FENOC FirstEnergy Nuclear Operating Company

Perry Nuclear Power Plant 10 Center Road Perry, Ohio 44081

William R. Kanda Vice President - Nuclear 440-280-5579 Fax: 440-280-8029

August 28, 2003 PY-CEI/NRR-2730L

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

Perry Nuclear Power Plant Docket No. 50-440 Inservice Inspection Summary Report

Ladies and Gentlemen:

In accordance with the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code, Section XI, "Inservice Inspection", 1989 Edition, Article IWA-6000, the ninth Inservice Inspection Summary Report for the Perry Nuclear Power, Plant is enclosed. This report documents the inservice examination activities conducted from return to commercial operation from the eighth refueling outage until the completion of the ninth refueling outage.

If you have questions or require additional information, please contact Mr. Vernon K. Higaki, Manager-Regulatory Affairs, at (440) 280-5294.

Very truly yours,

for William R. Kanda

Enclosure

cc: NRC Region III Administrator NRC Resident Inspector NRR Project Manager Authorized Nuclear Inservice Inspector (ANII) State of Ohio

A047

Page 1 of 2

 $\mathcal{L}_{\mathcal{A}}$ 

## FORM NIS-1 OWNERS REPORT FOR INSERVICE INSPECTIONS 1

As required by the provisions of the ASME Code Rules

1. Owner	FirstEnergy Nuclear Operating Company, 10 Center Road, Perry, OH 4408			
	(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 Serv	vice Date <u>11/18/87</u> 6. National Board Number for Unit <u>N/</u>	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	1 er 15
Rx Vessel	GE/A&ES	1B13	1 <b>B13</b> (2010) - 2010 - 2010	64077
Nuclear Boiler System	GE/A&ES	1B21	1B21	: 64084
Nuclear Boiler System	Pullman Power Products	1B21	3 <b>1B21</b> 5.55 (1996)	<u>a</u> 109
Reactor Recirculation System	GE/A&ES	1B33	s	64076
Reactor Recirculation System	Pullman Power Products	1B33	1B33 constant Down	
CRD Hydraulic Control System	Pullman Power Products	1C11	.1C11.7	) (. 92
Standby Liquid Control	Pullman Power Products	1 <b>C41</b>	`1 <b>C</b> 41	108
Containment Atmosphere Monitoring	Johnson Controls	1D23-0064-F	1D23	
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	
Leak Detection System	Johnson Controls	1E51-0068-F	1E31	15
MSIV Leakage Control System	Pullman Power Products	1E32	() 1E32[〕 -	1104
Reactor Core Isolation Cooling System	Pullman Power Products	1E51	1E51	<u>84</u> →
	heats in form of lists sketches or drawing		TE ANA	

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

	en e
1. Owner	FirstEnergy Nuclear Operating Company, 10 Center Road, Perry, OH 44081
	(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. Commercia	al Service Date 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	1P <u>1</u> 1	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	-1 <u>P</u> 87	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

10 Center Road

Perry, Ohio 44081

•

.

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 - November 17, 2008
INSPECTION PERIOD:	Second (Nov 18, 2001 - Nov 17, 2005)
REFUELING OUTAGE:	RF09
DOCUMENT COMPLETED:	August 27, 2003

#### ABSTRACT

•

Perry Nuclear Power Plant (PNPP) Unit #1 was shutdown for approximately eight weeks to refuel the reactor vessel [Refueling Outage 9(RFO9)] and perform plant maintenance commencing April 5, 2003. 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, that were performed in accordance with the schedules within PNPP's Inservice Examination Program Plan (ISEP), Revision 7.

There were no reactor vessel weld or nozzle examinations performed during the operating cycle or during this refueling outage.

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, for the first time, application of Risk Informed ISI (reference Relief Request IR-049). No reportable indications were identified by any of these examinations.

In-vessel examinations consisted of the required Code visual examinations along with augmented visual examinations of the core spray piping and headers, jet pump assemblies, low pressure core injection lines, feedwater spargers, shroud head stud assembly modifications (SHSAMs), and selected Intermediate Range Monitor, Source Range Monitor, and Local Power Range Monitor dry tubes. Ultrasonic examinations were also performed on the jet pump hold down beams. The augmented examinations were primarily conducted in accordance with the Boiling Water Reactor Vessel and Internals Project (BWRVIP) inspection quidelines. During performance of the ASME Category B-N-1 visual examination of the accessible reactor vessel interior surfaces, deposits of very hard materials were identified on the stainless steel cladding of the upper regions of the vessel interior adjacent to the Main Steam nozzles. The deposits were later found to be located on corresponding areas of the Steam Dryer. The deposits were documented in Condition Report 03-01995 and evaluated as acceptable for continued operation under the condition report's root cause evaluation. The visual examinations of the SHSAMs identified excessive wear on the antirotation pins. The wear was documented in Condition Report 03-02831 and evaluated as operable through the next refueling outage.

Other than described above, there were no reportable indications.

RFO9 was the first refueling outage of the second Inspection Period within Perry's second 10-Year inservice Inspection Interval. With the completion of the Cycle 9 and RFO9 examinations, approximately 50% of the examinations scheduled for the second period are done. The remaining second period examinations will be completed by the end of RFO10. Cycle 9 and RFO9 examinations resulted in a complete and acceptable program in that all indications were evaluated for acceptance in accordance with ASME Section XI, IWA-3000 and all required corrective actions and/or evaluations were completed.

, -

a ser a ser a

## CONTENTS

## PAGE

<pre>2.0 REFUELING OUTAGE DURATION</pre>		4
<pre>4.0 INSPECTION 5.0 CERTIFICATIONS 5.1 Personnel 5.2 Equipment and Materials Thermometers</pre>		4
5.0 CERTIFICATIONS		4
5.1 Personnel 5.2 Equipment and Materials Thermometers Magnetic Particle Equipment		4
5.2 Equipment and Materials Thermometers Magnetic Particle Equipment		4
Thermometers Magnetic Particle Equipment		4
Magnetic Particle Materials Dye Penetrant Materials Ultrasonic Flaw Detectors Ultrasonic Couplants Transducers		666667
6.0 CALIBRATION STANDARDS		7
7.0 PROCEDURES AND INSPECTION PLANS		7
8.0 RELIEF REQUESTS		8
9.0 SCHEDULE CHANGES		10
10.0 EXAMINATION SUMMARY RESULTS		11
11.0 NIS-2/NR-1		12
APPENDICES		
<ul> <li>A. CYCLE 9 &amp; RFO9 EXAMINATIONS RESULTS SUMMARY</li> <li>Cycle 9 &amp; RFO9 Scheduled Inservice Examinations</li> <li>Cycle 9 &amp; RFO9 Preservice Examinations</li> </ul>		17 51
B. CYCLE 9 & RFO9 NIS-2/NR-1 FORMS		
LAST PAGE	2	209

n ar y

···· ·

#### 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 (RFO) 8 through the completion of RFO9.

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 RFO9 from April 5, 2003 to May 31, 2003. The plant returned to commercial operation on May 31, 2003, at 00:53 a.m. 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-416-1, N-457, N-460, N-461, N-491, N-498-1, N-509, N-522, N-524, N-546, N-578 as applied in PNPP's Risk-Informed Class 1 Piping program, N-623, and N-627.

## 4.0 INSPECTION

Inspection activities were conducted by Authorized Nuclear Inservice Inspection personnel from Factory Mutual Insurance Company and 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 9 operations and RFO9. 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's Quality Assurance Section 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 9 operations and RFO9:

Name	PIN	UT	PT	MT	VT
Anderson, M.	A7814	NA	NA	NA	II++
Andrie, B.B. Stratter	A3521	NA	NA	NA -	• <b>II</b> +
Askew, D. Bevan, J. Barrise	A9185	NA	NA	NA	II
Bevan, J. Barrise Hit	88212 B8212	NA	II		II
Bryant, D	B2224	II	NA	NA	NA
Caulder, SR. Street	C6928	NA	NA	NA	11++
Dame, R.	D3235	NA	NA	NA	II+
Erbacher, L. Charles	E0936	NA	NA	NA	II
Frindy, W.	F6420	NA	III	III	III
Ginder, ST. B. S. C. S.	<b>G8312</b>	<b>II**</b>	II		NA
Granger, D.	G2186	NA	NA	NA	II++
Harris, S. S. Andrews	65 H8634	NA	NA	NA	:I1+++
Hofer, T.	H8104	NA	NA	NA	III
Jasken, R.	J4369	II** .	II	II	NA
Jopko, S.	J9965	NA	NA	NA	II
Jopko, S. Joyce, A.	3 <b>38579</b>	NA	NA	NA	II++
Kackley, P.	K2715	NA	NA	NA	II++
Knopsider, D.	K2975	NA	NA	NA	III
Kuester, C.	K9472	NA	NA	NA	II+
Kuntz, M.	K4858	NA	NA	NA	HIH: ST
Lindquist, D. Leach, M.	L5838	NA	II	II	II
Leach, M. Contraction	M2617	NA	NA CONTRACT	NA	II+++
Lynch, N.	L3427	NA	NA	NA	II+
Messenger, J.	M0254	NA	NA	NA	III
Miller, M. Jr.	M8499	NA	NA	NA	II+++
Miller, M. Sr.	M0198	NA	NA	NA	III
Munson, D.	M8099	III**	III	III	NA
Murray, K.	M3018	NA	NA	NA	II+ 🛸
Musgrove, F.	M7102	NA	NA	NA	II+++
Peterson, M. and A.		NA	NA	NA	II+
Portmann, R.	P6096	NA	III	III	III
Reaves, L.	R3514	NA	NA Priver	NA	III
Richardt, J.	R5641	NA	NA	NA	II+
Rowland, D.		NA	<b>NA</b> SSEE TO	NA	II++ 🦂
Schlortt, H.	S8543	III**	III	III	NA
Seman, S. Marker	≥ <b>≥S6347</b> 2002	NA	NA	NA	II+
Shinke, W.	S9502	NA	II	II	NA
Snyder, S.	S0392	II**	$[\mathbf{I}\mathbf{I}_{i}] \in [\mathbf{I}_{i}]$	II	NA
Tepsick, M.	T9426	NA	NA	NA	III
Vickerman, D. Starter	V8231	NA	<b>NA</b> sate of	NA	:II++ ::
Woodyard, S.	W6061	NA	II	II	II
Wirtz, C.	≥⊴≣W9385	NA	NA Second	NA	III

## ISI NDE PERSONNEL

+ - Limited to VT-2 only

++ - Limited to in-vessel VT-1 and VT-3 examinations only +++ - Limited to VT-3 only

+++ - Limited to VT-3 only \*\* - PDI qualified personnel for manual and/or automated UT

. . -- . . • ...• • ...• ····· automore in a 

. .

. 2

## 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 9 operations and RFO9:

## THERMOMETERS

ر بر ۲۰۰ میں

Manufacturer	Model No.	PNPP M&TE No. ARE
OMEGA	450 Digital	L70M0019F
OMEGA	450 Digital	L70M0019H
	27:450 Digital	L70M0019J

#### MAGNETIC PARTICLE EQUIPMENT

Manufacturer	Model No.	PNPP MGTE No.
Parker maker in	B-300 AC Yoke	N/A (PAR ACMT 006)

#### MAGNETIC PARTICLE MATERIALS

Manufacturer	Type	Batch No.
Magnaflux	8A Red Powder	94B029

#### DYE PENETRANT MATERIALS

• • •

; •

12 2 2 2 \*

Cleaner Hast	Penetrant	Developer
SKC-S 00K03K	SKL-SP 01A15K	<u> (1895) SKD-S2 (201A02K) (1895)</u>

#### ULTRASONIC FLAW.DETECTORS

Manufacturer	Model	Serial No.	
· · ·	· · · ·		
Stavely Stavely	SONIC-136P	136P991A071181	
Stavely	SONIC-136P	1367661	
Stavely* Stavely*	SONIC-137P	B02503	

\* - Framatome Scope used for remote Jet Pump Beam UT exams

t might • . ا سو بافند. · · · · • .. Sector 1 ور کو در در ور کو در در معرف جری و ا

.

. .

## ULTRASONIC COUPLANTS

. .. • • •

Manufacturer		Batch No. Stable A	
	··- **		
Sonotech Seaters	<b>Ultragel.II</b>	92031	
Sonotech	Ultragel II	95325	

## TRANSDUCERS

. \* \* \_

			• <u>1</u> 7		
Manuf.				Freq.	Ser No.
GE Manual Exa	ms: And the		编制。它的推	和自己的现在分词	or and the second
KB Aerotech	Comp-G	.250″ Dia.	45°	5.0 MHz	00XBT3
KB Aerotech	Comp-G	.375" Dia.	45°	1.5 MHz	00HJKC
KB Aerotech	Comp-G	.375" Dia.	45°	2.25 MHz	00BV5T
KB Aerotech	Comp-G	.375″ Dia.	45°	2.25 MHz	00HR01
KB Aerotech	Comp-G	.375" Dia.	60°	2.25 MHz	00HR01
KB Aerotech	Comp-G	.375" Dia.	45°	5.0 MHz	00X425
KB Aerotech	Comp-G	.500" Dia.	45°	1.5 MHz	00MPX7
KB Aerotech	F-HP	.500" Dia.	0°	2.25 MHz	00X9C7
KB Aerotech	Comp-G	.500" Dia:	`45°	2.25 MHz	00L1KM
KB Aerotech	Comp-G	.500" Dia.	45°	2.25 MHz	00V4B0
SwRI	NA	.500" Dia.	25°L	2.25 MHz	3567
RTD	TRL2-A	2(8x14)mm 🗧	45°RL	2.0 MHz	01-109
FRAMATOME Ren	ote Jet P	ump Beam Exar	n <b>s:</b> ////////////////////////////////////	이 아이는 소문이 같이?	Alter and the A
Panametrics	IMMERSION	.500" Dia.	0°	2.25 MHz	35245
Panametrics	IMMERSION	.500" Dia.	0°.	2.25 MHz	35248
Panametrics	IMMERSION	.500" Dia.	0°	2.25 MHz	35250
Panametrics	IMMERSION	.500" Dia.	.0°.	2.25 MHz	35252
Panametrics	IMMERSION	.500" Dia.	0°.	2.25 MHz	35253
Panametrics	IMMERSION	.500" Dia.	0°	2.25 MHz	35298

#### 6.0 CALIBRATION STANDARDS

Ultrasonic calibration standards used for ISI related work activities during Cycle 9 operations and RFO9 are as listed below:

• • . .

· •

. .

PY-6-80-CS	PY-12-100-CS	PY-18-40-CS -	PY-24-40-CS
PY-6-120-CS	PY-12-120-CS	PY-18-STD-CS	PY-24-XX1-SS
PY-8-100-CS	PY-12-CLAD-SS	PY-20-80-CS	PY-26-XX2-CS
PY-10-80-CS	PY-12-PEN-CS-2	PY-20-120-CS	PY-127-1-RPV
PY-12-40-CS	PY-12-XX1-CS-F	PY-20-XX1-CS-F	PY-128-1-RPV
PY-12-80-CS	PY-12-XX1-SS	PY-22-XX1-SS	Framatome JP Beam

## 7.0 PROCEDURES AND INSPECTION PLANS

The examination procedures and inspection plans used during Cycle 9 operations and RFO9 were as follows:

Number	Rev	Contraction of the second s
		動物を発展する いたため 時代の かんしょう ション・パイ かめ ション・キャ
NQI-0941	R8	Liquid Penetrant Examinations
NQI-0942	R6	Magnetic Particle Examinations
NQI-1042	R8	Visual Examinations (VT-1,2,3)
NQI-0944	R6	Ultrasonic Examinations
Inspection Pla	ns used	with NQI-0944: The factor of a second s
NDE-002	R5	Ultrasonic Instrument Linearity Verification
NDE-008	R8	Manual Ultrasonic Examination of Ferritic
		Piping Welds
NDE-017	R4	Ultrasonic Examinations of Corrosion
		Resistant Clad (CRC) and Dissimilar Metal
		Piping Welds
NDE-018	R7	Procedure for Ultrasonic Examination of
		Stainless Steel (Austenitic) Piping Welds
NDE-019	R4	Ultrasonic Examination of Flued Head
		Penetration Attachment Welds
Framatome ANP	NDE Pro	cedures: Charles and a second s
54-ISI-159-04	R4	Procedure for the Remote Ultrasonic
		Examination of Jet Pump Hold Down Beams
54-ISI-363-02	R2	Remote Underwater In-Vessel Visual
		Inspection of Reactor Vessel Internals,
		Components, and Associated Repairs
RELIEF REOUESTS		

, .

## 8.0 RELIEF REQUESTS

Due to geometric, metallurgical, and physical limitations, some of the items scheduled for examination during RFO9 received partial examinations. Within the limitations, examinations were completed to the greatest extent practical. For those 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-002 R-1	Reactor Recirculation	Partial Exams	B-G-1	B6.180
IR-007 R-1	Residual Heat Removal Low Pressure Core Spray High Pressure Core Spray Reactor Core Isolation- Cooling Feedwater Reactor Water Cleanup Main Steam	Partial Exams	B-K-1	B10.10
IR-009 R-1	Reactor Pressure Vessel	Partial Exams	в-о	B14.10

· · · · ·

## RELIEF REQUESTS CONTINUED

	SYSTEM	· · · · · · · · · · · · · · · · · · ·	CATEG	
IR-012 R-2	Main Steam Residual Heat Removal High Pressure Core Spray Feedwater	Partial Exams	C-C	C3.10 C3.20
IR-013 R-1	High Pressure Core Spray Low Pressure Core Spray Residual Heat Removal	No Exams	C-G	C6.10
IR-015 R-1	Reactor Water Cleanup Residual Heat Removal Low Pressure Coolant- Injection	Partial Exams	c-c	C3.20
IR-018 R-1	Residual Heat Removal	Partial Exams	B-K-1	B10.10
IR-019 R-1	Control Rod Drive Residual Heat Removal High Pressure Core Spray	Partial Exams	C-C	C3.20
IR-021 R-4	Main Steam Emergency Closed Cooling Emergency Service Water	No Exams	D-B	D2.20
IR-023 R-1	All with Snubbers	Alternate Sampling Plan	Tech- Spec	N/A
IR-024 R-1	Reactor Pressure Vessel	Partial Exams	B-F	B5.10
IR-025 R-1	Main Steam	Alternative Exams	B-K-1	B10.10
IR-026 R-1	Main Steam Feedwater	Alternative Exams	C-C	C3.20
IR-027 R-1	Standby & HPCS Diesel Fuel Oil	Alternative Exams	D-B	D2.20
IR-029 R-1	Reactor Recirculation	Alternate Weld Selection	B-J	B9.11
IR-030 R-1	Reactor Pressure Vessel	Alternate Exam for Circ. Shell Welds	B-A	B1.11
IR-032 R-0	Containment	Substitute App J test for VT-3	E-D	E5.10 E5.20
IR-033 R-0	Containment	Alternate Personnel Qual	N/A	N/A
IR-034 R-0	Containment	Inspect new coating IAW coating program	N/A	N/A
IR-035 R-0	Containment	Pre-removal coating inspection IAW coating program	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	В-Н	B8.10

9

· · · · ·

		•		
RR NO/REV	SYSTEM	TYPE RELIEF	CATEG	ITEM NO
IR-043 R-0	Reactor Water Cleanup	Alternate Categorization	B-M-1	B12.30
IR-044 R-0	Reactor Vessel	Use of Code Case N-627	B-G-1	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
PT-001 R-1	Various non-isolable (from the RPV Boundary) Class 2 Components	Alternate System and Inservice Tests	С-н	C7.30 C7.70
PT-006 R-1	All Pressure Retaining Components within the ISI Boundary	Use of Code Case N-546	B-P C-H D-A D-B D-C	All for Press. Testing
PT-007 R-1	Class 3 Safety Relief Valve Discharge Piping	Alternate Hydrostatic Test	D-A	D1.10

#### RELIEF REQUESTS CONTINUED

Notes:

 Relief Requests IR-016, IR-017, IR-022, and PT-003 were withdrawn in the 1<sup>st</sup> Inspection Interval; IR-004, IR-005, IR-006, IR-008, IR-010, IR-011, IR-014, IR-020, IR-028, IR-031, PT-002, PT-004 and PT-005 were withdrawn in the 2<sup>nd</sup> Inspection Interval; and IR-036, IR-047 and PT-008 were withdrawn without ever being approved.

2. For those Cycle 9 and RFO9 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 RFO9 to facilitate the examinations, or to account for unforeseen physical or schedule interference's, or radiological conditions. These changes differ from the schedule in Revision 7 of PNPP's Inservice Examination Program (ISEP).

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

MARK NO.	DESCRIPTION AND REASON FOR CHANGE
1B13-SHSAM	Added VT-3 examination of 16 Shroud Head Stud Assembly Modification (SHSAM) assemblies. The exam was performed to check the retainer anti-rotational/ locking pins. The exams were added to RFO9 as a result of the Operational Experience Review of OE 14917 that was performed under CR 02-04534.

1. 2

#### SCHEDULE CHANGES CONTINUED

MARK NO. WARK	DESCRIPTION AND REASON FOR CHANGE
1B13-JPRS3-P11/P12	Added EVT-1 examinations of these
1B13-JPRS3-P13/P14	components to RF09. These are the Jet
1B13-JPRS3-P15/P16	Pump riser to transition piece welds
1B13-JPRS3-P17/P18	(BWRVIP No. RS-3) for the Recirculation B
1B13-JPRS3-P19/P20	Loop risers within the downcomer region
1813-07835-2197220	of the vessel. Within the ISEP, these
1	exams were scheduled for period 3, which only includes RF011. During participation
	in an INPO BWRVIP Review Visit of River
	Bend, it was recognized that these exams
	should be scheduled sooner in order to
	meet the intent of BWRVIP-41. As such,
1	these 5 welds were added to the period 2
	RFO9 scope (see below for compensatory
	deletions).
1B13-JPREW-P1/P2	Delete EVT-1 examination of these
1B13-JPREW-P3/P4	components. These are the Jet Pump riser
1B13-JPREW-P5/P6	thermal sleeve to elbow and elbow to
1B13-JPREW-P7/P8	riser welds (BWRVIP No.s RS-1 and RS-2) for the Recirculation A Loop risers
1B13-JPREW-P9/P10	within the downcomer region of the
	vessel. Within the ISEP, these exams are
	scheduled for period 2, which includes
	RF09 and RF010. During participation in
	an INPO BWRVIP Review Visit of River
	Bend, it was recognized that these exams
	could be scheduled farther out in time
	and the BWRVIP requirements would still
	be met. As such, these 10 welds are being rescheduled to RFO10 to compensate
	for the In-Vessel Visual Inspections
	(IVVI) that is being added to the RFO9
	scope to enhance compliance with BWRVIP-
	41 and as a result of recent OE reviews.
1E12-0856	Substitute ultrasonic examination of
	another weld for this weld. This weld
	was a new selection under the Risk-
	Informed ISI selection process. Upon
1	attempting to perform the exam in RF09,
	it was determined that the weld was buried within a penetration boot seal.
	As such, weld 1E12-0854 was substituted
	in its place. Weld 1E12-0854 was able to
	be substituted without any affect on the
	Risk-Informed program, as submitted to
	the NRC via Inservice Examination Relief
	Request IR-049, because it was within the
	same risk segment of piping and the
	submittal only identified the number of welds for the different risk segments not
	the actual weld numbers.
	the actual weld humbers.

## 10.0 EXAMINATION SUMMARY RESULTS

RFO9 was the third refueling outage of Perry's second 10-Year Inservice Inspection Interval and it marked the first of two outages for the second inspection period. With the completion of the Cycle 9 and RFO9 examinations, approximately 50% of the examinations scheduled for the second period are complete. The

, . . .

remaining second period examinations will be completed by the end of RFO10.

Cycle 9 and RFO9 examinations resulted in a complete and acceptable program in that all indications were evaluated for acceptance in accordance with ASME Section XI, IWA-3000 and all corrective measures or evaluations were completed.

Appendix "A" is a computer-generated summary of the Cycle 9 and RFO9 examination results. Component identifications (Mark Nos.) and order of appearance may differ slightly from that listed in Revision 7 of PNPP's Inservice Examination Program. The differences are to accommodate the database soft-ware 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:

SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS :	2 <b>PG</b> - 2
	Reactor	(1B13) System Cycle 9 & RF09 Reports:		
1B13-037	1B13-D0008	Replaced 22 CRDMs and their capscrews	1	58
1B13-038	1B13-D0008	Replaced 8 capscrews of CRDM 22/35	1	104
1B13-039	1B13-D0008	Replaced 3 CRDMs and their capscrews	1	105
	Main Steam	(1B21) System Cycle 9 & RF09 Reports:		
1B21-331	1B21	Cut capped and abandoned in place outboard MSIV B-loop packing leak-off line	1	112
1B21-332	1B21	Cut capped and abandoned in place outboard MSIV D-loop packing leak-off line	1	113
1B21-333	1821	Cut capped and abandoned in place outboard MSIV C-loop packing leak-off line	1	114
1B21-334	1B21	Cut capped and abandoned in place outboard MSIV A-loop packing leak-off line	1	115
1B21-335	1B21-G7071	Replaced E-Systems hydraulic snubber with like snubber	1	116
1B21-337	1B21-F0041B	Replaced SRV with like SRV	1	118
1B21-338	1B21-F0041D	Replaced SRV with like SRV	1	120
1B21-339	1B21-F0041F	Replaced SRV with like SRV	1	122
1B21-340	1B21-F0041K	Replaced SRV with like SRV	1	124
1B21-341	1B21-F0047B	Replaced SRV with like SRV	1	126
1B21-342	1B21-F0047D	Replaced SRV with like SRV	1	128
1B21-343	1B21-F0047F	Replaced SRV with like SRV	1	130
1B21-344	1B21-F0047H	Replaced SRV with like SRV	1	132
1B21-345	1B21-F0051B	Replaced SRV with like-SRV	1	134

#### NR-1/NIS-2 FORMS

## NR-1/NIS-2 FORMS CONTINUED

SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS	PG
-315/NO	ALCONTRE 1 MO . HAMMED	COPPENDE DE CRIFTION COPPENDS 28.000 200	CIMICO	10
1B21-346	1B21-F0051D	Replaced SRV with like SRV	1	136
1B21-347	1B21-F0041C	Replaced SRV with like SRV	1	138
1B21-348	1B21-F0032A	Removed and reinstalled test connection on side of valve	1	140
1B21-349	1B21-F0002	Replaced 2" globe valve with similar valve made of different materials	1	141
1B21-350	1B21-F0001	Replaced 2" globe valve with similar valve made of different materials	1	143
1B21-351	1B21-F0022C	Reworked valve and replaced bolting	1	145
	Bongton Roging	lation (1B33) System Cycle 9 & RFO9 Reports	<u> </u>	
1833-114	1B33-G7066A	Replaced E-Systems hydraulic snubber	1	146
1833-114	1833-G7068A	with like snubber Replaced E-Systems hydraulic snubber	1	
		with like snubber		148
1B33-116	1B33-G7065A	Replaced E-Systems hydraulic snubber with like snubber	1	150
1B33-117	1B33-G7070A	Replaced E-Systems hydraulic snubber with like snubber	1	153
1B33-118	1B33-G7069A	Replaced E-Systems hydraulic snubber with like snubber	1	156
1B33-119	1B33-G7067A	Replaced E-Systems hydraulic snubber with like snubber	1	159
1B33-120	1B33-G7067A	Replaced E-Systems hydraulic snubber piston rod assembly with different size assembly	1	161
		cive (1C11) System Cycle 9 & RF09 Reports:		
1C11-035	1C11-F163A	Small bore support removed for access and reinstalled	2	163
	1C41-F0004A	ntrol (0£1C41) System Cycle 9 & RF09 Report		1.64
1C41-030		Replaced primer/trigger assembly of explosive SQUIB valve	1	164
1C41-031	1C41-F0004B	Replaced primer/trigger assembly of explosive SQUIB valve	1	168
1C41-032	1C41-F0029B	Replaced 1x2" relief valve with like valve	2	172
1C41-033	1C41-F0004B	Replaced primer/trigger assembly of explosive SQUIB valve	1	174
		emoval (1E12) System Cycle 9 & RFO9 Reports		
1E12-270	1E12	Installed ¾" passive vent line downstream of check valve 1E12-F0042C	2	178
1E12-271	1E12-H0026	Replaced load stud and jam nut of snubber following testing .	1	179
1E12-272	1E12-H0386	Replaced PSA mechanical snubber with Lisega hydraulic snubber	2	180
1E12-273	1E12-H0769	Replaced PSA mechanical snubber with Lisega hydraulic snubber	2	181
1E12-274	1E12-H0410	Replaced load pin of snubber following testing	2	182
1E12-275	1E12-F0064C	Replaced gate of 6" gate valve	2	183
1E12-276	1E12-F0055A	Replaced 4" relief .vavle with like valve	2	184
1E12-277	1E12-F0063B	Replaced 8" check valve with like valve	2	186
1E12-278	1E12-D0003A	Replaced 18" orifice plate with like plate	2	188

13

• • ••

.

·

. • • ,

-

# NR-1/NIS-2 FORMS CONTINUED ••••

SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS	· · · PG
		e Spray (1E22) System Cycle 9 & RF09 Repor		100
1E22-054	1E22-H0034	Replaced PSA mechanical snubber with like snubber	2	189
1E22-055	1E22-H0032	Replaced PSA mechanical snubber with like snubber	2	191
1E22-056	1E22-D0005	Replaced 12" orifice plate with like	2	193
		plate		
		ntrol (1E32) System Cycle 9 & RFO9 Reports		
1E32-104	1E32-H0137	Removed supports from small bore piping	2	194
	1E32-H0138	that was previously abandoned		
	1E32-H0139 1E32-H0140			
	1E32-H0140 1E32-H0141			
	1E32-H0141			
	1E32-H0142 1E32-H0152			
	1E32-H0152	、 、 、 · ·		
	1E32-H0154	•		
	1E32-H0164	•		
	1E32-H0165			
	1E32-H0167	• • •		
	1E32-H0230			
	1E32-H0231			
	1E32-H0233	· · · ·		
	1E32-H0234			
	1E32-H0235	an an star ann an star Rither an star		
	1E32-H0237	- ···		
	1E32-H0238			
	1E32-H0240	- ·		
	1E32-H0243	•		
	1E32-H0244			
	1E32-H0245			
	1E32-H0246			
	1E32-H0247			
	1E32-H0248			
	1E32-H0250			
	1E32-H0251			
	1E32-H0270			
Basa	ter Coro Teoloti	on Cooling (1E51) System Cycle 9 & RF09 Rep		
1E51-124	1E51-F0011	Replaced 6" Duo check valve with like		195
1851 124	1851 10011	valve	2	170
1E51-125	1E51-C0001	Design temperature limit of pump	2	196
		modified through engineering evaluation		
1E51-126	1E51-H0156	Replaced PSA mechanical snubber with	2	198
		like snubber	_	
1E51-127	1E51-H0110	Replaced PSA mechanical snubber with like snubber	2	200
1E51-128	1E51-H0111	Replaced PSA mechanical snubber with like snubber	2	202
1E51-129	1Н22-Н1915	Replaced PSA mechanical snubber with like snubber	2	204
1E51-130	1E51-F0066	Replaced disk of 6" check valve	1	205
1E51-131	1B13-D0003	Replaced bolting on head spray tee	_ 1	207
		Racks (1H22) System Cycle 9 & RF09 Reports		
1H22-004	1H22-H0389	Replaced PSA Mechanical snubber with	2	208
		like snubber		
		<u></u>		
		· · · · · · · · · · · · · · · · · · ·		
		and the second se		
		ʻ ty:		
		14		
		•		

14

••

#### NR-1/NIS-2 FORMS CONTINUED

SYS/NO. MPL NO. CLAS Combustible Gas Control (1M51) System Cycle 9 & RFO9 Reports: 1M51-026 1M51-H0124 Replaced PSA mechanical snubber with 2	PG
1NE1 006 1 1ME1 U0124   Deplered DCD mechanical crubber with	1
1M51-026         1M51-H0124         Replaced PSA mechanical snubber with         2           like snubber         1 <td>209</td>	209

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.

ي قو د مربو د م . • •... . . . ·. . - -... 

n Taribin Nak La Sala Ma

# APPENDIX A

# "CYCLE 9 & RFO-9 EXAMINATION RESULTS SUMMARY"

# INSERVICE INSPECTION SUMMARY REPORT

# FOR

# PERRY NUCLEAR POWER PLANT

# (PNPP)

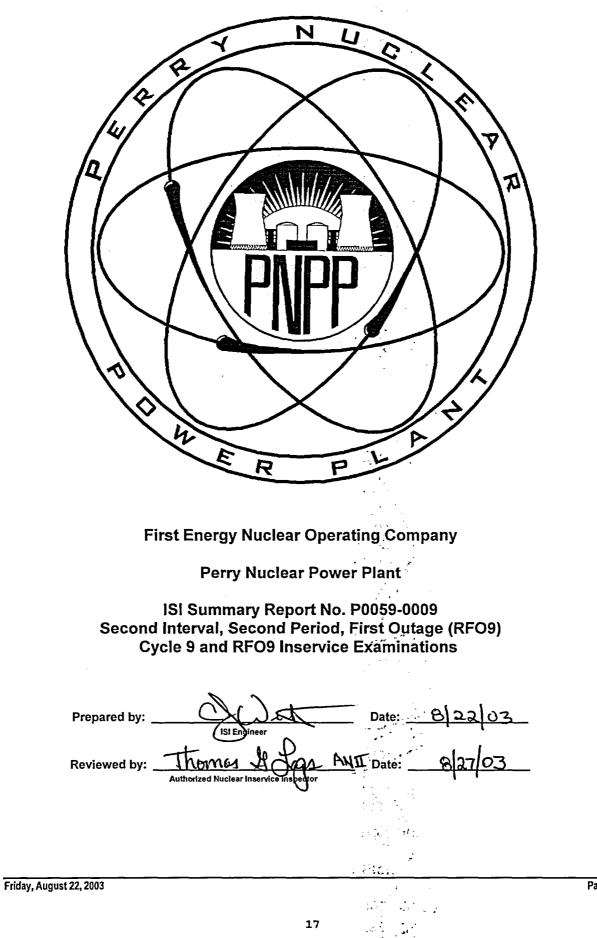
# UNIT 1

. . . .

. P. - -

. . . .

. . .



Page 1 of 34

	10115				Report No. P0059-000
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 6"N/A 305-006-103	B-G-2 B7.10	VT-1	1042-03-0031	SAT	Examined 1 new stud and 3 new nuts.
1B13-N8-B RPV HEAD SPRAY NOZZLE N8 TO FLANGE BOLTING 6' N/A 305-006-103	B-G-2 B7.10	VT-1	1042-03-0037	SAT	Examined 12 studs and nuts in place after head spray piping reassembly. See report 1042-03-0031 for replacement bolting exams.
1B13-CSHP-CW-P2 HP CORE SPRAY FLOW DIVIDER REDUCER WELDS 6" 120/40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSHP-CW-P3a HP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6* 40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSHP-CW-P5 HP CORE SPRAY UPPER RISER PIPE TO COUPLING 6* 40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSHP-CCW-P2 HP CORE SPRAY FLOW DIVIDER REDUCER WELDS 6* 120/40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSHP-CCW-P3a HP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6* 40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSHP-CCW-P5 HP CORE SPRAY UPPER RISER PIPE TO COUPLING 6* 40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSHP-PB HP CORE SPRAY PIPING BRACKETS (3) N/A N/A 305-006-114	X-A X3.12	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 80% due to proximity of the Core Spray piping.
1B13-CSLP-P1 LP CORE SPRAY THERMAL SLEEVE TO FLOW DIVIDER WELDS (2)	X-A X3.11	EVT-1	1Q800-03-021	SAT	EVT-1 coverage not possible due to the welds being at or inside the nozzle bore so just visually examined into the nozzle bore as best as possible.

Friday, August 22, 2003

.

Page 2 of 34

					Report No. 20059-0009
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-CSLP-CW-P2 LP CORE SPRAY FLOW DIVIDER REDUCER WELDS 6" 120/40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSLP-CW-P3b LP CORE SPRAY HORIZONTAL PIPE TO COUPLING 6" 40 305-006-113	X-A X3.11	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSLP-CW-P3a LP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6" 40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSLP-CW-P5 LP CORE SPRAY UPPER RISER PIPE TO COUPLING 6* 40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSLP-CW-P6 LP CORE SPRAY COUPLING TO LOWER RISER PIPE 6* 40 305-006-113	X-A X3.11	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSLP-CW-P4c LP CORE SPRAY LOWER RISER PIPE TO ELBOW 6° 40/120 305-006-113	X-A X3.11	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
1B13-CSLP-CW-P4d LP CORE SPRAY ELBOW TO SHROUD FLANGE 6* 120/40 305-006-113	X-A X3.11	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 90% due to proximity of the Core Spray piping.
1B13-CSLP-CCW-P2 LP CORE SPRAY FLOW DIVIDER REDUCER WELDS 6* 120/40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021		Coverage limited to appx. 60% due to proximity of the -Vessel wall.
1B13-CSLP-CCW-P3a LP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6* 40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021		. Coverage limited to appx. 60% due to proximity of the Vessel wall.
1813-CSLP-CCW-P5 LP CORE SPRAY UPPER RISER PIPE TO COUPLING 6° 40 305-006-113	X-A X3.10	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 60% due to proximity of the Vessel wall.
		_		۰.	

Friday, August 22, 2003

.

-----

Page 3 of 34

Report No. P0059-0009

.

t.

.

	ASME				Report No. P0059-000
D of Component Examined Description of Component Size - Sched ISI Dwg. No.	Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1813-CSLP-PB LP CORE SPRAY PIPING BRACKETS (3) N/A N/A 305-006-114	X-A X3.12	EVT-1	1Q800-03-021	SAT	Coverage limited to appx. 80% due to proximity of the Core Spray piping.
IB13-CSS-173-S2 CORE SPRAY SPARGER TEE TO SPARGER PIPE WELDS (2) 5 305-006-115	X-A X3.20	EVT-1	1Q800-03-040	SAT	Coverage limited to appx. 60% due to proximity of the Shroud wall.
IB13-CSS-173-S4 CORE SPRAY SPARGER PIPE TO END CAP WELDS (2) " 305-006-115	X-A X3.20	EVT-1	1Q800-03-040	SAT	Coverage limited to appx. 60% due to proximity of the Shroud wall.
IB13-CSS-173-SB CORE SPRAY SPARGER BRACKETS N/A N/A 305-006-116	X-A X3.22	VT-1	1Q800-03-040	SAT	Coverage limited to appx. 50% due to proximity of the CS Sparger.
IB13-CSS-187-S2 CORE SPRAY SPARGER TEE TO SPARGER PIPE WELDS (2) 305-006-115	X-A X3.20	EVT-1	1Q800-03-040	SAT	Coverage limited to appx. 60% due to proximity of the Shroud wall.
B13-CSS-187-S3ab CORE SPRAY SPARGER SPRAY IOZZLE WELDS (2 EA NOZZ) 305-006-115	X-A X3.21	VT-1	1Q800-03-040	SAT	Exam limited to the accessible areas of each of the spray nozzles due to the CS Sparger configuration.
B13-CSS-187-S4 CORE SPRAY SPARGER PIPE TO END CAP WELDS (2) • 305-006-115	X-A X3.20	EVT-1	1Q800-03-040	SAT	Coverage limited to appx. 60% due to proximity of the Shroud wall.
B13-CSS-187-SB CORE SPRAY SPARGER BRACKETS I/A N/A 305-006-116	X-A X3.22	VT-1	1Q800-03-040	SAT	Coverage limited to appx. 50% due to proximity of the CS Sparger.
B13-FWS EEDWATER SPARGERS I/A N/A 305-006-118	X-C X11.10	VT-3	1Q800-03-016	SAT	None.
		VT-1	1Q800-03-016	SAT	None.

Friday, August 22, 2003

Page 4 of 34

· · · ·

					Report No. P0059-0009
ID of Component Examined	ASME Category			·	
Description of Component Size - Sched ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-INTERIOR REACTOR VESSEL INTERIOR REGION N/A N/A 305-006-101	B-N-1 B13.10	VT-3	1042-03A-035	SAT	Direct visual of top head interior.
1B13-INTERIOR REACTOR VESSEL INTERIOR REGION N/A N/A 305-006-101	B-N-1 B13.10	VT-3	1Q800-03-015	UNSAT	Exam found unusual crud deposits on the upper (i.e., steam region) vessel ID cladding. Under CR-03-01995 the hard deposits were evaluated as acceptable for continued operation.
1813-IRM-16/13 IRM INSTRUMENT DRY TUBE B	X-A X2.10	VT-3	1Q800-03-078	SAT	Examined from two opposing quadrants to achieve full coverage.
N/A N/A 305-006-117					
1B13-IRM-16/53 IRM INSTRUMENT DRY TUBE A	X-A X2.10	VT-3	1Q800-03-078	SAT	Examined from two opposing quadrants to achieve full coverage.
N/A N/A 305-006-117					
1813-IRM-24/29 IRM INSTRUMENT DRY TUBE D	X-A X2.10	VT-3	1Q800-03-078	SAT	Examined from two opposing quadrants to achieve full coverage.
N/A N/A 305-006-117					
1813-IRM-24/37 IRM INSTRUMENT DRY TUBE C	X-A X2.10	VT-3	1Q800-03-078	SAT	Examined from two opposing quadrants to achieve full coverage.
N/A N/A 305-006-117				-	
1B13-JPA-P3/P4 JET PUMP NOZZLE TO MIXER ASSEMBLY	X-A X1.30	VT-3	1Q800-03-047	SAT	Exam found only light uniform coating of crud that was less than last refuel.
N/A N/A 305-006-126				s . st	
1B13-JPA-P13/P14 JET PUMP NOZZLE TO MIXER ASSEMBLY	X-A X1.30	VT-3	1Q800-03-047	SAT	Exam found only light uniform coating of crud that was less than last refuel.
N/A N/A 305-006-126				•	
1813-JPHDB-P1/P2 JET PUMP HOLD DOWN BEAMS (2)	X-A X1.10	UT	1Q800-03-087	NRI	Exam included UT of BB1 and BB2 areas supplemented by VT-1 of BB3 areas. See report 1Q800- 03-047 for VT-1 results.
N/A N/A 305-006-125				5. 25	
1B13-JPHDB-P3/P4 JET PUMP HOLD DOWN BEAMS (2)	X-A X1.10	UT	1Q800-03-087	NRI	Exam included UT of BB1 and BB2 areas supplemented by VT-1 of BB3 areas. See report 1Q800- 03-047 for VT-1 results.
N/A N/A 305-006-125				,•	U-U+I (UI V I+I TESUILS.

Friday, August 22, 2003

Page 5 of 34

. .

Desc	ription of	nt Examined Component - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	JPHDB-P5/ PUMP HOLD	P6 DOWN BEAMS (2)	X-A X1.10	UT	1Q800-03-087	NRI	Exam included UT of BB1 and BB2 areas supplemented by VT-1 of BB3 areas. See report 1Q800-
N/A	N/A	305-006-125					03-047 for VT-1 results.
							· ·
	JPHDB-P7/ PUMP HOLD	P8 DOWN BEAMS (2)	X-A X1.10	UT	1Q800-03-087	NRI	Exam included UT of BB1 and BB2 areas supplemented by VT-1 of BB3 areas. See report 1Q800-
N/A	N/A	305-006-125					03-047 for VT-1 results.
	JPHDB-P9/ VUMP HOLD	P10 DOWN BEAMS (2)	X-A X1.10	UT	1Q800-03-087	NRI	Exam included UT of BB1 and BB2 areas supplemented by VT-1 of BB3 areas. See report 1Q800-
N/A	N/A	305-006-125					03-047 for VT-1 results.
	JPHDB-P11 PUMP HOLD	/P12 DOWN BEAMS (2)	X-A X1.10	UT	1Q800-03-087	NRI	Exam included UT of BB1 and BB2 areas supplemented by VT-1 of BB3 areas. See report 1Q800-
N/A	N/A	305-006-125				ر منز به سر محسود	03-047 for VT-1 results.
	JPHDB-P13 PUMP HOLD	/P14 DOWN BEAMS (2)	X-A X1.10	UT	1Q800-03-087	NRI	Exam included UT of BB1 and BB2 areas supplemented by VT-1 of BB3 areas. See report 1Q800-
N/A	N/A	305-006-125					03-047 for VT-1 results.
	JPHDB-P15 UMP HOLD	/P16 DOWN BEAMS (2)	X-A X1.10	ហ	1Q800-03-087	NRI	Exam included UT of BB1 and BB2 areas supplemented by VT-1 of BB3 areas. See report 1Q800- 03-047 for VT-1 results.
N/A	N/A	305-006-125				-	
	JPHDB-P17 'UMP Hold	/P18 DOWN BEAMS (2)	X-A X1.10	UT	1Q800-03-087	NRI	Exam included UT of BB1 and BB2 areas supplemented by VT-1 of BB3 areas. See report 1Q800- 03-047 for VT-1 results.
N/A	N/A	305-006-125					
	JPHDB-P19 UMP HOLD	/P20 DOWN BEAMS (2)	X-A X1.10	UT	1Q800-03-087	NRI	Exam included UT of BB1 and BB2 areas supplemented by VT-1 of BB3 areas. See report 1Q800- 03-047 for VT-1 results.
N/A	N/A	305-006-125					
	JPIN-P3/P4 UMP INLET	WELDS (4)	X-A X1.80	EVT-1	1Q800-03-047	SAT	Coverage limited to appx. 40% by component geometry and camera access.
N/A	N/A	305-006-126				•.	·,
	jpin- <del>p</del> 5/p6 UMP inlet	WELDS (4)	X-A X1.80	EVT-1	1Q800-03-047	SAT	Coverage limited to appx. 50% by component geometry and camera access.
N/A	N/A	305-006-126				• 10	т. с
	· August 2			· · · · · · · · · · · · · · · · · · ·			

...

Report No. P0059-0009

۰.

.

Friday, August 22, 2003

.

Page 6 of 34

ي. م ما يتعد م

.

ID of Component Examined	ASME Category			. •	Report No. P0059-0009
Description of Component Size - Sched ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-JPIN-P9/P10 JET PUMP INLET WELDS (4)	X-A X1.80	EVT-1	1Q800-03-047	SAT	Coverage limited to appx. 40% by component geometry and camera access.
N/A N/A 305-006-126					
1B13-JPRS3-P11/P12 JET PUMP RISER PIPE TO TRANSITION PIECE WELD N/A N/A 305-006-126	X-A X1.71	EVT-1	<b>1Q800-03-047</b>	SAT	Coverage limited to appx. 50% by component geometry and camera access.
1B13-JPRS3-P13/P14 JET PUMP RISER PIPE TO TRANSITION PIECE WELD N/A N/A 305-006-126	X-A X1.71	EVT-1	1Q800-03-047	SAT	Coverage limited to appx, 50% by component geometry and camera access.
1B13-JPRS3-P15/P16 JET PUMP RISER PIPE TO TRANSITION PIECE WELD N/A N/A 305-006-126	X-A X1.71	EVT-1	1Q800-03-047	SAT	Coverage limited to appx. 50% by component geometry and camera access.
1B13-JPRS3-P17/P18 JET PUMP RISER PIPE TO TRANSITION PIECE WELD N/A N/A 305-006-126	X-A X1.71	EVT-1	1Q800-03-047	SAT	Coverage limited to appx. 50% by component geometry and camera access.
1B13-JPRS3-P19/P20 JET PUMP RISER PIPE TO TRANSITION PIECE WELD N/A N/A 305-006-126	X-A X1.71	EVT-1	1Q800-03-047	SAT	Coverage limited to appx. 60% by component geometry and camera access.
1B13-JPTW-P01 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-JPTW-P02 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-JPTW-P03 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-JPTW-P04 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.

Friday, August 22, 2003

.

ан сарана 1970 - Сарана 1970

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-JPTW-P05 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	UNSAT	Exam found .019" vessel side and .010" shroud side set screw gaps. However, the tack welds were intact and there was no sign of wedge wear. Under CR 03-02779 the gaps were evaluated as acceptable for continued operation.
1B13-JPTW-P06 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-JPTW-P07 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	UNSAT	Exam found .010" vessel side set screw gap. However, the tack welds were intact and there was no sign of wedge wear. Under CR 03-02779 the gaps were evaluated as acceptable for continued operation.
1B13-JPTW-P08 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-JPTW-P09 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-JPTW-P10 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-JPTW-P11 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-JPTW-P12 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	UNSAT	Exam found .010° vessel side set screw gap. However, • the tack welds were intact and there was no sign of wedge wear. Under CR 03-02779 the gaps were evaluated as acceptable for continured operation
1B13-JPTW-P13 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	UNSAT	Exam found .010" vessel side set screw gap. However, the tack welds were intact and there was no sign of wedge wear. Under CR 03-02779 the gaps were evaluated as acceptable for continured operation
1B13-JPTW-P14 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	UNSAT	Exam found .010" vessel side set screw gap. However, the tack welds were intact and there was no sign of wedge wear. Under CR 03-02779 the gaps were evaluated as acceptable for continued operation.
JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS		VT-3	1Q800-03-047	UNSAT	the tack welds were intact and there was no sign of wedge wear. Under CR 03-02779 the gaps were

- ... .

Friday, August 22, 2003

Page 8 of 34

.

415-12-5 116-116-

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-JPTW-P15 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	UNSAT	Exam found .020" vessel side set screw gap. However, the tack welds were intact and there was no sign of wedge wear. Under CR 03-02779 the gaps were evaluated as acceptable for continued operation.
1B13-JPTW-P16 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-JPTW-P17 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	UNSAT	Exam found .012" vessel side set screw gap. However, the tack welds were intact and there was no sign of wedge wear. Under CR 03-02779 the gaps were evaluated as acceptable for continued operation.
1B13-JPTW-P18 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-JPTW-P19 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	UNSAT	Exam found .010" shroud side set screw gap. However, the tack welds were intact and there was no sign of wedge wear. Under CR 03-02779 the gaps were evaluated as acceptable for continued operation.
1B13-JPTW-P20 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-3	1Q800-03-047	SAT	None.
1B13-LPRM-SAMP LPRM INSTRUMENT DRY TUBES 10% SAMPLE N/A N/A 305-006-117	X-A X2,11	VT-3	1Q800-03-078	SAT	Achieved 10% sample by examining LPRM's 16/17 and 48/17 from two quadrants (full coverage) and 16/25, 24/25, 40/41, 32/49 and 40/49 from one (half coverage).
1B13-LPCI-A61 LOOP A LPCI COUPLING PIPE WELDS (4) N/A N/A 305-006-124	X-A X8.10	EVT-1	1Q800-03-018	SAT	
1B13-LPCI-AST LOOP A LPCI COUPLING STRUT WELDS (3) N/A N/A 305-006-124	X-A X8.20	EVT-1	1Q800-03-018	SAT	None.
1B13-LPCI-A66 LOOP A LPCI SHROUD ATTACHMENT RING WELD N/A N/A 305-006-124	X-A X8.30	EVT-1	1Q800-03-018	SAT	None,

Friday, August 22, 2003

**N** .

د المحرد بعربینغ

.

.

Desc	ription of (	nt Examined Component - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13- SHRO	SHSAM	STUD ASY MOD 305-006-101	X-A X6.14	VT-3	1Q800-03-077	UNSAT	Exam found severe wear on the retainer pins of SHSAMs 2 and 8. Under CR 03-02831 the wear was evaluated as acceptable for continued operation.
	SRM-16/45 NSTRUMEN	IT DRY TUBE A	X-A X2.10	VT-3	1Q800-03-078	SAT	Examined from two opposing quadrants to achieve full coverage.
N/A	N/A	305-006-117					
	SRM-40/21 NSTRUMEN	NT DRY TUBE C	X-A X2.10	VT-3	1Q800-03-078	SAT	Examined from two opposing quadrants to achieve full coverage.
N/A	N/A	305-006-117				÷	
	0131 @ PE TO 28" F	PIPE	X-B X10.10	UT	0944-03-E050	NRI	ID geometry observed below recordable levels.
26"	1.321"	305-605-107					
						.'	
HEAD	0168-B VENT/POC ECTION BC 160	DL FLOOR FLANGE DLTING 305-605-106	B-G-2 B7.50	VT-1	1042-03-0038	SAT	Examined 8 studs and 16 nuts after head spray reassembly.
						· · '	
RPV U	)186-B IPPER HEA GE BOLTINO N/A	D SPRAY NOZZLE G 305-605-105	B-G-2 B7.50	VT-1	1042-03-0039	SAT	Examined 8 studs and 16 nuts after head spray piping reassembly. See report 1042-03-0033 for replacement bolting exams.
						ي. م	
RPV U	SE BOLTIN	D SPRAY NOZZLE 3 305-605-105	B-G-2 B7.50	VT-1	1042-03-0033	SAT	Examined 1 new stud and 2 new nuts.
4	N/A	303-003-103				•	
26" GL		,INTERNAL IPING NO. II) 305-605-103	B-M-2 B12.50	VT2	1042-03-0042		Examined valve internal surfaces upon disassembly due to LLRT failure.
						• •	
	-041B-B Olting, 12	2 EACH	B-G-2 B7.50	VT-1	1042-03-0021	SAT	Examined 12 existing inlet flange nuts of replacement vavle serial no. 160848.
10"	N/A	305-605-102				5. <b>†</b>	
	-0418-B OLTING, 12	PEACH	B-G-2 B7.50	VT-1	1042-03-0010	SAT	Examined 10 existing and 2 new inlet flange studs of replacement vavle serial no. 160848.
10"	N/A	305-605-102				<b>*</b> ***	
						5.0	
Friday	, August 22	2,2003		·····			Page 10 of 34

.

i

. 

)esc	ription of (	nt Examined Component - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks	. 1
B21-	F041C-B BOLTING, 12		B-G-2 B7.50	VT-1	1042-03-0007	SAT	Examined 11 existing and 1 new inlet flange stud of replacement vavle serial no. 160866.	-
)"	N/A	305-605-103				••		
	F041C-B 30lting, 12	2 EACH	B-G-2 B7.50	VT-1	1042-03-0014	SAT	Examined 12 existing nuts.	
)"	N/A	305-605-103						
	F041C-B 30lting, 12	2 EACH	B-G-2 B7.50	VT-1	1042-03-0025	SAT	Examined 12 new inlet flange washers for replacement valve serial no. 160866.	
)"	N/A	305-605-103						
	F041D-B Bolting, 12	2 EACH	B-G-2 B7.50	VT-1	1042-03-0002	SAT	Examined 10 existing and 2 new inlet flange studs of replacement valve serial no. 160886.	
)"	N/A	305-605-104				· · · · · · · · · · · · · · · · · · ·	<b>-</b> •	. 1
	F041D-B 30lting, 12	2 EACH	B-G-2 B7.50	VT-1	1042-03-0020	SAT	Examined 12 existing inlet flange nuts of replacement valve serial no. 160886.	
)"	N/A	305-605-104						
	F041F-B 30lting, 12	2 EACH	B-G-2 87.50	VT-1	1042-03-0019	SAT	Examined 12 existing inlet flange nuts of replacement valve serial no. 160889.	
•	N/A	305-605-102				n n L Tart e B		
	F041F-B BOLTING, 12	2 EACH	B-G-2 B7.50	VT-1	1042-03-0009	SAT	Examined 12 existing inlet flange studs of replacement valve serial no. 160889.	
•	N/A	305-605-102					· · ·	
	F041K-B SOLTING, 12	2 EACH	B-G-2 B7.50	VT-1	1042-03-0018	SAT	Examined 12 existing inlet flange nuts of replacement valve serial no. 160869.	
•	N/A	305-605-102				• •*		
	F041K-B IOLTING, 12	2 EACH	B-G-2 B7.50	VT-1	1042-03-0006	SAT	Examined 11 existing and 1 new inlet flange stud of replacement valve serial no. 160869.	,
•	N/A	305-605-102						
	F047B-B BOLTING, 12	2 EACH	B-G-2 B7.50	VT-1	1042-03-0004	SAT	Examined 12 existing inlet flange studs of replacement valve serial no. 160891.	
)"	N/A	305-605-102						

. . .

.....

-

Friday, August 22, 2003

Page 11 of 34

: المارين بالمامير

.

. .

,

ID of Component Examined Description of Component Size - Sched ISI Dwg. No. 1B21-F047B-B SRV BOLTING, 12 EACH		ASME Category			• • • •	Report No. P0059-0009	
		ASME Item No.	Exam Method	Exam Report No.	Status	Remarks	
		2 EACH	B-G-2 B7.50	VT-1	1042-03-0017	SAT	Examined 12 existing inlet flange nuts of replacement valve serial no. 160891.
10"	N/A	305-605-102					
	F047B-B BOLTING, 1	12 EACH	B-G-2 87.50	VT-1	1042-03-0026	SAT	Examined 12 new inlet flange washers for replacement valve serial no. 160891.
10"	N/A	305-605-102					
	F047D-B Bolting, 1	2 EACH	B-G-2 B7.50	VT-1	1042-03-0003	SAT	Examined 12 existing inlet flange studs of replacement valve serial no. 160896.
10"	N/A	305-605-104					
	F047D-B Bolting, 1	12 EACH	B-G-2 B7.50	VT-1	1042-03-0016	SAT	Examined 12 existing inlet flange nuts of replacement valve serial no. 160896.
10"	N/A	305-605-104					<b></b>
	F047F-B Bolting, 1	2 EACH	B-G-2 B7.50	VT-1	1042-03-0005	SAT	Examined 9 existing and 3 new inlet flange studs of replacement valve serial no. 160873.
10"	N/A	305-605-102					
	F047F-B Bolting, 1	2 EACH	B-G-2 B7.50	VT-1	1042-03-0015	SAT	Examined 12 existing inlet flange nuts of replacement valve serial no. 160873.
10"	N/A	305-605-102					·
	F047H-B 30lting, 1	2 EACH	B-G-2 B7.50	VT-1	1042-03-0023	SAT	Examined 12 existing inlet flange nuts of replacement valve serial no. 160870.
10"	N/A	305-605-104					
	F047H-B Bolting, 1	2 EACH	B-G-2 B7.50	VT-1	1042-03-0008	SAT	Examined 12 new inlet flange studs of replacement valve serial no. 160870.
10"	N/A	305-605-104					•
	F051B-B Bolting, 1	2 EACH	B-G-2 B7.50	VT-1	1042-03-0012	SAT	Examined 9 existing and 3 new inlet flange studs of replacement valve serial no. 160860.
10"	N/A	305-605-102					
	F051B-B BOLTING, 1	2 EACH	B-G-2 B7.50	VT-1	1042-03-0022	SAT	Examined 12 existing inlet flange nuts of replacement valve serial no. 160860.
10"	N/A	305-605-102					· · ·
							·

Friday, August 22, 2003

Page 12 of 34

والمراسب الموجد

Desc	ription of	ent Examined Component - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B21-F051D-B SRV BOLTING, 12 EACH			B-G-2 B7.50	VT-1	1042-03-0011	SAT	Examined 11 existing and 1 new inlet flange stud of replacement valve serial no. 160857.
10"	N/A	305-605-104					
1821-F051D-B SRV BOLTING, 12 EACH			B-G-2 B7.50	VT-1	1042-03-0013	SAT	Examined 12 existing inlet flange nuts of replacement valve serial no. 160857.
10"	N/A	305-605-104					
	G101A GUIDE (W	A) MPL 1B21G7030	F-A F1.G	VT-3	1042-03A-030	SAT	None.
26"	N/A	305-605-101					
		NUBBER (WA) 305-605-125	F-A F3.SN	VT-3	VT-03-0245/6	SAT	None.
INTEC	H0020-WA GRAL ATTA IANICAL SI N/A		D-Ac D1.20	VT-3	1042-03A-023	SAT	None.
	H0121 IOR (WA)		F-A F3.A	VT-3	1042-03A-020	SAT	None.
10"	N/A	305-605-129				<del>.</del>	-
INTEG		CHMENT ANCHOR	D-Ac D1.20	VT-3	1042-03A-021	SAT	None.
10"	N/A	305-605-129					:
	H0126 IANICAL SM	UBBER	F-A F3.SN	VT-3	VT-03-0491	SAT	
14"	N/A	305-605-129				÷	
	H0220 STRUT (W	A)	F-A F3.STm	VT-3	1042-03A-031	SAT	None.
10"	N/A	305-605-118					
INTEG		CHMENT RIGID	D-Ac D1.20	VT-3	1042-03A-032	SAT	None.
STRU 10"	T N/A	305-605-118					•
	/. August 2	2 2002					Page 13 of 3

.....

و مرد م ال المحرار . الر

Friday, August 22, 2003

•

· · · · ·

-

· . .

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-P122-WA @ P122 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD 26° 80 305-605-109	X-E X10.20	UT	0944-03-E055	IND	45 degree shear wave examination. Previously recorded indications observed at similar amplitude sweep positions and metal paths.
1B21-P122-WA @ P122 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD 26" 80 305-605-109	X-E X10.20	υτ	<b>0944-03-E056</b>	SAT .	25 longitudinal wave examination.
1B21-P122-WA @ P122 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD 26* 80 305-605-109	X-E X10.20	UT	0944-03-E054	IND	<ul> <li>0 degree examination. Previously recorded indications observed at similar amplitude sweep positions and metal paths.</li> </ul>
1B21-QUE-04-SP ANCHOR FOR QUENCHER FOR SRV FO41D (WA) N/A N/A 305-605-118	F-A F3.A	VT-3	1042-03A-034	SAT	None.
1B21-QUE-04-WA INTEGRAL ATTACHMENT QUENCHER ANCHOR, F041D N/A N/A 305-605-118	D-Ac D1.20	VT-3	1042-03A-033	SAT	None.
1B33-0003 22" PIPE TO ELBOW 22" .948" 305-602-102	R-A R3.ND	UT	0944-03-E047	NRI	ID geometry observed below recordable levels.
1B33-0003-D1 ELBOW SHORT SEAM, DOWNSTREAM 22".898".305-602-102	R-A R3.LS	UT	1Q800-03-012	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0003A. Reference Report No: 0944-03-E047.
1B33-0003-D2 ELBOW LONG SEAM, DOWNSTREAM 22" .898" 305-602-102	R-A R3.LS	υτ	1Q800-03-013	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0003A. Reference Report No: 0944-03-E047.
1B33-0003-U PIPE SEAM, UPSTREAM 22* .948* 305-602-102	R-A R3.LS	UT	1Q800-03-014	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0003A. Reference Report No: 0944-03-E047.
1B33-0003A 22" ELBOW TO PIPE	R-A R3.ND	UT	0944-03-E038	NRI	ID geometry observed below recordable levels.
22" .948" 305-602-102				1.1 <b>4</b>	

Friday, August 22, 2003

į

Page 14 of 34

ID of Component Examined Description of Component Size - Sched ISI Dwg. No. 1B33-0003A-D PIPE SEAM, DOWNSTREAM			ASME Category	-		Report No. P0059-0009		
			ASME Item No.	Exam Method	Exam Report No.	Status	Remarks	
			R-A R3.LS	UT	1Q800-03-009	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0003A. Reference Report	
22"	.948"	305-602-102					No: 0944-03-E038.	
1B33-0003A-U1 ELBOW SHORT SEAM, UPSTREAM		SEAM, UPSTREAM	R-A R3.LS	UT	1Q800-03-010	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0003A. Reference Report No: 0944-03-E038.	
22"	.898"	305-602-102				• • • •		
1B33-0003A-U2 ELBOW LONG SEAM, UPSTREAM		EAM, UPSTREAM 305-602-102	R-A R3.LS	UT	1Q800-03-011	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0003A. Reference Report No: 0944-03-E038.	
	.898* 0010-B		B-G-2	VT-1	1042-03A-017	SAT	None.	
BLANI 4"	K FLANGE	DECON CONNECTOR 305-602-102	B7.50		• -	يندي. مركب ممين		
1B33-( 24" Pil	)020 PE TO ELB	ow	R-A R3.ND	UT	0944-03-E020	NRI	Previously recorded geometry noted and verified per NDE-018. Max amp. below recordable levels.	
24"	1.346"	305-602-102						
1B33-0020-D1 ELBOW SHORT SEAM		SEAM	R-A R3.LS	UT	1Q800-03-001	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0020. Reference Report No: 0944-03-E020.	
24*	1.556"	305-602-102				· · ·		
ELBO\	)020-D2 N LONG SE		R-A R3.LS	UT	1Q800-03-002	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0020. Reference Report No: 0944-03-E020.	
24*	1.556"	305-602-102						
	020-U SEAM, UPS	TREAM	R-A R3.LS	UT	1Q800-03-003 -	NRI	Intersecting portions of longseam examined with - circumferential weld 1B33-0020. Reference Report No:	
24*	1.346"	305-602-102				· • •	0944-03-E020.	
1B33-0021 24" ELBOW TO PIPE		R-A R3.ND	UT	0944-03-E021	NRI	.: Previously recorded geometry noted and verified per NDE-018. Max amp. below recordable levels.		
24"	1.346"	305-602-102						
1B33-0021-D PIPE SEAM, DOWNSTREAM		R-A R3.LS	UT	1Q800-03-004	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0021. Reference Report No:		
24•	1.346"	305-602-102				• .	0944-03-E021.	
Friday	, August 22	2,2003					Page 15 of 34	

•

nanti In Indone and Anna and A

ID of Component Examined Description of Component			ASME Category ASME	Exam		÷.		
Size -	Sched	ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks	
1833-0 ELBOV	021-U1 / Short Se	EAM	R-A R3.LS	UT	1Q800-03-005	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0021. Reference Report No: 0044 03 E021	
24"	1.556"	305-602-102					0944-03-E021.	
	021-U2 / LONG SE#	AM	R-A R3.LS	UT	1Q800-03-006	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0021. Reference Report No:	
24"	1.556"	305-602-102					0944-03-E021.	
		LET TO 12" PIPE	R-A R3.ND	UT	0944-03-E041	NRI	Previously recorded geometry noted and verified per NDE-017. Max amp. below recordable levels.	
(CRC) 12"	.575"	305-602-101						
1833-0 PIPE S	056-D EAM, DOWN	ISTREAM	R-A R3.LS	UT	1Q800-03-086	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0003A. Reference Report No: 0944-03-E041.	
12"	.575"	305-602-101				344 19 14 19 19 19 19 19 19 19 19 19 19 19 19 19	NU. 0944-03-E041.	
1B33-0 12" PIP	057 E TO ELBO	N	R-A R3.ND	UT	0944-03-E039	NRI	Previously recorded geometry noted and verified per NDE-018. Max amp. below recordable levels.	
12"	.575"	305-602-101				r -		
1B33-00 Elbow		WNSTREAM	R-A R3.LS	UT	1Q800-03-007	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0057. Reference Report No: 0944-03-E039.	
12"	.575"	305-602-101				•	0017 00-2000.	
1833-00 PIPE SI	057-U EAM, UPSTI	REAM	R-A R3.LS	UT	1Q800-03-008	NRI	Intersecting portions of longseam examined with circumferential weld 1B33-0057. Reference Report No: 0944-03-E039.	
12"	.575"	305-602-101				•,	· · · · ·	
1833G7	STRUT, PUN 1001A		F-A F4.0	VT-3	1042-03A-025	SAT	None.	
N/A	N/A	305-602-102						
1B33-H RIGID (			F-A F1.G	VT-3	1042-03A-016	SAT	None.	
2"	N/A	305-671-101				174 - 17 1 - 2	· · ·	
	-	BER, PUMP G7065A 305-602-102	F-A F4.0	VT-3	VT-03-0190	SAT	·None.	
						,		
Friday,	August 22,	2003					Page 16 of 34	

.

.

32

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.			ASME Category				Report No. P0059-0009
			ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
		BBER, PUMP (WA), 305-602-102	F-A F4.0	VT-3	VT-03-0280	SAT	None.
		BBER, PUMP (WA) 305-602-102	F-A F4.0	VT-3	VT-03-0279	SAT	None.
		BBER, PUMP (WA) 305-602-102	F-A F4.0	VT-3	VT-03-0581	SAT	None.
1C11-0 8" ELB	)003 OW TO TEE	E	C-F-2 C5.51	MT	0942-03A-023	SAT	None.
8"	100	305-871-103				ی اور کار سالہ میں میں میں ا	
1C11-( 8" ELB	0003 OW TO TEE	:	C-F-2 C5.51	UT	0944-03-E022	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp, below recordable levels.
8"	100	305-871-103					
1C11-0 12" PIF	0007 PE TO CAP		C-F-2 C5.51	UT	0944-03-E024	NRI	ID geometry observed below recordable levels.
12"	100	305-871-103					
1C11-0 12" PIF	007 PE TO CAP		C-F-2 C5.51	MT	0942-03A-025	SAT	None.
12"	100	305-871-103				·	,
1C11-0 8" CAP	030 TO PIPE		C-F-2 C5.51	МТ	0942-03A-024	SAT	None.
8"	100	305-871-104				7.	
1C11-0 8" CAP	030 TO PIPE		C-F-2 C5.51	UT	0944-03-E023	GEO	Previously recorded geometry noted and verified per NDE-008 with no significant changes.
8"	100	305-871-104					
1C11-0084 2 1/2" ELBOW TO PIPE			X-B X10.11	PT	0941-03A-003	SAT	None.
2-1/2"	80	305-871-105				т. К. р.	
Friday.	August 22,	2003	<del></del>				Page 17 of 34

٠

~

ی ۲ بی ایمی ایم کام ورد.

-

. • ·

.

	omponent ption of Co	t Examined	ASME Category ASME	Exam		• •	• •
		ISI Dwg. No.	Item No.	Method	Exam Report No.		Remarks
1C11-0 2 1/2" E	086 LBOW TO F	PIPE	X-8 X10.11	PT	0941-03A-002	SAT	None.
2-1/2"	80	305-871-105					
1C11-0 2 1/2" P	092 IPE TO ELB	ow	X-B X10.11	PT	0941-03A-001	SAT	None.
2-1/2"	80	305-871-105					
1C11-H RIGID C	0052 GUIDE (WA)		F-A F2.G	VT-3	1042-03A-018	SAT	None.
8"	N/A	305-871-101					
HEPIBE	STRUT (AUG R)		F-A F5.0	VT-3	1042-03A-013	SAT	None.
2-1/2"	N/A	305-871-105			~	lianna - Ala Leis	
1C11-H MECHA	0673 NICAL SNU	BBER	F-A F2.SN	VT-3	VT-03-0114	SAT	None.
8"	N/A	305-87 <b>1-1</b> 01					
1C11-H RIGID A HEPIBE	NCHOR (AL	JGMENTED	F-A F5.0	VT-3	1042-03A-014	SAT	None.
2-1/2*		305-871-105					•
1C11-H RIGID G		MENTED HEPIBER)	F-A F5.0	VT-3	1042-03A-015	SAT	None.
2-1/2"	N/A	305-871-105				· ·	
1E12-00 24° PIPE	X64C E TO FLANG	E	C-F-2 C5.51	UT	0944-03-E002	NRI	Noné.
24"	40	305-642-111					
1E12-00 24" PIPE	064C E TO FLANG	ε	C-F-2 C5.51	МТ	0942-03A-009	SAT	None.
24"	40	305-642-111					
1E12-00 24" X 24		TO 18" PIPE	C-F-2 C5.51	MT	0942-03A-010	SAT	None.
18"		305-642-114					

Friday, August 22, 2003

-----

Page 18 of 34

. . .

.

م اليونيات المحمد معرف محمد المحمد المحم المحمد المحمد

Desc	ription of C		ASME Category ASME	Exam			
Size	Sched	ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
1E12- 24" X		E TO 18" PIPE	C-F-2 C5.51	UT	0944-03-E003	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
18"	40	305-642-114					
	1E12-0090 24" PIPE TO ELBOW		C-F-2 C5.51	MT	0942-03A-017	SAT	None.
24"	40	305-642-114				-	
1E12- 24" PI	0090 PE TO ELBC	W	C-F-2 C5.51	UT	0944-03-E011	NRI	None.
24"	40	305-642-114					·.
			C-F-2 C5.51	MT	0942-03A-021	SAT	None.
20"	40	305-643-106					
		01B OUTLET W 305-643-106	C-F-2 C5.51	ហ	0944-03-E015	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
20	40	303-043-100					<u>N</u>
1E12- 18" FL	0206 ANGE TO PI	PE	C-F-2 C5.51	MT	0942-03A-005	NRİ	None.
18"	40	305-643-115					
1E12- 18" Fl	0206 ANGE TO P	PE	C-F-2 C5.51	UT	0944-03-E001	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
18"	40	305-643-115				· .	
1E12- 18" Pi	0217 PE TO ELBO	w	C-F-2 C5.51	σ	0944-03-E004	GEO	Previously recorded geometry noted and verified per NDE-008 with no significant changes.
18"	40	305-643-117				1.	
1E12- 18" Pi	0217 PE TO ELBO	W	C-F-2 C5.51	мт	0942-03A-011	SAT	None.
18"	40	305-643-117					
						:	•
1E12- 12" Pi	0579 PE TO VALV	E F053B	C-F-2 C5.51	υT	0944-03-E008	NRI	None.
12"	40	305-642-132				). s	
							·

Report No. P0059-0009

Friday, August 22, 2003

Page 19 of 34

							Кероп No. P0059-000
		nt Examined	ASME Category	_			
	Description of Component Size - Sched ISI Dwg. No.		ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E12-0579 12" PIPE TO VALVE F053B		C-F-2 C5.51	MT	0942-03A-014	SAT	None.	
12"	40	305-642-132					
1E12- 12" P	-0579 IPE TO VAL	VE F053B	C-F-2 C5.51	UT	0944-03-E007	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
12"	40	305-642-132				• •••	
	0581 @ IPE TO ELB	ow	X-B X10.10	UT	0944-03-E049	GEO	Previously recorded geometry noted and verified per NDE-008 with no significant changes.
12"	100	305-642-132					
1E12- 18" P		ETRATION P407	C-F-2 C5.51	мт	0942-03A-012	SAT	None.
18"	STD	305-643-109			: 	163. •••	<b>-</b>
1E12- 18" Pi		ETRATION P407	C-F-2 C5.51	UT	0944-03-E005	NRI	Previously recorded geometry noted and venified per NDE-008. Max amp. below recordable levels.
18"	STD	305-643-109					•
		N P412 PROCESS 305-642-137	C-F-2 C5.51	МТ	0942-03A-026	SAT	None.
	0690 ENETRATIC TO PIPE 40	N P412 PROCESS 305-642-137	C-F-2 C5.51	UT	0944-03-E027 '	GEO	Previously recorded geometry noted and verified per NDE-008 with no significant changes.
1E12- 18" Pi	0756 PE TO ELB	ow	C-F-2 C5.51	UT	0944-03-E012	2 NRI	Previously recorded geometry noted and verified per - NDE-008. Max amp. below recordable levels.
18"	40	305-643-104					
1E12- 18" Pl	0756 PE TO ELBO	w	C-F-2 C5.51	МТ	0942-03A-020	SAT	None.
18"	40	305-643-104					. •
1E12-		bc.	C-F-2	UT	0944-03-E009	NRI	Previously recorded geometry noted and verified per
18" El	-BOW TO PI 40	99⊑ 305-643-120	C5.51			.i	NDE-008. Max amp. below recordable levels.
	( August 2'						Dage 20 of 3

. . v

Friday, August 22, 2003

Page 20 of 34

.

• 7,3% • • • •

					с. 1. так	Report No. P0059-000
		ASME			• •	
	onent Examined	Category ASME	Exam			
	of Component ed ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
E12-0846 8" ELBOW T(	O PIPE	C-F-2 C5.51	мт	0942-03A-015	SAT	None.
8" 40	305-643-120					
					•	•
E12-0854 2" ELBOW T(	O ELBOW	R-A R2.ND	UT	0944-03-E016	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
2" 80	305-642-134				<b>.</b> .	
E12-0858 2" PIPE TO E	LBOW	R-A R2.ND	UT	0944-03-E025	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
2" 80	305-642-135					
2 00					14.9 S	
E12-0859 2" ELBOW TO	O PIPE	R-A R2.ND	UT	0944-03-E026	NRI	ID geometry observed below recordable levels.
2" 80	305-642-135				n na thu Ann ann	<b></b>
						· · ·
E12-0874 2" ELBOW T(	O PIPE	R-A R2.ND	UT	0944-03-E048	NRI	ID geometry observed below recordable levels.
2" 80	305-642-143				•	
					•	
UCTION PIPI	FLANGE TO 24" E	C-G C6.10	МТ	0942-03A-004	SAT	None.
i/a n/a	305-643-122				·	
E12-C002C-0 8" DISCHAR(	007 GE PIPE TO HEAD	C-G C6.10	мт	0942-03A-008	SAT	None.
SHELL I/A N/A	305-643-122				•	
						••
E12-C002C-0 4" SUCTION	008 PIPE TO HEAD SHELL	C-G C6.10	мт	0942-03A-007	SAT	None.
1/A N/A	305-643-122				•	
E12-C002C-0	)11 ·	C-G	мт	0942-03A-006	SAT	None.
	PIPE LONGSEAM	C6.10				• .
I/A N/A	305-643-122				, , , , ,	
E12-H0004 IECHANICAL	SNUBBER	F-A F1.SN	VT-3	VT-03-0671	SAT	None.
2" N/A	305-642-141					
riday, Augus	st 22, 2003			<u></u>	• •	Page 21 of 3

••••

•

•

						. •		Report No. F0039-0009
Desc	ription of C	t Examined Component ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.		Remarks	
	H0050		F-A F1.R	VT-3	1042-03A-028	SAT	None.	<u></u>
12*	N/A	305-642-139				: •.		
	H0120 IOR (WA)		F-A F2.A	VT-3	1042-03A-012	SAT	None.	
12"	N/A	305-643-110						
PIPIN	H0120-WA G SUPPORT CHMENT N/A	WELDED 305-643-110	C-Cc C3.20	MT	0942-03A-019	SAT	None.	
	H0138 ABLE SPRING	G	F-A F2.SP	VT-3	1042-03A-001	SAT	None.	
18"	N/A	305-643-115				Billips ascennes more sere se		
	H0143 STRUT (WA	.)	F-A F2.ST	VT-3	1042-03A-002	SAT	None.	
6"	N/A	305-643-116						
1E12-I HYDR	H0170 AULIC SNUE	BBER	F-A F2.SN	VT-3	VT-03-0094	SAT	None.	
24"	N/A	305-642-111						
1E12-I RIGID	H0187 GUIDE (WA)	)	F-A F2.G	VT-3	1042-03A-010	SAT	None.	
18"	N/A	305-643-101				· .		
PIPIN	H0187-WA G SUPPORT CHMENT N/A	WELDED 305-643-101	C-Cc C3.20	MT	0942-03A-018	SAT	None.	
<b>PIPIN</b>	H0372-WA G SUPPORT CHMENT N/A	WELDED 305-642-113	C-Cc C3.20	MT	0942-03A-003	SAT	None.	
	H0409 BLE SPRING	3	F-A F1.SP	VT-3	1042-03A-011	SAT	None.	
12"	N/A	305-642-134				·	e.	

Page 22 of 34

يۇرىيەر ۋەرىخەر مە

Desc	ription of C	t Examined component ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	H0416 ANICAL SNI	JBBER	F-A F1.SN	VT-3	VT-03-0092	SAT	None.
12"	N/A	305-642-134					
	H0421 IANICAL SNI	JBBER	F-A F2.SN	VT-3	VT-03-0096	SAT	None.
6"	N/A	305-643-120					
1E12- VARIA	H0426 ABLE SPRING	3	F-A F2.SP	VT-3	1042-03A-009	SAT	Exam found loose locknut which was corrected in accordance with Work Request No. 03-000809.
18"	N/A	305-643-120					
1E12-1 MECH	H0561 IANICAL SNI	JBBER	F-A F2.SN	VT-3	VT-03-0093	SAT	None.
12"	N/A	305-642-136				ынын - 	• .
1e12-i Rigid	H0562 STRUT (WA	.<.75*T)	F-A F2.ST	VT-3	1042-03A-003	SAT	None.
18"	N/A	305-643-110					
1E12-I MECH	H0652 IANICAL SNU	JBBER	F-A F1.SN	VT-3	VT-03-0113	SAT	None.
12"	N/A	305-642-137				•	
1E12-I VARIA	H0709 BLE SPRINC	3	F-A F2.SP	VT-3	1042-03A-004	SAT	None.
6"	N/A	305-643-116					
	H0710 IANICAL SNU	JBBER	F-A F2.SN	VT-3	VT-03-0095	SAT	
8"	N/A	305-642-111				÷	
1E12-I MECH	H0747 ANICAL SNU	JBBER	F-A F2.SN	VT-3	VT-03-0045	SAT	None.
12"	N/A	305-642-132				• •	
1E12-I MECH	H0765 ANICAL SNU	JBBER	F-A F1.SN	VT-3	VT-03-0375	SAT	None.
12"	N/A	305-642-145				te.	

Page 23 of 34

.

Descriptio	ponent Examined n of Component hed ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Report No. P0059-0009
1E12-H6000 RIGID GUID		F-A F2.Gs	VT-3	1042-03A-005	SAT	None.
6" N//	a 305-643-116					1 a.
1E12-PRB2 ANCHOR, F	035-SP PEN TO DRYWELL (WA)	F-A F1.A	VT-3	1042-03A-026	SAT	None.
12" N//	305-642-143					
	LUED HD FITTING TO PIPE ATTACH WD	B-Kc B10.20	MT	0942-03A-027	SAT	None.
1E51-0001- 6" FLANGE		B-G-2 B7.50	VT-1	1042-03-0040	SAT	Examined 12 studs and 24 nuts after head spray piping reassembly. See report 1042-03-0034 for replacement
6" N//	305-631-108			·.	-415 	bolting exams.
1E51-0001-1 6" FLANGE		B-G-2 B7.50	VT-1	1042-03-0034	SAT	Examined 6 new studs and 10 new nuts.
6" N//	305-631-108				:.	
1E51-0009-1 6" FLANGE		B-G-2 B7.50	VT-1	1042-03-0041	SAT	Examined 12 studs and 24 nuts after head spray piping reassembly. See report 1042-03-0035 for replacement
6" N/A	305-631-108				•••	bolting exams.
1E51-0024 6" ELBOW 1	O PIPE	R-A R2.11	UT	0944-03-E045	NRI	ID geometry observed below recordable levels.
6* 80	305-631-106				ь <sup>т</sup>	
1E51-0025 6" PIPE TO	ELBOW	R-A R2.11	UT	0944-03-E046	NRI	D geometry observed below recordable levels.
6* 80	305-631-106				•	
1E51-0029 6" PIPE TO	ELBOW	R-A R1.11	UT	0944-03-E014	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
6* 80	305-631-105					
1E51-0029A 5" TEE TO F		R-A R1.11	υT	0944-03-E013	NRI	None.
6" 80	305-631-105				.:	

··· · · · ·

Friday, August 22, 2003

Page 24 of 34

•

• • • .+

	-	t Examined omponent	ASME Category ASME	Exam			
	•	ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
	1E51-0034 6* ELBOW TO PIPE		C-F-2 C5.51	мт	0942-03A-016	SAT	None.
6"	120	305-631-103					
1E51-0 6" ELB	034 OW TO PIPE	E	C-F-2 C5.51	ហ	0944-03-E010	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
6*	120	305-631-103					
1E51-0 12" PIP	099 E TO TEE		C-F-2 C5.51	MT	0942-03A-013	SAT	None.
12"	STD	305-632-103					
1E51-0 12" PIP	099 PE TO TEE		C-F-2 C5.51	UT	0944-03-E006	NRI	None.
12"	STD	305-632-103					
1E51-0 10" P42		S PIPE TO PIPE	R-A R2.ND	UT	0944-03-E040	GEO	Previously recorded geometry verified per NDE-008 with no significant changes.
10"	80	305-632-102					
1E51-0 10" PIP	124 @ E TO VALVI	E F063	X-B X10.10	UT	0944-03-E057	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
10"	80	305-632-101					
		IG TO DISCHARGE	C-G C6.10	МТ	0942-03A-001	SAT	None.
6*	N/A	305-631-109					
1E51-C	001-004		C-G	МТ	0942-03A-002	SAT	None.
	OW TO FLAI		C6.10			ر الدائمية. المانية المانية	•
6"	N/A	305-631-109					
1E51-H RIGID S			F-A F1.ST	VT-3	1042-03A-024	SAT	None.
6"	N/A	305-631-106				, <b>*</b> **	· .
1E51-H VARIAE	0040 BLE SPRING	i	F-A F1.SP	VT-3	1042-03A-006	SAT	None.
6"	N/A	305-631-105				*	

....

Friday, August 22, 2003

ID of Component Description of Co Size - Sched	mponent	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E51-H0076 RIGID GUIDE		F-A F1.G	VT-3	1042-03A-022	SAT	None.
6" N/A	305-631-107					
1E51-H0131 RIGID GUIDE		F-A F2.G	VT-3	1042-03A-007	SAT	None.
12" N/A	305-632-103					
1E51-H0137 RIGID STRUT		F-A F2.ST	VT-3	1042-03A-008	SAT	None.
6" N/A	305-631-105					
1G33-0115 6" PENE. P132 PRC VALVE F039 6" 120	OCESS PIPE TO 305-672-102	C-F-2 C5.51	MT	0942-03A-022	SAT	
1G33-0115 5° PENE. P132 PRC VALVE F039 5° 120	CESS PIPE TO 305-672-102	C-F-2 C5.51	UT	0944-03-E017	NRI	
1G33-0116 @ 6" VALVE F039 TO I	PIPE	X-B X10.10	UT	0944-03-E018	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
6" 120	305-672-102					
1G33-0117 @ 5" PIPE TO FLANGE	E FE N040	X-B X10.10	UT	0944-03-E019	NRI	D geometry observed below recordable levels.
5* 120	305-672-102					
1G33-0123 @ 6" VALVE F051A TC	PIPE	X-B X10.10	υτ	0944-03-E031	GEO	Previously recorded geometry noted and verified per NDE-008 with no significant changes.
6" 120	305-672- <b>1</b> 01					
1G33-0124 @ 5" PIPE TO ELBOW		X-B X10.10	UT	0944-03-E030	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
6" 120	305-672-101				1. 	
1G33-0125 @ 5" ELBOW TO PIPE		X-B X10.10	σ	0944-03-E029	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
6" 120	305-672-101					

····• •

•••

Friday, August 22, 2003

i.

Page 26 of 34

ي و موري د

ID of Component Examined Description of Component	ASME Category ASME	Exam		•	
Size - Sched ISI Dwg. No		Method	Exam Report No.	Status	Remarks
1G33-0126 @ 6" PIPE TO VALVE F052A	Х-В X10.10	UT	0944-03-E033	NRI	ID geometry observed below recordable levels.
6 <b>•</b> 120 305-672-101					
1G33-0126 @ 6" PIPE TO VALVE F052A	Х-В X10.10	UT	0944-03-E032	NRI	ID geometry observed below recordable levels.
6" 120 305-672-101					
1G33-0127 @ 6" VALVE F052A TO PIPE	X-B X10.10	UT	0944-03-E036	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
6" 120 305-672-101					
1G33-0128 @ 6" PIPE TO ELBOW	Х-В Х10.10	υτ	0944-03-E034	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
6" 120 305-672-101				1984 - 1994 - 19	
1G33-0129 @ 6' ELBOW TO PIPE	X-B X10.10	UT	0944-03-E035	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
6" 120 305-672-101				·	
1G33-0132A @ 6" PIPE TO PIPE	X-B X10.10	UT	0944-03-E053	GEO	Previously recorded geometry noted and verified per NDE-008 with no significant changes.
6" 120 305-672-101					
1G33-0160 4" VALVE F028 TO 4" PIPE	Х-В Х10.10	UT	0944-03-E037	NRI	ID geometry observed below recordable levels.
4* 120 305-672-103				. •	
1G33-0161 4" PIPE TO VALVE F034	X-B X10.10	ហ	0944-03-E028	NRI	ID geometry observed below recordable levels.
4" 120 305-672-103				۰.	
4032 10444	<b>F A</b>	107.0	VET 02 0040	CAT.	Mana
1G33-H0144 MECHANICAL SNUBBER (AUGMENTED HEPIBER) 6' N/A 305-671-104	F-A F5.0	VT-3	VT-03-0616	SAT	None.
				44 - X 2 - 2	
1G33-H0145 VARIABLE SPRING (AUGMENTE HEPIBER)	F-A D F5.0	VT-3	1042-03A-019	SAT	None.
6" Ň/A 305-671-104				• • • • •	

••

Friday, August 22, 2003

Page 27 of 34

			ASME			t .		Report No. P0039-
		nt Examined	Category ASME	Even				
		Component - ISI Dwg. No.	F-A F2.SN	Exam Method	Exam Report No.	Status	Remarks	
	-H0215 HANICAL SM	IUBBER		VT-3	VT-03-0361	SAT	None.	
6"	N/A	305-672-102						
1N22 2" EL	-0028 @ BOW TO PII	ЪЕ	X-B X10.11	MT	0942-03A-029	SAT	None.	
2"	160	305-121-102						
1N22 2* PIF	0031 @ E TO ELBO	w	X-B X10.11	РТ	0941-03A-008	SAT	None.	
2"	160	305-121-102						
1N22 2" TE	0031A @ E TO PIPE		X-B X10.11	PT	0941-03A-009	SAT	None.	
2"	160	305-121-102					• ·	
1N22 2" PIF	0031B @ E TO TEE		X-B X10.11	PT	0941-03A-010 ·	SAT	None.	
2"	160	305-121-102						
1N22- 2" TE	0031C @ E TO COUP	LING	X-B X10.11	PT	0941-03A-011	SAT	None.	
2"	160	305-121-102						
1N22- 2" ELI	0036 @ 30W TO PIF	Έ	X-B X10.11	PT	0941-03A-012	SAT	None.	
2"	160	305-121-102				* *		
1N22- 2" ELI	0138 @ 30W TO PIF	Έ	Х-В X10.11	MT	0942-03A-030	SAT	None.	
2"	160	305-121-102					· .	
1N22- 2" PIF	0139 @ E TO ELBO	w	Х-В X10.11	MT	0942-03A-031	SAT	None.	
2"	160	305-121-102						
1N22- 2" PIP	0141 @ E TO ELBO	w	X-B X10.11	PT	0941-03A-013	SAT	None.	
2"	160	305-121-102				· .		
						`; <b>`</b>		

Page 28 of 34

in an an an

.

Descri	ption of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1N22-0 2" EL B(	142 @ OW TO PIPE		X-B X10.11	PT	0941-03A-014	SAT	None.
2"	160	305-121-102	X10.11				
1N22-H RIGID S			F-A F1.ST	VT-3	1042-03A-029	SAT	None.
2"	N/A	305-121-102					
1N22-H MECHA	0013 NICAL SNU	BBER	F-A F1.SN	VT-3	VT-03-0459	SAT	None.
2"	N/A	305-121-102					
		O PENE. P121 305-082-101	R-A R1.11	UT	0944-03-E044	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
1N27-0 20" PIP	010 @ E TO VALVE	E F032A	X-B X10.10	UT	0944-03-E051	NRI	ID geometry observed below recordable levels.
20"	80	305-082-101					
1N27-0 20" PIP	010A E TO PIPE		C-F-2 C5.51	МТ	0942-03A-028	SAT	None.
20"	80	305-082-101				. *	
1N27-0 20" PIP	010A E TO PIPE		C-F-2 C5.51	UT	0944-03-E052	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
20"	80	305-082-101					
1N27-0 20" VAL	013 @ .VE F065A T	OPIPE	X-B X10.10	UT	0944-03-E042	NRI	ID geometry observed below recordable levels.
20*	120	305-082-101					. :
1N27-0 20" PIP	014 E TO VALVE	F065A	X-B X10.10	UT	0944-03-E043	NRI	Previously recorded geometry noted and verified per NDE-008. Max amp. below recordable levels.
20"	120	305-082-101				·	
REDUC	ROSS TO 1	1/2" X 1" 305-971-101	X-B X10.11	PT	0941-03A-004	SAT	None.

Ξ,

Friday, August 22, 2003

Page 29 of 34

Report No. P0059-0009

-

							110001100000
ID of Componen Description of C Size - Sched	omponent	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks	
1N27-0087 1 1/2* CROSS TO 7 REDUCER 1-1/2* 6000 LB	1 1/2" X 1" 305-971-101	X-B X10.11	PT	0941-03A-005	SAT	None.	
1N27-0088 1 1/2" PIPE TO TER 1-1/2" 160	∃ 305- <del>9</del> 71-101	X-B X10.11	PT	0941-03A-006	SAT	None.	
1N27-0089 1 1/2" TEE TO 1 1/2 1-1/2" 6000LB	2" X 1" REDUCER 305-971-101	X-B X10.11	РТ	0941-03A-007	SAT	None.	
1N27-H0034 Rigid Guide (Auc 20" N/A	GMENTED HEPIBER) 305-082-101	F-A F5.0	VT-3	1042-03A-027	SAT	None.	
1P42-H0171-WA INTEGRAL ATTAC 10" N/A	HMENT ANCHOR 305-621-107	D-Ac D1.20	VT-3	1042-02-0001	SAT	None.	
1P42-H0231 RIGID STRUT	000-021-101	F-A F3.ST	VT-3	1042-02-0004	SAT	None.	
10" N/A 1P45-H0044 RIGID GUIDE	305-621-105	F-A F3.G	VT-3	1042-03-0001	SAT	None.	
14" N/A	305-792-116						

RIGID G	UIDE		F3.G				
14"	N/A	305-792-116					
						• •	
1P45-H0 RIGID G			F-A F3.G	VT-3	1042-02-0027	SAT	None.
24"	N/A	305-791-111				• • • •	•
1P45-H0 RIGID G			F-A F3.G	VT-3	1042-02-0015	SAT	None.
16"	N/A	305-792-110				t t	
1P45-H0 RIGID GI			F-A F3.G	VT-3	1042-02-0029	SAT	None.

8" N/A 305-792-114

Friday, August 22, 2003

.

Report No. P0059-0009

• • • ••

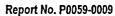
			ASME					Report No. P	0033-0
Desc	ription of	nt Examined Component - ISI Dwg. No.	Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks		
1P45-	H0510		F-A	VT-3	1042-02-0021	SAT	None.		
MECH	IANICAL SN	IUBBER (WA)	F3.SN	,					
8"	N/A	305-792-114							
INTE	H0510-WA GRAL ATTA( IANICAL SN N/A		D-Ac D1.20	VT-3	1042-02-0022	SAT	None.		
	H0650 STRUT		F-A F3.ST	VT-3	1042-02-0028	SAT	None.		
14"	N/A	305-791-113							
	H0011 STRUT		F-A F3.ST	VT-3	1042-02-0020	SAT	None.		
10"	N/A	305-002-101			· • •	 			
						T			
1P47- RIGID	H0037 ROD		F-A F3.R	VT-3	1042-02-0023	SAT	None.		
10"	N/A	305-002-103							
	H0257 STRUT		F-A F3.STm	VT-3	1042-02-0024	SAT	None.		
10"	N/A	305-002-110							
	H0259 GUIDE		F-A F3.G	VT-3	1042-02-0025	SAT	None.		
10"	N/A	305-002 <b>-11</b> 0							
	H0279 Ianical Sn	IUBBER (WA)	F-A F3.SN	VT-3	1042-02-0018	SAT	None.		
10"	N/A	305-002-113	10.011						
						e i	• •		
INTEG	H0279-WA SRAL ATTAC		D-Ac D1.20	VT-3	1042-02-0019	SAT	None.		
MECH 10"	IANICAL SN N/A	IUBBER 305-002-113				1.5			
1247-	H0363		F-A	VT-3	1042-02-0026	SAT	None.		
	STRUT		F3.ST	••••					
6"	N/A	305-002-112				۰.			

.•

Page 31 of 34

ID of	Componer	nt Examined	ASME Category				Report No. 20039-0009
Desc	ription of (	Component ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
		N WASH STRAINER 305-214-101	F-A F4.0	VT-3	1042-02-0017	SAT	None.
INTEC	D003A-WA GRAL ATTAC I STRAINER N/A	CHMENT SCREEN ANCHOR 305-214-101	D-Ac D1.10	VT-3	1042-02-0016	SAT	None.
		ING AIR RECEIVER 305-351-103	F-A F4.0	VT-3	1042-02-0005	SAT	None.
	-A005-SP IOR, HPCS F N/A	UEL OIL DAY TANK 305-356-101	F-A F4.0	VT-3	1042-02-0003	SAT	None.
	H0013-WA GRAL ATTAC	CHMENT ANCHOR	D-Ac D1.20	VT-3	1042-02-0002	SAT	None.
24"	N/A	305-355-102					
	H0047 SUPPORT (	WA)	F-A F3.R	VT-3	1042-02-0007	SAT	None.
20*	N/A	305-355-106					
	H0150 STRUT		F-A F3.ST	VT-3	1042-02-0006	SAT	None.
10"	N/A	305-623-104					
	S 1, PIPING G-SYSTEM L	EAKAGE TEST	B-P B15.50	VT-2	1Q800-03-121	SAT	Exam completed by applicable ISI Pressure Testing Instructions.
N/A	N/A	305-NO-DWG				···· *	
	S 1, PUMPS S-SYSTEM I	LEAKAGE TEST	B-P B15.60	VT-2	1Q800-03-122	SAT	Exam completed by applicable ISI Pressure Testing Instructions.
N/A	N/A	305-NO-DWG				: •	
CLASS VALVE N/A	S 1, VALVES ES-SYSTEM N/A	LEAKAGE TEST 305-NO-DWG	B-P B15.70	VT-2	1Q800-03-123	SAT	Exam completed by applicable ISI Pressure Testing Instructions.

Page 32 of 34



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 1, PR COMP REACTOR VESSEL-SYSTEM LEAKAGE TEST N/A N/A 305-NO-DWG	B-P B15.10	VT-2	1Q800-03-124	SAT	Exam completed by applicable ISI Pressure Testing Instructions.
1T23-005-E EXTERIOR EL 610-664 AZ 0-90 (6%) N/A N/A 305-503-127	E-A E1.12	VT-3	1042-02-0009	SAT	Partial exam with remainder to be performed during cycle 10.
1T23-006-E EXTERIOR EL 610-664 AZ 90-180 (5%) N/A N/A 305-503-128	E-A E1.12	VT-3	1042-02-0010 ·	SAT	Partial exam with remainder to be performed during cycle 10.
1T23-007-E EXTERIOR EL 610-664 AZ 180-270 (6%) N/A N/A 305-503-129	E-A E1.12	VT-3	1042-02-0011	SAT	Partial exam with remainder to be performed during cycle 10.
1T23-008-E EXTERIOR EL 610-664 AZ 270-360 (5%) N/A N/A 305-503-130	E-A E1.12	VT-3	1042-02-0012	SAT	Partial exam with remainder to be performed during cycle 10.
1T23-015-E EXTERIOR FUEL TRANSFER TUBE EL 620-652 (1%) N/A N/A 305-503-132	E-A E1.12	VT-3	1042-03-0043	SAT	Exam found light and heavy surface rust adjacent to some of the weld seams. No areas of material loss greater than 1/32".
1T23-001-1 SUPPRESION POOL WALL EL 575- 599 AZ 0-90 (3%) N/A N/A 305-503-101	E-A E1.12	VT-3	1042-03-0035	SAT	Partial direct visual exams performed with Suppression pool level at 591' (appx. 7.4% of exam area). See 1042- 03-0035 for additional 9.7% coverage.
1T23-002-I SUPPRESION POOL WALL EL 575- 599 AZ 90-180 (3%) N/A N/A 305-503-102	E-A E1.12	∨т-3	1042-03-0046	SAT	Partial direct visual exam of upper 3ft (appx 11% of exam area).
1T23-003-1 SUPPRESION POOL WALL EL 575- 599 AZ 180-270 (3%) N/A N/A 305-503-103	E-A E1.12	VT-3	1Q800-03-125	SAT	Partial direct visual exams of upper 3 feet (appx. 11% of exam area). For actual exam report, see 1042-03-0046.
1T23-004-I SUPPRESION POOL WALL EL 575- 599 AZ 270-360 (3%) N/A N/A 305-503-104	E-A E1.12	VT-3	1Q800-03-126	SAT	Partial direct visual exams (appx. 31% of exam area). For actual exam reports, see 1042-03-0035 and 1042- 03-0046.

Page 33 of 34

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1T23-017-EM CTMT EXT INTERFACE WITH ANNULUS POUR AZ 0-360 N/A N/A 305-503-139	E-C E4.11	VT-3	1042-02-0014	SAT	None.
1T23-017-EM CTMT EXT INTERFACE WITH ANNULUS POUR AZ 0-360 N/A N/A 305-503-139	E-C E4.11	VT-3	1042-02-0008	UNSAT	Supplemental VT-1 exam of interface area uncovered to determine extent of water intrusion and heavy surface rust. CRs 02-04440 and 03-00333.
1P53-A306-B CONTAINMENT EQUIPMENT HATCH BOLTING N/A N/A 305-503-126	E-G E8.10	VT-1	1042-03-0027	SAT	None.
1T23-017-EC ANNULUS CONCRETE SURFACE BENEATH E32 LEAKOFF LINES N/A N/A 305-503-139	L-A L1.12	VT-3	1042-02-0013	SAT	None.

#### Table Notes:

Status codes are "SAT" or "UNSAT" for visual and surface examinations. For ultrasonic examinations they are "IND" for indication, "GEO" for geometry, and "NRI" for no recordable indications.
 The above exam listing is all the preservice examinations that were performed during Cycle8/RFO8 due to repair, replacement, or modification activities.

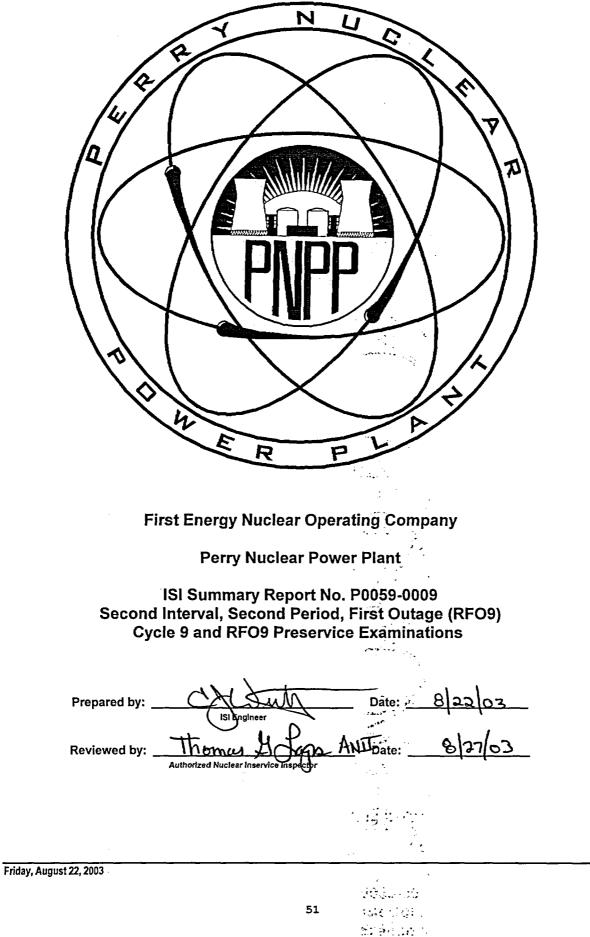


• •

. . - -• · · · · 2

Friday, August 22, 2003

Page 34 of 34



a na mi

Page 1 of 6

					, +	ent de la composition br>La composition de la c	Report No. P0059-0009
Desc	ription of C		ASME Category ASME	Exam			
Size	Sched	ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
	02/27-B FLANGE BOL	.TING	B-G-2 B7.80	VT-1	1042-03-0024	SAT	Examined 8 new capscrews and washers.
N/A	N/A	305-006-110					
							·
	06/31-B FLANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-097	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110				• •	
	10/27-B FLANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-098	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110				· · · ·	
	14/19-B FLANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-099	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
	18/19-B FLANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-100	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
	22/11-B 'LANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-101	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
						. : :	
	22/19-B LANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-102	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
						- , ·	· •
	22/31-B LANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-103	SAT	Examined 8 new capscrews and washers. See report - 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
	22/35-B	TINC	B-G-2	VT-1	1042-03-0028	SAT	Examined 8 new capscrews and washers.
	LANGE BOL		B7.80				. •
N/A	N/A	305-006-110					
	26/35-B LANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-104	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
						· ·	•
	, August 22,	2002					Page 2 of 6

.....

Friday, August 22, 2003

,

ې ورونې د ورونې ورونې د ورونې د ورونې ورونې د رونې

			ASME				Report No. P0059-000
		ent Examined	Category	<b>F</b>		•.	
		Component - ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	6/43-B LANGE BO	OLTING	B-G-2 B7.80	VT-1	1Q800-03-105	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110				: . :	
	:6/55-B LANGE BO	DLTING	B-G-2 B7.80	VT-1	1Q800-03-106	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110				•••••	
	0/27-B LANGE BO	DLTING	B-G-2 B7.80	VT-1	1Q800-03-107	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
	4/19-B LANGE BO	DLTING	B-G-2 B7.80	VT-1	1Q800-03-108	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					• •
	4/31-B LANGE BO	OLTING	B-G-2 B7.80	VT-1	1Q800-03-109	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
	4/51-B LANGE BO	DLTING	B-G-2 B7.80	VT-1	1Q800-03-110	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
J/A	N/A	305-006-110					
	8/07-B _ANGE BC	DLTING	B-G-2 B7.80	VT-1	1Q800-03-111	SAT	Examined 8 new capscrews and washers. See report .1042-03-0024 for exam results.
I/A	N/A	305-006-110					
	8/11-B LANGE BO	DLTING	B-G-2 B7.80	VT-1	1Q800-03-112	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
I/A	N/A	305-006-110				а. 1 <sup>914</sup> а.	
	8/19-B "ANGE BC	DLTING	B-G-2 B7.80	VT-1	1Q800-03-113	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
I/A	N/A	305-006-110				ъ.	· · · · · · · · · · · · · · · · · · ·
	8/51-B _ANGE BC	DLTING	B-G-2 B7.80	VT-1	1Q800-03-114	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
¶∕A	N/A	305-006-110				:	

• • • ••

-

Friday, August 22, 2003

1 1 l

-

:

Page 3 of 6

•

Descri	ption of Co	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-4: CRD FL	2/35-B ANGE BOL'	TING	B-G-2 B7.80	VT-1	1Q800-03-115	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
1813-4 CRD FL	5/35-B ANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-116	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110				•	
1813-40 CRD FL	6/47-B ANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-117	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
1B13-50 CRD FL	)/47-B ANGE BOL'	TING	B-G-2 B7.80	VT-1	1Q800-03-118	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006 <b>-110</b>				•••••	u * ·
1B13-5( CRD FL	)/51-B ANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-119	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110					
1B13-54 CRD FL	I/39-B ANGE BOL	TING	B-G-2 B7.80	VT-1	1Q800-03-120	SAT	Examined 8 new capscrews and washers. See report 1042-03-0024 for exam results.
N/A	N/A	305-006-110				anna in in i	
1B21G7	ULIC SNUB 071		F-A F1.SN	VT-3	VT-03-0478	SAT	PSI Exam of like for like E-Systems Hydraulic snubber replacement for seal life EQ.
26"	N/A	305-605-103				·•	
MOTOR	ULIC SNUB , MPL 1833		F-A F4.0	VT-3	VT-03-0531 .	SAT .	PSI Exam of like for like E-Systems Hydraulic snubber replacement for seal life EQ.
N/A	N/A	305-602-102			•		•
		BER, PUMP G7066A 305-602-102	F-A F4.0	VT-3	VT-03-0422	SAT	PSI Exam of like for like E-Systems Hydraulic snubber replacement for seal life EQ.
		BER, PUMP (WA), 305-602-102	F-A F4.0	VT-3	VT-03-0612	SAT	PSI Exam of like for like E-Systems Hydraulic snubber replacement for seal life EQ.

•

Friday, August 22, 2003

Ļ

Page 4 of 6

ID of Component Exan	ASME Categor	у		· . · ·	Report No. P0059-000
Description of Compo Size - Sched ISI D	nent ASME	Exam Method	Exam Report No.	Status	Remarks
1B33-S373A HYDRAULIC SNUBBER, F MPL 1B33G706BA N/A N/A 305-f	F-A PUMP (WA), F4.0 502-102	· VT-3	VT-03-0511	SAT	PSI Exam of like for like E-Systems Hydraulic snubber replacement for seal life EQ.
1B33-S374A HYDRAULIC SNUBBER, F MPL 1B33G7069A N/A N/A 305-{	F-A PUMP (WA), F4.0 502-102	VT-3	VT-03-0554	SAT	PSI Exam of like for like E-Systems Hydraulic snubber replacement for seal life EQ.
1E12-H0026 MECHANICAL SNUBBER	F-A F1.SN	VT-3	VT-03-0097	SAT	PSI Exam performed due to Load Stud replacement following snubber testing.
12" N/A 305-6	642-142				
1E12-H0386 MECHANICAL SNUBBER	F-A F2.SN	VT-3	VT-03-0107	SAT	PSI Exam for replacement of PSA-35 mechanical snubber with Lisega hydraulic snubber per ECP 01- 8052.
20" N/A 305-6	642-102		. •	line y s y a state br>a state a state	0022.
1E12-H0410 MECHANICAL SNUBBER	F-A F2.SN	VT-3	VT-03-0378	SAT	PSI Exam performed due to Load Pin replacement following snubber testing.
18" N/A 305-6	642-134			· .	
IE12-H0769 MECHANICAL SNUBBER	F-A F2.SN	VT-3	VT-03-0108	SAT	PSI Exam for replacement of PSA-35 mechanical snubber with Lisega hydraulic snubber per ECP 01- 8052.
20 <b>" N/A 3</b> 05-6	642-102			i.	
1E22-H0032 MECHANICAL SNUBBER	F-A F2.SN	VT-3	VT-03-0695	SAT	PSI Exam performed following like for like snubber replacement because the snubber got wet. CR 03-03239.
24" N/A 305-7	01-102			٤	4.4
IE22-H0034 MECHANICAL SNUBBER	F-A F2.SN	VT-3	VT-03-0696	SSAT.	PSI Exam performed following like for like snubber replacement because the snubber got wet. CR 03-03239.
24" N/A 305-7	01-102				
IE51-H0110 MECHANICAL SNUBBER	F-A F1.SN	VT-3	VT-03-0726	SAT	PSI Exam performed following like for like snubber replacement because the snubber got wet. No CR.
10" N/A 305-6	32-101				- - -
1E51-H0111 MECHANICAL SNUBBER	F-A F1.SN	VT-3	VT-03-0727		PSI Exam performed following like for like snubber replacement because the snubber got wet. No CR.
	32-101				· · ·

-----

----

•

• an ∕

55

-

Descr	iption of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E51-H MECH/	10156 ANICAL SNL	JBBER	F-A F2.SN	VT-3	VT-03-0008	SAT	- PSI Exam performed following like for like snubber replacement because the snubber got wet. CR 02-0560.
12"	N/A	305-632-103					
1P45-H MECH/		JBBER (TANDEM)	F-A F3.SN	VT-3	VT-03-0694	SAT	PSI Exam performed following like for like replacement of North snubber because the snubber got wet due to
20*	N/A	305-792-108				· · · ·	Emergency Service Water System (P45) pipe leak. No CR specific to snubber, but refer to CR 03-03033 for the pipe leak.
1P45-H MECHA	10502 ANICAL SNU	JBBER	F-A F3.SN	VT-3	VT-03-0020	SAT	PSI Exam performed due to Load Pin replacement following snubber testing.
8"	N/A	305-792-111					

-

## Table Notes:

Status codes are "SAT" or "UNSAT" for visual and surface examinations. For ultrasonic examinations they are "IND" for indication, "GEO" for geometry, and "NRI" for no recordable indications.
 The above exam listing is all the preservice examinations that were performed during Cycle8/RFO8 due to repair, replacement, or modification activities.

ې درونې د مې د مې د الېتسورېد کې ژبو

na an Taona ao amin'ny designa

Friday, August 22, 2003

Page 6 of 6

# APPENDIX B

## "CYCLE 9 & RFO9 NIS-2/NR-1 FORMS"

# INSERVICE INSPECTION SUMMARY REPORT

FOR

## PERRY NUCLEAR POWER PLANT

(PNPP)

UNIT 1

NPP No. 9308 R			<u></u>	······		<u></u> <u></u>	NQI-1741
. Owner:	FIRST	ENERGY CORP.		<u> </u>		Date 05/29//03	
_	10 Center F	Road, Perry, Ohio	0 44081			Sheet 1 of	46
. Plant:	Perry Nucl	ear Power Plant (	PNPP)			Unit <u>1</u>	·····
-	10 Center F	Road, Perry, Ohio	44081			See Sheet 2 of 4	46 for WOs
-						(Repair Org. P.O. N	io., etc.)
Work Perfo	rmed By: <u>FIRSTEI</u>	NERGY Nuclear Or	perating Con	npany PNPF	-	Type Code Sym	ool Stamp <u>NR</u>
	<u>10 Ce</u>	enter Road, Perry	<u>Ohio 4408</u>	81		Authorization No	
		•				Expiration Date	9-26-05
. Identificatio	n of System: <u>1B13</u>	3 Reactor and Inte	emals		·	<u></u>	
(a) Applicat	ble Construction Co	ode: <u>ASME Sec II</u> NAME/SEC	I. Subsecti	on NB		,19 <u>74</u> Editi	on
<u>Winter</u>	19 <u>75</u> /			•	2, 1728, <sup>.</sup>	644-4, n272	
	uction Code used fo			·	Ed	ition Addenda	N/A Code Case(s)
(c) ASME ( (d) Applica 19 <u>89 ,</u>	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u>	oplicable for Insen on XI Utilized for I Addenda <u>N/</u> , Co	vice Inspec Repairs, M A de Case(s)	tion: odification,	Ed <u>1989</u> Ed or Replac	ition Addenda <u>N/A</u> ition Addenda	
<ul> <li>(c) ASME</li> <li>(d) Application</li> <li>19 89 ,</li> <li>(e) Design</li> </ul>	Code Section XI ap ble Edition of Secti	oplicable for Insen on XI Utilized for I Addenda <u>N/,</u> Co IRSTENERGY N.	vice Inspec Repairs, M A de Case(s) uclear Oper	tion: odification, rating Com	Ed <u>1989</u> Ed or Replac pany	ition Addenda <u>N/A</u> ition Addenda cements:	Code Case(s)
<ul> <li>(c) ASME</li> <li>(d) Application</li> <li>19 89 ,</li> <li>(e) Design</li> </ul>	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u>	oplicable for Insen on XI Utilized for I Addenda <u>N/,</u> Co IRSTENERGY N.	vice Inspec Repairs, M A de Case(s) uclear Oper d, or Replac Nat. Board	tion: odification, rating Com	Ed <u>1989</u> Ed or Replac pany	ition Addenda <u>N/A</u> ition Addenda cements: Repair, Replacement,	Code Case(s) N/A Code Case(s) ASME Code
<ul> <li>(c) ASME</li> <li>(d) Application</li> <li>19 89 ,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> <li>Piping</li> </ul>	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of	oplicable for Insen on XI Utilized for I Addenda <u>N/,</u> <u>Co</u> IRSTENERGY N Repaired, Modified Manufacturer	vice Inspec Repairs, M <u>A</u> de Case(s) <u>uclear Oper</u> d, or Replac	tion: odification, rating Com cement Con cement Con Other ID. 1B13-	Ed <u>1989</u> Ed or Replac <u>bany</u> mponents Year	ition Addenda <u>N/A</u> ition Addenda cements: Repair,	Code Case(s) N/A Code Case(s)
<ul> <li>(c) ASME</li> <li>(d) Application</li> <li>19 89 ,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> </ul>	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer	oplicable for Insen on XI Utilized for Addenda <u>N//</u> Co IRSTENERGY N Repaired, Modified Manufacturer Serial No.	vice Inspec Repairs, M <u>A</u> de Case(s) <u>uclear Oper</u> J, or Replac Nat. Board No.	tion: odification, rating Com cement Cor cement Cor Dther ID.	Ed <u>1989</u> Ed or Replac <u>Dany</u> mponents <u>Year</u> Built	ition Addenda <u>N/A</u> ition Addenda cements: Replacement, or Modification	Code Case(s) N/A Code Case(s) ASME Code Stamped
<ul> <li>(c) ASME</li> <li>(d) Application</li> <li>19 89 ,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> <li>Piping</li> </ul>	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer	oplicable for Insen on XI Utilized for Addenda <u>N//</u> Co IRSTENERGY N Repaired, Modified Manufacturer Serial No.	vice Inspec Repairs, M <u>A</u> de Case(s) <u>uclear Oper</u> J, or Replac Nat. Board No.	tion: odification, rating Com cement Col Other ID. 1B13- D0008	Ed <u>1989</u> Ed or Replac <u>Dany</u> mponents <u>Year</u> Built	ition Addenda <u>N/A</u> ition Addenda cements: Replacement, or Modification	Code Case(s) N/A Code Case(s) ASME Code Stamped
<ul> <li>(c) ASME</li> <li>(d) Application</li> <li>19 89 ,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> <li>Piping</li> </ul>	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer	oplicable for Insen on XI Utilized for Addenda <u>N//</u> Co IRSTENERGY N Repaired, Modified Manufacturer Serial No.	vice Inspec Repairs, M <u>A</u> de Case(s) <u>uclear Oper</u> J, or Replac Nat. Board No.	tion: odification, rating Com cement Col Other ID. 1B13- D0008	Ed <u>1989</u> Ed or Replac <u>Dany</u> mponents <u>Year</u> Built	ition Addenda <u>N/A</u> ition Addenda cements: Replacement, or Modification	Code Case(s) N/A Code Case(s) ASME Code Stamped
<ul> <li>(c) ASME</li> <li>(d) Application</li> <li>19 89 ,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> <li>Piping</li> </ul>	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer	oplicable for Insen on XI Utilized for Addenda <u>N//</u> Co IRSTENERGY N Repaired, Modified Manufacturer Serial No.	vice Inspec Repairs, M <u>A</u> de Case(s) <u>uclear Oper</u> J, or Replac Nat. Board No.	tion: odification, rating Com cement Col Other ID. 1B13- D0008	Ed <u>1989</u> Ed or Replac <u>Dany</u> mponents <u>Year</u> Built	ition Addenda <u>N/A</u> ition Addenda cements: Replacement, or Modification	Code Case(s) <u>N/A</u> Code Case(s) ASME Code Stamped Yes
<ul> <li>(c) ASME</li> <li>(d) Application</li> <li>19 89,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> <li>Piping</li> </ul>	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer	oplicable for Insen on XI Utilized for Addenda <u>N//</u> Co IRSTENERGY N Repaired, Modified Manufacturer Serial No.	vice Inspec Repairs, M <u>A</u> de Case(s) <u>uclear Oper</u> J, or Replac Nat. Board No.	tion: odification, rating Com cement Con Other ID. 1B13- D0008	Ed <u>1989</u> Ed or Replac <u>Dany</u> mponents <u>Year</u> Built	ition Addenda <u>N/A</u> ition Addenda cements: Replacement, or Modification	Code Case(s) <u>N/A</u> Code Case(s) ASME Code Stamped Yes
<ul> <li>(c) ASME</li> <li>(d) Application</li> <li>19 89,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> <li>Piping System</li> </ul>	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer General Electric	oplicable for Insen on XI Utilized for Insen Addenda <u>N//</u> Co IRSTENERGY Nu Repaired, Modified Manufacturer Serial No. 1B13	vice Inspec Repairs, M A de Case(s) <u>uclear Oper</u> d, or Replac Nat. Board No. 64077	tion: odification, rating Com cement Cor Other ID. 1B13- D0008	Ed <u>1989</u> Ed or Replac <u>pany</u> nponents Vear Built 1984	ition Addenda <u>N/A</u> ition Addenda cements: Replacement, or Modification Replacement	Code Case(s) N/A Code Case(s) ASME Code Stamped Yes
(c) ASME ( (d) Application 19 89, (e) Design Identification Name of Component Piping System	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer General Electric	oplicable for Insen on XI Utilized for Insen Addenda <u>N//</u> Co IRSTENERGY NL Repaired, Modified Manufacturer Serial No. 1B13 	vice Inspec Repairs, M <u>A</u> de Case(s) <u>uclear Oper</u> d, or Replac Nat. Board No. 64077	tion: odification, rating Com cement Col Other ID. 1B13- D0008	Ed <u>1989</u> Ed or Replac <u>pany</u> nponents Vear Built 1984 1984	ition Addenda <u>N/A</u> ition Addenda cements: Replacement, or Modification	Code Case(s) N/A Code Case(s) ASME Code Stamped Yes Yes he Core
(c) ASME ( (d) Application 19 89, (e) Design Identification Name of Component Piping System	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer General Electric	oplicable for Insen on XI Utilized for Insen Addenda <u>N//</u> Co IRSTENERGY NL Repaired, Modified Manufacturer Serial No. 1B13 	vice Inspec Repairs, M <u>A</u> de Case(s) <u>uclear Oper</u> d, or Replac Nat. Board No. 64077	tion: odification, rating Com cement Col Other ID. 1B13- D0008	Ed <u>1989</u> Ed or Replac <u>pany</u> nponents Vear Built 1984 1984	ition Addenda <u>N/A</u> ition Addenda cements: Replacement, or Modification Replacement Cork Orders used, ti	Code Case(s) N/A Code Case(s) ASME Code Stamped Yes Yes he Core
(c) ASME ( (d) Application 19 <u>89</u> , (e) Design Identification Name of Component Piping System	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer General Electric General Electric	oplicable for Inser on XI Utilized for Inser Addenda <u>N//</u> Co IRSTENERGY NI Repaired, Modified Manufacturer Serial No. 1B13 Ms were replaced emoved CRDMs, wws used.	vice Inspec Repairs, M A de Case(s) Jclear Oper d, or Replay Nat. Board No. 64077	tion: odification, ating Composition cement Con Other ID. 1B13- D0008 1B13- D0008 1B13- doi: 1B13-	Ed <u>1989</u> Ed or Replace pany mponents Vear Built 1984 <u>for the W</u> preplacer	ition Addenda <u>N/A</u> ition Addenda cements: Replacement, or Modification Replacement <u>ork Orders used, ti</u> nent CRDMs, and	Code Case(s) N/A Code Case(s) ASME Code Stamped Yes Yes he Core the amount
(c) ASME ( (d) Application 19 <u>89</u> , (e) Design Identification Name of Component Piping System	Code Section XI ap ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer General Electric General Electric of Work: <u>22 CRD</u> al Numbers of the response of new Capscree	oplicable for Inser on XI Utilized for Inser Addenda <u>N//</u> Co IRSTENERGY NI Repaired, Modified Manufacturer Serial No. 1B13 Ms were replaced emoved CRDMs, wws used.	vice Inspec Repairs, M A de Case(s) Jolear Oper d, or Replac Nat. Board No. 64077 d. See She Serial Num	tion: odification, rating Com cement Col Other ID. 1B13- D0008 1B13- D0008 1 1B13- double solution 1 1B13- double solution 1 1 1 1 1 1 1 2 0 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ed <u>1989</u> Ed or Replace ponents Year Built 1984 <u>1984</u> <u>for the We</u> perating F	ition Addenda <u>N/A</u> ition Addenda cements: Replacement, or Modification Replacement <u>ork Orders used, ti</u> nent CRDMs, and	Code Case(s) N/A Code Case(s) ASME Code Stamped Yes Yes he Core

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, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26 20 05
Date May 29, 20 03 Signed FENOC-PNPP QE (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION  I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by Hartford Steam Boiler Ct of Hartford, Conn have
inspected the repair, modification or replacement described in this report on MAY 31 2003 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 MAY31, 20 03 Signed Thrmas & Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

£

ć

÷..;

1813-037 SHT. 26 46

Work Order Number	Core Location	S/N Removed	S/N Installed	# of New Capscrews	Heat Number	SAP Order #
02-07927, R-0	D5047	A5715	A5110	. 8	F190	200000050
03-00862, R-0	D5439	A4182	A4670	8	13433	200009893
01-16641,R-0	D0227	A5169	A5656	- 8	13485	200009789
01-16706, R-0	D3419	A4172	A3990	8	13628	200009984
01-10780, R-0	D2219	A5054	A2468	8	13485	200004527
01-16701, R-0	D2231	A5510	A5283	8	13485	200009914
01-16305, R-0	D3027	A1639	A3703	8	13630	200009513
01-16718, R-0	D5051	A5692	A5154	. 8	13629B	200010217
01-16703, R-0	D2635	A4218	A2213	8	13485	200009932
02-07928, R-0	D1819	A5237	A4434	8	13630	200000071
01-16709, R-0	D3807	A3498	A3551	8	13628	200010027
01-16710, R-0	D3811	A3895	A5699	8	13628	200010064
01-16714, R-0	D4635	A5389	A5451	8	13433	200010138
01-16708, R-0	D3451	A4664	A4218	8	13629B	200010026
01-16698, R-0	D1419	A2257	9253	8	13485	200009857
01-16705, R-0	D2655	A5427	A6472	8	13433	200009961
01-16642, R-0	D0631	A4266	A4189	8	13485	200009813
01-16713, R-0	D4235	A5354	A4269	8	13629B	200010117
01-16704, R-0	D2643	A4117	A5681	8	13485	200009950
01-16712, R-0	D3851	8964	A5124	8	13630	200010097
•	D3819	A4250	A5568	8	13433	200010065
01-16716, R-0 I	D4647	A4537	A4740	8	13629B	200010178

	Sheet 1 of 2
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. As required by the Provision of the ASME Code Rules. Section III. Div. 1 (1813-037)
	$7^{-1} = 7$
	( SHT. 3 of 46
	General Flectric Company, Castle Havne Rd., Wilmington, N.C.
1.	(s) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. (Name and address of NPT Certificate Holder)
	(b) Manufactured for General Electric Company, San Jose, California (NEBG)
	(Name and address of N Certificate Holder for completed Ructear component)
2.	Identification-Certificate Holder's Serial No. of Part A5110Nar'l Bd. No
	(a) Constructed According to Drawing No Drawing Prepared by D. L. Paterson
	(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
	(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 Lass 1
	(c) Applicable ASME Code: Section III, Edition, Addenda date, Case NoClass
	Remarks: Standard part for use with Reactor. Eydrostatically tested at 1820 psi.
4	Remarks:
	* Total number of sheets - 2
	e Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is a used in the component Design Specification and Stress Report.)
cati aci	Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is inded in the component Design Specification and Stress Report.) 7/24 19 81 Signed <u>GE, NEPD-WHD-QA</u> By <u>Utoublemmus</u>
aci aci	e Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is inded in the component Design Specification and Stress Report.) 7/24 19 81 Signed <u>GE</u> , NEPD-WHD-QA By <u>Utoutlemmu</u>
aci aci	Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is in <u>7/24</u> 19 81 Signed <u>GE</u> , NEPD-WHD-QA <u>ChtPT Certificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151</u>
aci aci	Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is inded in the component Design Specification and Stress Report.) 7/24 19 81 Signed <u>GE, NEPD-WHD-QA</u> By <u>Utoublemmus</u>
ation of the second sec	Holder for appurtemances is responsible for furnishing a separate Design Specification and Stress Report if the appurtemance is inded in the component Design Specification and Stress Report.) <u>7/24</u> 19 81 Signed <u>GE, NEPD-WHD-QA</u> (NPT Certificate of Authorization No. <u>NPT N-1151</u> cificate of Authorization Expires <u>September 15, 1981</u> Certificate of Authorization No. <u>NPT N-1151</u> CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C.
Car Car	Holder for appurtemances is responsible for furnishing a separate Design Specification and Stress Report if the appurtemance is inded in the component Design Specification and Stress Report.) <u>7/24</u> 19 81 Signed <u>GE, NEPD-WHD-QA</u> (NPT Certificate of Authorization No. <u>NPT N-1151</u> CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) Design information on file ac
Cer	E Holder for appurtemances is responsible for furnishing a separate Design Specification and Stress Report if the appurtemance is inded in the component Design Specification and Stress Report.)          e
	E Holder for appurtemances is responsible for furnishing a separate Design Specification and Stress Report if the appurtemance is inded in the component Design Specification and Stress Report.)          7/24       19       81       Signed       GE, NEPD-WHD-QA       By       Utbullennuc         (NPT Certification 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-WHD-QA, Castle Hayne Rd., Wilmington, N.C.         22A5556, Rev. 2.         Scress analysis report on file at GE, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C.         22A4912, Rev. 2
	E Holder for appurtemances is responsible for furnishing a separate Design Specification and Stress Report if the appurtemance is inded in the component Design Specification and Stress Report.)          7/24       19       81       Signed       GE, NEPD-WHD-QA       By       Utbutlemmu:         (NPT Certification Expires_September 15, 1981         Certificate of Authorization No.         NPT N-1151         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         Certificate of Authorization No.         OPENIES         GE, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C.         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         Certificate of Authorization No.         OPENIES         OPENIES         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         Design information on file at         GE, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C.         Scress analysis report on file at GE, NEPD-WHD-OA, Castle Hayne Rd., Wilmington, N.C.
	<ul> <li>Holder for appartenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is indeed in the component Design Specification and Stress Report.)</li> <li>7/24 19 81 Signed <u>GE</u>, NEPD-WHD-QA By <u>Uttoutlumuu</u> (NPT Caruffess Holder)</li> <li>curres <u>September 15, 1981</u> Certificate of Authorization No. <u>NPT N-1151</u></li> <li>CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)</li> <li>GE, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C.</li> <li>22A5556, Rev. 2.</li> <li>Scress analysis report on file at <u>GE</u>, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C.</li> <li>22A4912, Rev. 2</li> <li>Design specifications certified by <u>E. N. Sridhar</u> Prof. Eng. Scare <u>Calif</u> Reg. No<u>18345</u></li> </ul>
	E Holder for appurtemances is responsible for furnishing a separate Design Specification and Stress Report if the appurtemance is indeed in the component Design Specification and Stress Report.)          7/24       19       81       Signed       GE, NEPD-WHD-QA       By       Utbullennuc         (NPT Certification 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-WHD-QA, Castle Hayne Rd., Wilmington, N.C.         22A5556, Rev. 2.         Scress analysis report on file at GE, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C.         22A4912, Rev. 2
	a Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is inded in the component Design Specification and Stress Report.)          maintenance       7/24       19       81       Signed       GE, NEPD-WHD-QA       By       Cutoulumu:         (NPT Caruthese Holder:         tificate of Authorization Expires         September 15, 1981       Certificate of Authorization No.         NPT N-1151         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         Certificate of Authorization on file st         GE, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C.         22A5556, Rev. 2         Scress analysis report on file at GE, NEPD-WHD-OA, Castle Hayne Rd., Wilmington, N.C.         22A4912, Rev. 2         Design specifications certified by B. N. Sridhar         Prof. Eng. Scate Calif Reg. No.18345         Scress analysis report certified by B. N. Sridhar         Prof. Eng. Scate Calif Reg. No.18345
	<ul> <li>Holder for appartenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is indeed in the component Design Specification and Stress Report.)</li> <li>7/24 19 81 Signed <u>GE</u>, NEPD-WHD-QA By <u>Uttoutlumuu</u> (NPT Caruffess Holder)</li> <li>curres <u>September 15, 1981</u> Certificate of Authorization No. <u>NPT N-1151</u></li> <li>CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)</li> <li>GE, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C.</li> <li>22A5556, Rev. 2.</li> <li>Scress analysis report on file at <u>GE</u>, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C.</li> <li>22A4912, Rev. 2</li> <li>Design specifications certified by <u>E. N. Sridhar</u> Prof. Eng. Scare <u>Calif</u> Reg. No<u>18345</u></li> </ul>
	E Holder for appartenances is responsible for furnishing a separate Design Specification and Stress Report if the appartenance is in marked in the component Design Specification and Stress Report.) The component Design Specification and Stress Report. (The component Design Specification Specification No. NPT N-1151 The specification on file at GE, NEPD-WeD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2 Seress analysis report on file at GE, NEPD-WED-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by <u>B. N. Sridhar</u> CERTIFICATE OF SHOP INSPECTION L, the andersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors Seress Analysis report certified by a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors CERTIFICATE OF SHOP INSPECTION L, the andersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors CERTIFICATE OF SHOP INSPECTION
	E Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is in wided in the component Design Specification and Stress Report.) =
	e Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is in tuded in the component Design Specification and Stress Report.) =
	E Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is in wided in the component Design Specification and Stress Report.) =
	E Holder for experienances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is indeed in the component Design Specification and Stress Report.)
	E Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is in used in the component Design Specification and Stress Report.) T/24 19 81 Signed GE, NEPD-WHD-QA By Utoulumu: CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) Cesign information on file at GE, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2. Socras easilysis report on file at GE, NEPD-WHD-OA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No.18345 State of Province of Morth Carolina and employed by Department of Labor 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 Morth Carolina and employed by Department of Labor Perfusion Report on State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on State Holder has constructed this part in accordance with the ASME Code Section III. Perfusion of a state that to the best of my knowledde and state that to the best of my knowledde and state that to the best of my knowledde has bayed and state that to the best of my knowledde in this Partial Data Report and state that to the conserved on and state on the aspector sore his employed and state that to the other of my knowledde in this Partial Data Report of a conserved of a state of a state of a state of a pressure reseal described in this Partial Data Report of a conserved of a state
	E Holder for apportenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is r used in the component Design Specification and Stress Report.) =
	a Holder for appurtuances is responsible for furnishing a separate Design Specification and Stress Report if the appurtuance is response Design Specification and Stress Report if the appurtuance is response to the separate set of the appurtuance is response to the separate set of the appurtuance is response to the separate set of the appurtuance is response to the set of the set of the appurtuance is response to the set of the set
	7/24 19 81 Signed GE, NEPD-WHD-QA By Utouthumu: (NPT Ceruscess Holder) CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WHD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2. Soress assignis report on file at GE, NEPD-WHD-OA, 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 Save or Province of North Carolina and employed by Department of Labor State of North Carolina have impected the part of a pressure vessel described in this spectra for a part described in this spectra of the subsector so this employer makes on y warmany, expressed or implication in the source of the subsector so this employer ackes of y warmany, expressed or implication or this employer with the ASWE Code Section III. By Ling the certificate Holder has constructed this part in accordance with the ASWE Code Section III. By and state that to the best of my knowledge in the part described in this appection.

(10/77)

\*Templomontal shorts at form of facts, aborches or provided may be used provided (1) size in TV" & TL", (2) information at items include Sub-Answer at include of each short, and its each short is analytering in include in stat. "Analyte" (10/77)
This form (E00040) may on optiming from the Order Dept. ASME: 375 C. 11767 St., New York, N.Y. 10017 

•. .

FORM N-2 (back)	FOR	M N-2	2 (ba	·k)
-----------------	-----	-------	-------	-----

•

4,	Shell:	Material(Kinth 3	T.S Spee. No.) (M	N T In. of Range	lominal hickness Specified)	Corn _ in. Allo	osion wance in.	Dia f	it i	a. Length_	ft,
5.	Senas	Long		1.T. <sup>1</sup>		_ R.T	···	Efficienc	y		_ 7.
		Girch		1.T.'		. R.T		No. of Ca	wses		
6.	Headsi	(a) Material .			T.S		(b) Materia	ul		T.S	
		Location		Crown	Koucile	Elliptical				Flat	Side to Pro
	(Top)	, bettost, ende)	Thickness	Redius	Redius	Ratio	Apez Angle	Radiu	48	Diamater	(Conv. ar Co
	()		· · · · · · · · · · · · · · · · · · ·		· ·						
	(5)		·				<u> </u>	<u> </u>			•
		vable, bolts u	sed		No., T.J., Size		Other fast	eniag		cribe or stta	ch sketch)
7.	Jacket	Closure:					, if boiled, descri				
	•	(Descr	the as ogen an	dweld, bar, i	rte. if bar give	dimensions,	, if boiled, descri				
									Charpy	lafosct	
8.	Design	pressure3	1250	•	psi se		575				
							Thick				
10.	Tubes:	Material		_ O.D	ia. Thi	ckness	inches	Number		Type	·
											(Str. or U)
11.		(Kind & St	T.S	Ni The of Range Sp	ominal hickness	Corre in. Allow	els, or channel osioa wancein.	Dia	6i	Length_	
11.		(Kind & St	T.ST.S pee. No.) (Mir	N. The of Range St	omin <b>al</b> hickness pecified)	Corre _ia. Allov _R.T	osioa Nanceia.	Dia fr		a. Length_	_ 7
11.	Senas;	(Kind & St Long	T.S pee. No.) (Mis f		ominal hickness pecified)	Corre	osioa #aceia.	Dix fr Efficiency No. of Con	ur se s	a. Length_	_5
11.	Senas;	(Kind & St Long	T.S pee. No.) (Mis f		ominal hickness pecified)	Corre	osioa Nanceia.	Dix fr Efficiency No. of Con	ur se s	a. Length_	_5
11.	Seams; Heads	(Kind & Sy Long Girth (a) Material	T.S pec. Né.) (Mis h	N. T. J. Range S; I. T. <sup>1</sup> I. T. <sup>1</sup> Crown	ominal hickness pocified) T.S Xnuczie	Corre in. Allov _ R.T _ R.T Elliottest	osioa manceia. (b) Material Concel	Dis fi Efficiency No. of Con Hemispho	to if / //// SE S /// CB1		Side to Pro
11.	Seams: Heads	(Kind & S Long Girth (a) Material_ Location	T.S pec. No.) (Mix H	N. T L al Range Sr I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	ominal hickness pocified) 	Corre	osion mancein. idj Material Contral Apez Angle	Dia, fi Efficiency Na. of Cou Hemapho Redlu	4	. Length_ T.S Flat Diameter	Side to Pro- (Conv. or Co
11. 12. 13.	Seams: Heads (a) Top,	(Kind & St Long Girth (a) Material Location , bottom, ends	T.S pee. No.) (Mis f f f f	N. T. al Range Sr I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	ominal hickness pecified)     	Corre	(b) Material Conceat Apex Angle	Dis fr Efficiency No. of Con Hemaphe Rediu	t if / tit 56 3 meni 8	T.S.	Side to Pro (Conv. or Co
11. 12. 13.	Seams: Heads (a) Top,	(Kind & St Long Girth (a) Material Location , bottom, ends	T.S pee. No.) (Mis f f f f	N. T. al Range Sr I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	ominal hickness pecified)     	Corre	(b) Material Conceat Apex Angle	Dis fr Efficiency No. of Con Hemaphe Rediu	t if / tit 56 3 meni 8	T.S.	Side to Pro (Conv. or Co
11. 12. 13.	Seams: Heads (a) Top,	(Kind & St Long Girth (a) Material Location , bottom, ends	T.S pee. No.) (Mis f f f f	N. T. al Range Sr I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	ominal hickness pecified)     	Corre	(b) Material Conical Apex Angle	Dia fi Efficiency No. of Cou Hemisphe Redu Ler fasteni	t if / if / if / if / if / if / if / if / if	T.S Flat Diameter	Side to Pro (Conv. or Co
11. 12. 13.	Seams: Heads (a) Top,	(Kind & St Long Girth (a) Material Location , bottom, ends	T.S pee. No.) (Mis f f f f	N. T. al Range Sr I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	ominal hickness pecified)     	Corre	(b) Material Conceat Apex Angle	Dia fr Efficiency Na. of Con Hemisphe Redu Let fasceni	t if / mest s  ing Drop Wei	T.S Flat Diameter	Side to Pro (Conv. or Co
11.	Seams: Heads (a) Top, (b) Char If remov	(Kind & St Long Girth (a) Material Location , bottom, ends	T.S pee. No.) (Mis f f f f	N. T. al Range Sr I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	T.S Xnuczie Redius	Corre	(b) Material Conceat Apen Angle	Dis fr Efficiency No. of Con Hemaphe Redlu Ler fasceni C	t if / mest s  ing Drop Ver Tharpy I	T.S Flat Diameter	Side to Pro (Conv. or Co
11.	Seams: Heads (a) Top, (b) Char If remov	(Kind & Sy Long Girth (a) Material (a) Material (a) Material (a) Material (b) Material (a) Material (b) Material (b) Material (c) Material	T.S pee. No.) (Mis f f f f	N. T. al Range Sr I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	T.S Xnuczie Redius	Corre	(b) Material Conceat Apen Angle	Dis fr Efficiency No. of Con Hemaphe Redlu Ler fasceni C	t if / mest s  ing Drop Ver Tharpy I	T.S Flat Diameter escrube or a ight	Side to Pro (Conv. or Co
11.	Seams: Heads (a) Top, (b) Chae If remov Design	(Kind & Sy Long Girth (a) Material (a) Material (a) Material (a) Material (b) Material (a) Material (b) Material (b) Material (c) Material	T.S pee. No.) (Mis f 	N. T. T. T. T. T. T. T. Crown Radius (1)	T.S Xnuczie Redius	Corre	(b) Material Conceat Apen Angle	Dis fr Efficiency No. of Con Hemaphe Redlu Ler fasceni C	t if / mest s  ing Drop Ver Tharpy I	Length_ T.S Flat Diameter  rescribe or a ight of	
11. 12, 13.	Seams: Heads (a) Top, (b) Char If remov Design s below	(Kind & Sy Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>3</sup> to be complet	T.SPoet. No.) (Mis h h Thicknoss  ied (a) ed for all ve	N. T. S ( Ronge 5 I. T. <sup>1</sup> Crown Radius (1) (1) Crown (1) (1) (1) (1) (1) (1) (1) (1)	T.S Xnuczie Redius psi ac e applicable	Corre	osioa manceia. ib) Material Conical Apox Angle Oth	Dis fr Efficiency No. of Con Hemaphe Redlu Ler fasceni C	t if / mest s  ing Drop Ver Tharpy I	T.S Flat Diameter escrube or a ight	
11. 12, 13. Item	Seams: Heads (a) Top, (b) Char If remov Design s below	(Kind & Sy Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>1</sup> to be complet Vaive Outlets	T.SPoet. No.) (Mis h h Thicknoss  ied (a) ed for all ve	N. T. S ( Ronge 5 I. T. <sup>1</sup> Crown Radius (1) (1) Crown (1) (1) (1) (1) (1) (1) (1) (1)	T.S Xnuczie Redius psi ac e applicable	Corre	osioa manceia. ib) Material Conical Apox Angle Oth	Dis fr Efficiency No. of Con Hemaphe Redlu Ler fasceni C	t if / mest s  ing Drop Ver Tharpy I	Length_ T.S Flat Diameter  rescribe or a ight of	
11. 12, 13. Item	Seams: Heads (a) Top, (b) Char If remov Design s below	(Kind & St Long Girth (a) Material Location , bottom, ends anet vable, bolts us pressure <sup>1</sup> to be complet Valve Outlets:	T.SPoet. No.) (Mis h h Thicknoss  ied (a) ed for all ve	N. T. S ( Ronge 5 I. T. <sup>1</sup> Crown Radius (1) (1) Crown (1) (1) (1) (1) (1) (1) (1) (1)	T.S Xnuczie Redius psi ac e applicable	Corre	osioa manceia. ib) Material Conical Apox Angle Oth	Dis fr Efficiency No. of Con Hemaphe Redlu Ler fasceni C	tir 	Length_ T.S Flat Diameter  rescribe or a ight of	
11. 12, 13. Item	Seams: Heads (a) Top, (b) Char If remov Design s below Safety V Nozzles	(Kind & Sy Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>1</sup> to be complet Vaive Outlets: El + (niet,	T.SPoet. No.) (Mis h h Thicknoss  ied (a) ed for all ve	N. T. S ( Ronge 5 I. T. <sup>1</sup> Crown Radius (1) (1) Crown (1) (1) (1) (1) (1) (1) (1) (1)	ominal hickness pocified)  Xnuckie Redius   psi at e applicable Size	Corre	osioa manceia. ib) Material Conical Apox Angle Oth Oth Oth	Dis fr Efficiency No. of Con Hemaphe Redlu Ler fasceni C	tein urses ricell a ing Drop Ver harpy I te remp. Reinfo	Length_ T.S Flat Diameter  igbe of	
11. 12, 13. Item	Seams: Heads (a) Top, (b) Char If remov Design Safety V Nozzles Purpood	(Kind & Sy Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>1</sup> to be complet Vaive Outlets: El + (niet,	Thicknoos	N. T a <i>d</i> <b>R</b> brge 5 <b>1</b> . T. <sup>1</sup> Crown Radius (b ssels when	ominal hickness pocified)  Xnuckie Redius   psi at e applicable Size	Corre	osioa manceia. ib) Material Conical Apox Angle Oth Oth Oth	Dia fi Efficiency No. of Cou Hemisphe Redu  her fasteni C  	tein urses ricell a ing Drop Ver harpy I te remp. Reinfo	. Length_ 	
11. 12, 13. Item	Seams: Heads (a) Top, (b) Char If remov Design Safety V Nozzles Purpood	(Kind & Sy Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>1</sup> to be complet Vaive Outlets: El + (niet,	Thicknoos	N. T a <i>d</i> <b>R</b> brge 5 <b>1</b> . T. <sup>1</sup> Crown Radius (b ssels when	ominal hickness pocified)  Xnuckie Redius   psi at e applicable Size	Corre	osioa manceia. ib) Material Conical Apox Angle Oth Oth Oth	Dia fi Efficiency No. of Cou Hemisphe Redu  her fasteni C  	tein urses ricell a ing Drop Ver harpy I te remp. Reinfo	. Length_ 	
11. 12. 13. 14. Item 15. 16.	Seams: Heads (a) Top, (b) Char If remov Design Safery M Nozzles Purpase Outlet,	(Xind & Sp Long Girth (a) Material Location , bottom, ends nael vable, bolts us pressure <sup>1</sup> to be complet Valve Ouclets: R o Inlet, Drumi	Thickness Thickness Thickness I and the second seco	N. TT Ta at Range Sr I. T. <sup>1</sup> Crown Radius (1) szels wher Dia. or Size	ominal hickness poctfled)  Xnuckle Redius  psi at e applicable Size Type	Corre	osioa Banceia. ib; Material Conteal Apex Angle Oth Ot	Dia fr Efficiency No. of Cor Hemospho Redlu      	tir write SES write SES write SES write SES write SES set SES write SES set SES write SES set SES write SES set SES write SES set SES write SES set SES write SES write SES set SES write SES set SES write SES set SES set SES write SES set SES write SES set SES set SES set SES set SES write SES set	Length_ 	Side to Pro (Conv. or Co 
11. 12. 13. 14. Item 15. 16.	Seamas: Heads (a) Top, (b) Char If remov Design Safery V Nozzles Purpase Outlet, Inspecti	(Kind & St Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>1</sup> to be complet Valve Outlets: St o Inlet, Drum:  ion Manhoies	T.SF	N. TT I. al Range Sr I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius  (t ssels wher Dia. or Sist	ominal hickness poetfled)  Xnuckle Redius  psi at e applicable Size Type 	Corre	Diana Sina Sina Sina Sina Sina Sina Sina	Dia fr Efficiency No. of Con Reduction Reduction Control Control	ke se s	Length_ 	Side to Pro (Conv. or Co 
11. 12. 13. 14. Item 15. 16.	Seamas: Heads (a) Top, (b) Char If remov Design Safery V Nozzles Purpase Outlet, Inspecti	(Xind & St Long Girth (a) Material Location , bottom, ends nael vable, bolts us pressure <sup>3</sup> to be complet Vaive Outlets: value Outlets: value, bolts us pressure <sup>3</sup> to be complet value Outlets: st or man	T.SF	N. 	ominal hickness pecified) T.S Xnuczie Redius  psi at e applicable Size e Type  ze	Corre		Dia fr Efficiency No. of Con Reduction Reduction Control Control	ke se s	Length_ 	Side to Pro (Conv. or Co 

		REPORT NO. P0059-009
	- FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPO As required by the Provision of the AS	Sheet 2 of 2 RT FOR NUCLEAR PART AND APPURTENANCES• ME Code Rules. Section III. Div. 1 $\leq 1813-037$ $\leq \mu r$ , $446$ $445$
1. (m) Ma	anufactured by General Electric Company, Ca	stle Hayne Rd., Wilmington, N.C.
(b) Ma	anufactured for General Electric Company, Sa	n Jose, California (NEBG)
2. Identi	(Name and address of N C fication-Certificate Holder's Serial No. of Part A511	0Nat'l Bd. No
(s) C	Constructed According to Drawing No. 768E534G001	Drawing Prepared by
(b) D	Description of Part Inspected Control Rod D	
	- light and a sub-	N207 nda dateW'75, Case No. <u>1361-2</u> Class1_
(C) A	pplicable ASME Code: Section III, Edition, Adde	ada date, Case No
	•	
1.	Cap 166B9274P1	
•	(167A2343)	Code weld
	SA182 - F316 3/8 thick x 1 1/16 0D	PSOYP102
	Syo shick x i ly to ob	
2.	Indicator Pipe 16689313P1	
	SA312-TP316	
	3/4 sch 40-seamless pipe	
	0.113 wall thickness	
	1.065 max. dia.	Reactor vessel
-	D1	thimble 1   1
3.	Plug 159A1176P1 SA182-F304	
•	1/4 thick x 0.812 0D	
		3- hard III II Hard
4.	Flange 919D610P1 (719E474)	Çode weld
	SA182-F304	
	3.37 thick x 9 5/8 0D	
	neck 1 1/16 thick x 5.0 OD 2.875 ID	
•	2.0/5 10	
5	Base 13705311P1	
	XM-19 ASME SA479	
	3.0 OD x .884 ID	
		VT HILL
6.	Ring Flange 11485122P2	
	SA182-F304	L_Code weld
	1" thick x 5.0 OD x 1.75 ID	P50YP102
_	•	
7.	Cap Screw 117C4516P2	CONTROL ROD DRIVE
	SA193-B6 6 ea. 1/2 dia. on 4 1/8 bolt circle	DHG - 768E534
8.	Plug 175A7961P1	9. Nut 137C5934P1 U-520
~ * *	SA182-F304	IM-19 SA479 1.30 thick x 2.62 dia.
	0.38 thick x 1.307 dia.	1.30 LILICE X 2.02 G18.
		l de la companya de l
		• •

	Sheet 1 of 2
J. 2	2
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT	
As required by the Provision of the ASME	E Code Rules, Section III. Div. (1813-037 SUT. 5 K 46)
	SHI 2 8 401
	iress of NPT Certificate Holder)
(b) Manufactured for General Electric Company, San	Jose, California (NEBG)
(Name and address of N Certificate Holder's Serial No. of Part A46	Scate Holder for completed nuclear component: 70Nar'l Bd. No
(a) Constructed According to Drawing NoD	D. L. Peterson
(b) Description of Part Inspected Control Rod Drive, M	Iode1 #7RDB144DG001
(c) Applicable ASME Code: Section III, Edition, Addende	N207 s date <u>W'75</u> , Case No. <u>1361-2</u> Class <u>1</u>
Remarks: Standard part for use with Reactor. H	ivdrostatically tested at 1820 psi.
(Brief description of service fo	r which component was designed)
* Total number of sheets - 2	· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	
·	
cluded in the component Design Specification and Stress Report.)	
ercificate of Authorization Expires June 16, 1981	By
ertificate of Authorization Expires GE, NEPD-WMD (NPT Certificate Holder) June 16, 1981 CERTIFICATION OF DESIGN FOR APPU	_ Certificate of Authorization No
CERTIFICATION OF DESIGN FOR APPU	_ Certificate of Authorization No
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2	- Certificate of Authorization No JRTENANCE (when applicable) layne Rd., Wilmington, N.C
CERTIFICATION OF DESIGN FOR APPU Design information on file at GE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file at GE, NEPD, San Jose, O	- Certificate of Authorization No JRTENANCE (when applicable) layne Rd., Wilmington, N.C
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2	- Certificate of Authorization No JRTENANCE (when applicable) layne Rd., Wilmington, N.C
CERTIFICATION OF DESIGN FOR APPU Design information on file arGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San Jose, O 22A4912, Rev. 2	- Certificate of Authorization No JRTENANCE (when applicable) Havne Rd., Wilmington, N.C Calif.
Design information on file at GE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file at GE, NEPD, San Jose, C 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar	Certificate of Authorization No
CERTIFICATION OF DESIGN FOR APPU Design information on file arGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Scress analysis report on file atGE, NEPD, San Jose, C 22A4912, Rev. 2 Design specifications certified byB. N. Sridhar Stress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOP I, the undersigned, holding a valid commission issued by the Na and/ot the State of Province of <u>North Carolina</u> and employ	Certificate of Authorization No
CERTIFICATION OF DESIGN FOR APPU Design information on file at GE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file at GE, NEPD, San Jose, C 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Stress analysis report certified by B. N. Sridhar CERTIFICATE OF SHOP I, the undersigned, holding a valid commission issued by the Na and/ot the State of Province of <u>North Carolina</u> and employ	Certificate of Authorization No
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San Jose, C 22A4912, Rev. 2 Design specifications certified byB. N. Sridhar Stress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOP I, the undersigned, holding a valid commission issued by the Na and/or the State of Province of <u>North Carolina</u> and employ ofState of North Carolina have jagger Partial Data Report on6712 and belief, the NPT Certificate Holder has constructed this part in accord By signing this certificate, seither the Inspector nor his employ Ins the part described in this Partial Data Report. Furth	Certificate of Authorization No

"Supplemental sheets in form of lists, sketches or drawings may be used pravides (1) size is 6%" z 11", (2) information in items 1+2 on this But Rown is included at out sheet, and (2) out wheet is 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. 1091980

÷.

REPORT NO. P0059-009

ends: (Top, ) remov cket ( esign be Sh ubes: (1-14 eil: 1	Long Girth (a) Materi Location , bottom, en vable, bolt Closure: rable, bolt Closure: pressure <sup>3</sup> 10 to be co teers: Stat Floa Material inct. to b	al to) Thickne s used(h recribe on ogen 1250 completed for ( consry. Materi ting. Materi ting. Materi ting. Materi	H.T. <sup>1</sup> H.T. <sup>1</sup> Crows Radiu Radiu Crows Crows Radiu Crows Crows Radiu Crows Cr	T.S Rouckle Radue  z. Ne., T.S., Si r, etc. 11 bar gu psi as psi as Di Nominal Di Nominal	in. Allo R. T Elliptical Ratio  ss, Number) ve dimensions at ia (Subject to ia cketed vess/	(b) Materi Conical Apez Angle  Other fast  other fast   575  575   pressure Thic  tiches	Efficiency No. of Courses al Hemispherical Radius ening ening ening charp  Charp  Charp  charp  kness . Number Is of hest excha	Fist Diamotor Diamotor Secribe or star Veight y inspace y inspace httachment for achment Type Aget 3.	Side to Press, (Cenv. or Cone. 
(Top, )) remov cket ( ) and ) and ) and the Sh ubes: (1-14 eil: )	Girth (a) Materi Location , bottom, on vable, bolt Closure: (Dr pressure <sup>3</sup> 10 to be co recess State Floa Material inct. to b	al to) Thickne s used (b) tecribe on ogen 1250 completed for the ting, Materia ting, Materia ting, Materia transferred for the transferred for the trans	_H.T. <sup>1</sup> Crows Reduction Reduction Contential, Spectron and world, base rube section isl (Kind & Single Contention (Kind & Single Contention) (Kind & Single Contention)	T.S R. Kauckie s. Radius 	R.T Elliptical Ratio  se, Number) ve dimensions at is (Subject to is hickness cketed vess/	(b) Materi Conical Apez Anglo 	No. of Courses al Hemispherical Radius ening (De the or sketch) Orop 1 Charp  Charp  Knessin. A . Number Is of hest excha	T.S	3ide te Press,         (Ceav. or Cone,         eh eketch)         eh eketch)         (Telded, Balted)         (Sw. or U)
(Top, ) remov cket ( ) and bbe Sh bbe Sh ubes: (1-14	(a) Materi Location , bottom, on vable, bolt Closure: (Di pressure <sup>3</sup> 10 to be ci teers: Stati Floa Material inct. to b	al to) Thickne s used(h scribe en egee 1250 pmpleted for ( ting, Materi ting, Materi ting, Materi ting, T.S	Crows Rediu Rediu Cotorisi, Species and wold, bas sube section isl (Kind & S isl O.D of inner ch)	T.S Renotices Radius Radius 	Etiliptical Ratio	(b) Materi Conical Apez Angle Other fast Other fast of boited, descr 575 575 575 Thic pressure Thic conical	al Hemispherical Radius ening (De ibe or sketch) Drop 1 Charp; OF at tem :knessin. A :knessin. A :knessin. A	T.S Flat Dlametor Jecribe or attac Veight y Inspact y Inspact Attachment Letachment Aget 3.	Side to Press. (Canv. or Cone. 
(Top, ) remov cket ( ) and bbe Sh bbe Sh ubes: (1-14	(a) Materi Location , bottom, on vable, bolt Closure: (Di pressure <sup>3</sup> 10 to be ci teers: Stati Floa Material inct. to b	al to) Thickne s used(h scribe en egee 1250 pmpleted for ( ting, Materi ting, Materi ting, Materi ting, T.S	Crows Rediu Rediu Cotorisi, Species and wold, bas sube section isl (Kind & S isl O.D of inner ch)	T.S Renotices Radius Radius 	Etiliptical Ratio	(b) Materi Conical Apez Angle Other fast Other fast of boited, descr 575 575 575 Thic pressure Thic conical	al Hemispherical Radius ening (De ibe or sketch) Drop 1 Charp; OF at tem :knessin. A :knessin. A :knessin. A	T.S Flat Dlametor Jecribe or attac Veight y Inspact y Inspact Attachment Letachment Aget 3.	Side to Press, (Canv. or Conc 
) remov cket ( ) and ) and hobe Sh hobes: (1-14 eil: )	vable, bolt vable, bolt Closure: (Di pressure <sup>3</sup> 10 to be co teers: State Float Material inct. to be	s used(k mernbe an agee 1250 ompleted for a consty. Materi ting. Materi ting. Materi ting. Materi	taterial, Spea and weld, bar tube section ial (Kind & S ial or inner ch	s Radius 	Ratio Ratio SS, Number) ve dimensions at is (Subject to ia cketed vess Corr	Apes Angle Other fast Other fast Other fast  575 Thic _Thic Thic _Thic Thic Thic Thic Thic Thic Thic Thic	Radius ening	Diameter Diameter Secribe or stra Veight y Inspact p. of Attachment Cetachment Metachment	(Canv. or Cone 
cket ( esign ) and obe Sh ubes:	rable, bolt Closure: (Di pressure <sup>2</sup> 10 to be c teers: Stat Floa Material inct. to b	s used(k incrube en egee 1250 peopleted for a ionary. Materi ting, Materi ting, Materi trompleted (	taterial, Spec and wold, bar tube section ial (Kind b : ial O.D or inner ch:	2. No., T.S., Si r, etc. If bar get psi 4 as Spec. No.) D in. The smbers of jac Nominal Thickness	ss, Number) ve dimensions at is (Subject to is hickness cketed vesso Corr	Other fast	ening(De (De or skotch) Drog V Charp F 24 ten :knessin. A :knessin. A :knessin. A :knessin. A	Veight Veight y Idpact p, of Attachment Type Aget 3.	(Veided, Beited) (Veided, Beited)
remov cket ( ssign ) and ube Sh ubes: (1-14 eil: )	vable, bolt Closure: pressure <sup>2</sup> 10 to be c teets: State Floa Material inct. to b	s used(h veribe as egee 1250 papleted for consity. Materi ting. Materi t completed f	and weld, bas and weld, bas tube section isl	e. No., T.S., Si r, etc. If bar giv psi i as Spec. No.) D in. Th smbers of jav Nominal Thickness	ss, Number) ve dimensions af ia ia hickness cketed vess	Other fasz , if bolted, descr 575 Thic Thi	(De ibe or sketch) Drop 1 Charp F 24 ten :kness in. A :kness in. A . Number Is of heat excha	Veight Veight y Idopact p. of Attachment Construction Type Aget3.	(Veided, Beited) (Veided, Beited)
cket ( rsign ) and ube Sh ubes: (1-14 eil: 1	Closure: (Di pressure <sup>3</sup> 10 to be ci nects: State Floa Material inct. to be	(h seenbe as ages 1250 ompleted for consty. Materi ting, Materi e completed f	enterial, Species and wold, bas sube section (Kind & S (Kind & S (a) O.D for inner ch)	e. No., T.S., 3i r, etc. If bar giv psi i as Spec. No.) D in. Th smbers of ja- Nominal Thickness	ve dimensions at ia (Subject to ia hickness Cketed vess	575 575 Thic pressure Thic control of gage	(De ibe or sketch) Drop 1 Charp F 24 ten :kness in. A :kness in. A . Number Is of heat excha	Veight Veight y Idopact p. of Attachment Construction Type Aget3.	(Veided, Boltod)
esign and abe Sh abest abest all-14	(De pressure <sup>3</sup> _ 10 to be co necess Scan Floa Material inct. to be Material	1250 Despleted for a conserv. Materi ting, Materi e completed f	tube section ial (Kind a : ial O.D for inner ch:	as <u>spee. Ne.</u> <u>D</u> <u>in.</u> <u>smbers of jac</u> <u>Nominal</u> <u>Thickness</u>	is is (Subject to is hickness cketed vess	575 Thic pressure; Thic Thic tiches els, or changed	Drog 1 Charp F 26 tem :kness in. A :kness in. A :kness in. A :kness in. A :kness in. A	y Idpact p. of Attachment Attachment Metachment Type Aget 3.	(\$4. or U)
be sh ibest i1-14 eil:	10 to be co nects: State Floa Material inct. to be Material	ompleted for a constry. Materi ting. Materi t completed ( T.S	tube section isl (Kind & S isl O.D for inner ch	as Spee. Ne.) D D ambers of ja- Nominal Thickness	is (Subject to is hickness cketed vess	Thic pressure) Thic inches tls, or channel	Charp F 34 tem :kness in. A :kness in. A :kness in. A :kness in. A :kness in. A	y Idpact p. of Attachment Attachment Metachment Type Aget 3.	(\$q. or U)
be sh ibest i1-14 eil:	10 to be co nects: State Floa Material inct. to be Material	ompleted for a constry. Materi ting. Materi t completed ( T.S	tube section isl (Kind & S isl O.D for inner ch	as Spee. Ne.) D D ambers of ja- Nominal Thickness	is (Subject to is hickness cketed vess	Thic pressure) Thic inches tls, or channel	knessin. A knessin. A . Number Is of heat excha	Attachment Attachment Attachment Type Aget3.	(Velded, Beited) 
ibe Sh ibest i1-14 eil: !	Floa Floa Material incl. to b	ting, Materi ting, Materi t completed (	isl (Kind & : isl O.D or inner ch:	Spee. Ne.) D D Imbers of jac Nominal Thickness	is hickness cketed vess	Thic inches or gage	kaessia. A . Number Is of hest excha	ArrachmentType	(Str. or U)
1-14 eil: !	incl. 10 b	completed (	of inner ch	nominal Nominal	cketed vess	els, or channel	ls of heat excha	agers.	(Str. or U)
eil: !	Macerial	T.s		Nominal Thickness	Com	sion			fe, it
	Macerial (Kind	T.S	·	Thickness _	Corri in. Allo	sion vancein.	Dia fr	in. Length_	ft it
	Long		-		R.T		Efficiency		
ads	(a) Materia	ł		T.S			!	T.S	
	Location			e Zadiya		Apez Angle	Zedlus	Flat Diameter	Side to Press. (Conv. se Conc.
Char	anel					-			· · · · · · · · · · · · · · · · · · ·
remov	able, boit:	i used (a)		(b)	(c)	Ud	her fascening		
				•					
sign	pressure							p. of	*
elow.	to be com	pieted for ail	vessels wh	ere applicat	de.				
lety \	aive Oucid	ts: Number_		Size	L	ocation			
		Number			· ·	- Mial Thi			Hew Attached
					-				
spects	ion Maaho	ies, No		Size	L.x:				
ening									
	Threa	led, No		Size	Loca	(IOR			
	n skin	Yes of No.	.ugs	Legs	(Number)	_ Other	Attache	d	re & Hewi
	i Chau remov sign elow fery 1 zzles urpeou ulet, spects ening	Top, bottom, et Channel removable, boits sign pressure <sup>2</sup> elow to be comp fety Valve Outle szless urpoor (Inlet, utlet, Drain) 	Top, bottom, ends Channel removable, boits used (a) sign pressure <sup>3</sup> elow to be completed for all fety Valve Outlets: Number szles: urgeee (Inlet, ulet, Drain) Number ipection Manholes, No enings: Handholes, No	Top, bottom, ends	Top, bortom, ends	Top, bortom, ends	Top, bortom, ends	1 Top, bottom, ends	1 Top, bortom, ends

# FORM N-2 (back)

				REPORT NO. P0059-009
	·		1.	Sheet 2 of 2 144
	FORM N-2 NPT CERTIFICATE HOLD	FRS' DATA REPORT F	OR NUCLEAR PART	AND APPURTENANCES
				I. Div. ( 1 B13-037
				< 5HT 6 08 46)
Service and				
L. (a) M	saufactured by General Electric	: Company, Castle (Name and address	Hayne Rd., W1 of NPT Certificate Holder)	Imington, N.C.
(b) M	anufactured for General Electric	: Company, San Jo	se, California	(NEBG)
-	01	ame and address of N Certificate	e Holder for completed auc	lear component)
2, Identi	fication-Certificate Holder's Serial No. of P	art	Nat'l Bd.	No
(a) (	Constructed According to Drawing No	768E534G001 Draw	ring Prepared by	D. L. Peterson
(h) F	Description of Part Inspected(	Control Rod Drive	. Model #7RDB1	44DG <b>001</b>
			•	N207
(c) A	Applicable ASME Code: Section III, Edition	1974., Addenda da	nte	No. 1361-2 Class 1
				· · · · · · · · · · · · · · · · · · ·
				_
	Cap 166B9274P1		0	
	(167A2343) SA182 - F316		Code we	
	3/8 thick x 1 1/16 OD		P50YP102	
2.	Indicator Pipe 166E9313P1		<u>(2)</u>	
	SA312-TP316		•	
	3/4 sch 40-seamless pipe 0.113 wall thickness	,		
	1.065 max. dia.	•	Baaabaa wax	
	• •		Reactor ves thimble	
3.	Plug 159A1176P1		in the second seco	
	SA182-F304 1/4 thick x 0.812 0D	•		
	174 CHICK X 0.812 00		3	
٨	Flange 919D610P1 (719E474)		Code weld	
	.SA182-F304		R50YP102-	
	3.37 thick x 9 5/8 0D	-	B	
	neck 1 1/16 thick x 5.0 0D 2.875 ID		<b>()</b> _	
•	2.0/3 10		-	
· 5.	Base 137C5311P1		•	
. •••	XM-19 ASME SA479	<b></b>		
•	3.0 OD x .884 ID	· •		
•	•• •• •• •• ••			V 3 K V
б.	Ring Flange 11485122P2 SA182-F304	•	· · · ·	
	1" thick x 5.0 0D x 1.75 I	0		Code weld P50YP102
			3 <b>•</b>	
7.	Cap Screw 117C4516P2	-	1999 -	
	SA193-B6	•••••	•	CONTROL ROD DRIVE DWG - 768E534
	6 ea. 1/2 dia. on 4 1/8 bo	IT CITCLE	•	
8.	Plug 175A7961P1	• •••• •	9. Nut 1	
ν.	SA182-F304		XM-19	SA479
	0.38 thick x 1.307 dia.	•	1.30 1	thick x 2.62 dia 00805
			•	

	REPORT NO. P0059-009
	Sheet 1 of 2
7	
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PAR As required by the Provision of the ASME Code Rules, Section II	T AND APPERTENANCES
As required by the Provision of the ASME Code Rules, Section I	11, Div. 1 (1013-037 46
	Circlesting
	111 1210
(a) Manufactured by General Electric Company, Castle Hayne Rd., With Chame and address of NFT Certificate Holder	ilmington, N.C.
-	-
(b) Manufactured for General Electric Company, San Jose, California	a (NEBG)
(Name and address of N Certificate Holder for completed aut	clear component)
Mentification-Certificate Holder's Serial No. of PartNat'l Bd.	No
Auguaricanou-cerunicate nonder a Serial No. of Park	. NO
(a) Constructed According to Drawing No 768E534G001 Drawing Prepared by	D. L. Peterson
(a) Constructed According to Drawing No Drawing Prepared by	
Control Rod Drive, Model #7RDB144DG	001
(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG	N207
(c) Applicable ASME Code: Section III, Edition, Addenda date Case	1361-2
(c) Applicable ASME Code: Section III, Edition, Addenda date Case	e NoClass
Remarks: Standard part for use with Reactor. Hydrostatically (	tested at 1820 psi.
(Brief description of service for which component was d	esigned)
* Total number of sheats - 2	
	·····
a de la construcción de la constru	
• • • • • • • • • • • • • • • • • • • •	
the Holder for appurtenances is responsible for furnishing a separate Design Specification and S cluded in the component Design Specification and Stress Report.)	
	Stondenme.
te	Stoudenme.
te	
te	
exe8/29_1981 Signed GE, NEPD-WAD By E (NPT Certificate Holder) extificate of Authorization Expires September 15, 1981 Certificate of Authori	ization No
ate	ization No
ertificate of Authorization Expires September 15, 1981 Certificate of Authori CERTIFICATION OF DESIGN FOR APPURTENANCE (when a GE NEED 1900 04 Coetlo House Pd Milled	applicable)
ertificate of Authorization Expires September 15, 1981 Certificate of Authori CERTIFICATION OF DESIGN FOR APPURTENANCE (when a Design information on file atGE, NEPD-WMD-QA, Castle Hayne Rd., Wilmin	applicable)
B/29 19 81 Signed GE, NEPD-WMD (NPT Certificate Molder) Errificate of Authorization Expires September 15, 1981 Certificate of Authori CERTIFICATION OF DESIGN FOR APPURTENANCE (when a Design information on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmin 22A5556, Rev. 2	applicable)
are       8/29       81       GE, NEPD-WMD       By       By </td <td>applicable)</td>	applicable)
are       8/29       81       Signed       GE, NEPD-WMD       By       By       Explored         (NPT Certificate of Authorization Expires         September 15, 1981       Certificate of Authorization Expires         CERTIFICATION OF DESIGN FOR APPURTENANCE (when a Design information on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmin 22A5556, Rev. 2         Stress analysis report on file at GE, NEPD, San Jose, Calif.         22A4912, Rev. 2	applicable) ngton, N.C.
are       8/29       81       Signed       GE, NEPD-WMD       By       By       Explored         (NPT Certificate of Authorization Expires         September 15, 1981       Certificate of Authorization Expires         CERTIFICATION OF DESIGN FOR APPURTENANCE (when a Design information on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmin 22A5556, Rev. 2         Stress analysis report on file at GE, NEPD, San Jose, Calif.         22A4912, Rev. 2	applicable) ngton, N.C.
8/29       19       81 Signed       GE, NEPD-WD       By       By       Explored         (NPT Certificate Molder)         CERTIFICATION OF DESIGN FOR APPURTENANCE (when a         Design information on file at	splicable) ngton, N.C. State <u>Calif</u> Reg. No. 18345
8/29       19       81 Signed       GE, NEPD-WAD       By       By       Explored for the second state of the second stat	splicable) ngton, N.C. State <u>Calif</u> Reg. No <u>18345</u>
8/29       19       81 Signed       GE, NEPD-WD       By       By       Explored         (NPT Certificate Molder)         CERTIFICATION OF DESIGN FOR APPURTENANCE (when a         Design information on file at	applicable) ngton, N.C.
8/29       19       81 Signed       GE, NEPD-WAD       By       F         (NPT Certificate Molder)         Inter Certificate of Authorization Expires         September 15, 1981       Certificate of Authorization Expires         CERTIFICATION OF DESIGN FOR APPURTENANCE (where a colspan information on file atGE, NEPD-WMD-QA, Castle Hayne Rd., Wilmin 22A5556, Rev. 2         Stress analysis report on file atGE, NEPD, San Jose, Calif.         22A4912, Rev. 2         Design specifications certified by	splicable) ngton, N.C. State <u>Calif</u> Reg. No. <u>18345</u>
8/29       19       81 Signed       GE, NEPD-WAD       By       By       Explored for the second state of the second stat	splicable) ngton, N.C. State <u>Calif</u> Reg. No. <u>18345</u>
8/29       19       81 Signed       GE, NEPD-WD       By       Freificate of Authorization Expires       September 15, 1981       Certificate of Authorization Expires         CERTIFICATION OF DESIGN FOR APPURTENANCE (when a Design information on file atGE, NEPD-WMD-QA, Castle Hayne Rd., Wilmin 22A5556, Rev. 2         Stress analysis report on file atGE, NEPD, San Jose, Calif.         22A4912, Rev. 2         Design specifications certified by	splicable) ngton, N.C. State <u>Calif</u> Reg. No. <u>18345</u> State <u>Calif</u> Reg. No. <u>18345</u>
8/29       19       81 Signed       GE, NEPD-WD       By       F         (NPT Certificate Holder)         entificate of Authorization Expires       September 15, 1981       Certificate of Authorization         CERTIFICATION OF DESIGN FOR APPURTENANCE (where of CERTIFICATE OF SHOP INSPECTION         Design information on file as         GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmin         2245556, Rev. 2         Stress analysis report on file as         Design specifications certified by         B. N. Sridhar         Prof. Eng.:         CERTIFICATE OF SHOP INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler	and Pressure Vessel inspectors
are	and Pressure Vessel inspectors
are	and Pressure Vessel Inspectors
are <u>8/29</u> <u>19</u> <u>81</u> Signed <u>GE</u> , NEPD-WMD <u>By</u> <u>F</u> (NPT Certificate of Authorization Expires <u>September 15</u> , <u>1981</u> Certificate of Authori CERTIFICATION OF DESIGN FOR APPURTENANCE (when a Design information on file at <u>GE</u> , <u>NEPD-WMD-QA</u> , <u>Castle Hayne Rd.</u> , <u>Wilmin</u> 22A5556, Rev. 2 Stress analysis report on file at <u>GE</u> , <u>NEPD</u> , <u>San Jose</u> , <u>Calif</u> . 22A4912, Rev. 2 Design specifications certified by <u>B. N. Sridhar</u> <u>Prof. Eng.</u> Stress analysis report certified by <u>B. N. Sridhar</u> <u>Prof. Eng.</u> <u>CERTIFICATE OF SHOP INSPECTION</u> 1, the undersigned, holding a valid commission issued by the National Board of Boiler and/or the State of Province of <u>North Carolina</u> and employed by <u>Department of</u> of <u>State of North Carolina</u> have inspected the part of a prof.	and Pressure Vessel Inspectors of Labor essure vessel described in this
are       8/29       19       81 signed       GE, NEPD-WMD       By       <	and Pressure Vessel Inspectors of Labor essure vessel described in this ue that to the best of my knowledge de Section III.
are       8/29       81       GE, NEPD-WMD       By       Example         errificate of Authorization Expires       September 15, 1981       Certificate of Authori         CERTIFICATION OF DESIGN FOR APPURTENANCE (when a         Design information on file stGE, NEPD-WMD-QA, Castle Hayne Rd., Wilmit         22A5556, Rev. 2         Stress analysis report on file stGE, NEPD, San Jose, Calif.         22A4912, Rev. 2         Design specifications certified byB. N. Sridhar         Prof. Eng.:         CERTIFICATE OF SHOP INSPECTION         1, the undersigned, holding a valid commission issued by the National Board of Boiler         add of North Carolina         and employed by Department c         of	and Pressure Vessel Inspectors of Labor essure vessel described in this use that to the best of my knowledge de Section III. essures and result of the section II. essure vessel described in this
are1919181	and Pressure Vessel Inspectors of Labor essure vessel described in this the that to the best of my knowledge de Section III. essure sor his employer
ate	and Pressure Vessel Inspectors of Labor essure vessel described in this the that to the best of my knowledge de Section III. essure sor his employer
Ate	and Pressure Vessel Inspectors of Labor essure vessel described in this the that to the best of my knowledge de Section III. essure sor his employer
are <u>8/29</u> 19 <u>81</u> Signed <u>GE</u> , NEPD-VMD <u>NOPT Certificate of Authorization Expires <u>September 15, 1981</u> Certificate of Authorization <u>CERTIFICATION OF DESIGN FOR APPURTENANCE (when a Certificate sequence of the Section Section Sectified by <u>B. N. Sridhar</u> Prof. Eng.: <u>Stress analysis report certified by B. N. Sridhar</u> Prof. Eng.: <u>Stress analysis report certified by B. N. Sridhar</u> Prof. Eng.: <u>CERTIFICATE OF SHOP INSPECTION</u> 1, the undersigned, holding a valid commission issued by the National Board of Boiler and/or the State of North Carolina and employed by <u>Department of State of North Carolina</u> have inspected the part of a pre Partial Data Report on <u>8/29</u> is <u>81</u> and state and belief, the NPT Certificate Holder has constructed this part is accordance with the ASME Com By signing this certificate, meither the Inspection. <u>8/29</u> is <u>81</u></u></u>	and Pressure Vessel Inspectors of Labor essure vessel described in this use that to the best of my knowledge de Section III. , expressed or implied, concern- inspector nor his employer y kind arising from or connected
are <u>8/29</u> 19 <u>81</u> Signed <u>GE</u> , NEPD-VMD <u>NOPT Certificate of Authorization Expires <u>September 15, 1981</u> Certificate of Authorization <u>CERTIFICATION OF DESIGN FOR APPURTENANCE (when a Certificate sequence of the Section Section Sectified by <u>B. N. Sridhar</u> Prof. Eng.: <u>Stress analysis report certified by B. N. Sridhar</u> Prof. Eng.: <u>Stress analysis report certified by B. N. Sridhar</u> Prof. Eng.: <u>CERTIFICATE OF SHOP INSPECTION</u> 1, the undersigned, holding a valid commission issued by the National Board of Boiler and/or the State of North Carolina and employed by <u>Department of State of North Carolina</u> have inspected the part of a pre Partial Data Report on <u>8/29</u> is <u>81</u> and state and belief, the NPT Certificate Holder has constructed this part is accordance with the ASME Com By signing this certificate, meither the Inspection. <u>8/29</u> is <u>81</u></u></u>	and Pressure Vessel Inspectors of Labor essure vessel described in this use that to the best of my knowledge de Section III. , expressed or implied, concern- inspector nor his employer y kind arising from or connected
are <u>8/29</u> <u>19</u> <u>81</u> Signed <u>GE</u> , NEFD-WED <u>New Certificate of Authorization Expires <u>September 15</u>, <u>1981</u> Certificate of Authorization Expires <u>September 15</u>, <u>1981</u> Certificate of Authorization certificate of <u>Authorization Expires</u> <u>September 15</u>, <u>1981</u> Certificate of <u>Authorization Expires</u> <u>September 15</u>, <u>1981</u> Certificate of <u>Authorization CERTIFICATION OF DESIGN FOR APPURTENANCE</u> (where a Design information on file as <u>GE</u>, <u>NEPD-WMD-QA</u>, <u>Castle Hayne Rd</u>., <u>Wilmin</u> 22A5556, <u>Rev. 2</u> Stress analysis report on file as <u>GE</u>, <u>NEPD</u>, <u>San Jose</u>, <u>Calif</u>. 22A4912, <u>Rev. 2</u> Design specifications certified by <u>B. N. Sridhar</u> Prof. Eng.: Stress analysis report certified by <u>B. N. Sridhar</u> Prof. Eng.: CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boilter and/or the State of Province of <u>North Carolina</u> and employed by <u>Department of</u> of <u>State of North Carolina</u> have inspected the part of a pre and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Coo By signing this certificate, seither the Laspector are his employer makes any warranty is the part described in this Partial Data Report. Furthermore, neither the shall be liable in any manner for any personal injury or property damage or a loss of an with this inspection. Date <u>8/29</u> 19 <u>81</u> N.C.</u>	and Pressure Vessel Inspectors of Labor essure vessel described in this the that to the best of my knowledge de Section III. essure sor his employer
are1919	and Pressure Vessel Inspectors of Labor essure vessel described in this use that to the best of my knowledge de Section III. , expressed or implied, concern- inspector nor his employer y kind arising from or connected

.

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

•

.

.

<b>,</b>	-	7	-	۵,	· ·•	1

FORM	N-2	(back)

	ns 48 l	ncl. to be co	apreted for an						at exclusion get	rs.
4.	Shell:	Material (Xind à	T.S Spec. No.) (Min	Ť	om <b>inal</b> hickness Specified)	Corro in. Allow	sion wance in.	Dia ft	in. Length_	ft in
5.	Seams:	Long	н	.T. <sup>1</sup>		_ R.T	<u> </u>	Efficiency		. %
		Girth	Н	.T.		_ R.T	<b>.</b>	No. of Courses		
6.	Hends:	(a) Material	<u></u>		_ T.S		(b) Materi	el	T.S	
		Location , bottom, ends)	• Thickn###		Knuckie Radius	Elliptical Ratio		Hemispherical Redius	Flat Dismoter	Side to Press. (Conv. or Conc.
			• <del>• • • • • • • • • • • • • • • • • • </del>							
										•
	IF FEIRON	radie, boita a	ised(Mate	rial, Spec. N	fo., T.S., Siz	e, Number)	Other fast	ching	scribe or attac	ch sketch)
7.•	Jacket (	Closure:								
	•	(Desc	ribe as ogee and	lweid, bar, e	ite. If bar give	dimensions,	If bolted, descr		/eight	
		-	1250		·		575	<b>Ch</b>	Impact	ft-[
8.	Design	pressure"	1250		psi at		575		p. of	°1
ten	s 9 and	10 to be com	pleted for tub	e sections		<u>_</u>				
<u> </u>	Tube Sh	eets: Station	ary. Material		Di		Thic	kness in. A	ttachment_	·····
						•				
	ı	Floatin	s. Material		Dia	•	Thic	knessin. A	ttachment	· · · · · · · · · · · · · · · · · · ·
lợ.	Tubes:	Material		_ O.D	in. Thi	ckness		. Number	Туре	·
•								ls of heat exchange		(Str. or U)
-		e		· N						
		Material (Kind & S	pec. Ne.) (Min.	of Range Sp	ominal hickness pecified)	Corra in, Allon	vancein.		in. Length_	ft in
	Seams;	Material (Kind & S Long	T.S pec. Ne.) (Min. H	of Range Sp	ominal hickness pecified)	Corro in. Allov _ R.T	vancein.	Dia ft	in. Length_	ft in 7
12,	Seams;	Material (Kind & 3 Long Girth	T.S Ipec. No.) (Min. H	. of Range S; .T. <sup>1</sup>	ominal hickness pecified)	Corra ia. Allon _ R.T	vancein.	Diaft Efficiency No. of Courses	in. Length_	ft in _%
12,	Seams;	Material (Kind & 3 Long Girth	T.S Ipec. No.) (Min. H	.T. <sup>1</sup>	ominal hickness pecified) _ T.S	Corro in, Allon _ R.T	vancein. (b) Materia	Dia ft, Efficiency No. of Courses	in. Length	ft。 in %
12,	Seama: Heada (	Material (Kind b 5 Long Girth (a) Material _ Location	T.S	Ti of Range 5; .T. <sup>1</sup> .T. <sup>1</sup> Crown Radius	ominal hickness pecified) _ T.S Knuckie Redius	Corre in, Allow R.T _R.T Elliptical Ratio	vancein. (b) Material Conical Apex Angle	Dia ft Efficiency No. of Courses	in. Length_	ft in 7 
12,	Seama: Heada (	Material (Kind b 3 Long Girth (a) Material _ Location , bottom, end	T.S lpec. No.) (Min. H	Ti of Range 5; .T. <sup>1</sup> .T. <sup>1</sup> Crown Radius	ominal hickness pecified) _ T.S Knuckie Redius	Corre in, Allow R.T _R.T Elliptical Ratio	vancein. (b) Material Conical Apex Angle	Dia ft Efficiency No. of Courses	in. Length T.S Fint	ft。 in %
12,	Seams; Heads ( (a) Top, (b) Chao	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel	T.S	Ti of Range 3; .T. <sup>1</sup> .T. <sup>1</sup> .T. <sup>1</sup> Crown Radius	ominal hickness pecified) _ T.S Knuckle Redius	Corre	vancein. (b) Material Conical Apez Angle	Dia ft Efficiency No. of Courses Hemsepherical Radius  her fastening	in. Length_ T.S Flat Dlameter	ftin 7 Side to Press. (Conv. or Conc.
12,	Seams; Heads ( (a) Top, (b) Chao	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel	T.S	Ti of Range 3; .T. <sup>1</sup> .T. <sup>1</sup> .T. <sup>1</sup> Crown Radius	ominal hickness pecified) _ T.S Knuckle Redius	Corre	vancein. (b) Material Conical Apez Angle	Dia ft Efficiency No. of Courses Hemsspherical Radius  her fastening	in. Length T.S Fint	ftin 7 
12,	Seams; Heads ( (a) Top, (b) Chac If remov	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel able, bolts u	Thickness Sed (a)	Ti of Range 3; .T. <sup>1</sup> oT. <sup>1</sup> Crown Radius	ominal hickness pecified) 	Corre	vancein. (b) Materia Conical Apez Angle Or	Dia, ft, Efficiency No. of Courses Hemsepherical Radius her fastening Drop W	in. Length_ T.S Flat Dismeter  (Describe or s 'eight	ftin % Side to Press. (Conv. or Conc.  Rtach sketch)
12,	Seams; Heads ( (a) Top, (b) Chac If remov	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel able, bolts u	Thickness Sed (a)	Ti of Range 3; .T. <sup>1</sup> oT. <sup>1</sup> Crown Radius	ominal hickness pecified) 	Corre	vancein. (b) Material Conical Apez Angle	Dia, ft, Efficiency No. of Courses Hemsepherical Radius her fastening Drop W	in. Length_ T.S Flat Dlamster  (Describe or a 'cight	ftin % Side to Press. (Conv. or Conc.  Rtach sketch)
12, 13.	Seams: Heads ( (a) Top, (b) Chao If semov Design (	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel rable, bolts u pressure <sup>2</sup>	Thickness Sed (a)	Ti of Rarge 5; .T. <sup>1</sup> .T. <sup>1</sup> Crown Radius	ominal hickness pecified) Knuckle Redius 	Corre	vancein. (b) Materia Conical Apez Angle Or	Dia, ft, Efficiency No. of Courses Hemsepherical Radius her fastening Drop W	in. Length_ T.S Flat Dismeter  (Describe or s 'eight	ftin % Side to Press. (Conv. or Conc.  ittach sketch)
12, 13.	Seama; Heada ( (a) Top, (b) Chao If remov Design ( a below	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel rable, bolts u pressure <sup>2</sup> to be comple	T.S pec. No.) (Min. H H Thicknese S sed (a) ted for all ves	Ti of Range 3; .T. <sup>1</sup> oT. <sup>1</sup> Crown Radius (t	ominal hickness pecified)  Knuckle Redius  >) psi at e applicabl	Corre	vancein. (b) Material Conical Apex Angle Or	Dia, ft, Efficiency No. of Courses Hemsepherical Radius her fastening Drop W	in. Length_ T.S Flat Dismeter  [Describe or s eight Impact	ftin % Side to Press. (Conv. or Conc.  ittach sketch)
12. 13.	Seama; Heada ( (a) Top, (b) Chao If remov Design ( a below	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end nucl rable, bolts u pressure <sup>3</sup> to be comple	T.S pec. No.) (Min. H H Thicknese S sed (a) ted for all ves	Ti of Range 3; .T. <sup>1</sup> oT. <sup>1</sup> Crown Radius (t	ominal hickness pecified)  Knuckle Redius  >) psi at e applicabl	Corre	vancein. (b) Material Conical Apex Angle Or	Dia, ft, Efficiency No. of Courses Hemsepherical Radius her fastening Drop W  Charpy at temp	in. Length_ T.S Flat Dismeter  [Describe or s eight Impact	ftin % Side to Press. (Conv. or Conc.  Rtach sketch)
12, 13. 14.	Seams; Heads ( (a) Top, (b) Chac If remov Design ( s below Safety V	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel rable, bolts u pressure <sup>3</sup> to be comple Valve Outlets a (Iniet,	T.S pec. No.) (Min. H H Thicknese s sed (a) ted for all ves : Number	Ti of Range 3; .T. <sup>1</sup> oT. <sup>1</sup> Crown Radius (t	ominal hickness pecified) 	Corre	vancein. (b) Material Conical Apex Angle Oc	Dia, ft, Efficiency No. of Courses Hemsepherical Radius  her fastening Charpy at iemg  Reir	in. Length_ T.S Flat Dismeter  [Describe or s eight Impact	ftin % Side to Press. (Conv. or Conc.  ittach sketch)
12. 13. 14.	Seams; Heads ( (a) Top, (b) Chac If remov Design ( s below Safety V Nozzles Purpose	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel rable, bolts u pressure <sup>3</sup> to be comple Valve Outlets a (Iniet,	T.S pec. No.) (Min. H H Thicknese s sed (a) ted for all ves : Number	Ti of Range 3; .T. <sup>1</sup> .T. <sup>3</sup> Crown Radius ()	ominal hickness pecified) 	Corre	vancein. (b) Material Conical Apex Angle Oc	Dia, ft, Efficiency No. of Courses Hemsepherical Radius her fastening Drop W Charpy F at temp  Reir ckness M	in. Length_	ftin % Side to Press. (Conv. or Cone. 
12, 13. 14. 15.	Seams: Heads ( (a) Top, (b) Chac If remov Design ( a below Safety V Nozzles Purpose Outlet, (	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel rable, bolts u pressure <sup>3</sup> to be comple falve Outlets a (Iniet, Drain)	T.S	Ti of Range 5; .T. <sup>1</sup> .T. <sup>3</sup> Crown Radius () sels when bisels when	ominal hickness pecified) 	Correcin, Allow	vancein. (b) Material Conical Apex Angle Oc Ocation print Tht	Dia, ft, Efficiency No. of Courses Hemsepherical Radius  her fastening Drop W Charpy  GF at icmg  Reir chness M	in. Length_	ftin % Side to Press. (Conv. or Cone. 
12, 13. 14. 15.	Seams: Heads ( (a) Top, (b) Chac If remov Design ( a below Safety V Nozzles Purpose Outlet, ( Inspecti	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel rable, bolts u pressure <sup>3</sup> to be comple falve Outlets a (Iniet, Drain)  on Manhole:	T.S	Dia. or Size	ominal hickness pecified) 	Correc in, Allov _ R.T _ R.T Elliptical Ratio (c) e. Loca	vancein. (b) Material Conical Apex Angle Oc ocation print Tht  tion	Dia, ft, Efficiency No. of Courses Hemsepherical Radius  her fastening Drop W Charpy F at temp  cknees M	in. Length_	ftin % Side to Press. (Conv. or Conc.  ittach sketch) ftelb ftelb ftelb ftelb
12, 13, 14, 15, 16,	Seams: Heads ( (a) Top, (b) Chac If remov Design ( a below Safety V Nozzles Purpose Outlet, ( Inspecti	Material (Xind b 3 Long Girth (a) Material _ Location , bottom, end anel rable, bolts u pressure <sup>2</sup> to be comple Valve Outlets (Iniet, Drain)  on Manhole: s: Handhole	T.S	Dia, or Size	ominal hickness pecified) 	Correcin, Allow	vancein. (b) Material Conical Apex Angle Or	Dia, ft, Efficiency No. of Courses Hemsepherical Radius  her fastening Drop W Charpy GF at icmg  Reir chness M	in. Length_	ftin % Side to Press. (Conv. or Conc.  ittach sketch) f(elb oF How Attached

				REPORT NO.	P0059-009
Ţ	· · · ·		<u>,</u>	Sheet 2 of	z .~
	FORM N-2 NPT CERTIFICATE HO	LDERS' DATA REPORT F	ଞ OR NUCLEAR PAR	T AND APPURTENA	NCES.
	As required by the	e Provision of the ASME C	ode Rules, Section		<b>7 7 1</b>
				(549.84	46) 17240
1. (a) Ma	anufactured by General Electr	ic Company, Castle	Hayne Rd., W	ilmington, N.C.	· · · · · · · · · · · · · · · · · · ·
<b>(b)</b> Mi	anufactured for General Electr	ic Company, San Jo	se, Californi	a (NEBG)	
		(Name and address of N Certifical A5656	1 A A A A A A A A A A A A A A A A A A A		
Z. Idenu	fication-Certificate Holder's Serial No. o	(Part	Nat'l Bd		
(a) C	Constructed According to Drawing No.,	768E534G001Drav	ving Prepared by	D. L. Peterso	
(b) D	Description of Part Inspected	Control Rod Drive	, Model #7RDB	144DG001	
		· · ·		N207	
(c) A	Applicable ASME Code: Section III, Edit	ion_1974., Addenda d	ste <u>N'/5</u> , Cas	se No. <u>1361-2</u> Clas	s <u>    1                                </u>
		• •			
		*			
•				<u>م</u>	
.1.	Cap 166B9274P1 (167A2343)				•
	ŠA182 - F316		Code vie		
	3/8 thick x 1 1/16 0D		P.50YP10		
2	Indicator Pipe 166B9313P	1		~ !	
۴.	SA312-TP316		•		
	3/4 sch 40-seamless pipe 0.113 wall thickness		•		
	1.065 max. dia.	• •	· .		1 .
	• •		Reactor ve		
3.	Plug 159A1176P1		······································	¯ <b>∖i        </b> .	
•	SA182-F304 1/4 thick x 0.812 OD	. •	•	г- <sup>-</sup> ч   !	
		•	3		III Harry
. 4.	Flange 919D610P1 (719E474		Code weld		
	SA182-F304 3.37 thick x 9 5/8 0D	•.	REOVP102		
	neck 1 1/16 thick x 5.0 (	0D	e A		BN
•	2.875 ID		<b>A</b>		
5	Base 13705311P1		•		
•	XM-19 ASME SA479	••••••••	•	<b>《</b> 77	177
	3.0 OD x .884 ID	-		O A	IK1
2	Ring Flange 114B5122P2			7 11	サイ
υ.	SA182-F304			· Code	weld
	1" thick x 5.0 OD x 1.75	ID		PSOYF	
	fan fang 1170151000		•	•	· .
1.	Cap Screw 117C4516P2 SA193-B6			CONTROL RO	D DRIVE
	6 ea. 1/2 dia. on 4 1/8 1	bolt circle		DHG - 768	SE534
-	••••••••••••••••••••••••••••••••••••••		Q Min 1	137C5934P1	000
8.	Plug 175A7961P1 SA182-F304		XH-19	9 SA479	00339
	0.38 thick x 1.307 dia.	•	1.30	thick x 2.62 d	ia.

1

.

1 - 1 - 1

the second s	
J. 2 - 4	Sheat 1 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT	-
As required by the Provision of the ASME	Code Rules, Section III, Div. 1 SB13-037 Surt. 9 46 46
	ress of NPT Certificate Holder)
(b) Manufactured for General Electric Company, San	Jose, California (NEBG)
Identification-Certificate Holder's Serial No. of Part A3990	Icate Holder for completed auclear component)
(a) Constructed According to Drawing No	D. L. Peterson
(b) Description of Part Inspected Control Rod Drive, M	lodel #7RDB144DG001
(c) Applicable ASME Code: Section III, Edition, Addende	
Remarker Standard part for use with Reactor. H	
(Brief description of service fo	
* Total number of sheats - 2	
	· · · · · · · · · · · · · · · · · · ·
We certify that the statements made in this report are correct and th as to the rules of construction of the ASME Code Section III.	is vessel part or appurtenance as defined in the Code con-
e applicable Design Specification and Stress Report are not the response	sibility of the NPT Certificate Holder for parts. An NPT Certif-
e Holder for appurtenances is responsible for furnishing a separate De- luded in the component Design Specification and Stress Report.)	sign Specification and Stress Report is the appartemence is not
	( Ett- land
6/12 19_81 Signed GE, NEPD-Will UNPT Certificate Holders	Br. J. Carvulation
tilicate of Authorization Expires June 16, 1981	7 J
	Certificate of Asthorization No. NPT N-1151
CERTIFICATION OF DESIGN FOR APPU	Certificate of Authorization No.
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H	Certificate of Authorization No.
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2	Certificate of Authorization No.
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San Jose, O 22A4912, Rev. 2	Certificate of Authorization No
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San Jose, C 22A4912, Rev. 2 Design specifications certified byB. N. Sridhar	Certificate of Abthorization No
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San Jose, C 22A4912, Rev. 2 Design specifications certified byB. N. Sridhar	Certificate of Abthorization No JRTENANCE (when applicable) Hayne Rd., Wilmington, N.C Calif Prof. Eng. State Calif_ Reg. No.18345 Prof. Eng. State Calif_ Reg. No.18345
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Scress analysis report on file atGE, NEPD, San Jose, O 22A4912, Rav. 2 Design specifications certified byB. N. Sridhar Scress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOP L, the undersigned, holding a valid commission issued by the Na	Certificate of Abthorization No JRTENANCE (when applicable) Hayne Rd., Wilmington, N.C Calif Prof. Eng. State Calif Reg. No.18345 Prof. Eng. State Calif Reg. No.18345
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San Jose, O 22A4912, Rev. 2 Design specifications certified byB. N. Sridhar Stress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOP I, the undersigned, holding a valid commission issued by the Na and/or the State of Province of North Carolina and employ of State of North Carolina have in port	Certificate of Abthorization No JRTENANCE (when applicable) layne Rd., Wilmington, N.C. Calif.  Prof. Eng. Scate <u>Calif</u> Reg. No. <u>18345</u>  Prof. Eng. Scate <u>Calif</u> Reg. No. <u>18345</u>  Prof. Eng. Scate <u>Calif</u> Reg. No. <u>18345</u> PINSPECTION acional Board of Boiler and Pressure Vessel Inspectors red by <u>Department of Labor</u> sected the pag. of a pressure vessel described in this
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San Jose, C 22A4912, Rev. 2 Design specifications certified byB. N. Sridhar Stress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOP I, the undersigned, holding a valid commission issued by the Na and/or the State of Province of <u>North Carolina</u> and employ ofState of North Carolina have inspec Partial Data Report on6/12	Certificate of Authorization No JRTENANCE (when applicable) Hayne Rd., Wilmington, N.C Calif Prof. Eng. Scate Calif Reg. No.18345 Prof. Eng. Scate Calif Reg. No.18345 Prof. Eng. Scate Calif Reg. No.18345  Prof. Eng. Scate Calif Reg. No.18345  PINSPECTION miconal Board of Boiler and Pressure Vessei Inspectors yed by Department_ of Labor weted the part of a pressure vessel described in this 19 St. and state that to the best of my knowledge
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San Jose, C 22A4912, Rav. 2 Design specifications certified byB. N. Sridhar Stress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOF I, the undersigned, holding a valid commission issued by the Na und/or the State of Province of <u>North Carolina</u> and employ State of North Carolina have inspector By signing this certificate Holder has constructed this part in accord By signing this certificate Holder has constructed this part in accord By signing this certificate for any personal layury or property	Certificate of Abthorization No IRTENANCE (when applicable) layne Rd., Wilmington, N.C Calif Prof. Eng. Scate CalifReg. No.18345 Prof. Eng. Scate CalifReg. N
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San JOSE, O 22A4912, Rav. 2 Design specifications certified byB. N. Sridhar Stress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOF I, the undersigned, holding a valid commission issued by the Na and/or the State or Province of <u>North Carolina</u> and employ ofState of North Carolina have inspect and belief, the NPT Certificate Holder has constructed this part in accord By signing this certificate, acider the Inspector nor his employ ing the part described in this Partial Data Report. Furth shall be liable in any mannet for any personal injury or property with this inspection.	Certificate of Abthorization No IRTENANCE (when applicable) layne Rd., Wilmington, N.C Calif Prof. Eng. Scate CalifReg. No.18345 Prof. Eng. Scate CalifReg. No.18345 Reg. No.18345 Prof. Eng. Scate CalifReg. No.18345 
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San Jose, O 22A4912, Rev. 2 Design specifications certified byB. N. Sridhar Stress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOF I, the undersigned, holding a valid commission issued by the Na and/or the State of Province of North Carolina and employ of State of North Carolina have inspect Partial Data Report on 6/12 and bellef, the NPT Certificate Holder has constructed this part in accord By signing this certificate, acider the Inspector nor his employ ins the part described in this Partial Data Report. Furth chall be liable in any manner for any personal injury or property with this inspection. 6/12 81	Certificate of Abthorization No
CERTIFICATION OF DESIGN FOR APPU Design information on file atGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file atGE, NEPD, San JOSE, O 22A4912, Rev. 2 Design specifications certified byB. N. Sridhar Stress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOF I, the undersigned, holding a valid commission issued by the Na and/or the State of Province of North Carolinaand employ ofState of North Carolina Partial Data Report on and belief, the NPT Certificate Holder has constructed this part in accord By signing this certificate, acider the Inspector nor his employ ing the part described in this Partial Data Report. Furth- shall be liable in any manner for any personal injury or property- with this inspection. Date	Certificate of Abthorization No
CERTIFICATION OF DESIGN FOR APPU Design information on file asGE, NEPD-WMD-OA, Castle H 22A5556, Rev. 2 Stress analysis report on file asGE, NEPD, San Jose, O 22A4912, Rev. 2 Design specifications certified byB. N. Sridhar Stress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOP I, the undersigned, holding a valid commission issued by the Na and/or the State of Province of <u>North Carolina</u> and employ ofGI =GI =	Certificate of Abthorization No

REPORT NO. P0059-009

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

- •

· ·

1 y and and

.

---

:

5. Seams 6. Heads (1) (a) (b) (f rem 7. Jacker 8. Design ems 9 and 9. Tubes 9. Tubes 9. Tubes 9. Tubes 9. Tubes 9. Seams 9. Seams 9. Heads (a) To (b) Ch If rem 1. Design ems belov	(Kind a R: Long Girth s: (a) Material Location op, bottom, ende) worable, bolts.u t Closurer t Closurer d 10 to be comp Sheets: Station Floatis s: Material (Xind b 5 st Long	Thickness Thickness Thickness Thickness Ised (Note Tibe sa oges and 1250 pleted for tube sary. Material completed for i T.S pres. No.) (Min H	The of Range Spee Spee Ne Speet Ne Spee		in. Allov R.T R.T R.T R.T Elliptical Ratio Number) dimensions, dimensions, dimensions, ckness ketted vessi ketted vessi ketted vessi Ratio Corre R.T		Efficiency_ No. of Cour il Hemispheri Radius  cning chasses kness is of hest ex Dia Dia ft.	Ses T.S cai. Plat Diamotor (Describe or atte op Weight arpy Impact temp. of . Attachment . Attachment tryp changers.	Side te Press (Coav. or Com ch sketch) (Teided, Boited) (Teided, Boited)
6. Heads (To (a) (b) (f remains) 7. Jacker 8. Design 6. Tubes 9 and 9. Tubes 9 and 9	Girth s: (a) Material Location op, bottom, ende) wowable, bolts.u to Closures (Dese ca pressure <sup>2</sup> d: 10 to be comp Sheets: Station Floatis s: Material (Xind h 5 st. Long	Thickness Thickness Ised (Material 1250 pleted for tub sary. Material completed for i 5pec. No.) (Min H	L.T. <sup>1</sup> Crown Radius Frial, Spee, Ne weid, bar, et sections (Kind & Spee O.D. O.D. inner chamb No This of Range Spee b.T. <sup>1</sup>	T.S Enuclie Radius 	R.T Elliptical Ratio . Number) dimensions, dimensions, (Subject to . Corrections, . Corrections, . Corrections, . Corrections, . R.T	(b) Materia Conical Apez Angle  Other fasc  , if bolted, descr 575  575  Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Th	No. of Cour Hemispheri Redius cning cning ibe or sketch) Dr Ch F zt kness in kness in kness is of heat es Di a ft.	Ses T.S cal Plat Diamotor (Describe or atta (Describe or atta op Weight arpy Impact temp. of . Attachment . Attachment changers.	Side te Press (Coav. or Com ch sketch) (Welded, Bolted) (Welded, Bolted)
(To (a) (b) If remains Jacked J. Design Tubes Tubes Tubes Tubes Ima 111 J. Shell: Seams J. Heads (a) To (b) Ch If remains Design Ima below	s: (a) Material Location op, bottom, ende) worable, bolts.u te Closures (Dese a pressure <sup>2</sup> d 10 to be com Sheets: Station Floatis is Material [4 incl. to be c Material (Xind h 5 st Long	Thickness Thickness Ised (Material 1250 pleted for tube mary. Material ag. Material completed for i T.S. pres. No.) (Minu-	Crown Radius Frial, Spee. No weid, bar, etc weid, bar, etc sections (Kind & Spee O.D	- T.S Enockie Radius  o.e. T.S., Size 	Elliptical Ratio Number) dimensions, (Subject to (Subject to ckness	(b) Materi Conical Apez Angle 	Hemispheri Redius Redius cning libe or sketch) Dr Ch F zt knessis knessis . Number is of hest es	T.S cal Plat Diamotor (Describe or atte (Describe or a	Side to Press (Coav. or Com ch sketch) (Welded, Bolted) (Welded, Bolted)
(To (a)	s: (a) Material Location op, bottom, ende) worable, bolts.u te Closures (Dese a pressure <sup>2</sup> d 10 to be com Sheets: Station Floatis is Material [4 incl. to be c Material (Xind h 5 st Long	Thickness Thickness Ised (Material 1250 pleted for tube mary. Material ag. Material completed for i T.S. pres. No.) (Minu-	Crown Radius Frial, Spee. No weid, bar, etc weid, bar, etc sections (Kind & Spee O.D	- T.S Enockie Radius  o.e. T.S., Size 	Elliptical Ratio Number) dimensions, (Subject to (Subject to ckness	(b) Materi Conical Apez Angle 	Hemispheri Redius Redius cning libe or sketch) Dr Ch F zt knessis knessis . Number is of hest es	T.S cal Plat Diamotor (Describe or atte (Describe or a	Side to Press (Coav. or Com ch sketch) (Welded, Bolted) (Welded, Bolted)
(To (a)	Location p, bottom, ends) wovable, bolts.u c Closurer (Desc a pressure <sup>2</sup> d 10 to be com Skeets: Station Floatis Material (Xind b 5 st. Long	Thickness ised	Crews. Radius Friel, Spee. Ne weid, bar, et weid, bar, et e sections. (Kind & Spee 	Knockie Rodius 	Kiliptical Ratio	Conical Apex Angle Other fast Other fast Other fast  , if balted, deacr 575  575  575  trace Thic _Thic Thic Thic Thic Thic Thic Thic Thic Thic Thic Thic Thic Thic Thic Thic _Thic Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic _Thic Thic _Thic Thic Thic Thic	Hemispheri Redius 	cal. Flat Diamotor (Describe or atte (Describe or atte arpy Impact	Side to Press (Coav. or Coar 
(b) If rem If rem Design rms 9 and Tubes rms 11-0 Shell: Seams Heads (a) To (b) Ch If rem Design rms belo	to vable, bolts u t Closures (Dese pressure <sup>3</sup> d 10 to be com Sheets: Station Floatis t: Material 14 incl. to be c Material (Xind b 5 t: Long	naed(Mate ribe as ogen and 1250 pleted for tube sary. Material ag. Material completed for i T.S pres. No.) (Min H	• Sections (Kind & Spee O.D. O.D. No This of Range Spee b.T. <sup>4</sup>	e. If bargive pair et pair et Dis No.) Dis in. This bers of jack wainal ickness	Number) dimensions, (Subject to (Subject to ckness	Other fast	ening lbe or sketch) Dr Ch Ch Ch Ch St Ch Ch Ch Ch Ch Ch Ch Ch Ch Ch	op Weight arpy Impact temp. of . Attachment . Attachment tryp changers.	(Weided, Bolted) (Str. or U)
If rem If rem Jacker Design man 9 and Tubes Tubes Tubes Seams Shell: Seams Heads (a) To (b) Ch If rem Design	to vable, bolts u t Closuret (Dese pa pressure <sup>3</sup> d 10 to be comp Sheets: Station Floatis st Material 14 incl. to be c Material (Xind h 5 st Long	IL250 pleted for tube sary. Material ag. Material completed for i T.S pres. No.) (Min H	<pre>vriat, Spee, Me dweid, bar, et /pre>	e. If bergive psi et psi et 	Number) dimensions, (Subject to ckness ckness ckness ckness ckness	Other fast	ibe or sketch) Dr Ch F st knessia knessia . Numberis of hest es Disft.	op Weight arpy Impact temp. of . Attachment . Attachment tryp changers.	(Weided, Bolted) (Str. or U)
<ol> <li>Jacket</li> <li>Design</li> <li>Tubes</li> <li>Tubes</li> <li>Tubes</li> <li>Tubes</li> <li>Shell:</li> <li>Seams</li> <li>Heads</li> <li>(a) To</li> <li>(b) Ch</li> <li>If remains</li> <li>Design</li> <li>ems below</li> </ol>	et Closures (Dese (Dese a pressure <sup>2</sup> dd 10 to be com Skeets: Station Floatis Et Material 14 incl. to be c (Xind b 5 Et Long	1250 pleted foe tub mary. Macerial ag. Material completed foe i 	e sections (Kind & Spee O.D inner chamb Th Th Th Th		dimensions, dimensions, (Subject to ckness ckness keted vessu Correia. Allow	balted, descr 575 	ibe or sketch) Dr Ch F st knessia knessia . Numberis of hest es Disft.	op Weight arpy Impact temp. of . Attachment . Attachment tryp changers.	(Weided, Bolted) (Str. or U)
. Design ma 9 and Tubes Tubes Tubes ma 11-1 . Shell: Seams Heads (a) To (b) Ch If remains Design ma belo	(Dese a pressure <sup>3</sup> d 10 to be com Sheets: Station Floatis Material 14 incl. to be c Material (Xind h 5 st Long	1250 pleted for tub mary. Material ag. Material completed for i T.S pres. No.} (Min H	• sections (Kind & Spec O.D inner chamb Th Th Th Th Th	psi et Dis e. No.) Dis in Dis in This bers of jack bers of jack wainal ickness ectiled)	(Subject to (Subject to ckness ckness ckness ckness ckness ckness ckness chness . Corre Allow R.T	575 Thic pressure) Thic inches or coge els, or channe paioa waacein,	Dr Ch Ch St Ch St St St St St St St St St St St St St	arpy Impact temp. of . Attachment . Attachment tryp changers in. Length	(Welded, Bolted) (Str. or U)
ema 9 and 7. Tubes 2. Tubes ema 11-1 1. Shell: 2. Seams 3. Heads (a) To (b) Ch If remains 1. Design ema below	a pressure <sup>3</sup> d 10 to be com Sheets: Station Floatis Material 14 incl. to be c Material (Xind b 5 st. Long	1250 pleted for tub mary. Material ag. Material completed for i T.S pres. No.} (Min H	• sections (Kind & Spec O.D inner chamb Th Th Th Th Th	psi et Dis e. No.) Dis in Dis in This bers of jack bers of jack wainal ickness ectiled)	(Subject to (Subject to ckness ckness ckness ckness ckness ckness ckness ckness ckness ckness	575 Thic pressure) Thic inches or coge els, or channe paioa waacein,	Dr Ch Ch St Ch St St St St St St St St St St St St St	arpy Impact temp. of . Attachment . Attachment tryp changers in. Length	(Welded, Bolted) (Str. or U)
ema 9 and 7. Tubes 2. Tubes ema 11-1 1. Shell: 2. Seams 3. Heads (a) To (b) Ch If remains 1. Design ema below	d 10 to be com Sheets: Station Floatis Material 14 incl. to be c Material (Kind h 5 st. Long	pleted for tub ary. Material ag. Material completed for 1 T.S. Spec. No.) (Min H	• sections (Kind & Spece 	Dia 	(Subject to 	Thic pressure) 	Ch PF = st knessin knessin knessin knessin bis of hest es Dis,ft.	arpy Impact temp. of . Attachment . Attachment tryp changers in. Length	(Welded, Bolted) (Str. or U)
<ul> <li>cmai 9 and</li> <li>cmai 9 and</li> <li>cmai 11-1</li> <licmai 11-1<="" li=""> <li>cmai 11-1</li> <licmai 11-1<="" li=""> <licmai< td=""><td>d 10 to be com Sheets: Station Floatis Material 14 incl. to be c Material (Kind h 5 st. Long</td><td>pleted for tub ary. Material ag. Material completed for 1 T.S. Spec. No.) (Min H</td><td>• sections (Kind &amp; Spec </td><td>Dia </td><td>(Subject to </td><td>Thic pressure) </td><td>knessis knessis Number is of heat es Diaft.</td><td>. Attachment</td><td>(Weided, Boited) </td></licmai<></licmai></licmai></ul>	d 10 to be com Sheets: Station Floatis Material 14 incl. to be c Material (Kind h 5 st. Long	pleted for tub ary. Material ag. Material completed for 1 T.S. Spec. No.) (Min H	• sections (Kind & Spec 	Dia 	(Subject to 	Thic pressure) 	knessis knessis Number is of heat es Diaft.	. Attachment	(Weided, Boited) 
<ul> <li>7. Tubes</li> <li>9. Tubes</li> <li>ems 11-1</li> <li>1. Shell:</li> <li>2. Seams</li> <li>3. Heads</li> <li>(a) To</li> <li>(b) Ch</li> <li>If remains</li> <li>(a) Design</li> <li>ems below</li> </ul>	Sheets: Station Floatis Material 14 incl. to be c Material (Kind & 3 mt Long	ag. Material completed for T.S. spec. No.) (Min	(Kind & Spee O.D inner chamb Thi Thi Thi Thi Thi Thi Thi	Dia 	keted vessi Corre ia. Allow		knessis Numberis of heat ex Diafc.	. AttachmentTyp Typ changers. in. Length.	e (5tr. of U)
<ul> <li>). Tubes</li> <li>). Tubes</li> <li>ems 11-1</li> <li>i. Shell:</li> <li>2. Seams</li> <li>3. Heads</li> <li>(a) To</li> <li>(b) Ch</li> <li>lf remains</li> <li>l. Design</li> <li>ems below</li> </ul>	Sheets: Station Floatis Material 14 incl. to be c Material (Kind & 3 mt Long	ag. Material completed for T.S. spec. No.) (Min	(Kind & Spee O.D inner chamb Thi Thi Thi Thi Thi Thi Thi	Dia 	keted vessi Corre ia. Allow		knessis Numberis of heat ex Diafc.	. AttachmentTyp Typ changers. in. Length.	e (5tr. of U)
). Tubes ems 11-1 1. Shell: 2. Seams 3. Heads (a) To (b) Ch If rems I. Design	Floatis Material 14 incl. to be c Material (Kind & 3 R. Long	ag. Material completed for i T.S. spec. No.) (Min H	O.D inner chamb No Thi of Range Spe h.T. <sup>1</sup>	Dia in. Thio bers of jack minal ickness ecifled)	keted vessi Corre ia. Allow		knessis Numberis of heat ex Diafc.	. AttachmentTyp Typ changers. in. Length.	e (5tr. of U)
). Tubes ems 11-1 1. Shell: 2. Seams 3. Heads (a) To (b) Ch If rems I. Design ems below	Floatis Material 14 incl. to be c Material (Kind & 3 R. Long	ag. Material completed for i T.S. spec. No.) (Min H	O.D inner chamb No Thi of Range Spe h.T. <sup>1</sup>	Dia in. Thio bers of jack minal ickness ecifled)	keted vessi Corre ia. Allow		knessis Numberis of heat ex Diafc.	. AttachmentTyp Typ changers. in. Length.	e (5tr. of U)
ems 11-1 1. Sheil: 2. Seams 3. Heads (a) To (b) Ch 1f remains 1. Design ems below	14 incl. to be c Material	Tes:Tes:Tes:Tes:Tes:	inner chamb No This of Range Spe La Ta <sup>4</sup>	bers of jack minal ickness ecifled)	Correction Correction Allow	els, or channe osioa wancein.	ls of heat ex Diaft.	changers. in. Length.	(Str. of U).
ems 11-1 1. Shell: 2. Seams 3. Heads (a) To (b) Ch If remains 1. Design ems below	14 incl. to be c Material	Tes:Tes:Tes:Tes:Tes:	inner chamb No This of Range Spe La Ta <sup>4</sup>	bers of jack minal ickness ecifled)	Correction Correction Allow	els, or channe osioa wancein.	ls of heat ex Diaft.	changers. in. Length.	(Str. of U).
<ol> <li>Sheil:</li> <li>Seams</li> <li>Heads         <ul> <li>(a) To</li> <li>(b) Ch</li> <li>(f remains the logo of the logo</li></ul></li></ol>	Material	T.S; pec. No.} (Min H	No This of Range Spe	minsl ickness ecifled)	· Corre ia. Allow _ R.T	vacein.	Dia ft	in. Lengch.	
I. Sheil: 2. Seams 3. Heads (a) To (b) Ch If remains I. Design	Material (Kind.h.5 R. Loag	T.S; Spec. No.} (Min H	This of Range Spe	ickness •ci(l•d)	ia. Allow _ R.T	waceia.	Di <b>s.</b> fc	in. Length.	
. Seams (a) To (b) Ch If remains . Design	(Kind.165 12. Long:	5pec. No.} (Min H	u of Range Spe	•ciflød)	_ R.T			_	fti
3. Heads (a) To (b) Ch If remains I. Design ems belo	_	_							
(a) To (b) Ch If rema I. Design ems belo			LT. 1				Efficiency_		_%
(a) To (b) Ch If remains I. Design ems belo									
(b) Ch If remains I. Design	r (a) Material _	· · · · · · · · · · · · · · · · · · ·		, T.S		(b) Materia	!	T.S	
(b) Ch If rema L. Design ems belo	Location	Thickness		Kauckie Redius		Conical Apez Angle	Hemispheri Radius	cal Flat. Dismeter	Side to Press (Coav. or Con
lf rem I. Design ems belo	p, bottom; end	s							·
l. Desig ems belo	annel	<u> </u>			- <u></u>	<del></del>			
l. Desig ems belo	ovable, bolta u	sed (s)	(b)	)	(c)		her fascenia	Describe or	attach sketch)
ems belo							Da	o Veight	
ems belo							°F at	arpy Impact	ft-
				psi at			#	(emp, of	0
Select	w to be comple	ted for all ver		e applicable	ę.	·····			
5. Selecu						· · · · · · · · · · · · · · · · · · ·	·····		
-	Valve Outlets	n Number		Size	L	ocation			
S. Nozzla			-		•			•	
	oae (Ialet, H, Drain)	Number	Dia, or Size	Тур	• Mat	erial Th	ckness	Reinforcement Material	How Attached
<u></u>									
 7 184090									
	crioa Manhole agai Handhol	s, No	Siz						
B. Suppo	ags: Handhol	s, No es, No	Siz		Loci	acion			
TLine of	ngs: Handhol Threade ers: Skirt	s, No es, No d, No Lug	Siz Siz Siz	ke	Loci	acion acion			

				REPORT NO. PO	0059-009
. <del>.</del>				Sheet 2 of 2	
	NPT CERTIFICATE HOLDERS'	DATA DEDODT D	D NUCLEAR RAPT		
FORM IN-2	As required by the Provision				<u>ن</u> ے .
	As required by the Provisio		oue miles, seculul III,	SHIT 10 M	467
والمتعادية والمتعادية والمتعادية		كماكما ستبقبونك الأخيذ فجويرا اخت			
. (a) Manufactured	by General Electric Con	many, Castle	Hayne Rd., Wils	mington, N.C.	
(b) Manufactured	for General Electric Con	d address of N Certificat	e Holder for completed nucleo	(NEBG)	
, identification-Cert	ificate Holder's Serial No. of Part 👝	A3990	Nar'l Bd. N	o	<u> </u>
			I	D. L. Peterson	
(a) Constructed	According to Drawing No7681	<u>'534G001</u> Draw	ving Prepared by		•
(b) Description of	of Part Inspected Contr	ol Rod Drive	, Model #7RDB144		
(c) Apolicable A	SME Code: Section III, Edition	74. Addenda di	Me W175 Case N	N207 10. 1361-2 Class	1
				-	
	• •				
1. Cap 166	R0274P1		<u>`</u>		
(167A23					
SA182 -	F316		Code weld		11
	ck x 1 1/16 0D		P50YP102		11
			•		
2 Indiant			. 2		
SA312-T	or Pipe 166E9313P1				
		•	•		
	40-seamless pipe	,			
	all thickness	- · · •	•		<b>{</b>
1.002/10	ax. dia.		Reactor vess	sel I I I I I	
	•		thimble-		11!
3. Plug 15	9A1176P1				411
. SA182-F		•	· · · · ·		
1/4 thi	ck x 0.812 0D		i i i i i i i i i i i i i i i i i i i		
••		•	3 <u> </u>		
1 Flages	016061001 (7105474)		Code unit a		$\nabla \nabla A$
.SA182-F	9190610P1 (719E474)		Code weld		N N N
		• •	R50YP102		V/V
	ick x 9 5/8 0D 1/16 thick x 5.0 0D		ورد		
2.875 I			<b>_</b>		$\mathbb{N}$
. 2.0/3 1					N
			E C		
5. Base 13			e e		
	ASME SA479		· · · ·		ĭ
3.0 00	x .884 ID	· •	U U		
				V/31-12-	$\overline{7}$
6. Ring Fl	ange 11485122P2	-	-		$\mathbf{X}$
SA182-F				LCode weld	
1" thic	k x 5.0 0D x 1.75 ID			P50YP102	9
7 Can Sem	ew 117C4516P2		•	•	
			•	CONTROL ROD DR	IVE
SA193-B		dwele	•	DWG - 768E534	
o ea. I	/2 dia. on 4 1/8 bolt c	117518		•	
			9. Nut 137	7C5934P1	
8. Plug 17			. XM-19 S		
SA182-F				nick z 2.62 dia.	
0.38 th	ick x 1.307 dia.	•			، ج <sup>ر</sup>
				n	0129
			•	0	

. . . .

	REPORT NO. P0059-009
	ICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. uired by the Provision of the ASME Code Rules. Section III. Div 7 1813-037 5HT- 11 46 46
) Manufactured byGenera	1 Electric Company, Castle Hayne Rd., Wilmington, N.C.
(b) Memiscured for Genera	1 Electric Company, San Jose, California (NEBG)
	Serial No. of PartA2468Nar'l Bd. No
(a) Constructed According to Da	rawing No Drawing Prepared by D. L. Patarson
	d Control Rod Drive, Model #7RDB144DG001
	ion III, Edition 1974 Addends date W'75 Case No. 1361-2 1
Remarks: Standard part	for use with Reactor. Hydrostatically tested at 1820 psi. (Brief description of service for which component was designed)
* Total number	of sheets - 2
inded in the component Design Si	
nuded in the component Design Si <u>12/30</u> 19 <u>80</u> milicate of Authorization Expires	Signed <u>GE, NEPD-WAD-QA</u> NPT Certificate Molderr June 16, 1981 Certificate of Authorization No. <u>NPT N-1151</u>
inded in the component Design Si <u>12/30</u> 19 80 milicate of Anchorization Expires CERTIFIC	ATION OF DESIGN FOR APPURTENANCE (when applicable)
12/30 19 80 12/30 19 80 milicate of Anchorization Expires CERTIFIC Design information on file st	GE, NEPD-WMD-QA       By       JUNE
12/30 19 80 12/30 19 80 milicate of Authorization Expires CERTIFIC Design information on file st. 22A5556, Rev. 1 Scress analysis report on file st. 22A4912, Rev. 2	GE, NEPD-WMD-QA       By       MPT Muture
12/30 19 80 12/30 19 80 refficate of Authorization Expires CERTIFIC Design information on file sc. 22A5556, Rev. 1 Saress analysis report on file sc. 22A4912, Rev. 2 Design specifications certified b	Signed       GE, NEPD-WMD-QA       By       JUNE
12/30 19 80 12/30 19 80 milicate of Authorization Expires CERTIFIC Design information on file st. 22A5556, Rev. 1 Scress analysis report on file st. 22A4912, Rev. 2	Signed       GE, NEPD-WMD-QA       By       JUNE         Signed       GE, NEPD-WMD-QA       By       MPT         June 16, 1981       Certificate of Authorization No.       NPT N-1151         ATION OF DESIGN FOR APPURTENANCE (when applicable)       NPT N-1151         E, NEFD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.          GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.   <
12/30 19 80 12/30 19 80 milicate of Anthorization Expires CERTIFIC Design information on file sc. 22A5556, Rev. 1 Saress analysis report on file sc. 22A4912, Rev. 2 Design specifications certified b Saress analysis report certified b	Signed       GE, NEPD-WMD-QA       By       MUL.         UNPT Certificate of Authorization No.       NPT N-1151         ATION OF DESIGN FOR APPURTENANCE (when applicable)         E, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         get N. Sridhar         Prof. Eng. State Calif         Reg. No.18345         CERTIFICATE OF SHOP INSPECTION
12/30 19 80 12/30 19 80 milicate of Anthorization Expires CERTIFIC Design information on file sc. 22A5556, Rev. 1 Scress analysis report on file sc. 22A4912, Rev. 2 Design specifications certified b Stress analysis report certified b L, the undersigned, holding a and/or the Scate or Province of of State of North C	Signed       GE, NEPD-WAD-QA       By       By         June 16, 1981       Certificate of Authorization No.       NPT N-1151         ATION OF DESIGN FOR APPURTENANCE (when applicable)       E, NEPD-WAD-QA, Castle Hayne Rd., Wilmington, N.C.         GE, NEPD-WAD-QA, Castle Hayne Rd., Wilmington, N.C.
12/30 19 80 12/30 19 80 reficence of Anthorization Expires CERTIFIC Design information on file sc. 22A5556, Rev. 1 Scress analysis report on file sc. 22A4912, Rev. 2 Design specifications certified b Stress analysis report certified b Stress analysis certified b Stress analysis report certified b Stress analysis certificate fold By signing this certificate fold By signing this certificate fold By signing this certificate fold	Signed       GE, NEFD-WMD-QA       By       MB         Signed       GE, NEFD-WMD-QA       By       NFT N-1151         June 16, 1981       Certificate of Authorization No.       NFT N-1151         ATION OF DESIGN FOR APPURTENANCE (when applicable)       N.       N.         E, NEFD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.       .       .         GE, NEFD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.       .       .         MB       N. Sridhar       Prof. Eag. State Calif.       Reg. No.18345         MB       N. Sridhar       Prof. Eng. State Calif.       Reg. No.18345         CERTIFICATE OF SHOP INSPECTION       Valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors         North Carolina       and employed by Department of Labor
12/30 19 80 12/30 19 80 relicate of Anthonization Expires CERTIFIC Design information on file at 22A5556, Rev. 1 Stress analysis report on file at 22A4912, Rev. 2 Design specifications certified b Stress analysis report certified b I, the undersigned, holding a and/or the State of North C Partial Data Report on and belief, the NPT Certificate Hold By signing this certificate, o Ing the part described in ti shall be liable in any manner f with this inspection.	pecification and Stress Report.)         _Signed       GE, NEPD-WMD-QA       By         _June 16, 1981       Certificate of Authorization No.       NPT N-1151         ATION OF DESIGN FOR APPURTENANCE (when applicable)         Z, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         mailer       Prof. Eng. State Callf         Reg. No.       Sridhar         Prof. Eng. State Callf       Reg. No.         Reg. No.       Sridhar         Prof. Eng. State Callf       Reg. No.         Valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors         North Carolina       and employed by Department of Labor         arolina       have inspected the part of a pressure vessel described in this         12/30       18 80 and state that to the best of my knowledge either the Inspector nor his employer makes any warranty, expressed as implied, concernables partial Data Report. Furthermore, seither the Inspector nor his employer to property damage of a loss of any kind arising from or connected
L, the undersigned, holding a sad/or the Scate or Province of	pecification and Stress Report.) Signed <u>GE</u> , <u>SEFD-WAD-QA</u> UNPT Certificate of Authorization No. <u>NPT N-1151</u> ATION OF DESIGN FOR APPURTENANCE (when applicable) E, NEFD-WAD-QA, Castle Hayne Rd., Wilmington, N.C. <u>GE</u> , <u>NEFD-WAD-QA</u> , Castle Hayne Rd., Wilmington, N.C. <u>GE</u> , <u>NEFD-WAD-QA</u> , Castle Hayne Rd., Wilmington, N.C. <u>W</u> B. N. Sridhar <u>Prof. Eng. State Callf</u> <u>Reg. No.18345</u> <u>Prof. Eng. State Callf</u> <u>Reg. No.18345</u> <u>CERTIFICATE OF SHOP INSPECTION</u> velid commission issued by the National Board of Boiler and Pressure Vessel Inspectors <u>North Carolina</u> and employed by <u>Department of Labor</u> <u>arolina</u> have inspected the part of a pressure vessel described in this <u>12/30</u> is <u>S9</u> and state that to the best of my knowledge either the Inspector sor his employer with the ASME Code Section III. <u>either the Inspector sor his employer</u> dy described is this <u>12/30</u> is <u>S9</u> and state that to the best of my knowledge for any personal injury of property damage or a loss of any kind arising from or connected <u>2/30</u> is <u>80</u> <u>NC</u> 775, PAWC2160, OHIO

•

•	<b>.</b>		Ŧe	N	ominal	Corra	sion			•
4.	Saell:	Material	Spec. No.) (MI	A. of Range S	hickness pecified)	ia. Allow	vance in.	0ia ft i	in. Length_	(t ir
5.	Seama	. Long	}	I.T.'		_ R.T	<u></u>	Efficiency	<u> </u>	. 7
		Gina		4.T. <sup>4</sup>		<b>R</b> .T.	•	No. of Courses		
ź.,	Heads:				_ T.S		(b) Materia	4	T.S.	•
		Location				Elliptical		Hemispherical		Side te Prese
			) Thickness	•			Apez Angle	Radius	Dismotor	(Conv. or Cone
			(Matt)	erial, Spec. N	le., T.S., Siz	e, Number)	Other (230)	ening(Der	cribe or Mtsc	h sketch)
7.	Jacket	Closure:		Amold has a	An Mannin		, if bolted, descr			
		(544	C1164 BR 0844 BB	a weid, 0 <b>8</b> 6 e		a dittaneious <sup>4</sup>	, u polled, descri	Drop V	'ei ght	
-	<b>n</b>	1	1250				575	Charpy	Impact	ft-
i.	Uesign	pressure <sup>1</sup>			psi a	<b>د</b> ن		At temp	». of	······································
_	s 9 and	10 to be con	apleted for tub	e sections						
								·		
).	Tube S	heets: Statio	ancy. Material		Di	a	Thic	kness in. A	ttachment	
	The second se	Float	iag. Material		Di	R	Thic	knessin. A Numb <del>er</del>	uschment	
	ti uoest	- Material'		0.D	ia, Th	ickness	OF 2825	Number	iype	
	<b>.</b>									(Ste. of U)
								s of heat exchan		(Str. of U)
				inner cham	bers of jac	keted vesse	els, or channel	s of heat exchan		(Str. of U)
e m	s 11-14	4 incl. to be Material	completed for	inner cham No	bers of jac ominal hickness_	keted vesse Corre	els, or channel	s of heat exchan	igers.	
em 	s 11-14 Sheii:	4 incl. to be Material	completed for T.S Spec. No.) (Min	inner cham No The of Ronge Sp	bers of jac ominal hickness _ becified)	keted vesse Corro in. Allow	els, or channel osion vance	Dia ft	ia. Length_	fti
em 1. 7	s 11-14 Sheil: Seams:	4 incl. to be Material	completed for T.S Spec. No.) (Min	inner cham No The of Ronge Sp	bers of jac ominal hickness _ becified)	keted vesse Corro in. Allow	els, or channel osion vance		ia. Length_	fti
	s 11-14 Sheii:	4 incl. to be Material	Completed for T.S Spec. No.) (Mir F	inner cham No Ti to of Ronge Sp I.T. <sup>1</sup>	bers of jac ominal hickness _ becified)	Corra in. Allow R.T	els, or channel osion wancein.	Diaft	ngers. ia. Length_	ft.,i
em 	s 11-14 Sheil: Seams:	4 incl. to be Material	Completed for T.S Spec. No.) (Mir F	inner cham No Tl o of Rongo Sp 1. T. <sup>1</sup>	bers of jac ominal hickness _ becified)	kered vesse Corra in. Allov R.T R.T	els, or channel osion wancein.	Diaft Efficiency No. of Courses	ngers. ia. Length_	ft.,i(
em 	s 11-14 Sheil: Seams:	4 incl. to be Material	Completed for T.S Spec. No.) (Mir F	ianer cham 	bers of jac ominal hickness _ hecified) _ T.S	.kered vesse Corra in. Allow R.T R.T	els, or channel osion wancein. (5) Material	Dia ft Elficiency No. of Courses	ngers. ia. Length_	ft.,i(
em I. <sup>1</sup>	s 11-14 Sheil: Seams:	4 incl. to be Material (Kind a Long Girth (a)-Material	Completed for T.ST.S Spec. No.) (Mir F	inner cham No. 11 . of Rorge Sp 1. T. <sup>1</sup> I. T. <sup>1</sup> Crown	bers of jac ominal hickness _ hickless _ T.S Knuckle	Ettipticei	els, or channel osion wancein. (5) Material Conical	Dia ft Efficiency No. of Courses	ngers. ia. Length_ T.S	fti
	s 11-14 Sheil: Seams: Heads	4 incl. to be Material	Completed for T.S Spec. No.) (Mir F F H	ianer cham Nu 	bers of jac ominal hickness _ hickness _ hic	Ekered vesse Corre in. Allow R.T. R.T. Ellipticei Retio	els, or channel osion wancein. (5) Material Conical	Dia ft Elficiency No. of Courses Hemispherical Radius	ngers. ia. Length_ T.S Flat	
	s 11-14 Sheil: Seams: Heads (a) Top	4 incl. to be Material	Completed for T.SSpec. No.) (Mir F F F Thickness	inner cham Ni L al Rongo Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	bers of jac ominal hickness _ hickness _ 	Ellipticei	els, or channel osion wancein. (b) Material Conical Apez Angle	Diaft Efficiency No. of Courses Hemispherical Redlus	ngers. ia. Length_ T.S Plat Diameter	
	s 11-14 Sheil: Seams: Heads (a) Top	4 incl. to be Material	Completed for T.SSpec. No.) (Mir F F F Thickness	inner cham Ni L al Rongo Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	bers of jac ominal hickness _ hickness _ 	Ellipticei	els, or channel osion wancein. (b) Material Conical Apez Angle	Diaft Efficiency No. of Courses Hemispherical Redlus	ngers. ia. Length_ T.S Plat Diameter	
em 	s 11-14 Sheil: Seams: Heads (a) Top	4 incl. to be Material	Completed for T.SSpec. No.) (Mir F F F Thickness	inner cham Ni L al Rongo Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	bers of jac ominal hickness _ hickness _ 	Ellipticei	els, or channel osion wancein. (b) Material Conical Apez Angle	Diaft Efficiency No. of Courses Hemispherical Redlus her fastening Drop V	T.S. Plat Diameter Describe or a eight	
	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remo	4 incl. to be Material	completed for T.SSpec. No.) (Mir F F F F F F F F F F F F F F F F F	inner cham Ni The al Ronge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	bers of jac ominal hickness_ becified) T.S Knuckle Redius	Ellipticel (c)	els, or channel osion wancein. (b) Material Conical Apez Angle	Diaft Efficiency No. of Courses Hemispherical Redlus her fastening Drop W Charpy	T.S. Plat Dismeter Describe or a limpact	
	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remo	4 incl. to be Material	completed for T.SSpec. No.) (Mir F F F F F F F F F F F F F F F F F	inner cham Ni L al Rongo Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius	bers of jac ominal hickness_ becified) T.S Knuckle Redius	Ellipticel (c)	els, or channel osion wancein. (b) Material Conical Apez Angle	Diaft Efficiency No. of Courses Hemispherical Radius her fascening Drop W Charpy	T.S. Plat Diameter Describe or a eight	
	s 11-14 Sheil: Seams: (a) Top (b) Cha If remo Design	4 incl. to be Material (Kind & Long Girch (a) Material Location b, bottom, endurated wable, bolts pressure <sup>3</sup>	completed for T.SSpec. No.) (Mir F F F F F F F F F F F F F F F F F	inner cham Ni L of Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Rodius	bers of jac ominal hickness_ bickless_ 	Ellipticei (c)	els, or channel osion wancein. (b) Material Conical Apez Angle	Diaft Efficiency No. of Courses Hemispherical Redlus her fastening Drop W Charpy	T.S. Plat Dismeter Describe or a limpact	
em 1. <sup>1</sup> 3. 1	s 11-14 Sheil: Seams: (a) Top (b) Cha If remo Design	4 incl. to be Material (Kind & Long Girch (a) Material Location b, bottom, endurated wable, bolts pressure <sup>3</sup>	completed for T.S Spec. No.) (Mir F F F F F F F F F F F F F	inner cham Ni L of Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Rodius	bers of jac ominal hickness_ bickless_ 	Ellipticei (c)	els, or channel osion wancein. (b) Material Conical Apez Angle	Diaft Efficiency No. of Courses Hemispherical Redlus her fastening Drop W Charpy	T.S. Plat Dismeter Describe or a limpact	ft,i 75 Side to Press (Conv. or Conc  (tach skotch)
	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remor Design s below	4 incl. to be Material (Kind a Long Girch (a) Material Location b, bottom, end manel vable, bolts pressure <sup>3</sup> to be compl	completed for T.SSoec. No.) (Mir F F F Thickness is used (a) eted for all ve	inner cham Ni L of Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Rodiuc (b ssels wher	bers of jac ominal hickness_ becified) T.S Knuckle Redius  psi au	Ellipticei Retio	els, or channel osion wancein. (b) Material Conical Apez Angle	Diaft Efficiency No. of Courses Hemispherical Radius her fastening Drop W Charpy  ar at temp	T.S. Plat Dismeter Describe or a limpact	
em 1. 7 3. 7 5.	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remor Design s below	4 incl. to be Material (Kind a Long Girth (a) Material Location b, bottom, enc manel vable, bolts pressure <sup>3</sup> to be compl Valve Outlet	completed for T.SSoec. No.) (Mir F F F Thickness is used (a) eted for all ve	inner cham Ni L of Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Rodiuc (b ssels wher	bers of jac ominal hickness_ becified) T.S Knuckle Redius  psi au	Ellipticei Retio	els, or channel osion wancein. ib) Material Content Apez Angle Ot	Diaft Efficiency No. of Courses Hemispherical Radius her fastening Drop W Charpy  at temp	T.S. Plat Dismeter Describe or a limpact	
em 1. 7 3. 7 5.	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remor Design Safety Nozzle Purpos	4 incl. to be Material (Kind a Long Girch (a) Material Location b, bottom, end manel vable, bolts pressure <sup>3</sup> to be compl Valve Outlet SI e (Inlet,	completed for T.SSpec. No.) (Mir F F F Thickness is used (a) eted for all ve s: Number	inner cham Nu I. of Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radiue (b	bers of jac ominal hickness eccfled)  Knuckle Redius  psi au e applicab	Ettipticei Retio	els, or channel osion wancein. ib) Material Content Apex Angle Ot	Diaft Efficiency No. of Courses Hemispherical Redius her fastening Drop W Charpy    Retin Retin	T.S. Plat Dismeter Describe or a eight Impact forcement	
	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remor Design Safety Nozzle Purpos	4 incl. to be Material	completed for T.SSoec. No.) (Mir F F F Thickness is used (a) eted for all ve	inner cham Nu I. of Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radiue (b	bers of jac ominal hickness_ becified) T.S Knuckle Redius  psi au	Ettipticei Retio	els, or channel osion wancein. ib) Material Content Apez Angle Ot	Diaft Efficiency No. of Courses Hemispherical Redius her fastening Orop W Charpy _oF at temp Rein	ngers. ia. Length_ T.S Plat Dismeter  Describe or a eight Impact . of	
em 1. 7 3. 7 5.	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remor Design Safety Nozzle Purpos	4 incl. to be Material (Kind a Long Girch (a) Material Location b, bottom, end manel vable, bolts pressure <sup>3</sup> to be compl Valve Outlet SI e (Inlet,	completed for T.SSpec. No.) (Mir F F F Thickness is used (a) eted for all ve s: Number	inner cham Nu I. of Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radiue (b	bers of jac ominal hickness eccfled)  Knuckle Redius  psi au e applicab	Ettipticei Retio	els, or channel osion wancein. ib) Material Content Apex Angle Ot	Diaft Efficiency No. of Courses Hemispherical Redius her fastening Drop W Charpy    Retin Retin	T.S. Plat Dismeter Describe or a eight Impact forcement	
	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remor Design s below Safety Nozzle Purpos	4 incl. to be Material (Kind a Long Girch (a) Material Location b, bottom, end manel vable, bolts pressure <sup>3</sup> to be compl Valve Outlet SI e (Inlet,	completed for T.SSpec. No.) (Mir F F F Thickness is used (a) eted for all ve s: Number	inner cham Nu I. of Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radiue (b	bers of jac ominal hickness eccfled)  Knuckle Redius  psi au e applicab	Ettipticei Retio	els, or channel osion wancein. ib) Material Content Apex Angle Ot	Diaft Efficiency No. of Courses Hemispherical Redius her fastening Drop W Charpy    Retin Retin	T.S. Plat Dismeter Describe or a eight Impact forcement	
4. erm 5. 5.	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remo Design s below Safety Nozzle Purpos Outler,	4 incl. to be Material (Kind & Long Girth (a) Material Location b, bottom, end manei vable, bolts pressure <sup>3</sup> to be compl Valve Outles si o (Intet, Drawn)	completed for T.SSpec. No.) (Mir F F Thickness is used (a) etted for all ve s: Number Number	inner cham Nu ad Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius (b ssels wher	bers of jac ominal hickness - T.S Knuckle Redius  psi au e applicab Size	kered vesse         Corra         in. Allow         _ R.T         _ R.T	erial Thi	Diaft Elficiency No. of Courses Hemispherical Radius her fastening Drop W Charpy  at temp chness M 	T.S	
em 1. 2. 3. 5.	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remo Design s below Safety Nozzle Purpos Outler, Inspect	4 incl. to be Material (Kind a Long Girch (a) Material Location b, bottom, endurated wable, bolts pressure <sup>3</sup> to be compl Valve Outlet st o (Intet, Drmm)	completed for T.SSpec. No.) (Mir F F Thickness isF used (a) eted for all ve s: Number Number s, No	inner cham Nu u of Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius (b ssels wher Dia. or Size	bers of jac ominal hickness - T.S Knuckle Redius  psi au e applicab Size size	kered vesse         Corra         in. Allow         _ R.T	erial Thi	Diaft Elficiency No. of Courses Hemispherical Radius her fastening Drop W Charpy   ckness M	T.S	
4. 4. 6.	s 11-14 Sheil: Seams: Heads (a) Top (b) Cha If remo Design s below Safety Nozzle Purpos Outler, Inspect	4 incl. to be Material (Kind a Long Girch (a) Material Location b, bottom, end manei vable, bolts pressure <sup>3</sup> to be compl Valve Outlet st o (Intet, Drmn)  tion Manhold gs: Handho	completed for T.SSpec. No.) (Mir F F Thickness is used (a) eted for all ve s: Number Number  s, No les, No	inner cham Ni u of Rorge Sp I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius (b ssels wher Dia_ or Size  Si  Si	bers of jac ominal hickness - T.S Knuckle Redius  psi au e applicab Size size ze	kered vesse         Corra         in. Allow         _ R.T	erial Thi	Diaft Elficiency No. of Courses Hemispherical Radius her fastening Drop W Charpy   ckness M	T.S	

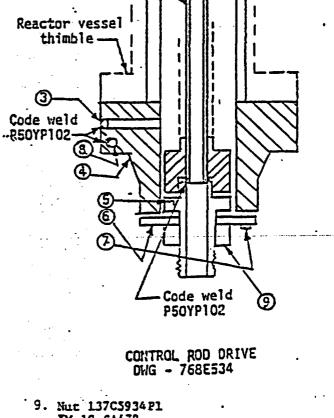
List other internal or external pressure with conscident temperature when applicable.

.

.

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT I As required by the Provision of the ASME C	Code Rules. Section III. Div. 1813-037 2
	EHT. 12 % 46 (
(a) Massifactured by General Electric Company, Castl	e Hayne Rd., Wilmington, N.C.
(b) Massfactured for General Electric Company, San Ju	ose, California (NEBG)
(b) semiliscruted to: (Name and address of N Certifics	nte Holder for completed nuclear components
2. Identification-Certificate Holder's Serial No. of PartA2468	Nat'l Bd. No
(a) Constructed According to Drawing No. 768E534G001 Drawing	D. L. Peterson
(b) Description of Part Inspected Control Rod Drive	e, Model #7RDB144DG001
	N207
(c) Applicable ASME Code: Section III, Edition 1974 Addenda	dareW'75 Case No1361-2_Class1
	an a
	•
T. Cap 166B9274P1	
(167A2343)	
SA182 - F316	Code weld
3/8 thick x I 1/16 0D	P50YP102
2. Indicator Pipe 166E9313P1	
SA312-TP316	
3/4 sch 40-seamless pipe	
0.113 wall thickness	·
1.065 max. dia.	Reactor vessel
• •	thimble
3. PTug 159A1176P1	

- SA182-F304 1/4 thick x 0.812 0D
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID
- 7. Cap Screw 117C4516P2 SA193-86 6 ea. 1/2 dia. on 4 1/8 bolt circle
- 8. Plug 175A7961P1
  SA182-F304
  0.38 thick x 1.307 dia.



00084

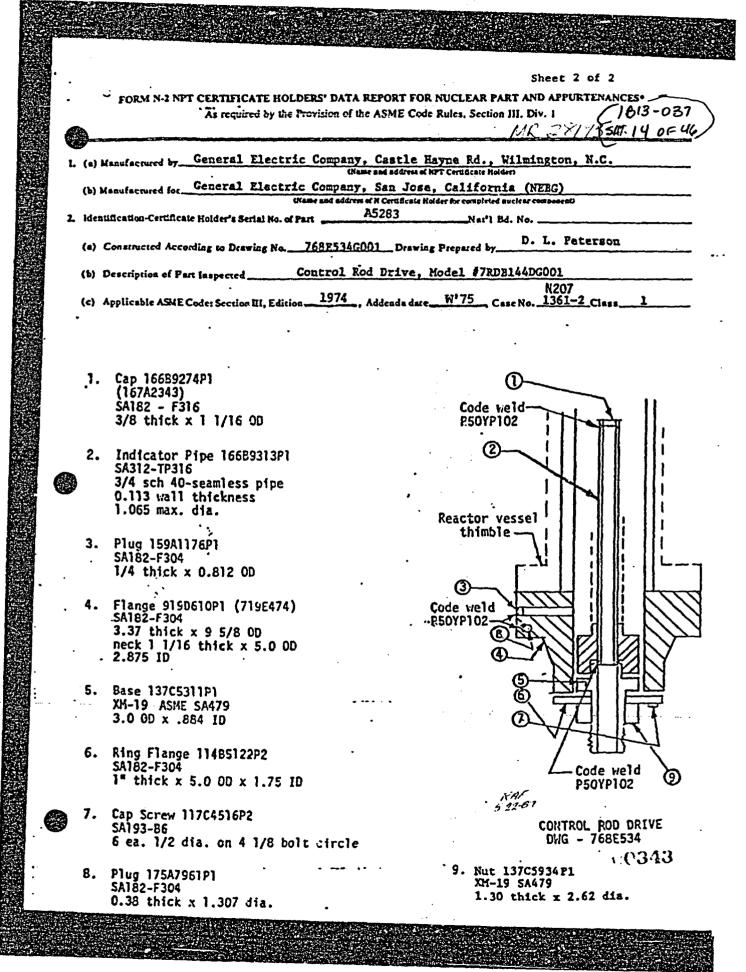
XM-19 SA479 .....1.30 thick x 2.62 dia.

REPORT NO. P0059-009

	REEL 12016/410 SOBJECT 1 02 4 FORM 3-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES The required by the Provision of the ASME Code Rules. Section III, Div. 1 1613-03 MR 28/94 Str13 - 4 L (a) Maanufactured by <u>General Electric Company</u> , Casele Hayne Rd., Wilmington, N.C. (Nume and sections of MPT Certificate Heiders
- 1	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES The required by the Provision of the ASME Code Rules. Section III, Div. 1 MR 28/94 SHT13 K L (a) Massiscrered by General Electric Company, Castle Exyns Rd., Wilmington, N.C. INume and sections of NPT Certificate Heiders
- 1	FORM : 12 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. The required by the Provision of the ASME Code Rules. Section III, Div. 1 (1013-03) MR 28/94 Sur13 % L (a) Manufactured by <u>General Electric Company</u> , Castle Exyne Rd., Wilmington, N.C. (Name and sections of NPT Certificate Heiders)
	The required by the Provision of the ASME Code Rules. Section III, Div. 1 (1613-03 MR 28194 Sur13 % Castle Exyme Rd., Wilmington, N.C. (Name and section of HTT CardScate Heiders)
_ 1	MC 28194 SHT13 % C L (a) Manufactured by General Electric Company, Castle Eayne Rd., Wilmington, N.C. (Name and section of NTT Corescute Heiders
- 1	L (s) Masufactured by General Electric Company, Castle Esyna Rd., Wilmington, N.C. (Name and
- I	
	(b) Manufactured for General Electric Company, San Jose, California (NEEG)
	Utilities and address of H Certificate Halder for completed mechanic components
1	2. Identification-Certificate Holder's Serial No. of Part A5283Nar'l Bd. No
	(a) Constructed According to Drawing No Drawing Prepared by D. L. Paterson
	(b) Description of Part Inspected Control Ecd Drive, Model #7EDB144DG001 N207
	(c) Applicable ASHE Codes Section III, Edition 1974, Addende date W175, Case No. 1361-2 Class 1
	Remarker Standard part for use with Reactor. Hydrostatically tested at 1820 pai.
د	(Brief description of service for which suspenses was designed)
	* Total number of sheets - 2
÷ C	Cartificace of Authorization Expires State 16, 1994 Certificate of Authorization No. NPT N-1151
ſ	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
	Design information on file a GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA
	22A5556, Rev. 2 GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA
	Scress malysis report on file st Libertie College State College State States
	Design specifications centified by B. N. Sridhar Prof. Eng. Sare Calif Reg. No. 18345
Ľ	Stress analysis report centified by B. N. Srichar Prof. Eng. State Calif Reg. No. 18345
[	CERTIFICATE OF SHOP INSPECTION
	I, the undersigned, holding a valid commission issped by the National Board of Boiler and Pressure Yessel Inspector
	and/or the State or Province of North Carolina and employed by Department of Labor
	of
	and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, mether the Inspector nor his employer makes any warranty, expressed or implied, concert
	ing the part described in this Pertial Data Report. Furthermore, mether the inspector nor his employe shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected
1	with this lassection.
	2/24 83
	-
	2/24 83
	Dare 19 N.C. 723, PA.WC1766, OHIO 5-2 Interview Commissions Notional Bases, State, Provide and Net
	Daze
	Dare N.C. 723, PA.WC1766, OHIO 5-2 

					•				بو المد مؤ	2
				FC	)FM N-2 (b	eck)		• ••	<b>-</b>	••• ·
lu	ens 4-8 Incl. to be con	npleted for si	ingle vall	vessels, je	ickets of jac	kesed vesse	s, or she	lls of her	a szchanger	8.
4	, Stell: Material	T.S.	N T a. of Ronge 1	lo <del>ninal</del> bickaess_ Specifica)	Corn	usion vaceia	. Dis	_ ft i	n. Longth	fe in
5.	. Sesan Long		I.T. <sup>1</sup>		_ R.T		_ Efficie	×7	· · · · · · · · · · · · · · · · · · ·	. %
6.	. Headar (a) Macerial. Lorotion			i T.S Konekte					T.S Flat	His to Press.
	(Top, bottom, sado) (1)			Rodus		Ages Acels		di <b>us</b>	Diamotor	(Cenv. et Coat.
	(b)									• • • • • • • • • • • • • • • • • • •
	If removable, bolts u	eed bea	wal, Spec.	Yen, T.J., St.	ee, Number)	Other fai	ttenia g	(Des	cribe or stan	th sketch)
7.	Jacket Closuret		Lweid, Dar, a	its, if bargiv	e diaraciese	, if balted, dea	tribe of ski	neh)		
								Drop T	eight	fe-l
8.	Design pressure <sup>2</sup>	1250		pai s	×	575	°F			0
lter	as 9 and 10 to be comp	leved for cub	e sections	L						
							• •	· · ·	·····	
9.	Tube Skeetst Station	rry, Material	(Kind & Spi	Di re. No.)	(Subject to	e pressure)	ickaess	in. A	itachment	Weided, Seiter)
	Floatin Tubest Material	g. Material		Di			ickaess_	ia. Ai	tachment	
	Tuber Manial	•				ine he	•		<b>.</b>	
10.	I UDERI MALETIRI		_ 0.0	ia. Th	lickness		e. Numl		I ype	
10.			_ 0.0	is, Th	lickoess		e. Num		Lype	(Str. or U)
lter	as II-Id incl. to be o	moleced for a	inere cher	here of inc	tered yess	els, or chase	els of he	a exchat	C#F3-	(30% ef U)
lter	as II-Id incl. to be o	moleced for a	inere cher	here of inc	tered yess	els, or chase	els of he	a exchat	C#F3-	(30% ef U)
lors	as II-Id incl. to be o	moleced for a	inere cher	here of inc	tered yess	els, or chase	els of he	a exchat	C#F3-	(30% 67 0)
lter 11.	as 11-14 incl. to be co Shell: Material (Kinda 3;	T.S.	inner char No. Mange St	bers of jac ominal hickness perifies	cketed vess Corn is. Allo	els, or chaan asion waaceia	els of he	. fti	igers.	(39. ar 0)
lter 11.		T.S.	inner char No. Mange St	bers of jac ominal hickness perifies	cketed vess Corn is. Allo	els, or chaan asion waaceia	els of he	. fti	igers.	(39. er ()
lten L1.	as 11-14 incl. to be co Shell: Material (Einda Sy Seama: Long	T.S. T.S. pee. No.) (Min. H	inner chan N T of Rongo Sy	bers of jac omiaal hickness pectfled	Corn is. Allor R.T	els, or chana asion waceia	els of he Dis Ellicion	. (t)	in. Length_	(39. ar 0)
10m 11. 12.	as 11-14 incl. to be co Shell: Material (Kinda 3; Seama: Long Girth	T.ST.S T.S pee. Ne.) (MinH	inner chan N. T. of Rongo Sy 	bers of jac omiaal hickness pectfled	Corn is. Allor R.T R.T	els, or chana asion wace <u>ia</u>	els of he Dis _ Ellicia _ No. of (	. (t) acy Courses .	ia. Length_	(38. er 0)
10m 11. 12.	as 11-14 incl. to be co Shell: Material (Einda Sy Seama: Long	T.ST.S T.S pee. Ne.) (MinH	inner cham Ni . of Rorge 3 . T. 1 . T. 1	bers of jac omiaal hickness pretfied	ctered vess Corr is. Allor R.T R.T	els, or chaan asion waceia (b) Maceri	els of he Dis _ Ellicion _ No. of (	16 exchan - (ti 10i 10i Courses .	ia. Length_	(30. er 0)
10m 11. 12.	as 11-14 incl. to be co Shell: Material (Kinda 3; Seama: Long Girth	T.ST.S T.S pee. Ne.) (Min. H	inner chan N. T of Rorge St T. 1 	bers of jac ominal hickness seeffloot _ T.S Kaurkie	ctered vess Corr is. Allor R.T R.T	els, or chana asion waceia 	els of he Dis _ Elficien No. of ( al Home	. (t) acy Courses .	Igers. 	(30°, ar U) ftif ftif ide te Press
10m 11. 12.	as 11-14 incl. to be co Shell: Material		Inner cham Ni T ad Rango 3 .T. <sup>1</sup> .T. <sup>1</sup> .Creves Radius-	bers of jac omiaal hickaess perfiled - T.S Kaurkie Redua	Cherced vesse is. Allor R.T R.T Elliptical Rotio	els, or chana asion waceia (b) Maceri Conicai	els of he Dis _ Elficien No. of ( al Home	te exchan	rgers. 	(30°, ar U)
10m 11. 12.	as 11-14 incl. to be co Shell: Material (Kind a 3; Seama: Long Girch Heads (a) Material Location (a) Top, bortom, enda (b) Channel		Inner cham Ni To af Rango 3 T. 1 . T. 1 . T. 1 Crewn Radius	bers of jac omiaal hickness_ pretfloct	Chered vess Corn is. Allor R.T R.T R.T Elliptical 	els, or chann asion whatein (b) Materi Content Apez Afgle	els of he Dis _ Efficien No. of ( al Homo 	ac exch so fti acyi Courses . phoriest due	rgers. 	(30°, ar U) ftif ftif ide te Press
10m 11. 12.	as 11-14 incl. to be co Shell: Material (Kind a 3; Seama: Long Girch Heads (a) Material Location (a) Top, bortom, ends		Inner cham Ni To af Rango 3 T. 1 . T. 1 . T. 1 Crewn Radius	bers of jac omiaal hickness_ pretfloct	Chered vess Corn is. Allor R.T R.T R.T Elliptical 	els, or chann asion whatein (b) Materi Content Apez Afgle	els of he Dis _ Elficien No. of ( al Home	Le exchan le exchan le exchan le exchan courses . coing	T.S Flat Disactor	(30°, ar U) 
Iten 11. 12.	as 11-14 incl. to be co Shell: Material (Kind a 3; Seama: Long Girch Heads (a) Material Location (a) Top, bortom, enda (b) Channel		Inner cham Ni To af Rango 3 T. 1 . T. 1 . T. 1 Crewn Radius	bers of jac omiaal hickness_ pretfloct	Chered vess Corn is. Allor R.T R.T R.T Elliptical 	els, or chann asion whatein (b) Materi Content Apez Afgle	els of he Dis _ Efficien No. of ( al Homo 	coing	Igers.	(30°. er U) 
Iten 11. 12. 13.	as 11-14 incl. to be co Shell: Material (Kinda 5; Seams: Long Girth Heads (a) Material Location (a) Top, bottom, ends (b) Channel If removable, bolts us		Inner cham N of Rango St T. 1 	bers of jac ominal hickness sectiled - T.S Knuckle Rodus	Chered vess Corn R.Allor R.T R.T  Elliptical  Ratio	els, or chann asion whatein (b) Materi Content Apez Afgle	els of he Dis _ Efficien No. of ( al Homo 	coing	T.S Flat Disactor	(30°. er U)
Iten 11. 12. 13.	as 11-14 incl. to be co Shell: Material (Kinda 5; Seams: Long Girth Heads (a) Material Location (a) Top, bottom, ends (b) Channel If removable, bolts us	Thiskeese	Inner cham N of Rango St T. 1 	bers of jac ominal hickness sectiled - T.S Knuckle Rodus	Chered vess Corn R.Allor R.T R.T  Elliptical  Ratio	els, or chann asion whatein (b) Materi Content Apez Afgle	els of he Dia Elficien No. of 4  Homeo  Ro  Dther fast	coing	Igers.	(30°, ar U)
100m 11. 12. 13.	as 11-14 incl. to be co Shell: Material (Kinda 5; Seams: Long Girth Heads (a) Material Location (a) Top, bottom, ends (b) Channel If removable, bolts us	T.S	Inner cham N of Rango Sy T. I 	bers of jac ominal hickness sectiled - T.S Kauekle Redius 	Corr is, Allor R.T R.T R.T   Elliptical Ratio	els, or chann asion whatein (b) Materi Content Apez Afgle	els of he Dia Elficien No. of 4  Homeo  Ro  Dther fast	coing	Igers.	(30°, ar U)
Item II. II. II. II. II. II. II.	as 11-14 incl. to be complex Shell: Material	Thickness	inner cham N of Rargo Sy T. 1 	bers of jac ominal hickness seefflod T.S Knurkle Redius 	Corr is, Allor R.TR.T.	els, or chana asion waceia (b) Maceri Conicai Apoz Algie	els of he Dia Elficien No. of 4  Homeo  Ro  Dther fast	coing	Igers.	(30°. er U)
Item 11. 12. 13. 14. 14.	as 11-14 incl. to be co Shell: Material	Thickness	inner cham N of Rargo Sy T. 1 	bers of jac ominal hickness seefflod T.S Knurkle Redius 	Corr is, Allor R.TR.T.	els, or chann asion whatein (b) Materi Content Apez Afgle	els of he Dia Elficien No. of 4  Homeo  Ro  Dther fast	coing	Igers.	(30°. er U)
Item 11. 12. 13. 14. 14.	as 11-14 incl. to be co Shell: Material	Thickness	inner cham N of Rargo Sy T. 1 	bers of jac ominal hickness seefflod T.S Knurkle Redius 	Corr is, Allor R.TR.TR	els, or chana asion waceia (b) Maceri Conicai Apoz Algie	els of he Dia Elficien No. of 4  Homeo  Ro  Dther fast	coing	T.S Plat Disseribe of i inpact	(30°. er U)
Item 11. 12. 13. 14. 14.	as 11-14 incl. to be co Shell: Material	Thekaesa sed (a)	inner cham N of Rargo Sy T. 1 	bers of jac ominal hickness pretfloof T.S Knurkle Rodius 	Corr is. Allor R.T R.T R.T R.T R.T Elliptical Ratio  (c) deL	els, or chann osion warein (b) Maceri Content Apoz Abgie 	els of he Dia Elficien No. of 4  Homeo  Ro  Dther fast	courses . courses . courses . phortest dus cosing Charpy at comp Rein	Igers.	(30°. er U)
Item 11. 12. 13. 14. 14.	as 11-14 incl. to be co Shell: Material	Thekaesa sed (a)	inner cham N of Rorge Sy T. 1 	bers of jac ominal hickness pretfloof T.S Knurkle Rodius 	Corr is. Allor R.TR.T R.T	els, or chann osion wacein (b) Maceri Content Apoz Abgie (content 	els of he Dia _ Elficien No. of f al Homo Ra  Dther fast	courses . courses . courses . phortest dus cosing Charpy at comp Rein	Igers.	(30°. er U)
Item 11. 12. 13. 14. 14.	as 11-14 incl. to be co Shell: Material	Thekaesa sed (a)	inner cham N of Rorge Sy T. 1 	bers of jac ominal hickness pretfloof T.S Knurkle Rodius 	Corr is. Allor R.TR.T R.T	els, or chann osion wacein (b) Maceri Content Apoz Abgie (content 	els of he Dia _ Elficien No. of f al Homo Ra  Dther fast	courses . courses . courses . phortest dus cosing Charpy at comp Rein	Igers.	(30°. er U)
Item II. II. II. II. II. II. II. II. II. II	as 11-14 incl. to be co Shell: Material	T.S.           T.S.           pee. Ne.) (Min.          H           Thickness              sed (1)              Number	inner cham N of Rorgo Sy T. 1 	bers of jac ominal hickness seeffloof T.S Kauetkie Rodius 	Cherced vesse Corr 	els, or chann osion wacein (b) Materi Content Apez Abgie 	els of her	AL EXCHAN	Igers.	(30. ar U)
Item II. II. II. II. II. II. II. II. II. II	as 11-14 incl. to be co Shell: Material	T.S.           T.S.           pee. Ne.) (Min.          H           Thickness	inner chan N of Rargo Sr T. 1 	bers of jac ominal hickness seeffloof T.S Kaustio Rodus 	Cherced vesse Corr 	els, or chann osion wacein (b) Materi Content Apez Abgie (content torial T	els of he Dia _ Elficien No. of f al Homes  Dther fast	AL EXCHAN	Igers.	(30. ar U)
Item II. II. II. II. II. II. II. II. II. II	as 11-14 incl. to be co Shell: Material	Despleced for i           T.S.           pre. Ne.) (Min.          H           Thickness          H          H          H          H          H	inner chan N . of Rargo Sr T. 1 . T. 1 . T. 1 . Crewn Radius 	bers of jac ominal hickness	Chered vesse Corr 	els, or chann osion wacein (b) Materi Content Apez Abgie 	els of he Dia _ Elficien No. of f al Homes  Dther fast	AL EXCHAN	Igers.	(30. ar U)
In 12. 13. 14. 15. 16. 17.	as 11-14 incl. to be co Shell: Material	Despleced for i           T.S.           pre. Ne.) (Min.          H           Thiskosse          H           Thiskosse          H           Thiskosse          H           Thiskosse          H           Thiskosse          H           Number	inner chan N . of Rargo Sr T. 1 . T. 1 . T. 1 . Crewn Radius 	bers of jac ominal hickness pretition T.S Knurkte Rodus  b)  status Size Size ize	Chered vesse Corr 	els, or chann osion wacein (b) Maceri Content Apos Abgin 	els of he	AL EXCHAN	Igers.	(30. ar U)

#### REPORT NO. P0059-009



		T NO. P0059-
	50	eet 1 of 7
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEA As required by the Provision of the ASME Code Rules. Se	R PART AND APPU ection III. Div.	RTENANCES 6/8-037 - 15 1 4 40
(a) Manufactured by General Electric Company, Castle Hayne Rd	i., Wilmington	, N.C.
(b) Manufactured for General Electric Company, San Jose, Calif (Name and address of N Certificate Holder for comp	fornia (NEBG)	
Identification-Certificate Holder's Serial No. of Part A3703Na		
(a) Constructed According to Drawing No Drawing Prepared	i byD. L. Pa	terson
(b) Description of Part Inspected Control Rod Drive, Model #7RDB1	144DG001 N207	
(c) Applicable ASME Code: Section III, Edition 1974 , Addenda date W'75		
Remarks: Standard part for use with Reactor. Eydrostatica ; (Brief description of service for which componen	illy tested at	1820 psi.
* Total number of sheats - 2		
mus to the rules of construction of the ASME Code Section III. the applicable Design Specification and Stress Report are not the responsibility of the NP, te Holder for appurtenances is responsible for furnishing a separate Design Specification ruled in the component Design Specification and Stress Report.) me	and Stress Report is	the appurtenance
the applicable Design Specification and Stress Report are not the responsibility of the NP te Holder for appurtenances is responsible for furnishing a separate Design Specification cluded in the component Design Specification and Stress Report.) $\frac{7/23}{19 \ 81} \ Signed \ \frac{GE, \ NEPD-WMD-QA}{(NPT Certificate Holder)} By (MPT Certificate Holder)$ ertificate of Authorization Expires <u>September 15, 1981</u> Certificate of A CERTIFICATION OF DESIGN FOR APPURTENANCE ( GE, NEPD-WMD-QA, Castle Havne Rd., W	T Certificate Holder and Stress Report is Authorization No. 2 when applicable)	NPT N-1151
be applicable Design Specification and Stress Report are not the responsibility of the NP te Holder for appurtenances is responsible for furnishing a separate Design Specification cluded in the component Design Specification and Stress Report.) $\frac{7/23}{19} \frac{81}{19} \frac{\text{Signed}}{\text{GE}, \text{NEPD-WMD-QA}} \frac{\text{GE}}{\text{WPT Certificate Holder}} By                                    $	T Certificate Holder and Stress Report is Authorization No. 2 when applicable)	NPT N-1151
be applicable Design Specification and Stress Report are not the responsibility of the NP te Holder for appurtenances is responsible for furnishing a separate Design Specification cluded in the component Design Specification and Stress Report.) $\frac{7/23}{19} \frac{81}{19} \frac{81}{19} \frac{\text{GE}, \text{NEPD-WMD-QA}}{(NPT Certificate Holder)} Bycontrol of Authorization Expires September 15, 1981 Certificate of ACERTIFICATION OF DESIGN FOR APPURTENANCE (GE, NEPD-WMD-QA, Castle Hayne Rd., W22A5556, Rev. 2Stress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd.,22A4912, Rev. 2$	T Certificate Holder and Stress Report is Authorization No. 2 when applicable)	NPT N-1151
be applicable Design Specification and Stress Report are not the responsibility of the NP te Holder for appurtenances is responsible for furnishing a separate Design Specification cluded in the component Design Specification and Stress Report.) me	T Certificate Holder and Stress Report is Authorization No. 2 when spplicable) Milmington, N.C.	f the appurtenand 
be applicable Design Specification and Stress Report are not the responsibility of the NP te Holder for appurtenances is responsible for furnishing a separate Design Specification cluded in the component Design Specification and Stress Report.) $\frac{7/23}{19} \frac{81}{19} \frac{81}{19} \frac{\text{GE}}{\text{Signed}} \frac{\text{GE}}{\text{CERTIFICATION OF DESIGN FOR APPURTENANCE}} By CERTIFICATION OF DESIGN FOR APPURTENANCE ( GE, NEPD-WHD-QA, Castle Hayne Rd., W 22A5556, Rev. 2 Scress analysis report on file at GE. NEPD-WHD-QA, Castle Hayne Rd., 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof$	T Certificate Holder and Stress Report is Authorization No. 2 when applicable) Hilmington, N.C. Wilmington, N.C. E. Eng. State Calif E. Eng. State Calif	f the appurtenand 
be applicable Design Specification and Stress Report are not the responsibility of the NP te Holder for appartenances is responsible for furnishing a separate Design Specification huded in the component Design Specification and Stress Report.) me7/2319_81SignedGE, NEFD-WMD-QABy/ me7/2319_81SignedGE, NEFD-WMD-QABy/ me7/2319_81SignedGE, NEFD-WMD-QABy/ meGE, NEFD-WMD-QA, Castle Hayne Rd., W Design information on file stGE, NEFD-WMD-QA, Castle Hayne Rd., W 22A5556, Rev. 2 Stress analysis report on file at <u>GENEFD-WMD-QA</u> Castle Hayne Rd., 22A4912, Rev. 2 Design specifications certified byB. N. SridharProf Stress analysis report certified byB. N. SridharProf CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of	T Certificate Holder and Stress Report is Authorization No. 2 when applicable) Milmington, N.C. Wilmington, N.C. E.Eng. State Calif E.Eng. State Calif Boiler and Pressure	f the appurtenance 
he applicable Design Specification and Stress Report are not the responsibility of the NP is Holder for appurtenances is responsible for furnishing a separate Design Specification inded in the component Design Specification and Stress Report.) ne	T Certificate Holder and Stress Report is Authorization No. When applicable) Milmington, N.C Wilmington, N.C Wilmington, N.C Ulmington, N.C Boiler and Pressure that of Labor f a pressure vessel and state that to the b ME Code Section III. Arrany, expressed	rescribed in the separtements SPT N-1151 
he applicable Design Specification and Stress Report are not the responsibility of the NP te Holder for appurchances is responsible for furnishing a separate Design Specification indeed in the component Design Specification and Stress Report.) The	T Certificate Holder and Stress Report is Authorization No. When applicable) Milmington, N.C Wilmington, N.C Wilmington, N.C Ulmington, N.C Boiler and Pressure that of Labor f a pressure vessel and state that to the b ME Code Section III. Arrany, expressed	The appurtenned The appurtenned NPT N-1151  .C.      

.

.

This form (E000401 may be obtained from the Crost Didth ASMETSTE E. Now York, N.Y. 10017

. .

				N	ominal	Corre	stion			
4.	Shell:	Material	T.S Spee. No.) (XU	T L of Range S	hickness ipec(led)	. in. Allow	vance in.	Dia ft	in. Length_	ft is
5.	Seama	Long	н	.T.'		_ R.T		Efficiency	·····	. 7
		Ciah	u	<b>T</b> 1		D T		No. of Courses		
	Headau							No. of Courses		
		Location		Crown	Knuckie	Illiptical	Contral	Hemispherical		Side te Press
		, bottom, ende)			•	Ratie		Radius	Dismeter	(Conv. or Conc
								<u></u>		
		vable, bolta u						ening(De	·	
			(Mate	rtal, Spee. N	le., T.3., 5ise	, Number)		(De	eribe or attac	h sketch)
•	Jacket (	Closure:(Desci	ibe as ages and	weld, bar, e	tc. If bar give	dimensions,	if bolted, descri	be or shetch}		
		-	•					Drop 1		
	Design	pressure <sup>3</sup>	1250		psi se		575			ft+l 0
_										
11	is 9 and	10 to be comp	pleted for tube	e sections						
	Tube Sh	eets: Station	ary. Material		Di 1		Thic	kaessia. A		Velded, Baited)
	<b>.</b>	Floatin	g. Material .		Dia	•	Thic	kaessia. A Number	ttachment	
•	Tubes:	Material		_ 0.0	in, Thi	ckness	OF \$*\$*.	Number	Type	(Str. or 17)
2 61	s 11-14	incl. to be co	ompleted for i	oner cham	bers of iscl	eted vesse	is, or channel	s of heat eacha		
				N	minal	Corro	sion			
	Sheil:	Material	T.S	71	ominal hickness	Corro _in. Allon	sion vancein.	Di 2 ft		fx in
		(X ind & S	pec. Xo.) (Min.	of Range Sp	ecified)	_ia. Allos	vance		in. Lengch_	
		(X ind & S	pec. Xo.) (Min.	of Range Sp	ecified)	_ia. Allos	vance	Di 2, (t Efficiency	in. Lengch_	ft ia 7
-	Seama;	(Xind & St	рес. Хө.) (Min. Н.		hickness bec:fled)	_in. Allon _ R.T _ R.T	vancein.	Efficiency	in. Lengch_	_ 7
-	Seama;	(Xind & 3)	рес. Хө.) (Min. Н.		hickness bec:fled)	_in. Allon _ R.T _ R.T	vancein.	Efficiency	in. Lengch_	_ 7.
-	Seams; Heads	(Xind & 3)	рес. Хө.) (Min. Н.		T.S.	is. Allow _ R.T _ R.T Elliotical	vancein. in. in.	Efficiency No. of Courses	in. Lengch_	_ 7.
-	Seams; Heads	(Xind & S Long Girth (a) Material _ Location	pec. No.) (Min. Hi Hi Hi Hi 		T.S. Knuckie Rediue	is. Allon _ R.T _ R.T _ R.T Elliptical Ratio	(5) Material Concel Apex Angle	Efficiency No. of Courses Hemispherical	In. Lengch_ T.S Flat Diameter	_ 7. Side to Press. (Cany, or Cone.
-	Seams; Heads (a) Top, (b) Char	(Xind & S Long Girth (a) Material _ Location , bottom, enda	pec. No.) (Min. Hi Hi Hi  Thickness		T.S. Knuckie Rediue	is. Allow _ R.T _ R.T Elliptices Retio	(b) Material Conical Apex Angle	Efficiency No. of Courses Hemispherical Redlus	in. Lengch_ T.S Flat Diameter	_ 7. Side to Press. (Cany, or Cone.
-	Seams; Heads (a) Top, (b) Char	(Xind & S Long Girth (a) Material _ Location , bottom, enda	pec. No.) (Min. Hi Hi Hi  Thickness		T.S. Knuckie Rediue	is. Allow _ R.T _ R.T Elliptices Retio	(b) Material Conical Apex Angle	Efficiency No. of Courses Hemsepherscal Redius her fastening	In. Length_	_ 72 Side to Press. (Canv. or Cone.
-	Seams; Heads (a) Top, (b) Char	(Xind & S Long Girth (a) Material _ Location , bottom, enda	pec. No.) (Min. Hi Hi Hi  Thickness		T.S. Knuckie Rediue	is. Allow _ R.T _ R.T Elliptices Retio	(b) Material Conical Apex Angle	Efficiency No. of Courses Hemispherical Redius her fastening Drop W	In. Length_	_ 72 Side to Press, (Conv. or Cone.
2.	Seams: Heads (a) Top, (b) Char If remov	(Xind & S Long Girth (a) Material _ Location , bottom, enda	pec. No.) (Min. Hi Hi Hi  Thickness		T.S Xnuckie Rediue	is. Allow _ R.T _ R.T Elliptices Retio	(5) Material Conical Apez Angle	Efficiency No. of Courses Hemsepherical Radius her fastening Drop W Charpy	In. Length_	_ 73 Side to Press. (Conv. or Cone.
2.	Seams: Heads (a) Top, (b) Char If remov	(Xind & S Long Girth (a) Material _ Location , bottom, ends anei rable, bolts us	pec. No.) (Min. Hi Hi Hi Hi  Thickness  sed (a)		T.S Xnuckie Rediue	is. AllonR.TR.T Elliptical Ratio(c)	(5) Material Conical Apez Angle	Efficiency No. of Courses Hemsepherical Radius her fastening Drop W Charpy	Impact	_ 75 Side to Proos. (Coav. or Cone.
· ·	Seams: Heads (a) Top, (b) Char If remov Design (	(Xind & S Long Girth (a) Material _ Location , bottom, ends anei rable, bolts us	pec. No.) (Min. H,_H, H, _		T.S Xnuckie Redius	is. AllonR.TR.T Elliptical Ratio(c)	(5) Material Conical Apez Angle	Efficiency No. of Courses Hemsepherical Radius her fastening Drop W Charpy	Impact	_ 75 Side to Proos. (Coav. or Cone.
-	Seams: Heads (a) Top, (b) Char If remov Design ; s below	(Xind & Sy Long Girth (a) Material Location , bottom, ends anei rable, bolts us pressure <sup>1</sup> to be complet	ed for all ves		T.S Xnuckie Rediue	is. AllonR.TR.T Elliptical Ratio(c)	vancein.	Efficiency No. of Courses Hemsepherical Radius her fastening Drop W Charpy	Impact	_ 75 Side to Proos. (Conv. or Cone.
2.	Seams: Heads (a) Top, (b) Char If remov Design ; s below	(Xind & Sy Long Girth (a) Material Location , bottom, ends anel rable, bolts us pressure <sup>2</sup> to be complet false Outlets	ed for all ves		T.S Xnuckie Rediue	is. AllonR.TR.T Elliptical Ratio(c)	vancein.	Efficiency No. of Courses Hemsepherical Radius her fastening Drop W Charpy	Impact	_ 75 Side to Proos. (Conv. or Cone.
	Seams: Heads (a) Top, (b) Char If remov Design s below Safety V Nozzles Purposo	(Xind à S Long Girth (a) Material Location , bottom, ends anei rable, bolts us pressure <sup>2</sup> to be complet falve Outlets:	ed for all ves		T.S Xnuckie Rediue  psi at psi at	is. AllonR.TR.T Elliptical Ratio(c)	vancein.	Efficiency No. of Courses Hemispherical Redius her fastening Orop W Charpy _OF at temp	in. Length_ T.S Plat Diameter  Describe or at right Impact of	_ 72 Side (9 Press. (Conv. or Cone. 
-	Seams: Heads (a) Top, (b) Char If remov Design s below Safety V Nozzles	(Xind à S Long Girth (a) Material Location , bottom, ends anei rable, bolts us pressure <sup>2</sup> to be complet falve Outlets:	ed for all ves		T.S Xnuckie Rediue  psi at psi at	ia. AllonR.TR.T Elliptical Ratio(c) c	vancein.	Efficiency No. of Courses Hemispherical Redius her fastening Orop W Charpy _OF at temp	in. Length_ T.S Flat Dismeter  Describe or at lanpact o, of	_ 73 Side to Proos. (Conv. or Cone.
-	Seams: Heads (a) Top, (b) Char If remov Design s below Safety V Nozzles Purposo	(Xind à S Long Girth (a) Material Location , bottom, ends anei rable, bolts us pressure <sup>2</sup> to be complet falve Outlets:	ed for all ves		T.S Xnuckie Rediue psi at psi at Size	ia. AllonR.TR.T Elliptical Ratio(c) c	vancein.	Efficiency No. of Courses Hemispherical Redius her fastening Orop W Charpy _OF at temp	in. Length_ T.S Plat Diameter  Describe or at right Impact of	_ 72 Side (9 Press. (Conv. or Cone. 
-	Seams: Heads (a) Top, (b) Char If remov Design s below Safety V Nozzles Purposo	(Xind à S Long Girth (a) Material Location , bottom, ends anei rable, bolts us pressure <sup>2</sup> to be complet falve Outlets:	ed for all ves		T.S Xnuckie Rediue psi at psi at Size	ia. AllonR.TR.T Elliptical Ratio(c) c	vancein.	Efficiency No. of Courses Hemispherical Redius her fastening Orop W Charpy _OF at temp	in. Length_ T.S Plat Diameter  Describe or at right Impact of	_ 72 Side (9 Press. (Conv. or Cone. 
	Seams: Heads (a) Top, (b) Char If remov Design Safety V Nozzles Purposo Outlet,	(Xind à S Long Girth (a) Material Location , bottom, ends anei rable, bolts us pressure <sup>1</sup> to be complet faive Outlets: ; (intet, Drain)	peet. No.)         (Min.          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H          H        H		T.S T.S Xnuckie Rediue  psi at e applicable Size Type	Allon R.T R.T Elliptical Ratia (c) F L(c) (c)L(c)	vancein.	Efficiency No. of Courses Hemispherical Radius  her fastening Orop W Charpy Charpy Charpy Charpy Charpy  charpy  charpy  Charpy  Charpy  Charpy  Charpy  Charpy  Charpy  Charpy  Charpy  Charpy  Charpy  Charpy  Charpy  Charpy  Charpy	in. Length_ T.S Flat Diameter  Describe or al eight Impact of dercement sterial	- 7. Side to Press. (Conv. or Cone. 
	Seams: Heads (a) Top, (b) Char If remov Design ; s below Safety V Nozzles Purposo Outer, inspects	(Xind à S Long Girth (a) Material Location , bottom, ends anei rable, bolts us pressure <sup>1</sup> ro be complet falve Outlets: : - (iniet, Drun) on Manholes	Pec. No.) (Min. H,_H, H, _		T.S Xnuckie Rediue  psi at size Size	Allon R.T R.T Elliptical Ratia (c) e R.T Local	vancein.	Efficiency No. of Courses Hemispherical Redius her fastening Orop W Charpy _oF at temp charpy  Resn tances M	in. Length_ 	_ 72 Side to Press. (Conv. or Cone. 
2. 3	Seams: Heads (a) Top, (b) Char If remov Design ; s below Safety V Nozzles Purposo Outer, inspects	(Xind à S Long Girth (a) Material Location , bottom, ends anei rable, bolts us pressure <sup>3</sup> to be complet falve Outlets: ; rinlet, Dran; Or Manholes (s: Handhole	ed for all ves Number Number Number Number Number		T.S T.S Xnuckie Rediue  psi at e applicable Size Type  ze ze	is. AllonR.TR.T Ellipticei Retie(c)(c)	vancein.	Efficiency No. of Courses Hemispherical Radius  her fastening Orop W Charpy _oF at temp  charpy  Resn temess M	in. Length_ in. Length_ Flat Diameter Diameter Describe or al lengaet_ lengaet_ of dorcement aterial	- 7. Side to Press. (Conv. or Cone. 

.

<sup>1</sup> If Postaroid Reat-Treated, <sup>2</sup> List other internal or epirronal p

with completene rempetations when applicable.

REPORT	NO.	P0059-	-009
--------	-----	--------	------

	Sheet 2 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' DA	TA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision	of the ASME Code Rules, Section III, Div. 1-137-037 2 5/21/03
	1813-037, SAT- 16 OF 46
L. (a) Manufactured by General Electric Compa	ny, Castle Hayne Rd., Wilmington, N.C.
	(Mails and addition of ut 1 considers structure
(b) Manufactured for General Electric Compa	iny, San Jose, Calliornia (NEBG) Idres of N Certificate Holder for completed sociest composesti
2. Identification-Certificate Holder's Serial No. of Part	
(a) Constructed According to Drawing No768E53	D. L. Peterson
(b) Description of Part Inspected Control	L Rod Drive, Model #7RDB144DG001
(c) Applicable ASME Code: Section III, Edition 1974	N207 , Addenda dake_W'75, Case No. 1361-2_Class1
· · · · · · · · · · · · · · · · · · ·	
· · · ·	· · · · · · · · · · · · · · · · · · ·
1. Cap 16689274P1	
(167A2343)	Code vield
SA182 - F316 3/8 thick x 1 1/16 OD	P50YP102
370 SHICK X 1 1710-00	
2. Indicator Pipe 166E9313P1	
SA312-TP316	
3/4 sch 40-seamless pipe	
0.113 wall thickness	
1.065 max. dia.	Reactor vessel
<b>6</b>	thimble
3. Plug 159A1176P1	
SA182-F304	
1/4 thick x 0.812 0D	
4. Flange 9190610P1 (719E474)	Code weld
SA182-F304	R50YP102
3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D	
2.875 ID	
5. Base 137C5311P1	
XM-19 ASHE SA479	
3.0 0D x .884 ID	
	VT-H-H-L
6. Ring Flange 11485122P2	
SA182-F304	L Code weld
1" thick x 5.0 0D x 1.75 ID	PSOYP102
	as (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
7. Cap Screw 117C4516P2	ANTER DOD DELVE
SA193-86	CONTROL ROD DRIVE DVG - 768E534
6 ea. 1/2 dia. on 4 1/8 bolt cir	cle ond o roccoor
0 01 - 17-1-0	9. Nut 137C5934P1
8. Plug 175A7961P1	XM-19 SA479
SA182-F304 0.38 thick x 1.307 dia.	1.30 thick x 2.62 dis.
and direct a rady life.	00159

					REPORT NO	. P0059-009
					Sheet 1	
FOR	IM N-2 NPT CERTI As re	FICATE HOLDERS' DA quired by the Provision	TA REPORT FOR of the ASME Code	NUCLEAR PART Rules, Section II	$\begin{array}{c} \textbf{I. Div. 1} \\	ANCES - 469 -037 469 -446
		al Electric Comp				
(b) Maaufac	mired forGener	al Electric Comp	any, San Jose	, California	(NEEG)	
. Ideotificatio	-Certificate Holder	's Serial No. of Part and	Idrons of H Contificate Ho 5154			
		Drewing No. 768E534				
		control Rod				
-		tion III, Edicion 1974			N207	
		for use with Rea (Brief description	actor. Hydro	statically t	ested at 1820	
*	• Total number	of sheets - 2				
_ <u></u>		•				
one to the rul "he applicable are Holder for icluded in the	les of construction Design Specification Appurtenances is re component Design	nade in this report are c of the ASME Code Section and Stress Report are n repossible for furnishing a Specification and Stress 0.1 CT NTT	on III. of the responsibility i separate Design S( Report.)	of the NPT Certification and Si	Icate Holder for par ress Report if the a	ts. An NPT Certif- pourtenance is no
ons to the rul "he applicable are Holder for cluded in the	les of construction Design Specification Appurtenances is re component Design	of the ASME Code Secti a and Stress Report are a sponsible for furnishing a	on III. of the responsibility i separate Design S( Report.)	of the NPT Certification and Si	Icate Holder for par ress Report if the a	ts. An NPT Certif- pourtenance is no
ons to the rul "he applicable are Holder for cluded in the	les of construction Design Specification Appurtenances is re- composent Design 7/7192 Authorizacion Expire	of the ASME Code Secti a and Stress Report are a spoosible for furnishing a Specification and Stress	on III. ot the responsibility separate Design S( Report.) D-WMD- artificana Holders , 1981	of the NPT Certification and St By	Icate Holder for per ress Report if the a <i>thru denumri</i> zacion No. <u>NPT S</u>	ts. An NPT Certif- pourtenance is no
one to the rai The applicable are Holder for ciuded in the securificate of a pessign infor	les of construction Design Specification appurtensaces is re- component Design 7/7 19 6 Anchocizacion Expire CERTIFI	of the ASME Code Section and Stress Report are n sponsible for furnishing a Specification and Stress B1_Signed	on III. ot the responsibility a separate Design Se Report.) D-WHD- artificana Holders 1981Certi FOR APPURTED	Br	Toute Holder for par ress Report & the a three densmini zacion No. <u>NPT 3</u> pplicable)	ts. An NPT Certif- ppurtensace is no 
besign infor 22A5556,	les of construction Design Specification appurtensaces is re- component Design 7/7 19 6 Anchocizacion Expire CERTIFI	of the ASME Code Section and Stress Report are n esponsible for furnishing a Specification and Stress B1_Signed	on III. ot the responsibility a separate Design Se Report.) D-WMD- artificana Holders 1981Certi FOR APPURTED	Br	Toute Holder for par ress Report & the a three densmini zacion No. <u>NPT 3</u> pplicable)	ts. An NPT Certif- ppurtensace is no 
me to the rai he applicable as Holder for cluded in the som	les of construction Design Specification appurtensaces is re- component Design; 7/7 19 8 Authorization Expire CERTIFI constion on file ac., , Rev. 2 reis report on file a , Eav. 2	of the ASME Code Section and Stress Report are n esponsible for furnishing a Specification and Stress B1_Signed	oe IIL of the responsibility a separate Design Se Report.) D-WMD- artificate Holders , 1981 Certi FOR APPURTED Castle Hayne n Jose, Calif	Br	Toute Holder for par ress Report & the a three densmini zacion No. <u>NPT 3</u> pplicable)	ts. An NPT Certif- ppurtensace is no 
Design info 22A5556, Scress analy Design spec	les of construction Design Specification appurtensaces is re- component Design; 7/7 19 8 Authorization Expire CERTIFI constion on file ac., , Rev. 2 reis report on file a , Eav. 2 rifications certified	of the ASME Code Section and Stress Report are a specification and Stress B1_Signed	oe IIL of the responsibility a separate Design Se Report.) D-WMD- artificate Holders , 1981 Certi FOR APPURTED Castle Hayne n Jose, Calif	Br	Icate Holder for par ress Report if the a thru denumi moder No. <u>NPT S</u> mplicable) agton. N.C.	ts. An NPT Certif- ppurtensace is no [-115]
mus to the rai he applicable at Holder for cluded in the som	les of construction Design Specification appurtensaces is re- component Design; 7/7 19 8 Authorization Expire CERTIFI constion on file ac., , Rev. 2 reis report on file a , Eav. 2 rifications certified	of the ASME Code Section and Stress Report are n spoosible for furnishing a Specification and Stress B1_Signed	oe IIL of the responsibility a separate Design Se Report.) D-WMD- artificate Holders , 1981 Certi FOR APPURTED Castle Hayne n Jose, Calif	Prof. Eng. S	icate Holder for par ress Report if the a thrulenumi zation No. <u>NPT S</u> applicable) agton. N.C. care <u>Calif</u> Rep	ts. An NPT Certif- ppurtensace is no [-115]
nus to the rai he applicable as Holder for cluded in the ertificate of A Design infor 22A5556, Stress easily 22A4912, Design spec Stress easily 1, the up and/or the S	les of construction Design Specification appurtenasces is re- component Design 7/7 19 2 Anthocizacion Expire CERTIFI mation on file ac- , Rev. 2 reis report on file a , Rav. 2 reis report certified vais report certified	of the ASME Code Section and Stress Report are a specification and Stress B1_Signed	oe HL of the responsibility a separate Design Se Report.) D-WMD- artificate Holder: , 1981 Certi FOR APPURTER Castle Hayne n Jose, Calif E E OF SHOP INSE and employed by	Prof. Eng. S Prof. Eng. S PECTION Board of Boiler Departmant c	Acate Holder for par ress Report if the a thrulenumi moder of the a mod Pressure Vess of Labor	ts. An NPT Certif- ppurtensace is no 
I, che un and beiler, ti be applicable applicable in the applicable in the sector for ciuded in the sec- crificane of A Design infor 22A5556, Scress analy 22A4912, Design spec Scress analy 22A4912, Design spec Scress analy 22A4912, Design spec Scress analy 22A4912, Design spec Scress analy 22A4912, Design spec Scress analy 22A4912, Design spec Scress analy Scress ana	Its of construction Design Specification appurcanances is re- component Design <u>7/7</u> 19 Anchocizacion Expire CERTIFICATION CERTIFICATION	of the ASME Code Section and Stress Report are a specification and Stress B1_Signed	on III. of the responsibility a separate Design Se Report.) D-WMD- artificate Holder: <u>1981</u> Certi FOR APPURTER <u>Castle Hayne</u> <u>Castle Hayne</u> <u>Castl</u>	Prof. Eng. S PECTION Board of Boiler Department of a prog 19 8] and state with the ASME Correction Prof. Eng. S PECTION Board of Boiler Department of a prog 19 8] and state with the ASME Correction Progetter the	Acate Holder for par ress Report if the a thrulenumi antion No. <u>NPT S</u> and Pressure Vess of Labor ssure vessel desc a that to the best of a le Section III. expressed or impli- inspector sor a	ts. An NPT Certif- ppurtensaces is no 
Design infor 22A5556 Stress analy 22A4912, Design spec Stress analy 22A4912, Design spec Stress analy 22A4912, Design spec Stress analy 22A4912, Design spec Stress analy 22A4912, Design spec Stress analy and/or the S of Partial Data and belief, th By signi ing the poi shall be lis	Its of construction Design Specification appurcanances is re- component Design <u>7/7</u> 19 Anchocizacion Expire CERTIFICATION CERTIFICATION	of the ASME Code Secti a and Stress Report are a spoosible for furnishing a Specification and Stress B1_Signed	on III. of the responsibility a separate Design Se Report.) D-WMD- artificate Holder: <u>1981</u> Certi FOR APPURTER <u>Castle Hayne</u> <u>Castle Hayne</u> <u>Castl</u>	Prof. Eng. S Prof. Eng. S Prof. Eng. S Prof. Eng. S Prof. Eng. S PECTION Board of Boiler Department c he part of a prof. 19 8] and stat with the ASME Cockets re, neither the re or a loss of any	Acate Holder for par ress Report if the a thrulenumi and Pressure Vess of Labor source vessel description for the section III. expressed or impli- inspector for hi	ts. An NPT Certif- ppurtensaces is no [-115]

\_\_\_\_

(10/77)

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

**-** ·

.. •

----

4.	Shell:	Material	T.S (Min	N. Ti L of Range S	omiaal hickness lpecified)	Corre in. Alloy	wance	Dia ft	_in. Length_	ft, i
5.	Seams	Long	н	.т.'		R.T		Efficiency	······	. 7
								No. of Course		
6.	Heads:	(a) Material _			T.S		(b) Materia	ы	T.S	
		Location , bottom, ends)			Radius	Elliptical Ratio	Apez Angle		71at Diamotor	Side to Press (Coav. or Conc
	lf r <del>em</del> o	vable, bolta us	ed(Mate	risi, Spec. N	le., T.S., Sla	e, Number)	Other fast	ening(D	escribe or sta	ch skotch)
7.	Jacket	Closure:		weld, bær, e	te. If ber give	e dimensions.	, if boited, descri	be or sketch)	····.	
		•			-			Drog	Weight	
8.	Design	pressure <sup>2</sup>	1250		psi 14	۲ <u></u>	575			ft=  ft=
		10 to be comp	irv. Material	· · · · · · · · · · · · · · · · · · ·	Di		Thic	in.	Attachment	Felded, Balted)
10.	Tuber	e toactaj Material	s. Material .	0.0.	Uu is. Thi		inches	Number	Tvm	F
										(Str. or U)
icen	ns 11–14	i incl. to be co	mpleted for i	aaer cham	bers of jac	keted vess	els, or channel	is of hest exch	sagers.	
11.	Sheil:		T.S	Ne	lanimo	Corre	osion			
		(Xind & Sp	ee. No.) (Min.			in. Allo	wance	Di 2 fc	_in. Length_	fe in
12.	Seamsi	(Xind & Sp Long	we. No.) (Min.	of Renge Sp	ecilied)		wancein.		-	
		Long	юс. No.) (Міл. Н.	ol Renge Sp .T. <sup>1</sup>	90c:/(ied)	_ R.T	WEACEin.	Efficiency	······	_5
		Long	юс. No.) (Міл. Н.	ol Renge Sp .T. <sup>1</sup>	90c:/(ied)	_ R.T	WEACEin.	Efficiency	······	_5
		Long	H	of Renge Sp .T. <sup>1</sup> .T. <sup>1</sup> Crown	. T.S Knuckie	_ R.T _ R.T Elliptical	WEACEin.	Efficiency	T.S Flat	_5
	Heads (a) Top	Long Girth (a) Material Location b, bottom, ends	102. No.) (Min, Hi Hi Thickness	of Renge Sp .T. <sup>1</sup> .T. <sup>3</sup> Crown Rodius	T.S Xnuckie Zediue	_ R.T _ R.T Ellipticai Retio	vancein. ib) Material Conical Apex Angle	Efficiency No. of Courses Hemispherical Redius	Flat Diameter	_ 75 Side to Press. (Canv. or Conc.
	Heads (a) Top	Long Girth (a) Material Location , bottom, enda	102. No.) (Min, Hi Hi Thickness	of Renge Sp .T. <sup>1</sup> .T. <sup>3</sup> Crown Rodius	T.S Xnuckie Zediue	_ R.T _ R.T Ellipticai Retio	vancein. ib) Material Conical Apex Angle	Efficiency No. of Courses Hemispherical Redius	Flat Diameter	_ 75 Side to Press. (Canv. or Conc.
	Heads (a) Top	Long Girth (a) Material Location b, bottom, ends	102. No.) (Min, Hi Hi Thickness	of Renge Sp .T. <sup>1</sup> .T. <sup>3</sup> Crown Rodius	T.S Xnuckie Zediue	_ R.T _ R.T Ellipticai Retio	vancein. ib) Material Conical Apex Angle	Efficiency No. of Courses Hemispherical Redius her fascening Drop	T.S. Flat Diameter Describe st a Teight	- 5 Side to Press. (Conv. or Conc.
13.	Heads (a) Top (b) Cha If remov	Long Girth (a) Material Location b, bottom, ends	102. No.) (Min, Hi Hi Thickness	of Renge Sp .T. <sup>1</sup> .T. <sup>3</sup> Crown Rodius	T.S Xnuckie Zediue	_ R.T _ R.T Elliptical Ratio	vancein. ib) Material Conical Apex Angle	Efficiency No. of Courses Hemispherical Redius her fascening Drop Charp	Flat Diameter	- 75 Side to Prose. (Conv. or Conc. 
13.	Hends (a) Top (5) Cha 1f remov Design	Long Girth (a) Material Location b, bottom, ends anei vable, bolts us pressure <sup>2</sup>		of Ronge Sp .T. <sup>1</sup> T. <sup>1</sup> Crown Rodius (5		_ R.T _ R.T Elliptical Retio (c)	vancein. ib) Material Conical Apex Angle	Efficiency No. of Courses Hemispherical Redius her fascening Drop Charp	T.S. Flat Diameter Describe at a Teight y Impact	- 75 Side to Prose. (Conv. or Conc. 
13.	Hends (a) Top (5) Cha 1f remov Design	Long Girth (a) Material (a) Material (a) Material (a) Material (a) Material (a) Material (c) Mat	H. Thickness 	of Ronge Sp .T. <sup>1</sup> T. <sup>1</sup> Crown Rodius (5		_ R.T _ R.T Elliptical Retio (c)	vancein. ib) Material Conical Apex Angle	Efficiency No. of Courses Hemispherical Redius her fascening Drop Charp	T.S. Flat Diameter Describe at a Teight y Impact	- 75 Side to Prose. (Conv. or Conc. 
13. 14. 15.	Heads (a) Top (b) Cha 1f remov Design na Selow Safety 1	Long Girch (a) Material Location b, bottom, ends anei vable, bolts us pressure <sup>2</sup> to be completed Valve Outlets:	<pre>ive. No.) (Min.  Ho  Ho Thecknoos  ived (a) ed for ail ves</pre>	of Renge Sp .T. <sup>4</sup> .T. <sup>1</sup> Crown Rodius (5	- T.S Xnuckle Rediue  )) psi at e applicabl	_ R.T _ R.T Elliprical Recio (c) ic.	vancein.	Efficiency No. of Courses Hemispherical Redius her fascening Drop Charp	T.S. Flat Diameter Describe at a Teight y Impact	- 75 Side to Prose. (Conv. or Conc. 
13. 14. 15.	Heads (a) Top (b) Cha 1f remov Design a Selow Safety <sup>1</sup> Nozzle: Purpes	Long Girth (a) Material Location b, bottom, ends anei vable, bolts us pressure <sup>2</sup> : o be complete Valve Outlets: s: e -Inlet,	ee. No.) (Min. H, _H,	of Renge Sp .T. <sup>4</sup> .T. <sup>1</sup> Crown Rodius (b	- T.S Xnuckle Rediue  )) p3i at e applicabl Size	_ R.T _ R.T Elliptical Retio (c) ic	vancein.	Efficiency No. of Courses Hemispherical Radius her fascening Drop Charp       	T.S. Flat Diameter Describe at a Teight y Impact	
13. 14. 15.	Heads (a) Top (b) Cha 1f remov Design a Selow Safety <sup>1</sup> Nozzle: Purpes	Long Girth (a) Material Location b, bottom, ends anei vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets: s: e finiet,	ee. No.) (Min. Hi Thicknoos ced (a) Number	of Renge Sp .T. <sup>1</sup> .T. <sup>1</sup> Crown Rodius (5 	- T.S Xnuckle Rediue  )) p3i at e applicabl Size	_ R.T _ R.T Elliptical Retio (c) te. 		Efficiency No. of Courses Hemispherical Radius her fascening Drop Charp       	T.S Flat Diameter  Describe at a Weight py Impact ap. of	_ 75 Side to Press. (Conv. or Conc 
13. 14. iten	Heads (a) Top (b) Cha 1f remov Design a Selow Safety <sup>1</sup> Nozzle: Purpes	Long Girth (a) Material Location b, bottom, ends anei vable, bolts us pressure <sup>2</sup> : o be complete Valve Outlets: s: e -Inlet,	ee. No.) (Min. H, _H,	of Renge Sp .T. <sup>1</sup> .T. <sup>1</sup> Crown Rodius (5 	<pre>&gt;&gt;cilied)T.S Xnuckle Rediue &gt;&gt;&gt;psi ac e applicabl Size </pre>	_ R.T _ R.T Elliptical Retio (c) te. 	vancein.	Efficiency No. of Courses Hemispherical Radius her fascening Drop Charp       	T.S Flat Diameter  Describe at a Weight py Impact ap. of	_ 75 Side to Press. (Conv. or Conc 
13.	Heads (a) Top (b) Cha (c) Cha	Long Girth (a) Material Location b, bottom, ends anei vable, bolts us pressure <sup>2</sup> ressure <sup>2</sup> vable, bolts us pressure <sup>2</sup> vable, bolts us pressure <sup>2</sup> vable, bolts us pressure <sup>2</sup> co be completed value Outlets: s: e (inlet, press) conducted s:	iver. No.)       (Min.         Hi       Hi         Thicknoos       Hi         Thicknoos       Hi         ied (a)       Hi         ied (a)       Hi         Number       Hi         Number       Hi         Number       Hi         Number       Hi         No.       Hi	of Renge Sp .T. <sup>4</sup> .T. <sup>1</sup> Crown Rodius (5) isets wher Dis. or Size  Size Size	- T.S Xnuckle Rsdius  p) p e applicabl Size s z ze	_ R.T _ R.T Eiliprical Retio (c) ie te L.sci	vancein.	Efficiency No. of Courses Hemispherical Radius her fascening Charp      charp    Re cunese	T.S. Flat Diameter Describe or a Veight y Impact ap. of inforcement Material	
13. Ita.	Heads (a) Top (b) Cha (c) Cha	Long Girth (a) Material Location b, bottom, ends anei vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets: s: e (Iniet, Dreun) tion Manholes. gs: Handhole	iver. No.)       (Min.        H        H         Thicknees        H         ied (a)        H         Number	of Renge Sp .T. <sup>1</sup> .T. <sup>1</sup> Crown Redius (5) 	- T.S Xnuckie Rodiuo  psi at e applicabl Size Size   2e ze	_ R.T _ R.T Elliptical Ratio (c)  tor tor tor tor tor	wance	Efficiency No. of Courses Hemispherical Radius her fascening Charp      charp    Re cunese	T.S. Flat Diameter Describe or a Veight y Impact ap. of inforcement Material	
13. Ita.	Heads (a) Top (b) Cha 1f remov Design as below Safety Vozzle: Purpes Outlet, Inspect Openia	Long Girth (a) Material Location b, bottom, ends anei vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets: s: e (Iniet, Dreun) tion Manholes. gs: Handhole	iver. No.)       (Min.        H      H        H      H        H      H        H      H        H      H        H      H        H      H        H      H        H      H        H      H        H      H	of Renge Sp .T. <sup>4</sup> .T. <sup>1</sup> Crown Rodius (5 	- T.S Xnuckie Rodiuo  psi at e applicabl Size Size   2e ze	_ R.T _ R.T Elliprical Retio (c) (c) (c) (c) (c) Loci	wance	Efficiency No. of Courses Hemispherical Radius her fascening Drop Charp     cuness  Re	T.S. Flat Diameter Describe or a Veight y Impact ap. of inforcement Varenal	_ 75 Side to Prose. (Conv. or Cone

The open intervel of a stand beaches and contraction and the spire spire

			-	REPORT NO. POO!	59-009
•,=-				Sheet 2 of 2	
	FORM N-2 NPT CERTIFICATE HOLD	EDCI DATA DEDORT E	D MICT FAD DAD	ANTI APPEIRTENANCES	107.
				1. Div. 1/1813-037	2
	As required by me is		-	218 of 46	
				110 07 90	
L. (a) M	anufactured by General Electric	: Company, Castle	Hayne Rd., Wi	1mington, N.C.	
		(Name and address)	of NPT Certificate Holder	•	
(b) M	anufactured for General Electric	ame and address of N Certificate	Be, Calliornia	(NEBG)	·
) Ident	ification-Certificate Holder's Serial No. of P			No	
(a) (	Constructed According to Drawing No	768E534G001 Draw	ing Prepared by	D. L. Peterson	
	Description of Part Inspected(				•
		•		N207	·
(c) /	Applicable ASME Code: Section III, Edicion	1974. Addenda da		No. 1361-2 Class 1	
	· · · · · ·	·	·	·	<b>.</b> .
	•				
٦	Cap 166B9274P1	•		n	
."	(167A2343)				
	SA182 - F316		Code we	Id-	11
	3/8 thick x 1 1/16 0D		P50YP10		
			@		
2.			<u> </u>	$\sim$ $\mid$ $\mid$	
	SA312-TP316	•	· · · · · · · ·		
	3/4 sch 40-seamless pipe 0.113 wall thickness				
	1.065 max. dia.				
	•		Reactor ves		
3.	Plug 159A1176P1		CITINDIE	── <b>ヽ</b> ¦	
	SA182-F304				
	1/4 thick x 0.812 OD				
		•	_ <b>3</b>		
4.	Flange 919D610P1 (719E474)		Code weld		$\langle \rangle \rangle$
	SA182-F304 3.37 thick x 9 5/8 0D	•	R50YP102	to//of	$\langle \rangle \rangle$
	neck 1 1/16 thick x 5.0 0D	•	<u>م</u>		
•	. 2.875 ID		( <b>4</b> )_		NY I
° <b>5.</b>	Base 137C5311P1				
•	XM-19 ASME SA479	<b></b>			T
·	3.0 OD x .884 ID	· •	·.	ONTH IN	1
~	8/ 81 88 19 19 19 19				4
6.	Ring Flange 114B5122P2 SA182-F304	-			
	$1^{"}$ thick x 5.0 00 x 1.75 I	D .		L-Code weld P50YP102	0
		-		TUVITIVE	
7.	Cap Screw 117C4516P2			· · · · · · · · · · · · · · · · · · ·	
	SA193-86		· ·	CONTROL ROD DRI	IVE .
	6 ea. 1/2 dia. on 4 1/8 bo	lt circle		DHG - 768E534	
_			9. Nut 1:	27/503/ P1	
8.		-	. XM-19		
	SA182-F304 0.38 thick x 1.307 dia.	•		thick x 2.62 dia.	<b>በቤቶ</b> ቶሶ
	tio thick A 1.507 tig.	•		•	00146

•

÷

	REPORT NO. P0059-009
	Sheet 1 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REP As required by the Provision of the AS	ORT FOR NUCLEAR PART AND APPURTENANCES SME Code Rules, Section III, Div. 1/1813-037 19 of 46
(a) Manufactured by General Klactric Company, C	astle Hayne Rd., Wilmington, N.C.
(b) Henefactured for General Electric Company, S	an Jose, California (NEBG)
Unite and address of No. of Part	Cartificate Neider for completed society compensations 13Net*1 Bds No
(a) Constructed According to Drawing No. 768E534G001	
(b) Description of Part Laspected Control Rod Drive	
c) Applicable ASME Coder Section III, Edicion Add	N2U/ 1361-2 1
Remarker Standard part for use with Reactor.	
* Total number of sheets - 2	· · · · · · · · · · · · · · · · · · ·
is to the relev of construction of the ASME Code Section III. explicable Design Specification and Stress Report are not the re- Holder for appurtanences is responsible for furnishing a separate alled in the component Design Specification and Stress Report.)	ed this vessel part or apparesance as defined in the Code con- sponsibility of the NPT Certificate Holder for parts. An NPT Certif- t Design Specification and Stress Report if the appartments is not Dr. O. Moudenmui
is to the relate of construction of the ASME Code Section IIL applicable Design Specification and Stress Report are not the re- Holder for appartmenent is responsible for furtishing a separate aded in the component Design Specification and Stress Report.) <u>7/7</u> 1981_Signed <u>GE</u> , NEPD-RED- Ger Cause H ifficate of Authorization Expires <u>September 15, 1981</u>	ponsibility of the NPT Certificate Holder for parts, An NPT Certif- Design Specification and Stress Report if the appurtumence is not Dr. Utoudenmu: object: Certificate of Authorization No. NPT N-1151
to the relate of construction of the ASME Code Section IIL applicable Design Specification and Stress Report are not the re- Holder for appartmenent la responsible for farmining a separate aded in the component Design Specification and Stress Report.) <u>7/7</u> 1981_Signed <u>GE</u> , NEPD-RED- Ger Cause H ificate of Authorization Expires <u>September 15, 1981</u> CERTIFICATION OF DESIGN FOR AI	PPURTENANCE (when applicable)
to the relate of construction of the ASME Code Section IIL applicable Densit Specification and Stress Report are not the re- Holder for appartmenetics in responsible for farmining a separate add in the component Design Specification and Stress Report.) <u>7/7</u> 1981SignedGE, NEPD-WeD- Gerr Cattlens H ifficate of Asthorization ExpiresSeptember-15, 1981 CERTIFICATION OF DESIGN FOR AN Heaign information on file srGE, NEPD-WeD-OA, CastI	PPURTENANCE (when applicable)
a to the relate of construction of the ASME Code Section IIL applicable Densits Specification and Stress Report are not the re- Holder for appurtamences in responsible for fartisiting a supersta- med in the component Design Specification and Stress Report.) <u>7/7</u> 19 81 Signed <u>GE</u> , NEPD-WED- dert Cetticas is ificate of Anthonization Expires <u>September</u> 15, 1981 CERTIFICATION OF DESIGN FOR AN Design information on file at <u>GE</u> , NEPD-WED-OA, CastI 22A5556, Rev. 2 GES, NEPD, San Jose	PPURTENANCE (when applicable) e Hayne Rd., WfImfington, N.C.
to the relate of construction of the ASME Code Section IIL applicable Densit Specification and Stress Report are not the re- Holder for appurtamences in responsible for furtishing a supersta- med in the component Design Specification and Stress Report.) <u>7/7</u> 19 81 Signed <u>GE</u> , NEPD-WED- Gert Cetticas is ificate of Anthonization Expires <u>September</u> 15, 1981 CERTIFICATION OF DESIGN FOR AI Design information on file <u>Expires</u> <u>GE</u> , NEPD-WED- CERTIFICATION OF DESIGN FOR AI Design information on file <u>Expires</u> <u>GE</u> , NEPD-WED-OA, CastI 22A5556, Rev. 2 GERSS analysis report on file at <u>GE</u> , NEPD, San Jose 22A4912, Rev. 2	PPURTENANCE (when applicable) e Hayne Rd., WfImfington, N.C.
a to the relevant construction of the ASME Code Section III. applicable Design Specification and Stress Report are not the re- Holder for appurtamences in responsible for fartisting a supersta- med in the component Design Specification and Stress Report.) <u>7/7</u> 1981_SignedGE, NEPD-WED- Gert Cetticas is ificate of Asthonization ExpiresSeptember 15, 1981 CERTIFICATION OF DESIGN FOR AI Design information on file srGE, NEPD-WED-OA, CastI 22A5556, Rav. 2 GERS analysis report on file srGE, NEPD, San Jose 22A4912, Rav. 2 Hesign specifications certified byB. N. Sridhar	PPURTENANCE (wkcs explicable) e Hayne Rd., Wflmington, N.C.
a to the relevant construction of the ASME Code Section III. applicable Design Specification and Stress Report are not the re- Holder for appurtamences in responsible for fartisting a supersta- med in the component Design Specification and Stress Report.) <u>7/7</u> 1981_SignedGE, NEPD-WED- Gert Cetticas is ificate of Asthonization ExpiresSeptember 15, 1981 CERTIFICATION OF DESIGN FOR AI Design information on file srGE, NEPD-WED-OA, CastI 22A5556, Rav. 2 GERS analysis report on file srGE, NEPD, San Jose 22A4912, Rav. 2 Hesign specifications certified byB. N. Sridhar	PPURTENANCE (where applicable) e Hayne Rd., Wilmington, N.C. prof. Eng. Scare Calif_Reg. No.18345 Prof. Eng. Scare Calif_Reg. No.18345
s to the releve of construction of the ASME Code Section III. applicable Design Specification and Stress Report are not the re- aded in the component Design Specification and Stress Report.) <u>7/7</u>	PPURTENANCE (where applicable) e Hayne Rd., Wilmington, N.C. prof. Eng. Scare Calif. Reg. No.18345 Prof. Eng. Scare Calif. Reg. No.18345 HOP INSPECTION e Nacional Board of Boiler and Pressure Vessel Inspectors
s to the releve of construction of the ASME Code Section III. applicable Design Specification and Stress Report are not the res- and in the component Design Specification and Stress Report.) <u>7/7</u>	Processibility of the NPT Certificate Holder for parts. An NPT Certific T. Desige Specification and Stress Report if the appurtumence is not Dr. Utfordenami Dr. NPT N-1151 Certificates of Authorization No. PPURTENANCE (where applicable) e Hayne Rd., Wf1mington, N.C. calif. Prof. Eng. Scare Calif Reg. No.18345 Prof. Eng. Scare Calif Reg. No.18345 Prof. Eng. Scare Calif Reg. No.18345 HOP INSPECTION e National Board of Boiler and Pressure Vessel Inspectors ployed by Department of Labor aspected the part of a paysure vessel described in this 7/7 is 8] and state that to the best of my knowledge contance with the ASME Code Section III. ployer makes any warmary, expressed or implied, concern- withermore, a either the Inspector for his employer
is to the releve of construction of the ASME Code Section IIL applicable Design Specification and Stress Report are not the res- and in the component Design Specification and Stress Report.) <u>7/7</u> 19 81 Signed <u>GE</u> , NEPD-WED- Ger Cetticas H ifficace of Asthorization Expires <u>September</u> 15, 1981 CERTIFICATION OF DESIGN FOR AL Design information on file st_ <u>GE</u> , NEPD-WED-GA, CastI 22A5556, Rav. 2 Gress analysis report on file st_ <u>GE</u> , NEPD, Sant Jose 22A4912, Rav. 2 Design specifications certified by <u>B. N. Sridhar</u> GERTIFICATE OF S L, the undersigned, holding a velid commission issued by the od/or the Scare of North Carolina and em state of North Carolina have is besign the certificate Holder has constructed this part in ac By signing this certificate Holder has constructed this part in ac By signing this certificate Holder has constructed this part in ac By signing this certificate Holder has constructed this part in ac By signing this certificate Holder has constructed this part in ac By signing this certificate Holder has constructed this part in ac By signing this certificate Holder has constructed this part in ac By signing this certificate Holder has constructed this part in ac By signing this certificate to any personal injury or proper hall be liable in any manner for any personal injury or proper	Processibility of the NPT Certificate Holder for parts. An NPT Certification and Stress Report if the appartmenance is not  Dr

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

\_

\_\_\_\_

. .

				N	oninal	Corre	usion			
•	Shefit	Macerial		L, of Range S	hickness leectled	ia. Allo	raceiq.	Dia ft	.in. Length_	ft i
5.	Seame							Efficiency		
		Girch	H	.T.L		_ R.T		No. of Courses		
i.,	Hendus							4		
		Location , bottom, ands)		Radius	Radios		Apaz Angle	Konisphericul Zadino	Flat Diameter	
•	If remo	vable, bolts us	ed	int for a			Other fast	raing		
			(Mater	<b>1166-3998-</b> 2	(eng T. J., 515	0, //umbur7	· • • • •	(De	ecribe or attac	cie sicesch)
•	Jacket	Closuret		wold, bary a	te. If bargiv	-	il belted, dener	be or stateb	**************************************	
			•		-			Drop 1		
Ł	Denies	presours <sup>3</sup>	1250			B	575	Otarpj	p impace	fo-
	e 9 and	10 to be compl	leted for tube	. sections						
-		<u> </u>								
-	Tube S	heetse Stations	ry. Material.	(Wind b 4	Di	A	Thic	knessin. A	ttachment	
		Floeting	Macerial		D[	•	Thic	inersin. A	attachment	*
•		Macerta&		_ O.D	ia, Thi	icknes a		. Number	Тур	(Sin. of U).
			<del></del>					e of heat excha		
•	Sheilt	(Xint & 5p	T.S	N. T	omiaat hickness_ posidedy	_ Corge	aion Faice	Diaft	in. Lengch.	itoi
	Shell	Macerial		T. <sup>4</sup>	omiant hickness petilod?	Correct	neion FARCEiR.	Diaft	in. Length.	itoi
-	Sheilt Seamst	Kinta 50			oniaet hickness_ petfled?	Corps Alfor	eion 1967in	Dia fr.	in. Length.	itoi
-	Sheilt Seamst	Kinta 50			oniaet hickness_ petfled?	Corps Alfor	eion 1967in	Diaft	in. Length.	îti %
-	Sheilt Seamst	(a) Macerial			T.S.	Correc Allow R. T R. T	(b)-Material Content	Dia ferma	in. Length.	<sup>1</sup> Side to Prese (Court, or Case
-	Shell: Seams: Heads (a) Top	(Xinta So (Xinta So Long	Theinece		T.S. Kourkie Redive	CorrecAllow	(b)-Material Content Aper Angle	Dia ferma	in. Length. 	
4	Shell: Srans: Heads (a) Top (b) Chu	(Xinta So (Xinta So Long: (a) Macerial Location- bottom, ende- met	T.S		T.S Kouckie Redited	R.T Elliptical Recta	(b)-Macerial Content Aper Angle	Diaft Efficiency No. of Courses Homospherical Radius	.in. Length. T.S Plat Dissutor	
4	Shell: Srans: Heads (a) Top (b) Chu	(Xinta So (Xinta So Long	T.S		T.S Kouckie Redited	CorrecAllow	(b)-Macerial Content Aper Angle	Diaft Efficiency No. of Courses Homophorizat Radius her fastening		
-	Shell: Srans: Heads (a) Top (b) Chu	(Xinta So (Xinta So Long: (a) Macerial Location- bottom, ende- met	T.S		T.S Kouckie Redited	R.T Elliptical Recta	(b)-Macerial Content Aper Angle	Disfr Efficiency No. of Courses Homophorizat Radius her fascening Drog V	in. Length. T.S Plat Oleanster  (Describe or a feight	
	Shell: Seams: Heads- (a) Top (b) Chu If remov	(Xinta So (Xinta So Long: (a) Macerial Location- bottom, ende- met	Thickness		T.S Kouckie Redited	CorrecAllow R_T	(b)-Macerial Content Aper Angle	Disfr Efficiency No. of Courses Homophorizat Radius her fascening Drog T Charpy	in. Length.	
	Shell: Semme Heads- (a) Top (b) Chu If remot Design	(Xinta So (Xinta So Long	Thicknooe		T.S Kountie Redue	Correct Allow R_T R_T Elliptical Retio.	(b)-Material Content Aper Angle	Disfr Efficiency No. of Courses Homophorizat Radius her fascening Drog T Charpy	in. Length.	
	Shell: Semme Heads- (a) Top (b) Chu If remot Design	Macerial (Xinda Sp Long Girds (a) Macerial (a) Macerial (a) Macerial (a) Macerial (a) Macerial (a) Macerial (a) Macerial (b) Macerial	Thicknooe		T.S Kountie Redue	Correct Allow R_T R_T Elliptical Retio.	(b)-Material Content Aper Angle	Disfr Efficiency No. of Courses Homophorizat Radius her fascening Drog T Charpy	in. Length.	
	Shell: Semme Heads (a) Top (b) Chu If remov Design Safery	Vacerial (Xinta Se Long: (a) Macerial (a) Macerial Location , bottom, ender maet vable, bolts as pressure <sup>2</sup> to be complete Valve Outlets:	Theirson	- No T - of Range Sy - T-1 - T-1 - Crown- Rodine- - (1 - (1)	T.S Enuction Radius	Correct Allow R. T R. T Elliptical Recto. (c) [e.	(b)-Maceria Content Aper Angle	Disfr Efficiency No. of Courses Homophorizat Radius her fascening Drog T Charpy	in. Length.	
	Shell: Semme Heads (a) Top (b) Chu If remov Design Safery Nozzle: Purpos	Macerial (Xinda Se Long: Girds (a) Macerial Location , bottom, ende maet vable, bolts as pressure <sup>2</sup> to be complete Valve Outlets: zz + (Iniot,	Theinoos	- No T - of Range Sy - T-1 - T-1 - Crown- Rodine- - (1 - (1)	T.S Enuction Radius	Correct Allow R. T R. T R. T Elliptical Recto. (c) t le L	ocation	Dia france Efficiency No. of Courses Homosphorical Radius her fascenia g Drop T Charpy 3F at term	in. Length.	
	Shell: Semme Heads (a) Top (b) Chu If remov Design Safery Nozzle: Purpos	Macerial (Xinda Se Long: Girds (a) Macerial Location , bottom, ender maet vable, bolts as pressure <sup>2</sup> to be complete Valve Outlets: zz e (lalot,	Theisson ed (a) Number	- N. TI TI TI TI TI Crown Resilue (1 Usels wher Dia. or Siz	T.S. T.S. T.S. Koustie Radius  pri M sppliczbi Size Typ	Correct Allow R.T R.T Elliptical Recio. (c) I.e. Le. Le. Le. Le. Le. Le.	ocstion	Dia france Efficiency Nos of Courses Homosphorical Radius her fasceniag Drop T Charpy 3F st term chares M	in. Length.	
	Shell: Semme (a) Top (b) Chu If remov Design Safety Nozzle: Purper Outer,	Macerial (Xind a Se Long: Girds (a) Macerial Locations , boctom, ender anet vable, bolts as pressure <sup>3</sup> to be complete Valve Outlets: si • (iniet, , Drain) 7	Theinson		T.So T.So Koustie Redue  >> pri M * spplicabl Size	Correct Allow R.T R.T Elliptical Recio. (c) Ic. Ic.	ocracione	Dia france Efficiency Nos of Courses Homosphoriest Radius her fastening Drop T Charpy _3F at term  charse	in. Length.	itoi
	Shell: Semme (a) Top (b) Chu If remot Design Safery Nozzle: Pupper Outler, Laspect	Macerial (Xinth 54 Long Girds (a) Macerial Location bottom, ender most vable, bolts as pressure <sup>3</sup> to be complete Valve Outlets: zz • (Inlet, . Druint) 2 	Theinson		T.So T.So T.So Toso Koustie Radius D) pzi M e spplicabl Size Typ	Correct Allow R.T R.T Ettlipticesi Recio (c) t le. Locr	ocstice	Diaft Efficiency No. of Courses Homoshorical Radius her fastening Drop T       	in. Length.	itoii
	Shell: Semme (a) Top (b) Chu If remot Design Safery Nozzle: Pupper Outler, Laspect	Macerial (Xind a Se Long: Girds (a) Macerial Location , bottom, ender anet vable, boits as pressure <sup>2</sup> to be complete Vaive Outlets: zz • (Inlot, , Druint z 	Theimore.			Correct Allow R.T R.T Elliptical Recio. (c) ic. (c) le.  le.  Loci	ocstice	Dia france franc	in. Length.	itoi

-----

\_\_\_\_\_

1 . . . . . . . . .

• .

\_\_\_\_

<sup>1</sup> If Pearweid Heat-Treated. <sup>2</sup> List other internul or external previour with coincident temperature when applicable.

			K.	PORT NO. PUUS	9~009
•••	•		Sheet	2 of 2	
n server en la serv La server en la serve	•	•			
•	FORM N-2 NPT CERTIFICATE HOLI		-		
	As required by the I	rovision of the ASME Code Ru	ules, Section III, Div.	1813-037 /	. •
			2	20 of 467	
	aufscrured by General Electri	c Company, Castle Hay	ne Rd., Wilmingto	n, N.C.	
• •		(Name and address of NPT	Certificate Holder	•	
(b) Ma	sufactured for General Electri	company, San Jose,	California (NEBG)		
		Ame and address of N Certificate Holdes A2213	• • • • • • • • • • • • • • • • • • •	<b>30</b>	
, identif	ication-Certificate Holder's Serial No. of I		Nar'l Bd. No		
(a) Ci	constructed According to Drawing No	768E534G001Drawing P	repared by	Peterson	
(b) De	escription of Part Inspected	Control Rod Drive, Mo	del #7RDB144DG001		-
		1074 1	N20	)7	
(c) A	pplicable ASME Code: Section III, Editio	Addends date	Case No. 130	1-2_Class1_	
	• • •			••	
	•				
٦	Cap 166B9274P1	•	· ·		
.*•	(167A2343)		$\mathbb{V}^{-}$		
	SA182 - F316		Code weld		
	3/8 thick x 1 1/16 0D		P.50YP102		
			•		1
•					1
Ζ.	Indicator Pipe 16689313P1	•			
	SA312-TP316				1
	3/4 sch 40-seamless pipe	-			•
	0.113 wall thickness	4	. 1		1
		· · ·	5 1		1
	1.065 max. dia.	•	Reactor vessel		۰ ۱
	•	•	thimble		1
2	Plug 159A1176P1		witting		1
4.					1
•	SA182-F304		ا ناہے ہے		L
	1/4 thick x 0.812 OD				1
	•		3-		
-				7       F	777
4.	Flange 919D610P1 (719E474)		de weld	コ !!! !!i ト	$\langle \rangle \rangle$
	.SA182-F304		50YP102-	7 11 IL C	<u>///</u> 1
	3.37 thick x 9 5/8 0D		BTR		127
	neck 1 1/16 thick x 5.0 00			ANN INAL	
•	2.875 ID		<b>⊕</b> ℤ\∖	ANNI INAN	$\checkmark$
•				NKELIV	J
			(5)	ンヨニア	J
۰ <b>S</b> .	Base 137C5311P1				Ľ.
	XM-19 ASME SA479		ଞ 🗅		7
		• •• •• • • • •		╸ᡒ᠆᠊ᡰ᠋᠂᠆ᡰ᠋᠂᠆᠇᠂ᠯ	- 
-	3.0 OD x .884 ID	· -	China the		
			N N	131-12-2	١
6	Ring Flange 11485122P2	-			
41	SA182-F304		. 1	Rada1d	
		~	· L-	- Code weld	ଷ
	1" thick x 5.0 0D x 1.75 I	U		P50YP102	$\checkmark$
			•		
7.	Cap Screw 117C4516P2		AA1	TOOL HOD DOTU	c
	SA193-B6			TROL ROD DRIV	<b>G</b> .
	6 ea. 1/2 dia. on 4 1/8 bo	lt circle	. Dh	G - 768E534	
			· 0 · · · · · · · · · · · · · · · · · ·		
8.	Plug 175A7961P1	· • ••••	9. Nut 137059341	P1	
-•	SA182-F304		XM-19 SA479		
	0.38 thick x 1.307 dfa.		1.30 thick x	2.62 dia.	000
	viso unick a fisu/ ata.	•		L.	000:
					_
			•		

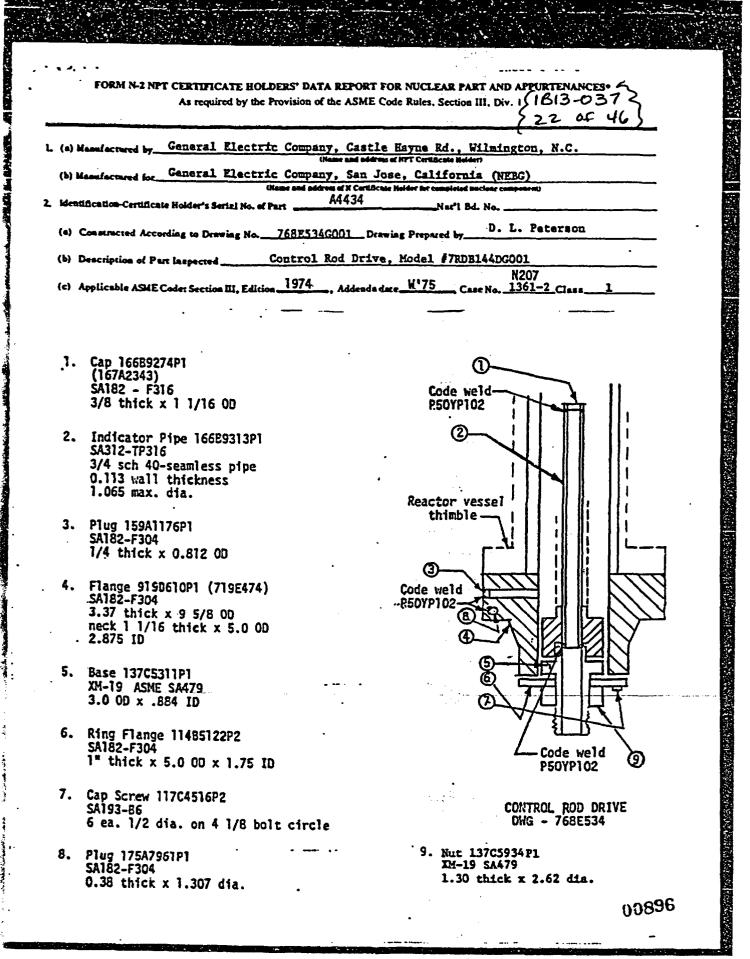
:

•••

 DODED. 00

۲	Sheet 1 of 2
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES? As required by the Provision of the ASME Code Rules, Section III, Div. 1/1813-037
	As required by the provision of the ASME Code Rules, Section III, DAV. ( 1013-031 ( 2) of 46
L	(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
	(b) Hamilactured for General Electric Company, San Jose, California (NEEG)
•	(Name and address of N Certificate Holder's Serial No. of Part
	-
	(a) Constructed According to Drawing NoDrawing Prepared by
	(b) Description of Part Laspected Control Rod Drive, Model #7RDB144DG001 N2U7
	(c) Applicable ASHE Coder Section III, Edition 1974, Addenda date
	Remarkant Standard part for use with Reactor. Hydrostatically tested at 1820 pai.
3.	(Brief description of service for which component was designed)
	* Total number of sheats - 2
1	le certify that the statements made in this report are correct and this vessel part or appuncaance as defined in the Code
OCH	is to the rules of construction of the ASME Code Section III. applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT C
CAL	Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance aded in the component Design Specification and Stress Report.)
Dau	
	CRFT Certificate Holders
_	(IDT Continents Heider
_	ificate of Authorization Expires June 16, 1981 Certificate of Authorization No NPT N-1151
_	ificate of Authorization ExpiresJune 16, 1981Certificate of Authorization NoNPT N-1151 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
Cen 	ificate of Authorization ExpiresJune 16, 1981Certificate of Authorization NoNPT N-1151 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) Design information on file atGE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
Cer I	ificate of Authorization Expires
Cert I	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) CERTIFICATION (WHEN APPURTENANCE (when applicable) CERTIFICATION
Cerr  1 5	ificate of Authorization ExpiresJune 16, 1981Certificate of Adthorization NoNPT 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 cress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified byB. N. SridharProf. Eng. State Calif Reg. No.18345
Cerr 1 S	ificate of Authorization Expires       June 16, 1981       Certificate of Authorization No
Cerr 1 S	ificate of Authorization ExpiresJune 16, 1981Certificate of Authorization NoNPT N-1151 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 1 cress analysis report on file at <u>GE</u> , NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified byB. N. SridharProf. Eng. Scare <u>Calif</u> Reg. No.18345
Cerr 1 S	ificate of Authorization Expires       June 16, 1981       Certificate of Authorization No. MPT N-1151         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         OE CERTIFICATE OF SHOP INSPECTION         OE CERTIFICATE OF SHOP INSPECTION
Cerr I S	ificate of Authorization Expires       June 16, 1981       Certificate of Authorization No. MPT N-1151         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         OESIGN FOR APPURTENANCE (when applicable)         OESIGN information on file at GE, NEPD-WAD-QA, Castle Hayne Rd., Wilmington, N.C.         22A5556, Rev. 1         Creating analysis report on file at GE, NEPD-WAD-QA, Castle Hayne Rd., Wilmington, N.C.         22A4912, Rev. 2         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 Inspector         Advector by Department of Labor
	ificate of Authorization Expires       June 16, 1981       Certificate of Adthorization 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         Certificate af Adthorization No.C.         22A5556, Rev. 1         Crease 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         CERTIFICATE OF SHOP INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspector         Adver the State of Province of North Carolina and employed by Department of Labor         Adver Inspected the part of a pressure vessel described in thi
	ificate of Authorization Expires       June 16, 1981       Certificate of Authorization No.       MPT 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       GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         22A552, Rev. 2       Image: Certifications certified by
	ificate of Authorization Expires       June 16, 1981       Certificate of Adthorization No. MPT N-1131         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         Creating on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         22A5556, Rev. 1         Creating on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         22A5912, Rev. 2         Prof. Eng. State Calif         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 Inspector         Morth Carolina and employed by Department of Labor         File part of North Carolina and employed by Department of Labor         File part of a pressure vessel described in thi         The Inspector of part of a pressure vessel described in thi         Martial Data Report on
	ificate of Authorization Expires       June 16, 1981       Certificate of Adthorization No. MPT N-1131         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         Creating on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         22A5556, Rev. 1         Creating on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         22A5912, Rev. 2         Prof. Eng. State Calif         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 Inspector         Morth Carolina and employed by Department of Labor         File part of North Carolina and employed by Department of Labor         File part of a pressure vessel described in thi         The Inspector of part of a pressure vessel described in thi         Martial Data Report on
	June 16, 1981       Certificate of Addorization No.         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         Design information on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         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         Certifications certified by
	ificate of Authorization Expires
	June 16, 1981       Arr N-1131         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         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         GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.         22A5912, Rev. 2         Design specifications certified by
	ificate of Authorization Expires June 16, 1981 Certificate of Authorization No. NPT N-1131 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) design information on file at GE, NEPD-WHD-QA, Castla Hayne Ed., Wilmington, N.C. 2245556, Rev. 1 GE, NEPD-WHD-QA, Castla Hayne Ed., Wilmington, N.C. 224552, Rev. 2 Design specifications certified by <u>B. N. Sridhar</u> Prof. Eng. State Calif Reg. No.18345 trees analysis report on file at GE, NEPD-WHD-QA, Castla Hayne Rd., Wilmington, N.C. 2244912, Rev. 2 Design specifications certified by <u>B. N. Sridhar</u> Prof. Eng. State Calif Reg. No.18345 GERTIFICATE OF SHOP INSPECTION 1, the andersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspector ad/or the State of Province of North Carolina and employed by Department of Labor State of North Carolina have Inspected the part of a pressure vessel described in this artial Data Report onshiper the inspector ship any argument with the ASME Code Section III. By slipping this certificate Holder has constructed this part in accordance with the ASME Code Section III. By and part described in this Partial Data Report. Furthermore, so that the Inspector sor his employer at the liable is any manager for any personal isjury of property damage or a loss of any kind arising from or connecter it the liable is any manager for any personal isjury of property damage or a loss of any kind arising from or connecter at the liable is any manager for any personal isjury of property damage or a loss of any kind arising from or connecter at the liable is any manager for any personal isjury of property damage or a loss of any tind arising from or connecter at the liable is any manager for any personal isjury of property damage or a loss of any tind arising from or connecter at the liable is any manager for any personal isjury of property damage or a loss of any tind arising from or connecter at the liable is any manager for any personal isjury of property damage or a loss of
	ificate of Authorization Expires
	ificate of Authorization Expires June 16, 1981 Certificate of Authorization No. MPT N-1151 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WDD-QA, Castla Hayne Rd., Wilmington, N.C. 22A5556, Rev. 1 Crease analysis report on file at GE. NEPD-WDD-QA, Castla Hayne Rd., Wilmington, N.C. 22A552, Rev. 2 besign specifications 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 Inspector Moving the State of North Carolina and employed by Department of Labor for the State of North Carolina have inspector acks any arrangy, expressed of any knowledge and bellef, the NFT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate noiser for any personal isjury of property damage or a loss of any kind arising from of consection.  ate

				•		RM N-2 (be					
liem	4-8 incl.						kered vessel				
	Shell: Mace	rial (Kind & Sp	T.S	Ne of Range J	omiant hickness posified)	Corro ia. Allow	sion macein.	Diafe		Length	ft iD.
5. 5		8	<sup>1</sup>	H.T. <sup>4</sup>		_ R.T	<u> </u>	_ Elficiency			. *
6. 1				Crewa			(b <del>)</del> Materi Conical	ini Homisphi		I.S Flut	Side to Press
(		m, enda)	Thickness	Redice	Radius	Ratio	Apox Anglo	Radiu	•	Dismotor	(Coav. or Coas.
	b)		<u> </u>								•
I	f removable	, bolts us	ed(Mar	erial, Spee. N	T.S., SIS	a, Number)	Other fas	(caing	(De se	the or attac	th sketch)
	acket Clos										
-		(Descri	)a ve ekee et	a wold, but, e	ic' îl purdia	a q i sen et eure <sup>i</sup>	if belted, desc		Drop Wei		
	esign pres		1250		<b>.</b>	·	575	°F	Charpy l R cent-	of	[t+]
. L	cauga pres			· · · · · · · · · · · · · · · · · · ·	y == =			·			
Icems	9 and 10 to	be compl	eted for tu	be sections							
		<b></b>			<b>n</b> :	3		ckaess	in. Att	schment	(Weided, Beited)
	Cube Sheets		-	(Kind & Spe	rc. No.)	(Subject 16	•				
		Floating	. Materia	I	Di	e	Thi	ckness	in. Att	schwent	e(Siz. or U)
10. 7	Fubes: Mar	erial		0.D	ins Th	ickness		. Number	·	Тур	(Str. or U)
	the ld inel				here of ind	kered yes	els, or chann	els of hest	exchan		
								-			ftir
12, 9											/*
13. 1	Giri Kesds (s) M	h laterial		H.I.'		N• •••	(b) Maceri			T.S	
	Lees	tion	Thickness	·Crown Radius-	Knuckle Radius	Elliptical Ratio	Content Apoz Angle	Hemisph Radi	orical	Flat Dismeter	Side to Press
		toes, end s			<u></u>						·
	b) Channel f removable	holes us				(c)		Diher faster	ing		
-		• • • • • • • • • • • • • • • • • • • •		······································					Drop We	isht	attach sketch)
									Charny	mosci	ft+i
	Design pres	sure*			psi 1			F	at temp		
14.			ed for all v	essels whe		ble.					
	below to b	e complet			te appuest					-	
ltem											
ltema	Salety Valv						ocation				
ltema		e Outlers:			_ Size				Rein	weethout	Mew Attached
ltema	Salety Valv Nozzlez:	e Outless:			_ Size			hick####	Rein		
ltema	Salety Valv Nozzles: Pwposo (Ini	e Outless: iet, n)	Number_	Die or Si	_ Size	Ne	(orial T		Rein	weethout	
ltema	Salety Valv Nozzles: Pwposo (Ini	e Outless: iet, n)	Number_	Die or Si	_ Size		(orial T		Rein	weethout	
15. 16.	Safety Yalv Nozzles: Purpose (Ini Outlet, Drat	e Outlets:	Number	Die + Si	_ Size	гро Ие	(orial T	"hickness	Rein Mi	i ere enzont k ori el	Hew Attached
15. 16.	Safety Yalv Nozzles: Purpose (Ini Outlet, Drat	e Outlers:	Number	Die er Sti	_ Size	гре Ие I	(orlal T 	"hick##88	Rein Mi	i preemont koriel	Hew Attached
Items 15. 1 16. 1 17. 1	Safety Valv Nozzless Purpose (Ini Outlet, Drad Inspection Openings:	e Outlets: n) : Munholes Handhole	Number	Dia er Si	_ Size	гро Ие Ие Loc Loc	Aorial T	*hickmess	Retni Mr	larseinent keriel	Hew Assoched
Items 15. 1 16. 1 17. 1	Safety Valv Nozzless Purpose (Ini Outlet, Drad Inspection Openings:	e Outlets: n) : Munholes Handhole	Number	Dia er Si	_ Size	гро Ие Ие Loc Loc	(orlal T 	*hickmess	Retni Mr	larseinent keriel	Hew Assoched
15. 1 16. 1 17. 1	Safety Valv Nozzles: Purpose (Ini Outlet, Drad Inspection Openings: Supports: S	e Outlets: m) : Musholes Handhole Threaded ikirt (Yee MontTool	Number	Dia or Sid	Size =-	140 140 140 140 140 140 140 	ation	*hickmess	Retni Mr	larseinent keriel	Hew Assoched
15. 1 16. 1 17. 1	Safety Valv Nozzles: Purpose (Ini Outlet, Drad Inspection Openings: Supports: S	e Outlets: m) : Musholes Handhole Threaded ikirt (Yee MontTool	Number	Dia or Sid	Size =-	140 140 140 140 140 140 140 	Aorial T	*hickmess	Retni Mr	larseinent keriel	Hew Assoched



REPORT NO. P0059-009

FORM N.2. NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPLRTENANCES' As required by the Provision of the ASME Code Rules. Section III. Div. 1 [ 78:3-0:372 2.3.3.0.4 UG 2.4.3.0.4 UG 2.4.3.0.4 UG 2.4.3.0.4 UG (a) Manufactured by <u>General Electric Company, Castle Hayne Rd., Wilstonton, N.C.</u> (b) Manufactured by <u>General Electric Company, Castle Hayne Rd., Wilstonton, N.C.</u> (c) Manufactured for <u>General Electric Company, Castle Hayne Rd., Wilstonton, N.C.</u> (d) Manufactured for <u>General Electric Company, Castle Hayne Rd., Wilstonton, N.C.</u> (e) Manufactured for <u>General Electric Company, San Jose, California (NEESO)</u> (d) Description of Part Laperted Control Robert of the No. (e) Constructed According to Drawing No. 76525340001 Drawing Prepared by <u>D. L. Peterson</u> (e) Description of Part Laperted Control Rode 1976, Case No. 1561-2 Class <u>1</u> 3. Remacka: <u>Standard part for use with Raactor</u> . Bydrosettically tested at 1820 psi. (End description of the ASEE Code Section III. (End description of the ASEE Code Section III. (End description of the remain submitter of the Net Section III. (End description of the remain submitter of the Net Section III. (End description of the remain submitter of the Net Section III. (End description of the ASEE Code Section III. (End description of the SASE Code Section III. (End description of the ASEE Code Section III. (End description Company) and Section III. (End description Company) and ASEE Code Section III. (End description Company) and Section III. (End description Company) and Section III. (End description Company) and ASEE Code Section III. (End description III. (End description III. (End description III. (End description Company) and III. (End description III	B13 - 16977 Sheet 1 of 2	
(b) Manufactured for <u>General Electric Company</u> , San Jose, California (NEBG) Useas as destroy of Conficter Moder to Serial No. of Part <u>A3531</u> Ner' BA. No. (a) Constructed According to Drawing No. 76823346001 (b) Descriptions of Part Inspected <u>Control Ecd Drive</u> , Model #7EDB144D6001 (c) Applicable ASME Code: Section II, Edition <u>1974</u> , Addende dere W'75 (c) Applicable ASME Code: Section II, Edition <u>1974</u> , Addende dere W'75 (c) Applicable ASME Code: Section II, Edition <u>1974</u> , Addende dere W'75 (c) Applicable ASME Code: Section II, Edition <u>1974</u> , Addende dere W'75 (c) Applicable ASME Code: Section II, Edition <u>1974</u> , Addende dere W'75 (c) Applicable ASME Code: Section II, Edition <u>1974</u> , Addende dere W'75 (c) Applicable ASME Code: Section II, Edition <u>1974</u> , Addende dere W'75 (Editid description of section and the ASME Code Section III. (Beitid description of section and Stress Addende dere W'75 (Beitid description of section and Stress Addende dere W'75 (Beitid description of the ASME Code Section III. The Holder for separatements and is this report are convert and dis vessel part or apputtenance as defined in the Code content of the ASME Code Section III. The Holder for separatements and Sectification and Stress Adentication and Stress Report of the Separatement and Stress Report of the Separatement of the ASME Code: Section III. Description in the component Description and Stress Report of Addende and Stress Report of the separatement is no instituted in the contraction of the ASME Code Section III. Description information Empires. <u>SEPECHEDER 15.</u> 1981 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) Design informations on file a <u>CC</u> . NEPD-WD-QA. Caselle Earne Ed., Willington, M.C. 22A94212, 240 - 2 Design specifications centified by <u>B</u> . N. Stidhar prot. Eag. Suce Calif. Rep. No.23245 Stress analysis report on file a <u>CC</u> . NEPD-WD-QA. Caselle Earne Ed., Willington, M.C. 22A94212, 240 - 2 Design specifications centified by <u>B</u> . N. Stidhar Prot. Eag. Suce Calif. Rep	As required by the Provision of the ASME Code Rules. Section 111. Div. 1 (1813-037)	1
Use a data data of Controls Moder's Serial No. of Part         A1551       Nort'l Bd. No.         (a) Constructed According to Drawing No. 7682534G001       Drawing Prepared by D. L. Paterson         (b) Description of Put Inspected       Control Eod Drive, Model #7RDB144DG001         (c) Applicable ASHE Code: Section II, Edition 1974       Addenda date M'75       Case No.         (c) Applicable ASHE Code: Section II, Edition 1974       Addenda date M'75       Case No.         (c) Applicable ASHE Code: Section II, Edition 1974       Addenda date M'75       Case No.         (d) Construct A for use with Reactor.       Bydrostatically tested at 1820 psi.         (d) Construct Standard part for use with Reactor.       Bydrostatical Section Standard Part for use with Reactor.         (d) Construct Standard part for use with Reactor.       Bydrostatical Base Standard Part for use with Reactor.         (d) Construct Standard part for use with Reactor.       Bydrostatical Base Standard Part for use a correct and this vessel part or sepurtosates a defined in the Coord control Base Standard Part for Standard Part Centrols Socialization and Stress Report if the sepurtosates is a control Base Stress Report if the sepurtosates is a control Base Stress Report if the sepurtosates is a control Base Stress Report if the sepurtosate in a report Stress Report if the sepurtosates in a control Base Stress Report if the sepurtosates in a control Base Stress Report if the sepurtosate in a report stress Report if the sepurtosates in a control Base Stress Report if the sequitable in the sepuration and Base Stress Report if		
2 Meenflocation-Certificate Molder's Serial No. of Part <u>A3551</u> Nac'l B4. No. (a) Constructed According to Drawing No. <u>76825346001</u> Drawing Prepared by <u>D</u> . L. Faterson (b) Description of Par Inspected <u>Control Ecol Drive</u> , Model #7ED2144D6001 (c) Applicable ASME Code: Section III, Edition <u>1974</u> , Addenda date <u>M'75</u> , Case No. <u>1261-2</u> Class <u>1</u> (c) Applicable ASME Code: Section III, Edition <u>1974</u> , Addenda date <u>M'75</u> , Case No. <u>1261-2</u> Class <u>1</u> (d) Description of Par Inspected <u>Control Ecol Drive</u> , Model #7ED2144D6001 (e) Description of Sheats - 2 <u>(Brief description of the states of the states of the state of at 1520 pai.</u> (Brief description of there's for which compared the states of a states of the states of at 1520 pai. (Brief description of the states of the states of the states of the NTC Certificate Model for part. An NTC Certificate Model for separatements and/s in this report of control in the states of the applicable of the applicable of the states of the states of the states of the applicable of t	(b) Manufactured for General Electric Company, San Jose, California (NEBG)	
(b) Description of Part Isspected Control 2cd Drive, Model #7RD2144DG001 N207 (c) Applicable ASME Code: Service III, Edition 1974 , Addenda dase W'75 , Case No. 1361-2 Class 1 3. Remarks: Standard part for use with Reactor. Eydrostatically tested at 1820 psi. (End description of several for use with Reactor. Eydrostatically tested at 1820 psi. (End description of several for use with Reactor. Eydrostatically tested at 1820 psi. (End description of several for use with Reactor. Eydrostatically tested at 1820 psi. (End description of several for use with Reactor. Eydrostatically tested at 1820 psi. (End description of several for use with Reactor. Eydrostatically tested at 1820 psi. (End description of the ASME Code Service III. (End description and Stress Report and the Code con- forms to the file of construction of the ASME Code Service III. (End description and Stress Report of the appartemance is no included in the common testing Sectification and Stress Report of the appartemance is no included in the common testing Sectification and Stress Report. Date	2. Identification-Certificate Holder's Serial No. of PartA3551Nat'l Bd. No	
(b) Description of Part Isspected Control 2cd Drive, Model #7RD2144DG001 N207 (c) Applicable ASME Code: Service III, Edition 1974 , Addenda dase W'75 , Case No. 1361-2 Class 1 3. Remarks: Standard part for use with Reactor. Eydrostatically tested at 1820 psi. (End description of several for use with Reactor. Eydrostatically tested at 1820 psi. (End description of several for use with Reactor. Eydrostatically tested at 1820 psi. (End description of several for use with Reactor. Eydrostatically tested at 1820 psi. (End description of several for use with Reactor. Eydrostatically tested at 1820 psi. (End description of several for use with Reactor. Eydrostatically tested at 1820 psi. (End description of the ASME Code Service III. (End description and Stress Report and the Code con- forms to the file of construction of the ASME Code Service III. (End description and Stress Report of the appartemance is no included in the common testing Sectification and Stress Report of the appartemance is no included in the common testing Sectification and Stress Report. Date	(a) Constructed According to Drawing No Drawing Prepared by D. L. Paterson	
(c) Applicable ASME Code: Section III, Edition 1974 , Addenda date W'75 , Case Na. 1961-2 Class 1 (c) Applicable ASME Code: Section III, Edition 1974 , Addenda date W'75 , Case Na. 1961-2 Class 1 (End description of the Astronomy of the Astronomy of Astronomy o	(b) Description of Part Issues de Control Rod Drive, Model \$7RDB144DG001	
(Brief description of the retriev for which composised was designed)  A Total number of sheats - 2  Ve certify that the starements made in this report are correct and this versuel part or apputtenance as defined in the Coor com- from so the reles of construction of the ASME Code Section III.  The applicable Design Specification and Stress Report are correct and this versuel part or apputtenance as defined in the Coor com- instituted in the composition of the ASME Code Section III.  The applicable Design Specification and Stress Report are not the reportability of the NFT Certificate Molder for parts. An NFT Certificate field to the composition of the apputtenance is no  instituted in the composition of the apputtenance is no  instituted in the composition of the apputtenance is no  instituted in the composition ExpiresSeptember 15, 1981 Certificate of Achorization No. NFT N-1151  CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)  CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)  Design information of file as GZ, NEFD-W2D-QA, Castle Hayne Rd., Wilmington, N.C. 22A6912, Rev. 2  Seress analysis report of file as GZ, NEFD-W2D-QA, Castle Hayne Rd., Wilmington, N.C. 22A6912, Rev. 2  CERTIFICATE OF SHOP INSPECTION  I, the undertripted, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Portiace of Morth Cartolina	(c) Applicable ASHE Code: Section III, Edition 1974 , Addenda date W'75 Case No. 1361-2 L	· · · · · · · · · · · · · · · · · · ·
We certify dat the statements made in this report are correct and this ressel part or appurtenance as defined in the Coor coarding on the state of construction of the ASME Code Section III.         The applicable Design Specification and Stern Report are not the responsibility of the NPT Certificate Holder for part. An NPT Certificate Holder for appurtenance is responsible for furnishing a separate Design Specification and Stern Report.)         Date	3. Remarks: Standard part for use with Reactor. Eydrostatically tested at 1820 psi. (Brief description of service for which component was designed)	
forms to the rules of construction of the ASEE Code Section III.         forms to the rules of construction of the ASEE Code Section III.         forms to the solution Design Specification and Steps Report are not the reponsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for parts. An NPT Certificate Holder for parts. An NPT Certificate and Steps Report of the appartenance is no included in the component Design Specification and Steps Report.         Date       7/23       19 81       Signed       GZ, NEPD-W2D-QA       By       Mutoutumut         UGT Cardicate Moder       By       Mutoutumut       NPT N-1151         CERTIFICATION OF DESIGN FOR APPURTENANCE (when epplicable)       Net N-1151         Design information on file ar       GZ, NEPD-W2D-QA, Castle Hayne Rd., Wilmington, N.C.         222A5556, Rev. 2       Stress analysis report on file ar GZ, NEPD-W2D-QA, Castle Hayne Rd., Wilmington, N.C.         22A4912, Rev. 2       Design informations certified by 3. N. Sridhar       Prof. Eng. State Callf         Persons analysis report certified by 3. N. Sridhar       Prof. Eng. State Callf       Reg. No.18345         Stress analysis report certified by 3. N. Sridhar       Prof. Eng. State Callf       Reg. No.18345         Stress analysis report certified by 3. N. Sridhar       Prof. Eng. State Callf       Reg. No.18345         Stress analysis report certified by 3. N. Sridhar       Prof. Eng. State Callf       Reg. No.18345         <	* Total number of sheets - 2	
forms to the rules of construction of the ASEE Code Section III.         forms to the rules of construction of the ASEE Code Section III.         forms to the solution Design Specification and Steps Report are not the reponsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for parts. An NPT Certificate Holder for parts. An NPT Certificate and Steps Report of the appartenance is no included in the component Design Specification and Steps Report.         Date       7/23       19 81       Signed       GZ, NEPD-W2D-QA       By       Mutoutumut         UGT Cardicate Moder       By       Mutoutumut       NPT N-1151         CERTIFICATION OF DESIGN FOR APPURTENANCE (when epplicable)       Net N-1151         Design information on file ar       GZ, NEPD-W2D-QA, Castle Hayne Rd., Wilmington, N.C.         222A5556, Rev. 2       Stress analysis report on file ar GZ, NEPD-W2D-QA, Castle Hayne Rd., Wilmington, N.C.         22A4912, Rev. 2       Design informations certified by 3. N. Sridhar       Prof. Eng. State Callf         Persons analysis report certified by 3. N. Sridhar       Prof. Eng. State Callf       Reg. No.18345         Stress analysis report certified by 3. N. Sridhar       Prof. Eng. State Callf       Reg. No.18345         Stress analysis report certified by 3. N. Sridhar       Prof. Eng. State Callf       Reg. No.18345         Stress analysis report certified by 3. N. Sridhar       Prof. Eng. State Callf       Reg. No.18345         <	· · · · · · · · · · · · · · · · · · ·	
GE, NEFD-WAD-QA, Castle Hayne Rd., Wilmington, N.C.         22A5556, Rev. 2         Scress analysis report on file at GE, NEFD-WAD-QA, Castle Hayne Rd., Wilmington, N.C.         22A4512, Rev. 2         Design specifications certified by <u>3</u> . N. Sridhar         Prof. Eng. State Calif         Reg. No.18345         Scress analysis report certified by <u>3</u> . N. Sridhar         Prof. Eng. State Calif         Reg. No.18345         Scress analysis report certified by <u>3</u> . N. Sridhar         Prof. Eng. State Calif         Reg. No.18345         CERTIFICATE OF SHOP INSPECTION         1. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesset Inspectors and/or the State of Province of <u>NOTTH Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have inspected the part of a pressure vesset described in this Partial bats Report on <u>1/23</u> if 1. and state that to the best of my knowledge and belief. the NPT Conflictute Holder has constructed this part in accordance with the ASME Code Section III.         By signing this certificate, setther the isspector sor his employee takes any warrany, erpressed or implied, concerning the isspection.         Date <u>1/23</u> :9 81         N.C. 723, PA.WC1766, OHIO         Laboretr's Signeture       Netword State, Province and Netword State         Laboretr's Signeture       Commissions         Netword State, Province and		e is no
Design information on file sc.         22A5556, Rev. 2         Scress analysis report on file at GE. NEPD-WAD-OA. Castle Hayne Rd., Wilmington, N.C.         22A4912, Rev. 2         Design specifications certified by 3. N. Sridhar         Prof. Eng. State Callf Reg. No.18345         Scress analysis report certified by 3. N. Sridhar         Prof. Eng. State Callf Reg. No.18345         Scress analysis report certified by 3. N. Sridhar         Prof. Eng. State Callf Reg. No.18345         Scress analysis report certified by 3. N. Sridhar         Prof. Eng. State Callf Reg. No.18345         Scress analysis report certified by 3. N. Sridhar         Prof. Eng. State Callf Reg. No.18345         CERTIFICATE OF SHOP INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesset Inspectors and/or the Sast or Province of North Carolina and employed by Department of Labor         of	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)	
Scress satives report on file at GZ. NEPD-WRD-QA. Castle Hayne Rd., Wilmington, N.C.         22A4912, Rev. 2         Design specifications certified by <u>3. N. Sridhar</u> Prof. Eng. State Calif Reg. No.18345         Scress satives report certified by <u>B. N. Sridhar</u> Prof. Eng. State Calif Reg. No.18345         CERTIFICATE OF SHOP INSPECTION         I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of North Carolina and employed by Department of Labor         et	Design information on file st	
Design specifications certified by 3. N. Sridhar       Prof. Eng. State Calif Reg. No.18345         Stress analysis report certified by B. N. Sridhar       Prof. Eng. State Calif Reg. No.18345         CERTIFICATE OF SHOP INSPECTION         I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of North Carolina and employed by Department of Labor         of North Carolina and employed by Department of Labor         of North Carolina bave inspected the part of a pressure vessel described in this partial Data Report on 181. and state that to the best of my knowledge and bit certificate, meither the inspector sor his employer makes my warranty, expressed or implied, concerning the sart described in this Partial Data Report. Furthermore, Betther the Inspector and his employer makes my warranty, expressed or implied, concerning this inspection.         Date       1/23       19 81         Matter described.       19 81       19 81         N.C. 723, PA.WC1766, OH10         Inspector's Signeture         Netional Board. State, Province and Net.	Scress ensiyeis report on file as GE, NEPD-WAD-OA, Castle Hayne Rd., Wilmington, N.C.	
CERTIFICATE OF SHOP INSPECTION         I, the undersigned, holding a valid commission issued by the Nacional Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of North Carolina and employed by <u>Department of Labor</u> of		5
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 <u>North Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>7/23</u> is <u>1</u> , 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, seither the inspector sor his employer makes my warranty, expressed or implied, concern- ing the part described in this Partial Data Report. Furthermore, seither the Inspector are not his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date <u>1723</u> :9 81 <u>N.C. 723, PA.WC1766, OHIO</u> <u>Inspector's Signature</u> Commissions Netional Board, Rate, Province and Ne.	Scress saalysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 1834	5
and/or the State or Province of <u>North Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>7/23</u> is <u>1</u> , 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, seither the inspector sor his employer makes my warmany, expressed or implied, concern- ing the sart 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 <u>1423</u> is <u>81</u> Lassetter's signature Lassetter's signature Network State, Province and Network Network State, Province and Network	CERTIFICATE OF SHOP INSPECTION	
Partial Data Report on	and/or the State or Province of North Carolina and employed by Department of Labor	
N.C. 723, PA.WC1766, OHIO Laspertar's Signature Commissions	Partial Data Report on	42 1 <del>1-</del> 141
laspector's Signature Net. Netional Joard, State, Province and Net	N.C. 723, PA.WC1766, OHIO	
	lassector's Signature Nettonal Board, State, Province and Ne.	

.

---

This form (E000:40) may be consided formate Cross Dear. SME: 35 2. 18737 St., New York, N.Y. 10017

FORM	N-2	(back)
------	-----	--------

\_\_\_\_\_

.

- \_\_\_\_\_

	Shell:	Hacerial	T.S pee. No.) (Mi		ominal hickness specified)	Corre in. Allo	osion wance in.	9ia ft	in. Length_	fe
5.	Sesas	Long	H	(.T. <sup>1</sup>		_ R.T		Efficiency		. 7
		Girth		I.T. <sup>i</sup>				No. of Courses		
6.	Hends	(a) Material			_ T.S			al la	T.S	
	(Tan	Location bottom, ends)	Thickness		Kouchie Radius	Ellipticai Ratia	Conical Apez Angle			Side re
		•							Diameter	(Coav.
	If report	rable, bolta us	ed.				Other fast	enine		
_					le., T.S., Siz				scribe or sta	th skatch)
7.	Jacket	(Descri	be as eges and	tweid, bar, e	ne. If bar gav	dimensions,	, if beited, deser			
								Drog 1	leight / lafpact	
3.	Design	pressure1	1250		psi s	:	575		p. of	
		10 to be compl				L	Thic	knessia. A	ttachment	Velded, 3
		Floreine						knessin. A		
:0.	Tubess	Macerial		_ 0.D	ia. Thi	ickness	inches	Number	Type	· · · · · · · · · · · · · · · · · · ·
										( <b>507.</b> a
ltem	s 11—14	incl. to be con	mpleced for i	inner cham	bers of isc	kered vesse	ris, or change	is of hese exchan	sgers.	
		Girch	H	.T.'		8.T		No. of Courses .		
:3.	Heads							·		
		Lacation	Theimen	Redive		•	Apez Angle	Radius		Side te (Caev. )
			·	·		<u> </u>	<u> </u>			
	'SI Can	ael								
	() (COMON	2016, 20115 454	ra (#J		··	(*)	Ut	her fascening		
									erght	
14,	Design	pressure <sup>2</sup>			251 4				. st	
·								······································	<u> </u>	
item	s beiow	to be complete	d for all ver	sseis vaer			· · · · · · · · · · · · · · · · · · ·			
:5.	Safety V	aive Outlets:	Number				JC 11101			
	Nazzles									
	7-279484				_	-			forcement	Hew At
	Juliet,	3794A3 N		Jia, 19 318	• Ty <b>s</b>	e Vat	erial Thi	CIU444 A1	sterial	A A0
	Inspects	ion Manhoies.	Na		ـــــــــــــــــــــــــــــــــــــ	L.xcs				
:*.										
; <b>?</b> .	Opening	s: Hanahales	., Na		24					
•		Thresded,	Na	Si	٤e	L.əca	ition	er.agi a		

	REPORT NO. P0059-009
• •	Sheet 2 of 2
	PORT FOR NUCLEAR PART AND APPURTENANCES
	(24 of 46)
	and address of NPT Certificate Holders
(b) Manufactured for General Electric Company,	San Jose, California (NEBG)
	N Certificate Holder for completed Auclear components
Identification-Certificate Holder's Serial No. of PartA3	
(a) Constructed According to Drawing No. 768E534G00	
(b) Description of Part Inspected Control Rod	
(c) Applicable ASME Code: Section III, Edition 1974 , Ac	N207 ddenda dare <u>W'75</u> , Case No. <u>1361-2</u> Class <u>1</u>
1. Cap 166B9274P1	
· (167A2343)	
SA182 - F316	Code weld
3/8 thick x 1 1/16 0D	P50YP102
2. Indicator Pipe 166B9313P1	
SA312-TP316	
3/4 sch 40-seamless pipe 0.113 wall thickness	
1.065 max. dia.	
3.000 HAX. 414.	Reactor vessel
2 01.00 1504137601	thimble
3. Plug 159A1176P1	
SA182-F304 1/4 thick x 0.812 0D	
1/4 UNICK X U.GIZ UU	
4. Flange 9190610P1 (719E474)	Code weld
SA182-F304	
3.37 thick x 9 5/8 00	
neck 1 1/16 thick x 5.0 0D 2.875 ID	
• 6•019 Th	
P	
5. Base 137C5311P1	
XM-19 ASME SA479	
3.0-0D x .884 ID	Charles Ind I
• • • • • • • • •	×/ 31-14-21
6. Ring Flange 11485122P2	
SA182-F304	Code weld
1" thick x 5.0 0D x 1.75 ID	P50YP102
7 Can Serrey 1176453600	•
7. Cap Screw 117C4516P2 SA193-86	CONTROL ROD DRIVE
6 ea. $1/2$ dia. on 4 $1/8$ bolt circle	DWG - 768E534
8. Plug 175A7961P1	9. Nut 137C5934P1
SA182-F304	IM-19 SA479
0.38 thick x 1.307 dia.	1.30 thick x 2.62 dia.
the thick A 1.3D/ UIG.	
	00011

\_\_\_\_\_

00011

**...** -

.

		REPORT NO. P0059-009
•		Sheet 1 of 2
FORM N-2 NPT CERTIFIC	ATE HOLDERS' DATA REPORT FOR NUCLE.	AR PART AND APPURTENANCES
As requir	red by the Provision of the ASME Code Rules. S	Section III. Div. 1 (1813-037)
<b>`</b>		( 25 of 46)
and the second s		
(a) Manufactured by General	Electric Company, Castle Hayne R	d., Wilmington, N.C.
1	Uname and address of NPT Certific	
(b) Manufactured forGeneral	Electric Company, San Jose, Cali	
· · · · · · · · · · · · · · · · · · ·	rial No. of Part A5699N	
and the second sec		
(a) Constructed According to Dra	wing No Drawing Prepare	d by D. L. Peterson
	Control Rod Drive, Model #7RDB	3144DG001
(b) Description of Part Inspected		N207
(c) Applicable ASHE Coder Service	a III, Edition 1974 , Addends date W'75	1361-2 1
Remarker_Standard part fo	or use with Reactor. Hydrostatic	ally tested at 1820 psi.
	(Brief description of service for which campone	ent was designed)
* Total number of	f sheets - 2	
te Holder for appurtenances is respo sluded in the component Design Spe	-	on and Stress Report if the appurtenance is not
te-Holder for appurtenances is respondent Design Spe divided in the component Design Spe <u>4/24</u> 19 81	nsible for furnishing a separate Design Specification etification and Stress Report.) Signed <u>GE</u> , <u>NEPD-W4D-QA</u> (NPT Cortificate Holders (NPT Cortificate Holders	on and Stress Report if the appurtenance is not
te Holder for appurtenances is respo cluded in the component Design Spe <u>4/24</u> 19 <u>81</u> multicate of Aschorization Expires	nsible for furnishing a separate Design Specification effication and Stress Report.) Signed <u>GE, NEPD-WMD-QA</u> (NPT Corudente Holderr June 16, 1981 Certificate of	Auchorizacion No. <u>NPT N-1151</u>
te Holder for appartenances is responsible chuded in the component Design Spe <u>4/24</u> 19 81 multicate of Anthonization Expires_ CERTIFICA	asible for furnishing a separate Design Specification confication and Stress Report.) Signed <u>GE, NEPD-WMD-QA</u> (NET Cardicate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE	Authorization No. <u>NPT N-1151</u> (when applicable)
te Holder for appurtenances is responsible inded in the component Design Spe <u>4/24</u> 19 81 crificate of Authorization Expires_ CERTIFICA GE	nsible for furnishing a separate Design Specification effication and Stress Report.) Signed <u>GE, NEPD-WMD-QA</u> (NPT Corudente Holderr June 16, 1981 Certificate of	Authorization No. <u>NPT N-1151</u> (when applicable)
te Holder for appurtenances is respo- luded in the component Design Spe 	asible for furnishing a separate Design Specification crification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA (NPT Condicate Holdern June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd.,	Authorization No. <u>NPT N-1151</u> (when applicable) Wilmington, N.C.
4/24 19 81 A/24 19 81 A/24 19 81 A/24 19 81 A/24 19 81 CERTIFICA CERTIFICA Design information on file at GE 22A5556, Rev. 1 Stress analysis report on file at G	asible for furnishing a separate Design Specification confication and Stress Report.) Signed <u>GE, NEPD-WMD-QA</u> (NET Cardicate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE	Authorization No. NPT N-1151 (when applicable) Wilmington, N.C.
4/24 19 81 reflected in the component Design Spe 4/24 19 81 reflecter of Authorization Expires. CERTIFICA Design information on file at. 22A5556, Rev. 1 Stress analysis report on file at. 22A4912, Rev. 2	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NFT Certificate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E, NEPD-WHD-QA, Castle Hayne Rd.,	Authorization No. NPT N-1151 (when applicable) Wilmington, N.C.
4/24 19 81 reflected in the component Design Spe 4/24 19 81 reflecter of Authorization Expires_ CERTIFICA Design information on file at <u>GE</u> 22A5556, Rev. 1 Stress analysis report on file at <u>GE</u>	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NFT Certificate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E, NEPD-WHD-QA, Castle Hayne Rd.,	Authorization No. NPT N-1151 (when applicable) Wilmington, N.C.
4/24 19 81 rtificate of Authorization Expires. CERTIFICA Design information on file at GE 22A5556, Rev. 1 Stress analysis report on file at GE 22A4912, Rev. 2 Design specifications certified by	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NEPC-Ceruideans Holderr June 16, 1981 Ceruificace of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. NEPD-WHD-QA, Castle Hayne Rd., B. N. Sridhar Pr	Authorization No. <u>NPT N-1151</u> (when applicable) Wilmington, N.C. <u>Wilmington, N.C.</u>
4/24 19 81 reflected in the component Design Spe 4/24 19 81 reflecter of Authorization Expires. CERTIFICA Design information on file at. 22A5556, Rev. 1 Stress analysis report on file at. 22A4912, Rev. 2	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NEPC-Ceruideans Holderr June 16, 1981 Ceruificace of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. NEPD-WHD-QA, Castle Hayne Rd., B. N. Sridhar Pr	Authorization No. NPT N-1151 (when applicable) Wilmington, N.C.
4/24 19 81 A/24 19 81 A/24 19 81 A/24 19 81 A/24 19 81 Artificate of Authorization Expires. CERTIFICA Design information on file at GE 22A5556, Rev. 1 Stress analysis report on file at GE 22A4912, Rev. 2 Design specifications certified by	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NEPC-Ceruideans Holderr June 16, 1981 Ceruificace of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. NEPD-WHD-QA, Castle Hayne Rd., B. N. Sridhar Pr	Authorization No. <u>NPT N-1151</u> (when applicable) Wilmington, N.C. Wilmington, N.C.
4/24 19 81 A/24 19 81 A/24 19 81 A/24 19 81 A/24 19 81 A/24 19 81 A/24 19 81 CERTIFICA CERTIFICA Design information on file at 22A5556, Rev. 1 Stress analysis report on file at G 22A4912, Rev. 2 Design specifications certified by. Stress analysis report certified by.	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NFT Certificate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. N. Sridhar Pr B. N. Sridhar Pr CERTIFICATE OF SHOP INSPECTION	Authorization No. <u>NPT N-1151</u> (when applicable) Wilmington, N.C.
4/24 19 81 A/24 19 81 CERTIFICA CERTIFICA Design information on file at GE 22A5556, Rev. 1 Scress analysis report on file at GE 22A4912, Rev. 2 Design specifications certified by Scress analysis report certified by Scress analysis report certified by Scress analysis report certified by	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NFT Certificate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. NEPD-WHD-QA, Castle Hayne Rd., E. N. Sridhar Pr B. N. Sridhar Pr CERTIFICATE OF SHOP INSPECTION alid commission issued by the National Board of	Authorization No. <u>NPT N-1151</u> (when applicable) Wilmington, N.C. <u>Wilmington, N.C.</u> Nof. Eng. State <u>Calif</u> Reg. No. <u>18345</u> NN of Boiler and Pressure Vessel Inspectors
4/24 19 81 4/24 19 81 crificate of Authorization Expires. CERTIFICA Design information on file at 22A5556, Rev. 1 Scress analysis report on file at G 22A4912, Rev. 2 Design specifications certified by. Scress analysis report certified by.	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NEPC-Certificate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. N. Sridhar Pr B. N. Sridhar Pr B. N. Sridhar Pr CERTIFICATE OF SHOP INSPECTION alid commission issued by the National Board of Orth Carolina and employed by Depart	on and Stress Report if the appurtemance is soc <u>Authorization No.</u> <u>NPT N-1151</u> (when applicable) Wilmington, N.C. <u>Wilmington, N.C.</u> rof. Eng. State <u>Calif</u> Reg. No.18345 rof. Eng. State <u>Calif</u> Reg. No.18345 N ON of Boiler and Pressure Vessel Inspectors <u>Ement of Labor</u>
Le Holder for appurtensaces is respo 	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NEPC-Certificate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. N. Sridhar Pr B. N. Sridhar Pr B. N. Sridhar Pr CERTIFICATE OF SHOP INSPECTION alid commission issued by the National Board of Orth Carolina and employed by Depart rolina have inspected the part 4/24 19	on and Stress Report if the appurtenance is not <u>Authorization No.</u> <u>NPT N-1151</u> (when applicable) Wilmington, N.C. <u>Wilmington, N.C.</u> wilmington, N.C. <u>Wilmington, N.C.</u> not. Eng. State <u>Calif</u> Reg. No.18345 rot. Eng. State <u>Calif</u> Reg. No.18345 N of Boiler and Pressure Vessel Inspectors <u>timent of Labor</u> of a pressure vessel described in this and state that to the best of my knowledge
4/24 19 81 4/24 19 81 4/24 19 81 crificate of Authorization Expires_ CERTIFICA Design information on file at_ 22A5556, Rev. 1 Scress analysis report on file at_ 22A4912, Rev. 2 Design specifications certified by. Stress analysis report certified by.	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NFT Certificate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. NEPD-WHD-QA, Castle Hayne Rd., E. N. Sridhar Pr B. N. Sridhar Pr B. N. Sridhar Pr CERTIFICATE OF SHOP INSPECTION alid commission issued by the National Board of Orth Carolina and employed by Depart Tolina have inspected the part 4/24 19 8	on and Stress Report if the appurtemance is not (
4/24 19 81 4/24 19 81 4/24 19 81 crificate of Anthorization Expires. CERTIFICA Design information on file at 22A5556, Rev. 1 Stress analysis report on file at G 22A4912, Rev. 2 Design specifications certified by. Stress analysis report certified by. Stress analysis ceport certified by. Stress analysis ceport certified by.	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NEPC-Ceruificate Holderr June 16, 1981 Ceruificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. N. Sridhar Pr B. N. Sridhar Pr B. N. Sridhar Pr CERTIFICATE OF SHOP INSPECTIC alid commission issued by the National Board of Orth Carolina and employed by Depart Tolina have inspected the part 4/24 19 8 r has constructed this part in accordance with the inter the laspector nor his employer makes any	on and Stress Report if the appurtenance is not <u>Authorization No.</u> <u>NPT N-1151</u> (when applicable) Wilmington, N.C. <u>Wilmington, N.C.</u> wilmington, N.C. <u>Wilmington, N.C.</u> not. Eng. State <u>Calif</u> Reg. No. <u>18345</u> not. Eng. State <u>Calif</u> Reg. No. <u>18345</u> N of Boiler and Pressure Vessel inspectors <u>tment of Labor</u> of a pressure vessel described in this . and state that to the best of my knowledge ASME Code Section III. warranty, expressed or implied, concern- ther the inspector nor his employer
4/24 19 81 4/24 19 81 4/24 19 81 crificate of Anthorization Expires. CERTIFICA Design information on file at 22A5556, Rev. 1 Stress analysis report on file at G 22A4912, Rev. 2 Design specifications certified by. Stress analysis report certified by. Stress analysis ceport on and belief, the NPT Certificate Holde By signing this certificate, arises the aart described in the	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NPT Condicate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. NEPD-WHD-QA, Castle Hayne Rd., E. NEPD-WHD-QA, Castle Hayne Rd., B. N. Sridhar Pr B. N. Sridhar Pr B. N. Sridhar Pr CERTIFICATE OF SHOP INSPECTION alid commission issued by the National Board of Orth Carolina and employed by Depart rolina have inspected the part 4/24 19 B	on and Stress Report if the appurtenance is not <u>Authorization No.</u> <u>NPT N-1151</u> (when applicable) Wilmington, N.C. <u>Wilmington, N.C.</u> wilmington, N.C. <u>Wilmington, N.C.</u> not. Eng. State <u>Calif</u> Reg. No. <u>18345</u> not. Eng. State <u>Calif</u> Reg. No. <u>18345</u> N of Boiler and Pressure Vessel inspectors <u>tment of Labor</u> of a pressure vessel described in this . and state that to the best of my knowledge ASME Code Section III. warranty, expressed or implied, concern- ther the inspector nor his employer
4/24 19 81 4/24 19 81 4/24 19 81 crificate of Authorization Expires_ CERTIFICA Design information on file at_ 22A5556, Rev. 1 Scress analysis report on file at_ 22A4912, Rev. 2 Design specifications certified by. Scress analysis report certified by. State of North Ca Partial Data Report on and belief, the NPT Certificate Holde By signing this certificate, set ins the part described in thi shall be liable in any manner for with this inspection.	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NEPC-Certificate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. NEPD-WHD-QA, Castle Hayne Rd., E. N. Sridhar Pr B. N. Sridhar Pr B. N. Sridhar Pr CERTIFICATE OF SHOP INSPECTION alid commission issued by the National Board of Orth Carolina and employed by Depart TOLINA have inspected the part 4/24 is 8 r has constructed this part in accordance with the A inter the Inspector nor his employer makes any s Partial Data Report. Furthermore, neither any personal injury or property damage or a logent	on and Stress Report if the appurtenance is not <u>Authorization No.</u> NPT N-1151 (when applicable) Wilmington, N.C. Wilmington, N.C. wilmington, N.C. wilmington, N.C. Tof. Eng. State <u>Calif</u> Reg. No.18345 rof. Eng. State <u>Calif</u> Reg. No.18345 N of Boiler and Pressure Vessel inspectors <u>ment of Labor</u> of a pressure vessel described in this Land state that to the best of my knowledge ASME Code Section III. warranty, expressed or implied, concern- ther the inspector nor his employer pass of any kind arising from or connected
4/24 19 81 4/24 19 81 4/24 19 81 crificate of Authorization Expires_ CERTIFICA Design information on file at_ 22A5556, Rev. 1 Scress analysis report on file at_ 22A4912, Rev. 2 Design specifications certified by. Scress analysis report certified by. State of North Ca Partial Data Report on and belief, the NPT Certificate Holde By signing this certificate, set ins the part described in thi shall be liable in any manner for with this inspection.	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NEPC-Certificate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. NEPD-WHD-QA, Castle Hayne Rd., E. N. Sridhar Pr B. N. Sridhar Pr B. N. Sridhar Pr CERTIFICATE OF SHOP INSPECTION alid commission issued by the National Board of Orth Carolina and employed by Depart TOLINA have inspected the part 4/24 is 8 r has constructed this part in accordance with the A inter the Inspector nor his employer makes any s Partial Data Report. Furthermore, neither any personal injury or property damage or a logent	on and Stress Report if the appurtenance is not <u>Authorization No.</u> <u>NPT N-1151</u> (when applicable) Wilmington, N.C. <u>Wilmington, N.C.</u> wilmington, N.C. <u>Wilmington, N.C.</u> nof. Eng. State <u>Calif</u> Reg. No. <u>18345</u> nof. Eng. State <u>Calif</u> Reg. No. <u>18345</u> N of Boiler and Pressure Vessel Inspectors <u>tment of Labor</u> of a pressure vessel described in this . and state that to the best of my knowledge ASME Code Section III. warranty, expressed or implied, concern- ther the inspector mor his employer
4/24 19 81 4/24 19 81 4/24 19 81 crificate of Authorization Expires_ CERTIFICA Design information on file at 22A5556, Rev. 1 Stress analysis report on file at G 22A4912, Rev. 2 Design specifications certified by. Stress analysis report certified by. Stress analysis certificate by. Stress analysis report certified by. Stress analysis report certified by. Stress analysis certificate by.	asible for furnishing a separate Design Specification cification and Stress Report.) Signed <u>GE</u> , NEPD-WHD-QA By (NEPC-Certificate Holderr June 16, 1981 Certificate of TION OF DESIGN FOR APPURTENANCE , NEPD-WHD-QA, Castle Hayne Rd., E. NEPD-WHD-QA, Castle Hayne Rd., E. N. Sridhar Pr B. N. Sridhar Pr B. N. Sridhar Pr CERTIFICATE OF SHOP INSPECTION alid commission issued by the National Board of Orth Carolina and employed by Depart TOLINA have inspected the part 4/24 is 8 r has constructed this part in accordance with the A inter the Inspector nor his employer makes any s Partial Data Report. Furthermore, neither any personal injury or property damage or a logent	on and Stress Report if the appurtenance is not <u>Authorization No.</u> NPT N-1151 (when applicable) Wilmington, N.C. Wilmington, N.C. wilmington, N.C. wilmington, N.C. Tof. Eng. State <u>Calif</u> Reg. No.18345 rof. Eng. State <u>Calif</u> Reg. No.18345 N of Boiler and Pressure Vessel inspectors <u>ment of Labor</u> of a pressure vessel described in this Land state that to the best of my knowledge ASME Code Section III. warranty, expressed or implied, concern- ther the inspector nor his employer pass of any kind arising from or connected

- (	10/	7	71	

. •

This form, (E000 40) may be potsings from the Droer Dept ASTIC 346 E. 47th St. New York, N.Y. 10017

	<b>a</b>		-	N	Iominal	Corre	sion				
	Skell: Material ()										
5.	Sesma: Long_			н.т.'		_ R.T	•	_ Efficie	mcy		_ 7
	Giech			н.т. <sup>ч</sup>		R.T.		No. of	Courses		•
6.	ifendat (a) Mat										
	Location			Crown	Xauckle		Conical		spherical	Flat	Side te Pres
	(Tep, bottom,			-	Radius	Ratio	• •		edlus	Disseter	(Coav. or Coa
	(a)									<del></del>	
	(b)										• •••••
	If removable, b	otta 43	(Ma	terial, Spec. 1	No., T.S., Slz	e, Number)	Uther 141	icaing_	(Dee	cribe or sta	ch sketch)
7,	Jacket Closures	·					if boited, des				
	-	(Descri		adweid, bar, (	nte. If bergive	e dimension#,	, if boited, desc	ribe of th		eicht	
	•		1750				575	-	Charpy	Impact	[0
9.	Design pressure	e <sup>3</sup>	1250		psi a	•	3/3	°F	at cemp	• of	
	- 0 1 10 h-			••••••	<del>`</del>						
<b>C</b> 14	a 9 and 10 to be	compi		ibe sections	) 						
9.	Tube Sheets: S	tacional	y. Materis	4	Di	s	Thi	ickaess_	ia. A	tachment_	Welded, Bolted)
				(Kind & Sp	ec. No.)	(Subject to	pressure)				Welded, Bolted)
	F	loscing	. Materia	ا	Di	a	Thi	ckaess_	ia. At	tschment	
0.	Tubes: Materia	ul		0.D	ia. Thi	ickness		•. Num	ibet	Тур	(Str. or U)
											(307. 07.0)
C11	= 11-14 incl. to	be con	npleted to	f inner chan	abers of jac	keted vesse	els, or chann	els of he	ent exchan	gers.	· ·
		ind & Spi	ic. Xa.) (MI	In. of Range S	peci(led)	in. Allo					
	(K) Sezas: Long_	ind <b>b</b> Spi		T In, of Range S H.T. <sup>1</sup>	hickness _ pecilied)	in. Allo	vancein.	_ Efficie	псу		
2	(K) Sezas: Long_	ind & Spi		T in. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup>	hickness _ pecified)	in. Allon R.T	vancein,	_ Efficie _ No. of	Courses		_%
2	(K) Seams: Long_ Girth_	risl		T in. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup>	hickness _ pecified) _ T.S Knuckle	in. Allon R.T R.T Elliptical	vancein, 	_ Efficie _ No. of =  Hemu	Courses	T.S Flat	Side to Pres
Z. 3.	(Ki Seama: Long_ Girth_ Heads (a) Mate Location			H.T. <sup>1</sup> H.T. <sup>1</sup> H.T. <sup>1</sup> Crown Radius	hickness _ pecified) _ T.S Knuckie Redius	in. Allon R.T R.T Elliptical Ratio	vancein, 	_ Efficie _ No. of al Hemai Ri	Courses	T.S. Flat Diameter	Side to Pres
Z 3.	(Ki Seamas: Long_ Girth_ Heads (a) Macc		Thickness	T In. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> H. T. <sup>1</sup> Radius	hickness _ pecified) _ T.S Knuckie Redius	in. Allow R.T R.T Elliptical Ratto	vancein, 	_ Efficie _ No. of al Komu Ri	Courses	T.S. Flat Diameter	Side to Pres
Z 3.	(X) Seams: Long_ Girth_ Heads (a) Mate Location (a) Top, bottom	risl , ends	Thickness	T In. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Radius	hickness _ pecified) _ T.S Xnuckie Redius	in. Allon R.T R.T Elliptical Ratio	vancein, 	_ Efficie _ No. of al Hemin Ri	courses . spherical adlus	T.S Flat Diameter	_ % Side to Pres (Canv. or Car
Z. 3.	(X) Seams: Long_ Girth_ Heads (a) Mate Location (a) Top, bottom (b) Channel	risl , ends	Thickness	T In. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Radius	hickness _ pecified) _ T.S Xnuckie Redius	in. Allon R.T R.T Elliptical Ratio	vancein, 	_ Efficie _ No. of al Hemin Ri	courses spherical adlus (ening	T.S Flat Diameter  Describe or o	Side to Pres (Conv. or Con
3.	(X) Seams: Long_ Girth_ Heads (a) Mate Location (a) Top, bottom (b) Channel If removable, bo	rial , ends oles use	Thickness	T. T. S	hickness pecified)    Knuckie Redius  b)	in. Allow	vancein, (5) Materi Conical Apez Angle 	_ Efficie _ No. of al Kemu Ru Ru Ru Ru Ru Ru	courses spherical adius cening ( Drop W. Charpy	T.S. Flat Olameter Describe or of eight Impact	Side te Pres (Conv. or Cor 
3.	(X) Seams: Long_ Girth_ Heads (a) Mate Location (a) Top, bottom (b) Channel	rial , ends oles use	Thickness	T. T. S	hickness pecified)    Knuckie Redius  b)	in. Allow	vancein, 	_ Efficie _ No. of al Kemu Ru Ru Ru Ru Ru Ru	courses spherical adius cening ( Drop W. Charpy	T.S Flat Olameter  Describe or or cight	Side te Pres (Conv. or Cor 
Z. 3.	(Ki Seamas: Long Girth Heads (a) Mate Location (a) Top, bottom (b) Channel If removable, bu Design pressure	rial , ends olts use	Thickness	T	hickness pecified) Knuckle Rediue  b) psi at		vancein, (5) Materi Conical Apez Angle 	_ Efficie _ No. of al Kemu Ru Ru Ru Ru Ru Ru	courses spherical adius cening ( Drop W. Charpy	T.S. Flat Olameter Describe or of eight Impact	Side te Pres (Conv. or Cor 
Z. 3.	(X) Seams: Long_ Girth_ Heads (a) Mate Location (a) Top, bottom (b) Channel If removable, bo	rial , ends olts use	Thickness	T	hickness pecified) Knuckle Rediue  b) psi at		vancein, (5) Materi Conical Apez Angle 	_ Efficie _ No. of al Kemu Ru Ru Ru Ru Ru Ru	courses spherical adius cening ( Drop W. Charpy	T.S. Flat Olameter Describe or of eight Impact	Side te Pres (Conv. or Cor 
Z_ 3. 4.	(Ki Seamas: Long Girth Heads (a) Mate Location (a) Top, bottom (b) Channel If removable, bu Design pressure	risal , ends olts use = a omplete	Thickness cd (a)	Tin. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Radius	hickness pecified)  Knuckle Redius  b) psi at	in. Allow	vancein, (5) Materi Conical Apez Angle	_ Efficie _ No. of al Hemi Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri	courses	T.S. Flat Diameter Describe or of eight Impact	_ % Side to Pres (Conv. or Cor 
Z_ 3. 4. em 5.	(Ki Seamas: Long Girth _ Heads (a) Mate Location (a) Top, bottom (b) Channel If removable, bo Design pressure s below to be co	risal , ends olts use = a omplete	Thickness cd (a)	Tin. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Radius	hickness pecified)  Knuckle Redius  b) psi at	in. Allow	vancein, (5) Materi Conical Apez Angle	_ Efficie _ No. of al Hemi Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri	courses	T.S. Flat Diameter Describe or of eight Impact	_ % Side to Pres (Conv. or Cor 
Z_ 3. 4. <u>em</u> 5.	(Ki Seama: Long_ Girth_ Heads (a) Mate Location (2) Top, bottom (b) Channel If removable, bu Design pressure s below (a be co Safety Valve Of Nozzles: Purpose (Iniet,	ind a Spi rist , ends odts use  pomplete utlets:	Thickness Thickness ed (a) d for all v Number	H.T. <sup>1</sup> H.T. <sup>1</sup> H.T. <sup>1</sup> Crown Redlus	hickness pecified)  Knuckle Redius  b) b) psi au re applicable  Size	in. Allow	vancein, (5) Materi Conical Apez Angle C	_ Efficie _ No. of al Hemi Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri	courses spherical adlus cening Charpy at temp Reim	T.S. Flat Diameter Describe or of eight Impact of forcement	_ %
Z_ 3. 4. <u>em</u> 5.	(R) Seams: Long_ Girth_ Heads (a) Mate Location (a) Top, bottom (b) Channel If removable, bu Design pressure s below to be co Safety Valve On Nozzies:	ind a Spi rist , ends odts use  pomplete utlets:	Thickness cd (a)	Tin. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Radius	hickness pecified)  Knuckle Redius  b) b) psi au re applicable  Size	in. Allow	vancein, (5) Materi Conical Apez Angle C	_ Efficie _ No. of al Hemi Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri Ri	courses spherical adlus cening Charpy at temp Reim	T.S Plat Diameter  Describe or of eight Impact	_ 75 Side to Pres (Conv. or Cor 
2. 3. 4.	(Ki Seama: Long_ Girth_ Heads (a) Mate Location (2) Top, bottom (b) Channel If removable, bu Design pressure s below (a be co Safety Valve Of Nozzles: Purpose (Iniet,	ind a Spi rist , ends odts use  pomplete utlets:	Thickness Thickness ed (a) d for all v Number	Tin. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Radius Radius	hickness pecified) 		vancein, (5) Materi Conical Apez Angle C	_ Efficie _ No. of al Hemti Ri  Other fas	courses	T.S. Flat Diameter Describe or of eight Impact of forcement	_ 75 Side to Pres (Conv. or Cor 
2. 3. 4.	(Ki Seama: Long_ Girth_ Heads (a) Mate Location (2) Top, bottom (b) Channel If removable, bu Design pressure s below (a be co Safety Valve Of Nozzles: Purpose (Iniet,	ind a Spi rist , ends odts use  pomplete utlets:	Thickness Thickness ed (a) d for all v Number	Tin. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Radius Radius	hickness pecified) 		vancein, (5) Materi Conical Apez Angle C	_ Efficie _ No. of al Hemti Ri  Other fas	courses	T.S. Flat Diameter Describe or of eight Impact of forcement	_ 75 Side to Pres (Conv. or Cor 
2_ 3. 4.	(Ki Sezmas: Long Girth Heads (a) Mate Location (a) Top, bottom (b) Channel If removable, bu Design pressure s below to be co Safety Valve Of Nozzies: Purpose (Inies, Outles, Drain)	ind & Spi irisk , ends olts use callets:  	thickness Thickness d (a) d for all v Number	Tin. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Radius Radius Crown Crow	hickness pecified) _ T.S Knuckle Redius  b) b) b) b) b) psi at re applicabl . Size size	in. Allow	vancein, (5) Materi Conical Apez Angle C	_ Efficie _ No. of al Hemti Ri  Other fas	courses	T.S Flat Diameter 	_ 75 Side to Pres (Conv. or Cor 
2_ 3. 4.	(Ki Seamas: Long Girth Heads (a) Mate Location (a) Top, bottom (b) Channel If removable, bu Design pressure s below to be co Safety Valve Of Nozzles: Purpose (Iniet, Outlet, Drawn)  Inspection Mag	oles use	d (or all v Number	Tin. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Radius Crown (1) essels when Dia. or Siz	hickness pecified) _ T.S Knuckle Redius  b) b) b) psi au re applicable Size e Typ	in. Allow	vancein, (5) Nateri Conicat Apes Angle C	_ Efficie _ No. of al	Courses	T.S. Plat Diameter Describe or of eight Impact of forcement kerial	_ 78 Side te Pres (Conv. or Cor
2 3. 4. <u>em</u> 5. 6.	(Ki Sezmas: Long Girth Heads (a) Mate Location (a) Top, bottom (b) Channel If removable, bu Design pressure s below to be co Safety Valve Of Nozzles: Purpose (Iniet, Outlet, Drain)  Inspection Mai Openings: Hai	ind a Spi irial , ends obts use = 3 complete autlet s:  holes , maholes ,	Thickness Thickness d (a) d (or all v Number water No	Tin. of Range S H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Radius Radius Dia. or Siz	hickness pecified) _ T.S Knuckle Redius  b) b) b) b) b) b) b) psi at re applicable Size ize	in. Allow	vancein, (5) Nateri Conicat Apes Angle C	_ Efficie _ No. of al Hemin Ri  Other fas	courses	T.S. Plat Diameter Describe or of eight Impact	_ 78 Side te Pres (Conv. or Cor
2_ 3. 4. em 5. 5. 5.	(Ki Sezmas: Long Girth Heads (a) Mate Location (a) Top, bottom (b) Channel If removable, bu Design pressure s below to be co Safety Valve Of Nozzles: Purpose (Iniet, Outlet, Drain)  Inspection Mai Openings: Hai	ind & Spi irisl , ends olts use s omplete utlets: N  holes, ndholes, ndholes,	Thickness Thickness ed (a) d for all v Number water No No	Tin. of Range Si H. T. <sup>1</sup> H. T. <sup>1</sup> Crown Redius Redius Crown Crown Redius Dia. or Siz Si Si Si Si	hickness pecified) _ T.S Knuckle Redius  b) b) b) b) psi au re applicabl Size size ize		vancein, (5) Materi Conical Apes Angle C _C	_ Efficie	courses	T.S Flat Diameter 	- 75 Side-te Pres (Conv. or Cor 

		REPORT NO. P0059-009
		SUGGE 4 GI 4
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPO As required by the Provision of the ASI	RT FOR NUCLEAR PART AND APPURTENANCES $1/2$ ME Code Rules. Section III. Div. I $(18(3-637))$
		( 26 of 46)
		address of NPT Certificate Holders
(b) Ma	miscured for General Electric Company, Sa	n Jose, California (NEEG)
	(Hame and address of N Co A E C	rtificate Holder for completed miclear component) 00
, Identif	Ication-Certificate Holder's Serial No. of Part	
•	paserscred According to Drawing No. 768E534G001	
(b) D	escription of Part Inspected Control Rod D	
(c) A	pplicable ASME Code: Section III, Edition_1974, Adde	N207 mda daseW'75 Case No. 1361-2 Class1
J.	Cap 166B9274P1	0
·	(167A2343)	Code suntda 11
	SA182 - F316 3/8 thick x 1 1/16 0D	Code weld PSOYP102
	alo miter y i ilig an	
~	toldentes Ales Jacobaran	
2.	Indicator Pipe 16689313P1	
	SA312-TP316 3/4 sch 40-seamless pipe	
	0.113 wall thickness	
	1.065 max. dia.	
	• · ·	Reactor vessel
7	Plug 159A1176P1	thimble
•••	SA182-F304	
•	1/4 thick x 0.812 0D	
	•	
£.	Flange_919D610P1 (719E474)	Code weld
40	SA182-F304	-RESOVPTO2
	3.37 thick x 9 5/8 0D	
	neck 1 1/16 thick x 5.0 00	
•	2.875 ID	WIGHLENNY
5.	Base 137C5311P1	
•	XM-19 ASME SA479	ूर्भा । । मन्
•	3.0 OD x .884 ID -	Child 1
		V/3-4-1
6.	Ring Flange 11485122P2	
	SA182-F304	L-Code weld
	1" thick x 5.0 OD x 1.75 ID	P50YP102
7	Fan Song, 1176453 000	••
1.	Cap Screw 117C4516P2 SA193-86	CONTROL ROD DRIVE
	6 ea. 1/2 dia. on 4 1/8 bolt circle	DWG - 768E534
8.	Plug 17577961P1	9. Nut 137C5934P1
••	SA182-F304	XM-19 SA479
	0.38 thick x 1.307 dia.	
	0.38 thick x 1.307 dia.	00357

.

. ....

J. z		••••	B13 1	F5f2 Sheet	l of 2
• -	PT CERTIFICATE HOLDER: As required by the Provi		Code Rules, Section		
(a) Manufactured by_	General Electric C	Company, Castl	e Hayne Rd.,	Wilmington, N	.C
(b) Manufactured for	General Electric C				
the set of	(Kame ate Holder's Serial No. of Part	and address of N Cartific	ate Holder for completed	nuclear component)	
(a) Constructed Acc	ording to Drawing No	2534G001. Dri	wing Prepared by_	D. L. Peter	501 <u></u>
(b) Description of P	art Inspected Control	Rod Drive, Mo	del #7RDB144D	G001	
	Coder Section III, Edition				1.
Remarka: Standa:	rd part for use with	n Reactor, Hy	drostatically	tested at 18	20 psi.
	(Brief desc	ription of service for	which component was	designed)	
* Total	number of sheets -	2			
			· · · · · · · · · · · · · · · · · · ·		
he applicable Design Sp te Holder for appurtent cluded in the component	astruction of the ASME Code pecification and Stress Report inces is responsible for furnish at Design Specification and S	are not the responsi hing a separate Desi Stress Report.)	· •	rtificate Holder for p Stress Report if the	arts. An NPT Certi appurtenance is a
te applicable Design Sp te Holder for appurtens tuded in the component 6/12	pecification and Stress Report specification and stress responsible for furnish and Design Specification and s 	are not the responsi bing a separate Desi Siress Report.) NEPD-WMD- GOT Certificate Holders	bility of the NPT Ce gr Specification and By	rtificate Holder for p Stress Report if the Motelenan	arts. An NPT Certi appurtenance is a
te applicable Design Spite te Holder for appartens ituded in the componen 	pecification and Stress Report ances is responsible for furnish at "Design Specification: and &	are not the responsi hing a separate Desi Siress Report.3 NEPD-WMD- OUT Certificate Holders , 1981	bility of the NPT Ce ga Specification and By Certificate of Author	rtificate Holder for p Stress Report if the <i>Motification</i> orization No. <u>NPT</u>	arts. An NPT Certi appurtenance is a
be applicable Design Sparten te Holder for apparten cluded in the componen <u>the 6/12</u> crtificate of Authorizat	pecification and Stress Report Inces is responsible for furnish in Design Specification and S 	are not the responsi hing a separate Desi Stress Report.3 NEPD-WMD- GOT Certificate Holders , 1981	bility of the NPT Ce ga Specification and By Certificate of Author RTENANCE (when	rtificate Holder for p Stress Report if the <i>Motification</i> orization No. <u>NPT</u>	arts. An NPT Certi appurtenance is a 
te applicable Design Sp te Holder for appurtent cluded in the component the <u>6/12</u> crtificate of Anthorizat	certification and Stress Report inces is responsible for furnish in Design Specification and S 	are not the responsi hing a separate Desi Stress Report.3 NEPD-WMD- GOT Certificate Holders , 1981	bility of the NPT Ce gr Specification and By Certificate of Author RTENANCE (when ayne Rd., Wiln	rtificate Holder for p Stress Report if the <i>Utotedenne</i> prization No. <u>NPT</u> a spplicable)	arts. An NPT Certi appurtenance is a 
be applicable Design Spartens the Holder for appartens thuded in the component me	pecification and Stress Report Incces is responsible for furnish at Design Specification and S 	are not the responsi hing a separate Desi Stress Report.3 NEPD-WMD GOT Certificate Holder , 1981 SGN FOR APPUE -OA, Castle Ha , San Jose, Ca	bility of the NPT Ce gr Specification and By Certificate of Author RTENANCE (when ayne Rd., Wiln allif.	rtificate Holder for p Stress Report if the <i>Utotedenne</i> prization No. <u>NPT</u> a spplicable)	N-1151
be applicable Design Spite Holder for appartent tuded in the component me	pecification and Stress Report Incces is responsible for furnish at Design Specification and 8 	are not the responsi hing a separate Desi Stress Report.3 NEPD-WMD GGT Certificate Holders , 1981 SGN FOR APPUF -OA, Castle Ha , San Jose, Ca idhar	billity of the NPT Ce gr Specification and By Certificate of Author RTENANCE (when ayne Rd., Wilm allif. Prof. En	rtificate Holder for p Stress Report if the Motification No. NPT a spplicable) nington, N.C.	N-1151
be applicable Design Spite Holder for appartent ituded in the component me	pecification and Stress Report naces is responsible for furnish nt Design Specification and S 	are not the responsi hing a separate Desi Stress Report.3 NEPD-WMD GGT Certificate Holders , 1981 SGN FOR APPUF -OA, Castle Ha , San Jose, Ca idhar	bility of the NPT Ce gr Specification and By Certificate of Author RTENANCE (when ayne Rd., Wiln alif. Prof. En Prof. En	rtificate Holder for p Stress Report if the Motification No. NPT a spplicable) tington, N.C.	N-1151
be applicable Design Spite Holder for appartent ituded in the component me	pecification and Stress Report naces is responsible for furnish nt Design Specification and S 	are not the responsi hing a separate Desi Siress Report.3 NEPD-WMD OUT Certificate Holders , 1981 SGN FOR APPUF -OA, Castle Ha , San Jose, Ca idhar idhar	bility of the NPT Ce gr Specification and By Certificate of Author RTENANCE (when ayne Rd., Wiln alif. Prof. En Prof. En INSPECTION ional Board of Boil	rtificate Holder for p Stress Report if the <u>Motechenne</u> orization No. <u>NPT</u> a applicable) <u>mington. N.C.</u> g. Scate <u>Callf</u> F g. Scate <u>Callf</u> F er and Pressure Ver	arts. An NPT Certi sppurtenance is a N-1151 
be applicable Design Sp te Holder for appartent inded in the component me	pecification and Stress Report naces is responsible for furnish nt Design Specification and S 	are not the responsi hing a separate Desi Siress Report.3 NEPD-WMD GOT Certificate Holders , 1981 IGN FOR APPUE -OA, Castle Ha -OA, Castle Ha -OA, Castle Cast -OA, Castle Ha -OA, Castle	bility of the NPT Ce gr Specification and By Certificate of Author RTENANCE (when ATENANCE (when ATENANC	rtificate Holder for p Stress Report if the <u>Motification No.</u> <u>NPT</u> a applicable) <u>rington, N.C.</u> s. State <u>Calif</u> F. State <u>Calif</u>	Reference in a Reference in a N-1151 ( reference in a N-1151 ( reference in a ( reference in a (
he applicable Design Spite Holder for appartent the Holder for appartent the G/12 me	pecification and Stress Report naces is responsible for furnish at Design Specification and S 	are not the responsi hing a separate Desi Stress Report.3 NEPD-WMD UQTT Certificate Holders , 1981 SGN FOR APPUF -OA, CastTe Hz , San Jose, Ca idhar idhar idhar icATE OF SHOP a issued by the Nate ma_ and employe for employe for employe for employe for employe for employe for employe a Report. Furthe	bility of the NPT Ce gr Specification and By Certificate of Author RTENANCE (when ATENANCE (when ATENANC	rtificate Holder for p Stress Report if the Motification No. NPT orization No. NPT a applicable) tington, N.C. g. State <u>Calif</u> F g. State <u>Calif</u> F g. State <u>Calif</u> F g. State <u>Calif</u> F oressure vessel des tate that to the best of Code Section III. try, expressed or im. try, expressed or im.	arts. An NPT Certi appurtenance is a N-1151
he applicable Design Sp te Holder for appartents iluded in the component me	pecification and Stress Report maces is responsible for furnish at Design Specification and & 	are not the responsi hing a separate Desi Stress Report.3 NEPD-WMD UQTT Certificate Holders , 1981 SGN FOR APPUF -OA, CastTe Hz , San Jose, Ca idhar idhar idhar icATE OF SHOP a issued by the Nate ma_ and employe for employe for employe for employe for employe for employe for employe a Report. Furthe	bility of the NPT Ce gr Specification and By Certificate of Author RTENANCE (when ATENANCE (when ATENANC	rtificate Holder for p Stress Report if the Motification No. NPT orization No. NPT a applicable) tington, N.C. g. State <u>Calif</u> F g. State <u>Calif</u> F g. State <u>Calif</u> F g. State <u>Calif</u> F oressure vessel des tate that to the best of Code Section III. try, expressed or im. try, expressed or im.	arts. An NPT Certi sppurienance is a N-1151

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

.

.t. ,

. .

1 . . Our

....

.

•\_

<ol> <li>Seams: Long Girth</li> <li>Heads: (a) M Locati (Top, bottoo (a)</li></ol>	ncl. to be com	pleted for sin					, or shells of her	n exchanger	8,
Girth 6. Heads: (a) M Locati (Top, botton (b) (b) If removable, 7. Jacket Closus 8. Design pressus tems 9 and 10 to 9. Tube Sheets: 0. Tubest Materi 1. Shell: Materi (a) Top, botto (b) Channel If removable, 4. Design pressus tems below to be 5. Safety Valve 6. Nozzles: Purpose (Inter Outlet, Drain) 7. Inspection: M Qpenings: H	Material (Kind <b>b</b> S	T.S.		minal tickness peculied)	Corro in. Allov	sion reace	Di it i	a. Length_	ft in
6. Heads: (a) M Local (Top, bottor (a) (b) If removable, 7. Jacket Closue 8. Design presse tems 9 and 10 to 9. Tube Sheets: 0. Tubest Mater 2. Seamst Long Girth 3. Heads (a) Ma Local (a) Top, botto (b) Channel If removable, 4. Design presse tems below to be 5. Safety Valve Outlet, Drain Outlet, Drain Coulor, Drain	Long	H.	.T.'		_ R.T		Efficiency		. %
Local (Top, bottor (a)	Ginth	н	.T. <sup>1</sup>	····	_ R.T		No. of Courses		
<ul> <li>(a)</li></ul>	Location		Crewe	Knuckle	Elliptical	Conical	Hemispherical	Flat	Side to Press
If removable, If removable, Jacket Closur B. Design presse tems 9 and 10 to 9. Tube Sheets: 0. Tubest Mater tems 11-14 incl. 1. Shell: Materi (a) Top, batto (b) Channel If removable, (a) Top, botto (b) Channel If removable, 4. Design presse tems below to be 5. Safety Valve 6. Nozzles: Purpose (Inter Outlet, Drain) 7. Inspection: M Qpenings: H	, bottom, ends)			Radius	Racio	Apez Angle	Redive	Diameter	(Canv. or Cone
<ol> <li>Jacket Closus</li> <li>Design presss</li> <li>Design presss</li> <li>Tube Sheets:</li> <li>Tubes: Materian</li> <li>Tubes: Materian</li> <li>Shellt Materian</li> <li>Seams: Long</li> <li>Girth</li> <li>Heads (a) Materian</li> <li>Heads (a) Materian</li> <li>Top, botto (b) Channel If removable,</li> <li>Design presss</li> <li>Safety Valves</li> <li>Nozzles: Purpose (Inter Outlet, Drain)</li> <li>Taspection Materian</li> </ol>									
<ul> <li>8. Design presser</li> <li>10 to</li> <li>9. Tube Sheets:</li> <li>0. Tubest Materian</li> <li>1. Shellt Materian</li> <li>1. Shellt Materian</li> <li>2. Seamst Long</li> <li>Girth</li> <li>3. Heads (a) Materian</li> <li>(a) Top, botton</li> <li>(b) Channel If removable,</li> <li>4. Design presser</li> <li>tems below to be</li> <li>5. Safety Valve</li> <li>6. Nozzles:</li> <li>Purpose (Inter Outlet, Drain)</li> <li>7. Inspection: Materian</li> </ul>	rable, bolts us	(Meter	riel, Spec. N	0., T.S., 3120	r, Number)	Other fast	ening(Des	cribe or sttac	h sketch)
ems 9 and 10 to 9. Tube Sheets: 0. Tubest Materi ems 11-14 incl. 1. Shellt Materi (2. Seamst Long Girth 3. Heads (a) Ma Locast (a) Top, botto (b) Channel If cemovable, 4. Design press ems below to be 5. Safety Valve 6. Nozzles: Purpose (Inter Outlot, Drain) 7. Inspection: M Qpenings: H	Closurer	he se oree and	weld has a	c. If has size	dimensions	if bolted, descr	(he or skatch)		
ems 9 and 10 to 9. Tube Sheets: 0. Tubest Materi tems 11-14 incl. 1. Shell: Materi (2. Seamst Long Girth 3. Heads (a) Ma Locast (a) Top, botto (b) Channel If cemovable, 4. Design press tems below to be 5. Safety Valve 6. Nozzles: Purpose (Inter Outlot, Drain) 7. Inspection: M Qpenings: H	(Descin				otness stores	H DOLLARD GENET	Drop W	-	
<ol> <li>9. Tube Sheers:</li> <li>0. Tubest Materian</li> <li>tems 11-14 incl.</li> <li>1. Shell: Materian</li> <li>(a) Top. Seams: Long</li> <li>Girth</li> <li>3. Heads (a) Materian</li> <li>(b) Channel</li> <li>1f removable,</li> <li>4. Design pressure</li> <li>tems below to be</li> <li>5. Safety Valve</li> <li>6. Nozzles:</li> <li>Purpose (Inter Outlet, Drain)</li> <li>7. Inspection: M Qpenings: H</li> </ol>	pressure <sup>2</sup>	1250		psi sc		575	_°F at temp		fe•  0
<ol> <li>9. Tube Sheers:</li> <li>0. Tubest Materian</li> <li>tems 11-14 incl.</li> <li>1. Shell: Materian</li> <li>(a) Top. Seams: Long</li> <li>Girth</li> <li>3. Heads (a) Materian</li> <li>(b) Channel</li> <li>1f removable,</li> <li>4. Design pressure</li> <li>tems below to be</li> <li>5. Safety Valve</li> <li>6. Nozzles:</li> <li>Purpose (Inter Outlet, Drain)</li> <li>7. Inspection: M Qpenings: H</li> </ol>									······
0. Tubest Mater tems 11-14 incl. 1. Shellt Materi (2. Seamst Long Girth 3. Heads (a) Ma Locati (a) Top, botto (b) Channel If removable, 4. Design pressu tems below to be 5. Safety Valve 6. Nozzlest Purpose (Inter Outlot, Drain) 7. Inspection: M Qpeningst H						<u></u>			
0. Tubest Mater tems 11-14 incl. 1. Shellt Materi (2. Seamst Long Girth 3. Heads (a) Ma Locati (a) Top, botto (b) Channel If removable, 4. Design pressu tems below to be 5. Safety Valve 6. Nozzlest Purpose (Inter Outlot, Drain) 7. Inspection: M Qpeningst H	lects: Stations	ry. Material_	Kind b Son	Dis	(Subject te	Thic	knessia, A	tschment	Velded, Boltad)
tems 11-14 incl. 1. Shellt Materi 2. Seamst Long Girth 3. Heads (a) Ma Locati (a) Top, botto (b) Channel If removable, 4. Design pressu tems below to be 5. Safety Valve 6. Nozzlest Purpose (Inter Outlet, Drain) 7. Inspection M Qpeningst H									
tems 11-14 incl. 1. Shellt Materi 2. Seamst Long Girth 3. Heads (a) Ma Locati (a) Top, botto (b) Channel If removable, 4. Design pressu tems below to be 5. Safety Valve 6. Nozzlest Purpose (Inter Outlet, Drain) 7. Inspection M Qpeningst H	Material	je materiat.,	0.D.	in Thi	ckness	inches-	Number	Туре	
<ol> <li>Shell: Materi (2)</li> <li>Seams: Long Girth</li> <li>Heads (a) Ma Locati (a) Top, botto (b) Channel If removable,</li> <li>Design pressu tems below to be</li> <li>Safety Valve</li> <li>Nozzles: Purpose (Inter Outlet, Drain)</li> <li>Inspection: M Qpenings: H</li> </ol>		•							(Str. or U)
<ol> <li>Shell: Materi Girth Girth</li> <li>Heads (a) Ma Locati (a) Top, botto (b) Channel If removable,</li> <li>Design pressu tems below to be</li> <li>Safety Valve Nozzles: Purpose (Inter Outlot, Drain)</li> <li>Inspection: M Qpenings: H</li> </ol>	incl. to be co	apleted for i	naer cham	bers of jac	keted vesse	ls; or channe			
Girch 3. Heads (a) Ma Locati (a) Top, botto (b) Channel If removable, 4. Design pressu iems below to be 5. Safety Valve 6. Nozzles: Purpose (Inter Outlot, Drain) 	(Kind & Sp	T.S Hec. No.) (Min.	Th of Renge Sp	ecified)	_in. Allow	•		-	
<ul> <li>Heads (a) Ma <ul> <li>Locati</li> <li>(a) Top, botto</li> <li>(b) Channel</li> <li>If removable,</li> </ul> </li> <li>4. Design pressure <ul> <li>tems below to be</li> </ul> </li> <li>5. Safety Valve <ul> <li>Nozzles:     <ul> <li>Purpose (Inter Outlet, Drain)</li> </ul> </li> <li>7. Inspection: M <ul> <li>Qpenings: H</li> </ul> </li> </ul></li></ul>							• - ·		
Locati (a) Top, botto (b) Channel If removable, 4. Design pressu tems below to be 5. Safety Valve 6. Nozzles: Purpose (Inter Outlet, Drain) 7. Inspection M Qpenings: H							No. of Courses.		
<ul> <li>(a) Top, botto</li> <li>(b) Channel</li> <li>If removable,</li> <li>4. Design pressure</li> <li>4. Design pressure</li> <li>5. Safety Valve</li> <li>5. Safety Valve</li> <li>6. Nozzles:</li> <li>Purpose (Inlet Outlot, Drain)</li> <li>7. Inspection: M Openings: H</li> </ul>	(a) Material		Crown						Jide to Press
<ul> <li>(b) Channel If removable,</li> <li>4. Design pressures</li> <li>tems below to be</li> <li>5. Safety Valve</li> <li>6. Nozzlest Purpose (Inter Outlet, Drain)</li> <li>7. Inspection: M Qpenings: H</li> </ul>	Location	Thickness	Radius	Rediue		Apez Angle	Redius	Diameter	(Conv. or Conc
<ul> <li>4. Design pressures to be t</li></ul>	nnei								
<ul> <li>4. Design pressures to be t</li></ul>	rable, bolts us	ed (a)	(b	)	(c)	ò	her fastening		
<ul> <li>Safety Valve</li> <li>Safety Valve</li> <li>Nozzlest</li> <li>Purpose (Inter Outlet, Drain)</li> <li>T. Inspection M Qpenings: H</li> </ul>							Drop W	eight	
<ul> <li>tems below to be</li> <li>Safety Valve</li> <li>Nozzlest</li> <li>Purpose (Inter Outlet, Drain)</li> <li>Inspection M Openings: H</li> </ul>							Charpy	Impact	(r-i
5. Safety Valve 6. Nozzles: Purpose (Inlei Ouster, Drein) 	pressure			psi at	·	<u></u>	_°F at temp	• et	°
6. Nozzles: Purpose (Inter Outlet, Drein) 7. Inspection M Qpenings: H	to be complete	ed for all ves	sels where	e applicabl	e				
6. Nozzles: Purpose (Intel Outlet, Drein) 	Valve Outlets:	Number		Size	L	ocacion			
Outles, Drain)			-					•	
Openings: H		Number	Dis. or Size	• Тур	e Mat	erial Thi		(arcement scorial	Hew Attached
Openings: H									
Openings: H								-	
Openings: H				_ ·	-				
		No-							
	ioa Manholes,			ze	Loca	icion			
	ion Manholes, 55: Handhole: Threaded,	s, No	Si	ze	Loca				
If Postweld H	ion Manholes ss: Handhole Threaded s: Skirt (Yes	s, No , No , or No)	Si	ze	Loca				

	REPORT NO. P0059-009
	Sheet 2 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT F	16.13
	Code Rules, Section III, Div. 1/1813-037
As required by the Provision of the ASME C	
	28 04 46
(a) Manufactured by General Electric Company, Castle	Havne Rd., Wilmington, N.C.
(Name and address	s of NPT Certificate Holder)
(b) Massafactured for General Electric Company, San Jo	ose, California (NEBG)
A5451	te Holder for completed nucleur component)
Identification-Certificate Holder's Serial No. of Part	Nat'l Bd. No
(a) Constructed According to Drawing No. 768E534G001_Dray	wing Prepared by
(b) Description of Part Inspected Control Rod Drive	e, Model #7RDB144DG001
	N207
(c) Applicable ASME Code: Section III, Edition, Addendad	are_ <u>n_/J</u> Case No. <u>1301-2</u> Class <u>1</u>
1. Cap 166B9274P1	
(167A2343)	
SA182 - F316	Code weld
3/8 thick x 1 1/16 0D	P50YP102
A t-Hackey Block Terpentent	
2. Indicator Pipe 166E9313P1	
SA312-TP316	
3/4 sch 40-seamless pipe	
0.113 wall thickness '	
1.065 max. dia.	Reactor vessel
• ·	thimble
3. PTug 159A1176P1	
SA182-F304	
1/4 thick x 0.812 0D	
17 WIICK & V.OIC VU	
4. Flange 919D610P1 (719E474)	Code weld
.SA182-F304	
3.37 thick x 9 5/8 00	
neck 1 1/16 thick x 5.0 0D	TANKA KANY
2.875 ID	
5 Daga 1976531351	
5. Base 137C5311P1	
XM-19 ASME SA479	
3.0 OD x .884 ID -	
	V/ 31-42
6. Ring Flange 11485122P2	
SA182-F304	Code weld
I" thick x 5.0 0D x 1.75 ID	P50YP102
	1 4411 1 4m
7. Cap Screw 117C4516P2	· · ·
SA193-B6	CONTROL ROD DRIVE
6 ea. 1/2 dia. on 4 1/8 bolt circle	DHG - 768E534
weak it and all the build chick	,
	9. Nut 137C5934P1
8. Plug 175A7961P1	3. NHE IS/CS954PI M-19 SA479
SA182-F304	1.30 thick x 2.62 dia.
0.38 thick x 1.307 dia.	TOJY LILLE & 2006 LEG.
	0.0~~~
	00552

.

:

:

.

.

85

٠

-

	REPORT NO. P0059-009
	Sheet 1 of 2
	ales. Section 111. Div. 1/1813-0375
	2 29 08 46 ]
Manufactured by General Electric Company, Castle Hay	ne Rd., Wilmington, N.C.
(b) Meanfactured for General Electric Company, San Jose,	California (NEBG)
(Name and address of N Certificate Holder's Serial No. of Part A4218	
(a) Constructed According to Drawing No Drawing Po	repared by D. L. Patarson
Control Rod Durine Model #	
(b) Description of Part Inspected Control and Prive, children P (c) Applicable ASME Codet Section III, Edition Addenda date	N207 1361-2 1 Case No. 1
Remarker Standard part for use with Reactor. Hydrost	
(Brief description of service for which co	mpenent was designed)
* Total number of sheets - 2	e provincia de la companya de la com
	· · ·
er to the rules of construction of the ASME Code Section III. - applicable Design Specification and Stress Report are not the responsibility of - Holder for appurtenances is responsible for furnishing a separate Design Speci- uded in the component Design Specification and Stress Report.)	the NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appurtenance is not
to the rules of construction of the ASME Code Section III.     applicable Design Specification and Stress Report are not the responsibility of     Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.)      12/30 19 80 Signed GE, NEPD-W2D-QA      UNPT Certificate Holder:	the NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appurtenance is not 
12/30       19       80       Signed       GE, NEPD-W2D-QA         (NPT Certification Expires	the NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appurtenance is not By
In the construction of the ASME Code Section III.         expolicable Design Specification and Stress Report are not the responsibility of Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.)         12/30 19 80 Signed       GE, NEPD-WeD-QA         UNPT Certification Expires         June 16, 1981         CERTIFICATION OF DESIGN FOR APPURTENA	The NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appartenance is not By
The raises of construction of the ASME Code Section IIL applicable Denign Specification and Stress Report are not the responsibility of Holder for appurtenances is responsible for furnishing a separate Design Speci- ided in the component Design Specification and Stress Report.) <u>12/30 19 80 Signed GE, NEPD-WAD-QA</u> UNFT Certificate Holdern ifficator of Authorization Expires June 16, 1981 Certific CERTIFICATION OF DESIGN FOR APPURTENA Design information on file of CE, NEPD-WAD-QA, Castle Hayne R	The NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appartenance is not By
to the rules of construction of the ASME Code Section III. spolicable Design Specification and Stress Report are not the responsibility of Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.) <u>12/30 19 80 Signed GE, NEPD-W2D-QA</u> UNFT Certificate Holder: June 16, 1981 Certific CERTIFICATION OF DESIGN FOR APPURTENA GE, NEPD-W2D-QA, Castle Hayne R 22A5556, Rev. 1	The NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appurtenance is not By
to the rules of construction of the ASME Code Section IIL. applicable Design Specification and Stress Report are not the responsibility of Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.) <u>12/30 19 80 Signed GE, NEPD-W4D-QA</u> UNPT Certificate Holder: June 16, 1981 Certific CERTIFICATION OF DESIGN FOR APPURTENA GE, NEPD-W4D-QA, Castle Hayne R 22A5556, Rev. 1 GE, NEPD-W4D-QA, Castle Hayne R 22A4912, Rev. 2	The NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appurtenance is not By
<pre>st to the rules of construction of the ASME Code Section IIL. soplicable Design Specification and Stress Report are not the responsibility of Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.) </pre>	The NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appartenance is not By
to the rules of construction of the ASME Code Section IIL. applicable Design Specification and Stress Report are not the responsibility of Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.) <u>12/30 19 80 Signed GE, NEPD-W2D-QA</u> UNPT Certificate Holder: June 16, 1981 Certificate Holder: GE, NEPD-W2D-QA Certific CERTIFICATION OF DESIGN FOR APPURTENA esign information on file at GE, NEPD-W2D-QA, Castle Hayne R 22A5556, Rev. 1 tress analysis report on file at <u>GE, NEPD-W2D-QA</u> , Castle Hayne 22A4912, Rev. 2 esign specifications certified by <u>B. N. Sridhar</u>	The NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appurtenance is not By
to the rales of construction of the ASME Code Section IIL. spolicable Design Specification and Stress Report are not the responsibility of Holder for appurtenances is responsible for furnishing a separate Design Specification ded in the component Design Specification and Stress Report.) <u>12/30 19 80 Signed GE, NEPD-W2D-QA</u> UNPT Certificate Holder: June 16, 1981 Certificate Holder: GE, NEPD-W2D-QA, Castle Hayne R CERTIFICATION OF DESIGN FOR APPURTENA esign information on file at <u>GE</u> , NEPD-W2D-QA, Castle Hayne R 22A5556, Rev. 1 tress analysis report on file at <u>GE</u> , NEPD-W2D-QA, Castle Hayne 22A4912, Rev. 2 esign specifications certified by <u>B. N. Sridhar</u> tress analysis report certified by <u>B. N. Sridhar</u> CERTIFICATE OF SHOP INSPE I, the undersigned, holding a valid commission issued by the Nacional Be	The NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appartenance is not By
to the reles of construction of the ASME Code Section III. applicable Design Specification and Stress Report are not the responsibility of Holder for apputtenances is responsible for furnishing a separate Design Speci- ded in the component Design Specification and Stress Report.) <u>12/30 19 80 Signed GE, NEPD-WAD-QA</u> UNPT Ceruficate Holder: June 16, 1981 Cerufices Holder: GE, NEPD-WAD-QA, Castle Hayne R esign information on file as <u>GE</u> , NEPD-WAD-QA, Castle Hayne R 22A5556, Rev. 1 rress analysis report on file as <u>GE</u> , NEPD-WAD-QA, Castle Hayne 22A4912, Rev. 2 esign specifications certified by <u>B. N. Sridhar</u> ress analysis report certified by <u>B. N. Sridhar</u> <u>CERTIFICATE OF SHOP INSPE</u> I, the undersigned, holding a valid commission issued by the National Bad/or the Scare of Province of <u>North Carolina</u> and employed by <u>De</u> <u>State of North Carolina</u> have inspected the	The NPT Certificate Holder for parts. An NPT Certif- ification and Stress Report if the appartenance is not By
st to the rales of construction of the ASME Code Section II. applicable Design Specification and Stress Report are not the responsibility of Holder for appurtenances is responsible for furnishing a separate Design Speci- ided in the component Design Specification and Stress Report.) <u>12/30 19 80 Signed GE, NEPD-WMD-QA</u> UNT Certificate Holder ifficate of Authorization Expires June 16, 1981 Certific CERTIFICATION OF DESIGN FOR APPURTENA Design information on file at GE, NEPD-WMD-QA, Castle Hayne R 22A5556, Rev. 1 gress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar certificate of North Carolina and employed by De if state of North Carolina have inspected the artial Data Report on <u>12/30</u> at helder, the NTC certificate Holder has constructed this part in accordance with By signing this certificate Holder has constructed this part in accordance with By signing this certificate Holder has constructed this part in accordance with By signing this certificate Holder has constructed this part in accordance with By signing this certificate Holder has constructed this part in accordance with By signing this certificate Holder has constructed the sport on this employed to and bell be liable in any manner for any personal injury or property damage of the State described to this Partial Data Report, Surdena and employed to any personal injury or property damage of State described to this Partial Data Report of any personal injury or property damage of State described to this Partial Data Report of the sport damage of State described to this Partial Data Report of the sport damage of State described to this Partial Data Report of the sport damage of State described to this Partial Data Report of the sport damage of the sport dam	The NPT Certificate Holder for parts. An NPT Certif- fication and Stress Report if the appartemance is not By
In the rales of construction of the ASME Code Section III. - applicable Design Specification and Stress Report are not the responsibility of - applicable Design Specification and Stress Report.) 	The NPT Certificate Holder for parts. An NPT Certification and Stress Report if the appartenance is not By
Lificate of Authorization ExpiresJune 16, 1981Certific CERTIFICATION OF DESIGN FOR APPURTENA GE, NEPD-WMD-QA, Castle Hayne R 22A5556, Rev. 1 Scress analysis report on file at GE. NEPD-WMD-QA, Castle Hayne 22A4912, Rev. 2 Design specifications certified byB. N. Sridhar Scress analysis report certified byB. N. Sridhar CERTIFICATE OF SHOP INSPE I, the undersigned, holding a valid commission issued by the National Bound of the Scate of Province of <u>North Carolina</u> and employed by <u>Design</u> State of North Carolina and employed by <u>Design</u> inspected the Partial Data Report on <u>12/30</u>	The NPT Certificate Holder for parts. An NPT Certification and Stress Report if the appartenance is not By

: .

-----

(10/77)

This form, 16000 400 may colorations from the Droor Depth ASME, 245 E. 47th St., New York, N.Y. 10017

lter	15 4- <del>8</del> l	incl. to be	complet	ed for sin	rie wail v	essels, iac	ckets of jacl	keted vessels	, or shells of her	it exchanger	5.
4.	Stell:	Marerial (Xi	nd b Spec.	 No.) (Min.	T1	ominal Nickness pectfled)	Corro ia. Allow	sion rancein.	Dia fr i	n. Length_	(c in.
5.	Sexas:	. Long		ม.	т.'		_ R.T		Efficiency		%
		Ginh		н.	T.'		_ R.T		No. of Courses		
6.	Hends								ul		
	(Top	Location , bollom, e	ndə) T	hicknese	Crown Radius	Knuckie Radius	Elliptical Ratio	Conicai Apez Angie	Hemispherical Rodius	Flat Dismotor	Side te Prese. (Coavi, or Conc.)
									ening		
	ir cemo	VADIC, DO	its usea.	(Mater	al, Spec, N	e., T.S., 512	e, Number)	Other last	(Dec	cribe or strac	h sketch)
7.	Jacket	Closurer.	Describes		weld, b <b>er, e</b>	te. If ber give	e dimensions,	if bolted, descr		eight	
<b>S.</b>	Desiga	pressure	· <u> </u>	250		psi 24		575	Charge	Impact	(t-1b °F
(cn	is 9 and	10 to be	complete	d for tube	sections	· · · · · · · · · · · · · · · · · · ·			······		·····
9.	Tube S	heem Su	kionary.	Material	Kind & Spe	Di:	s. (Subject to	pressuret	kaess ia. A	ttachment(	Weided, Bolted)
		Fl	oscing.	Material _		Di	±	Thio	knessia. A	uschment	
IG.	Tubest	Material	·		0.D	in. Thi	ickness	inches	knessin. A . Number	Type	
	•.								is of heat exchan		(Str. or U)
		(KL	d & Spec.	Ne.) (Min.	of Range Sp	ecified)		vance	Dia fr		ft., in. _ 7
	anten a Stationalista Stationalista	Gieth		я.	т.'		R.T.		No. of Courses		
13.	Heads								l		
		Location	т	hickness	Crewn Redius			Conical Apez Angle		Flat Diameter	Side te Press. (Conv. or Conc.
	(a) Top (b) Cha		ends								
	If remo	vable, bo	lts used (	[2]		») (	(c)	0	ther fastening	Describe of a	ittach sketch)
									Drop V	eight	
	Destar	pressure	3							[mpact	[t+12
	Design	pressure				psc a	•		- F Actemp		
ten	i\$ 5eló≠	i a be co	mpleted (	or all ves	sels when	e applicab	le,		· · · · · · · · · · · · · · · · · · ·		
	5	Value Ou				**		ocation			
	Nozzle		neus; "N	umber		, SIZE		.ocation			
	Purpes	or (iniet, , Drmn)	Num	ber	Dia, or Sla	e Ty	pe Mat	eriai Th		dorcement Interial	Hew Attached
, ~											
ti.											
	~~~							tion			· · · · · · · · · · · · · · · · · · ·
18.	Support								eribes Attache	d	tre & Hewi
		tweld Heat		30) 107	(Numbi	161	(Stumber)	, D•		,	

. . 1

\_

---

•

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

.

•

· • · · ·	Sheet 2 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR As required by the Provision of the ASME Co	ode Rules. Section III. Div. 1 (1813-037)
(a) Massfactured by General Electric Company, Castle	Hayne Rd., Wilmington, N.C.
(b) Manufactured for General Electric Company, San Jo	
2. Identification-Certificate Holder's Serial No. of Part A4218	
(a) Constructed According to Drawing No. 768E534G001 Draw	ving Prepared by
(b) Description of Part Inspected Control Rod Drive	, Model #7RDB144DG001 N207
(c) Applicable ASME Code: Section III, Edition 1974, Addenda da	
T. Cap 16689274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 OD	Code weld P50YP102
2. Indicator Pipe 166E9313P1 SA312-TP316 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.	Comparison       Reactor vessel
3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D	
<ul> <li>4. Flange 919D610P1 (719E474)</li> <li>.SA182-F304</li> <li>3.37 thick x 9 5/8 0D</li> <li>neck 1 1/16 thick x 5.0 0D</li> <li>2.875 ID</li> </ul>	Code weld 
5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID	
6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 00 x 1.75 ID	Code weld P50YP102
7. Cap Screw 117C4516P2 SA193-86 6 ea. 1/2 dia. on 4 1/8 bolt circle	CONTROL ROD DRIVE DWG - 768E534
8. Plug 175A7967P1 SA182-F304 0.38 thick x 1.307 dia.	9. Nut 13705934P1 TM-19 SA479 1.30 thick x 2.62 dia. 00234

REPORT	NO.	P0059-009
--------	-----	-----------

	MR 19488	Sheet 1 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' I As required by the Provisio	DATA REPORT FOR NUCLE on of the ASME Code Rules. S	AR PART AND APPURTENANCES
		/21 of 465
. (a) Maaufactured by General Electric Com	IName and address of NPT Certific	ste Kolderi
(b) Manufactured for General Electric Con	apany, San Jose, Cali	fornia
. identification-Certificate Holder's Serial No. of Part		at'l Bd. No.
(a) Constructed According to Drawing No. 768E53		
(b) Description of Part Inspected Control Ro	d Drive, Model #7RDE	144DG001
(c) Applicable ASME Code: Section III, Edition	4 Addends date W*75	N207 1361-2 1 Case No. 1
. Remarks: Standard part for use with R		
Brief de script	ion of service for which compone	nt was designed)
<del></del>		
* Total number of sheats - 2	 	
· • · <b>•</b> ·	· .	
ate Holder for appurtenances is responsible for furnishing scluded in the component Design Specification and Stre 	ISS Report.) IPD-WMD-QA By	HE. Self
certificate of Authorization ExpiresJune 10, 1	.981 Certificate of	Authorizacion No
CERTIFICATION OF DESIG	N FOR APPURTENANCE	(when applicable)
Design information on file atGE, NEPD-HAD-QA	, Castle Hayne Rd.,	Wilmington, N.C.
22A5556, Rev. 1 Scress analysis report on file at <u>GE, NEPD-WAD-O</u>	A, Castle Hayne Rd.,	Wilmington, N.C.
22A4912, Rev. 2 Design specifications certified by <u>B. N. Sridh</u>	ar Pr	of. Eng. Stare Callf Reg. No. 18345
Stress analysis report certified by_ B. N. Sridh		of. Eng. State Calif Reg. No. 18345
· CERTIFICA	TE OF SHOP INSPECTIO	N
I, the undersigned, holding a valid commission is and/or the State or Province of North Carolina	sued by the Nacional Board o	Boiler and Pressure Vessel Inspector ment of Labor
erState of North Carolina	have inspected the part -	of a pressure vessel described in this
Partial Data Report on and belief, the NPT Certificate Holder has constructed th	is part in accordance with the N	Pand state that to the best of my knowleds SME Code Section III.
By signing this certificate, neither the inspector ing the part described in this Partial Data i shall be liable in any manner for any personal inju- with this inspection.	nor his employer makes my v Report. Furthermore, nelt	varianty, expressed or implied, concern her the inspector nor his employ(
Date 12/28 19 79		NC 723, PA WC1766, OHIO.
C @ Alernill	- Commissions	tionel Board, State, Province and No.
Bupplomental Bhaoth in form of Llata, akotches or drawings may be use Brit forest is included on each sheet, and the over sheet is humbered and comber of three is the ment	E Perardied of stell 3. "Remarks"	
10/77) This form (E000.40) m	ay be obtained from the Order De	or., ASME, 345 E. 47th St., New York, N.Y.
·	•	-/X
		•
	88	

•

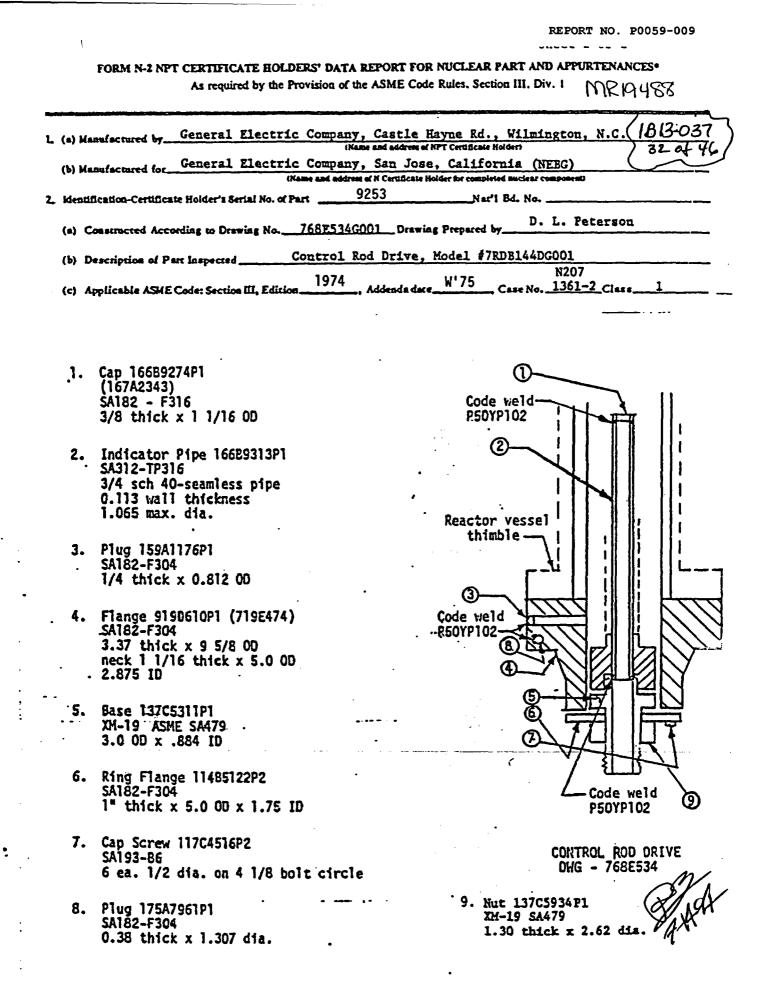
•-

.

••

4.	Shell:	Material	T.S	r	lominal hickness Specified)	Corn in. Allo	osion wancein.	Dis (t	_in. Length.	(t
				••••				_ Efficiency		
									_	
		Ginth	ł	I.T.'		R.T		No. of Course	\$	
6.	Heads:	(a) Material _			T.S		(b) Materi	al la	T.S	
	(Top	Location , bottom, ends)	Thickness	Crown Rediue	Knuckie Redius	Eiliptical Ratte	Conical Apex Angle	Hemisphericsi Rodius	Fint Diameter	Side (Conv
	(#)								<u> </u>	
	(b)									
	If remo	vable, bolts us	red(Mate	erial, Spec. 1	Ne., T.S., Siz	e, Number)	Other fast	ening(D	escribe or atta	ch sketch
7	lacker	Closure:								
••	Jacket	(Deser	ibe as ogee an	dweld, bar, o	etc. If bar giv	e dimensions,	, if bolted, desci	_		
									Weight py Impact	
8.	Design	pressure <sup>3</sup>	1250		psi a	c	575		mp. of	
 Iten	ns 9 and	10 to be comp	leted for tub	e sections						
9.	Tube S	heets: Stationa	ry. Material	(Kind & Sou	Di	L	Thic	kness in.	Attachment	Welded
	<b>-</b> .	Floating	g. Material		Di	A	Thic inches	knessin. Number	Attachment_	
10.	Tubes:	Material		_ 0.D	in. Th	ickness		Number	Тур	c(Str.
		(Xind & Sp	ec. No.) (Min	L of Range St	pecified)	Corro in. Allon	osion waacein.	Dia ft	_ia. Length.	
		(Xind & Sp	ec. No.) (Min	L of Range St	hickness pecified)	Corro in. Allon	osion waacein.		_ia. Length.	
		(Xind & Sp Long		T L of Range S <sub>1</sub> I.T. <sup>1</sup>	hickness pecified)	Correin. Allon R.T	osion wancein.	Dia (t	_in. Length.	_%
12.	Seams:	(X Ind & Sp Long	wec. No.) (Min H H	T L of Range Sy L.T. <sup>1</sup> L.T. <sup>1</sup>	hickness _ pecified)	Corre in. Allon R.T	osion wance	Dia ft Efficiency	_ia. Length.	_%
12.	Seams:	(X Ind & Sp Long	wec. No.) (Min H H	T L of Range S I. T. <sup>1</sup> I. T. <sup>1</sup> Crown	hickness _ pecified)	Corre in. Allon R.T	osion wance	Dia ft Efficiency No. of Courses	in. Length.	% 
12.	Seams: Heads (a) Top	(Kind & Sp Long Girth (a) Material Location , bottom, ends	ec. No.) (kin H H H Thickness	T . of Renge S I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Rediut	hickness pecified) T.S Knuckie Redius	Corre in. Allon _ R.T _ R.T Elliptical Ratia	(b) Materia Contcal Apes Angle	Diaft, Efficiency No. of Courses I Hemispherical	Lin. Length.	% 
12.	Seams: Heads (a) Top (b) Char	(Kind & Sp Long Girth (a) Material Location , bottom, ends anel		T . of Rorge S <sub>1</sub> I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Redius	hickness pecified) T.S Knuckle Redius	Corre in. Allon R.T R.T Elliptical Ratio	(b) Materia Conical Apes Angle	Diaft Efficiency No. of Courses I Hemispherical Radius	_in. Length.	% 
12.	Seams: Heads (a) Top (b) Char	(Kind & Sp Long Girth (a) Material Location , bottom, ends anel		T . of Rorge S <sub>1</sub> I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Redius	hickness pecified) T.S Knuckle Redius	Corre in. Allon R.T R.T Elliptical Ratio	(b) Materia Conical Apes Angle	Diaft Efficiency No. of Courses I Hemispherical Radius	_in. Length.	_ % Side (Conv.
12.	Seams: Heads (a) Top (b) Char	(Kind & Sp Long Girth (a) Material Location , bottom, ends anel		T . of Rorge S <sub>1</sub> I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Redius	hickness pecified) T.S Knuckle Redius	Corre in. Allon R.T R.T Elliptical Ratio	(b) Materia Conical Apes Angle	Dia ft Efficiency No. of Courses I Hemispherical Radius  ther fastening Drop		_7 Side (Conv.
12.	Seams: Heads (a) Top (b) Chai If remov	(Kind & Sp Long Gieth (a) Material (a) Material (a) Material (a) Material (a) Material (a) Material (b) Material (b) Material (c) Ma	ed (a)	T. of Ronge Sy I. T. <sup>1</sup> I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Rodius	hickness pecified) T.S Knuckie Redius 	Corre in. Allor _ R.T _ R.T Elliptical Rette  (c)	(b) Materia Control Apes Angle	Dia ft Efficiency No. of Courses Hemispherical Radius ther fastening Drop Charp		_7 Side (Conv.
12.	Seams: Heads (a) Top (b) Chai If remov	(Kind & Sp Long Girth (a) Material (a) Material (a) Material (a) Material (a) Material (b) Material (b) Material (c) Ma	ed (a)	T. of Ronge Sy I. T. <sup>1</sup> I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Rodius	hickness pecified) T.S Knuckie Redius 	Corre in. Allor _ R.T _ R.T Elliptical Rette  (c)	(b) Materia Conical Apes Angle	Dia ft Efficiency No. of Courses Hemispherical Radius ther fastening Drop Charp		_7 Side (Conv
12. 13.	Seams: Heads (a) Top (b) Chai If remov Design	(Kind & Sp Long Gieth (a) Material (a) Material (a) Material (a) Material (a) Material (a) Material (b) Material (b) Material (c) Ma		T. of Ronge St	hickness pecified) Knuckie Radius  b) psi au	Corre	(b) Materia Control Apes Angle	Dia ft Efficiency No. of Courses Hemispherical Radius ther fastening Drop Charp		_7 Side (Conv.
12, 13. [test	Seams: Heads (a) Top (b) Chai If remov Design	(Kind & Sp Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>2</sup> to be complete	ec. No.) (kin H H Thickness  ed (a) ed for all ve	T . of Range Sy I. T. <sup>1</sup> Crown Radius 	hickness pecified) Knuckie Radius  b) psi au	Corre	Desion wancein. (b) Matteria Contest Apes Angle Or	Diaft Efficiency No. of Courses Hemispherical Radius ther fastening Charp oF at ten	T.S T.S Plat Diameter (Describe or a Weight y Impact	-7 Side (Conv.
12. 13. [4. [tem	Seams: Heads (a) Top (b) Chai If remov Design	(Kind & Sp Long Girth (a) Material (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets:	ec. No.) (kin H H Thickness  ed (a) ed for all ve	T . of Range Sy I. T. <sup>1</sup> Crown Radius 	hickness pecified) Knuckie Radius  b) psi au	Corre in. Allor R.T R.T Elliptical Retio (c)	Desion wancein. (b) Matteria Contest Apes Angle Or	Dia ft Efficiency No. of Courses Hemispherical Radius ther fastening Drop Charp	T.S T.S Plat Diameter (Describe or a Weight y Impact	-7 Side (Conv.
12. 13. [4. [tem	Seams: Heads (a) Top (b) Chai If remov Design as below Safery V Nozzles Purpose	(Kind & Sp Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets: It (iniet,	ec. No.) (kin H H Thickness  ed (a) ed for all ve	T . of Rorge S I. T. <sup>1</sup> Crown Radius     	hickness pecified) T.S Knuckle Redius  b) psi au re applicabl	Corre	ocation	Diaft, Efficiency No. of Courses I Hemispherical Radius  ther fastening Charp oF at ten  Ref	in. Length. T.S Flat Diameter (Describe or of Weight y Impact pp. of	- 7 Side (Conv. 
12. 13. [4. [tem	Seams: Heads (a) Top (b) Chai If remov Design as below Safety V Nozzles Purpead Outlet,	(Kind & Sp Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets: It (iniet,	ec. No.) (kin H H Thickness  ed (a) ed (a) fumber	T . of Range Sy I. T. <sup>1</sup> Crown Radius 	hickness pecified) Knuckie Radius  b) psi au re applicabl Size • Typ	Corre	ocation	Diaft Efficiency No. of Courses Hemispherical Radius ther fastening Charp OF at ten Refickness	in. Length.	- 7 Side (Conv.
12. 13. [4. [tem	Seams: Heads (a) Top (b) Chai If remov Design as below Safety V Nozzles Purpead Outlet,	(Kind & Sp Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets: it (iniet, Drain)	ec. No.) (kin H H Thickness  ed (a) ed (a) fumber	T. of Range Sy I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius  (1) ssels when Dis. or Siz	hickness pecified) 	Corre	ocation	Diaft Efficiency No. of Courses Hemispherical Radius ther fastening Charp OF at ten Refickness	in. Length.	- 7 Side (Conv. 
12. 13. [4. [tem	Seams: Heads (a) Top (b) Chai If remov Design as below Safety V Nozzles Purpead Outlet,	(Kind & Sp Long Girth (a) Material (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets: It prain) P	ec. No.) (kin H H Thickness  ed (a) ed (a) fumber	T. of Range Sy I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius  (1) ssels when Dis. or Siz	hickness pecified) 	Corre	ocation	Diaft Efficiency No. of Courses Hemispherical Radius ther fastening Charp oF at ten hekness	in. Length.	- 7 Side (Conv 
12, 13. [tem 15. 16.	Seams: Heads (a) Top (b) Chai If remov Design as below Safery V Nozzles Purpose Outlet,	(Kind & Sp Long Girth (a) Macerial Location , bottom, ends anel vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets: It c (iniet, Droin) N	ec. No.) (kin H H H Thickness  ed (a) ed (a) fumber fumber	T. of Range Sy I. T. <sup>1</sup> I. T. <sup>1</sup> Crown Radius  ssels when Dis. or Siz	hickness pecified) 	Correc in. Allon _ R.T _ R.T Elliptical Retio  (c) le. L	ocation	Diaft Efficiency No. of Courses Hemispherical Radius ther fastening Charp OF at ten hekness	in. Length. T.S Flat Diameter (Describe or a Weight y Impact ap. of anforcement Material	- 7
12, 13. [tem 15. 16.	Seams: Heads (a) Top (b) Chai If remov Design as below Safety V Nozzles Purpose Outlet, Inspecti	(Kind & Sp Long Girth (a) Marcerial Location . bottom, ends anel vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets: It c (Iniet, Drein) N	ec. No.) (kin H H H Thickness  ed (a) ed (a) ed (a) fumber  fumber  fumber	Dis. or Siz	hickness pecified) 	Correc in. Allon _ R.T _ R.T Elliptical Retio  (c) t le. Loca	ocation	Diaft Efficiency No. of Courses Hemispherical Redius ther fastening Charp oF at ten hekness	in. Length.	- 7
12, 13. [tem 15. 16.	Seams: Heads (a) Top (b) Chai If remov Design as below Safety V Nozzles Purpose Outlet, Inspecti	(Kind & Sp Long Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>2</sup> to be complete Valve Outlets: it (inlet, Drain) N ion Manholes, gs: Handholes	wee. No.)       (kin        H      H         Thickness      H         cd (a)      H         ed (a)      H         Number	Dis. or Siz	hickness pecified) 	Correc in. Allon _ R.T _ R.T Elliptical Retio  (c) t le. Loca Loca	ocation	Diaft Efficiency No. of Courses Hemispherical Radius ther fastening Charp OF at ten hekness	in. Length.	73

<sup>1</sup> If Postweid Heat-Treated. <sup>2</sup> List other internal or esternal pressure with coincident temperature when applicable.



		REPORT NO. P0059-009
	<u>,</u>	
		12017/457
		FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES TAS required by the Provision of the ASME Code Rules, Section III, Div. 1 (1813-037)
		MR 28195 33 6446
	6	
	•	L (a) Manufactured by General Electric Company, Castle Eavne Ed., Wilmington, N.C.
		(b) Masufactured for General Electric Company, San Jose, California (NEBG) Usane act address of M Carificale Reider for completed mechanics
		2. Identification-Cartificate Holder's Serial No. of PartA6472Nas'l Bd. No
		(a) Constructed According to Drawing No Drawing Prepared by D. L. Patarson
		(b) Description of Part Inspected Control Rod Drive, Model #7EDB144DG001
		(c) Applicable ASHE Code: Section III, Edicion _ 1974, Addends date Case Nc 1361-2 Class
		3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
		* Total number of sheets - 2
	•	· · ·
		Ve certify that the statements made in this report are correct and this vessel part or appurtanance as defined in the Code con forms to the miles 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 appartenances is responsible for familibing a separate Design Specification and Stress Report if the appartenances is at
		included in the component Design Specification and Stress Rep.")
	<b>W</b>	Dere 7/19 19 83 Signed GE: NEPD-Wellow Belder
		Certificate of Authorization Expires
		CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
		GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA
		Saves analysis report on file at GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA 22A4912, Rev. 2
		Design specifications certified by B. N. Sridhar Prol. Eng. State Calif Reg. No. 18345
		Scress scalysis report certified by B. N. Sridhar Prof. Esg. Scale Calif Reg. No. 18345
		CERTIFICATE OF SHOP INSPECTION
		I, the undersigned, holding a valid commission issied by the National Beard of Boiler and Pressure Vessel Inspectors
		end/or the State of Province of North Carolina and employed by Department of Labor of
		Partial Data Report on 7/19 15 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, seither the inspector sor his employer makes any warranty, expressed or implied. concern- ing the part described in this Partial Data Report. Furthermore, Seither the inspector for his employer
		shall be liable is noy manner for any personal injury or property damage or a loss of any kind arising from or connected
		Pase 7/19 19 83 10 722 DA WC1766 OHIO
		Dere 7/19 19 83 N.C. 723, PA.WC1766, OHIO
		Laborer's Signature Commissions Matimati Boure, State, Provises Morig 17
		"Supplemental abouts in fees of lists, aboutes or drawings may be used provided (1) size is 6%" z 11", (2) information in stone 1-2 or this But from a moving or and movi, as the or a material and amount of regression and 2. "Reference".
S. 1. 1.		(10/77) This form (E000 40) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 1001
10.0		the form ( considered by the constraint of the constraint, and the second

· · •

FORM N-2 (back)  Items 4-8 Incl. to be completed for single well versels, jackets of jacketed versels, or shells of heat exchangers,  Momiaal Corrasion  Solution of T.S. Momiaal Corrasion  Solution of Received for single well versels, jackets of jacketed versels, or shells of heat exchangers,  Kind & Sprie. No.) (blin of Received forestiled)  Soreany Long	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Iteme 4-8 Incl. to be completed for single will versels, jackets of jacketed versels, or shells of hese exchangers,         4. Stellt Material       T.S.       Nominal         6. Stellt Material       T.S.       Thickness       is. Allowance       is. Dis., ft., in., is., is., therefore         6. Headse (a) Material       T.S.       R.T.       Efficiency       7         6. Headse (a) Material       T.S.       Rector       (b) Material       T.S.         6. Headse (a) Material       T.S.       Rector       (b) Material       T.S.         7. Section       Covers       Kenture       Rector       Rector       Rector         7. Jacket Closuret       Coversion       Covers Section       (Describe as egre and weid, bar, etc. If bar give dimensionic, if betted, describe or shortes)       Drop Weight	_ [t % Zide te Pr (Cean, or C
4. Sheilt Material       T.S.       Thickness.       is. Allowance       is. Dia	_ [t % Zide te Pr (Cean, or C
5. Sream LongH.T. <sup>1</sup> R.TR.TEfficiency5 GirthH.T. <sup>1</sup> R.TR.TNo. of Courses5 G. Heads (a) MaterialR.T(b) MaterialT.SR.T(b) MaterialT.SR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.	_ [t % Zide te Pr (Cean, or C
5. Sream LongH.T. <sup>1</sup> R.TR.TEfficiency5 GirthH.T. <sup>1</sup> R.TR.TNo. of Courses5 G. Heads (a) MaterialR.T(b) MaterialT.SR.T(b) MaterialT.SR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.TR.	Z Eide te Pr (Cean. or E
GirthH.T. <sup>1</sup> R.TNo. of Courses 6. Headse (a) MaterialT.S(b) MaterialT.S Location Crows Koncide Etiliptical Caulasi Hemisphorical Flat (Top, bottom, ends) Thickness Redue Ratio Apex Angle Redue Dismeter (a)(b) (b) (b) (b) (b) (b) (b) (b) (b) (b) (cleaverial, Spen, Na, T.L. Size, Humber) (Describe or storich) (Describe an open and weid, bar, etc. If bar give dimensions, if balted, describe or storich) Drop Weight	Side 10 Pr (Cean. or C
6. Hendes (a) Material T.S (b) Material	Eide 10 Pr (Cours or C
Leentien Crown Knotide Elliptical Caulani Henisphoriesi Flat (Top, botton, onds) Thickness Redus Rodus Rota Apen Angie Redus Diemster (a)	Eido 10 Pr (Court or C
(Top, botton, onde) Thishness Redius Radius Ratio Apen Angie Radius Dismeter (a)	(Case, ar 5
(b)Other (asteningOther fasteningOther fastening _	
Il removable, bolta used Other fastening (Describe or estath (Describe or estath 7. ]acket Closures	skrtch)
7. JECKer Closures (Describe as ages and weld, bar, etc. If her give dimensions, if boltod, describe or theteb) Drop Weight	
7. JECET Closures (Describe as ages and weld, bar, etc. if bar give dimensions, if boltod, describe or theteb) Drop Weight	
Channel Lances	
8. Design pressure <sup>3</sup> 1250 pei at	
Rus 11-14 Incl. to be completed for inder chambers of juckeres versets, or chambers of next exchangers. Nominal Corrosion L. Shell: MaterialT.SThicknessin. Allowancein. Diaftin. Length	ft
(Kins a spee, Ne.) (alla di Karge spenilles) 2. Seams: Long H.T.	3
Girth Hot.' Hot.' Ret No. of Courses	
	Statement of the local division of the local
3. Heads (a) Material T.S (b) Material T.S	
3. Heads (a) Material T.S T.S (b) Material T.S T.S	
3. Heads (a) Material T.S (b) Material T.S T.S T.S T.S T.S T.S T.S (b) Material T.S T.S T.S (b) Material T.S T.S T.S (b) Material T.S	Side to Pr
3. Hesda (a) Material T.S Crown Knucho Elliptical Contral Homesphorical Flat Diameter (a) Top, bottom, ends	Side to Pr (Cour. or (
3. Heads (a) Material T.S (b) Material T.S Place Content Momenphorizat Place Place Rodius Ratio Rodius Ratio Apers Algie Rodius Biameter (a) Top, bottors, ends (b) Channel (c) Other fastening (Coescribe or etter the prop Weight (c) Other fastening (c) Other fastening (c) Other fastening (c) Other fastening (c) (c) Other fastening (c)	Side to Pr (Conv. or C
3. Heads (a) Material T.S (b) Material T.S T.S (b) Material T.S T.S (b) Material T.S T.S (b) Material Homosphoritan Plat Location Thickness Review Redius Redius Redius Redius Redius Redius (b) Channel (c) Other fastening (Describe or entities (c) Other fastening (Describe or entities (b) (c)	Side to Pr (Conv. or C

.

.

.

٠,-

....

÷.

		REPORT NO. P0059-009
	• •	, Sheat 2 of 2
	)	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES TA's required by the Provision of the ASME Code Rules, Section III, Div. 1 MK 28/75 34 of 46
L	. (n) ]	Manufacrared by General Electric Company, Castle Hayne Ed., Wilmington, N.C.
		Hanafactured for General Electric Company, San Jose, California (NEBG)
1	Ken	Utame and address of N Certificate Holder for consisted sucteor conserves Infication-Certificate Holder's Serial No. of Part
	(a)	Constructed According to Drawing No. 768E536G001 Drawing Prepared by D. L. Paterson
	<b>(b)</b>	Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
	(c)	N207 Applicable ASME Code: Section III, Edicion Addenda date Case No 1361-2_ Class
	1.	Cap 166B9274P1
	•••	(167A2343)
		SA182 - F316 3/8 thick x 1 1/16 00 Code weld P50YP102
	2.	Indicator Pipe 166E9313P1
		SA312-TP316 3/4 sch 40-seamless pipe
i		0.113 wall thickness
l		1.065 max. dia. Reactor vessel
T L	1	Plug 15041176Pt thimble [ ]
ŀ	J.	Plug 159A1176PT SA182-F304
		1/4 thick x 0.812 00
•		O- hard III Hard
•	4.	Flange 919D610P1 (719E474) Code weld SA182-F304
•		3.37 thick x 9 5/8 00
•		neck 1 1/16 thick x 5.0 0D
•	5.	Base 137C5311P1
		XM-19 ASME SA479 3.0 CD x .884 ID
		A TITLE
<b>`</b>	6.	Ring Flange 11485122P2
•		SA182-F304 1" thick x 5.0 00 x 1.75 ID Code weld P50YP102
		1° thick x 5.0 00 x 1.75 ID P50YP102
	7.	Cap Screw 117C4516P2
		SA193-BE CONTROL_ROD_ORIVE
		6 ea. 1/2 dia. on 4 1/8 bolt circle DWG - 768E534
• <i>•</i>	8.	Plug 175A7961P1 9. Nut 137C5934P1
		SA182-F304 0.38 thick x 1.307 dia. 1.30 thick x 2.62 dis. (116.18)
.*		0.38 thick x 1.307 dia. 1.30 thick x 2.62 dia. (1648

					REPORT NO. P	
	~			•• • • • •	Sheet 1 of	2
ی در بر FOI	RM N-2 NPT CERTIFIC As requi	CATE HOLDERS' DATA red by the Provision of	the ASME Code Rule	s, Section III, Div		っろ7く、
(a) Manufa		Electric Compan	y, Castle Hayn	e Rd., Wilmir	ngton, N.C.	
	-	e Electric Compan	ame and address of NPT Ce y, San Jose, C	nuncese Holdens alifornia (NI	ZBG)	
• •		(Name and addr	us of N Certificate Holder &	r completed nuclear co	inpenetit)	
		768E534G0				
	scred According to Dri	Control Rod D	rive, Model #7	RDB144DG001		······
(b) Descn	ption of Part Inspected		Addamate days W	'75 Coopyra	N207 1361-2	1
		or use with Reac	tor, Hydrosta	tically teste	d at 1820 psi	
		(Brief description e	service for which com	ponent was designed	9	•
	* Total number o	f sheets - 2	· · · · · · · · · · · · · · · · · · ·		·····	
ms to the m	les of construction of	e is this report are con	ect and this vessel		e as defined in the	
te Holder fo luded in th	r appurtenances is respo e component Design Spo	nd Stress Report are not msible for furnishing a s reification and Stress R	the responsibility of t parate Design Specifi port.)	the NPT Certificate   Cation and Stress B	Holder for parts. An leport if the appurte	NPT Cettin
te Holder fo tuded in the	component Design Spo 6/12198]	nd Stress Report are not multiple for furnishing a s rectification and Stress R Signed <u>GE</u> , <u>NEPD</u> -	the responsibility of the parate Design Specific sport.)	By Catton and Stress B	teport if the appurte	NPT Certif- nance is so
te Holder fo tuded in the	Authorization Expires	nd Stress Report are not msible for furnishing a s reification and Stress R	the responsibility of the parate Design Specific sport.)	By A CH	Malennin.	NPT Certif- nance is so
te Holder fo iuded in the te	CERTIFICA	nd Stress Report are not maible for furnishing a s recification and Stress R Signed <u>GE, NEPD-</u> (NPT Cent June 16, 1981	the responsibility of the parate Design Specific port.)	By A Stress B e of Asthorization CE (when applic	Mdennin. No. <u>NPT N-115</u> able)	NPT Certif- nance is no
te Holder fo luded in the rtificate of Design info 22A5556	Authorization Expires_ CERTIFICA	nd Stress Report are not maible for furnishing a s recification and Stress R Signed <u>GE, NEPD-</u> (NPT Certi June 16, 1981 (NPT OF DESIGN FO	the responsibility of the parate Design Specific port.) MMD- deste Holdern Certifican DR APPURTENAN astle Hayne Rd	By A Stress B e of Asthorization CE (when applic	Mdennin. No. <u>NPT N-115</u> able)	NPT Certif- nance is no
Design info 22A5556 Stress anal- 22A4912	Authorization Expires_ CERTIFICA Methorization on file scGE Rev. 2 Series report on file sc , Rev. 2	nd Stress Report are not maible for furnishing a s recification and Stress R Signed <u>GE</u> , NEPD- (MPT Cert June 16, 1981 TION OF DESIGN FV C, NEPD-WMD-OA, ( GE, NEPD, San	the responsibility of the parate Design Specific port.)	By A Stress B e of Asthorization CE (when applic	Malenning No. NPT N-115 able)	NPT Certif- nance is no il
Design info 22A5556 Scress anal: 22A4912 Design spe	Authorization Expires_ CERTIFICA CERTIFICA , Rev. 2 ysis report on file st_ , Rev. 2 cifications certified by	De Stress Report are not maible for furnishing a s recification and Stress R Signed	the responsibility of the parate Design Specific port.) WMD- Acase Holdern Certifican DR APPURTENAN Castle Hayne Rd Jose, Calif.	Ention and Stress B By Athorization CE (when applic ., Wilmington . Prof. Eng. Scare St	Molecular No. NPT N-115 able)	NPT Certif- nance is so il .8345
Design info 22A5556 Scress anal: 22A4912 Design spe	Authorization Expires_ CERTIFICA CERTIFICA , Rev. 2 ysis report on file st_ , Rev. 2 cifications certified by	nd Stress Report are not maible for furnishing a s recification and Stress R Signed <u>GE, NEPD- UNPT Cert</u> June 16, 1981 THON OF DESIGN FU C, NEPD-WMD-OA, ( GE, NEPD, San <u>B. N. Sridhar</u> B. N. Sridhar	the responsibility of the parate Design Specific port.) WMD- Acase Holdern Certifican DR APPURTENAN Castle Hayne Rd Jose, Calif.	cation and Stress B By A Difference of Asthorization CE (when applic ., Wilmington . Prof. Eng. State 2 . Prof. Eng. State 2	Appent if the appente <u>Mideumine</u> No. <u>NPT N-115</u> able) <u>n. N.C.</u>	NPT Certif- nance is so il .8345
te Holder fo tuded in the reficate of Design info 22A5556 Stress analy 22A4912 Design spe Stress analy I, the us	Authorization Expires_ CERTIFICA mathematica on file scGE restore	nd Stress Report are not maible for furnishing a s recification and Stress R Signed <u>GE</u> , NEPD- (NPT Cert June 16, 1981 THON OF DESIGN FN C, NEPD-WMD-OA, ( <u>GE</u> , NEPD, San <u>B. N. Sridhar</u> B. N. Sridhar CERTIFICATE alid commission issued	the responsibility of the parate Design Specific port.) WMD- Reste Holdern Certifican OR APPURTENAN astle Hayne Rd Jose, Calif. OF SHOP INSPEC by the National Boa	Extion and Stress B By A Difference of Asthorization CE (when applic ., Wilmington Prof. Eng. State 9 Prof. Eng. State 9 TION rd of Boiler and P	Appril if the appurte <u>M. NPT N-115</u> No. <u>NPT N-115</u> able) <u>N. C.</u> <u>allf</u> Reg. No. <u>allf</u> Reg. No. <u>allf</u> Reg. No.	NPT Certif- nance is no il 
Le Holder fo iuded in the reificate of Design info 22A5556 Stress anali 22A4912 Design spe Stress anali I, the us and/or the is ofS	Authorization Expires. <u>6/12</u> <u>19</u> <u>8]</u> Authorization Expires. <u>CERTIFICA</u> <u>CERTIFICA</u> <u>CERTIFICA</u> <u>State of Province of New</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u>	nd Stress Report are not maible for furnishing a s celification and Stress R Signed <u>GE</u> , NEPD- (NPT Cent June 16, 1981 TION OF DESIGN FV C, NEPD-WMD-OA, ( GE, NEPD, San <u>B. N. Sridhar</u> B. N. Sridhar CERTIFICATE alid commission issued orth Carolina	the responsibility of the parate Design Specific port.) WMD- Reste Holdern Certifican OR APPURTENAN astle Hayne Rd Jose, Calif. OF SHOP INSPEC by the National Boa	Ention and Stress B By A Difference of Asthorization CE (when applic ., Wilmington . Prof. Eng. State Prof. Eng. State Prof. Eng. State TION rd of Boiler and P artment of La	Report if the appurte <u>Mideumine</u> <u>No.</u> <u>NPT N-115</u> able) <u>n. N.C.</u> <u>calif</u> Reg. No. <u>calif</u> Reg. No. <u>calif</u> Reg. No. <u>calif</u> ressure Vessel las bor vessel described	NPT Certif- nance is no il 
I, the us and belief. I by signing the py signing the py and belief. I by signing the py and belief. I by signing the py	Authorization Expires. <u>6/12</u> 19 8] Authorization Expires. <u>CERTIFICA</u> <u>CERTIFICA</u> <u>CERTIFICA</u> <u>Semation on file scGE</u> <u>7 Rev. 2</u> ysis report on file st <u>7 Rev. 2</u> rifications certified by <u>ysis report certified by</u> <u>ysis report certified by</u> <u>state of North Ca</u> <u>Report on</u> <u>he NPT Certificate Holde</u> ing this certificate Holded ing this certificate In this able in any manner for <u>10 PT Certificate In this</u> <u>10 PT Certificate In this <u>10 PT Certificate In this</u> <u>10 PT Certificate In this <u>10 PT </u></u></u></u></u></u></u></u></u></u></u></u></u></u>	nd Stress Report are not maible for furnishing a s celification and Stress R Signed <u>GE</u> , NEPD- (NPT Cent June 16, 1981 TION OF DESIGN FV C, NEPD-WMD-OA, ( GE, NEPD, San <u>B. N. Sridhar</u> B. N. Sridhar CERTIFICATE alid commission issued orth Carolina	the responsibility of the parate Design Specific port.) MDD- Certifican DR APPURTENAN Certifican DR APPURTENAN Castle Hayne Rd Jose, Calif. OF SHOP INSPEC by the National Boa and employed by Dep ave inspected the p <u>6/12</u> in its employer makes of the accordance with the	Extion and Stress B By A Stress B e of Asthorization CE (when applic ., Wilmington ., Wilmington Prof. Eng. State Prof. Eng.	Report if the appurte <u>Mideumine</u> <u>No.</u> NPT N-115 No. NPT N-115 able) <u>n. N.C.</u> <u>able</u> <u>able</u> <u>able</u> <u>ressure Vessel las</u> <u>bor</u> vessel described to the best of my kno ion III. essed or implied, co	NPT Certif- mance is no il .8345 .8345 .8345 
I, the us and belief, t By signing the p	Authorization Expires. <u>6/12</u> 19 8] Authorization Expires. <u>CERTIFICA</u> <u>CERTIFICA</u> <u>CERTIFICA</u> <u>Semation on file scGE</u> <u>7 Rev. 2</u> ysis report on file st <u>7 Rev. 2</u> rifications certified by <u>ysis report certified by</u> <u>ysis report certified by</u> <u>state of North Ca</u> <u>Report on</u> <u>he NPT Certificate Holde</u> ing this certificate Holded ing this certificate In this able in any manner for <u>10 PT Certificate In this</u> <u>10 PT Certificate In this <u>10 PT Certificate In this</u> <u>10 PT Certificate In this <u>10 PT </u></u></u></u></u></u></u></u></u></u></u></u></u></u>	nd Stress Report are not maible for furnishing a s rectification and Stress R Signed <u>GE</u> , NEPD- UNPT Cert June 16, 1981 THON OF DESIGN FU C, NEPD-WMD-OA, ( GE, NEPD, San <u>B. N. Sridhar</u> <u>B. N. Sridhar</u> <u>B. N. Sridhar</u> <u>CERTIFICATE</u> alid commission issued orth Carolina rolina h r bas constructed this pai ither the inspector sor is Partial Data Repor	the responsibility of the parate Design Specific port.) MDD- Certifican DR APPURTENAN Certifican DR APPURTENAN Castle Hayne Rd Jose, Calif. OF SHOP INSPEC by the National Boa and employed by Dep ave inspected the p <u>6/12</u> in its employer makes of the accordance with the	ation and Stress B By Athorization c of Asthorization CE (when applic ., Wilmington ., Wilmington Prof. Eng. State Prof. Eng.	Report if the appurte <u>Multimum</u> <u>No.</u> <u>NPT N-115</u> <u>able</u> ) <u>able</u> ) <u>ab</u>	NPT Certif- nance is Bot il 
te Holder fo iuded in the retificate of Design info 22A5556 Stress anali 22A4912 Design spe Stress anali 22A4912 Design spe Stress anali 22A4912 Design spe Stress anali 22A4912 Design the shall be li with this in	Authorization Expires_ <u>6/12_19_81</u> Authorization Expires_ <u>CERTIFICA</u> <u>CERTIFICA</u> <u>CERTIFICA</u> <u>Serve</u> <u>Reve</u> <u>sis report on file ac_</u> <u>Reve</u> <u>sis report on file ac_</u> <u>sis report on file ac_</u> <u>sis report certified by</u> <u>sis report certified by</u> <u>state of North Ca</u> <u>Report on</u> <u>he NPT Certificate Holde</u> ing this certificate, se <u>art described in thi</u> <u>able in any manner for</u> <u>spection</u> .	nd Stress Report are not maible for furnishing a s rectification and Stress R Signed <u>GE</u> , NEPD- UNPT Cert June 16, 1981 THON OF DESIGN FUE C. NEPD-WMD-OA, C GE, NEPD-WMD-OA, C GE, NEPD, San <u>B. N. Sridhar</u> <u>B. N. Sridhar</u> <u>B. N. Sridhar</u> <u>CERTIFICATE</u> alid commission issued orth Carolina rolina <u>b</u> r has constructed this pa isher the Inspector sor is Partial Data Repor r any personal injury of <u>19_81</u>	the responsibility of the parate Design Specific port.) MDD- Certifican DR APPURTENAN Certifican DR APPURTENAN Castle Hayne Rd Jose, Calif. OF SHOP INSPEC by the National Boa and employed by Dep ave inspected the p <u>6/12</u> in its employer makes of the accordance with the	Extion and Stress E By Athorization CE (when applic ., Wilmingtor Prof. Eng. Stare 9 Prof. Eng. Stare 9 Prof. Eng. Stare 9 TION rd of Boiler and P artment of La art of a pressure S1. and state that he ASME Code Sect ny warranty, expre- leither the Insp- a loss of any kind N.C. 723, F	Report if the appurte <u>Mideumine</u> <u>No.</u> NPT N-115 No. NPT N-115 able) <u>n. N.C.</u> <u>able</u> <u>able</u> <u>able</u> <u>ressure Vessel las</u> <u>bor</u> vessel described to the best of my kno ion III. essed or implied, co	NPT Certif- nance is no il 

11	0/771	

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

.\*

	Shell:	Material	T.S.	N	ominal bickness	Corro	sion	Die fe		ft ia.
5.	Seame	Loag		H.T. <sup>1</sup>	······	R.T	· · ·	Efficiency	<u> </u>	- %
6.	Headac		4					al		
			) Thicknet	s Radius	Knuckio Rodina	Ratio	Conicai Apez Angle	Hemispherical Radius	Flat Diamotor	Side to Press. (Conv. or Conc.)
	(b)							<del></del>		
		vable, bolta	used				Other fast	cening(De	scribe or atta	ch sketch)
7.	Jacket	Closurer								·
		(Des	cribe as oges i	nd weld, bar, (	rtë. If b <b>ar g</b> iv	re dimensions,	, if bolted, desci		/eight	
R	Desian	pressure <sup>3</sup>	1250		<b>:</b> _	ut	575			(wib °F
0.	Dest fa	hicsente			pm 1	<u> </u>		C EL (CD)	p. or	
ten	s 9 and	10 to be con	apleced for t	ube sections	<b>.</b>				······	
						•				
9.	Tube S	tects: Statio	ascy. Materi	(Kind & Sp	Di ec. No.)	is(Subject to	pressure)	:kaessia. A	ctachment	(Welded, Bolted)
		Float	ing, Maceria	nt	Di	i a	Thio	:knessia, A	tachment	
0.	Tubes:	Material		O.D	in. Th	lickaess	inches	knessia. A	Тур	
								<u> </u>		(Str. or U)
ten	ns 11-14	incl. to be		r inner chan		cketed vesse	els, or chanae	is of heat excha		- 
11.	Shell:	Material		T	hickness	T- A77				
12.	Seams			lin, of Range S <sub>1</sub> H.T. <sup>1</sup>	pecified)					ftia.
12.	Seams	Loag		H.T.	pecified)-	R.T		Efficiency		_7
		Long		H.T. <sup>1</sup>	pecified) 	R.T		. Efficiency		_%
		Long		H.T. <sup>1</sup>		R.T R.T	(b) Materia	Efficiency No. of Courses	T.S	_%
		Long		H.T. <sup>1</sup>	_ T.S Knuckle	R.T R.T Elliptical		. Efficiency	T.S	_%
	Heads- (a) Top	Long Girth (a) Material Location , bottom, en	Thickore	H.T. <sup>1</sup>	_ T.S Knuckie Radius-	R.T R.T Elliptical		Efficiency No. of Courses I Konsephorical	T.S Flat	- 76
	Heads- (a) Top (b) Cha	Long Girth (a) Material Location , bottom, en anel	Thickness ds	H.T. <sup>1</sup>	T.S Knuckie Radius			Efficiency No. of Courses I Hemispherical Radius.	T.S Flat	- 76
	Heads- (a) Top (b) Cha	Long Girth (a) Material Location , bottom, en anel	Thickore	H.T. <sup>1</sup>	T.S Knuckie Radius			Efficiency No. of Courses I Homophorical Radius  ther fascening	T.S. Flat Diameter	_ %
	Heads- (a) Top (b) Cha	Long Girth (a) Material Location , bottom, en anel	Thickness ds	H.T. <sup>1</sup>	T.S Knuckie Radius			Efficiency No. of Courses I Hemispherical Radius ther fastening Drop W	T.S Flat Diameter  (Describe or i Veight	 Side to Press. (Conv. or Conc.)  settech sketch)
13.	Heads- (a) Top (b) Cha If remov	Long Girth (a) Material Location , bottom, en anel	Thicknee ds used (a)	H.T. <sup>1</sup>	_ T.S Knuckie Redius-  b)		(b) Materia Contest Apez Angle O	Efficiency No. of Courses I Hemispherical Radius ther fastening Drop W Charpy	T.S. Flat Diameter	Side to Press. (Conv. or Conc.)
13.	Heads (a) Top (b) Cha If remov Design	Long Girth (a) Material Location , bottom, en anel vable, bolts pressure <sup>2</sup>	Thicknee ds used (a)	.H.T. <sup>1</sup> H.T. <sup>1</sup> Crown 			(b) Materia Contest Apez Angle O	Efficiency No. of Courses I Hemispherical Radius ther fastening Drop W Charpy	Describe or i Veight	Side to Press. (Conv. or Conc.)
13.	Heads (a) Top (b) Cha If remov Design	Long Girth (a) Material Location , bottom, en anel vable, bolts pressure <sup>2</sup>	Thicknee ds used (a)	.H.T. <sup>1</sup> H.T. <sup>1</sup> Crown 			(b) Materia Contest Apez Angle O	Efficiency No. of Courses I Hemispherical Radius ther fastening Drop W Charpy	Describe or i Veight	Side to Press. (Conv. or Conc.)
ι3. ι4.	Heads- (a) Top (b) Cha If remov Design	Long Girth (a) Material Location , bottom, en anel vable, bolts pressure <sup>3</sup> to be compl	Thickness ds used (a) eted for all	.H.T. <sup>1</sup> H.T. <sup>1</sup> Crown 	_ T.S Knuckie Radius-  b) psi a re applicab	R.T R.T Eilliptical Racio (c) st ole.	(b) Materia Contest Apez Angle O	Efficiency No. of Courses I Hemispherical Redlus  ther fastening Charps F at tem	Describe or i Veight	Side to Press. (Conv. or Conc.)
13. 14. τeπ	Heads- (a) Top (b) Cha If remov Design	Long Girth (a) Material Location , bottom, en anel vable, bolts pressure <sup>2</sup> to be compl Valve Outlet	Thickness ds used (a) eted for all	.H.T. <sup>1</sup> H.T. <sup>1</sup> Crown 	_ T.S Knuckie Radius-  b) psi a re applicab	R.T R.T Eilliptical Racio (c) st ole.	(b) Materia Contest Apez Angle O	Efficiency No. of Courses I Hemispherical Redlus.  ther fastening Charps F at tem	Describe or i Veight	Side to Press. (Conv. or Conc.)
13. 14. 15.	Heads- (a) Top (b) Cha If remov Design as below Safety ' Nozzie: Purpos	Long Girth (a) Material Location , bottom, en anel vable, bolts pressure <sup>2</sup> to be compl Valve Outlet E e (lalot,	Thickness ds used (n) ered for all t ss: Number	.H.T. <sup>1</sup> H.T. <sup>1</sup> Crown 	- T.S Knuckie Redius-  b) psi a re applicab		(b) Materia Conical Apoz Angle O	Efficiency No. of Courses I Hemispherical Radius.  ther fastening Charpy F at tem	Describe or i Veight	Side to Press. (Conv. or Conc.)
13. 14. 15.	Heads (a) Top (b) Cha If remov Design as below Safety Y Nozzie:	Long Girth (a) Material Location , bottom, en anel vable, bolts pressure <sup>2</sup> to be compl Valve Outlet E e (lalot,	Thickness ds used (a) eted for all	H.T. <sup>1</sup> H.T. <sup>1</sup> Crown DeRedus- (1) vessels when	- T.S Knuckie Redius-  b) psi a re applicab		(b) Materia Conical Apoz Angle O	Efficiency No. of Courses I Hemispherical Radius  ther fascening Charpy F at tem	T.S. Plat Dismeter (Describe or i /eight / impact p. of / arcement	_7 Side to Press. (Conv. or Conc.) 
13. 14. τeπ	Heads- (a) Top (b) Cha If remov Design as below Safety ' Nozzie: Purpos	Long Girth (a) Material Location , bottom, en anel vable, bolts pressure <sup>2</sup> to be compl Valve Outlet E e (lalot,	Thickness ds used (a) eted for all - ss: Number Number	H.T. <sup>1</sup> H.T. <sup>1</sup> Crown Radius Radius (1) vessels when Dis. or Sis	- T.S Knuckle Radius-  b) psi a re applicab Size s Tr			Efficiency No. of Courses I Homiophorical Radius  ther fastening Drop W Charpy F at tem  icknose	T.S. Plat Dismeter (Describe or i /eight / impact p. of / arcement	_7 Side to Press. (Conv. or Conc.) 
13. 14. (en	Heads- (a) Top (b) Cha If remov Design as below Safety ' Nozzie: Purpos	Long Girth (a) Material Location , bottom, en anel vable, bolts pressure <sup>2</sup> to be compl Valve Outlet E e (lalot,	Thickness ds used (a) eted for all s: Number Number	H.T. <sup>1</sup> H.T. <sup>1</sup> Crown DeRedius (1) vessels when Dia, or Sis	- T.S Ksuckle Radius-  b) psi a re applicab . Size te Ty			Efficiency No. of Courses I Hemispherical Radius  ther fascening Charpy F at tem	T.S. Plat Dismeter (Describe or i /eight / impact p. of / arcement	_7 Side to Press. (Conv. or Conc.) 
13. (cm	Heads (a) Top (b) Cha If remov Design Design Safety V Nozzle: Purpos Outlet, Inspect	Long Girch (a) Material Location , bottom, en anel vable, bolts pressure <sup>2</sup> to be compl Valve Outlet s: e (lalet, . Drwin)	Thickneed ds used (a) eteed for all ss: Number Number es, No	H.T. <sup>1</sup> H.T. <sup>1</sup> Crown Dia. Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown Crown	- T.S Ksuckle Radius-  b) b) b) b) b) b) c size size			Efficiency No. of Courses I Homiophorical Radius  ther fastening Drop W Charpy F at tem  texnoss Keinter	T.S	
13. (eπ 15.	Heads (a) Top (b) Cha If remov Design Design Safety V Nozzle: Purpos Outlet, Inspect	Long Girch (a) Material Location , bottom, en anel vable, bolts pressure <sup>3</sup> to be compl Valve Outlet s: e (latet, .Drwin)  ion Manhol gs: Handbio	Thickness ds used (a) eted for all s: Number Number cs, No ies, No	.H.T. <sup>1</sup> H.T. <sup>1</sup> Crows 	- T.S Kouckie Radius-  b) b) psi a re applicab Size size ize	R.T R.T Eilliptical Ratio (c) st ble. Loc: Loc: Loc:		Efficiency No. of Courses I Hemispherical Radius.  ther fastening Drop W Charpy F at temi  itekness Kein	T.S	
13. (eπ 15.	Heads- (a) Top (b) Cha If remove Design as below Safety ' Nozzle: Purpoa Outlet, In spect Qpenin,	Long Girth (a) Material Location , bottom, en anel vable, bolts pressure <sup>3</sup> to be compl Valve Outlet st e (Intet, Drain)  ion Manhol gs: Handho Thread	Thickness ds used (a) eted for all of ss: Number Number es, No es, No ed, No	.H.T. <sup>1</sup> H.T. <sup>1</sup> Crows 	- T.S Knuckie Radius-  b) b) psi a re applicab . Size size ize ize			Efficiency No. of Courses I Hemispherical Radius.  ther fastening Charpy F at tem  ickness Kein	T.S Plat Diameter  (Describe or in //eight / impact p. of / dorcement laterial	

	REPORT NO. P0059-009
4 <b></b>	Sheet 2 of 2
	DERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. Provision of the ASME Code Rules, Section III, Div. 1 (1013-0372
	( 34 of 46 )
(a) Manufactured by General Electri	C Company, Castle Hayne Rd., Wilmington, N.C.
(b) Manufactured for General Electri	C Company, San Jose, California (NEBG) Name and address of N Certificate Holder for completed Bucker composers0
dentification-Certificate Holder's Serial No. of I	Part A4189 Nat"1 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 ASHE Code: Section III, Editio	N207 <u>1974</u> , Addenda date_ <u>W<sup>1</sup>75</u> , Case No. <u>1361-2</u> Class_ <u>1</u>
1. Cap 166B9274P1	
(167A2343)	
SA182 - F316	Code weld
3/8 thick x 1 1/16 OD	P50YP102
2. Indicator Pipe 166E9313P1	
SA312-TP316	
3/4 sch 40-seamless pipe	
0.113 wall thickness	
<b>T.065 max. dia.</b>	Reactor vessel
• •	thimble
3. Plug 159A1176P1	
SA182-F304	
1/4 thick x 0.812 0D	
4. Flange 919D610P1 (719E474)	
SA182-F304	
3.37 thick x 9 5/8 00	
neck 1 1/16 thick x 5.0 0	
. 2.875 ID	
_	
5. Base 137C5311P1	
XM-19 ASME SA479	
3.0 OD x .884 ID	
	V7-8-12-1
6. Ring Flange 11485122P2	
SA182-F304	L Code weld
1" thick x 5.0 0D x 1.75 1	
· · · · · · · · · · · · · · · · · · ·	
7. Cap Screw 117C4516P2	
SA193-B6	CONTROL ROD DRIVE
6 ea. 1/2 dia. on 4 1/8 bo	DLID TEOFESA
0 01 1751705705	9. Nut 137C5934P1
8. Plug 175A7961P1	• XM-19 SA479
SA182-F304 0.38 thick x 1.307 dia.	1.30 thick x 2.62 dia.
v	• 00189

:

	REPORT NO. P0059-009
	Sheet 1 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR As required by the Provision of the ASME Code	Rules. Section III. Div. 1 (1813-037)
L. (a) Manufactured by General Electric Company, Castle H	NPT Ceruncele Holders
(b) Menufactured for General Electric Company, San Jose	e, California (NEBG)
2. Identification-Certificate Holder's Serial No. of Part A4269	
(s) Constructed According to Drawing No. 768E534G001 Drawing	B. L. Patarson
(b) Description of Part Inspected Control Rod Drive, Model	#7EDB144DG001
(b) Description of Part Inspected	W'75 Case No [ass]
3. Remarks: Standard part for use with Reactor. Hydro	ostatically tested at 1820 psi.
(Brief description of service for which	h component was designed
* Total number of sheats - 2	······································
forms to the rules of construction of the ASHE Code Section III.	
(The applicable Design Specification and Stress Report are not the responsibility icate Holder for appurtensaces is responsible for furnishing a separate Design S included in the component Design Specification and Stress Report.)	pecification and Stress Report if the appurtenance is no
(The applicable Design Specification and Stress Report are not the responsibility icate Holder for appurtensaces is responsible for furnishing a separate Design S included in the component Design Specification and Stress Report.)	pecification and Stress Report if the appurtenance is no
(The applicable Design Specification and Stress Report are not the responsibility icate Holder for apportenances is responsible for furnishing a separate Design S	By A Chtoudenmic By A Chtoudenmic ifficate of Authorization No. NPT N-1151
The applicable Design Specification and Stress Report are not the responsibility included in the component Design Specification and Stress Report.) Dete	By Attrudenmic By Attrudenmic ifficate of Authorization No. NPT N-1151 NANCE (when applicable)
The applicable Design Specification and Sirrss Report are not the responsibility included in the component Design Specification and Stress Report.) Once	By A. More Report of the appurtemance is not By A. More and Stress Report of the appurtemance is not ifficate of Authorization No. NPT N-1151 NANCE (when applicable) a Rd., Wilmington, N.C.
The applicable Design Specification and Stress Report are not the responsibility cate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.) Once	By A. More No. NPT N-1151 NANCE (when applicable) a Rd., Wilmington, N.C.
The applicable Design Specification and Stress Report are not the responsibility cate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.) Date	By Attrudenmic By Attrudenmic ifficate of Authorization No. NPT N-1151 NANCE (when applicable) a Rd., Wilmington, N.C.
The applicable Design Specification and Stress Report are not the responsibility cate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.) Date	By <u>Cttoutennui</u> By <u>Montennui</u> ificate of Authorization No. <u>NPT N-1151</u> NANCE (when applicable) a Rd., Wilmington, N.C. <u>Prof. Eng. State Calif</u> Reg. No. 18345 Prof. Eng. State <u>Calif</u> Reg. No. 18345
The applicable Design Specification and Sirrss Report are not the responsibility cate Holder for appurtenances is responsible for formishing a separate Design Sincluded in the component Design Specification and Stress Report.) Once	pecification and Stress Report & the appurtemance is no 
The applicable Design Specification and Stress Report are not the responsibility case Holder for appurtensaces is responsible for furnishing a separate Design Specification and Stress Report.) Date	By <u>Cthoulennui</u> By <u>Cthoulennui</u> ifficate of Authorization No. <u>NPT N-1151</u> ifficate of Authorization No. <u>NPT N-1151</u> iNANCE (when applicable) a Rd., Wilmington, N.C. <u>Prof. Eng. State Calif</u> Reg. No.18345 <u>Prof. Eng. State Calif</u> Reg. No.18345 <u>PECTION</u> i Board of Boiler and Pressure Vessel Inspectors <u>Department of Labor</u> the part of a pressure vessel described in this <u>is81</u> , and state that to the best of my knowledge with the ASME Code Section III. kes any warranty, expressed or implied, concera- reg. meither the Inspector nor his employer
The applicable Design Specification and Strem Report are not the responsibility icate Holder for appurtenances is responsible for furnishing a separate Design Spincluded in the component Design Specification and Stress Report.) Once	pecification and Stress Report if the appurtemance is no By <u>fttoutennui</u> ifficate of Authorization No. <u>NPT N-1151</u> NANCE (when applicable) a Rd., Wilmington, N.C. Prof. Eng. State <u>Calif</u> Reg. No.18345 Prof. Eng. State <u>Calif</u> Reg. No.18345 Prof. Eng. State <u>Calif</u> Reg. No.18345 Prof. Eng. State <u>Calif</u> Reg. No.18345 PECTION I Board of Boiler and Pressure Vessel Inspectors <u>Department of Labor</u> the part of a pressure vessel described in this tsl. and state that to the best of my knowledge with the ASME Code Section III. kes my warsney, expressed or implied, concern- re, neither the Inspector nor his employer ge or a loss of any kind arising from or connected
The applicable Design Specification and Strem Report are not the responsibility cate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.) Date7/2319_81SignedGE, NEFD-WMD-QAUPT Certificate Holder? Certificate of Authorization ExpiresSeptember 15, 1981Certificate of Authorization ExpiresSeptember 15, 1981Certificate and formation on file arSeptember 15, 1981Certificate of Authorization on file arSeptemberSeptemberSeptemberSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSettingSetting	By <u>Cthoulennui</u> By <u>Cthoulennui</u> ifficate of Authorization No. <u>NPT N-1151</u> ifficate of Authorization No. <u>NPT N-1151</u> iNANCE (when applicable) a Rd., Wilmington, N.C. <u>Prof. Eng. State Calif</u> Reg. No.18345 <u>Prof. Eng. State Calif</u> Reg. No.18345 <u>PECTION</u> i Board of Boiler and Pressure Vessel Inspectors <u>Department of Labor</u> the part of a pressure vessel described in this <u>is81</u> , and state that to the best of my knowledge with the ASME Code Section III. kes any warranty, expressed or implied, concera- reg. meither the Inspector nor his employer

··· Buk Read a service and the set in the se

This form (E000.40) may as accurate from the Order Ducts ASME STE E. 1767 St., New York, N.Y. 10017

FORM	N-2	(back)
------	-----	--------

	<b>65</b> - 11 -	A	<b>T</b> c	<u>7</u>	ominal	Corn	sion			
٦.	Snell:	Material (Kind & S	I.S ipee. No.) (Mu	n. of Range S	hickness (pecified)	in. Allo	wancein.	Dia ft	in. Length_	
5.	Senaus	Long	н	.T.'		_ R.T		Efficiency	_	. 7.
										-
		Girch	H	I.T. <sup>1</sup>	····	R.T	· · · · · · · · · · · · · · · · · · ·	No. of Courses		
6.	Heads							ul		
		Location , bottom, ends)			Redive	Ratio	Apex Angle	Hemispherical Radius	Flat Diamater	Side to Prose (Conv. or Cond
		rable, holts us								
		rable, bolts us	(Mete	rial, Spee. N	le., T.S., Size	e, Number)		(Der	scribe or atta	th sketch)
•	Jacket	Closures		maid has a			if bolted, descr			
		(Uesch	196 es e£se su	weig, 347, 4	4 <b>C. 11 DAF 81 44</b>	r dimensions,	, u bolled, descr		eight	
_	<b>-</b> ·	pressure <sup>2</sup>	1250				575	Charpy	Idpact	{t-
5.	Design	biszare.			psi st	·		at tem	», of	······································
-	hat 9 and	10 to be comp	leted for rub	e sections	· · · · · · · · · · · · · · · · · · ·					
э.	Tube Si	eets: Stations	ary. Material.		Dia		Thic	knessia. A	ceachmene	
_		Floatin	L. Material		Dia	•		knessin, A Number	ttachment	
J.	[uð¢s:	Macerial		_ 0,D,	ia. Thi	ickness	OF [0]0	. Number	Тур	(Str. or U)
	- 11 .14	ingt in he is			h			a of heat exchan		
								S OF ACEC CECAE	i fer 3.	
1.	Sheil:	Macerial	T.S		ominal lickness	Corre in_ Allor	Sion Macein.	Dia ft	in. Length.	ft ii
		(Kind & Sp	ee. No.) (Min	, of Range Sp	ecified)				•	
2.	Saamer	1	Li Li	.т.'						
	JE 1143;	Log 2				_ R.T		Efficiency		_5
	<u> жы</u> ңа;	-						•		
		Girch	я	.T.'				No. of Courses .		
3.		Girch	я	.T. <sup>1</sup>	. T.S		(5) Material	No. of Courses .	T.S	
5.	Heads	Girch	я	.T. <sup>1</sup>	. T.S			No. of Courses .	T.S	Side to Press
3.	Heads	Girch (a) Material Location	H	.T. <sup>1</sup> Crown Radius	. T.S Knuckle Rediue	Elliptical Ratio	(5) Material Conical Apex Angle	No. of Courses . Kemispherical Radius	T.S Flat Diameter	Side to Press. (Conv. or Cone
5.	Heads (a) Top,	Girth (a) Material Location , bottom, ends	H.	Crown Radius	T.S Knuckie Redius	Elliptical Ratio	_ (5) Material Control Apex Angle	No. of Courses . Kemispherical Redius	Flat Diameter	Side to Press. (Conv. or Conc
3.	Heads (a) Top,	Girth (a) Material Location , bottom, ends	H.	Crown Radius	T.S Knuckie Redius	Elliptical Ratio	_ (5) Material Control Apex Angle	No. of Courses . Kemispherical Redius	Flat Diameter	Side to Press. (Conv. or Conc.
3.	Heads (a) Top,	Girth (a) Material Location , bottom, ends	H.	Crown Radius	T.S Knuckie Redius	Elliptical Ratio	_ (5) Material Control Apex Angle	No. of Courses . Kemispherical Radius her fascening	Flet Dismoter Describe or a	Side to Press. (Conv. or Cone.
3.	Heads (a) Top,	Girth (a) Material Location , bottom, ends	H.	Crown Radius	T.S Knuckie Redius	Elliptical Ratio	_ (5) Material Control Apex Angle	No. of Courses . Hemispherical Redius her fascening Drop W Charpy	T.S Flat Diameter  Describe or a eight	Side to Press, (Conv. or Conc 
	Heads (a) Top. (b) Char If remov	Girth (a) Material Location , bottom, ends	H. Thickness  ed (4)	Crown Radius	T.S Knuckie Rediue		_ (5) Material Control Apex Angle	No. of Courses . Hemispherical Redius her fascening Drop W Charpy	T.S. Flat Diameter Describe or a eight	Side to Press, (Conv. or Conc 
<b>.</b>	Heads (a) Top, (b) Char If remov Design	Girth (a) Material Location , bottom, ends anel vable, bolts us pressure <sup>2</sup>	H	Crown Rediue	. T.S Knuckle Redius 		_ (5) Material Control Apex Angle	No. of Courses . Hemispherical Redius her fascening Drop W Charpy	T.S Flat Diameter  Describe or a eight Impact	Side to Press. (Conv. or Conc 
4.	Heads (a) Top, (b) Char If remov Design	Girth (a) Material Location , bottom, ends anel able, bolts us	H	Crown Rediue	. T.S Knuckle Redius 		_ (5) Material Control Apex Angle	No. of Courses . Hemispherical Redius her fascening Drop W. Charpy 3F at temp	T.S Flat Diameter  Describe or a eight Impact	Side to Press. (Conv. or Cone. 
4. 	Heads (a) Top, (b) Chai If remov Design	Girth (a) Material Location , bottom, ends anel rable, bolts us pressure <sup>2</sup> to be complete	Thickness Thickness ed (a) ed (or all ves	Crown Radius (b	T.S. Knuckle Rediue 		(b) Material Conical Apes Angle Od	No. of Courses . Hemispherical Redius her fascening Drop W. Charpy 3F at temp	T.S Flat Diameter  Describe or a eight Impact	Side to Press, (Conv. or Cone 
•. • • • • • •	Heads (a) Top, (b) Chai If remov Design	Girth (a) Material Location , bottom, ends anel rable, bolts us pressure <sup>2</sup> to be complete falve Outlets:	Thickness Thickness ed (a) ed (or all ves	Crown Radius (b	T.S. Knuckle Rediue 		(b) Material Conical Apes Angle Od	No. of Courses . Hemispherical Redius her fascening Drop W. Charpy 3F at temp	T.S Flat Diameter  Describe or a eight Impact	Side to Press. (Conv. or Conc 
	Heads (a) Top, (b) Chai If remov Design s below Safety V	Girth (a) Material Location , bottom, ends anel rable, bolts us pressure <sup>2</sup> to be complete falve Outlets:	Thickness Thickness ed (a) ed (or all ves	Crown Radius (b	T.S. Knuckle Rediue 		(b) Material Conical Apes Angle Od	No. of Courses . Hemispherical Redius her fascening Drop W Charpy _3F 44 temp	T.S Flat Diamoter  Describe or a eight Impact of forcement	Side to Press. (Conv. or Cone 
	Heads (a) Top, (b) Char If remov Design (s) below Safety V Nozzies	Girth (a) Material Location , bottom, ends anel rable, bolts us pressure <sup>2</sup> to be complete (alve Outlets: :: - inlet.	H. Thickness ed (a) ed (or all ves .Number	Crown Radius (b	T.S. Knuekte Rediue  psi ac size		(b) Material Conical Apes Angle Od	No. of Courses . Hemispherical Radius her lascening Drop W Charpy _9E it temp	T.S Flat Diameter  Describe or a eight Impact	Side to Press. (Conv. or Conc 
•. • • • • • •	Heads (a) Top, (b) Chai If remov Design Safety N Nozzles Purpose	Girth (a) Material Location , bottom, ends anel rable, bolts us pressure <sup>2</sup> to be complete (alve Outlets: :: - inlet.	H. Thickness ed (a) ed (or all ves .Number	Crown Radius (b	T.S. Knuekte Rediue  psi ac size		(b) Material Conical Apes Angle Od	No. of Courses . Hemispherical Redius her fascening Drop W Charpy _3F 44 temp	T.S Flat Diamoter  Describe or a eight Impact of forcement	Side to Press. (Conv. or Cone 
•. • • • • • •	Heads (a) Top, (b) Chai If remov Design Safety N Nozzles Purpose	Girth (a) Material Location , bottom, ends anel rable, bolts us pressure <sup>2</sup> to be complete (alve Outlets: :: - inlet.	H. Thickness ed (a) ed (or all ves .Number	Crown Radius (b	T.S. Knuekte Rediue  psi ac size		(b) Material Conical Apes Angle Od	No. of Courses . Hemispherical Redius her fascening Drop W Charpy _3F 44 temp	T.S Flat Diamoter  Describe or a eight Impact of forcement	Side to Press. (Conv. or Cone 
•. • • • • • •	Heads (a) Top, (b) Chai If remov Design Safety N Nozzles Purpose	Girth (a) Material Location , bottom, ends anel rable, bolts us pressure <sup>2</sup> to be complete (alve Outlets: :: - inlet.	H. Thickness ed (a) ed (or all ves .Number	Crown Radius (b	T.S. Knuekte Rediue  psi ac size		(b) Material Conical Apes Angle Od	No. of Courses . Hemispherical Redius her fascening Drop W Charpy _3F 44 temp	T.S Flat Diamoter  Describe or a eight Impact of forcement	Side to Press. (Conv. or Cone 
e.	Heads (a) Top, (b) Char (b) Char If remov Design Safety V Nozzle s Purpose Outlot, Inspecti	Girth (a) Material Location , bottom, ends anel rable, bolts us pressure <sup>2</sup> to be complete (alve Outlets: ;; . Intet, Drun; ;; on Manholes,	H. Thickness  ed (a) ed for all ves Number fumber fumber No	Crown Radius (b (b (b ) ssels where Dia. or Size	T.S Knuezce Rediue  psi at e applicable Size Type 	R.T Ellipptices Resise (c) e. L e L c L c L c L		No. of Courses . Hemispherical Redius her fascening Drop W Charpy _9F is temp  chness Mi	T.S Flat Dismeter  Describe or a eight Impact of forcement kertal	Side to Press. (Coav. or Cone. 
4. em 5.	Heads (a) Top, (b) Char (b) Char If remov Design Safety V Nozzle s Purpose Outlot, Inspecti	Girth (a) Material Location , bottom, ends anel rable, boits us pressure <sup>2</sup> (o be complete (alve Outlets: 	H. Thickness  ed (a) ed for all ves Number Number fumber  No 8, No		T.S Knuezle Redius  psi at e applicable Size Type  ze	R.T Elliptical Resise (c) e. L e Max. L c. L c.		No. of Courses . Hemispherical Redius her fascening Drop W Charpy _ F at temp  Reim chness Mi	T.S Flat Dismeter  Describe or a eight Impact of forcement kertal	Side to Press. (Coav. or Cone. 
4. 	Heads (a) Top, (b) Char (b) Char (c) Ch	Girth (a) Material Location , bottom, ends anel rable, boits us pressure <sup>2</sup> to be complete (alve Outlets: ;; . intet, Drun; ;; . Manholes, s: Handholes, Thresded,	H. Thickness ed (a) ed (a) ed for all ves Number Number Number Na		T.S Knuezle Redius  psi at e applicable Size Type  ze	R.T Elliptical Reside		No. of Courses . Hemispherical Redius her fascening Drop W Charpy _ F at temp  Reim chness Mi	T.S Flat Dismeter  Describe or a eight Impact of (preement storial	Side to Press (Conv. or Cone 

List ather une e att concident-lemponeum anen opplicible. al or estu

	REPORT NO. P0059-009
	Sheet 2 of 2
	vision of the ASME Code Rules, Section III. Div. 1 (1013-037) (38 446)
unufactured by General Electric	Company, Castle Hayne Rd., Wilmington, N.C.
	Company, San Jose, California (NEBG) e and address of N Certificate Holder for completed suclear componenti
fication-Certificate Holder's Serial No. of Part	A4269Nat'l Bd. No
constructed According to Drawing No. 70	68E534G001 Drawing Prepared by D. L. Peterson
escription of Part Inspected Con	ntrol Rod Drive, Model #7RDB144DG001
pplicable ASME Code: Section III, Edition_	N207 1974, Addenda dare, Case NoClass
· .	
SA182 - F316	Code weld
3/8 thick x 1 1/16 0D	P50YP102
Indicator Pipe 166E9313P1	
SA312-TP316	
	Reactor vessel
Plug 159A1176P1	
SA182-F304	
1/4 thick x 0.812 OD	
Flange_919D610P1 (719E474)	Çode weld
neck 1 $1/16$ thick x 5.0 00	
2.875 ID	
Ŷ	
Base 137C5311P1	
XM-19 ASME SA479	
3.0 0D X .884 ID	
• • • • • • • • • • • • •	
	Code weld P50YP102
Cap Screw 117C4516P2	
SA193-B6	CONTROL ROD DRIVE
6 ea. 1/2 dia. on 4 1/8 bolt	circle DWG - 768E534
Plug 175A7961P1	9. Nut 137C5934P1
SA182-F304	XM-19 SA479 1.30 thick x 2.62 dia. 00895
34102-1344	
	As required by the Prov mufactured by <u>General Electric (</u> mufactured for <u>General Electric (</u> mathematicate Holder's Serial No. of Part on structed According to Drawing No. <u>76</u> escription of Part Inspected <u>Con</u> pplicable ASME Code: Section III, Edition <u></u> (167A2343) SA182 - F316 3/8 thick x 1 1/16 0D Indicator Pipe 166E9313P1 SA312-TP316 3/4 sch 40-seamless pipe 0.113 Wall thickness 1.065 max. dia. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 00 neck 1 1/16 thick x 5.0 0D 2.875 ID Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID Cap Screw 117C4516P2

-

٠

•

•

. .

REPORT	NO.	P0059-009
--------	-----	-----------

Applicable ASME Code: Section III, Edition 1974, Addenda date 175, Case No. 13 atta: Standard part for use with Reactor. Hydrostatically tested (Brief description of swrips for which component was designed) * Total number of sheets - 2 errify that the statements made in this report are correct and this vessel part or appurtenance of the rules of construction of the ASME Code Section III. Addenda Specification and Stress Report are correct and this vessel part or appurtenance of the rules of construction of the ASME Code Section III. Addende Design Specification and Stress Report are not the responsibility of the NPT Certificate Hold Micro appurtenances is responsible for furnishing a separate Design Specification and Stress Report. 5/1 19.81 Signed GE, NEPD-WED-QA Ger Certificate Holder is Holder in the Asther Code to de rules of Asthorization Expires. June 16, 1981 Certificate of Addhorization No CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable ps information on file at GE, NEPD-WED-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1 a saalysis report on file at GE, NEPD-WED-QA, Castle Hayne Rd., Wilmington, 4912, Rev. 2 as especifications certified by B. N. Sridhar Prof. Eag. State Cal CERTIFICATE OF SHOP INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Press or the State of North Carolina have inspected the part of a pressure ve al Data Report of I be appendent appendent of Labo State of North Carolina have inspected the part of a pressure ve al Data Report of a this partial Data Report. Furthermore, acither the Inspect be liable in any manner for any personal injury or property damage or a loss of any tind arity the spectificate Holder has constructed this part in accordance with the ASME Code Section the liable in any manner for any personal injury or property damage or a loss of any tind arity the liable in any manner for any personal injury or property damage or a loss of any tind arity in appendix and the respondent for any	() () () () () () () () () ()
Class and address of Net Certificats Holder's Series 1 Standard for Certificats Holder's General Electric Company, San Jose, California (NEEK Class and address of Netherland No. of Part	eterson 07 01-2 lass 1 1 1820 psi.
Class and address of Net Certificats Holder's Series 1 Standard for Certificats Holder's General Electric Company, San Jose, California (NEEK Class and address of Netherland No. of Part	etarson Gatarson 07 1-2_Class1 1t 1820 psi.
Utame and softene of N Certificate Holder for composed unclear composed Hiferiton-Certificate Holder's Serial No. of Part <u>A5681</u>	etarson O7 01-2_class1 1t 1820 psi. s defined in the Code
thestica-Certificate Holder's Serial No. of Part	Peterson 07 51-2 1 1 1820 psi. 1 1820 psi.
Conservenced According to Drawing No. 7682534G001 Drawing Prepared by D. L. Control Rod Drive, Model #7RDB144DG001 Applicable ASME Code: Section III, Edition 1974 Addendadate W'75, Case No. 13 arks. Standard part for use with Reactor. Hydrostatically tested (Drief description of section III, Edition 1974 Addendadate W'75, Case No. 13 arks. Standard part for use with Reactor. Hydrostatically tested (Drief description of section III, Edition 1974 Addendadate W'75, Case No. 13 arks. Standard part for use with Reactor. Hydrostatically tested (Drief description of section III, Edition 1974 Addendadate W'75, Case No. 13 arks. Standard part for use with Reactor. Hydrostatically tested (Drief description of section III, Edition 2006) * Total number of sheats - 2 crify dustice statements made in this report are correct and this vessel part or apputenance of the rules of construction and Stress Report are not the reponsibility of the NPT Certificate Holder (Drief description and Stress Report are not the reponsibility of the NPT Certificate Holder is the component Design Specification and Stress Report are of Authorization Expires June 16, 1981 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable pi information on file ar GE, NEPD-RED-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1 a sanayles report on file ar GE, NEPD-RED-QA, Castle Hayne Rd., Wilmington, 4912, Rev. 2 pa specifications certified by B. N. Sridhar Prof. Eag. State Cal CERTIFICATE OF SHOP INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Pres- prof. Eag. State Cal CERTIFICATE OF SHOP INSPECTION the andersigned, holding a valid commission issued by the National Board of Boiler and Pres- pice the State of Province of Morth Carolina and employed by Department of Labo State of North Carolina have insport. Firthermore, acither the Inspect the light in the SAME Code fector of the part in the SAME Code fector y signing this certificate Holder has constructed this parts in mace any	07 51-2_1 it 1820 pai.
Control Rod Drive, Model \$7RDB144DG001           Applicable ASME Code: Section III, Edition         1974         Addenda daze         W'75         Case No.         13           arts:         Standard part for use with Reactor. Hydrostatically tested         (Brief description of service for which component was designed)           * Total number of sheats - 2           crify datche statements made in this report are correct and this vessel part or appartenance is the released construction of the ASME Code Section III.           Altable Design Specification and Stress Report are not the responsibility of the NFT Certificate Hold for furnishing a separate Design Specification and Stress Report.           5/1         19           Signed         GE, NEPD-120-QA           corr Certificate of Addocization Not Stress Report.         Br           Stress Export         June 16, 1981           corr Certificate of Addocization Not Stress Report.         Certificate of Addocization Not Stress Report.           corr Certificate of Exponsible for furnishing to a separate Design Specification Not Stress Report.         Stress Report.           ste of Authorization Expires         June 16, 1981         Certificate of Addocization Not CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable as analysis report on file at GE, NEPD-WAD-QA, Castle Hayne Rd., Wilmington, S556, Rev. 1           s analysis report certified by	07 51-2_1 it 1820 pai.
Applicable ASME Code: Section III, Edition 1974, Addenda dare W'75, Case No. 13 Applicable ASME Code: Section III, Edition 1974, Addenda dare W'75, Case No. 14 arks: Standard part for use with Reactor. Hydrostatically tested (Brief description of swrites for which component was designed) * Total number of sheats - 2 entify that the statements made in this report are correct and this vessel part or apputtenance of the rules of construction of the ASME Code Section III. Alcable Design Specification and Stress Report are not the responsibility of the NFT Certificate Hold for the roles of construction of the ASME Code Section III. Alcable Design Specification and Stress Report are not the responsibility of the NFT Certificate Hold for for apputtenances is responsible for furnishing a separate Design Specification and Stress Report.) 5/1 19 <u>81</u> Signed <u>GE</u> , NEPD-WHD-QA <u>GWFT Certificate Hold</u> Br CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable is information on file ar <u>GE</u> , NEPD-WHD-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1 a analysis report on file ar <u>GE</u> , NEPD-WHD-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 2 pa specifications certified by <u>B. N. Sridhar</u> Prof. Eng. Scare Cal <b>CERTIFICATE OF SHOP INSPECTION</b> the undersigned, holding a valid commission insued by the National Board of Boiler and Pres- ste of North Carolina have inspected the part of pressure ve al Data Report on <u>Strid Carolina</u> and employed by <u>Department of Labo State of North Carolina have inspected the part of spressure ve al Data Report on <u>Stride</u> to the second of the ASME code Section stand the described in this Partial Data Report. Parthermore, ac there the inspect be jail descrifticate Holder has constructed the part of acced act which the ASME Code Section stand the inspection.</u>	1 1 1 1820 pai.
arks:       Standard part for use with Reactor. Hydrostatically tested (Brief description of services for which component was designed)         * Total number of sheats - 2         * Total number of sheats - 2         entify that the standard is and in this report are correct and this vessel part or appurtenance of the rales of construction and Stress Report is no the responsibility of the NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report is the component Design Specification and Stress Report.         5/1       19         5/1       19         Signed       GE, NEPD-WED-QA         00PT Cartificate Holder is Holder         set of Authorization Expires.       June 16, 1981         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable is information on file at GE, NEPD-WED-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1         s analysis report certified by	at 1820 psi.
(Brief description of service for which component was designed)  * Total number of sheats - 2  crify that the statements made in this seport are correct and this vessel part or appurtenance of the rales of construction of the ASME Code Section II.  states of appurtenances is responsible for furnishing a separate Design Specification and Stress Report  5/1 19.81 Signed GE, NEPD-WED-QA GOVY Continues Holder to Asther the part of Authorization No CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable painformation on file as GE, NEPD-WED-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1  s santysis report on file as GE, NEPD-WED-QA, Castle Hayne Rd., Wilmington, 4912, Rev. 2  pa specifications centified by B. N. Sridhar Prof. Eng. State Cal CERTIFICATE OF SHOP INSPECTION  the undersigned, holding a valid commission issued by the National Board of Boiler and Pres or the State of North Carolina and employed by Department of Labo State of North Carolina have inspected the part of a pressure re al Data Report of in this Partial Data Report on this employed by Department of Labo State of North Carolina have inspected the part of a pressure re al Data Report of in the Spring Prof. Eng. State of North Carolina have inspected the part of a pressure re al Data Report of in the secondard the part in accordance with the ASME Code Section be liable in any manner for any personal lajury or property damage or a loss of any kind ari dis inspection.	s defined in the Code
* Total number of sheats - 2 crify that the statements made in this report are correct and this vessel part or appurtunance of the rules of construction of the ASME Code Section III. Alcable Design Specification and Stress Report are not the responsibility of the NPT Certificate Hold key for appurtunances is responsible for furnishing a separate Design Specification and Stress Report. 5/1 19.81 Signed <u>GE</u> , NEPD-W2D-QA <u>GET Certificate Holdern</u> are of Authorization Empires. June 16, 1981 Certificate of Authorization No CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable p information on file at <u>GE</u> , NEPD-W2D-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1 a snalysis report on file at <u>GE</u> , NEPD-W2D-QA, Castle Hayne Rd., Wilmington, 4912, Rev. 2 pa specifications certified by <u>B. N. Sridhar</u> prof. Eng. State <u>Carolina</u> and employed by <u>Department of Labor State of North Carolina and employed by <u>Department of Labor</u> state of North Carolina have inspected the part of a pressure ve al Data Report on Jet Revision of a pressure ve al Data Report on the seconstructed this part in accordance with the ASME Code Section y ingling this certificate Holder has constructed this part in accordance with the ASME Code Section y ingling this certificate, achieve the lapper to allow are inspected the part of a pressure verifies the part described in this Partial Data Report. Purce, a set loss of any key and the aspective the lisble in any manner for any personal lapper or property damage or a loss of any kind at this is appective. 5/1 81</u>	
ertify that the statements made in this report are correct and this vessel part or appurtenance of the ASME Code Section III. Michable Design Specification and Stress Report are not the responsibility of the NTT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.) 5/1 19.81 Signed CE, NEPD-WED-QA Br Certificate Folder of Authorization Not CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable for furnishing a superstructure of Authorization Not CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable is information on file as GE, NEPD-WED-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1 a saalysis report on file as GE, NEPD-WED-QA, Castle Hayne Rd., Wilmington, 6556, Rev. 2 pa specifications certified by B. N. Stidhar Prof. Eng. State Cal CERTIFICATE OF SHOP INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure to a file store of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure to a librar for the state of North Carolina have inspected the part of a pressure to a librar for the state coll for the state of the state the state of the state the state of the state the state of the state the state of the state code formation of the state code state the state of the	
the males of construction of the ASHE Code Section III. Alcable Design Specification and Stress Report are not the responsibility of the NPT Certificate Hold der for appartenances is responsible for furnishing a separate Design Specification and Stress Report.) 5/1 19.81 Signed <u>GE</u> , NEPD-WHD-QA <u>BT</u> <u>Certificate of Asthorization Networks Holder</u> ace of Authorization Expires June 16, 1981 Certificate of Asthorization Networks Holder (CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable ps information on file at <u>GE</u> , NEPD-WHD-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1 s analysis report on file at <u>GE</u> , NEPD-WHD-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 2 ps specifications certified by <u>B. N. Sridhar</u> Prof. Eng. Scare <u>Cal</u> s analysis report certified by <u>B. N. Sridhar</u> Prof. Eng. Scare <u>Cal</u> CERTIFICATE OF SHOP INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Press of the State of North Carolina have inspected the part of a pressure ve al Data Report on this Partial Data Report. Furthermore, meither the inspect be left, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section wing the scentber the laspector so has employed by <u>Department of Labor</u> State of North Carolina have inspected the part of a pressure ve al Data Report on this partial Data Report. Furthermore, meither the inspect the lishe in any manner for any personal injury of property damage or a loss of any kind ard this inspection. 5/1 81	
the males of construction of the ASHE Code Section III. Alcable Design Specification and Stress Report are not the responsibility of the NPT Certificate Hold der for appartenances is responsible for furnishing a separate Design Specification and Stress Report.) 5/1 19.81 Signed <u>GE</u> , NEPD-WHD-QA <u>BT</u> <u>Certificate of Asthorization Networks Holder</u> ace of Authorization Expires June 16, 1981 Certificate of Asthorization Networks Holder (CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable ps information on file at <u>GE</u> , NEPD-WHD-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1 s analysis report on file at <u>GE</u> , NEPD-WHD-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 2 ps specifications certified by <u>B. N. Sridhar</u> Prof. Eng. Scare <u>Cal</u> s analysis report certified by <u>B. N. Sridhar</u> Prof. Eng. Scare <u>Cal</u> CERTIFICATE OF SHOP INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Press of the State of North Carolina have inspected the part of a pressure ve al Data Report on this Partial Data Report. Furthermore, meither the inspect be left, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section wing the scentber the laspector so has employed by <u>Department of Labor</u> State of North Carolina have inspected the part of a pressure ve al Data Report on this partial Data Report. Furthermore, meither the inspect the lishe in any manner for any personal injury of property damage or a loss of any kind ard this inspection. 5/1 81	
19 Segred	er for parts. An NPT Ce t if the appurtenance is
are of Authorization ExpiresJune 16, 1981Certificate of Authorization Not CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable GE, NEPD-WD-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1 s analysis report on file at GE, NEPD-WD-QA, Castle Hayne Rd., Wilmington, 4912, Rev. 2 pa specifications certified byB. N. SridharProf. Eng. State Cal s analysis report certified byB. N. SridharProf. Eng. State Cal CERTIFICATE OF SHOP INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Press or the State or Province of <u>North Carolina</u> and employed by <u>Department of Labo</u> State of North Carolina have inspected the part of a pressure ve al Data Report on	denmin
GE, NEPD-WED-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1 s analysis report on file ar <u>GE</u> , <u>NEPD-WED-QA</u> , <u>Castle Hayne Rd.</u> , <u>Wilmington</u> , 4912, Rev. 2 pa specifications certified by <u>B. N. Sridhar</u> Prof. Eng. State <u>Cal</u> s analysis report certified by <u>B. N. Sridhar</u> Prof. Eng. State <u>Cal</u> CERTIFICATE OF SHOP INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Press or the State of Province of <u>North Carolina</u> and employed by <u>Department of Labo</u> State of North Carolina have inspected the part of a pressure ve al Data Report on <u>5/1</u> 18 <u>81</u> , and state that to to wellef, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section signing this certificate Holder has constructed this part in accordance with the ASME Code Section signing this certificate Holder has constructed this part in accordance with the ASME Code Section signing this certificate Holder has constructed this part in accordance with the ASME Code Section signing this certificate Holder has constructed the spector sore, as it on a press the part described in this Partial Data Report. Furthermore, as loss of any kind ard this inspection. 5/1 81	NPT N-1151
GE, NEPD-WED-QA, Castle Hayne Rd., Wilmington, 5556, Rev. 1 s analysis report on file ar <u>GE</u> , <u>NEPD-WED-QA</u> , <u>Castle Hayne Rd.</u> , <u>Wilmington</u> , 4912, Rev. 2 pa specifications certified by <u>B. N. Sridhar</u> Prof. Eng. State <u>Cal</u> s analysis report certified by <u>B. N. Sridhar</u> Prof. Eng. State <u>Cal</u> CERTIFICATE OF SHOP INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Press or the State of Province of <u>North Carolina</u> and employed by <u>Department of Labo</u> State of North Carolina have inspected the part of a pressure ve al Data Report on <u>5/1</u> 18 <u>81</u> , and state that to to wellef, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section signing this certificate Holder has constructed this part in accordance with the ASME Code Section signing this certificate Holder has constructed this part in accordance with the ASME Code Section signing this certificate Holder has constructed this part in accordance with the ASME Code Section signing this certificate Holder has constructed the spector sore, as it on a press the part described in this Partial Data Report. Furthermore, as loss of any kind ard this inspection. 5/1 81	.)
gn information on file at <u>GE</u> , <u>NEPD-WMD-QA</u> , <u>Castle Eavne Rd</u> ., <u>Wilmington</u> , 4912, Rev. 2 gn specifications certified by <u>B. N. Sridhar</u> Prof. Eng. State <u>Cal</u> s analysis report certified by <u>B. N. Sridhar</u> Prof. Eng. State <u>Cal</u> CERTIFICATE OF SHOP INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Press or the State of Province of <u>North Carolina</u> and employed by <u>Department of Labo</u> State of North <u>Carolina</u> have inspected the part of a pressure ve al Data Report on <u>5/1</u> 19 <sup>81</sup> , and state that to the selicit, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section y signing this certificate, acits part and Data Report. Eng. State of any kind arist the part described in this part and Data Report on suppersonal injury or property damage or a loss of any kind arist be liable in any manner for any personal injury or property damage or a loss of any kind arist this inspection.	
4912, Rev. 2         ga specifications certified by	
ga specifications certified by <u>B. N. Sridhar</u> Prof. Eng. State <u>Cal</u> s analysis report certified by <u>B. N. Sridhar</u> Prof. Eng. State <u>Cal</u> <u>CERTIFICATE OF SHOP INSPECTION</u> the undersigned, holding a valid commission issued by the National Board of Boiler and Press or the State of Province of <u>North Carolina</u> and employed by <u>Department of Labo</u> <u>State of North Carolina</u> have inspected the part of a pressure ve al Data Report on <u>5/1</u> 1981, and state that to to bellef, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section y signing this certificate, acither the Inspecto sor his employer makes any warranty, express the part described in this Partial Data Report. Furthermore, meither the Inspect be liable in any manner for any personal injury or property damage or a loss of any kind ari this inspection.	N.C.
CERTIFICATE OF SHOP INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Press or the State of Province of <u>North Carolina</u> and employed by <u>Department of Labor</u> State of North Carolina have inspected the part of a pressure ve al Data Report on <u>5/1</u> 1981, and state that to the selief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section y signing this certificate, seither the Inspector sor his employer makes any warranty, express the part described in this Partial Data Report. Furthermore, a melther the Inspect be liable in any manner for any personal injury or property damage or a loss of any kind arit this inspection. 5/1 81	f Reg. No.18345
the undersigned, holding a valid commission issued by the National Board of Boiler and Press the State of Province of <u>North Carolina</u> and employed by <u>Department of Labor</u> <u>State of North Carolina</u> have inspected the part of a pressure ve al Data Report on <u>5/1</u> 1981, and state that to the belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section y signing this certificate, seither the Inspector sor his employer makes any warranty, express the part described in this Partial Data Report. Furthermore, meither the Inspect be liable in any manner for any personal injury or property damage or a loss of any kind arity this inspection. 5/1 81	É Reg. No. 18345
or the State of Province of <u>North Carolina</u> and employed by <u>Department of Labo</u> State of North Carolina have inspected the part of a pressure ve al Data Report on <u>5/1</u> 1981, and state that to to velicif, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section y signing this certificate, seither the Inspector sor his employer makes any warranty, express the part described in this Partial Data Report. Furthermore, acither the inspect be liable in any manner for any personal injury or property damage or a loss of any kind ari this inspection. 5/1 81	
or the State of Province of <u>North Carolina</u> and employed by <u>Department of Labo</u> State of North Carolina have inspected the part of a pressure ve al Data Report on <u>5/1</u> 1981, and state that to to velicif, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section y signing this certificate, seither the Inspector sor his employer makes any warranty, express the part described in this Partial Data Report. Furthermore, acither the inspect be liable in any manner for any personal injury or property damage or a loss of any kind ari this inspection. 5/1 81	we Vegest Income
al Data Report on <u>5/1</u> 1981, and state that to the belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section y signing this certificate, seither the Inspector sor his employer makes any warranty, express the part described in this Partial Data Report. Furthermore, another the inspect be liable in any manner for any personal injury or property damage or a loss of any kind arithis inspection. 5/1 81	a •
belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section y signing this certificate, meither the Inspector nor his employer makes any warranty, express the part described in this Partial Data Report. Furthermore, meither the Inspect be liable in any manner for any personal injury or property damage or a loss of any kind ari this inspection. 5/1 81	e best of my knowledge
5/1 . 81	II. d or implied, concern- r nor his employer
N.C. 723,P	WC1766 0410
Laspector's Signature Commissions Mational Board, State,	ination allia
vistal phoets in form of lists, skotches or drawings may be used provides (1) size is 8%** z 11**, (2) information in kome b rt is included as each short, and (2) each short is sumbared and sumber of shorts is recorded in tung 2, "Remarks".	
This form (E000.40) may be obtained from the Order Dept., ASME, 345 E. 4	Province and No.
96	Province and No.

4,				No	minal	Corre	sion			······
	Shell:	Macerial (Kind &	Jpec. No.) (Mis	, of Range St	ickness	_ ia. Allor	rancein.	Dia ft,	in. Length_	ft is
5.	Seams									
		C:	u	<b>~ 1</b>		9 <b>T</b>		No. of Com		
6.	Heada								T.S	
		Location	Thickness	Crown	Kouckie	Eliptical	Conicai Apes Angle	Hemispher	ical Flat	Side to Press. (Conv. or Conc
										·
								mins		•
			(Mater	tet, Spee. N	., T.S., Str	, Number)			(Describe or stte	th sketch)
7.	Jacket	Closures	ribe se ogee and	weld, her, at	c. If has size	dimensione	If holted, deace	he or shatch		
		(0000					a source of concert	D	rop. Weight	
4	Desico	DIES MILES	1250				575	°F C	temp. of	fr-
9.					par	·			(emp. 0)	
ten	18-9 and	10 to be com	pleted for tube	sections.						
_			<u></u>			······································				
9.	Tube S	heers: Station	ary. Material_	Kind b Soe	Di	(Subject te	Thic	kaess i	a. Attachment	Welded, Bolted)
0.	Tubes:	Material	· g. macial,	0.D.	ia Thi	ckness	inches	Number	n. AttachmentTyp	•
				,						(Str. or U)
tea	s 11-14	fincl. to be c	completed for i	aner chant	ers of jac	keted vesse	is, or channe	s of heat e	schangers.	•
				Ng	minel	Corre	sioa			
2,	Senna:									
	**								105	
5.	nesas	(a) Material _					• •		T.S	•
	(a) <b>T</b>		Thickness-	Radius-		Ratio				Side to Press. (Conv. or Conc.
	(b) Che									<b> </b>
	(b) Cha If remo	aael					<del>.</del>			
	•••	aael					<del>.</del>	her fastenie	(Describe or i	
	If remo	nael vable, bolts s	used (a)	(b		(c)	Öt	her fastenit Di	(Describe or ) op Weight	(~!
14.	If remo	aael	used (a)	(b		(c)	Ōt	her fastenit Di Ci °F st	(Describe or i rop Weight arpy Impact temp. of	
	lf remo Design	nnel vable, bolts u pressure <sup>3</sup>	used (a)	(b	psi at	(c)	Ōt	her fastenit Di	(Describe or i rop Weight arpy Impact temp. of	
	lf remo Design	nnel vable, bolts u pressure <sup>3</sup>	used (a)	(b	psi at	(c)	Ōt	her fastenit Di Ci °F st	(Describe or i rop Weight arpy Impact temp. of	
tea	lf remo Design	nnel vable, bolts u pressure <sup>2</sup>	used (a)	(b	psi at	(c)	Ŏŧ	her fastenic Di Ci _°F at	(Describe or ( cop Weight sarpy Impact temp. of	
tea 15.	lf remo Design is below Safety Nozzle	nnei vable, bolts u pressure <sup>3</sup> to be comple Valve Outlets st	ased (a)	(b	psi at	(c)	Ŏŧ	her fastenic Di Ci _°F at	(Describe or ( cop Weight supy Impact temp. of	
tem 15.	lf remo Design s below Safety Nozzle Purpos	nnel vable, bolts u pressure <sup>2</sup> v to be comple Valve Outlets si e (Iniet,	ased (a)	(b	psi at psi at spplicabl	(c)  e. L	Ot	her fastenic Di Ci _°F st	(Describe or ( cop Weight sarpy Impact temp. of	
tem 15.	lf remo Design s below Safety Nozzle Purpos	nnei vable, bolts u pressure <sup>3</sup> to be comple Valve Outlets st	ased (a)	(b	psi at psi at spplicabl	(c)  e. L	Ot	her fastenic Di Ci _°F at	(Describe or ( op Weight tarpy Impact temp. of Reinforcement	[10] 0 0
tea 15.	lf remo Design s below Safety Nozzle Purpos	nnel vable, bolts u pressure <sup>2</sup> v to be comple Valve Outlets si e (Iniet,	nsed (a) eted for all ves k: Number Number	(b)	psi at applicabl Size Typ		ocation	ckness	(Describe or i op Weight tarpy Impact temp. of Reinforcement Material	[10] 0 0
lte#	lf remo Design s below Safety Nozzle Purpos	nnel vable, bolts u pressure <sup>2</sup> v to be comple Valve Outlets si e (Iniet,	nsed (a) red for all ves R Number Number	(b) sels where Dia, or Size	psi at applicabl Size Typ		ocatioa	ckness	(Describe or i op Weight tarpy Impact temp. of Reinforcement Material	[10] 0 0
tem 15. 16.	If remo Design s below Safety Nozzle Purpos Outlet, Inspect	nnel vable, bolts u pressure <sup>3</sup> to be comple Valve Outlets st e (Iniet, , Drmin) 	nsed (a) red for all ves k: Number Number s, No	(b)	psi at applicabl Size Typ		OCation	ckness	(Describe or i op Weight	How Attacked
item 15. 16.	If remo Design s below Safety Nozzle Purpos Outlet, Inspect	nael vable, bolts u pressure <sup>2</sup> to be comple Valve Outlets st e (iniet, , Drain)  tion Manhole gs: Handhol	sed (a)	(b)		e. (c) e. L e. Locis Locis	ocation	ckness	(Describe or i op Weight	How Attached
15. 16.	If remo Design s below Safety Nozzle Purpes Outlet Inspect Qpenin	nnel vable, bolts u pressure <sup>2</sup> v to be comple Valve Outlets sz e (iniet, , Drain)  tion Manhole gzt Handhol Threade	sed (a)	Dia, or Size			ocatioa	ckmess	(Describe or i cop Weight	How Attached
Item 15. 16. 17.	If remo Design E below Safety Nozzle Purpes Outlet Inspect Qpenin	nnel vable, bolts u pressure <sup>2</sup> v to be comple Valve Outlets sz e (iniet, , Drain)  tion Manhole gzt Handhol Threade	sed (a)	Dia, or Size			ocatioa	ckmess	(Describe or i op Weight	How Attached

## FORM N-2 (back)

		REPORT NO. P0059-009
		Sheet 2 of 2
and in the	•	
.*		DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
	As required by the Provision	ion of the ASME Code Rules, Section III, Div. 15 1813-037 7 10
		5 40 02 467
	General Electric Con	mpany, Castle Havne Rd., Wilmington, N.C.
(a) Mi		mpany, Castle Hayne Rd., Wilmington, N.C. (Name and address of NFT Certificate Holder)
(b) Mi		mpany, San Jose, California (NEBG)
Identi	fication-Certificate Holder's Serial No. of Part 🛖	A5681Nar'i Bd. No
	Constructed According to Drawing No7681	D. L. Peterson
	•	
		rol Rod Drive, Model #7RDB144DG001 N207
(c) A	pplicable ASME Code: Section III, Edition _19	74, Addenda dateW'75 Case No. 1361-2 Class1
	· · · · ·	
-		
1.	Cap 166B9274P1	U
	(167A2343)	Code vield
	SA182 - F316	
	3/8 thick x 1 1/16 00	P50YP102
2.	Indicator Pipe 166B9313P1	
	SA312-TP316	
	3/4 sch 40-seamless pipe	
	0.113 wall thickness	
	1.065 max. dia.	Reactor vessel
	•	thimble
3.	Plug 159A1176P1	
	SA182-F304	
	1/4 thick x 0.812 0D	
·	·	
٤.	Flange 9190610P1 (719E474)	Code weld
- <b>T</b> •	SA182-F304	R50YP102
	3.37 thick x 9 5/8 0D	
	neck 1 1/16 thick x 5.0 0D	
	2.875 ID	
5	Base 13705311P1	
Ψ	XM-19 ASME SA479	
	3.0 OD x .884 ID	
	414 00 X .004 ID	
~		
0.	Ring-Flange 11485122P2	
	SA182-F304	L-Code weld
	1" thick x 5.0 0D x 1.75 ID	P50YP102
7.	Cap Screw 117C4516P2	
	SA193-86	CONTROL ROD DRIVE
•	6 ea. 1/2 dia. on 4 1/8 bolt c	circle DWG - 768E534
0		9. Nut 137C5934P1
δ.	Plug 175A7961P1	XM-19 SA479
	SA182-F304	1.30 thick x 2.62 dia.
	0.38 thick x 1.307 dia.	•
		00297
		•
		<u> </u>

97

;

REPORT NO. P0059-009
Sheet 1 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES As required by the Provision of the ASME Code Rules, Section III, Div. 1 (1013-037) 141' 44 465
L. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. Name and address of NPT Certificate Holder:
(b) Manufactured for General Electric Company, San Jose, California (NEBG) (Name and address of N Certificate Holder for completed ancient componenti
2. Identification-Certificate Holder's Serial No. of PartA5124Nar'l Bd. No
(a) Constructed According to Drawing No 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
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
Date
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
Design information on file acGE, 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
Date N.C. 723, PA.WC1766, OUS48 N.C. 723, PA.WC1766, OUS48 National Board, State, Province and No.

•Supplemental shoets in form of lists, sketches or drawings may be used provided (1) size is 6%" z 11", (2) information in items 1-2 on this Day Repart is included on each most, and (2) and shows in number of shorts is recorded to Non 2, "Remarks".

. .

					FO	RM N-2 (b)	eck)			
								, or shells of he		
4.	Shell:	Material	T.S pec. No.) (Min	N T . of Range S	ominal hickness poctfied)	Corro in. Allor	usion whate in.	Dis ft	in. Length_	ft in.
								Efficiency		
		Girth	H	.T.'				No. of Courses		
6.	Heads:	(a) Material _		·	T.S		(b) Materi	el	T.S	
		Location , bottom, ends)		Radius	Radius	Ratio	Conical Apez Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Coav. or Canc.
		·····								·
	lf remo	vable, boirs us	ed	ial. Spec. N	(a., T.S., Sta	e. Numberi	Other fast	ening(Dei	cribe or stte	ch skatch)
7		Closure:	(			•••••				,
1.	JECKET	(Descri	be as ogee and	weld, bar, e	tc. If ber giv	e dimensions,	, if bolted, desci			
								<b>C</b>		ft+
8.	Design	pressure <sup>3</sup>	1250		psi a	¢	575	°F at temp	. of	°F
lte¤	is 9 and	10 to be comp	leted for tube	sections						
									·····	
9.	lube S	heers: Stationa	ry. Material(	Kind & Spe	Di	a. (Subject te	pressure)	kness in. A	ttachment	Welded, Bolted)
		Floatin	. Material		Di		Thie	kness in A	tachment	
10.	Tubes:	Material		0.D.	in. Th	ickness	Inches	Number	Тты	e
										(Str. or U)
lten	s 11-1-	incl. to be co	apleted for i	naer cham	bers of jac	keted vesse	els, or channe	is of heat exchan	gers.	
		(Kind & Sp	T.S ec. No.) (Min.	of Range Sp	hickness _ weified)			Diaft		ftia
	Waada									
13.	Hesas	(a) Material	<u></u>		•			l		
		Location	Thickness	Crown Radius-		Elliptical Ratio	Conical Apez Angle	Hemuspherical Radius		Conv. or Conc.
		, bottom, ends								
	(b) Cha		- 1 / - >					ber fastening	<u> </u>	
	II ICIDO	vable, boits us	ea (1)	(;	»)	(c)		- (		stech sketch)
									eight	
14.	Desien	pressure <sup>2</sup>				e		F at temp	Impact	
							<u></u>			
lten	s below	to be complete	ed for all ves	sels wher	e applicab	le.				
	Safety Nozzle		Number		Size	L	ocation			······································
		e (Inlet, , Drain) 2	lumber	Dia. or Siz	• Ty	pe Mat	erial Th		forcem <del>ent</del> sterial	How Attached
	·									
17		28-711-1-				·····		······································	·	
41.	Openia	ndef jähudoies	NO	Si e:	ze	Loci				
	" "						ition			
18.	Support								d	
<b>ι8.</b>			or No) Lug					Attache	d(WM	re à How)

\_\_\_\_\_

The construction of the construction of the second state of the construction of the second state of

50° 		Sheet 2 of 2
	FORM N.2 NOT CENTERCATE HOI DEDS! DA	TA REPORT FOR NUCLEAR PART AND APPURTENANCES
		of the ASME Code Rules, Section III. Div. 15 [6]3-037
	As required by the Provision of	
		<u> </u>
	Gonaral Electric Comma	any, Castle Hayne Rd., Wilmington, N.C.
. (a) M	anufactured by Jeneral Diecelic Compa	(Name and address of NPT Certificate Holder)
(b) M	anufactured for General Electric Compa	any, San Jose, California (NEBG)
(-, ~		ddress of N Certificate Holder for completed auclear composent)
L Ident	ification-Certificate Holder's Serial No. of Part	
		D. L. Peterson
(a) (	Constructed According to Drawing No. 768E53	34G001 Drawing Prepared by D. D. PELEIBOR
(h) T	Description of Part Inspected Control	1 Rod Drive, Model #7RDB144DG001
		N207
(c) /	Applicable ASME Code: Section III, Edition 1974.	
	•.	~
1.	Cap 166B9274P1	
-	(167A2343)	
	SA182 - F316	Code weld
	3/8 thick x 1 1/16 0D	P.50YP102
	•	
2.	Indicator Pipe 166E9313P1	
	SA312-TP316	
	3/4 sch 40-seamless pipe	
	0.113 wall thickness	
	1.065 max. dia.	Reactor vessel
	• • •	thimble
3.	Plug 159A1176P1	
-	SA182-F304	ـــا ! !! !! ناـــ
	1/4 thick x 0.812 0D	
4.	Flange 919D610P1 (719E474)	Code weld
	SA182-F304	R50YP102
	3.37 thick x 9 5/8 0D	
-	neck 1 1/16 thick x 5.0 0D	
•	2.875 ID	
_		
5.	Base 13705311P1	
-	XM-19 ASME SA479	
•	3.0 0D x .884 ID	UNTER IN
		V/ 31-14-21
6.	Ring Flange 114B5122P2	
	SA182-F304	Code weld
	1" thick x 5.0 0D x 1.75 ID	P50YP102
_		•
7.	Cap Screw 117C4516P2	CONTROL ROD DRIVE
	SA193-B6	
	6 ea. 1/2 dia. on 4 1/8 bolt circ	Cle Dag - 7000004
•		9. Nut 137C5934P1
8.	Plug 175A7961P1	
	SA182-F304	XM-19 SA479 1.30 thick x 2.62 dia.00549
	0.38 thick x 1.307 dia.	

•

REPORT	NO.	P00	)59	~009

	γ ( <i>I</i>		St	neet 1 of 2	
243- 4	· / S	ит. 48 16 46			
FORM N-2 NP			DR NUCLEAR PART AND APPU	URTENANCES*	
	As required by the Prov	rision of the ASME Co	de Rules, Section III, Div. 1		
				10141 120	$\stackrel{\frown}{=}$
	General Electric (	Company, Castle	Hayne Rd., Wilmington	., N.C.	
(b) Manufactured for_	General Electric (	Company, San Jo	se, California (NEBG)		
Identification-Certifica			Holder for completed nuclear component		
a) Constructed Acco	ording to Drawing No	E534G001 Draw	ing Prepared by D. L. Pe	iterson	
b) Description of P	at InspectedControl	Rod Drive, Mod	el #7RDB144DG001		
, , , , , , , , , , , , , , , , , , ,		1074	N20/		
(c) Applicable ASME	Code: Section III, Edition	1974 , Addenda da	N2U/ 1361 Ke K'75_, Case No	Class	
Standar	d part for use with	h Reactor. Hyd	rostatically tested at	1820 psi.	
	(Brief desc	ription of service for wh	lich component was dealgned)	• • • • • • • • • • • • • • • • • • • •	
* Total	number of sheets -	2.			
•					
s to the rules of con- applicable Design Sp- Holder for appurtenau ided in the componen	nces is responsible for furnish at Design Specification and i	Section III. t are not the responsibli- hing a separate Design Stress Report.)	lity of the NPT Certificate Holder Specification and Stress Report	for parts. An NPT Ce	stif-
s to the rules of coar applicable Design Sp Holder for appurtena ided in the componen <u>8/26</u>	struction of the ASME Code ecification and Stress Report aces is responsible for furnis at Design Specification and s L_ 19_81_ Signed	Section III. are not the responsibiliting a separate Design Stress Report.) NEPD-WMD- GOT Curtificate Holders	lity of the NPT Certificate Holder Specification and Stress Report ByBy	for parts. An NPT Ce	stif-
is to the rules of con- applicable Design Sp- Holder for appurtena- ided in the componen <u>8/26</u> ifficate of Authorizati	struction of the ASME Code ecification and Stress Report aces is responsible for furnis at Design Specification and S L 19 <u>81</u> , Signed <u>GE</u> , ion Expires <u>September</u>	Section III. are not the responsibiliting a separate Design Stress Report.) NEPD-WMD- GOT Cartificate Holders 15, F981 Content Co	Ity of the NPT Certificate Holder Specification and Stress Report ByBy	for parts. An NPT Ce if the appurtenance is fuine. NPT N-1151	stif-
s to the rules of con- applicable Design Sp- Holder for appurtena ided in the componen <u>8/26</u> ificate of Authorizati	struction of the ASME Code ecification and Stress Report aces is responsible for furnish at Design Specification and S (	Section III. are not the responsibiliting a separate Design Stress Report.) NEFD-WMD- GOT Carufficate Holder: 15, F981 Carufficate Holder: SIGN FOR APPURT	ENANCE (when applicable)	for parts. An NPT Ce if the appurtenance is fumu: NPT N-1151	stif-
a to the rules of con- applicable Design Sp Holder for appurtenan- ided in the componen <u>8/26</u> ifficate of Authorizati	struction of the ASME Code ecification and Stress Report aces is responsible for furnis at Design Specification and s L 19 <u>81</u> Signed <u>GE</u> , ion Expires <u>September</u> CERTIFICATION OF DES file at <u>GE</u> , NEPD-WAD	Section III. are not the responsibiliting a separate Design Stress Report.) NEFD-WMD- GOT Carufficate Holder: 15, F981 Carufficate Holder: SIGN FOR APPURT	Ity of the NPT Certificate Holder Specification and Stress Report ByBy	for parts. An NPT Ce if the appurtenance is fumu: NPT N-1151	stif-
as to the rules of cons applicable Design Sp Holder for appurtenan aded in the componen <u>8/26</u> ifficate of Authorizati	struction of the ASME Code ecification and Stress Report aces is responsible for furnish at Design Specification and S (	Section III. are not the responsibiliting a separate Design Stress Report.) NEFD-WMD- GOT Carufficate Holder: 15, F981 Carufficate Holder: SIGN FOR APPURT -OA, Castle Hay	By By Difference of Authorization No ENANCE (when applicable) ne Rd., Wilmington, N.	for parts. An NPT Ce if the appurtenance is fumu: NPT N-1151	stif-
s to the rules of coar applicable Design Sp Holder for appurtenan ided in the componen <u>8/26</u> ificate of Authorizati C Design information on 22A5556, Rev. 2 cress analysis report 22A4912, Rev. 2	struction of the ASME Code ecification and Stress Report nces is responsible for furnish to Design Specification and S (	Section III. are not the responsibili- hing a separate Design Stress Report.) NEPD-WMD- GOT Cardificate Holder: 15, F981 Cardificate Holder: SIGN FOR APPURT -OA, Castle Hay , San Jose, Cal	Ilty of the NPT Certificate Holder Specification and Stress Report BrBr Entificate of Authorization No ENANCE (when applicable) ne Rd., Wilmington, N. 1f.	for parts. An NPT Ce if the appurtenance is <u>fuine</u> NPT N-1151 C.	stif-
s to the rules of coar applicable Design Sp Holder for appurtenan ided in the componen <u>8/26</u> ificate of Authorizati C Design information on 22A5556, Rev. 2 cress analysis report 22A4912, Rev. 2	struction of the ASME Code ecification and Stress Report nces is responsible for furnis at Design Specification and a L_19_81_SignedGE, ion ExpiresSeptember CERTIFICATION OF DES file atGE, NEPD-WMD GE, NEPD	Section III. are not the responsibili- hing a separate Design Stress Report.) NEPD-WMD- GOT Cardificate Holder: 15, F981 Cardificate Holder: SIGN FOR APPURT -OA, Castle Hay , San Jose, Cal	By By Difference of Authorization No ENANCE (when applicable) ne Rd., Wilmington, N.	for parts. An NPT Ce if the appurtenance is <u>fuine</u> NPT N-1151 C.	stif-
s to the rules of cons applicable Design Sp Holder for appurtenant ided in the component <u>8/26</u> ifficate of Authorizati Cosign information on 22A5556, Rev. 2 cress analysis report 22A4912, Rav. 2 besign specifications	struction of the ASME Code ecification and Stress Report nces is responsible for furnish to Design Specification and S (	Section III. are not the responsibiliting a separate Design Stress Report.) NEFD-WMD- GOT Carufficate Holder: 15, F981 Ca SIGN FOR APPURT -OA, Castle Hay , San Jose, Cal Idhar	Ilty of the NPT Certificate Holder Specification and Stress Report BrBr Entificate of Authorization No ENANCE (when applicable) ne Rd., Wilmington, N. 1f.	for parts. An NPT Ce if the appurtenance is <u>fumue</u> NPT N-1151 .C. .Reg. No.18345	stif-
s to the rules of cons applicable Design Sp Holder for appurtenant ided in the component <u>8/26</u> ifficate of Authorizati Cosign information on 22A5556, Rev. 2 cress analysis report 22A4912, Rav. 2 besign specifications	struction of the ASME Code ecification and Stress Report aces is responsible for furnis at Design Specification and S L 19_81_SignedGE, ion ExpiresSeptember CERTIFICATION OF DES file atGE, NEPD-WAD certified byB. N. Srf certified byB. N. Srf	Section III. are not the responsibiliting a separate Design Stress Report.) NEFD-WMD- GOT Carufficate Holder: 15, F981 Ca SIGN FOR APPURT -OA, Castle Hay , San Jose, Cal Idhar	Ity of the NPT Certificate Holder Specification and Stress Report By	for parts. An NPT Ce if the appurtenance is <u>fumue</u> NPT N-1151 .C. .Reg. No.18345	stif-
s to the rules of cons applicable Design Sp Holder for appurtena ded in the componen 	struction of the ASME Code ecification and Stress Report nces is responsible for furnis it Design Specification and i 2_19_81SignedGE, ion ExpiresSeptember CERTIFICATION OF DES file atGE, NEPD-WHD certified byB. N. Srf certified byB. N. Srf CERTIFI	Section III. are not the responsibili- hing a separate Design Stress Report.) NEPD-WMD- GOT Certificate Holders 15, 1981 Ce SIGN FOR APPURT -OA, Castle Hay , San Jose, Cal Idhar Idhar ICATE OF SHOP IN a issued by the Nacion	Ilty of the NPT Certificate Holder Specification and Stress Report By	for parts. An NPT Ce if the appurtenance is <u>fumue</u> NPT N-1151 .C. 	
s to the rules of con- applicable Design Sp- Holder for appurtena ded in the componen 	struction of the ASME Code ecification and Stress Report nces is responsible for furnis it Design Specification and i 2_19_81SignedGE, ion ExpiresSeptember CERTIFICATION OF DES file atGE, NEPD-WHD certified byB. N. Srf certified byB. N. Srf CERTIFI	Section III. are not the responsibili- hing a separate Design Stress Report.) NEPD-WMD- GOT Caruficate Holder: 15, F981 Car SIGN FOR APPURT -OA, Castle Hay , San Jose, Cal Idhar Idhar ICATE OF SHOP IN a issued by the Nacion Ina_ and employed	Ity of the NPT Certificate Holder Specification and Stress Report By	for parts. An NPT Ce if the appurtenance is <u>fumue</u> NPT N-1151 .C. 	
s to the rules of cons applicable Design Sp Holder for appurtenan ided in the componen <u>8/26</u> ifficate of Authorizati Consign information on 22A5556, Rev. 2 cress analysis report 22A4912, Rev. 2 besign specifications tress analysis report L, the undersigned, ad/or the State of Pro- State of artial Data Report on and belief, the NPT Cert By signing this ce ng the part descri	struction of the ASME Code ecification and Stress Report aces is responsible for furnist it Design Specification and i 2_19_81SignedGE, ion ExpiresSeptember CERTIFICATION OF DES file atGE, NEPD-WAD on file atGE, NEPD-WAD certified by_B. N. STI certified by_B. N. STI CERTIFI , bolding a valid commission ovince of North Carolina North Carolina	Section III. are not the responsibiliting a separate Design Stress Report.) NEPD-WAD- GOT Cartificate Holder: 15, 1981 Co SIGN FOR APPURT -OA, Castle Hay -OA, Castle Hay , San Jose, Cal Idhar Idhar ICATE OF SHOP IN a issued by the Nacion ina and employed have inspected 8/26/ d this part in accordance tor nor his employer of a Report. Furtherm	Ilty of the NPT Certificate Holder Specification and Stress Report By	for parts. An NPT Ce if the appurtenance is <u>future</u> NPT N-1151 .C. .Reg. No.18345 .Reg. No.18345 .Reg. No.18345 	
Is to the rules of coar applicable Design Spi- Holder for appurtenai aded in the componen <u>8/26</u> difficate of Authorizati Coartight information on 22A5556, Rev. 2 Acress analysis report 22A4912, Rav. 2 Design specifications acress analysis report I, the undersigned, ad/or the State of Pro- f State of artial Data Report on nd belief, the NPT Cert By signing this ce as the part descri- hall be liable in any	struction of the ASME Code ecification and Stress Report aces is responsible for furnist it Design Specification and i 2_19_81SignedGE, ion ExpiresSeptember CERTIFICATION OF DES file atGE, NEPD-WAD on file atGE, NEPD-WAD certified by_B. N. STI certified by_B. N. STI CERTIFI , bolding a valid commission ovince of North Carolina North Carolina	Section III. are not the responsibiliting a separate Design Stress Report.) NEPD-WAD- GOT Cartificate Holder: 15, 1981 Co SIGN FOR APPURT -OA, Castle Hay -OA, Castle Hay , San Jose, Cal Idhar Idhar ICATE OF SHOP IN a issued by the Nacion ina and employed have inspected 8/26/ d this part in accordance tor nor his employer of a Report. Furtherm	Ity of the NPT Certificate Holder Specification and Stress Report By	for parts. An NPT Ce if the appurtenance is <u>future</u> NPT N-1151 .C. .Reg. No.18345 .Reg. No.18345 .Reg. No.18345 	
Is to the rules of coar applicable Design Spi- Holder for appurtenai- ded in the componen <u>8/26</u> ifficate of Authorizati Coarting information on 22A5556, Rev. 2 Aress analysis report 22A4912, Rev. 2 Design specifications aress analysis report I, the undersigned, ad/or the State of Pro- f State of artial Data Report on Ind belief, the NPT Certi- By signing this ce- ng the part descri	struction of the ASME Code ecification and Stress Report aces is responsible for furnist it Design Specification and i 2_19_81SignedGE, ion ExpiresSeptember CERTIFICATION OF DES file atGE, NEPD-WAD on file atGE, NEPD-WAD certified by_B. N. STI certified by_B. N. STI CERTIFI , bolding a valid commission ovince of North Carolina North Carolina	Section III. are not the responsibiliting a separate Design Stress Report.) NEPD-WAD- GOT Cartificate Holder: 15, 1981 Co SIGN FOR APPURT -OA, Castle Hay -OA, Castle Hay , San Jose, Cal Idhar Idhar ICATE OF SHOP IN a issued by the Nacion ina and employed have inspected 8/26/ d this part in accordance tor nor his employer of a Report. Furtherm	Ity of the NPT Certificate Holder Specification and Stress Report By	for parts. An NPT Ce if the appurtenance is <u>fusme</u> . NPT N-1151 .C. 	
Is to the rules of coar applicable Design Sp. Holder for appurtenai aded in the componen <u>8/26</u> ifficate of Authorizati C Design information on 22A5556, Rev. 2 Aress analysis report 22A4912, Rev. 2 Design specifications artess analysis report I, the undersigned, ad/or the State of Pro f State of artial Data Report on and belief, the NPT Cert By signing this ce ng the part descri- hall be liable in any ith this inspection.	struction of the ASME Code ecification and Stress Report nces is responsible for furnish it Design Specification and is 2_19_81SignedGE, ion ExpiresSeptember CERTIFICATION OF DES file arGE, NEPD-WAD on file arGE, NEPD-WAD on file arGE, NEPD-WAD certified by_B. N. STI certified by_B. N. STI CERTIFI bolding a valid commission ovince of <u>North Carolf</u> North Carolfna tificate, seither the Inspec ibed in this Partial Dat	Section III. are not the responsibiliting a separate Design Stress Report.) NEPD-WAD- GOT Cartificate Holder: 15, 1981 Co SIGN FOR APPURT -OA, Castle Hay -OA, Castle Hay , San Jose, Cal Idhar Idhar ICATE OF SHOP IN a issued by the Nacion ina and employed have inspected 8/26/ d this part in accordance tor nor his employer of a Report. Furtherm	Ilty of the NPT Certificate Holder Specification and Stress Report By	for parts. An NPT Ce if the appurtenance is <u>fusion:</u> NPT N-1151 .C. 	

					FO	RM N-2 (bi		313-037	5/29/	103 - 4
Ite	ns 4-8 1	ncl. to be com	pleted for sing	le wall v			×	, or shells of he		
4.	Shell:	Material (Kind & S	T.S.		ominal hickness pecified)	Corro in. Allow	usion vancein.	Dia ft	in. Length_	ft in
5.	Sesas					_ R.T		Efficiency		. 7
6.	Heads:	(a) Material _						ai		
			Thickness	Redius	Redius	Ratio	Apez Angle		Diameter	Side to Press. (Conv. or Conc.
							Other fast			
7	Jackse	Cleaner					-		scribe or stat	ch sketch)
<i>'</i> .	Jacket	Closure:(Descri	ibe as ogee and w	eld, bar, e	te. If bar giv	e dimensions,	if bolted, descr			······································
			1070				***	Chara		(r-)]
8.	Design	pressure <sup>2</sup>	1250		psi a	t	3/3	_°F at tem	p. of	°I
ten	s 9 and	10 to be comp	leted for tube :	sections						
9.	Tube S	heets: Stations	ry. Material		Di		Thic	kaessin. A	ttachment	•
			(X	ind is Spe	re. No.)	(Subject La	pressure)			(Welded, Bolted)
		Floating	5. Material		Di	8	Thic	knessin. A	ttachment	
10.	Tubes:	Material	(	o.d	in. Th	ickness	07 Esta	. Number	Туре	د (5tr. of 17)
1	- 11-14	lingt to be as	malacad for in		have of inc	kasad waasa	la as chases	is of heat exchan		(01/0/0)
12.	Seams;	Long		· ·				Efficiency		_%
13.	Heads							Not of Courses		
		Location	Thickness	Crown	Kauckie	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat	Side te Press. (Conv. or Conc.)
	(a) Top									
	(b) Cha	nael	·				<u> </u>			
	if remov	vable, bolts us	ed (a)	(b	)	(c)	Ot	her fascening	Describe or a	
	<b>D</b> :							Charpy	Impact	(relb
14	Design	pressure	<u> </u>		psi ai	·		at temp	)• 01 <u> </u>	°F
iten	s below	to be complete	ed for all vess	els wher	e applicabl	le.				·
. <	Salary 1	Valve Outlese	Number			•				
	Nozzles				5148					<u> </u>
		e (Inlet,							forcement	••
	Outlet,	, Drain) 1	Number Di	ia, or Size	• Тур	e Mati	miat Thi	ckn#88 M	storial	How Attached
	<u></u>									
•	rupental		s, No No					•		
18.	Support							Attache	d	re & How)
				(Numbe	( <b>7</b> )	(JTUMD41)	(Dei	icribe)	{ whe	TT & (194)
	If Post	weld Heat-Treat	ed.				enalizable			

<pre>(a) Heardreeverd by <u>General Electric Company, Castle Bayne Rd., Wilmington, N.C.</u> <u>Obsers and addres Will Condition Mathematics Badamy</u> (b) Heardreeverd for <u>General Electric Company, Sas Jose, California (NEEC)</u> <u>Obsers and addres of Condition Mathematics Electric Conditions Mathematics Electric Company, Sas Jose, California (NEEC)</u> (c) Consumerd According to Deving No. <u>76805366001</u> Deving Prepared by <u>D. L. Peterson</u> (c) Consumerd According to Deving No. <u>76805366001</u> Deving Prepared by <u>D. L. Peterson</u> (c) Consumerd According to Deving No. <u>76805366001</u> Deving Prepared by <u>D. L. Peterson</u> (c) Applicable ASME Code: Section UL, Edition <u>1974</u>., Addenda dare, <u>W'75</u> Case No. <u>1361-2</u> Class <u>1</u> (c) Applicable ASME Code: Section UL, Edition <u>1974</u>., Addenda dare, <u>W'75</u> Case No. <u>1361-2</u> Class <u>1</u> (c) Applicable ASME Code: Section UL, Edition <u>1974</u>., Addenda dare, <u>W'75</u> Case No. <u>1361-2</u> Class <u>1</u> (c) Applicable ASME Code: Section UL, Edition <u>1974</u>., Addenda dare, <u>W'75</u> Case No. <u>1361-2</u> Class <u>1</u> (c) Applicable ASME Code: Section UL, Edition <u>1974</u>., Addenda dare, <u>W'75</u> Case No. <u>1361-2</u> Class <u>1</u> (c) Applicable ASME Code: Section UL, Edition <u>1974</u>., Addenda dare, <u>W'75</u> Case No. <u>1361-2</u> Class <u>1</u> (c) Applicable ASME Code: Section UL, Edition <u>1974</u>. (c) Applicable AGeneral Electric Code weld <u>3</u> (c) Hitch x x 9 5/8 00 (c) 2.875 ID (c) Sase <u>137C5311P1</u> Xh-19 SAME SAM73 3.0 OD x .884 ID (c) Ring Flange <u>11465122P2</u> SAN32-F304 (c) SAN32-F304 (c) SAN32-F30</pre>	• • • •	FORM N-2 NPT CERTIFICATE HOLDERS As required by the Provise	1 08 46		17240
Other and address of VC Centicule Made         (b) Meanufacture de Company, San Jose, California (NEEC)         Meanufacture de Company, San Jose, California (NEEC)         Meanufacture de Company, San Jose, California (NEEC)         Meanufacture de Comtrol Rod Prive, Model #TEDE144DG001         (a) Conservice Made du ed K-TGE Case Ne. 1961-2 Class 1         (b) Description of Past Imspected         Control Rod Drive, Model #TEDE144DG001         (c) Conservice Section II, Edition 1974.         Addeed due K'T6 Case Ne. 1961-2 Class 1         (c) Control Rod Drive, Model #TEDE144DG001         North Control Rod Prive, Model #TEDE144DG001         (c) Control Rod Drive, Model #TEDE144DG001         (c) Control Rod Drive, Model #TEDE144DG001         North Cast of Past Imspected         Other Control Rod Prive, Model #TEDE144DG001         Adde to Past Imspected         Other Case Network         Schild Control Rod Prive, Model #TEDE144DG001         Adde to Past Imspected         Other Case Network         Schild Control Rod Prive         Schild Control Rod Prive         Schild Control Rod Prive	1. (a) Ma	neufactured by General Electric Co	mpany, Castle Hayne	Rd., Wilmington, N.C.	
Offices and seture of Conduct Bader by consents)         Mart Bal. No.         (a) Construct According to Dreving No.         (b) Description of Part Inspected         Control Rod Drive, Model #TRDE144DG001         (b) Description of Part Inspected         (c) Applicable ASME Code: Section III, Edition         1974, Addenda date. M'75, Case No.         (c) Applicable ASME Code: Section III, Edition         1974, Addenda date. M'75, Case No.         (c) Applicable ASME Code: Section III, Edition         1974, Addenda date. M'75, Case No.         (c) Applicable ASME Code: Section III, Edition         SATE Code: Section III, Edition         SATE Code: Section III, Edition         SATE Code: Section III, Edition         (c) Applicable ASME Code: Section III, Edition         SATE Code: Section III, Edition         SATE Code: Section III, Editor         Sate Code: Section			(Name and address of NPT Cert	ificate Holder)	•
<ul> <li>(a) Constructed According to Drawing No. <u>76875346001</u> Drawing Prepared by <u>D. L. Peterson</u></li> <li>(b) Description of Part Inspected <u>Control Rod Drive, Model #7RDB144DG001</u></li> <li>(c) Applicable ASME Code: Section II, Edition <u>1974</u>, Addeeds date. <u>K'75</u> Case No. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Code: Section II, Edition <u>1974</u>, Addeeds date. <u>K'75</u> Case No. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Code: Section II, Edition <u>1974</u>, Addeeds date. <u>K'75</u> Case No. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Code: Section II, Edition <u>1974</u>, Addeeds date. <u>K'75</u> Case No. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Code: Section II, Editor <u>1974</u>, Addeeds date. <u>K'75</u> Case No. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Code: Section II, Editor <u>1974</u>, Addeeds date. <u>K'75</u> Code weld</li> <li>(c) Applicable ASME Code: Section II, Editor Pipe 16689313P1</li> <li>SA182 - F304</li> <li>(c) Applicable ASME Code: Section II (719E474)</li> <li>SA182 - F304</li> <li>(c) Applicable SA479</li> <li>(c) Code Section II (719E474)</li> <li>SA182 - F304</li> <li>(c) Applicable SA479</li> <li>(c) OD x. 884 1D</li> <li>(c) Applicable SA479</li> <li>(c) Code Section II/C4516P2</li> <li>SA193-B6</li> <li>(c) Cas Crew 117C4516P2</li> <li>SA193-B6</li> <li>(c) Code Code Case Code Case Code Case Code Case Code Case Case Code Case Case Code Case Case Code Case Case Case Case Case Case Case Cas</li></ul>		(Name a	ad address of N Certificate Holder for	completed Buciest component)	
<ul> <li>(a) Constructs According to Devent No. <u>1007/3810001</u> Drevel Prepares by <u>N207</u></li> <li>(b) Description of Part herpected <u>Control Rod Drive, Model #7RDB144DG001</u></li> <li>(c) Applicable ASME Codet Section III, Edition <u>1974</u>, Addenda dare <u>N175</u> Case Ne. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Codet Section III, Edition <u>1974</u>, Addenda dare <u>N175</u> Case Ne. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Codet Section III, Edition <u>1974</u>, Addenda dare <u>N175</u> Case Ne. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Codet Section III, Edition <u>1974</u>, Addenda dare <u>N175</u> Case Ne. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Codet Section III, Edition <u>1974</u>, Addenda dare <u>N175</u> Case Ne. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Codet Section III, Edition <u>1974</u>, Addenda dare <u>N175</u> Case Ne. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Codet Section III, Edition <u>1974</u>, Addenda dare <u>N175</u> Case Ne. <u>1361-2</u> Class <u>1</u></li> <li>(c) Applicable ASME Codet Section III, Edition <u>1974</u>, Addenda dare <u>N175</u> Code weld</li> <li>(c) Finge 919D610P1 (719E474) SAI82-F304</li> <li>(c) Applicable SA479 State Sa479 Sta</li></ul>	2, Identi	fication-Certificate Holder's Serial No. of Part	A5568	"Nar'l Bd. No	•
(b) Descriptions of Part Inspected       Control Rod Drive, Model #7RDB14400001         (c) Applicable ASME Coder Section III, Edition 1974, Addenda date, M*75       Case No. 1361-2 Class 1         (c) Applicable ASME Coder Section III, Edition 1974, Addenda date, M*75       Case No. 1361-2 Class 1         (c) Applicable ASME Coder Section III, Edition 1974, Addenda date, M*75       Case No. 1361-2 Class 1         (c) Applicable ASME Coder Section III, Edition 1974, Addenda date, M*75       Case No. 1361-2 Class 1         (c) Applicable ASME Coder Section III, Edition 1974, Addenda date, M*75       Case No. 1361-2 Class 1         (c) Applicable ASME Coder Section III, Edition 1974, Addenda date, M*75       Case No. 1361-2 Class 1         (c) Applicable ASME Coder Section III, Edition 1974, Addenda date, M*75       Case No. 1361-2 Class 1         (c) Applicable ASME Coder Section III, Edition 1974, Addenda date, M*75       Case No. 1361-2 Class 1         (c) Applicable ASME Coder Section III, Edition 1974, Addenda date, M*75       Case No. 1361-2 Class 1         (c) Applicable ASME Coder Section III, Edition 1974, SAI82-F304       Reactor vessel         (c) Applicable ASME Solo Dif (719E474)       SAI82-F304         (c) Appli ASME Solo Dif (719E474)       SAI82-F304 <th>(a) C</th> <th>constructed According to Drawing No. 768</th> <th>E534G001 Drawing Prep</th> <th>ared by D. L. Peterson</th> <th>L</th>	(a) C	constructed According to Drawing No. 768	E534G001 Drawing Prep	ared by D. L. Peterson	L
(c) Applicable ASME Code: Section III, Edition 1974, Addenda dure, W'75 Care No. 1361-2 Clare 1         1. Cap 16689274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 00         2. Indicator Pipe 16689313P1 SA3122-F316 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.         3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 00         4. Flange 919D610P1 (719E474) SA182-F304 1/4 thick x 5.0 00 2.875 ID         5. Base 137C5311P1 XM-19 ASME SA479 3.0 00 x .884 10         6. Ring Flange 11485122P2 SA182-F304 1' thick x 5.0 00 x .1.75 ID         7. Cap Screw 117C4516P2 SA193-86 6 ea. 1/2 dia. on 4 1/8 bolt circle         8. Plug 175A7961P1 Sh182-F304			•	•	
<ul> <li>3. Cap 16689274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 0D</li> <li>2. Indicator Pipe 16689313P1 SA312-TP316 3/4 sch 40-seamless pipe 0.133 wall thickness 1.065 max. dia.</li> <li>3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D</li> <li>4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>5. Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID</li> <li>6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA182-F304</li> <li>8. Plug 175A7961P1</li> <li>SA182-F304</li> <li>9. Nut 137C5934P1</li> <li>O0639 1. Stat2-F304</li> </ul>			•.	N207	-
<ul> <li>(167A2343) SA182 - F316 3/8 thick x 1 1/16 0D</li> <li>Indicator Pipe 166E9313P1 SA182-F306 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.</li> <li>Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D</li> <li>Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID</li> <li>Ring Flange 11485122P2 SA182-F304 1* thick x 5.0 0D x 1.75 ID</li> <li>Cap Screw 117C4516P2 SA182-F304</li> <li>Plug 175A7961P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Substar 137C5934P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Substar 137C5934P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Substar 2, 62 dia</li> </ul>	(c) A	pplicable ASME Code: Section III, Edition	14., Addenda date W. /	5 Case No. <u>1361-2</u> Class	
<ul> <li>(167A2343) SA182 - F316 3/8 thick x 1 1/16 0D</li> <li>Indicator Pipe 166E9313P1 SA182-F306 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.</li> <li>Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D</li> <li>Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID</li> <li>Ring Flange 11485122P2 SA182-F304 1* thick x 5.0 0D x 1.75 ID</li> <li>Cap Screw 117C4516P2 SA182-F304</li> <li>Plug 175A7961P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Substar 137C5934P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Substar 137C5934P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Substar 2, 62 dia</li> </ul>	<u></u>				
<ul> <li>(167A2343) SA182 - F316 3/8 thick x 1 1/16 0D</li> <li>Indicator Pipe 166E9313P1 SA182-F306 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.</li> <li>Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D</li> <li>Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID</li> <li>Ring Flange 11485122P2 SA182-F304 1* thick x 5.0 0D x 1.75 ID</li> <li>Cap Screw 117C4516P2 SA182-F304</li> <li>Plug 175A7961P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Substar 137C5934P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Substar 137C5934P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Substar 2, 62 dia</li> </ul>					
<ul> <li>(167A2343) SA182 - F316 3/8 thick x 1 1/16 0D</li> <li>Indicator Pipe 166E9313P1 SA182-F306 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.</li> <li>Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D</li> <li>Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID</li> <li>Ring Flange 11485122P2 SA182-F304 1* thick x 5.0 0D x 1.75 ID</li> <li>Cap Screw 117C4516P2 SA182-F304</li> <li>Plug 175A7961P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Shate 1755936P1 SA182-F304</li> <li>Plug 175A7961P1</li> <li>Shate 1755936P1</li> <li>Shate 1556</li> <li>Shate 175679507</li> <li>Shate 1557</li> /ul>	1.	Cap 166B9274P1	•		
SA182 - F316 3/8 thick x 1 1/16 0D         2. Indicator Pipe 166E9313P1 SA312-TP316 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.         3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D         4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID         5. Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID         6. Ring Flange 114E5122P2 SA182-F304 1* thick x 5.0 0D x 1.75 ID         7. Cap Screw 117C4516P2 SA182-F304         8. Plug 175A7961P1 SA182-F304	•**		•		
3/8 thick x 1 1/16 00         2. Indicator Pipe 166E9313P1         SA312-TP316         3/4 sch 40-seamless pipe         0.113 wall thickness         1.065 max. dia.         3. Plug 159A1176P1         SA182-F304         1/4 thick x 0.812 0D         4. Flange 919D610P1 (719E474)         SA182-F304         3.37 thick x 9 5/8 0D         neck 1 1/16 thick x 5.0 0D         2.875 ID         5. Base 137C5311P1         XH-19 ASME SA479         3.0 0D x .884 ID         6. Ring Flange 114B5122P2         SA182-F304         1" thick x 5.0 0D x 1.75 ID         7. Cap Screw 117C4516P2         SA182-F304         8. Plug 175A7961P1         SA182-F304         8. Plug 175A7961P1         SA182-F304			·	Code weld	11
<ul> <li>2. Indicator Pipe 166E9313P1 SA312-TP316 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.</li> <li>3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D</li> <li>4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>5. Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID</li> <li>6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA182-F304</li> <li>8. Plug 175A7961P1 SA182-F304</li> <li>9. Nut 137C5934P1 VM-19 SA479</li> <li>9. Nut 137C5934P1 VM-19 SA479</li> <li>9. Nut 137C5934P1 00639</li> </ul>					r
SA312-T9316         3/4 sch 40-seamless pipe         0.113 wall thickness         1.065 max. dia.         3. Plug 159A1176P1         SA182-F304         1/4 thick x 0.812 0D         4. Flange 919D610P1 (719E474)         SA182-F304         3.37 thick x 9 5/8 0D         neck 1 1/16 thick x 5.0 0D         2.875 ID         5. Base 137C5311P1         XH-19 ASME SA479         3.0 0D x .884 ID         6. Ring Flange 114B5122P2         SA182-F304         1" thick x 5.0 0D x 1.75 ID         7. Cap Screw 117C4516P2         SA182-F304         9. Nut 137C5934P1         OC639         XH-19 SA479         SA182-F304			•		
SA312-T9316         3/4 sch 40-seamless pipe         0.113 wall thickness         1.065 max. dia.         3. Plug 159A1176P1         SA182-F304         1/4 thick x 0.812 0D         4. Flange 919D610P1 (719E474)         SA182-F304         3.37 thick x 9 5/8 0D         neck 1 1/16 thick x 5.0 0D         2.875 ID         5. Base 137C5311P1         XH-19 ASME SA479         3.0 0D x .884 ID         6. Ring Flange 114B5122P2         SA182-F304         1" thick x 5.0 0D x 1.75 ID         7. Cap Screw 117C4516P2         SA182-F304         9. Nut 137C5934P1         OC639         XH-19 SA479         SA182-F304	•				
3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.       Reactor vessel thimble         3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D       Reactor vessel thimble         4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID       Code veld thimble         5. Base 137C5311P1 XH-19 ASME SA479 3.0 0D x .884 ID       Code veld thick x 5.0 0D x 1.75 ID         6. Ring Flange 11485122P2 SA182-F304 1* thick x 5.0 0D x 1.75 ID       ContRoL ROD DRIVE DWG - 768E534         7. Cap Screw 117C4516P2 SA193-86 6 ea. 1/2 dia. on 4 1/8 bolt circle       ContRoL ROD DRIVE DWG - 768E534         8. Plug 175A7961P1 SA182-F304       9. Nut 137C5934P1 XM-19 SA479       OO639 XM-19 SA479	2.		•		
0.113 wall thickness         1.065 max. dia.         3. Plug 159Al176P1         SA182-F304         1/4 thick x 0.812 0D         4. Flange 919D610P1 (719E474)         SA182-F304         3.37 thick x 9 5/8 0D         neck 1 1/16 thick x 5.0 0D         2.875 ID         5. Base 137C5311P1         XM-19 ASME SAA79         3.0 0D x .884 ID         6. Ring Flange 11485122P2         SA182-F304         1* thick x 5.0 0D x 1.75 ID         7. Cap Screw 117C4516P2         SA182-F304         6 ea. 1/2 dia. on 4 1/8 bolt circle         8. Plug 175A7961P1         SA182-F304			•		
1.065 max. dia.       Reactor vessel thimble         3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D					
<ul> <li>3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D</li> <li>4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>5. Base 137C5311P1 XH-19 ASME SA479 3.0 0D x .884 ID</li> <li>6. Ring Flange 114B5122P2 SA182-F304 1* thick x 5.0 0D x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA193-86 6 ea. 1/2 dia. on 4 1/8 bolt circle</li> <li>9. Nut 137C5934P1 0C639 XH-19 SA479</li> <li>8. Plug 175A7961P1 SA182-F304</li> <li>9. Nut 137C5934P1 0C639</li> <li>2. Satar 12 dia.</li> </ul>			. *		
<ul> <li>3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D</li> <li>4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>5. Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID</li> <li>6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA182-F304</li> <li>8. Plug 175A7961P1 SA182-F304</li> <li>9. Nut 137C5934P1 DWG = 768E534</li> <li>9. Nut 137C5934P1 DWG = 768E534</li> <li>9. Nut 137C5934P1 DWG = 768E534</li> </ul>		1.065 max. d1a.	Rea	ctor vessel	
<ul> <li>3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D</li> <li>4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>5. Base 137C5311P1 XH-19 ASME SA479 3.0 0D x .884 ID</li> <li>6. Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA193-86 6 ea. 1/2 dia. on 4 1/8 bolt circle</li> <li>9. Nut 137C5934P1 DWG - 768E534</li> <li>9. Nut 137C5934P1 DWG - 768E534</li> <li>9. Nut 137C5934P1 DWG - 768E534</li> </ul>		• •			
SA182-F304 1/4 thick x 0.812 0D         4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D         5. Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID         6. Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID         7. Cap Screw 117C4516P2 SA193-86 6 ea. 1/2 dia. on 4 1/8 bolt circle         8. Plug 175A7961P1 SA182-F304	3.	PTug 159A1176P1			
<ul> <li>1/4 thick x 0.812 0D</li> <li>4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>5. Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID</li> <li>6. Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA193-B6 6 ea. 1/2 dia. on 4 1/8 bolt circle</li> <li>8. Plug 175A7961P1 SA182-F304</li> <li>9. Nut 137C5934P1 OO639 XM-19 SA479 1 30 bolt c 1 2 62 dia</li> </ul>			•		
<ul> <li>4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 00 neck 1 1/16 thick x 5.0 0D 2.875 ID</li> <li>5. Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID</li> <li>6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA193-B6 6 ea. 1/2 dia. on 4 1/8 bolt circle</li> <li>8. Plug 175A7961P1 SA182-F304</li> <li>9. Nut 137C5934P1 DVG - 768E534</li> <li>9. Nut 137C5934P1 DVG - 768E534</li> <li>9. Nut 137C5934P1 DVG - 768E534</li> </ul>					
SA182-F304			•	3	
SA182-F304					
<ul> <li>3.37 thick x 9 5/8 00 neck 1 1/16 thick x 5.0 0D</li> <li>2.875 ID</li> <li>5. Base 137C5311P1 XM-19 ASME SA479 3.0 0D x .884 ID</li> <li>6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA193-B6 6 ea. 1/2 dia. on 4 1/8 bolt circle</li> <li>8. Plug 175A7961P1 SA182-F304</li> <li>9. Nut 137C5934P1 DWG - 768E534</li> <li>9. Nut 137C5934P1 DWG = 2 62 dia</li> </ul>	. 4.	Flange 9190610P1 (/1924/4)			$N$ $N$
neck 1 1/16 thick x 5.0 0D 2.875 ID 5. Base 137C5311P1 XH-19 ASME SA479 3.0 0D x .884 ID 6. Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID 7. Cap Screw 117C4516P2 SA193-B6 6 ea. 1/2 dia. on 4 1/8 bolt circle 8. Plug 175A7961P1 SA182-F304 9. Nut 137C5934P1 00639 XM-19 SA479 1.30 etdek a 2 62 dta			~R201		H KNN
<ul> <li>2.875 ID</li> <li>5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID</li> <li>6. Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 OD x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA193-B6 6 ea. 1/2 dia. on 4 1/8 bolt circle</li> <li>8. Plug 175A7961P1 SA182-F304</li> <li>9. Nut 137C5934P1 UG = 768E534</li> <li>9. Nut 137C5934P1 OC639 XM-19 SA479</li> <li>10 OC639</li> </ul>				Contraction of the second seco	
<ul> <li>5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID</li> <li>6. Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 OD x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA193-86 6 ea. 1/2 dia. on 4 1/8 bolt circle</li> <li>8. Plug 175A7961P1 SA182-F304</li> <li>9. Nut 137C5934P1 OC639 XM-19 SA479</li> <li>1.20 abdeb = 2.62 dia</li> </ul>	•				
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             9. Nut 137C5934P1 XM-19 SA479             9. Nut 137C5934P1 XM-19 SA479	•	2.0/3 IU			
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             9. Nut 137C5934P1 XM-19 SA479             9. Nut 137C5934P1 XM-19 SA479				5-17	5N
<ul> <li>3.0 OD x .884 ID</li> <li>6. Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 OD x 1.75 ID</li> <li>7. Cap Screw 117C4516P2 SA193-B6 6 ea. 1/2 dia. on 4 1/8 bolt circle</li> <li>8. Plug 175A7961P1 SA182-F304</li> <li>9. Nut 137C5934P1 U00639 XM-19 SA479 1 20 shdab = 2 62 dia</li> </ul>	· 5.	Base 137C5311P1			
<ul> <li>6. Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID 7. Cap Screw 117C4516P2 SA193-B6 6 ea. 1/2 dia. on 4 1/8 bolt circle 8. Plug 175A7961P1 SA182-F304 9. Nut 137C5934P1 00639 XM-19 SA479 1 30 thick = 2 62 dia</li> </ul>	•	XH-19 ASME SA479	••••		
SA182-F304 $\frown$ Code weld $\bigcirc$ 1" thick x 5.0 0D x 1.75 ID $\frown$ Code weld $\bigcirc$ 7. Cap Screw 117C4516P2       SA193-86       CONTROL ROD DRIVE         SA193-86       DWG - 768E534         6 ea. 1/2 dia. on 4 1/8 bolt circle       9. Nut 137C5934P1         8. Plug 175A7961P1       SA182-F304	•	3.0 OD x .884 ID	· •		
SA182-F304 $\frown$ Code weld $\bigcirc$ 1" thick x 5.0 0D x 1.75 ID $\frown$ Code weld $\bigcirc$ 7. Cap Screw 117C4516P2       SA193-86       CONTROL ROD DRIVE         SA193-86       DWG - 768E534         6 ea. 1/2 dia. on 4 1/8 bolt circle       9. Nut 137C5934P1         8. Plug 175A7961P1       SA182-F304				VT-th-	
SA182-F304 $\frown$ Code weld $\bigcirc$ 1" thick x 5.0 0D x 1.75 ID $\frown$ Code weld $\bigcirc$ 7. Cap Screw 117C4516P2       SA193-86       CONTROL ROD DRIVE         SA193-86       DWG - 768E534         6 ea. 1/2 dia. on 4 1/8 bolt circle       9. Nut 137C5934P1         8. Plug 175A7961P1       SA182-F304	6	Ring Elango 1148512202	•	· / ٤.	
1" thick x 5.0 0D x 1.75 ID $P50YP102$ 9         7. Cap Screw 117C4516P2       CONTROL ROD DRIVE         SA193-86       CONTROL ROD DRIVE         6 ea. 1/2 dia. on 4 1/8 bolt circle       DWG - 768E534         8. Plug 175A7961P1       9. Nut 137C5934P1       00639         SA182-F304       9. Nut 137C5934P1       00639	4.			/ Cada	bla
7. Cap Screw 117C4516P2 SA193-B6 6 ea. 1/2 dia. on 4 1/8 bolt circle       CONTROL ROD DRIVE DWG - 768E534         8. Plug 175A7961P1 SA182-F304       9. Nut 137C5934P1 $\Sigma M-19 SA479$ 00639 $\Sigma M-19 SA479$					
SA193-B6       CONTROL ROD DRIVE         6 ea. 1/2 dia. on 4 1/8 bolt circle       DWG - 768E534         8. Plug 175A7961P1       9. Nut 137C5934P1       OO639         SA182-F304       1.30 bblok = 2.62 dia		- CHICK A 310 00 X 11/3 10		routri	V2 -
SA193-B6       CONTROL ROD DRIVE         6 ea. 1/2 dia. on 4 1/8 bolt circle       DWG - 768E534         8. Plug 175A7961P1       9. Nut 137C5934P1       OO639         SA182-F304       1.30 bblok = 2.62 dia	7	Can Screy 1176451602		•	
6 ea. $1/2$ dia. on 4 1/8 bolt circleDWG - 768E5348. Plug 175A7961P19. Nut 137C5934P100639SA182-F3041.20 thick = 2.62 dia				CONTROL ROL	DRIVE
8. Plug 175A7961P1 SA182-F304 9. Nut 137C5934P1 00639 M-19 SA479 1 - 2 62 dia			ircle		
SA182-F304 I 30 think = 2.62 dia				•	
SA182-F304 I 30 shipt = 2.62 dis	0		· ` g	Nut 137C5934P1	00630
JAIO2-FJU4 1 30 abdab - 2 62 dia	ŏ.	riug 1/5A/96[P]			00000
U.JU CHICK X 1.JU/ UIC.			×		8.
		0.30 CHICK X 1.30/ 018.	•	· · ·	
101			101	•••	

		REPORT NO. P0059-009
÷.		
		IBI3-037 SUF 45 % 46 TORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES.
		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 MR 28195
		L. (a) Manufactured byGeneral Electric Company, Castle Hayne Ed., Wilmington, N.C.
		(b) Magnischard for General Electric Company, San Jose, California (NEEG)
		Chema and address of N Caradicate Holder for construct methods are the construction of
		(a) Constructed According to Drawing No. 76825346001 Drawing Prepared by D. L. Patarson
		(b) Descripcion of Part Inspected Control Rod Drive, Hodel #7EDB144DG001
		(c) Applicable ASHE Code: Section III, Edicion _ 1974
		3. Remarker_Standard part for use with Reactor. Hydrostatically tested at 1820 pel.
		* Total number of sheets - 2
<u>.</u>		
	.0	We certify that the statements unde in this report are correct and this vessel part or apputenance as defined in the Code of forms to the sules of constructions of the ASHE Code Sortica IIL. (The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Cas included in the component Design Specification and Stress "sport.) Date
		Certificate of Authorization Expires State 16, 1984 Certificate of Authorization No. NPT N-1151
		CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
		Design information on file at GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA
		22A5556, Rev. 2 Scress sasiysis report on file at GERERAL ELECTRIC CO., SAN JOSE, CALIFORNIA
	•	22A4912, Rev. 2
		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 issied by the National Board of Boilor and Pressure Vessel Inspectors and/or the State or Province of North Carolina - and employed by Department of Labor
		ofState of North Carolina have inspected the part of a pressure vessel described in this
		and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, seither the Inspector sor his exployer makes any warranty, expressed or implied, concern- ing the part described in this Partial Data Report. Furthermore, meither the Inspector sor his employer shall be liable in any manner for any personal injury or property damage or a lass of any kind arising from or connected with the is inservice.
	۲	Date 4/30 19 N.C. 723, PA.WC1766, OHIO L.S.E.
		Institute Signature and Bol QC?
8.8		
		*Supplemental above is fam of lists, shotshes or drawings may be used provided (1) birv to 6W* a 12", (2) information in Hems 1-2 on this (1) 2 (3) Stat Anost 5 manual of the set of and a state of

:

							S. V.S.			
									•	
		·				•			 به <sup>ار</sup> د مؤ	
					FO	RM N-2 (b)	ick)			
În	rms 48 le	······································		N	ominal	Corte	sica	, or shells of h		
	. Stell: 1			T of Konge I	hickness_	is. Allow	MACE in.	Dia		
5.	. Senme	Losg	Н	.T. <sup>1</sup>		" R.T.		Elliciescy		. %
6								No. of Courses al		
	: (T++-	Location bottom, cada)	Thiemson,	Crone Zadius	Konchis Radius	Eliipiiael Rotio	Content Ages Angle	Headspherical Radius	Flat Disaster	Eide (Coas
	(6)		·							
	If reason	sble, bolts ut	(Mate	rial, Spee, 2	leng T-Jas SLE	e, Number)		ening(De	seribe or site	in chete
7.	Jacket C	Deseri	3+ 14 og es 104	wold, bar, a	te. If bar give	· Clarasions,	if beited, do ser	the or stotes)	Veight	
	Device o	(434516 <sup>3</sup>	1250		9 <i>s</i> i m		575		y lagace	
~~ 										
				Kind & Spe		8. (Subject Le		ckness		
				Kind & Spe				ckness in. ckness in Number		
10.	Tubest	Floating Material	; Meterial .	(Eind & Spe	Di in. Thi	• ickness	Thic laches or gage	ckaessia. Number	Aitachment Typ	······
10. Tuer	Tubess as 11-14	Floating Material	spleted for i	0.D	Di	kated vesa	Thic Inches Pr Cate		AttachmentTypi	(3t)
10. 10:	Tubess : as 11-14 Sheil: M	Floating Macerial incl. to be co aterial (Kind & 3p	, Meterial , supleted for i T.S. ee, Ne.) (Ma	D.D	Di in. Thi bers of jac omisal bickness octlock	ketted vesh Cont in, Allor	Thiches	cknessin . Number ds of here exch	AitachmentType magers	(30 fr
10. 10:	Tubess : as 11-14 Sheil: M Seaman	Floating Macerial incl. 10 be co aterial (Kind & 3p Long	spleted for i	. O.D	Di in. Thi bers of jac omisal hickness weithed	s ickness kated vess Corre in. Allow R.T	Thiches	chaessin Number As of here exchange Dia fu Efficiency	Aitachment	(30 fr
10. 10: 11: 12.	Tubess : as 11-14 Sheil: M Seaman	Floating Macerial incl. 10 be co aterial (Kind & 3p Long	, Meterial , sopleted for i T.S. ee. No.) (Min. H.	. O.D	Di in. Thi bers of jac omisal hickness weithed	s ickness kated vess Corre in. Allow R.T R.T	Thichea lachea els, or chesse usion usaceis. (b) Materia	chaessin Number is of here erch Diaft Efficiency No. of Courses	Aitachment	
10. 10: 11: 12.	Tubess : as 11-14 Sheil: M Sezman Hends (	Floating Material incl. 10 be co aterial (Kind & Sp Long Girth a) Material ocation	, Meterial , sopleted for i T.S. ee. No.) (Min. 	Crown Redius-	Di in. Thi bers of jac  misal ickness verified  T.S Kouchie Redus	karted vessa karted vessa Corre in. Allov R.T R.T Elliptical Ratio		ckuessin Number is of here exch Diaft Efficiency No. of Courses Memophorical Resiss	Aitachment	(30 (30 ft, . %
10. 10: 11: 12.	Tubess : as 11-14 Sheil: M Seaman Hends ( (a) Top, (b) Chan	Floating Macerial incl. to be co aterial (Kind & 3p Long (Kind & 3p Long (Sirth a) Material octation bortom, ends,	, Material	(Eine & Spec 0.D	Di in. Thi bers of jac omisal hickness verified) T.S Reactive Reduce	s ickness kated vess Corro in, Allow R.T R.T Elliptical Ratio	Thic laches feed ris, or chease rance is, (b) Materia Cantcal Apag Algio	chuessin Number As of heze exchu Diaft Efficiency No. of Courses Menusphorical Radius	AitachmentType magers. in. Length. T.S Flat Diameter	(30) (30) ft. 7 7 7 7
10. 10: 11: 12.	Tubess : as 11-14 Sheil: M Seaman Hends ( (a) Top, (b) Chan	Floating Macerial incl. to be co aterial (Kind & 3p Long (Kind & 3p Long (Sirth a) Material octation bortom, ends,	, Material	(Eine & Spec 0.D	Di in. Thi bers of jac omisal hickness verified) T.S Reactive Reduce	s ickness kated vess Corro in, Allow R.T R.T Elliptical Ratio	Thic laches feed ris, or chease rance is, (b) Materia Cantcal Apag Algio	ckaess_in_ Number its of heze exchi Diaft Efficiency No. of Courses Menusphortcal Redus ther fascening	Aitachment. Type Regers. in. Length. T.S. Fine Planeter (Describe or	(30) ft, . 7
10. 10. 11. 11. 13.	Tubess : as 11-14 Sheil: M Sezman Hends ( (a) Top, (b) Chan If remove	Floating Material incl. to be co aterial (Kind a 3p Long (Kind a 3p) (Kind a 3	c, Maccrial	(Eine & Specific (Eine	Di in. Thi bors of jac omissi mickness oreitled:  T.S Kourkle Radius	kerted vesak kerted vesak Corre in, Allor R.T R.T Elliptical Ratio	Thic laches feed ris, or chease rance is, (b) Materia Cantcal Apag Algio	chuessin Number As of heze exchu Diaft Efficiency No. of Courses Memuspherical Resus ther fascening Drop Charg	Aitachment Type Regerz. in. Length. T.S. Flat Diameter (Devenibe ar Veight	(30) ft. 7. 7. 7. 7. 7. 7. 7. _
10. 10. 11. 12. 13.	Tubess as 1114 Shell: M Seaman Heads ( (a) Top, (b) Chan If remove Design p	Floating Material incl. to be co aterial (Kind & 3p Long (Kind & 3p Long (Kind & 3p Long (Kind & 3p Long (Kind & 3p Long (Kind & 3p Long (Kind & 3p Long a) Material a) Material secution bottom, ends ael sole, bolts us	r, Macerial	Crown Redies	Di in. Thi bers of jac  misal iickness vecified T.S Rouckle Redus 	s ickness karted vessa Corre Allow R.T R.T Elliptical Ratio	Thic laches feed ris, or chease rance is, (b) Materia Cantcal Apag Algio	chuessin Number As of heze exchu Diaft Efficiency No. of Courses Memuspherical Resus ther fascening Drop Charg	Aitachment	(300 ftft 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. _7.
10. 10. 11. 12. 13.	Tubess as 1114 Shell: M Seaman Heads ( (a) Top, (b) Chan If remove Design p	Floating Material incl. to be co aterial (Kind a 3p Long (Kind a 3p) (Kind a 3	r, Macerial	Crown Redies	Di in. Thi bers of jac  misal iickness vecified T.S Rouckle Redus 	s ickness karted vessa Corre Allow R.T R.T Elliptical Ratio	Thic laches fee els, or chease sion vanceis, (b) Materia Cantcal Apox Algio	chuessin Number As of heze exchu Diaft Efficiency No. of Courses Memuspherical Resus ther fascening Drop Charg	Aitachment Type Regerz. in. Length. T.S. Flat Diameter (Devenibe ar Veight_ y Impoct_	(30) ft. 7. 7. 7. 7. 7. 7. 7. _
10. 11. 11. 12. 13. 14. 14.	Tubess : as 11-14 Sheil: M Seama: Heads ( (a) Top, (b) Chan If remove Design p as below of Safety V	Floating Material incl. to be co aterial (Kind & 3p Long (Kind & 3p Long a) Material bottom, ends where source a toble, bolts us ressure a be complete alve Outlets:	cd for all ver	Eind & Syd	Di in. Thi bers of jac  misal inckness recitled)  Rouckle Redus   pai a  relicab	s ickness karted vesse Corre R.T R.T R.T Elliptical Ratio (c) te.	Thic laches feed that, or charace is, or charace 	chuessin Number As of heze exchu Diaft Efficiency No. of Courses Memuspherical Resus ther fascening Drop Charg	Aitachment Type Regerz. in. Length. T.S. Flat Diameter (Devenibe ar Veight_ y Impoct_	(30) ft. 7. 7. 7. 7. 7. 7. 7. _
10. 11. 11. 12. 13. 14. 14.	Tubess as 11-14 Sheil: M Seaman Heads ( (a) Top, (b) Chan If remove Design p	Floating Material incl. to be co aterial (Kind & 3p Long (Kind & 3p Long (Kind & 3p Long a) Material a) Material a) Material a) Material a) Material a) Material bottom, ends bottom, ends able, bolts us ressure <sup>3</sup> a be complete alve Outlets: (Inlot,	c, Macerial	Eind & Syd	Di Di Di Ders of jac 	s ickness katted vesse  R.T R.T R.T Elliptical Ratio  (c) le.	Thic laches feed ris, or chesse wance (b) Materia Control Apex Algie 	ckaess_in_ Number its of heze exchi Diaft Efficiency No. of Courses Menuspherical Redus ther fascening Orop Charg F as ten	Aitachment Type Regerz. in. Length. T.S. Flat Diameter (Devenibe ar Veight_ y Impoct_	(30 (30) 
10. 11. 11. 12. 13. 14. 14.	Tubess as 1114 Sheil: M Seaman Heads ( (a) Top, (b) Chan If remove Design p ma below i Safety V Nozzless Purpose	Floating Material incl. to be co aterial (Kind & 3p Long (Kind & 3p Long (Kind & 3p Long a) Material a) Material a) Material a) Material a) Material a) Material bottom, ends bottom, ends able, bolts us ressure <sup>3</sup> a be complete alve Outlets: (Inlot,	c, Macerial	Crown Radius-	Di Di Di Ders of jac 	s ickness katted vesse  R.T R.T R.T Elliptical Ratio  (c) le.	Thic laches feed ris, or chesse wance (b) Materia Control Apox Algio Or	chuess_in_in_in_in_in_in_in_in_in_in_in_in_in_	Aitachment	(30 (30) 
10. 11. 12. 13. 14. Rem 15. 16.	Tubess as 11-14 Shell: M Seams: Hends ( (a) Top, (b) Chant If remove Design p Design p Safety V Nazzlen: Purpose Outler, 1 [annertic	Floating Macerial incl. to be co aterial (Kind & 3p Long Girth a) Material octation bottom, ends ael bottom, ends ressure <sup>3</sup> a be complete alve Outlets: (Inlot, pran) 2  (Inlot, pran) 2	c, Mecerial	Crown Radius Crown Radius Crown Radius Crown Radius Crown Radius Crown Radius Star of Sta	Diana	s.	Thic laches fees els, or chease psion is, is, is, is, centes centes Apex Adgle or or or or or or is, or is, or or is, or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or 	ckaess_in_ Number is of heze exchi Diaft Efficiency No. of Courses No. of Cour	Aitachment	(3ec
10. 11. 12. 13. 14. Rem 15. 16.	Tubess as 11-14 Shell: M Seams: Hends ( (a) Top, (b) Chant If remove Design p Design p Safety V Nazzlen: Purpose Outler, 1 [annertic	Floating Macerial incl. to be co aterial (Kind & 3p Long (Kind & 3p Long (Kind & 3p Long a) Material octation bottom, ends nel bottom, ends nel bottom, ends nel bottom, ends nel bottom, ends nel bottom, 2 complete alve Outlets: (Inlet, 2 complete (Inlet, 2 complete (Inlet, 2 complete) (Inlet, 2 complete) (Inlets) (Inlet, 2 complete) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (Inlets) (	c, Mecerial	Crown Radius C. C. D N of Range 39 ST. 1 ST. 1 Crown Radius  (1) seels when  Dia. or Sis Signal Signal Si	Diana	s.	Thic laches refer els, or chease psion is, is, is, is, centes centes Apex Adgle or or or or or centes Apex Adgle or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or or 	chuess_in_in_in_in_in_in_in_in_in_in_in_in_in_	Aitachment	(3er (3er - ft - 73 31dd (Cor - 73 - 73 - 73 - 73 - 73 - 73 - 73 - 73

. · ·

.

		· · · · / 1813-37)
		SHT 46 % 46 sheht 2 of 2
		FORM N-2 NPT CERTIFICATE BOLDERS' DATA REPORT-FOR NUCLEAR PART AND APPURTENANCES.
		As required by the Provision of the ASME Code Rules, Section III, Div. 1 MR25195
		MINXS M 7
1	(a)	Massiscrured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
	<b>(b)</b>	Manufactured for General Electric Company, San Jose, California (NEBG)
2	klen	A4740 Nat'l Ed. No.
	(a)	Conservered According to Drawing No. 76825346001 Drawing Prepared by D. L. Peterson
		•
		Description of Part Laspected Control Rod Drive, Model #7RDB144DG001 N207
	(c)	Applicable ASME Code: Section III, Edition Addenda date75 Case NoClass
		· · · · · ·
	1.	Cap 166B9274P1
		(167A2343) SA182 - F316 Code weld
		3/8 thick x 1 1/16 0D P50YP102
	2.	Indicator Pipe 166E9313P1
		SA312-TP316 3/4 sch 40-seamless pipe
		0.113 wall thickness
		1.065 max. dia. Reactor vessel
	3.	Plug 159A1176P1 thimble !
	•	SA182-F304 1/4 thick x 0.812 00
	4.	Flange 915D610P1 (719E474) Code weld
		3.37 thick x 9 5/8 00 neck 1 1/16 thick x 5.0 00
	•	2.875 ID
	· 5.	Base 13705311P1
	••	XM-19 ASME SA479
		3.0 CD x .854 ID
<b>.</b>	6.	Ring Flange 11485122P2
		SA182-F304
	-	
	7.	Cap Screw 117C4516P2 SA193-B6 CONTROL ROD DRIVE
	•	6 ea. 1/2 dia. on 4 1/8 bolt circle DWG - 768E534
	8.	Plug 175A7967P1 9. Rut 137C5934P1
		SA182-F304 IN-19 SA479 1 30 Hold - 2 62 44 G1(-02392)
		0.38 thick x 1.307 dia.

*|B|3-038* 

NIS-2		R'S REPOR					ENTS
PNPP No. 9308 R							NQI-1741
1. Owner:	FIRST	ENERGY CORP.				Date 05/29//03	
		Road, Perry, Ohio	44081			Sheet 1 of	
2. Plant:	Perry Nucl	ear Power Plant (F	NPP)			Unit <u>1</u>	<u> </u>
	10 Center F	Road, Perry, Ohio 4	4081	·····		WO 03-004391-( (Repair Org. P.O. N	
						ORDERS 2000	
3. Work Perfo	rmed By: <u>FIRSTEI</u>	NERGY Nuclear Ope	erating Corr	pany PNPP		Type Code Symt	ool Stamp <u>NI</u>
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No	33
						Expiration Date	9-26-05
4. Identificatio	n of System: <u>1B13</u>	B Reactor and Inter	mals	· · ·			
5. (a) Applicat	ble Construction Co	de <sup>.</sup> ASME Sec III.	Subsectio	n NB		.1974 Editi	on
0. (u) <i>r</i> pp.iour		NAME/SECT	ION/DIVISIC	N/CLASS			
Winter	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	<u>207, 1361-</u>	2 <u>, 1728, 1</u>	644-4, N272	
		- <u></u>					
(b) Constru	iction Code used fo	or repairs, modifica	ations, or r	eplacement		tion Addenda	N/A Code Case(s)
(c) ASME (	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	<u>1989</u>		<u>N/A</u>
						tion Addenda	Code Case(s
	ble Edition of Secti		-	Dolfication,	or Replac	ements:	
	<u>N/A</u> 19 <u>N/A</u>	Code	e Case(s)				
	Responsibilities <u>F</u>						
<b></b>	n of Components F		-	T	nponents	- Depoin	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	Code
			No.	4046		or Modification	Stamped
Piping System	General Electric	1B13	64077	1B13- D0008	1984	Replacement	Yes
				·	1		
<u> </u>	· · · · · · · ·		<u></u>	<u> </u>			· · · · · · · · · · · · · · · · · · ·
			<u> </u>	<u> </u>		 	
					<b> </b>		
		L					
	of Work: <u>Replaced</u>	8 (each) Capscre	ws, Heat I	Number 13	630 durin	g re-Installation of	CRDM S/N
A4531 at core	ocation 22-35.	<u>.                                    </u>					
Tool Condu	atod. Wilconter			lominal C-			
8. Test Conduc	•		_	•	-		er- 🔲
Pressure 10	<u>034 psi Te</u>	st Temperature 13	<u></u>	legrees F	Code	Case(s) <u>N/A</u>	

. .

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
5. Itemans
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05
Date May 29_, 20 03_ Signed FENOC-PNPP QE (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by Hartford Steam Boiler Ct. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on JHE 6, 2003 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 JUNE 6, 20 53 Signed Thomas Hans Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

.

1B13-039

NPP No. 9308 R		quired by the Prov	isions of th	e ASME C	ode Section	on XI	
	lev. 9/11/00	<u></u>					NQI-1741
. Owner:	FIRST	ENERGY CORP.				Date 06/03/03	]
	10 Center F	Road, Perry, Ohio	44081	· · ·		Sheet 1 of	7
Plant:	Perry Nucl	ear Power Plant (F	NPP)		-	Unit <u>1</u>	
_	10 Center R	Road, Perry, Ohio	44081			See Descrip. of V (Repair Org. P.O. N	
Work Perfo	rmed By: <u>FIRSTEI</u>	NERGY Nuclear Op	erating Corr	pany PNPP	•	Type Code Symt	ool Stamp <u>NR</u>
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No.	33
						Expiration Date	9-26-05
Identificatio	n of System: <u>1B13</u>	B Reactor and Inte	mals				
	ble Construction Co			on NB		,19 <u>74</u> Editio	on
		NAME/SECT	ION/DIVISIO	N/CLASS			
<u>Winter</u>	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	207, 1361-	2, 1728, 1	644-4, N272	
19 <u>89 .</u> (e) Design	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> I	Addenda <u>N//</u> Cod IRSTENERGY Nu	le Case(s) Iclear Open		or Replac	tion Addenda ements:	Code Case(s)
	n of Components F	Repaired, Modified	i, or Replac	cement Cor	nponents		
Name of	Name of Manufacturer	Repaired, Modified Manufacturer Serial No.	Nat. Board	Other ID.	nponents Year Built	Repair, Replacement,	ASME Code Stamped
Name of Component Piping	Name of	Manufacturer	Nat.	Other	Year	Repair,	
Name of Component Piping	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID. 1B13-	Year Built	Repair, Replacement, or Modification	Code Stamped
Name of Component Piping	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID. 1B13-	Year Built	Repair, Replacement, or Modification	Code Stamped
Name of Component Piping System	Name of Manufacturer General Electric	Manufacturer Serial No. 1B13	Nat. Board No. 64077	Other ID. 1B13- D0008	Year Built 1984	Repair, Replacement, or Modification Replacement	Code Stamped Yes
Name of Component Piping System Description 19 8 Ea. Ca 1 A4657 usir	Name of Manufacturer General Electric of Work: <u>Replacec</u> pscrew Ht# 13485	Manufacturer Serial No. 1B13 1B13 <u>1 3 each CRDMs.</u> per WO 01-01664 HT# 13433 per W	Nat. Board No. 64077 64077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 840777 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84	Other ID. 1B13- D0008 S/N A5649 0. Replace 0, R-00 an	Year Built 1984 at Core Ic d S/N A50 d replace	Repair, Replacement, or Modification Replacement	Code Stamped Yes S/N A5691 Dn 22-11 with or e location
Name of Component Piping System Description <u>ng 8 Ea. Ca</u> I A4657 usir 31 with S/N	Name of Manufacturer General Electric of Work: <u>Replacec</u> pscrew Ht# 13485 ng 8 Ea. capscrew A4611 using 8 Ea.	Manufacturer Serial No. 1B13 1B13 <u>13 each CRDMs.</u> per WO 01-01664 HT# 13433 per W Capscrew HT# 1	Nat. Board No. 64077 64077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 840	Other ID. 1B13- D0008 S/N A5649 0. Replace 0, R-00 an VO 01-167/	Year Built 1984 at Core Ic d S/N A50 d replace	Repair, Replacement, or Modification Replacement	Code Stamped Yes S/N A5691 Dn 22-11 with or e location
Name of Component Piping System Description ng 8 Ea. Ca NA4657 usir 31 with S/N	Name of Manufacturer General Electric of Work: <u>Replaced</u> pscrew Ht# 13485 ng 8 Ea. capscrew A4611 using 8 Ea.	Manufacturer Serial No. 1B13 1B13 13 each CRDMs. per WO 01-01664 HT# 13433 per W Capscrew HT# 1 20006 9691, f	Nat. Board No. 64077 64077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 84077 840	Other ID. 1B13- D0008 S/N A5649 0. Replace 0, R-00 an VO 01-1670	Year Built 1984 <u>at Core k</u> <u>d S/N A56</u> <u>d replace</u> 07, R-00.	Repair, Replacement, or Modification Replacement cation 10-27 with so 84 at Core Location d S/N A3620 at Co SAP ORDER M	Code Stamped Yes S/N A5691 Dn 22-11 with or e location

9.	Remarks:
	``````````````````````````````````````
	NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Ю	te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded or the front of this form.
ſ	CERTIFICATE OF COMPLIANCE
	I, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
	National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires <u>9-26</u> , 20 <u>05</u> Date <u>June 3</u> , 20 <u>03</u> Signed <u>FENOC-PNPP</u> <u>QE</u> (name of repair organization) (title)
	National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26, 20 05
	National Board Certificate of Authorization No.       33       to use the "NR stamp expires 9-26       20 05         Date June 3       20 03       Signed FENOC-PNPP (name of repair organization)       QE       QE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION       (title)         I, Thomas G. Laps       , holding a valid commission issued by The National Board of Boiler and
	National Board Certificate of Authorization No.       33       to use the "NR stamp expires 9-26       20 05         Date June 3       20 03       Signed       FENOC-PNPP (name of repair organization)       QE       QE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, Thomas G. Laps
	National Board Certificate of Authorization No33to use the "NR stamp expires 9-26, 20 05
	National Board Certificate of Authorization No33to use the "NR stamp expires 9-26, 20 05
	National Board Certificate of Authorization No33to use the "NR stamp expires 9-26, 20 05
	National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires <u>9-26</u> , 20 <u>05</u> Date <u>June 3</u> , 20 <u>03</u> Signed <u>FENOC-PNPP</u> (name of repair organization) <u>9-26</u> <u>QE</u> (title) <u>Q</u>
	National Board Certificate of Authorization No.       33       to use the "NR stamp expires 9-26       20 05         Date June 3       20 03       Signed FENOC-PNPP       QE       QE         (name of repair organization)       (utbolized representative)       QE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, Thomas G. Laps       , holding a valid commission issued by The National Board of Boiler and         Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO       OHIO         and employed by Hartford Steam Boiler Ct.       of Hartford, Conn.       have         inspected the repair, modification or replacement described in this report on Junite II, 20 03       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,
	National Board Certificate of Authorization No.       33       to use the "NR stamp expires 9-26       20 05         Date June 3       20 03       Signed
	National Board Certificate of Authorization No.       33       to use the "NR stamp expires 9-26       20 05         Date June 3       20 03       Signed FENOC-PNPP       QE       QE         (name of repair organization)       (utbolized representative)       QE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, Thomas G. Laps       , holding a valid commission issued by The National Board of Boiler and         Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO       OHIO         and employed by Hartford Steam Boiler Ct.       of Hartford, Conn.       have         inspected the repair, modification or replacement described in this report on Junite II, 20 03       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,

.

REPORT N	ю. РС	059-009
----------	-------	---------

·	Sheet 1 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PA As required by the Provision of the ASME Code Rules. Section	Sheet 1 of 2 RT AND APPURTENANCES. III. Div. 1 1813-039 SHT. 2067
. (a) Manufactured by General Electric Company, Castle Hayne Rd.,	Wilmington, N.C.
(b) Manufactured for General Electric Company, San Jose, Californ (Hame and address of N Certificate Holder for completed )	ia (NEBG)
Identification-Certificate Holder's Serial No. of Part A5691Nar'l B	
(a) Constructed According to Drawing No Drawing Prepared by	D. L. Peterson
(b) Description of Part Inspected Control Rod Drive, Model #7RDB144D	
(c) Applicable ASME Code: Section III, Edition 1974 , Addenda date W'75 , Ca	N207 1361-2 1 Lise NoClass
Remarks: Standard part for use with Reactor. Hydrostatically	tested at 1820 psi.
(Brist description of service for which component was	designed .
* Total number of sheets - 2	
ne Holder for appurtenances is responsible for furnishing a separate Design Specification and cluded in the component Design Specification and Stress Report.)	Stress Report if the appurtenance is not
te Holder for appurtenances is responsible for furnishing a separate Design Specification and stress Report.) tuded in the component Design Specification and Stress Report.) te7/2419.81GE, NEPD-Web-QABy	Stress Report is the appurtenance is not Ottoridenmici
te Holder for appurtemances is responsible for furnishing a separate Design Specification and Huded in the component Design Specification and Stress Report.) tre7/2419.81SignedGE, NEPD-WeD-QABy GPT Certificate Holder: retificate of Authorization ExpiresSeptember_15, 1981Certificate of Authorization CERTIFICATION OF DESIGN FOR APPURTENANCE (when	Stress Report if the appurtenance is not <u>Ottoridenmic</u> prizacion No. <u>NPT N-1151</u> a applicable)
te Holder for appurtenances is responsible for furnishing a separate Design Specification and Huded in the component Design Specification and Stress Report.) re	Stress Report if the appurtenance is not <u>Ottoridenmic</u> prizacion No. <u>NPT N-1151</u> a applicable)
the Holder for appurtemances is responsible for furnishing a separate Design Specification and Stress Report.) the component Design Specification and Stress Report.) the <u>7/24</u> <u>19.81</u> Signed <u>GE, NEPD-WMD-QA</u> By <u>(NPT Certificate of Author</u> reficate of Authorization Expires <u>September 15, 1981</u> Certificate of Author CERTIFICATION OF DESIGN FOR APPURTENANCE (when Design information on file at <u>GE, NEPD-WMD-QA</u> , Castle Hayne Rd., Willim 22A5556, Rev. 2- Stress analysis report on file at <u>GE, NEPD-WMD-QA</u> , Castle Hayne Rd., Willim	Stress Report if the appurtemance is not <u>Ottoudenmui</u> prization No. <u>NPT N-1151</u> a spplicable) ington, N.C.
a Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report.) te	Stress Report if the appurtemance is not <u>Ottoudenmui</u> prization No. <u>NPT N-1151</u> a spplicable) ington, N.C.
the Holder for appurtemances is responsible for furnishing a separate Design Specification and Stress Report.) The component Design Specification Expires. September 15, 1981. Certificate of Anthone CERTIFICATION OF DESIGN FOR APPURTENANCE (when CERTIFICATION OF DESIGN	Stress Report if the appurtemance is not <u>Ottoudeumui</u> prizetion No. <u>NPT N-1151</u> a spplicable) ington, N.C. mington, N.C.
Le Holder for appurtemances is responsible for furnishing a separate Design Specification and tuded in the component Design Specification and Stress Report.) The	Stress Report if the appurtemance is not <u>Ottouleumui</u> prization No. <u>NPT N-1151</u> a spplicable) ington, N.C. mington, N.C. g. Scare <u>Calif</u> Reg. No.18345
te Holder for appurtemances is responsible for furnishing a separate Design Specification and tuded in the component Design Specification and Stress Report.) te	Stress Report if the appurtemance is not <u>(Utrudeumui</u> ) prization No. <u>NPT N-1151</u> a spplicable) ington, N.C. <u>mington, N.C.</u> <u>s. State Calif</u> Reg. No.18345 <u>s. State Calif</u> Reg. No.18345 <u>s. State Calif</u> Reg. No.18345 <u>s. State Calif</u> Reg. No.18345
the Holder for appartemances is responsible for fermishing a separate Design Specification and Stress Report.)  the component Design Specification and Stress Report.)  te	Stress Report if the appurtemance is not <u>(Utrudeumui</u> ) prization No. <u>NPT N-1151</u> a spplicable) ington, N.C. <u>mington, N.C.</u> <u>s. State Callif</u> Reg. No.18345 <u>s. State Callif</u> Reg. No.18345
CERTIFICATION OF DESIGN FOR APPURTENANCE (where CERTIFICATION OF DESIGN FOR APPURTENANCE (where CERTIFICATION OF DESIGN FOR APPURTENANCE (where Design information on file as GE, NEPD-WHD-QA, Castle Hayne Rd., Wilm 22A5556, Rev. 2. Stress analysis report on file at GE, NEPD-WHD-OA, Castle Hayne Rd., Wilm 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng Stress analysis report certified by B. N. Sridhar Prof. Eng CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the Nacional Board of Boild and/or the State of Province of North Carolina and employed by Department a State of North Carolina have inspected the part of a p artial Data Report on 7/24 is 81 and bellef, the NPT Certificate Holder has constructed this part in accordance with the ASMEC	Stress Report if the appurtemance is not <u>(Utrudeumui</u> ) prization No. <u>NPT N-1151</u> a spplicable) ington, N.C. <u>mington, N.C.</u> <u>s. State Callif</u> Reg. No.18345 <u>s. State Callif</u> Reg. No.18345

· · · · ·

L 5	4-8 Incl. to be c							•	
		· · · · · · · · · · · · · · · · · · ·					-	•	
	hell: Macerial	T.S. Spec. No.) (Min	No Th of Renge S	miaal Nickness pecified)	Corro _ in. Allow	sion vancein.	Dia ft	in. Length_	fr in.
	esms: Long								
	Girth	я	۳١		9 T		No. of Courses		
5. Н	ends: (a) Materia	l		T.S.	- ^	(b) Materia	al	T.S.	
	Location (Top, bettom, end		Crown		Elliptical Ratio	Conical Ages Angle			Side to Press.
(.	.)								•••
	)								
	removable, bolts	used				Other fast	eniag(Der		
			• -	e., T.J., Jise				eribe or attac	h sketch}
. Ja	cker Closure:	cribe as ogen and	weld, bar, et	c. If ber save	dimensions.	if boited, deser	be of sketchi		·
	12			•	•		Drop 1	lei ght	
	esign pressure <sup>2</sup>	1250				575	°F at term		
	esita pressure			psi a			C AL (CEUM)	5. of	···
ms 9	9 and 10 to be con	npieted for tube	sections			******	······		
Ť.	ube Sheets: Statio	aary, Material		Dia		Thic	knessin. A	ttachment	
			Kind & Spe	c. No.)	(Subject te	pressure)		(	Weided, Boited)
	Float ubes: Material	ing, Material .		Di =	h	Thic	knessin. A	ttachment_	
. Ti	ubes: Material _		. 0.D	is. Thi	ckaess		. Number	Type	
									(Str. or U)
	hell: Material (Xind a rama: Long	Spec. No.) (Mis.	of Range Sp	ecilled)					
	•						•		
. He	eada (a) Material			. T.S	·····		l	T.S	
	Location	Thickness	Crown Radius	Knuckle Rediue		Conical Apex Angle	Hemiopherical Radius	Flat Diameter	Side to Press. (Canv. or Conc.)
	) Top, boccom, en	ds							
	) Channei								
	removable, boics	used (2)		)	(c)	Ut	her fascening	Describe of a	Itach Iketch)
								eight	(t-lb
	esign pressure <sup>2</sup>							Impact	э <sub>г</sub>

-

:•

CCOOLES about the set of the set

\_\_\_\_

. --- -

• ----ol- 374 4.50 C 6.00214

REPORT	NO.	P0059-009
		****

· · ·	Sheet 2 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT F As required by the Provision of the ASME C	
I. (a) Manufactured by General Electric Company, Castle	Hayne Rd., Wilmington, N.C.
(b) Manufactured for General Electric Company, San Jo	se, California (NEBG)
(Name and address of N Certificat 2. Identification-Certificate Holder's Serial No. of Part A5691	te Holder for completed nuclear component)
(a) Constructed According to Drawing No. 768E534G001 Draw	
(b) Description of Part Inspected Control Rod Drive	
(c) Applicable ASME Code: Section III, Edition, Addenda d	N207
(c) Applicable ASME Code: Section III, Edition, Addenda a	ECC
1. Cap 166B9274P1	0
· (167A2343)	Code weld
SA182 - F316 3/8 thick x 1 1/16 OD	P50YP102
2. Indicator Pipe 166E9313P1	
SA312-TP316	
3/4 sch 40-seamless pipe 0.113 wall thickness	
1.065 max. dia.	
•	Reactor vessel '
3. Plug 159A1176P1	
SA182-F304	i
1/4 thick x 0.812 0D	
4. Flange 919D610P1 (719E474) .SA182-F304	Code weld
3.37 thick $x = 5/8$ OD	
neck 1 1/16 thick x 5.0 0D	
- 2.875 ID	
5. Base 137C5311P1	
XM-19 ASME SA479 3.0 OD x .884 ID	
3.0 00 X .884 10	
6 Ding Flamos 1140510000	
6. Ring Flange 114B5122P2 SA182-F304	Code weld
1" thick x 5.0 0D x 1.75 ID	P50YP102 9
:	
7. Cap Screw 117C4516P2	
SA193-B6	CONTROL ROD DRIVE DWG - 768E534
6 ea. 1/2 dia. on 4 1/8 bolt circle	URG - 7000334
9 Dius 1754700101	9. Nut 137C5934P1
8. Plug 175A7961P1 SA182-F304	XM-19 SA479
0.38 thick x 1.307 dia.	1.30 thick x.2.62 dia.
· - •	00640

- -----

.

	REPORT NO. P0059-009
•	Sheet 1 of 2 16977
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND AP As required by the Provision of the ASME Code Rules. Section III. Div. 1	1813-039 541-4067
(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmingto	Da, N.C.
(b) Manufactured for General Electric Company, San Jose, California (NEBG)	
Mame and address of N Certificate Holder to completed auclear compose L. Identification-Certificate Holder's Serial No. of Part	
(a) Constructed According to Drawing No D. L. I	
(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001	
(c) Applicable ASME Code: Section III, Edition, Addenda date W'75, Case No	1-2 1 Class
Remarker Standard part for use with Reactor. Eydrostatically tested a (Brief description of service for which component was designed)	it 1820 pei.
* Total number of sheets - 2	
Date 7/24 19 81 Signed GE, NEPD-WMD-QA By Clifford (NPT Certificate Holder) Certificate of Authorization Expires September 15, 1981 Certificate of Authorization No.	Inmui NPT N-1151
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable	2)
GE, NEPD-WAD-QA, Castle Hayne Rd., Wilmington, Month Stranger	1.C.
22A5556, Rev. 2- Scress malysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington,	N.C.
22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. State Cali	Lf Reg. No.18345
Stress analysis report certified by B. N. Sridhar Prof. Eng. State Cali	E Reg. No. 18345
CERTIFICATE OF SHOP INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Press and/or the State or Province of <u>North Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have inspected the part of a pressure ves Partial Data Report on <u>7/24</u> 1981, and state that to the	sel described in this e best of my knowledge
and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section I By signing this certificate, neither the inspector not his employer makes any warranty, expresse ing the part described in this Partial Data Report. Furthermore, neither the inspecto shall be liable in any manner for any personal injury or property damage or a loss of any kind aris with this inspection.	d or implied, concern- r nor his employer
Date 7/24 19 81 N.C. 723, PA.WC	

"Supplemental shorts in form of lists, skotches or drawings may be tood provided (1) size in 8%\*\* 1 11\*\*, (2) information in stome 1+2 on this Dia Arovi discissed of each short, and (3) each short is numbered and number of shorts in revease in som 3. "Arments"

•

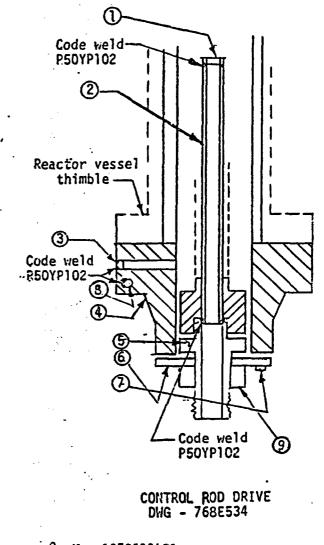
This form (E000.40) may be obtained from the Order Debt. ASME: STO E. 17 Thr St., New York, N.Y. 10017

								or shells of he		
٩.	Shell:	Material	T.S	No TI . of Renge S	omiaal hickness peculied)	Corro _ in_ Allow	tion 2002 in.	9ia ft	in. Length_	ft in.
								Efficiency		
		Girth	54.	T.1		. R.T.		No. of Courses		
6.	Headar							4		
	(Top	Location , button, ends)	Thicksess	Crown Radius	Xauchio Radius	Elliptical Ratio	Conical Apez Angle	Hemispherical Radius	Flat Dismeter	Side 18 Press. (Canv. or Cone.
										·
								mine	eribe or attac	
7.							i belted, deser	ibe or sketch)		
8.	Design	pressure <sup>2</sup>	1250		psi at		575	<b></b>	Ideact	ft=i
lem	s 9 and	10 to be comp	leted for tube	sections						
								kness ia. A		
_	<b>-</b>	Floatin	g. Material .		Dia	<b>.</b>	Thic	knessin. A	atschment	
<b>U.</b>	1 10633	Material		. 0.0		CXDC 3 3	OF EEEe	, , , , , , , , , , , , , , , , , , ,		(Str. or U)
lest	s 11-14	t incl. to be co	empleced for i	aner cham	bers of jac	kered vesse	is, or channel	is of heat exchange	agers.	
		(Kind & Sp	we. No.) (Min.	at Range Sp	ec:fied}		saceia.	Dia ft		
2	Seaas							Efficiency		
		Girch		.T.'				No. of Courses		
3.	Heads	(a) Material	Thickness	Crown	_ T.S Xnuckie Radiue	Elliptical Ratio	Concel	l Hemspherical Radius	Fint Diameter	Side to Press. (Conv. or Cone
	(a) Top (b) Cha						•			
	lf remo	vable, bolta u	red (a)	(	)	(c)		her fascening	Describe or a	
								Charpy	reight / Impact	(e-l
14.	Design	pressure <sup>1</sup>			psi al	·			p. of	
	s below	to be complet	ed for all ver	sseis when	e applicabl	e.				• • • • • • • • • • •
tem										
			Number		, Size	L			· ·	
<u>s.</u>	Salery Nazzle	Valve Outlets: s:								
	Nozzle Pupor	s: e · Iniet,	Number	Dia, or Siz	• Typ	ie Mat	erial Thi		nforcement leteriai	Haw Attached
	Nozzle Pupor	s: 		Dia, or Sis	·				lateriai	How Attached
.s.	Nozzie Purson Outlet	12: 10 - Inlet. . Drmn: 	Number	Si				JCZN000	leteriel	
:5. :6.	Nozzie Purson Outlet	s: .o.iniet. . Drmas 	Number	Si Si		Loca		scanes)	leteriel	

## FORM N-2 (back)

	Sheet 2 of 2
FORM N-2 NP	T CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES As required by the Provision of the ASME Code Rules. Section III. Div. 1 (1613-039) 5 of 7
I. (a) Manufactured by	General Electric Company, Castle Hayne Rd., Wilmington, N.C. (Name and address of NPT Certificate Holder)
(b) Manufactured for_	General Electric Company, San Jose, California (NEBG) (Name and address of N Certificate Holder for completed nuclear component)
2. Identification-Certifics	te Holder's Serial No. of Part A4657 Nat'l Bd. No
(a) Constructed Acc	ording to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
(b) Description of P	urt Inspected Control Rod Drive, Model #7RDB144DG001
(c) Applicable ASME	N207 Code: Section III, Edition <u>1974</u> , Addenda date <u>W'75</u> , Case No. <u>1361–2</u> Class <u>1</u>

- 1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 0D
- 2. Indicator Pipe 166E9313P1 SA312-TP316 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.
- 3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 OD
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
  - 6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 0D x 1.75 ID
  - 7. Cap Screw 117C4516P2 SA193-B6 6 ea. 1/2 dia. on 4 1/8 bolt circle
  - Plug 175A7961P1 SA182-F304 0.38 thick x 1.307 dia.



9. Nut 13705934P1 XM-19 SA479 1.30 thick x 2.62 dis. 00580

	Sheet 1 of 2
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT	FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME	Code Rules, Section III, Div. 9 1813-0395 54166675
(s) Manufactured by General Electric Company, Cast	Le Hayna Rd., Wilmington, N.C.
	Iose, California (NEBG) ate Holder for completed auciest composed
	Nat'l Bd. No
(a) Constructed According to Drawing No. 768E534G001 Dr	wing Prepared by D. L. Patarson
(b) Description of Part Inspected Control Rod Drive, Mc	
(c) Applicable ASME Code: Section III, Edition Addends	dare Case No Class 1
Remarks: Standard part for use with Reactor. By (Brief description of service for	drostatically tested at 1820 psi.
* Total number of sheets - 2	
We certify that the statements made in this report are correct and this must to the rules of construction of the ASME Code Section III. The applicable Design Specification and Stress Report are not the responsi- tive Holder for appurtenances is responsible for furnishing a separate Desi- cluded in the component Design Specification and Stress Report.)	bility of the NPT Certificate Holder for parts. An NPT Certain Specification and Stress Report if the appurtenance is
are <u>4/18</u> 19 83 are <u>19/122010</u> Signed <u>CE, NEPD-WAD-</u> Bare <u>19/122010</u> Signed <u>CE, NEPD-WAD-</u> CONTENDED SIGNED	bility of the NPT Certificate Holder for parts. An NPT Ces an Specification and Stress Report if the appurtenance is By A. C. Mouleumue
cms to the rules of construction of the ASME Code Section III. he applicable Design Specification and Stress Report are not the responsi- he Holder for appurtenances is responsible for furnishing a separate Desi	bility of the NPT Certificate Holder for parts. An NPT Ces an Specification and Stress Report if the appurtenance is By A. C. Mouleumue
are <u>4/18</u> 19 83 are <u>19/122010</u> Signed <u>CE, NEPD-WAD-</u> Bare <u>19/122010</u> Signed <u>CE, NEPD-WAD-</u> CONTENDED SIGNED	bility of the NPT Certificate Holder for parts. An NPT Cer an Specification and Stress Report if the appurtenance is By A. C. Montenance Certificate of puthorization No. NPT N-1151
ms to the rales of construction of the ASME Code Section III. The applicable Destan Specification and Stress Report are not the responsi- tie Holder for appurtenances is responsible for furnishing a separate Desi cluded in the component Design Specification and Stress Report.) are	bility of the NPT Certificate Holder for parts. An NPT Cer an Specification and Stress Report if the appurtenance is Br. A. A. MPT Methodeless Certificate of Authorization No. NPT N-1151 RTENANCE (when applicable)
ems to the rales of construction of the ASME Code Section III. The applicable Design Specification and Stress Report are not the responsi- tive Holder for appurtenances is responsible for furnishing a separate Desi- cluded in the component Design Specification and Stress Report.) are4/18	bility of the NPT Certificate Holder for parts. An NPT Cer an Specification and Stress Report if the appurtenance is By A. C. M. C. M. MPT N-1151 Certificate of Authorization No. NPT N-1151 RTENANCE (when applicable) N JOSE, CALIFORNIA
ems to the rales of construction of the ASME Code Section III. The applicable Design Specification and Stress Report are not the responsi- tive Holder for appurtenances is responsible for furnishing a separate Design are	bility of the NPT Certificate Holder for parts. An NPT Cer an Specification and Stress Report if the appartemence is By A. C. M. C. M.
ems to the rales of construction of the ASME Code Section III. The applicable Design Specification and Stress Report are not the responsi- tive Holder for appurtenances is responsible for furnishing a separate Design are	bility of the NPT Certificate Holder for parts. An NPT Ces gn Specification and Stress Report if the appurtenance is Br A. C. Mortenance is Certificate of Authorization No. NPT N-1151 RTENANCE (when applicable) N JOSE, CALIFORNIA N JOSE, CALIFORNIA
ems to the rales of construction of the ASME Code Section III. The applicable Design Specification and Stress Report are not the responsible the Holder for appurtenances is responsible for furnishing a separate Design ate	bility of the NPT Certificate Holder for parts. An NPT Cer an Specification and Stress Report if the appurtenance is By A. C. M. C. MPT N-1151 Certificate of Authorization No. NPT N-1151 RTENANCE (when applicable) N JOSE, CALIFORNIA N JOSE, CALIFORNIA Prof. Eng. State Calif. Reg. No.18345 Prof. Eng. State Calif. Reg. No.18345
ems to the rules of construction of the ASME Code Section III. The applicable Design Specification and Stress Report are not the responsible the Holder for appurtenances is responsible for furnishing a separate Desi cluded in the component Design Specification and Stress Report.) are <u>4/18</u> <u>19</u> <u>83</u> Signed <u>GE</u> , NEPD-WED GET Certificate Holder ertificate of Anthonization Expires <u>Stress</u> Holder CERTIFICATION OF DESIGN FOR APPUI Design information on file as <u>GENERAL ELECTRIC CO.</u> , SAN 22A5556, Rev. 2 Stress analysis report on file at <u>22A4912</u> , Rav. 2 Design specifications certified by <u>B. N. Sridhar</u> Stress analysis report certified by <u>B. N. Sridhar</u> CERTIFICATE OF SHOP L, the undersigned, bolding a valid commission issged by the Nam	bility of the NPT Certificate Holder for parts. An NPT Ces gn Specification and Stress Report if the appurtenance is By <u>Attructeumuc</u> Certificate of authorization No. <u>NPT N-1151</u> RTENANCE (when applicable) N JOSE, CALIFORNIA A JOSE, CALIFORNIA Prof. Eng. State <u>Calif</u> Reg. No.18345 Prof. Eng. State <u>Calif</u> Reg. No.18345 INSPECTION ional Board of Boiler and Pressure Vessel Inspectors
ems to the rales of construction of the ASME Code Section III. The applicable Design Specification and Stress Report are not the responsi- tive Holder for appurtenances is responsible for furnishing a separate Desi cluded in the component Design Specification and Stress Report.) are <u>4/18</u> <u>19</u> <u>83</u> Signed <u>GE</u> , NEPD-WED corr Certificate Holder ertificate of Authorization Expires <u>Specification of Certificate Holder</u> CERTIFICATION OF DESIGN FOR APPUI Design information on file at <u>GENERAL ELECTRIC CO.</u> , SAN 22A5556, Rev. 2 Stress analysis report on file at <u>GENERAL ELECTRIC CO.</u> , SAN 22A4912, Rev. 2 Design specifications certified by <u>B. N. Sridhar</u> Stress analysis report certified by <u>B. N. Sridhar</u> CERTIFICATE OF SHOP L, the undersigned, bolding a valid commission issged by the Nat and/or the State of Province of <u>North Carolina</u> and employed of <u>State of North Carolina</u> have inspect	bility of the NPT Certificate Holder for parts. An NPT Ces gn Specification and Stress Report if the appurtenance is By <u>Attructeumuc</u> Certificate of a pressure Vessel Laspectors M JOSE, CALIFORNIA M JOSE, CALIFORNIA Prof. Eng. State Calif_ Reg. No.18345 Prof. Eng. State Calif_ Reg. No.18345 INÉPECTION ional Board of Boiler and Pressure Vessel Laspectors ed by <u>Department of Labor</u> ted the part of a pressure vessel described in this
ems to the rales of construction of the ASME Code Section III. The applicable Design Specification and Stress Report are not the responsi- tive Holder for appurtenances is responsible for furnishing a separate Desi cluded in the component Design Specification and Stress Report.) are <u>4/18</u> <u>19</u> <u>83</u> Signed <u>GE</u> , NEPD-WED corr Certificate Holder ertificate of Authorization Expires <u>Specification of Certificate Holder</u> CERTIFICATION OF DESIGN FOR APPUI Design information on file at <u>GENERAL ELECTRIC CO.</u> , SAN 22A5556, Rev. 2 Stress analysis report on file at <u>GENERAL ELECTRIC CO.</u> , SAN 22A4912, Rev. 2 Design specifications certified by <u>B. N. Sridhar</u> Stress analysis report certified by <u>B. N. Sridhar</u> CERTIFICATE OF SHOP L, the undersigned, bolding a valid commission issged by the Nat and/or the State of Province of <u>North Carolina</u> and employed of <u>State of North Carolina</u> have inspect	bility of the NPT Certificate Holder for parts. An NPT Cer an Specification and Stress Report if the appurtenance is By
ms to the miles of construction of the ASME Code Section III. he applicable Design Specification and Stress Report are not the responsible the Holder for appurtenances is responsible for furnishing a separate Design cluded in the component Design Specification and Stress Report.) are	bility of the NPT Certificate Holder for parts. An NPT Cer an Specification and Stress Report if the appartemance is By Attructemmus: Certificate of authorization No. NPT N-1151 RTENANCE (when applicable) N JOSE, CALIFORNIA NJOSE, CALIFORNIA NJOSE, CALIFORNIA Prof. Eng. Scare Callf Reg. No.18345 Prof. Eng. Scare Callf Reg. No.18345 NSPECTION Sional Board of Boiler and Pressure Vessel Inspectors of by Department of Labor ted the part of a pressure vessel described in this /18 19 83 and state that to the best of my knowledge appendent of Inspector and his employer

"Supplemental shoots in form of lists, skotches or drawings may be used provided (1) atav is SW" z 11", (2) inform But Browt II Haladed as each most, and (3) each most y angulared and humber of about y recercived in stars 2. "Remarks". a 1-1 ea t . . .

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

FORM N-2 (back) Items 4-8 Incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers, Nominal Corrosica 4. Shell: Material T.S. Thickness. (Kind & Sper. No.) (Min. of Range Specified) ia. Allowance in. Diam francia. Length fr \_ is \_ H.T.<sup>1</sup> 5. Seins Long\_ . R.T.\_ \_\_\_ Efficiency\_\_\_\_ .H.T. Ginh\_ R.T. . No. of Courses \_ 6. Hends: (a) Material. T.S. (b) Material T.S. Crown Elliptical Conical Location Xouckie Healspherical Tint Side to Press. (Top, bottom, ends) Radius Redine . Ratia Radius Thickness Apex Angle Dismeter (Conv. or Conc.) (=)\_ (b)\_ If removable, bolts used. Other fastening\_ (Material, Spec. No., T.S., Size, Number) (Describe or stach sketch) .... Drop Weight\_ Charpy Impace\_ fr-ib 1250 575 97 8. Design pressure<sup>2</sup>\_\_\_ \_\_ pei == \_\_\_ st temp. of \_\_\_\_ °F Items 9 and 10 to be completed for tube sections. Dia. (Subject to pressure) 9. Tube Sheets: Stationary. Material. (Kind & Spec. No.) Floating. Material ..... Dia, \_\_ Thickness in. Attachment. laches or gage, Number ..... 10. Tubes: Material \_\_\_\_ \_Type\_ (Str. or U) Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. Nominal Corrosioa rial \_\_\_\_\_ T.S. \_\_\_\_ Thickness (Klod & Spee, No.) (Min. of Range Specified) IL Shells Material in. Allowance \_\_\_\_in. Dia\_\_\_\_ fr.\_\_\_in. Length\_\_\_\_ft. \_\_ Thickness. .ia. 12. Seams: Long\_\_\_\_ \_H.T.'\_ \_\_\_\_ Elficiency\_\_\_ . R.T. \_ . 7 \_\_\_\_\_ H.T.<sup>1</sup>\_\_\_ . R.T. Girch. No. of Courses. 13. Heads (a) Material\_ T.S. (b) Material\_ T.S. Flat Side to Press. Elliotical Contest Hemispherical Kauckle Crown (Coav. or Cone.) Location Disseter Radius Ratio Apex Abele Radius (a) Top, bottom, ends\_ (b) Channel . Other fastening (Describe se attach skatch) If removable, bolts used (a)\_\_\_ \_(b)\_ (c) Drop Weight\_ \_(ભીક Charpy Impact\_ ٩° 14. Design pressure<sup>2</sup> 97 pai at at temps of ..... Items below to be completed for all vessels where applicable. ..... 15. Safety Valve Ourlets: Number, Size Location 16. Nozzlesz Purpose (Inlet, Reinforcement How Attached Outlet, Drain) Die, or Size Thickness Material Number Type Material 17. Inspection Manholes, No.\_ Size. Location Openiags: Handholes, No.\_\_ Size L'ocation. Threaded, No .\_ . Size. \_ Locacion 18 Summer Stim ....

•	•	Sheet 2 of 2
	FORM N.2 NPT CERTIFICATE HOLDE	ERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES •
•		ovision of the ASME Code Rules, Section III, Div. 1/13/3-039
	the reduce of me re-	1541 7067 5
		Company, Castle Eayne Rd., Wilmington, N.C. (Name and address of NPT Certificate Holder)
(b) M	soufscoured for General Electric	Company, San Jose, California (NEBG)
2. Identi	fication-Certificate Holder's Serial No. of Pa	A4611
(a) (	Constructed According to Drawing No.	768E534G001 Drawing Prepared by D. L. Peterson
(b) I	Description of Part InspectedG	ontrol Rod Drive, Model #7RDB144DG001
(c) <i>[</i>	Applicable ASME Code: Section III, Edition.	N207 1974, Addenda dateW'75 Case No. 1361-2 Class1
		• •
	• •	· · · · ·
		· · · · ·
-		•
1.	Cap 16689274P1	
	(167A2343)	Code wold
	\$A182 - F316 3/8 thick x 1 1/16 0D	Code weld PS0YP102
•	Sto thick x 1 1/10 00	
•		
2.	Indicator Pipe 166E9313P1	
	SA312-TP316	
	3/4 sch 40-seamless pipe 0.113 wall thickness	
	1.065 max. dia.	
		Reactor vessel
9	Bing 1504137603	thimble 1 1
J.	Plug 159A1176P1 SA182-F304	
•	1/4 thick x 0.812 00	
•		
	Man - Alexand Internet	
. 4.	Flange 919D610P1 (719E474) .SA182-F304	Code weld
	3.37 thick x 9 5/8 0D	R50YP102
	neck 1 1/16 thick x 5.0 0D	
•	2.875 ID	
•	•	
· c	Base 137C5311P1	
	XM-19 ASME SA479	
•	3.0 GD x .884 ID	
	010 05 X 1004 15	
2	Ding Elange 11 (0510000	
υ.	Ring Flange 11485122P2 SA182-F304	
	1" thick x 5.0 0D x 1.75 ID	Code weld D P50YP102 D
		POUTFIUZ
7	Can Sonal 1370453 cho	
1.	Cap Screw 117C4516P2 SA193-B6	CONTROL ROD DRIVE
•	6 ea. 1/2 dia. on 4 1/8 bol	
	- cut it cuto. Ull 4 1/0 DOI	
•	D1	9. Nut 13705934P1 000008
8.	Plug 175A7961P1 SA182-F304	XM-19 SA479 00508
*	00102-FJV4 0 00 112-1 1 1 207 415	1.30 thick x 2.62 dia.
		111

:

\*\*\*\*

•

:

••

NIO O							1-331 ENTO
NIS-2 PNPP No. 9308 F		CR'S REPOR			-		NQI-1741
1. Owner: _		TENERGY CORP.				Date 10-8-02 Sheet <u>1 of 1</u>	
			loot (DNDD	 D\		Unit one	
Fidin		<u>Nuclear Power P</u> Road, Perry, Ohio		1		WO 02-10623 R	/1
						(Repair Org. P.O. N	
. Work Pend	ormed By: <u>FIRSTE</u> 10 Ce	<u>NERGY Nuclear Op</u> enter Road, Perry,				Type Code Symt Authorization No	· —
				<u> </u>	•	Expiration Date	5
. Identificatio	n of System: Nuc	lear Boiler System	(1B21)				
	ble Construction C			NOTU	8-8-03		on
		NAME/SEC	TION/DIVISIO				
<u>Winter</u>	19 <u>75</u> /	Addenda Code C	Case(s) 164	14-5, N32-4,	N242, 1	728, N241, N272, I	N282, N413,
(b) Constru	uction Code used f	or repairs, modific	ations, or r	replacement	s: 1974	winter 75	see above
_						ition Addenda	Code Case(s)
(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	<u>1989</u>		<u>n/a</u>
(d) Applica	ble Edition of Secti	on XI Utilized for I	Renairs, M	odification. (		ition Addenda	Code Case(s)
	<u>n/a</u> 19 <u>n/a</u>		-				
(e) Design	Responsibilities F		te Case(s) UCLEAR C	PERATION		NY PNPP	
•••••	n of Components F						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping System	Pullman Power	1B21	109	NA	1985	Modification	Yes
						<u> </u>	
·	<u> </u>	<u> </u>			· · ·		
ļ				<u> </u>	• <u>•</u> •		<u> </u>
1				<b> </b>		:	<b> </b>
		l	1	<u> </u>		<u> </u>	
			ł				
	of Work: SEE REI					-	<u>_</u>
. Test Condu	cted: Hydrosta	lic-  Pneumatic-	Nomina	I Operating	Pressure		~
	cted: Hydrosta		Nomina	I Operating	Pressure	- 🗌 Case(s) <u>na</u>	~

-

.

. ..

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMEN	TS (Back)
PNPP No. 9308 Rev. 9/11/00	NQI-174

9. Remarks: Implemented ECP 02-0237to modify MSIV packing leak off line, by cutting and capping ¼" and 2" pipelines using new ¼"cap HT# 9314, new 2" cap Ht # 028H, new ¼" pipe HT# 231643, and weld rod HT # 65627, F5512, 124715. System abandoned in place, No VTII leakage test required.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370

BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE
I, <u>John W. Messenger</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No33 to use the "NR stamp expires Nov. 26,2005
Date 10/9 20 02-Signed FENOC-PNPP QE
s/s/o 3 (name of repair organization) (authonized representative) (title)
STOPS FENOL-PNOP MITAN QC
· .
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, <u>L.D. Bussard</u> , holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by <u>FACTORY MUTUAL INS. CO.</u> of <u>JOHNSTON, RI</u> have
inspected the repair, modification or replacement described in this report on 10-14, 2002, 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 10-14, 2002 Signed Descard Commissions NOB563 NI OHIS Comm
(inspector) (National Board (include endorsements),
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

						1B2	1-332
NIS-2	/NR-1 OWNE						ENTS
NPP No. 9308 F		quired by the Provi	isions of th	e ASME Co	ode Sectio	on XI	NQI-1741
	EIDS.					Date 10-8-02	
1. Owner:1	Center Road, Po	TENERGY CORP. erry, Ohio 44081				Sheet <u>1 of 1</u>	
2. Plant:	Perry	Nuclear Power Pla	ant (PNPP	<b>'</b> )		Unit one	
		Road, Perry, Ohio 4				WO 02-10629 R	
						(Repair Org. P.O. N	
. Work Perfo	ormed By: <u>FIRSTE</u>					Type Code Symb	
	10_Ci	enter Road, Perry,		<u>91</u>		Authorization No Expiration Date	
						Expandion Date	
. Identificatio	on of System: Nuc	ear Boiler System	<u>(1B21)</u>		8-8-05		
. (a) Applicat	ble Construction Co	ode: <u>ASME SECTI</u> NAME/SECT		VB TG	eie 03	,19 <u>74</u> Editi	on
Winter	19 <u>75</u>				N242 17	728 N241 N272 I	N282 N413
TTERCE	13 <u>15</u> /		196(9) 104		14676, 11		1202, 11410
(b) Constru	uction Code used f	or repairs, modifica	ations, or r	eplacement	s: 1974	winter 75	see above
-			• • •			tion Addenda	Code Case(
(c) ASME	Code Section XI a	plicable for Inservi	ice Inspec	tion:	1989		n/a
						tion Addenda	Code Case(
•••••	ble Edition of Secti	on XI Utilized for F	Repairs, Mo	adification (			
	-1 10 1		•	ouncation, t	or Replac	ements:	
	<u>n/a</u> 19 <u>n/a</u>	Code	e Case(s)		-		
(e) Design	Responsibilities <u>F</u>	Code IRST ENERGY NU	e Case(s) JCLEAR C	PERATION			
(e) Design . Identificatio	Responsibilities <u>F</u> n of Components F	Code IRST ENERGY NU Repaired, Modified,	e Case(s) JCLEAR C , or Replac	DPERATION cement Con	I COMPA	NY PNPP	
(e) Design	Responsibilities <u>F</u>	Code IRST ENERGY NU	e Case(s) JCLEAR C	PERATION			ASME Code Stamped
(e) Design . Identificatio Name of	Responsibilities <u>F</u> n of Components f Name of	Code IRST ENERGY NU Repaired, Modified, Manufacturer	e Case(s) JCLEAR C or Replac Nat. Board	DPERATION cement Con	I COMPA nponents Year	NY PNPP Repair, Replacement,	Code
(e) Design Identification Name of Component Piping	Responsibilities E n of Components f Name of Manufacturer	Code IRST ENERGY NU Repaired, Modified, Manufacturer Serial No.	e Case(s) JCLEAR C , or Replac Nat. Board No.	DPERATION cement Con Other ID.	l COMPA nponents Year Built	NY PNPP Repair, Replacement, or Modification	Code Stamped
(e) Design Identification Name of Component Piping	Responsibilities E n of Components f Name of Manufacturer	Code IRST ENERGY NU Repaired, Modified, Manufacturer Serial No.	e Case(s) JCLEAR C , or Replac Nat. Board No.	OPERATION cement Con Other ID. NA	l COMPA nponents Year Built	NY PNPP Repair, Replacement, or Modification Modification	Code Stamped
(e) Design Identification Name of Component Piping	Responsibilities E n of Components f Name of Manufacturer	Code IRST ENERGY NU Repaired, Modified, Manufacturer Serial No.	e Case(s) JCLEAR C , or Replac Nat. Board No.	OPERATION cement Con Other ID. NA	l COMPA nponents Year Built	NY PNPP Repair, Replacement, or Modification Modification	Code Stamped
(e) Design Identification Name of Component Piping	Responsibilities E n of Components f Name of Manufacturer	Code IRST ENERGY NU Repaired, Modified, Manufacturer Serial No.	e Case(s) JCLEAR C , or Replac Nat. Board No.	OPERATION cement Con Other ID. NA	l COMPA nponents Year Built	NY PNPP Repair, Replacement, or Modification Modification	Code Stamped
(e) Design Identification Name of Component Piping System	Responsibilities E n of Components f Name of Manufacturer Pullman Power	Code IRST ENERGY NL Repaired, Modified, Manufacturer Serial No. 1B21	e Case(s) JCLEAR C Nat. Board No. 109	OPERATION cement Con Other ID. NA	l COMPA nponents Year Built	NY PNPP Repair, Replacement, or Modification Modification	Code Stamped
(e) Design Identification Name of Component Piping System	Responsibilities E n of Components F Name of Manufacturer Pullman Power	Code IRST ENERGY NL Repaired, Modified, Manufacturer Serial No. 1B21	e Case(s) JCLEAR C No. Replace Nat. Board No. 109	OPERATION cement Con Other ID. NA	I COMPA nponents Year Built 1985	NY PNPP Repair, Replacement, or Modification Modification	Code Stamped
(e) Design Identification Name of Component Piping System	Responsibilities E n of Components F Name of Manufacturer Pullman Power of Work: SEE REf cted: Hydrosta	Code IRST ENERGY NL Repaired, Modified, Manufacturer Serial No. 1B21	e Case(s) JCLEAR C Nor Replace Nat. Board No. 109	DPERATION cement Con Other ID. NA	I COMPA ponents Year Built 1985 Pressure	NY PNPP Repair, Replacement, or Modification Modification	Code Stamped

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLAC	EMENTS (Back)
PNPP No. 9308 Rev. 9/11/00	NQI-174

9. Remarks: Implemented ECP 02-0237to modify MSIV packing leak off line, by cutting and capping <sup>3</sup>/<sub>4</sub>" and 2" pipelines using new <sup>3</sup>/<sub>4</sub>" cap HT# 9314, new 2" cap Ht # 028H, new <sup>3</sup>/<sub>4</sub>" pipe HT# 231643, and weld rod HT # 5512, 124715. System abandoned in place, VT II leakage test not required.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370

BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE
I, <u>John W. Messenger</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No33 to use the "NR stamp expires Nov. 26, 2005
Date 10/9 20 02 Signed FENOC-PNPP (authorized representative) QE (itile)
8-8-03 FANOC RUPI July 21 RC
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, <u>L. D. BUSTARD</u> , holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by FACTORY MUTUAL INS. CO. of JOHNSTON, RI have
inspected the repair, modification or replacement described in this report on <u>10-19</u> , 20 <u>02</u> and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date <u>10-14</u> , 2002 Signed <u>Company</u> Commissions <u>NBB563 NE 244 o Comp</u> . (inspector)
Thomas & Lap ANI NB9330 NIA OHIO and jurisdiction, and no.) COMM. 8/8/03

							1B2	1-333
	NIS-2	/NR-1 OWNE	ER'S REPOR					ENTS
E	NPP No. 9308 F							NQI-1741
1	. Owner:	FIRS Center Road, Po	TENERGY CORP. erry, Ohio 44081			. •	Date 10-9-02 Sheet <u>1 of 1</u>	
2	. Plant:	Perry	Nuclear Power Pl	ant (PNPP	')		Unit <u>one</u>	
		10 Center f	Road, Perry, Ohio 4	4081			WO 02-10628 R (Repair Org. P.O. I	
З	. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPF	2	Type Code Syml	ool Stamp <u>NR</u>
		<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>11</u>		Authorization No Expiration Date	
4	. Identificatio	n of System: Nuc	lear Boiler System	(1B21)				With.
		ble Construction Co			VB "TO	r-r-03 L 8 8 0:		on
	•	19 75	NAME/SECT	ION/DIVISIO	N/CLASS		1728, N241, N272	
	<u>N413</u>	10 10_ 1						
	(b) Constru	iction Code used f	or repairs, modifica	ations, or n	eplacemen	ts: <u>1974</u>	winter 75	see above
	- (c) ASME (	Code Section XI ap	nlicable for Inconv	ice Inspec	tion:	Ed. 1989	ition Addenda NO	Code Case(s) n/a
			-			Ed	tion Addenda	Code Case(s)
		ble Edition of Secti <u>n/a                                    </u>		epairs, Me	odification,	or Replac	ements:	
	(e) Design	Responsibilities <u>F</u>		e Case(s) JCLEAR C	PERATIO		NY PNPP	
6	. Identification	n of Components I	Repaired, Modified,	, or Replac	cement Co	mponents		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
	piping	Putiman Power	1B21	109	N/A	1985	Modification	yes
	- <u></u>					1		
							·	
7.	Description	of Work: SEE RE	MARKS SECTION					
8.	Test Conduc	-	ic- Pneumatic-					
	Pressure <u>na</u>	a psi Te	st Temperature <u>na</u>	<u>a</u> (	begrees F	Code	Case(s) <u>na</u>	
			•		·			

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: Implemented ECP-02-0237 to modify MSIV packing leak off line, by cutting and capping <u>%</u> and <u>2" pipelines using new <u>%</u> cap HT# 9314, new <u>2" cap HT# 231643 and weld rod E7018 3/32" HT# 124715 and ER70S -2 3/32" HT# F5512. System abandoned in place, VT II leakage test not required.</u></u>

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370

BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

	CERTIFICATE OF	COMPLIANCE	· · · · · · · · · · · · · · · · · · ·
I, <u>David E. Lindquist</u> , certify the correct and the repair, modification or Code and to the National Board Inspe	replacement of the item		
National Board Certificate of Authoriz	ation No. <u>33</u>	to use the "NR stamp expires I	<u>Nov 26 ,</u> 20 <u>05 </u>
Date <u>Oct 9</u> , 20 <u>02</u> Signed (na	FENOC-PNPP me of repair organization)	authorized to presentative)	CE (title)
8-8-03	FRINC - PNPP	m-1921	d C
		INSERVICE INSPECTION	
1. L. D. BUSSARD	,holding a valid	commission issued by The Nation	nal Board of Boiler and
Pressure Vessel Inspectors and certil	icate of competency issu	ed by the jurisdiction of	OHIO
and employed by FACTORY MUTUA	LINS. CO.	of JOHNSTON, RI	have
Inspected the repair, modification or r	eplacement described in	this report on 10-14, 20 02	and state that to
the best of my knowledge and belief,	this repair, modification o	or replacement has been complete	d in accordance with
Section XI of the ASME Code and the	National Board Inspecti	on Code "NR" rules.	
By signing this certificate, neither the	undersigned nor my emp	oloyer makes any warranty, expres	sed or implied,
concerning the work described in this	report. Furthermore, nei	ther the undersigned nor my emplo	oyer shall be liable in
any manner for any personal injury, p	roperty damage or loss of	f any kind arising from or connect	ed with this inspection.
Date 10-14, 2002 Signed	Bussand (inspector)	Commissions <u>NB9743</u> (National Board	<u>E Oltro Comm.</u> (include endorsements),
Thomas & Japa AN	II HB4338		diction, and no.)

			•		1B2	1-334
NIS-2/NR-1 OWNE						ENTS
As re PNPP No. 9308 Rev. 9/11/00	quired by the Prov	isions of th	e ASME Co	ode Sectio	on XI	NQI-1741
1. Owner: FIRS	TENERGY CORP.				Date 10-9-02	
10 Center Road, Pe	erry, Ohio 44081				Sheet 1 of 1	
2. Plant: Perry	Nuclear Power Pl	ant (PNPP	)		Unit <u>one</u>	
10 Center I	Road, Perry, Ohio	44081			WO 02-10627 R. (Repair Org. P.O. N	
3. Work Performed By: _FIRSTE	NERGY Nuclear Op	erating Con	pany PNPP		Type Code Sym	•
<u>10 C</u>	enter Road, Perry,	Ohio 4408	1		Authorization No	
					Expiration Date	09-26-2002
4. Identification of System: Nuc	lear Boiler System	<u>(1B21)</u>	NIT 8-	<u>د</u>		
5. (a) Applicable Construction Co	ode: ASME SECT		1B TEL	8/8/03	,19 <u>74</u> Editi	on
Winter 19 75	NAME/SECT Addenda Code			4. n242. <sup>-</sup>	1728, N241, N272,	N282.
<u>N413</u>						
(b) Construction Code used for	or repairs, modifica	ations, or n	eplacement	s: <u>1974</u>	winter 75	see above
				Edi	tion Addenda	Code Case(s)
(c) ASME Code Section XI ap	oplicable for Inserv	ice Inspec	lion:	<u>1989</u> Edi	no tion Addenda	<u>n/a</u> Code Case(s)
(d) Applicable Edition of Sect	ion XI Utilized for F	Repairs, Mo	odification, o	or Replac	ements:	
19 <u>89 , n/a</u> 19 <u>n/a</u>		e Case(s)			۰.	
(e) Design Responsibilities <u>F</u>	IRST ENERGY NU	JCLEAR O			NY PNPP	
6. Identification of Components F	Repaired, Modified		ement Con	nponents		
Name of Name of Component Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
piping Puliman Power	1B21	109	N/A	1985	Modification	yes
		ļ				<u> </u> ]
				·		ļ
			·			
				· .		
7. Description of Work: SEE REM	MARKS SECTION			٠.		
	lic-  Pneumatic-		• •			
Pressure <u>na</u> psi Te	st Temperature <u>na</u>	<u>a                                    </u>	legrees F		Case(s) <u>na</u>	- <u></u>
			<u> </u>		····	

## NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: <u>Implemented ECP-02-0237 to modify MSIV packing leak off line, by cutting and capping ¼" and</u> <u>2" pipelines using new ¼" cap HT# 9314, new 2" cap HT# 231643 and weld rod E7018 3/32" HT# 124715 and</u> ER70S -2 3/32" HT# F5512. System abandoned in place, VT II leakage test not required.

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.

CERT	IFICATE OF COMPLIANCE	
I, David E. Lindquist, certify that to the bes	st of my knowledge and belief the statements made ant of the items described above conforms to Sect	
National Board Certificate of Authorization No		<u>ov 26 ,</u> 20 <u>05 </u>
Date Oct 9 20 02 Signed FEN		QE
(name of repair	171	(title)
	c-PNPP snalply	<u>ac</u>
CERTIFICATE OF	INSPECTION/INSERVICE INSPECTION	
1. L. D. Bussaped	holding a valid commission issued by The Nationa	al Board of Boiler and
Pressure Vessel Inspectors and certificate of con	•	OHIO
and employed by FACTORY MUTUAL INS. CO.	of JOHNSTON, RI	have
inspected the repair, modification or replacemen	t described in this report on 18 -14 - 20 -02 -	and state that to
	it described in this report on 10.01. 2002	and state that to
	modification or replacement has been completed	
	modification or replacement has been completed	
the best of my knowledge and belief, this repair, Section XI of the ASME Code and the National B	modification or replacement has been completed	in accordance with
the best of my knowledge and belief, this repair, Section XL of the ASME Code and the National B By signing this certificate, neither the undersigne	modification or replacement has been completed Board Inspection Code "NR" rules.	in accordance with ed or implied,
the best of my knowledge and belief, this repair, Section XI of the ASME Code and the National B By signing this certificate, neither the undersigne concerning the work described in this report. Fur	modification or replacement has been completed Board Inspection Code "NR" rules. Ed nor my employer makes any warranty, express	in accordance with ed or implied, ver shall be liable in
the best of my knowledge and belief, this repair, Section XL of the ASME Code and the National B By signing this certificate, neither the undersigner concerning the work described in this report. Fur any manner for any personal injury, property dan	modification or replacement has been completed Board Inspection Code "NR" rules. Ed nor my employer makes any warranty, express thermore, neither the undersigned nor my employ mage or loss of any kind arising from or connected	in accordance with ed or implied, yer shall be liable in d with this inspection.
the best of my knowledge and belief, this repair, Section XI of the ASME Code and the National B By signing this certificate, neither the undersigne concerning the work described in this report. Fur	modification or replacement has been completed Board Inspection Code "NR" rules. Ed nor my employer makes any warranty, express thermore, neither the undersigned nor my employ nage or loss of any kind arising from or connected mage or loss of any kind arising from or connected commissions <b>JB 85C 3 N T</b> (National Board (i	in accordance with ed or implied, yer shall be liable in d with this inspection.
the best of my knowledge and belief, this repair, Section XL of the ASME Code and the National B By signing this certificate, neither the undersigner concerning the work described in this report. Fur any manner for any personal injury, property dan Date $10-14$ , 2002 Signed	modification or replacement has been completed Board Inspection Code "NR" rules. Ed nor my employer makes any warranty, express thermore, neither the undersigned nor my employ nage or loss of any kind arising from or connected mage or loss of any kind arising from or connected commissions <b>JB 85C 3 N T</b> (National Board (i	in accordance with ed or implied, yer shall be liable in d with this inspection.

REPORT NO. P0059-009

1821-335

NPP No. 9308 R				e ASME Co			NQI-1741
. Owner:	FIRS	TENERGY CORP.				Date 04/30/03	
	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2
Plant:	Perry Nuc	lear Power Plant (F	NPP)			Unit <u>1</u>	
	10 Center F	Road, Perry, Ohio 4	4081			01-016128-000, (Repair Org. P.O. N	
Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Corr	pany PNPP	. •	Type Code Sym	ool Stamp
	<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No Expiration Date	
Identificatio	n of System: <u>B21</u>	Nuclear Boiler Sys	stem	<u> </u>		• • •	
(a) Applicat	e Construction C	ode: <u>ASME Sec III</u> NAME/SECT	. Subsectio			,19 <u>74</u> Editi	on
<u>Winner</u>	19 <u>75</u>	Addenda Code		-	& 272		
		or repairs, modifica	-	•	Edi	ition Addenda	N/A Code Case
(c) ASME (	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	<u>1989</u> Ed	ition Addenda	N/A Code Cas
(d) Applicat	ble Edition of Sect	ion XI Utilized for F	Repairs, Mo	odification,	or Replac	ements:	
	<u>N/A</u> 19 <u>N/A</u>	Cod	e Case(s)				
		IRSTENERGY Nu Repaired, Modified					
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
Component	Manufacturer	Serial No.	Board No.	(D.	Built	Replacement, or Modification	Code Stamped
Support	E-Systems	1B21	N/A	1B21- G7071	1978	replacement	Yes
<u></u>							
				Ì			
						[	
	of Work: Replace	d original Snubber	Serial Nur	nber 138 or	Support	1B21- G0006-S10	)1C with
Description	of Work. Replaced						

g	. Remarks:
-	
	IO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING FFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
~	lote: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of t report is included on each sheet, and (3) each sheet is numbered and the number of sheets is record the front of this form.
	CERTIFICATE OF COMPLIANCE
	I, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report a correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS 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 05         Date April 30       20 03       Signed       FENOC-PNPP       QE         (name of repair organization)       (authorized representative)       (litle)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, <u>Thomas G. Laps</u> , holding a valid commission issued by The National Board of Boiler
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	inspected the repair, modification or replacement described in this report on May 1 20 03 and state that
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance
	Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
	a second of the norme code and the reasonal board inspection code rary rules.
	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
	· · · · · · · · · · · · · · · · · · ·
	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,

( CORRECTED	COPY)
-------------	-------

1821-335 2082

FORM NF-1 MANUFACTURERS' DATA REPORT FOR COMPONENT SUPPORTS\* As Required by the Provisions of the ASME Code Rules, Section III, Division 1

	orGener	al_Electric_	Company, San J (Name and eddress of p	ose, Cali	fornia		
3. Location of Ins			eam, North Perr				
4. Identification							
(a)	. (р)	(c)	(d)	. le)	(f)	(g)	(h)
Component	Canadian	Applicable	Stress Report	Type of			
Support I.D. No.	Registration No.	Drawings with Last Rev. & Date	or Load Capa- city Data Sheet	Component Support	Class	Nat'l Board No.	Year Built
(1) 107	<u>N/A 15</u>	2607(H)	LCD152000-602	Linear	_]	None	
(2) 106							
(3) <u>109</u>							11
(4) <u>108</u>			¥ ·	41 		11 	
(5) <u>110</u>		00077F	- # 				
(6) <u>057</u>	<u> </u>	2207(E)					
(7) <u>116</u>				N			
(8) <u>002</u> (9) <u>160</u>			N			•••	
(10) <u>133</u>					- 11	86	11
	· · · · · · · · · · · · · · · · · · ·				<u> </u>		
5. Remarks:	Tuning Em	or, added -1.	APR 29 198	2 0	20	V12015	67
			7			11.1-1-	
		CERTIF	CATE OF COMPLIA	NCE			
of the ASME Code Code Case No. <u>16</u>	for Nuclear Powe	e in this report are of er Plant Components, -1,,1706,,N242-	•••	nponents suppo		-	construction or 1975_, Date)
of the ASME Code Code Case No. <u>16</u>	for Nuclear Powe	e in this report are of er Plant Components, -1,,1706,,N242-	orrect and that these cor Section III, Division 1, ], *	nponents suppo Edition197		~	
of the ASME Code Code Case No. <u>16</u> Date <u>AUGUSt 3</u>	for Nuclear Powe 44-4,1682- 1981 Signe	e in this report are of er Plant Components, -1, 1706, N242- d- <u>E-Systems, 1</u> (Manu 1356	prrect and that these cor Section III, Division 1, ] .* <u>ncMontek_Div</u> Facturer)	nponents suppo EditionJ byJ ND	4, Add Lynch	~	
of the ASME Code Code Case No. <u>16</u>	for Nuclear Powe 44-4,1682- 1981 Signe	e in this report are of ar Plant Components, -1, 1706, N242- d- <u>E-Systems, 1</u> (Manu tion No. <u>1356</u>	orrect and that these cor Section III, Division 1, ], *	nponents suppo EditionJ byJ ND	4, Add Lynch	Gund	
of the ASME Code Code Case No. <u>16</u> Dat <u>e AUGUST 3</u> Our ASME Certific	for Nuclear Pown 44-4.1682- 1981 Signe ate of Authorizat 1 March	e in this report are of ar Plant Components, -1, 1706, N242- d- <u>E-Systems, 1</u> (Manu tion No. <u>1356</u>	prrect and that these cor Section III, Division 1, ] .* <u>ncMontek_Div</u> Facturer)	nponents suppo EditionJ byJ ND	24, Add 6 Lynch T	Gund	51 1975., Datel
of the ASME Code Code Case No. <u>16</u> Dat <u>e AUGUST 3</u> Our ASME Certific	for Nuclear Pown 44-4.1682- 1981 Signe ate of Authorizat 1 March	le in this report are of er Plant Components, -1,1706,N242- d- <u>E-Systems, I</u> (Manu tion No. 1356 1982	prrect and that these cor Section III, Division 1, ] .* <u>ncMontek_Div</u> facturer) to use the	nponents suppo Edition_197 byJ.	24, Add 6 Lynch T	Gund	
of the ASME Code Code Case No. <u>16</u> Data <u>AUGUST 3</u> Our ASME Certific	for Nuclear Powe 44-4,1682- 1981 Signe ate of Authorizat 1 March (Date)	le in this report are co er Plant Components, -1, 1706, N242- d-E-Systems I (Manu tion No. 1356 1982 CERT	IFICATION OF DES	nponents suppo Edition_197 byJ. NP	Lynch T	TI	975., Date) GOAA 6-24
of the ASME Code Code Case No. <u>16</u> Dat <u>e AUGUST 3</u> Our ASME Certific	for Nuclear Pow 44-4,1682- 1981 Signe ate of Authorizat 1 March (Date)	le in this report are co er Plant Components, -1, 1706, N242- d-E-Systems I (Manu tion No. 1356 1982 CERT	prrect and that these cor Section III, Division 1, ] .* <u>ncMontek_Div</u> facturer) to use the	nponents suppo Edition_197 byJ. NP	Lynch T	TI	975., Date) GOAA 6-24
of the ASME Code Code Case No. <u>16</u> Date <u>AUGUSt_3</u> Our ASME Certific Symbol expires Design Information	for Nuclear Powe 44-4 1682- 1981 Signe ate of Authorizat 1 March (Dere)	le in this report are of er Plant Components, -1, 1706, N242- d_E=Systems I (Manu- tion No. 1356 1982 CERT E-Systems, I a Sheets on File at:	IFICATION OF DES	nponents suppo Edition_197 by	4, Add Lynch T (NP	ke City, U	975., Date) GOAA 6-24
of the ASME Code Code Case No. <u>16</u> Date <u>AUGUSt 3</u> Our ASME Certific Symbol expires Design Information Stress Report or Lo	for Nuclear Powe 44-4 1682- 1981 Signe ate of Authorizat 1 March (Dere)	le in this report are of er Plant Components, -1, 1706, N242- d_E=Systems I (Manu- tion No. 1356 1982 CERT E-Systems, I a Sheets on File at:	Direct and that these con Section III, Division 1, J.* <u>mc_Montek_Div</u> <u>recturer</u> ) to use the <b>IFICATION OF DES</b> mc., Montek Div <u>mc., Montek Div</u>	nponents suppo Edition_197 by	4, Add Lynch T (NP	ke City, U	975., Date) GOAA 6-24
of the ASME Code Code Case No. <u>16</u> Date <u>AUGUSt</u> 3 Our ASME Certific Symbol expires Design Information Stress Report or Lo Design Specification	for Nuclear Powe 44-4 1682- 1981 Signe ate of Authorizat 1 March (Dere)	tion No. 1356 1982 CERT E-Systems, I CERT E-Systems, I sheets on File at: E-Systems, I E-Systems, I	Direct and that these con Section III, Division 1, J.* <u>mc_Montek_Div</u> <u>recturer</u> ) to use the <b>IFICATION OF DES</b> mc., Montek Div <u>mc., Montek Div</u>	nponents suppor Edition_197 by	4, Add Lynch T (NP	ke City, U	975., Date) GOAA 6-24

\*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in., (2) information in items 1, 2, 4c, 4g 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 (E00075) is available from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

• • •

2-N

### FORM NF-1 (Back)

•	CERTIFICATE OF SHOP INSPECTION
	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State o Utah
	have inspected the component supports described in this Manufacturers' Data Report on August 3
	hat to the best of my knowledge and belief the Manufacturer has constructed these component supports in accordand de for Nuclear Power Plant Components.
By signing this cer	tificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the componer
supports Jescribed	in this Manufacturers' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in an
manner for any per	sonal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 8/3/81	
Signed C.	L. Mockelman Commissions
	(Nat'l Bd., State, Prov., and No.)
	CERTIFICATION OF FIELD INSPECTION
	CERTIFICATION OF FIELD INSPECTION holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of
Province of	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of
Province of	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of
Province of and state that the inspected by me an	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of
Province of and state that the inspected by me an	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of
Province of and state that the inspected by me an ance with the ASM	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of
Province of and state that the inspected by me an ance with the ASM By signing this cert	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of 
Province of and state that the inspected by me an ance with the ASMI By signing this cert supports described	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of
Province of and state that the inspected by me an ance with the ASMI By signing this cert supports described	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of
Province of and state that the inspected by me an ance with the ASMI By signing this cert supports described	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of
Province of and state that the inspected by me an ance with the ASMI By signing this cert supports described	holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of

;

8-24-02 A

PAGE NO. 2-0

1	B2	1.	3	3	7
	مدمد	<b>A</b> -	~	~	

	NIS-2	/NR-1 OWNE	R'S REPOR					ENTS	
P	NPP No. 9308 F		duired by the Prov					NQI-1741	
1	. Owner:	FIRS	ENERGY CORP.				Date <u>6-20-03</u>		
			Road, Perry, Ohio	44081			Sheet 1 of	2	
2	. Plant:	Perry Nucl	ear Power Plant (F	PNPP)			Unit <u>ONE</u>		
	-	10 Center F	Road, Perry, Ohio	14081			<u>WO 01-17335-00</u>	<u>)-,001 R/0</u>	
-							(Repair Org. P.O. N	lo., etc.)	
3	. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Corr	pany PNPP		Type Code Symb	ool Stamp <u>NF</u>	<u>२</u>
		<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	1		Authorization No.	33	_
							Expiration Date §	9-26-05	_
4	. Identificatio	n of System: <u>1B2</u>	1 NUCLEAR BOIL	ER PROCI	ESS INSTE			<u> </u>	
5	. (a) Applicat	ble Construction Co	ode: <u>ASME SECTI</u> NAME/SECT			· · ·	,19 <u>74</u> Editio	on	
	WINTE	<u>R</u> 19 <u>75</u>			•	5.N3.N41	3.N71-9.N71-11.16	344-5	
	<u>1728, N</u>					<u>, , , , , , , , , , , , , , , , , , , </u>			
		uction Code used for	or repairs, modifica	ations, or r	eplacement	s: <u>1974</u>	WINTER 75	•	
				•	•		tion Addenda	Code Case(s)	•
	(C) ASME	Code Section XI ap	oplicable for Inserv	ice Inspect		<u>1989</u> Edi	tion Addenda	<u>N/A</u> Code Case(s)	)
	(d) Applicat	ble Edition of Secti	on XI Utilized for F	Repairs, Mo	odification,	or Replac	ements:		
	19 <u>89   </u>	EDITION		ddenda e Case(s)	<u>N/A</u>	-			
	(e) Design	Responsibilities <u>F</u>			PERATING	COMPA	NY PNPP		
6	. Identification	n of Components F	Repaired, Modified	, or Replac	ement Cor	nponents			
	Name of	Name of	Manufacturer	Nat. Board	Other	Year	Repair, Replacement,	ASME Code	
	Component	Manufacturer	Serial No.	No.	ID.	Built	or Modification	Stamped	
	PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	N/A	1985	REPLACEMENT	YES	
					-	· .			
	· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·		
					·				
	•			L	l			<u> </u>	
7. U	Description	of Work: <u>REMOV</u> <u>N_1-5/8-8 INLET S</u>	ED VALVE S/N 16 STUDS HEAT COI	0871 AND	INSTALLE	D VALVE	S/N 160848 @ 1E 8 NUTS HEAT CO	DE D284.	
-									
8.	Test Condu	cted: Hydrostatic		lic- 🗌 N	Nominal Op	erating P	ressure- 🛛 Oth	er- 🖸	
	Pressure 10	025psi Te	st Temperature 1	30 <u> </u>	legrees F	Code	Case(s) <u>N/A</u>		
		<b></b>							-

.

· · · ·

PN	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PP No. 9308 Rev. 9/11/00 NQI-1741
).	Remarks:
10 :F	NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
lo	te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded or the front of this form.
ſ	CERTIFICATE OF COMPLIANCE
	I, <u>JOHN W. MESSENGER</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
	National Board Certificate of Authorization No33 to use the "NR stamp expires SEPT. 26., 20 05
	Date JUNE 20, 20 03 Signed FENOC-PNPP QE (authorized representative) (title)
	I, THOMAS G. LAPS, holding a valid commission issued by The National Board of Boiler and
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	and employed by <u>H.S.B. CT.</u> of <u>HARTFORD</u> CONN. have
	inspected the repair, modification or replacement described in this report on <u>Aug 4</u> , 20 <u>03</u> <sup>3</sup> 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
t.	any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
	Date <u>Au.6.4</u> , 20 03 Signed <u>Thomas</u> <u>Jaco</u> Commissions <u>NB 9330</u> <u>N F A</u> <u>Comm</u> (inspector) (National Board (include endorsements), and jurisdiction, and no.)

----

:

1821-337 page 2 of 2

\* Corrected report

Manufactured by	G. Dikkers & Co. NV. Hengeld	(0) The Netherlands					
2. Manufactured for .	(Name and Address of N Certificate General Electric, San Jose,	California					
	Name and Address of Purchaser of	Owner)					
I. Location of Installat	ion ICTY I NOT CHITETTY UTTO						
	G 471-6/125.04.03 rev. 6	34 1978					
(CRN)	G471 (Drewing No.)	(Nat'l. Brd. No.). (Year Buik) Noc. 160848					
(Mo	del Nc. Series No.)/Relief						
Orifice Size	rty, Sefery Relief; Pilot; Power Actuated 8"	Outlet Size					
	inch	inch inch					
Set Pressure (PSIG	1165 Rayad T	585					
Stamped Capacity		Overpressure Blowdown (PSIG) 43.0					
orampor capacity	Sat. Steam	975					
Hydrostatic Test (PS	SIG) Inlet 2350	Outlet					
Pressure Retaining F		•					
	Serial No. or Identification	Material Specification Incl. Type or Grade					
Body	05.48.7 s.n. 2	SA 352 LCB					
Bonnet or Yoke	04.14.8 s.n. 1	SA 352 LCB					
Support Rods							
Nozzie	AEU 032	SA 350 LF2					
Disc	61.03.8 4A	SA 351 CF3A					
Spring Washers	21.16.53 s.n. 19	45 Cr Mo V 67					
Adjusting Screw	AFU 056 AFU 009	SA 182 F 316					
Spindle	<u></u>	A 564-74 type 630 cond. H1100					
Spring							
Bolting	AJZ/AJR/AKA/AJJ/ALR/AUY/	SA 193-B7/SA 194-7/SA 194-2H					
ONIN PASSA	AMR/AJM/AJL	SA 351 CF3A					
Cover	<u>57.06.8 s.n. 1</u>	SA 351 CF8M					
00101	<u>58.04.8 s.n. 1</u>	SA 105					
Vent, Pipe	AFW 002						
Flanges	AFV 048 AFV 061	SA-105					

<sup>3</sup> 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.

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

#### FORM NV-1 (Back)

t

 $\langle \rangle$ 

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., <u>1974</u> Edition, Addenda <u>76</u> . Code Case No. <u>N.A</u> Date <u>A1. 06-25</u> Signed <u>GDikkers &amp; Co. NV</u> by <u>Fbbbc</u> (N Certificate Holder) Our ASME Certificate of Authorization No <u>1806</u> to use the <u>NV</u> (Nv) symbol expires <u>tst. July 1980</u> (Date)
CERTIFICATION OF DESIGN
Design information on file at General Electric and Perry 11
Stress analysis report (Class 1 only) on file at General Electric and Perry 11

 Design specifications certified by'
 Boyd P. Brooks

 PE State
 California

 Reg. No.
 13655

 Stress report certified by'
 Robert L. Weiss

 PE State
 California/Illinois

 Reg. No.
 M 14921/62-25749

1 Signature not required—list name only.

### CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province ofOhio. PH and employed byKemper Ins.
ofLong_Grove_III have inspected the pump, or valve, described in this Data Report on
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 NB 4805
(Inspector) (Nat'l. Bd., State Prov. and No.)

	NIS-2	/NR-1 OWNE						ENTS
P	NPP No. 9308 F		quired by the Provi	sions of th				NQI-1741
1	. Owner:	FIRST	ENERGY CORP.			• •	Date <u>6-20-03</u>	
	_		Road, Perry, Ohio	44081			Sheet 1 of	2
2	. Plant:	Perry Nucl	ear Power Plant (F	NPP)			Unit <u>ONE</u>	
		10 Center F	Road, Perry, Ohio 4	4081			WO 01-17337-0 (Repair Org. P.O. I	
3	. Work Perfo	rmed By: <u>FIRSTE</u>					Type Code Sym	• —
		<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No	
		·					Expiration Date	9-20-05
4	. Identificatio	n of System: <u>1B2</u>	I NUCLEAR BOILI	ER PROC	ESS INSTR	UMENTA		
5	. (a) Applicat	ele Construction Co	de: <u>ASME SECTI</u> NAME/SECT				,19 <u>74</u> Editi	ion
	WINTE	<u>R 19_75_</u> /				5.N3.N41	3,N71-9,N71-11,1	644-5
	1728, N							
	(b) Constru	iction Code used fo	or repairs, modifica	itions, or r	eplacement			
	(c) ASME (	Code Section XI ap	nlicable for Inservi	ice Inspec	tion:	1989	tion Addenda N/A	Code Case(s) N/A
				-		Edi	tion Addenda	Code Case(s)
		ble Edition of Secti		-		or Replac	ements:	
			Code	ddenda e Case(s)	<u>N/A</u>	•		
•		Responsibilities <u>F</u>		_			NY PNPP	
0		n of Components F	<u> </u>	Nat.	1		Repair,	ASME
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board	Other ID.	Year . Built	Replacement, or Modification	Code Stamped
	PIPING	GENERAL	1B21	No. 64084	N/A	1985	REPLACEMENT	YES
	SYSTEM	ELECTRIC		01001		1000		
				· ·				
	<u> </u>				<u></u>			
7	Description	of Work: <u>REMOVE</u>	ED VALVE S/N 16(		INSTALLE		S/N 160886 @ 11	B21F041FD
U	<u>SING (2) NEV</u>	<u>N 1-5/8-8 INLET S</u>	STUDS HEAT COL	DE Z4K ,A	ND (12) NE	W 1-5/8-1	B NUTS (10) HEA	T CODE
D	284, ANU (2)	HEAT CODE TCD	l		· · · · ·			
8.	Test Conduc	cted: Hydrostatic	- D Pneumat	ic- 🗌 🛛	Nominal On	erating P	ressure- 🛛 Oth	ner- []
	Pressure 10	·	st Temperature 13		legrees F	•	Case(s) <u>N/A</u>	···· ••••
		· · · ·	• • • • •					

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>JOHN W. MESSENGER</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires <u>SEPT. 26</u> , 20 05
Date JUNE 20, 20 03 Signed FENOC-PNPP Memory QE (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I,
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by <u>H.S.B. Ct.</u> of <u>HARTFORD</u> COUN. have
inspected the repair, modification or replacement described in this report on <u>Jun F30</u> , 2003 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 JUNE 30, 20 03 Signed Thomas Jonge Commissions NB9330 NIA COMM (inspector) (Inspector) (Inspector

REPORT	NO.	P00	59-	009
--------	-----	-----	-----	-----

Menufectured by _	G. Dikkers & Co. NV, Heng	elo (0) The Netherlands	21-338 e
-	General Electric, San Jos	cate Holdes)	
Manufactured for	Name and Address of Purchar	ar or Owner)	· •
Location of Installation		rry Ohlo	
	G 471-6/125.04.03 4 eV. 8	146 1979	
(CRN)	G471 (Drawing No.)	(Nat'l. Brd. No.) (Year Built)	
· Valve		ing Nos. 160886 IN Certificate Holder's Serial I	ia.)
	el No., Seier Hol/Relief		
Satal Orifice Size		8" (Flange) 10"	
	inch Nominal Inlet Size	inch Outlet Size	ch
Set Pressure (PSIG)	- •	d Temperature	1
Stamped Capacity _	<u></u>	_% Qverpressure Blowdown (PSIG) _107 975	<b>,</b> 14
Hydrostatic Test (PS		Oction	
Pressure Retaining Pl		(Applicable to valves for closed sys	ema oniv)
•	Seriet No. or	Material Specification	. •
. ••	Identification	Incl. Type or Grade	
Body	12.27,8 s/n 1	SA 352 LCB *	
Bonnet or Yoke	08.47.8 s/n 3	SA 352 LCB	
Support Rods			
Nozzie	AJW 135	SA 350 LF2	<u>_</u>
Diec -	<u>51.09.9 s/n 2A.</u>	SA 351 CF3A 45 Cr Mo V 67	
Spring Washers	26.30.95 s/n 128. ASB 108/CBA 016	SA 182 F 316	
Adjusting Screw	APG 015	A 564-74 type 630 cond.	<u>H1100</u>
Spindle			111100
Spring Bolting		SA 193-B7/SA 194-7/SA 1	94-2H
	ANY/ANZ/AVS/AJS/APA/APB/		
-		••• ••	
	CAL/AJK/AUY	SA 351 CF3A	
Cover	_61.4.085/n 2	SA 351 CF8M	
X000000000			

Max. outside length valve : 1645 mm (64.77)

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

0/77)

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

A Representation of the second second

#10 T.S.

FORM NV-1 (Back)	
CERTIFICATE OF COMPLIANCE	]
We certify that the statements made in this report are correct and that this value conforms to the in of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., <u>1974</u> Edition, Add Code Case No. <u>N. A.</u> Date <u>A1. 07.03</u> Signed <u>G. Dikkers &amp; Co NV</u> by	lenda <u>Sum. 76</u> (Oste)
(N Cardificate Holder)	use the <u>NV</u>

( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	ERTIFICAT	ION OF DESIG	IN		
Design information on file at	General	Electric an	nd Perry	I+11 spares	
Stress analysis report (Class 1 only) on file at	General	Electric an	nd Perry	I+II' spares	 
					 · ·
Design specifications certified by PE State Callfornia	Boyd P.	Brooks		· · · · · · · · · · · · · · · · · · ·	· · · ·
PE State California	•	Reg. No.	13655		
Stress report certified By	Robert	Reg. No L. Weiss	2 <b>2 - 21</b> -	· ·	 1
Stress report centified by PE State Californja/Illinois		Reg. No	N 1492	1/62-25749	 
<sup>1</sup> Signature not required list name only.					<b>-</b>

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Ontario (Canada)</u> and employed by <u>Royal Indemnety Co</u>. of <u>New York</u> have inspected the pump, or valve, described in this Data Report on <u>26 September</u>, 19 <u>79</u> 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 injuly or property damage or a loss of any kind arising from or connected with this Inspection.

Juh Date . 19 Signed . N. B. 6653 mmissions (Inspector)

1 <b>B</b> 21	-339
---------------	------

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 6-20-03								
10 Center Road, Perry, Ohio 44081 Sheet 1 of 2								
2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE								
<u>10 Center Road, Perry, Ohio 44081</u> ( <i>Repair Org. P.O. No., etc.</i> )								
3. Work Performed By: <u>FIRSTENERGY Nuclear Operating Company PNPP</u> Type Code Symbol Stamp <u>NR</u>								
10 Center Road, Perry, Ohio 44081 Authorization No	· —							
Expiration Date <u>9-26-05</u>	;							
4. Identification of System: 1B21 NUCLEAR BOILER PROCESS INSTRUMENTATION								
5. (a) Applicable Construction Code: ASME SECTION III NB								
WINTER 19 75 Addenda Code Case(s) <u>N224-1,N225,N3,N413,N71-9,N71-11,1644-5</u>								
<u>1728, N272.</u>								
(b) Construction Code used for repairs, modifications, or replacements: <u>1974</u> Edition Addenda Code C	Case(s)							
(c) ASME Code Section XI applicable for Inservice Inspection: <u>1989</u> <u>N/A</u> Edition Addenda Code C	Case(s)							
(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:								
19 <u>89. EDITION 19 N/A Addenda N/A</u>								
Code Case(s) (e) Design Responsibilities <u>FIRSTENERGY NUCLEAR OPERATING COMPANY PNPP</u>								
6. Identification of Components Repaired, Modified, or Replacement Components								
Name of ComponentName of ManufacturerManufacturer Serial No.Nat. Board No.Other ID.Year BuiltRepair, Replacement, or ModificationASN 	le							
PIPING GENERAL 1B21 64084 N/A 1985 REPLACEMENT YES SYSTEM ELECTRIC								
	{							
	_							
7. Description of Work: <u>REMOVED VALVE S/N 160851 AND INSTALLED VALVE S/N 160869 @ 1B21F04</u> USING (12) NEW 1-5/8-8 NUTS HEAT CODE D284.	<u>1F</u>							
8. Test Conducted: Hydrostatic- 🗍 Pneumatic- 🗍 Nominal Operating Pressure- 🛛 Other- 🗌								
Pressure 1025 psi Test Temperature 130 degrees F Code Case(s) N/A								

Г

·

9.	Remarks:
	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEI FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	ote: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 or report is included on each sheet, and (3) each sheet is numbered and the number of sheets is report 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 correct and the repair, modification or replacement of the items described above conforms to Section XI of the code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, <u>THOMAS</u> <u>G</u> . <u>LAPS</u> , holding a valid commission issued by The National Board of Bo Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>H.S.B.CT</u> of <u>HARTFORD</u> , <u>CONN</u> inspected the repair, modification or replacement described in this report on <u>JUNE 30</u> , 2003 and state th the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance Section XI of the ASME Code and the National Board Inspection Code "NR" rules. 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 lia any manner for any personal injury, property damage or loss of any kind arising from or connected with this ins Date <u>JUNE 30</u> , 20 03 Signed <u>Thomos</u> <u>HOM</u> Commissions <u>NB9330 NTA</u> (inspector)

	, ü.	Differs & Co. t	N.V. (0) The Notherlands				
Manufactured fo	r Ge	neral Electrides	Certificate Holder) In June: Calif.				
Location of Insta	Hatuun I'c	Name and Address of Po					
Cocation of mata		(Name and Add) 1-6/125.04.03	nth Perny Ohto Address rev. 00 67				
(CRN)	G417	(Drawing No.)	(Nat'l. Brd. No.) (Year Built)				
Valve	G121 Model No , Series No (	) 1de	entifying Nos. 160869 IN Certificate Holder's Seriat No.)				
Type	safety/relie	: <b>f</b>					
Orifice Size	Safety, Safety Rollof, P 4.841 inch	Nominal Inlet Size	8" Outlet Size 10"				
Set Pressure (P	SIG) 1165	• • •	Rated Temperature 585F				
Stamped Capaci	ty 905732	ibs/hr @	3 % Overpressure Blowdown (PSIG) 33,8				
Hydrostatic Test	Set Steam (PSIG) Inter 23	50	Outlet 975				
Pressure Rotainie		,	(Applicable to valves for closed systems only)				
		Serial No. or Identification	Material Specification Incl. Type or Grade				
Body	13.21.8	SN 4	• SA 352 LGB*				
Bonnet or Yoke	05.12.8	SN 3	SA 352 LGB				
Sopport Roos+			7 				
Nozzie	AJW 025		<u>SA 350 LF2</u>				
Disc	54.30.8	– 8A	SA 351 CF3A				
Spring Washers	26.30.95	- 69	45 Cr Ho V 67				
Adjusting Screw	AFU 031	AFU 020	SA 182 F 316				
Spindle	AJE 029		A 564-74 type 630 cond. HI 100				
sphha i		•	a construction of the second				
o print g	ANY/AYE/	AVS/ALR/AWZ	SA 193-B7/SA 194-7/SA 194-2H				
-	AM/D / A 14/ /	'AJI./AJJ	and the second				
Bolting Other Pieces	AMIK/ AJM/		SA 351 CF3A				
Bolting Other Pieces	59.36.8	SN 2					
Bolting		SN 2 SN 6	SA 351 CF8M				
Bolting Other Pieces Litter	59.36.8						

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 6-1/2" × 11", (2) information In items 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(10/77)

•

This form (EU0042) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

. . 1

•

•	FURM NV-1 (Back)	206208
	CERTIFICATE OF COMPLIANCE	
of the ASME Code for Nuclear Power (* Code Case Ng	is the report are correct and that this valve confident from the confident of the confidence of the transmission of the confidence of the	Edition, Addenda SUB
319180	IN Certificate Huldret	Willens
Our ASMI Certificate of Authorizat	ion No	to use the <u>NV</u>
symbol expres 151 July, 1980		,
	CERTIFICATION OF DESIGN	
Design information on file at Stress analysis report (Class 1 only) on	General Electric and Perry II Me a General Electric and Perry I	
Design specifications certified by PE State <u>Californiti</u>	Reg No. 13655	
Stress report certified by Robert	L. Weiss	
	Hey No	-25749
e Siale - Carrigenta/IIIIint		

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohiu .... and employed by Kemper Ins. of Lying Grove 1)]. 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

mariner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date 3 - 12 19 79 Signed (Inspector)

Commissions

NH 4456 INIT' Hd., State Prov. and No 1

 $\bigcirc$ 

• •

1	<b>B2</b>	1	-340

PNPP No. 9308	Rev. 9/11/00			e ASME Co			NQI-1741
1. Owner:	er: FIRSTENERGY CORP.						<u> </u>
-	10 Center Road, Perry, Ohio 44081					Sheet <u>1</u> of	2
2. Plant:	Perry Nuc	lear Power Plant (F	PNPP)			Unit <u>ONE</u>	
-	10 Center F	Road, Perry, Ohio	44081		1	WO 01-17341-00 (Repair Org. P.O. N	
3. Work Perf	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	pany PNPP		Type Code Symb	ol Stamp <u>I</u>
		enter Road, Perry,				Authorization No.	33
						Expiration Date	9-26-05
4. Identificati	on of System: <u>1B2</u>	1 NUCLEAR BOIL	ER PROC	ESS INSTR	UMENTA		
	ble Construction Co	de: ASME SECT		- : *		,19 <u>74</u> Editio	on
WINT	ER 19 <u>75</u>			۰.	5.N3.N41	3. <u>N71-9,N71-11,16</u>	44-5
1728.			• •				
(b) Const	ruction Code used for			· .			
	Codo Section VI or		i l			tion Addenda	Code Case N/A
	Code Section XI ap	plicable for inserv	ice inspec	uon:	<u>1989</u> Edi	tion Addenda	Code Case
(d) Applic	able Edition of Secti	on XI Utilized for F	Repairs, M	odification, o	or Replac	ements:	
19 <u>89</u>	EDITION		ddenda e Case(s)	<u>N/A</u>	•		
(e) Desigr	Responsibilities <u>F</u>	IRSTENERGY NU	ICLEAR O	PERATING	COMPA	NY PNPP	
6. Identification	on of Components F	Repaired, Modified	, or Replac	ement Con	ponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1821	64084	N/A	1985	REPLACEMENT	YES
		· · · ·		· · · · ·			
				1			
			ļ		· · ·		
7. Description	of Work: <u>REMOVE</u>	ED VALVE S/N 16	0888 AND	INSTALLE		<u>S/N 160889 @ 1E</u>	21F041K
<u>JSING (1) NE</u>	W 1-5/8-8 INLET S	ED VALVE S/N 16 STUDS HEAT CO	0888 AND DE Z4K "A	INSTALLE	D VALVE W 1-5/8-	S/N 160889 @ 1E 8 NUTS HEAT CO	21F041K DE (2)
<u>JSING (1) NE</u> [CD AND (10	W 1-5/8-8 INLET S	STUDS HEAT CO	DE Z4K ,A	INSTALLEI ND (12) NE	<u>W 1-5/8-</u>	S/N 160889 @ 1E B NUTS HEAT CO ressure- 🔯 Oth	DE (2)

. • · ·

0	Remarks:
э.	Remarks:
_	
	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING I FFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
	CONCENTER OF THE ACTION OF THE
٧	ote: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded
	the front of this form.
	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 to use the "NR stamp expires SEPT. 26_, 20 05
	Date JUNE 20, 20 03 Signed FENOC-PNPP QE (itile)
1	
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I. Thomas G. LARS, holding a valid commission issued by The National Board of Boiler and
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	inspected the repair, modification or replacement described in this report on June 30 20 03 and state that to
	inspected the repair, modification or replacement described in this report on <u>June 39</u> 20 <u>53</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
	inspected the repair, modification or replacement described in this report on June 30 20 03 and state that to
	inspected the repair, modification or replacement described in this report on <u>June 39</u> 20 <u>53</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
	Inspected the repair, modification or replacement described in this report on <u>JUNE30</u> 20 <u>03</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
	Inspected the repair, modification or replacement described in this report on <u>JUNE 30</u> 20 <u>03</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
	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.

REPORT NO. P0059-009

× consected sepure

1. Manufectured by	G. Dikkers & Co. NV. Hen	gelo (0) The Netherlands
	General Electric, San Jo	ficate Holders
Manufactured for		
N. Location of Installation	Name and Address of Purch Perry [+] spares North	<u>Perry 0h1o</u> 142 1979
4	G 471-6/125.04.03 4 60.0	
(CRN)	G471 (Drawing No.)	(Nat'l. Brd. No.) (Year Bulh) Ning Nos 160889
5. Valve(Model	No., Serier No./Relief	ving Nos. (N Certificate Holder's Serial No.)
Orifice Size	Salety Relief; Pilot; Power Actusted	8" (Flanges) Outlet Size
	inch	inch inch
·	1165	
5. Set Pressure (PSIG) .	g*	ted Temperature F
Stemped Capacity		075
Hydrostatic Test (PSIG		Outlet
. Pressure Retaining Ple		
	- Serial No. or Identification	Material Specification Incl. Type or Grade
D. 4.	03.21.8.s/n 2	SA 352 LCB
Body Bonnet or Yoke	06.04.8 s/n 4	SA 352 LCB
Support Rode		
Nozzie	AJW 044	SA 350 LF2
Disc	54.07.9 s/n 2A	SA-351 CF3A
Spring Weshers	26.30.95. s/n 141	45 Cr Mo V 67
Adjusting Screw	CBA 058/ASB 040	SA 182 F 316
Spindle	APG 041	A 564-74 type 630 cond. H1100
Spring		UC_KOT A375_KDT A3754 TO7_90
Bolting	ANY/ANZ/AVS/AJS/APA/APB/A CAL/ALR/AUY	NZ <u>SA 193-B7/SA 194-7/SA 194-2H</u>
on the first	58.35.8 s/n 2	SA 351 CF3A
Cover	65.17.8 s/n 2	SA 351 CF8M
Vent. Pipe	AKE 149	SA 105
Flanges	ASA 0197ASA 145	SA 105
	diam. valve body: 480 mm (1)	
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" × 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.

0/77)

.

.

.

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

.

÷.,

and the second we

A THAT IS A REAL PROPERTY AND A

# FORM NV-1 (Back)

CERTIFICATE OF COMP	PLIANCE	
We certify that the statements made in this report are correct and that of the ASME Code for Nuclear Power Plant Components, Section III, Div. Code Case No. <u>N.A.</u> Date <u>81-07.03</u> Signed <u>G. Dikkers &amp; Co NV</u>	st this value conforms to the rules r. 1., <u>1974</u> Edition, Addend	of construction SUM. 76 (Oate)
(N Certificate Holder) Our ASME Certificate of Authorization No. symbol expires 1st. July 1980 (Date)	180610 USB	the <u>NV</u> (NV)

C	ERTIFICAT	ION OF DE	SIGN				
Design information on file at	General	Electric	and Perry	1+11	spares		•.
Stress analysis report (Class 1 only) on file at	General	Electric	and Perry	1+11	spares	<u> </u>	
Design specifications certified by	Boyd P.	Brooks			· · · · · · · · ·		
Design specifications certified by PE State California		Reg. No L. Weiss	13655				
California/Illinois	Robert	L. Weiss			<del></del>		· · ·
c State California/Illinois	·	Reg. No	M 1492	1/42-	25749		<del>_</del>
<sup>1</sup> Signature not required—list name only.				- <b>1</b> 4-41		-	

CERTIFICATE OF SHOP INSPECTION

I. the undersigned, holding a valid commission issued by the National Board of Boller and Pressura Vessel Inspectors and the State or Province of <u>Ontario (Canada)</u> and employed by <u>Royal Indemnity</u> Indemnity New York have inspected the pump, or valve, described in this Data Report on <u>25 September</u>, 19 <u>79</u> 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 an inpersonal interv or property damage or a loss of any kind arising from or, connected with this Inspection.

Real Provide Links of the State of the State

Date Villey		• •	•
Signed	19 ANDCO	missions N. B. 6653	• • • *
(Inspector)	KATO	(Nat'l. Bd., State Proy	and No.)

1B21-3	4	l
--------	---	---

PNPP No. 9308 F		equired by the Prov	risions of th	ne ASME C	ode Secti	on XI	
	Rev. 9/11/00		·	· · · ·	· · · · · ·	,,	NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date <u>6-20-03</u>	
	10 Center	Road, Perry, Ohic	44081			Sheet <u>1</u> of	2
2. Plant: _	Perry Nuc	lear Power Plant (I	PNPP)			Unit <u>ONE</u>	
	10 Center	Road, Perry, Ohio	44081			WO 01-17345-00 (Repair Org. P.O. N	
						(Repair Org. F.O. F	0., 8(0.)
3. Work Perfo	ormed By: <u>FIRSTE</u>	ENERGY Nuclear Op	erating Cor	npany PNPF	2	Type Code Symi	bol Stamp <u>N</u>
	<u>10 C</u>	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No	33
	.••.•					Expiration Date	9-26-05
I. Identificatio	on of System: 1B2	1 NUCLEAR BOIL	ER PROC	ESS INSTI	RUMENT	ATION	
). (a) Applicat	ble Construction C	ode: <u>ASME SECT</u> NAME/SECT	ION III NB	N/CLASS		,19 <u>74</u> Editi	on
<u>WINTE</u>	R 19 <u>75</u>	Addenda Code	Case(s) N	1224-1,N22	5,N3,N41	<u>3,N71-9,N71-11,10</u>	644-5
<u>1728, N</u>	1272.			· · · · · · · · · · · · · · · · · · ·			
(b) Constru	uction Code used t	for repairs, modific	ations, or r	eplacemen			
	Codo Socian XI o	onlinchie feeleeen	ing language	lion	Ea 1989	ition Addenda N/A	Code Case( N/A
	Code Section XI a	pplicable for Inserv	nce inspec	uon.			
(d) Applica					EO	ition Addenda	Code Case(
	ble Edition of Sec	tion XI Utilized for F	Repairs, M	odification,			Code Case(
19 <u>89</u> ,	ble Edition of Sect EDITION	19 <u>N/A</u>	Adenda	odification, <u>N/A</u>			Code Case(
	EDITION	19 <u>N/A</u>	Addenda le Case(s)	<u>N/A</u>	or Replac	æments:	Code Case(
(e) Design	<u>EDITION</u> Responsibilities <u>F</u>	19 <u>N/A</u>	Addenda le Case(s) JCLEAR O	<u>N/A</u>	or Replac - COMPA	ements:	Code Case(
(e) Design	<u>EDITION</u>	19 <u>N/A</u> Cod IRSTENERGY NL	Addenda le Case(s) JCLEAR O I, or Replac	<u>N/A</u>	or Replac - COMPA	xements: NY PNPP Repair,	Code Case(
(e) Design . Identificatio	EDITION Responsibilities [ n of Components	19 <u>N/A</u> Cod Cod FIRSTENERGY NL Repaired, Modified	Addenda le Case(s) JCLEAR O I, or Replac	<u>N/A</u> PERATING cement Cor	or Replac	xements:	·
(e) Design dentificatio Name of Component	EDITION Responsibilities [ n of Components Name of Manufacturer GENERAL	19 <u>N/A</u> Cod <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>C</u>	Addenda le Case(s) JCLEAR O I, or Replac Nat. Board	N/A PERATING cement Col	or Replac	xements: <u>NY PNPP</u> Repair, Replacement,	ASME Code
(e) Design Identificatio Name of Component	EDITION Responsibilities <u>F</u> n of Components Name of Manufacturer	19 <u>N/A</u> Cod <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Co</u>	Addenda le Case(s) JCLEAR O I, or Replac Nat. Board No.	N/A PERATING cement Cor Other ID.	or Replac	Repair, Replacement, or Modification	ASME Code Stamped
(e) Design Identificatio Name of Component PIPING	EDITION Responsibilities [ n of Components Name of Manufacturer GENERAL	19 <u>N/A</u> Cod <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Co</u>	Addenda le Case(s) JCLEAR O I, or Replac Nat. Board No.	N/A PERATING cement Cor Other ID.	or Replac	Repair, Replacement, or Modification	ASME Code Stamped
(e) Design Identificatio Name of Component PIPING	EDITION Responsibilities [ n of Components Name of Manufacturer GENERAL	19 <u>N/A</u> Cod <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Co</u>	Addenda le Case(s) JCLEAR O I, or Replac Nat. Board No.	N/A PERATING cement Cor Other ID.	or Replac	Repair, Replacement, or Modification	ASME Code Stamped
(e) Design . Identificatio Name of Component PIPING	EDITION Responsibilities [ n of Components Name of Manufacturer GENERAL	19 <u>N/A</u> Cod <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Co</u>	Addenda le Case(s) JCLEAR O I, or Replac Nat. Board No.	N/A PERATING cement Cor Other ID.	or Replac	Repair, Replacement, or Modification	ASME Code Stamped
(e) Design . Identificatio Name of Component PIPING	EDITION Responsibilities [ n of Components Name of Manufacturer GENERAL	19 <u>N/A</u> Cod <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Cod</u> <u>Co</u>	Addenda le Case(s) JCLEAR O I, or Replac Nat. Board No.	N/A PERATING cement Cor Other ID.	or Replac	Repair, Replacement, or Modification	ASME Code Stamped
(e) Design Identificatio Name of Component PIPING SYSTEM	EDITION Responsibilities [ n of Components Name of Manufacturer GENERAL ELECTRIC	19 <u>N/A</u> Cod Cod IRSTENERGY NL Repaired, Modified Manufacturer Serial No. 1B21	Addenda le Case(s) JCLEAR O I, or Replac Nat. Board No. 64084	N/A PERATING cement Con Other ID. N/A	or Replac	Exements:	ASME Code Stamped YES
(e) Design Identificatio Name of Component PIPING SYSTEM	EDITION Responsibilities [ n of Components Name of Manufacturer GENERAL ELECTRIC	19 <u>N/A</u> Cod Cod Cod Cod Cod Cod Cod Cod	Addenda le Case(s) JCLEAR O I, or Replac Nat. Board No. 64084	N/A PERATING cement Con Other ID. N/A	or Replac	Exements:	ASME Code Stamped YES
(e) Design Identificatio Name of Component PIPING SYSTEM	EDITION Responsibilities [ n of Components Name of Manufacturer GENERAL ELECTRIC	19 <u>N/A</u> Cod Cod IRSTENERGY NL Repaired, Modified Manufacturer Serial No. 1B21	Addenda le Case(s) JCLEAR O I, or Replac Nat. Board No. 64084	N/A PERATING cement Con Other ID. N/A	or Replac	Exements:	ASME Code Stamped YES
(e) Design Identificatio Name of Component PIPING SYSTEM	EDITION Responsibilities [ n of Components Name of Manufacturer GENERAL ELECTRIC GENERAL ELECTRIC	19 <u>N/A</u> Cod Cod Cod Cod Cod Cod Cod Cod	Addenda le Case(s) JCLEAR O I, or Replac Nat. Board No. 64084 0853 AND 4.	N/A PERATING cement Con Other ID. N/A	or Replac	Exements: NY PNPP Repair, Replacement, or Modification REPLACEMENT S/N 160891 @ 1E	ASME Code Stamped YES
(e) Design Identificatio Name of Component PIPING SYSTEM	EDITION Responsibilities [ n of Components Name of Manufacturer GENERAL ELECTRIC of Work: <u>REMOV</u> W 1-5/8-8 NUTS	19 <u>N/A</u> Cod Cod Cod Cod Cod Cod Cod Cod	Addenda le Case(s) JCLEAR O I, or Replace Nat. Board No. 64084 64084 0853 AND 4.	N/A PERATING cement Con Dother ID. N/A	or Replace COMPA mponents Year Built 1985 DVALVE perating P	Exements: NY PNPP Repair, Replacement, or Modification REPLACEMENT S/N 160891 @ 1E	ASME Code Stamped YES

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>JOHN W. MESSENGER</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. 33 to use the "NR stamp expires SEPT, 26, 20,05
Date JUNE 20, 20 03 Signed FENOC-PNPP (authorized representative) QE (little)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I,
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

. • 1

• •. •

.

ţ

.

.

.... .

2. 4

Manufactured by Manufactured for Location of Installation 	General Electric, San Jose (Name and Address of Purchaser Perry 1 + 11 spares North f G 471-6/125.04.03 nd Address of	
Location of Installation 	Name and Address of Purchaser Perry I + II spares North f	
<u>N/A</u> (CRN)		
(CRN)	G 471-6/125.04.03 Fev. 6	
Maha		148 1979
(Model	G471 (Orewing No.)	(Nat'l. Brd. No.) (Year Built) No. 160891
	No., Safety/Relief	(N Certificate Holder's Serial No.)
	Asterna Relief; Pilot; Power Actuated 8	" (Flance) 10"
Orifice Size	Nominal Inlet Size	Outlet Size
i i	nch in the second se	
Set Pressure (PSIG) _	Bated	Temperature 9
Stamped Capacity _9.		% Qverpressure Blowdown (PSIG) 111-85
Hydroetatic Test (PSIG	Set. Steem 2350	975
Pressure Retaining Piec		(Applicable to valves for closed systems only)
	Serial No. or	Material Specification
•.	Identification	Incl. Type or Grade
Body	12.22.8	SA 352 LCB
Bonnet or Yoke	04.36.8	SA 352 LCB
Support Roda		
Nozzie	AJW 089	SA 350 LF2
Disc .	<u>60.07.9 s/n .1A</u>	SA 351 CF3A 45 Cr Mg V 67
Spring Weshers	<u>26.30.95 s/n 152</u> CBA 030 CBA 003	SA 182 F 316
		A 564-74 type 630 cond. H1100
Adjusting Screw . Spindle .	CAD 013	A 564-74 type 630 cond. H1100
Spindle Spring		A 564-74 type 630 cond. H1100 SA 193-B7/5A 194-7/SA 194-2H
Spring Bolting	CAD 013	SA 193-B7/5A 194-7/SA 194-2H
Spindle Spring Botting Other Piacex×	CAD 013 ANY/ANZ/AVS/AJS/APA/APB/ANZ CAL/ALR/AUY 57.06.9 s/n 2	SA 193-B7/5A 194-7/SA 194-2H SA 351 CF3A
Spindle Spring	CAD 013 ANY/ANZ/AVS/AJS/APA/APB/ANZ CAL/ALR/AUY	SA 193-B7/5A 194-7/SA 194-2H

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

10/77)

.

•

ł

This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47th 8t., New York, N.Y. 10017

÷

× .

•

. : 127

	FORM NV-1 (Back)
	CERTIFICATE OF COMPLIANCE
We certify that the statements of the ASME Code for Nuclear Code Case No. <u>N.A.</u>	is made in this $r_{c}$ on are correct and that this value conforms to the rules of construction r Power Plant Components, Section III, Div. 1., <u>1974</u> Edition, Addenda <u>SUM.</u> 76 (Date)
Date 01.07.01_Signe	ed G. Dikheits & CO NV by Htmobbes
Our ASME Certificate of A	Authorization No. 1806 to use the NV
Symbol expires 1st. Jul (Date)	
•	CERTIFICATION OF DESIGN
"ssign information on file at _	General Electric and Perry 1 + 11 spares
Stress analysis report (Class 1	
	by Boyd P. Brooks
State California	
Stress report certified by' California	
~ StateLalitornia	a/Illinois Reg. No M 14921/62-25749
Signature not required—list n	name only.
	CERTIFICATE OF SHOP INSPECTION
	valid commission issued by the National Board of Boiler and Pressure Vessal Inspectors (Anana) and employed by Royal Indemnity Co.
New York	have inspected the pump, or value described; in this Date Report or 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder hav ve, in accordance with the ASME Code for Nuclear Power Plant Components.
New York	19. Z9 and state that to the best of my knowledge and belief, the N Certificate Holder has ve, in accordance with the ASME Code for Nuclear Power Plant Components. ither the Inspector nor his employer makes any warrant, expressed or implied, concerner;
New York	19 Z9 and state that to the best of my knowledge and belief, the N Certificate Holder has ve, in accordance with the ASME Code for Nuclear Power Plant Components.
New York	19 79 and state that to the best of my knowledge and belief, the N Certificate Holder have two, in accordance with the ASME Code for Nuclear Power Plant Components. ither the Inspector nor his employer makes any warrant, expressed or implied, concerning his Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any ty or property damage or a loss of any kind arising from or connected with this Inspector 19 - 19 - 11 - 11 - 11 - 11 - 11 - 11 -
New York	19 79 and state that to the best of my knowledge and belief, the N Certificate Holder have ve, in accordance with the ASME Code for Nuclear Power Plant Components. ither the Inspector nor his employer makes any warrant, expressed or Implied, concerning his Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any ry or property damage or a loss of any kind arising from or connected with this Inspector
New York	19 79 and state that to the best of my knowledge and belief, the N Certificate Holder have two, in accordance with the ASME Code for Nuclear Power Plant Components. ither the Inspector nor his employer makes any warrant, expressed or implied, concerning his Data Report. Furthermore, neither the Inspector nor his employer shall be liable in an ry or property damage or a loss of any kind arising from or connected with this Inspection $\frac{19}{4}$ N.B. 6653
New York	19 79 and state that to the best of my knowledge and belief, the N Certificate Holder have two, in accordance with the ASME Code for Nuclear Power Plant Components. ither the Inspector nor his employer makes any warrant, expressed or implied, concerning his Data Report. Furthermore, neither the Inspector nor his employer shall be liable in an ry or property damage or a loss of any kind arising from or connected with this Inspection $\frac{19}{4}$ N.B. 6653
New York	19 79 and state that to the best of my knowledge and belief, the N Certificate Holder have in accordance with the ASME Code for Nuclear Power Plant Components. ither the Inspector nor his employer makes any warrant, expressed or implied, concerning his Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any ry or property damage or a loss of any kind arising from or connected with this Inspector. 19 4. N.B. 6653
New York	19 79 and state that to the best of my knowledge and belief, the N Certificate Holder have two, in accordance with the ASME Code for Nuclear Power Plant Components. ither the Inspector nor his employer makes any warrant, expressed or implied, concerning his Data Report. Furthermore, neither the Inspector nor his employer shall be liable in an ry or property damage or a loss of any kind arising from or connected with this Inspection $\frac{19}{4}$ N.B. 6653
New York	19 79 and state that to the best of my knowledge and belief, the N Certificate Holder have two, in accordance with the ASME Code for Nuclear Power Plant Components. ither the Inspector nor his employer makes any warrant, expressed or implied, concerning his Data Report. Furthermore, neither the Inspector nor his employer shall be liable in an ry or property damage or a loss of any kind arising from or connected with this Inspection $\frac{19}{4}$ N.B. 6653
New York	19 79 and state that to the best of my knowledge and belief, the N Certificate Holder have two, in accordance with the ASME Code for Nuclear Power Plant Components. ither the Inspector nor his employer makes any warrant, expressed or implied, concerning his Data Report. Furthermore, neither the Inspector nor his employer shall be liable in an ry or property damage or a loss of any kind arising from or connected with this Inspection $\frac{19}{2}$ N.B. 6653
New York	19 79 and state that to the best of my knowledge and belief, the N Certificate Holder have two, in accordance with the ASME Code for Nuclear Power Plant Components. ither the Inspector nor his employer makes any warrant, expressed or implied, concerning his Data Report. Furthermore, neither the Inspector nor his employer shall be liable in an ry or property damage or a loss of any kind arising from or connected with this Inspection $\frac{19}{4}$ N.B. 6653

and the second 
1B21-342

	NIS-2	/NR-1 OWNE						ACEM	ENTS
P	NPP No. 9308 F	AS re Rev. 9/11/00	quired by the Prov						NQI-1741
1	. Owner:	FIRS	TENERGY CORP.				Date	<u>6-20-03</u>	
		10 Center F	Road, Perry, Ohio	44081			Sheet	<u>1</u> of	2
2	. Plant: _	Perry Nucl	ear Power Plant (F	NPP)	·		Unit	ONE	
	<u> </u>	10 Center F	Road, Perry, Ohio 4	4081				1-17346-00 r Org. P.O. N	
								-	
3	. Work Perfo	ormed By: <u>FIRSTE</u>					•••	•	ol Stamp NR
		<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>			ization No.	
							• •	tion Date g	9-20-05
4	. Identificatio	n of System: <u>1B2</u>	1 NUCLEAR BOIL	ER PROC	ESS INSTR	UMENTA	TION		
5	(a) Applicat	ole Construction Co	ode: <u>ASME SECTI</u> NAME/SECT	ON III NB		<u></u>	19 <u>7</u>	4 Editio	n
ł	WINTE	<u>R 19 75</u>			224-1.N22	5.N3.N41	3.N71-9	.N71-11.16	44-5
	<u>1728, N</u>			(-) 2					
	(b) Constru	uction Code used for	or repairs, modifica	ations, or r	eplacement			INTER 75	
	(c) ASME	Code Section XI ap	policable for Incond	ico Inched	lion:	Edi 1989		Addenda I/A	Code Case(s) N/A
		cone section vi at	plicable for inserv	ice inspec	uori.			Addenda	Code Case(s)
		ble Edition of Secti	on XI Utilized for F	Repairs, Mo	odification,	or Replac	ements:		
	19 <u>89 .</u>	EDITION		ddenda e Case(s)	<u>N/A</u>	•			
		Responsibilities <u>F</u>			· · · ·		NY PNP	P	
6.	Identificatio	n of Components F	Repaired, Modified		ement Con	nponents	r		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repla	epair, acement,	ASME Code
			[	No.				dification	Stamped
	PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	N/A	1985	REPLA	CEMENT	YES
					-				11 11 11 11 11 11
				]					
		<u> </u>		<u> </u>	·				
-		<u> </u>	l	[	l	[	[		
7. U	Description SING (12) NE	of Work: <u>REMOVE</u> W 1-5/8-8 NUTS I	<u>ED VALVE S/N 160</u> HEAT CODE (1) D	284 AND	<u>INSTALLE</u> (11) SVX	D VALVE	S/N 160	0890 @ 1B	21F047D
	. <u></u>								
8.	Test Conduc	cted: Hydrostatic	- D Pneumat	ic- 🔲 🖡	Iominal Op	erating Pi	ressure-	Othe	er- 🔲
	Pressure <u>1(</u>	<u>)25 psi Te</u>	st Temperature 1	<u>30 </u> d	legrees F	Code	Case(s)	<u>N/A</u>	

متر منبو

NIS-2/NR-1 OWNER'S REPORT FOR RE	PAIRS OR REPLACEMENTS (Back)
Remarks:	
O NAMEPLATE/STAMPING PERFORMED DUE TO THE FECT AND JURISDICTIONAL AUTHORITY CONCURRI	INTERFACE CONTROLS OF RA-2370 BEING IN ENCE HAVING BEEN RECEIVED.
ote: Attach all applicable Manufacturer's Data Reports. Su drawings may be used, provided (1) size is 8 1/2 in. x report is included on each sheet, and (3) each sheet the front of this form.	upplemental sheets such as lists, sketches, or (11 in., (2) information in items 1 through 6 of this is numbered and the number of sheets is recorded on
CERTIFICATE OF C	OMPLIANCE
I, <u>JOHN W. MESSENGER</u> , certify that to the best of my knowle correct and the repair, modification or replacement of the items Code and to the National Board Inspection Code "NR" rules.	edge and belief the statements made in this report are described above conforms to Section XI of the ASME
National Board Certificate of Authorization No33	to use the "NR stamp expires <u>SEPT. 26</u> , 20 05
Date JUNE 20, 20 03 Signed FENOC-PNPP (name of repair organization)	(duthorized representative) QE (duthorized representative) (title)
CERTIFICATE OF INSPECTION/	
I, THOMAS G. LAPS , holding a valid	commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issue	1
and employed by <u>HSB CT.</u>	. ' 1
inspected the repair, modification or replacement described in t the best of my knowledge and belief, this repair, modification or	•
Section XI of the ASME Code and the National Board Inspectio	
By signing this certificate, neither the undersigned nor my empl	a sector and a sector and a sector and a sector and a sector a s
concerning the work described in this report. Furthermore, neith	
any manner for any personal injury, property damage or loss of	
Date June 30, 20 03 Signed Themes & Japa (inspector)	Commissions <u>NB 9330</u> <u>N I A</u> Chum (National Board (include endorsements), and jurisdiction, and no.)

•

REPORT	NO.	P00	59-009	)
--------	-----	-----	--------	---

1. Manufactured by		gelo (O) The Netherlands	
Manufactured for	General Electric, San Jo		•
. Location of Installatio			·
	G 471-6/125.04.03 4 eV.	147	979
(CRN) . Valve	G471 (Drawing No.)	(Nert. Brd. No.) (Yes	r Buik)
(Mode	No., Salety/Relief	ying Nos. <u>160890</u> (N Certificate Holder's	Serial No.)
Salety	, Salety Relief; Pilot; Power Actuated	8" (Flanges)	10*
Orifice Size	inch. Nominat Inter Size	inch Outlet Size	inch
			85
Set Pressure (PSIG) Stemped Capacity _	<b>J</b>	ed Temperature	106,12
	Set Steam 2350	y y	75
Hydrostatic Test (PSK Pressure Retaining Pic		Outlet (Applicable to valves for ck	osed systems only!
a manana mananining Pa	Serial No. or Identification	Material Specification	
aody	01.13.8	SA 352 LCB	<b>k</b>
Bonnet or Yoke	02.34.8.s/n 2	SA 352 LCB	
Support Rods	AJW 087		
Nozzie	54.07.9 s/n 1A	SA 350 LF2 SA 351 CF3A	
Disc	26.30.95 s/n 150	45 Cr Mo V 67	
· · · · ·			
Spring Washers			
Adjusting Screw	CBA 0427ASB 049	SA 182 F 316	cond. H1100
Adjusting Screw Spindle			cond. H1100
Adjusting Screw Spindle Spring	CBA 0427ASB 049	SA 182 F 316 A 564-74 type 630	
Adjusting Screw Spindle Spring Bolting	CBA 042/ASB 049 _CAD 018 _ANY/ANZ/AVS/AJS/APA/APB/ANZ _CAL/ALR/AUR	SA 182 F 316           A 564-74 type 630           SA 193-B7/SA 194-7	
Adjusting Screw Spindle Spring Bolting Ottac Places Liffel	CBA 042/ASB 049 _CAD 018 _ANY/ANZ/AVS/AJS/APA/APB/ANZ _CAL/ALR/AUR _59.39.8 s/n 2	SA 182 F 316           A 564-74 type 630           Z           SA 193-B7/SA 194-7           SA 351 CF3A	
Adjusting Screw Spindle Spring Bolting Other Places Liner Cover	CBA 042/ASB 049 _CAD 018 _ANY/ANZ/AVS/AJS/APA/APB/ANZ _CAL/ALR/AUR _59.39.8 s/n 2 _61.46.7 s/n 9	SA 182 F 316           A 564-74 type 630           Z           SA 193-B7/SA 194-7           SA 351 CF3A           SA 351 CF8M	
Adjusting Screw Spindle Spring Bolting Otterspieces	CBA 042/ASB 049 _CAD 018 _ANY/ANZ/AVS/AJS/APA/APB/ANZ _CAL/ALR/AUR _59.39.8 s/n 2	SA 182 F 316           A 564-74 type 630           Z           SA 193-B7/SA 194-7           SA 351 CF3A	

Max. outside diam. valve body: 480 mm (18.90)

Max. outside length valve : 1646 mm. (64.80)

\* 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.

\*\*0/77}

. . . •

.

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

e

÷.

\_\_\_\_\_

\_\_\_\_

		CERTIFICATE OF	F COMPLIAN	CE			
a certify that the stater	ments made in thi	is report are correct	t and that this	valve coni	forms to the	rules of co	nstruction
the ASME Code for Nu	clear Power Plant	Components, Sectio	on III, Qiv. 1., 🔤	1974	_ Edition, Ad	tenda <u>Su</u>	m. 76 (Date)
de Case No. N.A.					$\mathbb{D}$		(2.0.0)
1107.03	Signed <u>G. Di</u>	kkers & CO NV	b	~-ゴ	<u>terrol</u>	Joser	
ur ASME Certificate	of Authorization			1806	to	use the	NV
mbol expireslst.	July 1980			•			
(D)	ste)						
		CERTIFICATION					•
esign information on file	e at	General El	ectric and	Perry	I +II spa I +II spa	res	
ress analysis report (Cl	ass 1 only) on file	at General Li	ectric and				- <del></del>
sign specifications cert	ified by	Boyd P. Bro					
State Califor	rnia		. NO	13655			
ress report certified by	rnia/Illinoi	Robert L. T		N 14921	752-25749		
		R	leg. No				
ignature not required-	list name only.					·····	
		······································			· · ·		
	CE	RTIFICATE OF SH	IOP INSPECT	ION			• •
No. Varle		io (Canada) have inspected th I state that to the be	and employ e pump, or v est of my knowl	yed by valve, de:	Royal I scribed in the belief, the N	his Data	Report on
New York 26 September ponstructed this pump, o y signing this certificate	, 19 <u>79</u> and or valve, in accord e, neither the Insp	have inspected th I state that to the be ance with the ASME pector nor his emplo	e pump, or est of my knowl E Code for Nucl oyer makes any	yed by valve, de: ledge and ear Power y warrant,	scribed in ti belief, the N Plant Compo expressed o	his Data Certificate ments. r implied,	y Report on Holder has concerning
New York 26 September onstructed this pump, o signing this certificate e equipment described	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne	e pump, or est of my knowl E Code for Nucl over makes any either the Inspe	yed by valve, de: ledge and ear Power y warrant, ector nor h	scribed in the belief, the N Plant Compo expressed on his employer	his Data Certificate Inents. r implied, shall be lia	y Report on Holder has concerning sble in any
New York 26 September Instructed this pump, of signing this certificate equipment described anner for any personal	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or we est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind ari	yed by valve, de: ledge and ear Power y warrant, sctor nor h sing from	scribed in the pelief, the N Plant Composed expressed on his employer or connected	his Data Certificate Inents. r implied, shall be lia	y Report on Holder has concerning sble in any
New York 26 September Instructed this pump, of signing this certificate equipment described nner for any/personal Multiple	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the belief, the N Plant Compo expressed on his employer	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September Instructed this pump, of signing this certificate equipment described nner for any/personal te	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September Instructed this pump, of signing this certificate a equipment described anner for any personal te	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September Instructed this pump, or r signing this certificate e equipment described anner for any personal one	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September Instructed this pump, or r signing this certificate e equipment described anner for any personal one	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September Instructed this pump, or r signing this certificate e equipment described anner for any/personal ste	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September Instructed this pump, or r signing this certificate e equipment described anner for any/personal ste	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September onstructed this pump, o y signing this certificate e equipment described anner for any/personal ane	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September onstructed this pump, o y signing this certificate e equipment described anner for any/personal ate	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
a a second s	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September onstructed this pump, o y signing this certificate e equipment described anner for any/personal ate	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September onstructed this pump, o y signing this certificate e equipment described hanner for any/personal ate	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September onstructed this pump, o y signing this certificate e equipment described anner for any/personal ate	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September onstructed this pump, o y signing this certificate e equipment described anner for any/personal ate	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September onstructed this pump, o y signing this certificate e equipment described hanner for any/personal ate	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September onstructed this pump, o y signing this certificate e equipment described hanner for any/personal ate	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any
New York 26 September onstructed this pump, o y signing this certificate e equipment described anner for any/personal ane	, 19 <u>79</u> and or valve, in accorda e, neither the Insp I in this Data Repo	have inspected th I state that to the be ance with the ASME bector nor his emplo ort. Furthermore, ne y damage or a loss	e pump, or the est of my knowl E Code for Nucl oyer makes any either the Inspe of any kind arithesions	yed by valve, de: ledge and ear Power y warrant, ector nor h sing from N.	scribed in the pelief, the N Plant Compose expressed on his employer or connected B 6653	his Data Certificate ments. r implied, shall be lia with this	y Report on Holder has concerning sble in any

1B21-343

NI	5-2/							ENTS
PNPP No. 9	308 Re		quired by the Provi	SIONS OF UT	e asme uc	000 Secu	л хі ——————————	NQ1-1741
1. Owner		FIRST	ENERGY CORP.				Date <u>6-20-03</u>	
	•		Road, Perry, Ohio	44081			Sheet 1 of	2
	2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE							
2. Plant:		Perry Nucl	ear Power Plant (P	NPP)			Unit <u>ONE</u>	
		10 Center F	Road, Perry, Ohio 4	4081	<u> </u>		WO 01-17349-00 (Repair Org. P.O. N	
							(Ropan Org. F.O. H	., 610.7
3. Work F	Perfor	med By: <u>FIRSTEI</u>	NERGY Nuclear Ope	erating Corr	pany PNPP		Type Code Symb	ol Stamp <u>NR</u>
		<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	1		Authorization No.	
							Expiration Date 9	-26-05
4. Identifi	catior	of System: <u>1B21</u>	NUCLEAR BOILI	ER PROCI	ESS INSTR	UMENTA	TION	
5. (a) App	licab	le Construction Co	de: ASME_SECTI				19 <u>74</u> Editio	on
			NAME/SECT					
			Addenda Code	Case(s) <u>N</u>	<u>224-1.N22</u>	<u>0,N3,N41</u>	<u>3,N71-9,N71-11,16</u>	44-5
	2 <u>8, N</u> 2 nstru		or repairs, modifica	tions or r	enlacement	s <sup>.</sup> 1974	WINTER 75	*
(0) 00	150.0		repars, mounce	100113, 01 10	cplacement		tion Addenda	Code Case(s)
(c ) AS	MEC	ode Section XI ap	plicable for Inservi	ice Inspect	tion:	<u>1989</u> Edi	<u> </u>	N/A Code Case(s)
(d) Ap	olicab	le Edition of Section	on XI Utilized for R	lepairs, Mo	odification, o	or Replac	ements:	
19	<u>89 ,</u>	EDITION		ddenda	<u>N/A</u>	-		
(e) De	sign F	Responsibilities <u>F</u>	Code RSTENERGY NU	e Case(s) CLEAR OI	PERATING	COMPA		
6. Identifie	ation	of Components F	Repaired, Modified,	or Replac	ement Con	nponents		
Name		Name of	Manufacturer	Nat.	Other	Year	Repair, Replacement,	ASME Code
Compor	ent	Manufacturer	Serial No.	Board No.	ID.	Built	or Modification	Stamped
PIPING SYSTEM	1	GENERAL ELECTRIC	1821	64084	N/A	1985	REPLACEMENT	YES
· ·								
				[				
L	!	<u></u> ;		L				
7. Descrip INSTALLE	tion o D (3)	of Work: <u>REMOVE</u> NEW 1-5/8-8 STU	D VALVE S/N 160 JDS HEAT CODE	<u>24K AND</u>	INSTALLE (12) NEW	<u>D VALVE 1-5/8-8 N</u>	<u>S/N 160873 @ 1B</u> UTS HEAT CODE	<u>21F047F</u> D284.
·								
8. Test Co		•	—		•	-		er- 🔲
Pressu	e <u>10</u>	<u>25 </u> psi Te:	st Temperature 13	<u>so</u> c	legrees F	Code	Case(s) <u>N/A</u>	<u></u>

	PP No. 9308 Rev. 9/11/00 NC
9. 1	Remarks:
<del>_</del>	
NO	NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING
	FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Jol	te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
.01	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of t
	report is included on each sheet, and (3) each sheet is numbered and the number of sheets is record the front of this form.
	the front of this form.
Г	
	CERTIFICATE OF COMPLIANCE
	I, JOHN W. MESSENGER, certify that to the best of my knowledge and belief the statements made in this report a
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules.
	National Board Certificate of Authorization No33 to use the "NR stamp expires SEPT. 26, 20 05
	Date JUNE 20, 20 03 Signed FENOC-PNPP (authorized representative) QE (title)
	(name of repair organization) (authorized representative) (title)
•	
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, THOMAS G. LAPS, holding a valid commission issued by The National Board of Boile
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	and employed by <u>HSB_CT.</u> of <u>HARTFORD</u> , <u>CONN</u> . h
	inspected the repair, modification or replacement described in this report on wy 9, 2003 and state that
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance
	Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
1	concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liabl
	any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspe
1	
	Date JULY 9 20 03 Stopped Thomas HLANCommissions NB9330 NTA
	Date <u>July 9</u> , 20 <u>03</u> Signed <u>Thomas</u> Hogs-Commissions <u>NB97330</u> <u>NIA</u> (inspector) (National Board (include endorseme and jurisdiction, and no.)

PEPORT	NO.	P0059-009
		-

. Manufactured by	G. Dikkers & Co. NV. Heny	elo (O) The Ne	therlands
Manufactured for	(Name and Address of N Certif General Electric, San Jos	e. California	
	Name and Address of Purcha	iser or Owner}	
. Location of Installation	(Name and Address)		1070
	<u>G 471-6/125.04.03 rev. 6</u>		1979
(CRN)	(Drawing No.) G471 (deptifi	(Nat'l. Brd. No.) 1608	(Year Built) 373
. Valve(Mod	a 140., 36/181 140.1	ying Nos. 1608	ertificate Holder's Serial No.)
Type	Safety/Relief		
Osifica Siza	Y. Safety Relief; Pilot; Power Actuated 4,84"Nominal Inlet Size	8"	Outlet Size <u>10"</u> inch
Orifice Size	inch Nominal Inlet Size	inch	inch
	1180		585
Set Pressure (PSIG)	Kat	ed Temperature% Overpressure I	106.6
Stamped Capacity _	Sat Staam	% Overpressure I	
Hydrostatic Test (PS	2350	Outlet	. 975
Pressure Retaining P		(Applic	able to valves for closed systems only)
	Serial No. or		Material Specification
	Identification		Incl. Type or Grade
0.4.	06.24.8-3	SA_352_	
Body Report of Voka	11.05.8-3	SA_352	
Bonnet or Yoke Support Rods			
Nozzle	AJW 036	SA 350	I F2
Disc	54.30.3-1A	SA 351	
	26.30.95.67		o V 67
Spring Washers	AFU 092 AFU 068	SA 182	
Adjusting Screw	AJE 036	A 564-7	4 type 630 corki. H1100
Spindle			
Spring	AJK/AVS/ANY/AJJ/AYE	SA 193-	B7/SA 194-7/SA 194-2H
Bolting XXKHYKKKXX	AWZ/AJJ/APA/AJL/AJS		
Liner		SA 351	CF3A
Cover	53.28.8-9	SA 351	
		SA 105	
Vent. Pipe	AKE 011		

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

(10/77)

٠.

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

• .

FORM NV-1 (Back)

う

ł

. 7

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., <u>1974</u> Edition, Addenda <u>sum. <sup>4</sup>76</u> , Code Case No. <u>N.A.</u> Date <u>81.06-25</u> Signed <u>G. Dikkers &amp; Co NV</u> (N Certificate Holder) Our ASME Certificate of Authorization No. <u>1806</u> to use the <u>NV</u> (NV) symbol expires <u>1st. July 1980</u> (Date)				

Design information on file at		General Flectric	and permit	
Stress analy:	sis report (Class 1 only) on file at _	General Electric	and Perry II	<del></del>
Design speci	fications certified by	Boyd P. Brooks	······	
PE State	California	Reg. No	13655	
Stress report	certified by	Robert L. Weiss		
PE State	California/Illinois	Reg. No	M 14921/62-25749	
	ot required—list name only.			······································

#### CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the and the State or Province of <u>Ohio, PA</u> of <u>Long Grove III</u> have inspected the <u>23 March</u> , 19 79 and state that to the best constructed this pump, or valve, in accordance with the ASME C	and employed by <u>Kemper Ins</u> , pump, or valve, described in this Data Report on t of my knowledge and belief, the N Certificate Holder has
By signing this certificate, neither the Inspector nor his employ the equipment described in this Data Report. Furthermore, neith manner for any personal injury or property damage or a loss of Data $4 \le 2/2$	her the Inspector nor his employer shall be liable in any
Signed LU. Lots Commis	sions <u>NB 4805</u> (Nat'l. 8d., State Prov. and No.)

,

1B21-3
--------

	Rev. 9/11/00			e ASME C			NQI-1741
1. Owner:	FIRS	ENERGY CORP.				Date <u>6-20-03</u>	
		Road, Perry, Ohic	44081			Sheet 1 of	2
2. Plant: _	Perry Nucl	ear Power Plant (F	PNPP)			Unit <u>ONE</u>	
	10 Center F	Road, Perry, Ohio	44081			WO 01-17350-00 (Repair Org. P.O. N	
						(Repair Olg. F.O. R	0., 0.0.)
3. Work Perfo	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPP	-	Type Code Symb	ol Stamp N
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	11		Authorization No.	
						Expiration Date §	9-26-05
4. Identificatio	n of System: <u>1B2</u>	1 NUCLEAR BOIL	ER PROC	<u>ESS INSTF</u>	RUMENT	ATION	
5. (a) Applical	ble Construction Co					,19 <u>74</u> Editio	on
	D 40 55		TION/DIVISIO			0 NI74 0 NI74 44 44	
<u>WINTE</u> 1728, M		nadenda Code	Case(s) N	224-1,N22	<u>5,N3,N41</u>	<u>3,N71-9,N71-11,16</u>	944-0
	uction Code used for	or repairs modific:	ations or r	enlacemen	ts: 1974	WINTER 75	*
				cpiacemen		ition Addenda	Code Case(
(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:		ition Addenda	N/A Code Case(
(d) Applica	ble Edition of Secti	on XI Utilized for F	Repairs, Mo	odification,	or Replac	cements:	•
19 <u>89   </u>	EDITION		ddenda	<u>N/A</u>	_		
(e) Design	Responsibilities <u>F</u>		e Case(s) ICLEAR O	PERATING	COMPA	NY PNPP	
6. Identificatio	n of Components F	Repaired, Modified	, or Replac	cement Cor	nponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1821	64084	N/A	1985	REPLACEMENT	YES
PIPING		1821	64084	N/A	1985	REPLACEMENT	YES
PIPING		1821	64084	N/A	1985	REPLACEMENT	YES
PIPING		1821	64084	N/A		REPLACEMENT	YES
PIPING		1821	64084	N/A		REPLACEMENT	YES
PIPING SYSTEM							
PIPING SYSTEM	Of Work: <u>REMOVE</u>	ED VALVE SAN 16	0875 AND	INSTALLE		S/N 160870 @ 1E	21F047H
PIPING SYSTEM 	Of Work: <u>REMOVE</u>	ED VALVE SAN 16	0875 AND	INSTALLE			21F047H
PIPING SYSTEM 	OF Work: <u>REMOVE</u> W 1-5/8-8 INLET AND (5) C-139.	ED VALVE SAN 16 STUDS HEAT CO	0875 AND DDE Z4K ,	INSTALLE AND (12) N	D VALVE	S/N 160870 @ 1E 3-8 NUTS HEAT CO	21F047H

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Bac No. 9308 Rev. 9/11/00
9. R	emarks:
<u> </u>	
	IAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING ECT 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 report is included on each sheet, and (3) each sheet is numbered and the number of sheets is reco the front of this form.
Γ	CERTIFICATE OF COMPLIANCE
	JOHN W. MESSENGER, certify that to the best of my knowledge and belief the statements made in this report prect and the repair, modification or replacement of the items described above conforms to Section XI of the AS ode and to the National Board Inspection Code "NR" rules.
	ational Board Certificate of Authorization No. 33 to use the "NR stamp expires <u>SEPT. 26</u> , 20 05 ate <u>JUNE 20</u> , 20 03 Signed <u>FENOC-PNPP</u> (authorized representative) <u>QE</u> (name of repair organization) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
1.	THOMAS G. LAPS, holding a valid commission issued by The National Board of Boile
	ressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO and employed byHSB_CTofHARTFORD_CONNh
	id employed by <u>HSBCT</u> , of <u>HARTFORD</u> CONN. h spected the repair, modification or replacement described in this report on <u>JUNE17</u> 20 03 and state that
ar	
ar in	
ar in th	e best of my knowledge and belief, this repair, modification or replacement has been completed in accordance
ar in th So	e best of my knowledge and belief, this repair, modification or replacement has been completed in accordance ection XI of the ASME Code and the National Board Inspection Code "NR" rules.
ar in th So By	e best of my knowledge and belief, this repair, modification or replacement has been completed in accordance ection XI of the ASME Code and the National Board Inspection Code "NR" rules. It signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
ar in th Se By co	e best of my knowledge and belief, this repair, modification or replacement has been completed in accordance ection XI of the ASME Code and the National Board Inspection Code "NR" rules.

----

· · ·

-----

2 Manufactured for 3 Location of Installat				(0) The Netherlands	
J. Lucation of Installa		e and Address of Electric S		m Calif. 7	
		Name and Address o 1 North F	EPurchaser or Own	er)	
4.	6474	Name and A) 125.04.03		68	
(CHN) 5 Valve	. 177.1	(Drawing No.)		T Brd No.) (Year Built)	
	G 171 del No., Serice No.)		Identifying Nos	160870 1979 (N. Certificate Holder's Serial No.)	1
Type	safety/	relief			
	ity, Salety Reliat, Pilo 8-111 inch	i, rower Addeled Norninal Intet Sid	te 811 inch	Outlet Size 10"	••
6. Set Pressure (PSIG	1 1165		Hated Tempe	rature 585	,
Stamped Capacity	90573.1 Set. Steam	ibs/hr @	.,	rpressure Blowdown (PSIG) 45,5	
Hydrostatic Test (PS		2350	Outle	et 975	
7. Pressure Retaining I			U.C.	Applicable to valves for closed systems on	IY)
		Serial No. or Identification		Material Specification Incl. Type or Grade	
Body	09.11.8	SN 2		SA 352 LGB	
Bonnet or Yoke	04.30.8	••	• .	SA 352 LGB	
Buppen flods +		·			• • • •
Nozzie	VIM 008			SA 350 LF2	• •
Disc	57.29.8	38		SA 351 CF3A	
Spring Washers	26.30.95	nr. 71		45 Cr Mo V 67	
Adjusting Screw		AME 001		SA 182 F316	
Spindle	AJE 012			A 564-74 type 630 cond. HI	100
4Spring (				•	
Botting	ANY/AYE/AN	/S/ALR/AWZ		SA 193-B7/SA 194-7/SA 194-2	ม
Active Libeche	AMR/AJM/A.	IL/AJJ		JA 150-07/JA 154-1/JA 154-2	**
Liner	52.35.8	SN 2		SA 351 CE3A	
Cover	53.28.8	SN 4		SA 351 CF8M	
Vent pipe	AKE 017			SA 105	
Flanges	AKF 015 /	FV 059	,	SA 105	
Max. outside	lipm. valve b	ody	480 mm.	(18,89)"	

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" × 11", (2) information in itama 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///)

:

٠

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

· • · ·

FORM NV-1 (Back)	20/ 206 7
CERTIFICATE OF COMPLIANCE	
Code Case No	the rules of construction Addenda <u>51114</u> , <u>76</u> , (Date) TEINE: to use the NV
symbol expres 151 July, 1980. (Date)	(NV)

#### CERTIFICATION OF DESIGN

Design information on file at Stress analysis report (Class 1 only) on file at	General Electric and Perry II General Electric and Perry II	
Design specifications certified by PE State Cultfornia	Royd P. Brooks	
Stress report certified by Bobert J., We PE State California/Illinios Signature not required—list name only.	Reg No. <u>M14921/62-25749</u>	

#### CERTIFICATE OF SHOP INSPECTION

), the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of \_\_\_\_QLiQ and employed by Kemper Ins have inspected the pump, or valve, described in this Data Report on Long Grove Ill. ol and state that to the best of my knowledge and belief, the N Certificate Holder has 12 March . 19 79 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. Signed Junspectori

NI2. 4456 (Net ) 8d , State Prov and No ) Commissions

£

1	B2	1	-345
---	----	---	------

NIS	-2/NR-1 OWNE						ENTS
PNPP No. 930	AS FE 8 Rev. 9/11/00	quired by the Provi	sions of th				NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 6-20-03	
		Road, Perry, Ohio	44081			Sheet 1 of	2
						•	
2. Piant:	Регту Nuc	lear Power Plant (F	NPP)			Unit <u>ONE</u>	···
	10 Center F	Road, Perry, Ohio 4	4081			<u>WO 01-17351-00</u>	00,001_R/0
						(Repair Org. P.O. N	lo., etc.)
3. Work Pe	rformed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Con	pany PNPP		Type Code Symb	ol Stamp <u>NR</u>
	<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>11</u>		Authorization No.	33
						Expiration Date	9-26-05
4. Identifica	tion of System: <u>1B2</u>	1 NUCLEAR BOILI	ER PROC	ESS INSTR		TION	
5. (a) Appli	cable Construction C	ode: <u>ASME SECTI</u>	<u>ON III NB</u>		·	,19 <u>74</u> Editio	on
14/1A	TER 19 75	NAME/SECT			5 N3 N/1	3,N71-9,N71-11,16	44-5
	<u>N272.</u>			224-1,1922	<u>, 140, 144 1</u>	<u>5,1111-5,1111-11,1</u> 0	<u></u>
	struction Code used f	or repairs, modifica	ations, or r	eplacement	s: <u>1974</u>	WINTER 75	
				•		tion Addenda	Code Case(s)
(C) ASM	E Code Section XI ap	oplicable for inservi	ice inspec	tion:	<u>1989</u> Edi	tion Addenda	N/A Code Case(s)
(d) Appl	cable Edition of Sect	ion XI Utilized for R	Repairs, M	odification,	or Replac	ements:	
19 <u>89</u>	. EDITION		ddenda e Case(s)	<u>N/A</u>	-		
	gn Responsibilities <u>F</u>	IRSTENERGY NU	CLEAR O			NY PNPP	
6. Identifica	tion of Components I	Repaired, Modified,		cement Con	nponents		
Name of Compone		Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	N/A	1985	REPLACEMENT	YES
			<u> </u>				
				}			<u> </u>
		<u> </u>	<u> </u>	· · ·		<u> </u>	
				<u> </u>			<u> </u>
·	<u> </u>	l				l	
	on of Work: <u>REMOV</u> IEW_1-5/8-8 INLET :						
8. Test Con	•		<u> </u>	•	. •		er- 🗌
rressure	<u>1025</u> psi Te	st Temperature 13	<u> </u>	legrees F		Case(s) <u>N/A</u>	
				:			

Re	marks:
) N	AMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN
	CT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
ote:	Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorde
	the front of this form.
	CERTIFICATE OF COMPLIANCE
I, <u>J</u>	<u>OHN W. MESSENGER</u> , certify that to the best of my knowledge and belief the statements made in this report are rect and the repair, modification or replacement of the items described above conforms to Section XI of the ASME
Co	de and the repair, modification of replacement of the items described above contorms to Section XI of the ASME de and to the National Board Inspection Code "NR" rules.
Na	
	ional Board Certificate of Authorization No. 33 to use the "NR stamp expires SEPT, 26, 20 05
	ional Board Certificate of Authorization No.       33       to use the "NR stamp expires SEPT. 26, 20 05         ional Board Certificate of Authorization No.       33       to use the "NR stamp expires SEPT. 26, 20 05         ional Board Certificate of Authorization No.       93       ional State of Certificate of Certicate of Certificate of Certificate of Certi
	as JUNE 20, 20 03       Signed       FENOC-PNPP       QE         (name of repair organization)       (authorized representative)       QE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
Dat	Be JUNE 20, 20 03       Signed       FENOC-PNPP       Getter (authorized representative)       QE         (name of repair organization)       (authorized representative)       QE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         THOMAS       G.       LAPS         ,holding a valid commission issued by The National Board of Boiler and Section (Commission issued by The National Board of Boiler and Section (Commission issued by The National Board of Boiler and Section (Commission issued by The National Board of Boiler and Section (Commission issued by The National Board of Boiler and Section (Commission issued by The National Board of Boiler and Section (Commission issued by The National Board of Boiler and Section (Commission issued by The National Board of Boiler and Section (Commission issued by The National Board of Boiler and Section (Commission issued by The National Board of Boiler and Section (Commission (Commission issued by The National Board of Boiler and Section (Commission (
Dat 1,	Be JUNE 20, 20 03       SignedFENOC-PNPP (authorized representative)       QE         (name of repair organization)       (authorized representative)       QE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         THOMAS       G. LAPS, holding a valid commission issued by The National Board of Boiler an ssure Vessel Inspectors and certificate of competency issued by the jurisdiction of
Dat I, _ Pre and	Be JUNE 20, 20 03       SignedFENOC-PNPP (authorized representative)       QE (title)         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         THOMAS G. LAPS
Dat I, _ Pre and ins(	Be JUNE 20, 20 03       SignedFENOC-PNPP       QE         (name of repair organization)       (uithorized representative)       QE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION       (uithorized representative)       (uithorized representative)         THOMAS       G.       LAPS, holding a valid commission issued by The National Board of Boiler and Ssure Vessel Inspectors and certificate of competency issued by the jurisdiction of       OHIO
Dat I, Pre and ins(	Be JUNE 20, 20 03       Signed       FENOC-PNPP       Gettine       Gettine         (name of repair organization)       (title)       (title)         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         THOMAS G. LAPS
I, Preand insp the Sec	Be JUNE 20, 20 03       Signed       FENOC-PNPP       Getter (uither representative)       Getter (uither)         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         THOMAS 6. LAPS
I, _ Preance insp the Sec By	Be JUNE 20, 20 03       Signed       FENOC-PNPP       Gettine representative)       Gettine representative)         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         THOMAS       G.       LAPS       ,holding a valid commission issued by The National Board of Boiler ar         ssure Vessel Inspectors and certificate of competency issued by the jurisdiction of       OHIO         I employed by       HSB CT.       of       HARTFORD, CONN         best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with thin XI of the ASME Code and the National Board Inspection Code "NR" rules.       signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
I, _ Preamong insp the Second	DUNE 20, 20 03       Signed
I, _ Preamins the Sec By	Building and state that to best of my knowledge and belief, this repair, modification or replacement described in this report on the state that to best of my knowledge and belief, this repair, modification or my employer makes any warranty, expressed or implied, cerning the work described in this report. Furthermore, neither the undersigned nor my employer makes any warranty, expressed or implied, cerning the work described in this report. Furthermore, neither the undersigned nor my employer makes any warranty, expressed or implied, manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection
I, _ Preamins the Sec By	Be JUNE 20, 20 03       Signed

1821-345192052

۰.

2

.

-. .....

\* Corrected report

Manufactured by	G. Dik	kers & Co. N	V. Hengel	lo (0)	The N	etherlan	ls	
Manufactured for	Genera	merectric;	San Jose	te Catert	ornia	4.		
Location of Install	etico Perry I	North Perry	ss of Purchaser	or Owner)			``````````````````````````````````````	
		6/125.04:03"		35			1978	
(CRN)	G471	(Drawing No.)		(Nat'L E	Ird. No.1		(Year Built)	
Valve	Iodel No., Saries No.	Relief	Identifyin	g Nos		Certificate Ho	Ider's Serial	No.)
Si Si	efety, Safety Relief; P				· 		104	
Orifice Size	4_84"	Nominal Inlet	Size8"	inch		Outlet Siz	e <u>10"</u>	nch
				·			585	
Set Pressure (PS) Stamped Capacity		lbs/hr @		Tempera Chemi		Blowdown		8 0
• • • • • • • • • • • • • • • • • • • •	Sat. Steam	Ibs/hr @ 23		76 Overpr	essure	DIOWGOWII	975	
tydrostatic Test (		23	50	Outlet	Anolia	able to valves		stems only
Pressure Retaining	1 Pieces	<b>a .</b>		•			-	••••
	·	Serial No. or Identification	·	;			Specification e or Grade	
Sođy	08.05.8	R2 ·			A 352			
Sonnet or Yoke	08.24.8			5	A 352	LCB		· ·
Support Rods								
iozzie	AEU 062			-	A-350	-		
lisc	58.52.7	18	······································		•••	CF3A		
pring Washers	26.30.95	-40 .				Mo V 67	· · · · · · · · · · · · · · · · · · ·	
djusting Screw	AFU 071	AME 023		-		F 316		u1-10.0
pindle	AEW 008			<del></del>	-504-	74 type		
pring								
olting	AVT/AJR/	AKA/AJJ/ALR		<u>S</u>	<u> 193</u>	-B7/SA 19	<u>94-7/SA</u>	<u>194-2H</u>
abec Riecess	_AMR/AUY/							·
Liner	55.07.8					C F3A		
Cover	58.46.7	sn 6	·			CF8M	<i>:</i>	
Vent. Pipe	AKE 002				105	-	·	
Flanges	AFV_029_/	AFV 004		<u> </u>	105			
	le diam. valv le length val		0 mm (18. 2 mm (64.					•
			:	•		-		
		•		•				•.
		•		•				•
-			•			•	<b>.</b> .	• .
				÷	1			
		•						•

(10/77)

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

ł

FORM NV-1 (Back)

:

•

·

١

CERTIFICATE OF COMPLIANCE	i
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	<u>/</u> 6
Our ASME Certificate of Authorization No 1800 to use the(NV)	
symbol expires	

CERT	TIFICATION OF DESIGN	
Design information on file at Stress analysis report (Class 1 only) on file at	General Electric an General Electric an	nd Perry II nd Perry II
Design specifications certified by ' PE State Ca I-1 Forni a	Boyd P. Brooks Beg. No.	13655
Stress report certified by E StateCalifornia/Illinois	Reg. No Robert L. Weiss	M 14921/62-25/49
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.
ofLong Grove III have inspected the pump, or valve, described in this Data Report on
28-11, 19 _78_ and state that to the best of my knowledge and belief, the N Certificate Holder has
constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.
By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning
the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any
manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

and equipment described in this bata report Furthering	he, neutrer the inspector for the chiptoper shak be hebre in st
manner for any personal injury or property damage or a	I loss of any kind arising from or connected with this inspection
Date $6 - 26$ 1981. Signed $14$ $12$ $12$	Commissions NB 4805
{Inspectori	(Nat'l. Bd., State Prov. and No.)

1B21-346	
----------	--

N	IS-2/	NR-1 OWNE	R'S REPOR		REPAIR	RS OR		NTS
PNPP No.	9308 R	ev. 9/11/00						NQI-1741
1. Owne	er:	FIRST	ENERGY CORP.				Date <u>6-20-03</u>	
		10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2
2. Plant	:		ear Power Plant (F					
		10 Center F	Road, Perry, Ohio 4	4081	<sup>*</sup>		<u>WO 01-17352-00</u>	
							(Repair Org. P.O. N	o., etc.)
3. Work	Perfo	rmed By: <u>FIRSTEI</u>	NERGY Nuclear Op	erating Con	pany PNPP		Type Code Symb	ol Stamp <u>NR</u>
		<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No.	33
							Expiration Date 9	-26-05
4. Identi	ificatio	n of System: <u>1B21</u>	I NUCLEAR BOIL	ER PROC	<u>ESS INSTR</u>		ATION	<u></u>
5. (a) A	oplicab	le Construction Co	ode: ASME SECTI	ON III NB			,19 <u>74</u> Editio	on
	-		NAME/SECT	ION/DIVISIC				44.5
	<u>728, N</u>	<u>R</u> 19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	<u>224-1,N22</u>	5, <u>N3,N41</u>	<u>3,N71-9,N71-11,16</u>	44-5
			or repairs, modifica	ations, or r	eolacemen	ts: 1974	WINTER 75	*
						Edi	ition Addenda	Code Case(s)
(c) A	SME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u> Edi	ition Addenda	<u>N/A</u> Code Case(s)
(d) A	pplicat	ole Edition of Secti	on XI Utilized for F	Repairs, M	odification,	or Replac	ements:	
1	9 <u>89</u> ,	EDITION		ddenda e Case(s)	<u>N/A</u>	-		
(e) D	esign	Responsibilities <u>F</u>	IRSTENERGY NU		PERATING	COMPA	NY PNPP	
6. Identi	fication	n of Components F	Repaired, Modified	, or Replac	cement Co	nponents		1 10117
	ne of onent	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
				No.			or Modification	Stamped
PIPIN SYSTI		GENERAL ELECTRIC	1821	64084	N/A	1985	REPLACEMENT	YES
				1			]	
					1			
						<u> </u>		
				<u> </u>		┨────		
		•	<u> </u>	<u> </u>				
7. Desc USING (	nption ( 1) NEV	of Work: <u>REMOVE</u> <u>V_1-5/8-8 INLET \$</u>	ED VALVE S/N 16 STUDS HEAT CO	<u>0896 AND</u> DE Z4K ,A	ND (12) NO	<u>:D VALVE</u> EW 1-5/8-	<u>5/N 160857 @ 18</u> 8 NUTS HEAT CO	DE D284.
8. Test	Condu	cted: Hydrostatic	Pneuma	tic- 🔲	Nominal Op	-	_	er- 🗖
Press	ure <u>1(</u>	) <u>25 </u> psi Te	st Temperature 1	30	degrees F	Code	Case(s) <u>N/A</u>	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 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, <u>JOHN W. MESSENGER</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. 33 to use the "NR stamp expires SEPT. 26, 20 05
Date JUNE 20, 20 03 Signed FENOC-PNPP QE (name of repair organization) (authorized representative) (litle)
I
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by H.S.B. Ct. of <u>HARTFORD</u> (ONN. have
inspected the repair, modification or replacement described in this report on July 28 20 03 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, poither the undersigned and my employee makes any unmarks, supposed as implied
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage of loss of any kind arising from or connected with this inspection.
Date July 28, 20 03 Signed Thomas House Commissions NB 9330 N I A Communication (Inspector) (Inspector) Commissions NB 9330 N I A Communication (National Board (Include endorsements), and jurisdiction, and no.)

1821-346 PQ 20FZ

Manufactured by	G. Dikkers & Co. NV. Heno	elo (0) The Netherlands
	(Name and Address of N Certif	icate Holder)
Manufactured for	General Electric, San Jos	te, Ld1110/111d
Location of Installation	Perry I North Perry Onio	······································
	G 471-6/125.04.03 rev. 6	32 1978
(CRN)	(Denving No.)	(Nat'l. Brd. No.) (Year Built)
Valve(Mode		ring Nos. 160857 (N. Certificate Holder's Serial No.)
Туре	No., Series No.) Safety/Relief	
Safety	Safety Relief; Pilot; Power Actuated	8" <u>10</u> "
Q1111/04 Q168	inch Nominal Inlet Size	inch Outlet Size inch
<u></u>	1180	585
Set Pressure (PSIG)	017060 3000	ed Temperature *
Stamped Capacity		- % Overpressure blowdown (PSIG)
Hydrostatic Test (PSIC	Z 1011	Outlet
Pressure Retaining Pie		(Applicable to valves for closed systems only)
	Serial No. or	Material Specification
	Identification	Incl. Type or Grade
Body	13.45.7 sn 2	SA 352 LCB
Bonnet or Yoke	11.12.8 sn 1	SA 352 LCB
Support Rods		
Nozzle	AEU 003	SA 350 LF2
NOTTIG	61.03.8 2A	SA 351 CF3A
Disc		
	26.30.95-52	45 Cr Mo V 67
Disc Spring Washers	26.30.95-52 AFU 040 AFU 006	SA 182 F 316
Disc Spring Washers Adjusting Screw	26.30.95-52	
Disc	26.30.95-52 AFU 040 AFU 006 AEW 002	SA 182 F 316 A 564-74 type 630 cond. H1100
Disc Spring Washers Adjusting Screw Splndle Spring Bolting	26.30.95-52 AFU 040 AFU 006 AEW 002 AVT/AJR/AKA/AJJ	SA 182 F 316
Disc Spring Washers Adjusting Screw Splndle Spring Bolting Stiller Places	26.30.95-52 AFU 040 AFU 006 AEW 002 AVT/AJR/AKA/AJJ ALR/AUY/AMR/AJM/AJL	SA 182 F 316         A 564-74 type 630 cond. H1100         SA 193-B7/SA 194-7/SA 194-2H
Disc Spring Washers Idjusting Screw Splndle Spring Rotting KLARES LARES	26.30.95-52 AFU 040 AFU 006 AEW 002 AVT/AJR/AKA/AJJ ALR/AUY/AMR/AJM/AJL 58.06.8 sn 2	SA 182 F 316         A 564-74 type 630 cond. H1100         SA 193-B7/SA 194-7/SA 194-2H         SA 351 CF3A
hisc ipring Washers idjusting Screw pindle pring otting ft/for Places	26.30.95-52 AFU 040 AFU 006 AEW 002 AVT/AJR/AKA/AJJ ALR/AUY/AMR/AJM/AJL	SA 182 F 316         A 564-74 type 630 cond. H1100         SA 193-B7/SA 194-77/SA 194-2H

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is  $8-1/2^{\circ} \times 11^{\circ}$ , (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 CON	IPLIANCE	
We certify that the statements made in this report are correct and the of the ASME Code for Nuclear Power Plant Components, Section III, D. Code Case No. N.A. Date <u>81.06.25</u> Signed <u>G. Dikkers &amp; Co NV</u> (N Certificate Holder) Our ASME Certificate of Authorization No. <u>Ist. July 1980</u> (Date)	that this valve conforms to the rules of construction Div. 1., <u>1974</u> Edition, Addenda <u>Stim. '76</u> , (Date) by <u>History</u> 1806 to use the <u>NV</u> (NV)	
		-

(	CERTIFICAT	ion of de	SIGN			**			
Design information on file at	General	Electric	and	Perry		•			
Stress analysis report (Class 1 only) on file at	General	Electric	and	Perry	ш				
Design specifications certified by!	Boyd P.	Brooks		<u> </u>				<u>.</u>	
Design specifications certified by PE State		Reg. No.		13655		•			
Stress report certified by' California/1111nois	Robert	Reg No							
PE StateCalifornia/1111nois		Reg. No		M 1492	1/62	-25749	) :		
•		-							

Signature not required-list name only.

;

### CERTIFICATE OF SHOP INSPECTION

•

۰.

...

またい たい ちょうちょう

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 <u>Long Grove III</u> have inspected the pump, or valve, described in this Data Report on <u>24-11</u> , 19 <u>78</u> 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 <u>6-26</u> <u>1981</u> . Signed <u>9.00</u> Stores Commissions NB 4805
(Inspector) [Nat'l. Bd., State Prov. and No.)

11	82	1	-34	4	7
----	----	---	-----	---	---

	NIS-2	NR-1 OWNE	<b>R'S REPOR</b> quired by the Provi					ENTS			
P	NPP No. 9308 R							NQI-1741			
1	. Owner:	FIRST	ENERGY CORP.				Date 6-20-03				
	_		Road, Perry, Ohio	44081			Sheet 1 of	2			
2	. Plant:	Perry Nucl	ear Power Plant (F	NPP)			Unit <u>ONE</u>				
l	<del></del>	<u>WO 01-17355-0</u>	00,001R/0								
	(Repair Org. P.O. No., etc.)										
3	3. Work Performed By: _FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp										
		<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>11</u>		Authorization No	33			
							Expiration Date	9-26-05			
4	. Identificatio	n of System: <u>1B2*</u>	I NUCLEAR BOIL	ER PROC	ESS INSTR						
5	(a) Applicat	e Construction Co	de ASME SECTI				,197 <u>4</u> Editi	on			
ľ	. (a) i phioac		NAME/SECT	ION/DIVISIC	N/CLASS						
	<u>WINTE</u>	R 19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	1224-1,N22	5, <mark>N3,N41</mark>	3,N71-9,N71-11,10	644-5			
	<u>1728, N</u>							<u> </u>			
ĺ	(b) Constru	iction Code used for	or repairs, modifica	ations, or r	eplacement		tion <u>WINTER 7</u>	5 <u>*</u> Code Case(s)			
l	(c) ASME (	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u>	<u>N/A</u>	<u>N/A</u>			
	(d) Applicat		an Mithile adda P		dification		tion Addenda	Code Case(s)			
		ble Edition of Secti		ddenda	N/A	or Replac	ements:				
			. Cod	e Case(s)							
		Responsibilities <u>F</u>					NY PNPP				
P	·	n of Components F			<del></del>	<u> </u>	Banair	ASME			
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	Code Stamped			
	PIPING	GENERAL	1B21	64084	N/A	1985	REPLACEMENT	YES			
	SYSTEM	ELECTRIC		ļ				<b></b>			
					· · ·						
					<u> </u>		<u></u>	†			
7	Description										
U	SING (4) NEV	of Work: <u>REMOVE</u> N 1-5/8-8 INLET S	STUDS HEAT COL	DE Z4K ,A	ND (11) NE	W 1-5/8-	B NUTS HEAT CO	DE D284,			
A	ND (1) HEAT	CODE TCD.									
	Tool Condu	tod. that a tri						~ []			
Ö.		cted: Hydrostatic			•		ressure- 🛛 🕔 Oth	er- 🛄			
	Pressure 1025 psi Test Temperature 130 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 No33 to use the "NR stamp expires SEPT. 26, 20 05         Date JUNE 20, 20 03 Signed FENOC-PNPP (authorized representative)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION          I

----

.....

REPORT NO. P0059-009

. . . . . . . . . . . .

.

------

2

1821	-347	PBZ	of

•	×	Co	rı	re	ct	:e	d	r	e	po	<b>r</b> 1	t
---	---	----	----	----	----	----	---	---	---	----	------------	---

(Name and Address of N Certific General Electric, San Jose (Name and Address of Purchase Perry 11 North Perry Ohio G 471-6/125.04.03 rev. 0 (Drawing No.)	ate Holder) , <u>California</u> er or Owner) 65 1978
Perry 11 North Perry Ohio G 471-6/125.04.03 rev. 6	er or Owner)
G 471-6/125.04.03 rev. 6	
<u>6 4/1-0/125.04.03 rev.</u> 0	65 1978
(Denuing No.)	
	(Nat'l. Brd. No.) (Year Built) no. Nos. 160866
NUR/ILLS VI	ng Nos. 100000 (N Certificate Holder's Serial No.)
o., Series No.) Safety/Relief	IN CERTIFICATE NOIDER'S BETTAL NUL
elery Relief; Pilot; Power Actuated	
	Oddlet Size
<b>አ</b>	inch
1165	585
3	d Temperature
	_% Overpressure blowdown (rsid)
iniet	Outlet
<b>S</b>	(Applicable to valves for closed systems only
Serial No. or ,	Material Specification
Identification	Incl. Type or Grade
11 12 9 1	SA 352 LCB
	SA 352 LCB
<u>14.32.0 5n 1</u>	2M 202 LCD
A NL 011	SA 350 LF2
	<u>SA 350 LF2</u> SA 351 CF3A
	45. Cr Mo V 67
	SA 182 F 316
	A 564-74 type 630 cond. H1100
	A 504-74 Lype 650 Colds 11100
AVE /ANY /ANE /ALD/	SA 193-B7/SA 194-7/SA 194-2H
	<u> </u>
	SA 351 CF3A
53.28.8 sn 10	SA 351 CF8M
AKE 059	SA 105
	Bay Relief; Pilot; Power Actueted       8         1165       3         05739       Ibs/hr       9         Set Steam       2350         Inlet       2350         st Steam       2350         Inlet       2350         AJW 011       11.12.8 sn 1         14.32.8 sn 1       14.32.8 sn 1         AJW 011       11.12.8 sn 1         AJW 011       11.12.12.12         AJW 011       11.12.12         AJW 011       11.12.12         State 04.8       11.12         AFU 12.3 AME 004       11.12         AYE/ANY/AVS/ALR/       11.12         AYE/ANY/AVS/ALR/       11.12         AYE/ANY/AJM/AJL/AJJ       11.12

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

(10/77)

• •

. '

.

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

### FORM NV-1 (Back)

3

· CE	RTIFICATE OF COMPLIANCE
of the ASME Code for Nuclear Power Plant Corr Code Case No. <u>N.A.</u> Date <u>81.06_25</u> Signed <u>G. Dikk</u> (N.C. Our ASME Certificate of Authorization No.	ertificate Molder)
symbol expires <u>lst. July 1980</u> (Date)	
CE	RTIFICATION OF DESIGN
Design information on file at	General Electric and Perry 11
Stress analysis report (Class 1 only) on file at _	General Electric and Perry LL
Design specifications certified by	Boyd P. Brooks
PE State California	Reg. No 13655
tress report certified by	Robert L. Weiss
PE State California/Illinois	Reg. No. <u>M 14921/62-25749</u>
<sup>1</sup> 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 ofOhio_ PA and employed byKemper_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.

	-	hoom
Date <u>6-26</u> 1981 A. Signed <u>1. W.</u>	Commissions NB 4805	
(inspector) .	(Nat'l. Bd., State Prov. and No.)	

|B2|-348

	NIS-2	/NR-1 OWNE						ENTS
P	NPP No. 9308 R		quired by the Provis	sions of th	e ASME Co		on XI	NQI-1741
1	. Owner:	FIRST	ENERGY CORP.				Date <u>8/6/03</u>	
			Road, Perry, Ohio	44081			Sheet 1 of	1
2	. Plant:		ear Power Plant (P				Unit <u>one</u>	
	_	10 Center R	Road, Perry, Ohio 4	4081			<u>wo 03-2255</u> (Repair Org. P.O. N	lo., etc.)
,	Mark Dorfo						Time Code Sime	al Otama ND
3	. WORK Perior	rmed By: <u>FIRSTEN</u>	NERGY Nuclear Ope enter Road, Perry, (				Type Code Symb Authorization No.	•
			Iller ruau, renye		<u>.</u>		Expiration Date §	
	Identification	f Dustamu Nuol	Deller Cuntom					<u>/////////////////////////////////////</u>
		n of System: <u>Nucle</u>			<u> </u>		<u> </u>	
5	. (a) Applicab	ble Construction Co	ode: ASME Section NAME/SECTI	1 III NB ION/DIVISIO	N/CLASS	<u></u>	,19 <u>74</u> Editio	no
	<u>Winter</u>	19 <u>75</u> A	Addenda Code	Case(s) <u>1(</u>	644-5,N413	<u>,N242,N2</u>	272,N282	
	(b) Constru	uction Code used fo	or repairs, modifica	ations, or re	eplacement		tion Addenda	N/A Code Case(s)
	(c) ASME (	Code Section XI ap	plicable for Inservi	ice Inspect	lion:	<u>1989</u> Edit	<u>N/A</u>	N/A Code Case(s)
	(d) Applicat	ble Edition of Section	on XI Utilized for R	tepairs, Mo	odification, c	or Replace	ements:	
	19 <u>89</u> ,	<u>N/A</u> 19 <u>N/A</u>		e Case(s)				
	(e) Design i	Responsibilities FI			rating Com	oany PNP	<u>٩</u>	
6	. Identification	n of Components R	lepaired, Modified,	, or Replac	ement Corr	ponents		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
	PIPING SYSTEM	PULLMAN POWER	1N27	89	N/A	<b>1985</b>	REPLACEMENT	YES
			'			, .		
			[]					
			·					<u>  </u>
				}				<del>  </del>
l		<u></u>	J	لــــــــــــــــــــــــــــــــــــ	لـــــــا ، ،	J	L	<u> </u>
7.		of Work: Test conr					16	C 8/8/03
8		ising E-7018 3/32" v cted: Hydrostatic			LV/L_/B			er- 🔲
υ.	Pressure <u>10</u>	•	st Temperature <u>68</u>		legrees F	-	Case(s) <u>N416-1</u>	
		F						

÷

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, <u>Michael J Tepsick</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 26 Sept., 20 05
Date <u>6 Aug.</u> , 20 <u>03</u> Signed <u>FENOC-PNPP</u> <u>Muth 1 Ziric</u> <u>QC</u> (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G Laps, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by <u>HSB_CT.</u> of <u>Hartford, Conn.</u> have
inspected the repair, modification or replacement described in this report on <u>AU6.6</u> , 20 <u>03</u> and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection. Date <u>AUG. 6</u> , 20 <u>03</u> Signed <u>Thornor Lornor</u> Commissions <u>NB 9330 "N" "I" "A" Ohio Comm.</u> ( <i>National Board (include endorsements),</i> <i>and jurisdiction, and no.</i> )

						1B21-	- 349
NIS-2	As re	R'S REPOR				REPLACEMI	ENTS NQI-1741
						Data 7/0/02	
1. Owner:		TENERGY CORP	44081			Date <u>7/9/03</u> Sheet 1 of	2
_	To center r	toau, reny, onic	44001				<u> </u>
2. Plant:	Perry Nucl	ear Power Plant (F	PNPP)			Unit <u>ONE</u>	
	10 Center F	Road, Perry, Ohio	44081			W.O. 99-7795R/ (Repair Org. P.O. N	
3. Work Perfo	rmed By: _FIRSTE	NERGY_Nuclear Op	erating Con	npany PNPP	2	Type Code Symt	ol Stamp <u>NR</u>
	10 Ce	enter Road, Perry,	Ohio 4408	<u>:1</u>		Authorization No.	33
						Expiration Date	9/26/2005
4. Identification	n of System: <u>1B2</u>	I NUCLEAR BOIL	ER ,PROC	ESS INST	RUMENT	ATION	
5. (a) Applicat	e Construction Co	vde: ASME Sectio	n III NB			,19 <u>74</u> Editi	on
	ele Construction Co	NAME/SECT	ION/DIVISIO	N/CLASS		Loui	511
<u>Winter</u> 5,N-416-1	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	<u>-32-4,N-24</u>	<u>2,N-272,I</u>	<u>N-282,N-241,N-413</u>	3,1728,1644-
(b) Constru	ction Code used for	or repairs, modifica	ations, or r	eplacemen		Winter 75 ition Addenda	N/A Code Case(s)
(c ) ASME (	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u> Ed	ition Addenda	<u>N/A</u> Code Case(s)
(d) Applical	ble Edition of Secti	on XI Utilized for F	Repairs, M	odification,	or Replac	ements:	
19 <u>89</u> ,	<u>N/A</u> 19 <u>N/A</u>	Addenda <u>N/A</u>	e Case(s)				
(e) Design	Responsibilities <u>F</u>			ating Com	bany PNP	<u>P</u>	
6. Identification	n of Components F	Repaired, Modified	, or Replac	ement Cor	nponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1821	64084	N/A	1985	REPLACEMENT	YES
		· - · • • • · ·		÷	·	·	
			1				
			<u> </u>			<u> </u>	<u> </u>
7. Description	of Work: <u>REPLAC</u>	ED_valve 1B21F0	002 with a	2" Hermay	aive SN#	93AVX. Replaced	2" seamless
pipe HT#Y4883	3 utilizing weld roc	E7018 HT# C406	618, and EF	70S-2 HT	# CP7808	•	
8. Test Conduc	cted: Hydrostatic	- D Pneuma	tic- 🔲 🕇	Nominal Op	erating P	ressure- 🛛 Oth	er- 🗋
Pressure 10		st Temperature 1	30degrees	F	Code	Case(s) <u>N-416-1</u>	

• . . . .

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks: <u>NONE.</u>
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>DAVID K. ASKEW</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. 33 to use the "NR stamp expires <u>26 Sept.</u> , 20 <u>05</u>
Date 7/9 20 03 Signed FENOC-PNPP Valued K. Uslues (18 C
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 ofQHIO
and employed by H.S.B. CT of <u>HARTFORD</u> (ONN have
inspected the repair, modification or replacement described in this report on $\underline{)vvv}$ 18 20 $\underline{03}$ 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 July 18, 20 03 Signed The most dispector (inspector) (Inspector) (NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (Inspector) (National Board (include endorsements), and jurisdiction, and no.)
·

1B21-349

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES Page 2072 As Required by the Provisions of the ASME Code, Section III, Div. 1

Pg. 1 of \_1

. Manufactured by	FLOWSERV	E CORPORATI	(ON, 1900 S. Saunder Vidress of N Certulcate Holder)	s St., Raleig	h, NC 27603	
Manufactured for	ENERGY CO	•		. <u></u>		
. Location of Installation _CEI,		NT, NORTH PE	RRY, OH 44801			
Pump or Valve	Valve	(N Nominal I	ame and Address)	Outlet S		2" ich)
(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) Yea Built
(1) 15014MLPT1	92AVX		ACD-31602625 / 5	1	N/A	2003
(2) 15014MLPT1 (3) (4) (5)	93AVX	N/A	ACD-31602625 / 5	1	N/A	2003
(6) (7) (8) (9)				•		
2" HERMAVALVE	ETS ASME III		service for which equipment was desig	ined)	21688	
Design Conditions23		psi70(	0 •F or Valve Pres	sure Class	1500	(1)
Cold Working Pressure	3600	psiat 100 °F.				
Pressure Retaining Pieces Mark No.		Material Spec. No.	Manufactu	ne	Remark	S
(a) Castings H244		A732 GR21	STAINLESS F	OUNDRY	DISK	
(b) Forgings KD6 17174		SA105 SA696 GRC	INTERST DUBOSE EN		BODY	the second s
•						
		· · · · · · · · · · · · · · · · · · ·				:

(1) For manually operated valves only

<sup>\*</sup>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.

## ۰. FORM NPV-1 (Back)

# Pg. 2 of 2

٠

Valve S/N <u>92AVX</u> through 93AVX

Mark No.	Mal	erial Spec. No.	Manufacturer	Remarks
(c) Bolting				
- <u></u>				
• <del>••••••••••••••••••••••••••••••••••••</del>		·····	· · · · · · · · · · · · · · · · · · ·	
·				
<del></del>				
		<u></u>		
····				
			·····	
·····				
(d) Other Parts				
• <u> </u>				
		<u> </u>		
···				
			•	
			<u> </u>	
		<u> </u>	]	+
			<u> </u>	
			I	<del></del>
Hydrostatic test 5400			3900 psi.	
		ERTIFICATE OF		
the ASME Code for No	uclear Power Plant		_	to the rules of construction 1974
the ASME Code for No. Ienda WINTER '75	uclear Power Plant , Code Case No.			
the ASME Code for No cenda WINTER '75 ned Flowscrve C (N Centricate	uclear Power Plant , Code Case No.  Corporation = Holder)	Components. Section N-30 by	n III, Div. 1., Edition , Date –	1974 2/18/03 well
the ASME Code for No enda <u>WINTER '75</u> ned <u>Flowscrve C</u> (N Centricule	uclear Power Plant , Code Case No.  Corporation = Holder)	Components. Sectio	n III, Div. 1., Edition , Date , Date , Date , Date , Symbol expire	1974 2/18/03 s 11-26-03
the ASME Code for No enda WINTER 475 red Flowscrve C (N Centificate of Authorizat	uclear Power Plant , Code Case No. Corporation Holder) tion No. N-	Components. Section N-30 by 1562 to use the	n III, Div. 1., Edition , Date – , Date – , Date – , Date – , ND e, Symbol expire	1974 2/18/03 well
the ASME Code for No enda WINTER '75 red Flowscrve C (N Centrate ASME Certificate of Authorizat	uclear Power Plant , Code Case No. Corporation Holder) tion No. N-	Components. Section N-30 by 1562 to use the CERTIFICATION	n III, Div. 1., Edition , Date , Date , Date , Date , Date , Symbol expire , N of DESIGN	1974 2/18/03 s 11-26-03 (Date)
the ASME Code for No enda <u>WINTER 475</u> red <u>Flowscrve C</u> (N Centricate ASME Certificate of Authorizat Design Information on fil	uclear Power Plant , Code Case No. Corporation Holder) tion No. N-	Components. Section N-30 by 1562 to use the CERTIFICATION	n III, Div. 1., Edition Date N symbol expire (N) OF DESIGN SERVE CORPORATION, RA	1974 2/18/03 
the ASME Code for No enda WINTER '75 red Flowserve C (N Centrate ASME Certificate of Authorizat Design information on fil Stress analysis report (Clas	uclear Power Plant , Code Case No. Corporation Holder) tion No. N- e at e at s 1 only) on file at	Components. Section N-30 by 1562 to use the CERTIFICATION	n III, Div. 1., Edition Date N STRVE CORPORATION, R/ FLOWSERVE CORPO	1974 2/18/03 s 11-26-03 (Date) ALEIGH, NC RATION
the ASME Code for No enda WINTER '75 red Flowserve C (N Centreste ASME Certificate of Authorizat Design Information on fil Stress analysis report (Clas Design specifications certifie	uclear Power Plant , Code Case No. Corporation Holder) tion No. N- e at s 1 only) on file at d by (1)	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS	n III, Div. 1., Edition Date N symbol expire N OF DESIGN SERVE CORPORATION, RA FLOWSERVE CORPOR FRANCIS C ROSCH JE	1974 2/18/03 s 11-26-03 (Date) ALEIGH, NC RATION
the ASME Code for No enda WINTER '75 ned Flowserve C (N Centreate ASME Certificate of Authorizat Design Information on fil Stress analysis report (Class Design specifications certifie PE State	uclear Power Plant , Code Case No. Corporation Holder) tion No. N- e at e at s 1 only) on file at	Components. Section N-30 by 1562 to use the CERTIFICATION	n III, Div. 1., Edition Date N STRVE CORPORATION, R/ FLOWSERVE CORPO	1974 2/18/03 s 11-26-03 (Date) ALEIGH, NC RATION
the ASME Code for No enda WINTER '75 ned Flowserve C (N Centrate ASME Certificate of Authorizat Design information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1)	uclear Power Plant , Code Case No. Corporation Holder) tion No. N- e at s 1 only) on file at d by (1)	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No.	n III, Div. 1., Edition Date N symbol expire N OF DESIGN SERVE CORPORATION, RA FLOWSERVE CORPOR FRANCIS C ROSCH JE	1974 2/18/03 s 11-26-03 (Date) ALEIGH, NC RATION
the ASME Code for No enda WINTER 475 ned Flowscrvc C (N Centration ASME Certificate of Authorizat Design Information on fil Stress analysis report (Class Design specifications certifie PE State	uclear Power Plant , Code Case No. Corporation Holder) tion No. N- e at s 1 only) on file at d by (1)	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS	n III, Div. 1., Edition Date N symbol expire N OF DESIGN SERVE CORPORATION, RA FLOWSERVE CORPOS FRANCIS C ROSCH JF 002855-E	1974 2/18/03 s 11-26-03 (Date) ALEIGH, NC RATION
the ASME Code for No enda WINTER '75 ned Flowserve C (N Centrate ASME Certificate of Authorizat Design Information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State	uclear Power Plant , Code Case No. Corporation FHolder) tion No. N- e at s 1 only) on file at d by (1) PA NC	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No.	n III, Div. 1., Edition Date N symbol expire N OF DESIGN ERVE CORPORATION, RA FLOWSERVE CORPO FRANCIS C ROSCH JE 002855-E SL ADAMS III	1974 2/18/03 s 11-26-03 (Date) ALEIGH, NC RATION
the ASME Code for No lenda WINTER '75 ned Flowserve C (N Centrate ASME Certificate of Authorizat Design Information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State	uclear Power Plant , Code Case No. Corporation Holder) tion No. N- e at s 1 only) on file at d by (1) PA  NC ne only.	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No.	n III, Div. 1., Edition Date Date N symbol expire M OF DESIGN SERVE CORPORATION, RA FLOWSERVE CORPO FRANCIS C ROSCH JE 002855-E SL ADAMS III 4187	1974 2/18/03 s 11-26-03 (Date) ALEIGH, NC RATION
the ASME Code for No lenda WINTER '75 ned Flowserve C (N Centrate ASME Certificate of Authorizat Design information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State Signature not required. List name	uclear Power Plant , Code Case No. Corporation Holder) tion No. N- e at s 1 only) on file at d by (1) PA  NC me only. CER	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No. Reg. No.	n III, Div. 1., Edition Date Date N symbol expire M OF DESIGN BERVE CORPORATION, RA FLOWSERVE CORPO FRANCIS C ROSCH JE 002855-E SL ADAMS III 4187 DP INSPECTION	1974 2/18/03 
the ASME Code for No denda WINTER '75 ined Flowserve C (N Centrate r ASME Certificate of Authorizat Design Information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State Signature not required. List name e undersigned, holding a valid co	uclear Power Plant , Code Case No. Corporation Holder) tion No. N- e at s 1 only) on file at d by (1) PA  NC me only. CER	Components. Section N-30 by 1562 to use th CERTIFICATION FLOWS Reg. No. Reg. No.	n III, Div. 1., Edition Date Date N symbol expire N OF DESIGN SERVE CORPORATION, R/ FLOWSERVE CORPO FRANCIS C ROSCH JF 002855-E SL ADAMS III 4187 DP INSPECTION ler and Pressure Vessel Inspectors	1974 2/18/03 S 11-26-03 (Date) ALEIGH, NC RATION Cate of Province of North
the ASME Code for No denda WINTER '75 ined Flowscrvc O (N Centration r ASME Certificate of Authorizat Design Information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State Signature not required. List name e undersigned, holding a valid co <u>ròlina</u> and employed by	uclear Power Plant , Code Case No. Corporation Fiolder) tion No. N- e at s 1 only) on file at d by (1) PA NC ne only. CER commission issued by the	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boi HSI	n III, Div. 1., Edition Date Date N symbol expire N OF DESIGN ERVE CORPORATION, RA FLOWSERVE CORPO FRANCIS C ROSCH JR 002855-E SL ADAMS III 4187 DP INSPECTION ter and Pressure Vessel Inspectors B CT of Hart	1974 2/18/03 S 11-26-03 (Date) ALEIGH, NC RATION Cate of Province of North thord Connecticut have
the ASME Code for No lenda WINTER '75 ned Flowserve C (N Centrester ASME Certificate of Authorizater ASME Certificate of Authorizater Design information on fil Stress analysis report (Class Design specifications certifier PE State Stress analysis certified by (1) PE State Signature not required. List name e undersigned, holding a valid cor rolina and employed by ected the pump, or valve, descripticater Holder has constructed to	uclear Power Plant         , Code Case No.         Corporation         FHolder)         tion No.         e at         s 1 only) on file at         d by (1)         PA         NC         ne only.         CER         ommission issued by the         ibed in this Data Rephis pump, or valve, in	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No. Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boil Mational Board of Boil Mational Board of Boil accordance with ASME	n III, Div. 1., Edition Date Date N Symbol expire N OF DESIGN BERVE CORPORATION, RA FLOWSERVE CORPO FRANCIS C ROSCH JF 002855-E SL ADAMS III 4187 DP INSPECTION ter and Pressure Vessel Inspectors 3 CT of Hart Code, Section III.	1974 2/18/03 S 11-26-03 (Date) ALEIGH, NC RATION Cate and the State or Province of North thord Connecticut have test of my knowledge and belief, the h
the ASME Code for No lenda WINTER '75 ned Flowserve C (N Centreate ASME Certificate of Authorizat Design information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State Signature not required. List name a undersigned, holding a valid co ròlina and employed by etted the pump, or valve, descer ificate Holder has constructed the lagning this certificate neither the	uclear Power Plant , Code Case No. Corporation FHolder) tion No. N- e at s 1 only) on file at d by (1) PA NC ne only. CER ommission issued by the ribed in this Data Rep his pump, or valve, in a Inspector nor his emp	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No. Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boil met on 2 / /// accordance with ASME boyer makes any warrar	n III, Div. 1., Edition Date Date N Symbol expire N OF DESIGN DERVE CORPORATION, RA FLOWSERVE CORPO FRANCIS C ROSCH JF 002855-E SL ADAMS III 4187 DP INSPECTION ler and Pressure Vessel Inspectors 3 CT of Hart 1 0 7, and state that, to the to Code, Section III. My, expressed or implied, concerning	1974 2/18/03 S 11-26-03 (Date) ALEIGH, NC RATION Catelon ALEIGH, NC RATION Catelon ALEIGH, NC RATION Catelon Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Cont
the ASME Code for No lenda WINTER '75 ned Flowserve C (N Centreate ASME Certificate of Authorizat Design information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State Signature not required. List name a undersigned, holding a valid co rólina and employed by eted the pump, or valve, descer ificate Holder has constructed the laping this certificate neither the Report. Furthermore, neither the	uclear Power Plant         , Code Case No.         Corporation         FHolder)         tion No.         N-         e at         s 1 only) on file at         d by (1)         PA         NC         ne only.         CER         ommission Issued by the state of the sector nor his empire Inspector nor his	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No. Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boil met on 2 / /// accordance with ASME boyer makes any warrar	n III, Div. 1., Edition Date Date N Symbol expire N OF DESIGN BERVE CORPORATION, RA FLOWSERVE CORPO FRANCIS C ROSCH JF 002855-E SL ADAMS III 4187 DP INSPECTION ter and Pressure Vessel Inspectors 3 CT of Hart Code, Section III.	1974 2/18/03 S 11-26-03 (Daile) ALEIGH, NC RATION Call of the State or Province of North thord Connecticut have rest of my knowledge and belief, the h the equipment described in this s
the ASME Code for No denda WINTER '75 ined Flowserve C (N Centrate r ASME Certificate of Authorizat Design Information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State Signature not required. List nam e undersigned, holding a valid co rolina and employed by rected the pump, or valve, descer tificate Holder has constructed the aReport. Furthermore, neither the arising from or connected with the	uclear Power Plant         , Code Case No.         Corporation         FHolder)         tion No.         N-         e at         s 1 only) on file at         d by (1)         PA         NC         ne only.         CER         ommission Issued by the state of the sector nor his empire Inspector nor his	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No. Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boil met on 2 / /// accordance with ASME boyer makes any warrar	n III, Div. 1., Edition Date Date N Symbol expire N OF DESIGN DERVE CORPORATION, RA FLOWSERVE CORPO FRANCIS C ROSCH JF 002855-E SL ADAMS III 4187 DP INSPECTION ler and Pressure Vessel Inspectors 3 CT of Hart 1 0 7, and state that, to the to Code, Section III. My, expressed or implied, concerning	1974 2/18/03 S 11-26-03 (Daile) ALEIGH, NC RATION Call of the State or Province of North thord Connecticut have rest of my knowledge and belief, the h the equipment described in this s
the ASME Code for No denda WINTER '75 ined Flowserve C (N Centreate r ASME Certificate of Authorizat Design information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State Signature not required. List name e undersigned, holding a valid co <u>ròlina</u> and employed by pected the pump, or valve, descri tificate Holder has constructed the signing this certificate neither the	uclear Power Plant         , Code Case No.         Corporation         FHolder)         tion No.         N-         e at         s 1 only) on file at         d by (1)         PA         NC         ne only.         CER         ommission Issued by the state of the sector nor his empire Inspector nor his	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No. Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boil met on 2 / /// accordance with ASME boyer makes any warrar	n III, Div. 1., Edition Date Date N Symbol expire N OF DESIGN DERVE CORPORATION, RA FLOWSERVE CORPO FRANCIS C ROSCH JF 002855-E SL ADAMS III 4187 DP INSPECTION ler and Pressure Vessel Inspectors 3 CT of Hart 1 0 7, and state that, to the to Code, Section III. My, expressed or implied, concerning	1974 2/18/03 S 11-26-03 (Date) ALEIGH, NC RATION Catelon ALEIGH, NC RATION Catelon ALEIGH, NC RATION Catelon Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Contention Cont
the ASME Code for No denda WINTER '75 ined Flowserve C (N Centration r ASME Certificate of Authorizat Design information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State Signature not required. List name a undersigned, holding a valid co rolina and employed by bected the pump, or valve, descriticate Holder has constructed the signing this certificate neither the a Report. Furthermore, neither the a strising from or connected with the a 2, 1/B, 103	uclear Power Plant         , Code Case No.         Corporation         FHolder)         tion No.         N-         e at         s 1 only) on file at         d by (1)         PA         NC         ne only.         CER         ommission Issued by the state of the sector nor his empire Inspector nor his	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No. Reg. No. Reg. No. TIFICATE OF SHO the National Board of Boil accordance with ASME poloyer makes any warrant poloyer shall be liable in	n III, Div. 1., Edition Date Date N Symbol expire N OF DESIGN Der DESIGN Der CORPORATION, RA FLOWSERVE CORPOR FRANCIS C ROSCH JR 002855-E SL ADAMS III 4187 DP INSPECTION ler and Pressure Vessel Inspectors a SCT of Harr 1 0 3, and state that, to the to Code, Section III. ty, expressed or implied, concerning any manner for any personal injury of	1974 2/18/03 with an and the State or Province of North tford Connecticut have the equipment described in this s property damage or a loss of any
the ASME Code for No denda WINTER '75 med Flowserve C (N Centrate r ASME Certificate of Authorizat Design Information on fil Stress analysis report (Clas Design specifications certifie PE State Stress analysis certified by (1) PE State Signature not required. List nam e undersigned, holding a valid co rolina and employed by ected the pump, or valve, descertificate Holder has constructed the and employed by ected the pump, or valve, descertificate neither the a Report. Furthermore, neither the arising from or connected with the stress of	uclear Power Plant         , Code Case No.         Corporation         FHolder)         tion No.         N-         e at         s 1 only) on file at         d by (1)         PA         NC         ne only.         CER         ommission Issued by the state of the sector nor his empire Inspector nor his	Components. Section N-30 by 1562 to use the CERTIFICATION FLOWS Reg. No. Reg. No. Reg. No. TIFICATE OF SHO the National Board of Boil accordance with ASME poloyer makes any warrant poloyer shall be liable in	n III, Div. 1., Edition Date Date N Symbol expire N OF DESIGN DERVE CORPORATION, RA FLOWSERVE CORPO FRANCIS C ROSCH JF 002855-E SL ADAMS III 4187 DP INSPECTION ler and Pressure Vessel Inspectors 3 CT of Hart 1 0 7, and state that, to the to Code, Section III. My, expressed or implied, concerning	1974 2/18/03 with an and the State or Province of North tford Connecticut have the equipment described in this s property damage or a loss of any

···						1821.	- 350
	As re	R'S REPOR					
PNPP No. 9308 R	ev. 9/11/00			····			NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date <u>7/9/03</u>	
	10 Center I	Road, Perry, Ohio	44081			Sheet 1 of	2
2. Plant:	Perry Nuc	lear Power Plant (F	PNPP)			Unit <u>ONE</u>	<u> </u>
	10 Center I	Road, Perry, Ohio	14081			<u>W.O. 99-7794R/</u> (Repair Org. P.O. N	
3. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPP		Type Code Sym	ool Stamp <u>N</u>
	<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	1		Authorization No	. <u>33</u>
						Expiration Date	9/26/2005
4. Identificatio	n of System: <u>1B2</u>	1 NUCLEAR BOIL	ER ,PROC	ESS INSTR	RUMENT		
5. (a) Applicat	ole Construction C	ode: <u>ASME Sectio</u> NAME/SECT	n III NB			,19 <u>74</u> Editi	on
<u>Winter</u> 5.N-416-1	19 <u>75</u>				2,N-272,I	<u>N-282,N-241,N-413</u>	3,1728,1644
(b) Constru		or repairs, modifica			s: 1074	Winter 75	N/A
		or repairs, mounice	20013, 011	epiacement		tion Addenda	Code Case(s
(c ) ASME (	Code Section XI a	oplicable for Inserv	ice Inspec	tion:	<u>1989</u> Edi	tion Addenda	N/A Code Case(s
		ion XI Utilized for F	Repairs, Mo	odification, o	or Replac	ements:	
	<u>N/A</u> 19 <u>N/A</u> Responsibilities F		e Case(s)	ating Comp	any PNP	P	
•••••		Repaired, Modified					
Name of	Name of	Manufacturer	Nat.	Other		Repair.	ASME
Component	Manufacturer	Serial No.	Board No.	ID.	Year Built	Replacement, or Modification	Code Stamped
PIPING SYSTEM	PULLMAN POWER	1B21	64084	N/A	1985 <sup>-</sup>	REPLACEMENT	YES
				11 L			
			l				
· · · · · · · · · · · · · · · · · · ·			[				
		ED_valve 1B21F0					2" seamles
				<u> </u>			
. Test Conduc Pressure <u>10</u>	•	- D Pneumatist Temperature 13		Nominal Op	•	$Case(s) \underline{N-416-1}$	er- 🛄

6	Remarks: NONE.
	Indina. ITONE.
-	
-	
-	
_	NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
<u></u>	EING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED
N	ote: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, o
	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 c report is included on each sheet, and (3) each sheet is numbered and the number of sheets is rec
	the front of this form.
	CERTIFICATE OF COMPLIANCE
	I, DAVID K. ASKEW, certify that to the best of my knowledge and belief the statements made in this report
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the Code and to the National Board Inspection Code "NR" rules.
	National Board Certificate of Authorization No. 33 to use the "NR stamp expires 26 Sept_ 20
	Date 7/9 20 03 SignedFENOC-PNPP Maried K. Cushen Q.
	(name of repair organization) (authorized representative) (little)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, Thomas G. Laps,holding a valid commission issued by The National Board of Bo
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	and employed by <u>H.S.B.CT.</u> of <u>HARTFORD</u> , <u>CONN</u> inspected the repair, modification or replacement described in this report on <u>Juy 24</u> , 2003 and state the
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance
	Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable.
	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 lia any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspondent of the second sec

182/-352 FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES لي As Required by the Provisions of the ASME Code, Section III, Div. 1 Pg. 1 of <u>1</u>

۰.

:

	Manufactured by	<u>FLOWSERV</u>	E CORPORAT	ION, 1900 S. Saunde Address of N Certificate Holder)	ers St., Raleigh,	NC 27603	
2.	Manufactured for	T ENERGY CO	MPANY, AKRO	NOH 44309	· · · · ·		·
<b>).</b>	Location of Installation <u>CI</u>	EI, PERRY PLA	NT. NORTH PE		· · · · · · · · · · · · · · · · · · ·		
۱.	Pump or Valve	Valve	Nominal I		Outlet Size	·.	2"
	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) C <i>e</i> nadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd, No.	(g) Yea Built
-	(1) 15014MLPT1	92AVX	N/A	ACD-31602625/5	1	N/A	2003
	(2) 15014MLPT1	93AVX	N/A	ACD-31602625/5	1	N/A	2003
	(3)						
	(4)						
	(5)						
	(6)						
	(7)						
	(8)					<u> </u>	
	(9)						
	<del></del>			•		·	
	2" HERMAVALVE			service for which equipment was de	÷		
10	INET MATERIAL M	EETS ASME III	•		signedy		
			·····	TER'76 ADD.		21688	
	Design Conditions	2000	psi 70	) •F or Valve Pre	essure Class	21688 1500	(1)
	Cold Working Pressure	(Pressure) 3600		) •F or Valve Pre	essure Class		(1)
	Cold Working Pressure Pressure Retaining Pieces	(Pressure) 3600	psi 700 (Tempo psi at 100 °F.	0 °F or Valve Pre erature)		1500	
	Cold Working Pressure Pressure Retaining Pieces Mark No.	(Pressure) 3600	psi 701	) •F or Valve Pre			
	Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings	(Pressure) 3600	psi 700 (Tempo psi at 100 °F. Material Spec. No.	() *F or Valve Pre stature) Manufac	sturer	1500 Remark	.5
	Cold Working Pressure Pressure Retaining Pieces Mark No.	(Pressure) 3600	psi 700 (Tempo psi at 100 °F.	0 °F or Valve Pre erature)	sturer	1500	.5
	Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings	(Pressure) 3600	psi 700 (Tempo psi at 100 °F. Material Spec. No.	() *F or Valve Pre stature) Manufac	sturer	1500 Remark	
	Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings	(Pressure) 3600	psi 700 (Tempo psi at 100 °F. Material Spec. No.	() *F or Valve Pre stature) Manufac	sturer	1500 Remark	.5
	Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings	(Pressure) 3600	psi 700 (Tempo psi at 100 °F. Material Spec. No.	() *F or Valve Pre stature) Manufac	sturer	1500 Remark	.5
	Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings	(Pressure) 3600	psi 700 (Tempo psi at 100 °F. Material Spec. No.	() *F or Valve Pre stature) Manufac	sturer	1500 Remark	.5
•	Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings H244	(Pressure) 3600	psi 700 (Tempo psi at 100 °F. Material Spec. No.	() *F or Valve Pre stature) Manufac	sturer	1500 Remark	.5
	Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings H244 (b) Forgings	(Pressure) 3600	psi psi at 100 °F. Material Spec. No. A732 GR21	() *F or Valve President of Valv		1500 Remark DISK	
	Cold Working Pressure Pressure Retaining Pieces Mark No. (a) Castings H244	(Pressure) 3600	psi 700 (Tempo psi at 100 °F. Material Spec. No.	() *F or Valve Pre stature) Manufac	FOUNDRY	1500 Remark	

(1) For manually operated valves only

٠

<sup>\*</sup>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. 6

# FORM NPV-1 (Back)

· · .

# Pg. 2 of \_2\_

٠

Valve S/N 92AVX through 93AVX

Mark No.	Mat	erial Spec, No.	Manufa	cturer	Remarks
(c) Bolting	· · · · · · · · · · · · · · · · · · ·				
······································					
					· · · · · · · · · · · · · · · · · · ·
(d) Other Parts			<u></u>		
			······		
				· · · · · · · · · · · · · · · · · · ·	
·					
				•	
					1
		isk Differential test press		psi.	
the ASME Code for Nucle				e, contorms to Edition	the rules of construction 1974
ddenda WINTER '75				Edition :	
ddenda WINTER '75	ear Power Plant , Code Case No.	Components. Section	111, Div. 1.,	Edition :	1974
ddenda WINTER '75 igned Flowserve Cor (N Cenulcale Hok	ear Power Plant , Code Case No. (poration Ber)	Components. Section N-30 by	1111, Div. 1., , Da 	Edition	1974
gned WINTER '75 · Gned Flowserve Cor (N Centificate Hol	ear Power Plant , Code Case No. (poration (der)	Components. Section	1111, Div. 1., , Da 	Edition :	1974
gned WINTER '75 · Gned Flowserve Cor (N Centificate Hol	ear Power Plant , Code Case No. (poration (der)	Components. Section N-30 by	, 111, Div. 1., , Da 	Edition	1974 2/18/03 wl
Idenda WINTER '75 gned Flowscrvc Corr (N Centificate Flow ar ASME Certificate of Authorization	ear Power Plant , Code Case No. poration Mo. <u>N-</u>	Components. Section N-30 by	1 111, Div. 1., , Da  , N (N)	Edition	1974 2/18/03 
Idenda WINTER '75 gned Flowscrvc Cor (N Centificate Hol	ear Power Plant , Code Case No. poration Mo. <u>N-</u>	Components. Section N-30 by 1562 to use the CERTIFICATION 0	1 III, Div. 1., , Da , Da , , Da Da Da Da Da Da Da Da Da Da	Edition Ne DROC symbol expires	1974 2/18/03 
denda WINTER *75 gned Flowserve Corr (N Centificate Flow ur ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1	car Power Plant , Code Case No. poration (Ger) No. N- t only) on file at	Components. Section N-30 by 1562 to use the CERTIFICATION 0	111, Div. 1., , Da , Da , , Da , Da	Edition Ne Symbol expires	1974 2/18/03 11-26-03 (Date)
denda <u>WINTER '75</u> gned <u>Flowserve Cor</u> (N Centrate Hok ur ASME Certificate of Authorization Design Information on file at	car Power Plant , Code Case No. poration (Ger) No. N- t only) on file at	Components. Section N-30 by 1562 to use the CERTIFICATION 0	111, Div. 1., , Da , Da , Da , Da , Da , Da , Da , D	Edition As symbol expires	1974 2/18/03 11-26-03 (Date)
ddenda <u>WINTER '75</u> gned <u>Flowserve Cor</u> (N Cerulicate Hok ur ASME Certificate of Authorization Design Information on file at Stress analysis report (Class 1	code Case No. poration No. N- conly) on file at y (1)	Components. Section N-30 by 1562 to use the CERTIFICATION 0	N OF DESIGN ERVE CORPOF FLOWSERV FRANCIS C	Edition Ae symbol expires ATION, RAI VE CORPOR ROSCH JR	1974 2/18/03 11-26-03 (Date)
ddenda <u>WINTER '75</u> gned <u>Flowscrvc Cor</u> (N Centrate Hot ur ASME Certificate of Authorization Design Information on file at Stress analysis report (Class 1 Design specifications certified by	car Power Plant , Code Case No. poration (Ger) No. N- t only) on file at	Components. Section N-30 by 1562 to use the CERTIFICATION O FLOWS	111, Div. 1., , Da , Da , Da , Da , Da , Da , Da , D	Edition As symbol expires AATION, RAI VE CORPOR ROSCH JR S-E	1974 2/18/03 11-26-03 (Date)
ddenda <u>WINTER '75</u> gned <u>Flowscrvc Corr</u> (N Centicate Hot ur ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1)	code Case No. poration No. N- conly) on file at y (1) PA	Components. Section N-30 by 1562 CERTIFICATION FLOWS Reg. No.	N N OF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS	Edition Ase Symbol expires RATION, RAI VE CORPOR ROSCH JR 5-E III	1974 2/18/03 11-26-03 (Date)
ddenda <u>WINTER '75</u> igned <u>Flowscrvc Corr</u> (N Centificate Hot ur ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State	code Case No. poration No. N- conly) on file at y (1)	Components. Section N-30 by 1562 to use the CERTIFICATION O FLOWS	111, Div. 1., , Da , Da , Da , Da , Da , Da , Da , D	Edition Ase Symbol expires RATION, RAI VE CORPOR ROSCH JR 5-E III	1974 2/18/03 11-26-03 (Date)
ddenda WINTER 475 Igned Flowscrvc Corr (N Cenulcate Hold ur ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1) PE State	code Case No. poration No. N- t only) on file at y (1) PA NC	Components. Section N-30 by 1562 CERTIFICATION FLOWS Reg. No.	N N OF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS	Edition Ase Symbol expires RATION, RAI VE CORPOR ROSCH JR 5-E III	1974 2/18/03 11-26-03 (Date)
ddenda WINTER 475 igned Flowserve Corr (N Cerulicale Hole ur ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1) PE State	code Case No. poration No. N- t only) on file at y (1) PA NC	Components. Section N-30 by 1562 CERTIFICATION FLOWS Reg. No.	N N OF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS	Edition Ase Symbol expires RATION, RAI VE CORPOR ROSCH JR 5-E III	1974 2/18/03 11-26-03 (Date)
ddenda WINTER 475 igned Flowserve Corr (N Cerulicale Hok ur ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1) PE State Signature not required, List name of	code Case No. poration No. N- no. N- t only) on file at y (1) PA NC nly. CER	Components. Section N-30 by 1562 to use the CERTIFICATION G FLOWS Reg. No. Reg. No. TIFICATE OF SHO	III, Div. 1., Da N M DF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS 418	Edition Ae Symbol expires RATION, RAI VE CORPOR ROSCH JR S-E III 7	1974 2/18/03 
ddenda WINTER *75 igned Flowserve Corr (N Cenulcate Hok ur ASME Certificate of Authorization Design Information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1) PE State Signature not required, List name of	code Case No. poration No. N- no. N- t only) on file at y (1) PA NC nly. CER	Components. Section N-30 by 1562 to use the CERTIFICATION G FLOWS Reg. No. Reg. No. TIFICATE OF SHO	III, Div. 1., Da N M DF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS 418	Edition Ae Symbol expires RATION, RAI VE CORPOR ROSCH JR S-E III 7	1974 2/18/03 
ddenda WINTER 175 Igned Flowscrvc Corr (N Cerulicate Fok ur ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1) PE State Stress analysis certified by (1) PE State Stress analysis certified by (1) PE State	code Case No. poration No. N- no. N- t only) on file at y (1) PA NC nly. CER	Components. Section N-30 by 1562 to use the CERTIFICATION G FLOWS Reg. No. Reg. No. TIFICATE OF SHO	III, Div. 1., Da N N OF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS 418 OP INSPECTION er and Pressure Ves	Edition Ale Symbol expires EATION, RAI VE CORPOR ROSCH JR 5-E III 77 N sel inspectors and of Hartfo	1974 2/18/03 11-26-03 (Cate) LEIGH, NC ATION d the State or Province of North ord Connecticut have
ddenda WINTER *75 igned Flowserve Corr (N Cerulicate Hold bur ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1) PE State ) Signature not required. List name on the undersigned, holding a valid comm arolina and employed by spected the pump, or valve, described	code Case No. poration for a see No. poration for No. No. No. No. No. PA NC nly. CER mission issued by the set of the s	Components. Section N-30 by 1562 to use the CERTIFICATION G FLOWS Reg. No. Reg. No. TIFICATE OF SHC he National Board of Boil HSE ort on 2. 1 //8	N N OF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS 418 OP INSPECTIOI er and Pressure Ves CT 1 0 3 , and sta	Edition Ale Symbol expires EATION, RAI VE CORPOR ROSCH JR 5-E III 77 N sel inspectors and of Hartfo	1974 2/18/03 11-26-03 (Date) LEIGH, NC ATION d the State or Province of North
ddenda WINTER 175 igned Flowserve Corr (N Cerulicate Hok our ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1) PE State ) Signature not required. List name ou the undersigned, holding a valid comma arolina and employed by pected the pump, or valve, described artificate Holder has constructed this a	code Case No. poration for ation for atio	Components. Section N-30 by 1562 to use the CERTIFICATION of FLOWS Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boil HSE oft on 2 / /B accordance with ASME of	N N N OF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS 418 OP INSPECTION er and Pressure Ves CT / 03, and sta Code, Section III,	Edition Ale Symbol expires EATION, RAI VE CORPOR ROSCH JR S-E III 77 N sel inspectors and of <u>Hartfo</u> the that, to the best	1974 2/18/03 11-26-03 (Date) LEIGH, NC ATION d the State or Province of North ord Connecticut have st of my knowledge and belief, the
ddenda WINTER 475 igned Flowserve Corr (N Ceruicate Hold wr ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1) PE State ) Signature not required. List name of the undersigned, holding a valid comm arolina and employed by spected the pump, or valve, described reficiate Holder has constructed this if y signing this certificate neither the last	code Case No. poration der) No. N- t only) on file at y (1) PA NC nly. CER mission issued by the d in this Data Repo pump, or valve, in spector nor his emp	Components. Section N-30 by 1562 to use the CERTIFICATION O FLOWS Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boil HSE ort on 2 / /B accordance with ASME	III, Div. 1., Da N CF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS 418 OP INSPECTION er and Pressure Ves CT / 03 . and sta Code, Section III. y, expressed or impl	Edition Ale Symbol expires EATION, RAI VE CORPOR CORPOR CORPOR S-E III 7 N sel inspectors and of <u>Hartfr</u> Ale that, to the beside ied, concerning the	1974 2/18/03 11-26-03 (Date) LEIGH, NC ATION d the State or Province of North ord Connecticut have st of my knowledge and belief, the we equipment described in this s
ddenda WINTER 475 igned Flowserve Corr (N Cerulicate Hold our ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1) PE State ) Signature not required. List name ou the undersigned, holding a valid comma arolina and employed by spected the pump, or valve, described ertificate Holder has constructed this post signing this certificate neither the In sta Report. Furthermore, neither the In	code Case No. poration for ation for atio	Components. Section N-30 by 1562 to use the CERTIFICATION O FLOWS Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boil HSE ort on 2 / /B accordance with ASME	III, Div. 1., Da N CF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS 418 OP INSPECTION er and Pressure Ves CT / 03 . and sta Code, Section III. y, expressed or impl	Edition Ale Symbol expires EATION, RAI VE CORPOR CORPOR CORPOR S-E III 7 N sel inspectors and of <u>Hartfr</u> Ale that, to the beside ied, concerning the	1974 2/18/03 11-26-03 (Date) LEIGH, NC ATION d the State or Province of North ord Connecticut have st of my knowledge and belief, the we equipment described in this s
iddenda       WINTER *75         igned       Flowserve Corr (N Ceruicale Hoto)         bur ASME Certificate of Authorization         Design information on file at Stress analysis report (Class 1         Design specifications certified by PE State         Stress analysis certified by (1) PE State         ) Signature not required. List name of arolina and employed by spected the pump, or valve, described ertificate Holder has constructed this is y signing this certificate neither the In at a Report. Furthermore, neither the In arising from or connected with this	code Case No. poration for ation for atio	Components. Section N-30 by 1562 to use the CERTIFICATION O FLOWS Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boil HSE ort on 2 / /B accordance with ASME	III, Div. 1., Da N CF DESIGN ERVE CORPOF FLOWSER FRANCIS C 00285 SL ADAMS 418 OP INSPECTION er and Pressure Ves CT / 03 . and sta Code, Section III. y, expressed or impl	Edition Ale Symbol expires EATION, RAI VE CORPOR CORPOR CORPOR S-E III 7 N sel inspectors and of <u>Hartfr</u> Ale that, to the beside ied, concerning the	1974 2/18/03 11-26-03 (Date) LEIGH, NC ATION d the State or Province of North ord Connecticut have st of my knowledge and belief, the we equipment described in this s
ddenda WINTER 475 igned Flowserve Corr (N Centicate Hot bur ASME Certificate of Authorization Design Information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1)	code Case No. poration for ation for atio	Components. Section N-30 by 1562 to use the CERTIFICATION of FLOWS Reg. No. Reg. No. Reg. No. TIFICATE OF SHC he National Board of Boil ort on 2 / /B accordance with ASME of on	N N N DF DESIGN ERVE CORPOF FLOWSERV FRANCIS C 00285 SL ADAMS 418 OP INSPECTION er and Pressure Ves CT J 03 , and sta Code, Section III. y, expressed or impli- ing manner for any po	Edition Ale Symbol expires EATION, RAI VE CORPOR TO CORPOR T	1974 2/18/03 11-26-03 (Date) LEIGH, NC ATION d the State or Province of North ord Connecticut have st of my knowledge and belief, the we equipment described in this s
ddenda       WINTER *75         igned       Flowserve Corr (N Cerulicate Hold bur ASME Certificate of Authorization         Design information on file at Stress analysis report (Class 1         Design specifications certified by PE State         Stress analysis certified by (1) PE State         Signature not required. List name or spected the pump, or valve, described ertificate Holder has constructed this is visigning this certificate neither the Instate Report. Furthermore, neither the Instate Re	code Case No. poration for ation for atio	Components. Section N-30 by 1562 to use the CERTIFICATION of FLOWS Reg. No. Reg. No. Reg. No. TIFICATE OF SHC he National Board of Boil ort on 2 / /B accordance with ASME of on	N N N DF DESIGN ERVE CORPOF FLOWSERV FRANCIS C 00285 SL ADAMS 418 OP INSPECTION er and Pressure Ves CT J 03 , and sta Code, Section III. y, expressed or impli- ing manner for any po	Edition Ale Symbol expires EATION, RAI VE CORPOR TO CORPOR T	1974 2/18/03 11-26-03 (Date) LEIGH, NC ATION d the State or Province of North ord Connecticut have st of my knowledge and belief, the we equipment described in this s
ddenda WINTER 175 igned Flowserve Corr (N Ceruicate Hot ur ASME Certificate of Authorization Design information on file at Stress analysis report (Class 1 Design specifications certified by PE State Stress analysis certified by (1) PE State Signature not required. List name of arolina and employed by spected the pump, or valve, described reficiate Holder has constructed this is regining this certificate neither the Ins the Report. Furthermore, neither the Ins the arising from or connected with this	code Case No. poration for ation for atio	Components. Section N-30 by 1562 to use the CERTIFICATION O FLOWS Reg. No. Reg. No. TIFICATE OF SHO he National Board of Boil HSE ort on 2 / /B accordance with ASME	N N N DF DESIGN ERVE CORPOF FLOWSERV FRANCIS C 00285 SL ADAMS 418 OP INSPECTION er and Pressure Ves CT J 03 , and sta Code, Section III. y, expressed or impli- ing manner for any po	Edition Ale Symbol expires EATION, RAI VE CORPOR TO CORPOR T	1974 2/18/03 11-26-03 (Date) LEIGH, NC ATION d the State or Province of North ord Connecticut have st of my knowledge and belief, the we equipment described in this s

1B21-351	<b>1</b> B	21	-3	5	1
----------	------------	----	----	---	---

	Rev. 9/11/00			NE ASME C			NQI-1741
1. Owner: _	FIRS	ENERGY CORP.		<u></u>		Date <u>7-18-03</u>	<u> </u>
_	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	1
2. Plant:	Perry Nucl	ear Power Plant (I	PNPP)			Unit <u>ONE</u>	
(R	10 Center F epair Org. P.O. No., etc	Road, Perry, Ohio :.)	44081			<u>WO 03-004869-(</u>	000 R/0
3. Work Perfo	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPP		Type Code Symt	ol Stamp <u>N</u>
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>81</u>		Authorization No.	
						Expiration Date	9-26-05
	n of System: <u>1B2</u>				,		
5. (a) Applical	ble Construction Co	NAME/SECT	ION III NB NON/DIVISIO	N/CLASS		19 <u>74</u> Editi	n
WINTE	R 19 <u>75</u>	Addenda Code	Case(s) <u>1</u>	728, 272,10	644-4		
	Code Section XI ap	on XI Utilized for F	Repairs, M	odification,	or Replac	ition Addenda ements:	Code Case
(e) Design 6. Identificatio	Responsibilities <u>F</u> n of Components F	Cod IRSTENERGY NL Repaired, Modified	, or Replac	cement Con	COMPA	<u></u>	
(e) Design	Responsibilities <u>F</u>	Cod IRSTENERGY NU	le Case(s) JCLEAR O	PERATING			ASME Code Stamped
(e) Design 6. Identificatio Name of	Responsibilities <u>F</u> n of Components F Name of	Cod IRSTENERGY NU Repaired, Modified Manufacturer	le Case(s) JCLEAR O I, or Replac Nat. Board	PERATING cement Con	COMPA nponents Year	Repair, Replacement,	Code
(e) Design 6. Identificatio Name of Component	Responsibilities <u>F</u> n of Components F Name of Manufacturer ATWOOD	Cod IRSTENERGY NU Repaired, Modified Manufacturer Serial No.	le Case(s) JCLEAR O I, or Replace Nat. Board No.	PERATING cement Con Other ID. 1B21	COMPA nponents Year Built	Repair, Replacement, or Modification	Code Stamped
(e) Design 6. Identificatio Name of Component	Responsibilities <u>F</u> n of Components F Name of Manufacturer ATWOOD	Cod IRSTENERGY NU Repaired, Modified Manufacturer Serial No.	le Case(s) JCLEAR O I, or Replace Nat. Board No.	PERATING cement Con Other ID. 1B21	COMPA nponents Year Built	Repair, Replacement, or Modification	Code Stamped
(e) Design 6. Identificatio Name of Component	Responsibilities <u>F</u> n of Components F Name of Manufacturer ATWOOD MORILL	Cod IRSTENERGY NU Repaired, Modified Manufacturer Serial No.	le Case(s) JCLEAR O I, or Replace Nat. Board No.	PERATING cement Con Other ID. 1B21	COMPA nponents Year Built	Repair, Replacement, or Modification	Code Stamped
<ul> <li>(e) Design</li> <li>6. Identificatio</li> <li>Name of Component</li> <li>VALVE</li> <li>VALVE</li> <li>7. Description</li> </ul>	Responsibilities <u>F</u> n of Components F Name of Manufacturer ATWOOD	Cod IRSTENERGY NU Repaired, Modified Manufacturer Serial No. 3-560	F022C US	PERATING cement Con Other ID. 1B21 F022C	COMPA nponents Year Built 1976	Repair, Replacement, or Modification REPLACEMENT	Code Stamped YES

-

· ·

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
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
<ol> <li>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.</li> </ol>
National Board Certificate of Authorization No33 to use the "NR stamp expires SEPT, 26, 20 05
Date July 18,2003_Signed <u>FENOC-PNPP</u> <u>Mension</u> <u>QE</u> (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I. THOMAS G. LAPS, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by <u>H.S.B. CT.</u> of <u>HARTFORD</u> CONN have
inspected the repair, modification or replacement described in this report on July 21, 20 03 and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection. Date <u>July 34</u> 20 <u>03</u> Signed <u>Threes</u> <u>July</u> Commissions <u>NB 9330 N I.A</u> <u>Commissions</u> (inspector) (National Board (include endorsements), and jurisdiction, and no.)

						IB	33-114		
٩	NIS-2		R'S REPOR quired by the Prov					ENTS	
1	. Owner:	FIRS	TENERGY CORP.				Date 04/30/03		
'	. <b>O</b> wner:		Road, Perry, Ohio	44081			Sheet <u>1</u> of		
								<u></u>	
2	. Plant: _	Perry Nuc	lear Power Plant (F	PNPP)			Unit <u>1</u>		
		10 Center I	Road, Perry, Ohio	4081			01-008450-000,		
							(Repair Org. P.O. N	v0., <del>v</del> (c.)	
3	. Work Perfo	rmed By: <u>FIRSTE</u>					Type Code Sym	bol Stamp <u>N</u>	R
		<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>11</u>		Authorization No		
							Expiration Date	9-26-05	<u> </u>
4	. Identificatio	n of System: <u>1B3</u>	3 Reactor Recircul	ation Syste	em				_
5	. (a) Applicat	ole Construction Co	ode: ASME Sec III	, Subsection	on NB		19 <u>74</u> Editi	on	
	Winner	19 75	NAME/SECT		N/CLASS	2-1 1706			
		··· <u>···</u> _ ·						<u></u>	•
	(b) Constru	ction Code used f	or repairs, modifica	ations, or r	eplacemen			<u>N/A</u>	
	(c) ASME (	Code Section XI ap	nlicable for Insen	ico Incoac	tion:	Edi 1989	ition Addenda N/A	Code Case(s	3)
						Ed	lion Addenda	Code Case(s	5)
		ble Edition of Secti		Repairs, Mo	odification,	or Replac	ements:		
		<u>N/A</u> 19 <u>N/A</u>	Cod	e Case(s)					
~		Responsibilities <u>F</u>							
0. 1		n of Components F	<u></u>	·	·····		l Deseta	1 1015	
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code	
	Support	E-Systems	058	No.	1B33-	1979	or Modification Replacement	Stamped Yes	
					G7066A	1010		100	
				1					
ſ									
Ī									
נ 7. <u>Sr</u>	Description	of Work: <u>Removed</u> Number 022	E-System 100 K	I IP Snubbe	r Serial Nu	nber 058	and replaced it wi	th rebuilt	ļ
8.		cted: Hydrostatic		—	•	-		er- 🔲	
	Pressure <u>N</u>	<u>A</u> psi Te	st Temperature N	/ <u>A</u> c	legrees F	Code	Case(s) <u>N/A</u>		
									_

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) 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, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No.       33       to use the "NR stamp expires 9-26       20,05         Date April 30       20 03       Signed       FENOC-PNPP       Image: Constraint organization       QE 3/30/03         (name of repair organization)       (authorized representative)       (ittle)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G, Laps, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by <u>Hartford Steam Boiler Ct.</u> of <u>Hartford, Conn.</u> have
inspected the repair, modification or replacement described in this report on May 1 20 03 and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date <u>May 1</u> , 20 <u>03</u> Signed <u>Thomas</u> <u>H</u> <u>Japa</u> Commissions <u>NB9330</u> <u>"N" "I" "A"</u> <u>Ohio Comm.</u> ( <i>inspector</i> ) ( <i>inspector</i> ) <i>Commissions</i> <u>NB9330</u> <i>"N" "I" "A"</i> <u>Ohio Comm.</u> ( <i>National Board (include endorsements),</i> <i>and jurisdiction, and no.</i> )

1833-114 SHPET FORM NF-1 MANUFACTURERS' DATA REPORT FOR COMPONENT SUPPORTS والايذان 14 Division 1. Manufactured by\_ eand address (Imenvioesvies) WHY IN M San A Hoge Street General Flectric Company San Jose California Neme and segrets of system No. 2, Inola, Okla. 94036 2. Manufacturer for\_ 3. Location of Installation\_ 4. Identification (e) (f) (f) Type of (f) (h) - (c) 🤞 **(a)** (b) Stren Report Applicable Canadian Component Drawings with 55 For Load Cape 5 Component Street Last Rev. & Date Street Date Sheet Support Street Class Nat'l Board Support Registration rear Built A No. I.D. No. No. n<u> 022</u> 157510(N/C) 100152000-602 1 10ear N/A None (2) 021 CALL DE LE CALLER OF THE OWNER OF . \*152210/F (3)\_045 4.34436 øi. (4) 049 (5)\_ 100 . (6)\_ (7) and the state of t (8) (9)\_ (10). To correct clerical error. Added -5. Remarks: 1.2.2 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report we correct and that these components supports conform to the rules of construction of the ASME Code for Nuclear Power Plant Component: Section III, Division 1, Edition 1977 Adginde Winter 1977 Code Care No.\_1644-8-1682-1, 17/06 N242-1, ... Que Driv Dec. 28. 1981 Sand E-Systems Inc. Montel Div Standard - Lynch NPT 1356 to use the Our ASME Certificate of Authorization No. 1 March 1982 Symbol expires\_ S. STA GCM Datel and make Sector and the sector and the sector of the UCT CERTIFICATION OF DESIGN E-Systems, Inc., Montek Division, Salt Lake City, UT 105 Design Information on File at Stress Report or Load Capacity Data Sheets on File at: E-Systems; Inc., Montek Division, Salt Lake City PE State\_ CA Sector 1 1.11 · . 25904 Reg. No. -Stress Analysis Report or Load Capacity Data Sheets Centilied by (1) Robert Lee Warren III CARLAN STREET (1) List name only, signature not re "Supplemental sheets in form of lists, sketche on this data report is included on sech sheet, er This form (E00075) is evaluable fro (1/76)

F.	• •				

## FORM NE-1 (Ridd) CERTIFICATE OF SHOP INSPECTION ACATE OF ONOT have Inspected the component supports described in this Handlacturers' Data Argort on\_\_\_ Dec. 22 1.81. and state that to the best of my knowledge and belief the Manufacturer has constructed mass component supports in accordance th the ASHE Code for Nudear Power Plant Components 1. ly lighting this sentificate, heither the impector nor his analoger makes any warranty, expressed of implied, concerning the component upports "inclibed in this Manufacturate". Data Reports Furthermore, heldher the inspector nor his employer shall be liable in an ranner for any personal injury or property damage or a loss of any kind widing from or connected with this inspections 28. Dec 1931 No. (NAT. A & STATE FIRE AND NO.) 1999 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 -A. 4. 60 3..... the second s CERTIFICATION OF FIELD INSPECTION Ji. , the undersigned, holding a valid commission includ by the National Board of Boiler and Pressure Vessal Inspectors and the State of incoacted by me and that to the bart of my knowledge and belief the Manufacturer has operfucted the ince with the ASME Code for Nuclear Power Plant Components 1.27: 1 By signing this cartificate neither the inspector nor his encloyer makes any warranty stor supporte described in this Manufacturers' Data Report: Furthermore, neither the into har for any personal injury or property damage or a loss of any kind widing from er co ÷., INACIDE SLATE CIEVE AND NO. 1 ....

Bö

1833-115

<ol> <li>Plant:</li></ol>	FIRS 10 Center I Perry Nuc	TENERGY CORP. Road, Perry, Ohio lear Power Plant (P Road, Perry, Ohio 4	NPP)			Date 05/02/03	<u>NQI-1741</u>
Plant:     Orrest Performed B     Work Performed B     Identification of System     (a) Applicable Construction C     (b) Construction C     (c) ASME Code Se     (d) Applicable Edit         19 89 , N/A     (e) Design Respon     Identification of Coto     Name of Name of Name	10 Center I Perry Nuc	Road, Perry, Ohio lear Power Plant (P Road, Perry, Ohio 4	NPP)	 			
<ol> <li>Plant:</li></ol>	Perry Nuc	lear Power Plant (P Road, Perry, Ohio 4	NPP)			Cheel 4	
. Work Performed B . Identification of System . (a) Applicable Construction C <u>Winner</u> (b) Construction C (c) ASME Code Se (d) Applicable Editt 19 <u>89</u> , N/A (e) Design Resport . Identification of Construction of C		Road, Perry, Ohio 4				Sheet 1 of	2
. Work Performed B . Identification of System . (a) Applicable Construction C (b) Construction C (c) ASME Code Se (d) Applicable Editt 19 89, N/A (e) Design Resport Identification of Construction of		Road, Perry, Ohio 4		·. ·		Unit 1	
. Work Performed B . Identification of Sys . (a) Applicable Cons <u>Winner</u> (b) Construction C (c) ASME Code Se (d) Applicable Edit 19 <u>89</u> , <u>N/A</u> (e) Design Respor . Identification of Cons Name of N Component Man	<u>to Genier i</u>		4001			01-016597-000,	 ₽_∩
<ul> <li>Identification of Systems</li> <li>(a) Applicable Construction C</li> <li>(b) Construction C</li> <li>(c) ASME Code Set</li> <li>(d) Applicable Editting 89, N/A</li> <li>(e) Design Responsion of Construction of Constructi</li></ul>				<u> </u>	·	(Repair Org. P.O. N	
(a) Applicable Cons <u>Winner</u> (b) Construction C (c) ASME Code Se (d) Applicable Edit 19 <u>89</u> , <u>N/A</u> (e) Design Respor Identification of Cot Name of N Component Man	By: FIRSTE	NERGY Nuclear Ope	erating Corr	pany PNPP		Type Code Symb	ol Stamp
(a) Applicable Cons <u>Winner</u> (b) Construction C (c) ASME Code Se (d) Applicable Edit 19 <u>89</u> , <u>N/A</u> (e) Design Respor Identification of Cou Name of N Component Man	<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No.	33_
(a) Applicable Cons <u>Winner</u> (b) Construction C (c) ASME Code Se (d) Applicable Edit 19 <u>89</u> , <u>N/A</u> (e) Design Respor Identification of Cou Name of N Component Man				_		Expiration Date	
Winner (b) Construction C (c) ASME Code Se (d) Applicable Edit 19 <u>89</u> , <u>N/A</u> (e) Design Respor Identification of Con Name of N Component Man	ystem: <u>B33</u>	BReactor Recirculi	ation Syste	em			
Winner         (b) Construction C         (c) ASME Code Se         (d) Applicable Edit         19 89 , N/A         (e) Design Respon         Identification of Con         Name of Component	Instruction C	ode: ASME Sec III,	, Subsectic	on , NF-1		,1974 Editio	on
<ul> <li>(b) Construction C</li> <li>(c) ASME Code Se</li> <li>(d) Applicable Edit</li> <li>19 89, N/A</li> <li>(e) Design Responsion of Construction of Construction of Construction of Construction of Construction Management</li> </ul>		NAME/SECT	ION/DIVISIO	N/CLASS			
<ul> <li>(c) ASME Code Set</li> <li>(d) Applicable Edit</li> <li>19 89, N/A</li> <li>(e) Design Responsion of Construction of Construction of Construction of Construction Management</li> </ul>	_ 19 <u>75</u> .	Addenda Code	Case(s) <u>1</u>	<u>728, 1644-4</u>			<u></u>
<ul> <li>(d) Applicable Edit</li> <li>19 89, N/A</li> <li>(e) Design Respondent</li> <li>Identification of Control</li> <li>Name of Name of Name</li> <li>Name of Management</li> </ul>	Code used f	or repairs, modifica	itions, or re	eplacement		W75 tion Addenda	N/A Code Case
19 <u>89</u> , <u>N/A</u> (e) Design Respor Identification of Cor Name of N Component Man	Section XI a	pplicable for Inservi	ice Inspect	lion:	<u>1989</u> Edi	tion Addenda	<u>N/A</u> Code Case
(e) Design Respor Identification of Con Name of N Component Man	lition of Sect	ion XI Utilized for R	lepairs, Mo	odification, c	or Replac	ements:	
Identification of Con Name of N Component Man	19 <u>N/A</u>		e Case(s)				
Name of N Component Man	onsibilities <u>F</u>			ating Comp	any		
Component Man	omnonente f	Repaired, Modified,	, or Replac	ement Corr	ponents		
Supports E-Syst	omponents t	Manufacturer	Nat. Board	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
	Name of anufacturer	Serial No.	No.			Replacement	Yes
	Name of	Serial No. B33	No. None	1B33G70 68A	1978		
	Name of anufacturer				1978		
	Name of anufacturer				1978		
	Name of anufacturer				1978		
Description of Work	Name of anufacturer				1978		
•	Name of anufacturer ystems	B33	None	68A		with rebuilt Serial n	umber 020

. .

N	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PP No. 9308 Rev. 9/11/00 NQI-1741
	Remarks:
-	
(	NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN
Ĉ	FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
-	
2	te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on
	the front of this form.
	CERTIFICATE OF COMPLIANCE
ŀ	I, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
	National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires <u>9-26</u> , 20 <u>05</u>
	Date May 2_, 20 03_ Signed FENOC-PNPP QE QE (title)
	(name of repair organization) / (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO and employed by <u>Hartford Steam Boiler Ct.</u> of <u>Hartford, Conn.</u> have
	inspected the repair, modification or replacement described in this report on <u>May 2</u> , 20 03 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 2, 20 2003 Signed Thermal Harman Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

- ----

- ----

1833-115 282

1. Manufacture	nd by E-S	vstems, Inc.	Montek	Division	STEELCI'	e citv	III A ALLE	
2. Manufacture	r_lorGen	eral Flectri						
J. Location of	te seallastan	Black Fox Re	circulati	on System	No 2241		12 04026	
4. Identificatio							145000	
(5)	ы	(c)		1	(I).	m seless.	(g)	h) since
Component Support	Registration		h / of Los	Report 7 Contract Co	mponent	National Nation	'l Board 🦻 🖓	
1.D. No. (1) 025	No.	Lan Rev. & D	البيذ المسامي الأغاقي	ia Sheet 👯 S			No E Y	tar Built icht
(1) 023	<u>N/A</u>	<u>157510(N/C</u>	<u>1_LCD152</u>	000-602 *1	<u>inear S</u>	<u>0] 2452000</u> 112 (22)	None	1981
(3) 017		•			H	119.191		
(4) 019		91 - Serge 2		w we and the state of the				H
(5) E514 (6) 020		<u>152210(E)</u>	مەرىيە ئۇرىلەر يېرىمى مەرىيە ئۇرىيە		H Normanian Karasa Sah			<u>  </u>
(7) 009			<u>.</u>		11 Jan 19 1			11
(8) 002	11	. (1	H				en.	n 🦾
191.020	89	15751D(N/C					I have been seen	······································
(10) <u>F515</u>	<b>14</b>	<u>152210(E)</u>			N	/n/:	ne series en a	<u>ii ( 6.688</u>
5. Remarks:		o correct c	an adda and a contract of a second second		aensk	VIZAHA	4130182	100
			1. 2. 4 <b>- 5</b> - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	en under Galan	SUSCIENCE LAS		A Second State	
			1.2.2.4.4.404	(C.) 2003/14.2.3)	12.00 - 12.75 	E part and a second		
		ĊĒŔ	TIFICATE OF	COMPLIANC	ETH	give, statur	14 A.	
		nade in this report a						
of the ASME Co Code Case No.	1644-8 168	ower Plant Compon 2-1, 1706, N24	nu: Section III. 241: *	Division 1, Edit	lon	Addanda	LO IDAIN	
Dec.	28; <u>198</u> 1 si	aned F=Svettome	Inc Mon	tek Div w		STHE!		
		1250	Inviacturer) Fr			YIICID AV		
Dur ASME Certi	licate of Author	zation No.		- to use the		THINET)		
symbol expires	1 Marc	h 1982					1. S.	6)—(A)
	(Date)		and house		50.00		5355 G C	<b>MAR</b>
				CORFORM STREET	687-7413 6	1135 s. H.C	92030	+ 2 Bill
				I. OF DESIGN				
Seilen Informati	ion on File at	E-Systems,	Inc., Ho	ntekvDivis	don - Sal	t-Lake C	ity, UT.	
			6		1476-27			
TER NEPOL OF	LOID CADECITY L	E-Systems,	Inc. Mo	ntek Divis	ion Sal	t Lake (	tty IIT	
hates Canalilari	line Circlind L	(1) <u>M.D. Po</u>			1999 - A.	CA	Nr 11 12 32	
		3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				States .		
leg. No			24.7				1.1.1.1.1.1	
		epactry Data Sheeti	Certified by (1)	Robert	eerWarre	nellies		
£ \$1878	ah	Res No -	33942					
ULISE NAME ON	v, elenenure not	esulres .						
					11 11 11 11 11 11 11 11 11 11 11 11 11			
suppremental at a this data fapo	rt is inclused on			nbered end over				
	110 110	ESA(C				• • • •		

ھی

# CERTIFICATE OF SHOP INSPECTION

I, the underlighted, holding a valid commission issued by the Netloral Board of Boller and Pressure Vestel Indestors and the State or Province at <u>Utah</u> and employed by <u>Royal\_Globe\_Ins</u> <u>Area</u> New York. New York have inspected the component supports discribed in the Menufacturer Date Report on DEC. 28. 19.81, 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.

FORM NF-1 (Back)

By signing this sertificate, neither the inspector nor all employer makes any werenty, expressed or incided concerning the component supports' secribed in this Manufacturers' Data Reports' Furthermore, neither the inspector nor his employer shall be itable in any manner for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or property damage or a lost of any kind science for any personal injury or 
Date 28. Dec ... 1981

16.28

litah ? (Nari Br. Bute, Fran, and No.)

### CERTIFICATION OF FIELD INSPECTION

Commissions\_

And the gas she parties of the set senants in the Manuforwer. Data Report with the decribed component support and the gas she parties of the set set of the set senants in the Manuforwer. Data Report with the decribed component support incorded by mit and that to the ben of my the week one benefit the Manuforwer has constructed in the component supports in accord and component supports in accord and the ASME Code for Nucleif Former Plant Components.

By algoing this semilicate neither the propertormer his employer makes any werenty, expressed or employer enalling the component support described in this Menulactures. (Date: Asport: Furthermore, neither the Inspecter nor his employer enalling liable in enymerner-for any personal injury or property demaps or a loss of any kind scaling from or connected with this inspection.)

l	в3	3-	l	l	6
---	----	----	---	---	---

		quired by the Provi		•			
-NFF NO. 9300 N	ev. 9/11/00				· <u> </u>		NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date <u>05/02/03</u>	·
	10 Center I	Road, Perry, Ohio	44081	<del></del>	κ.	Sheet <u>1</u> of	<u>3</u>
2. Plant:	Perry Nuc	lear Power Plant (F	NPP)			Unit <u>1</u>	
	10 Center I	Road, Perry, Ohio	44081	 :		00-002061-000, (Repair Org. P.O. N	
3. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	pany PNPP	· .	Type Code Symt	ool Stamp I
	<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	1		Authorization No.	. <u>33</u>
						Expiration Date	9-26-05
. Identificatio	n of Svstem: Rea	ctor Recirculation	sstem Pun	no "A" Moto	r		
		ode: ASME Sec III				,1974 Editi	on
		NAME/SECT	ION/DIVISIC	N/CLASS	•		
<u>Winter</u>	19 <u>75</u>	Addenda Code	Case(s) <u>1</u>	<u>728, 1644-4</u>			
	<u></u>						
(b) Constru	ction Code used f	or repairs, modifica	ations, or r	eplacement		W75 Addenda	N/A Code Case
(c) ASME (	Code Section XI a	pplicable for Inserv	ice Inspec	tion:	1989		N/A
			•				11/1
(d) Applical						ition Addenda	
•••••		ion XI Utilized for F	•	odification, (		ition Addenda	
		Addenda <u>N/A</u>		odification, (		ition Addenda	
19 <u>89 .</u>	<u>N/A</u> 19 <u>N/A</u>	Addenda <u>N/A</u>	e Case(s)		or Replac	ition Addenda	
19 <u>89 ,</u> (e) Design	<u>N/A                                    </u>	Addenda <u>N/A</u> Cod	e Case(s) clear Oper	ating Comp	or Replac	ition Addenda	
19 <u>89</u> (e) Design Identification Name of	N/A 19 N/A Responsibilities <u>F</u> n of Components I Name of	Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer	e Case(s) clear Oper , or Replac	ating Comp cement Con Other	or Replace	ition Addenda ements: Repair,	Code Case
19 <u>89 ,</u> (e) Design . Identification	<u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components I	Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified	e Case(s) clear Oper , or Replac	ating Comp cement Con	or Replac	ition Addenda	Code Case
19 <u>89</u> (e) Design Identification Name of	N/A 19 N/A Responsibilities <u>F</u> n of Components I Name of	Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer	e Case(s) clear Oper , or Replac Nat. Board	ating Comp cement Con Other	or Replace	Repair, Replacement,	Code Case
19 <u>89</u> (e) Design Identification Name of Component	N/A 19 <u>N/A</u> Responsibilities <u>F</u> n of Components I Name of Manufacturer	Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	e Case(s) clear Oper , or Replac Nat. Board No.	ating Comp cement Con Other ID. 1B33-	or Replace any ponents Year Built	Repair, Replacement, or Modification	Code Case ASME Code Stamped
19 <u>89</u> (e) Design Identification Name of Component	N/A 19 <u>N/A</u> Responsibilities <u>F</u> n of Components I Name of Manufacturer	Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	e Case(s) clear Oper , or Replac Nat. Board No.	ating Comp cement Con Other ID. 1B33-	or Replace any ponents Year Built	Repair, Replacement, or Modification	Code Case ASME Code Stamped
19 <u>89</u> (e) Design Identification Name of Component	N/A 19 <u>N/A</u> Responsibilities <u>F</u> n of Components I Name of Manufacturer	Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	e Case(s) clear Oper , or Replac Nat. Board No.	ating Comp cement Con Other ID. 1B33-	or Replace any ponents Year Built	Repair, Replacement, or Modification	Code Case ASME Code Stamped
19 <u>89</u> (e) Design Identification Name of Component	N/A 19 <u>N/A</u> Responsibilities <u>F</u> n of Components I Name of Manufacturer	Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	e Case(s) clear Oper , or Replac Nat. Board No.	ating Comp cement Con Other ID. 1B33-	or Replace any ponents Year Built	Repair, Replacement, or Modification	Code Case ASME Code Stamped
19 <u>89</u> (e) Design Identification Name of Component	N/A 19 <u>N/A</u> Responsibilities <u>F</u> n of Components I Name of Manufacturer	Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	e Case(s) clear Oper , or Replac Nat. Board No.	ating Comp cement Con Other ID. 1B33-	or Replace any ponents Year Built	Repair, Replacement, or Modification	Code Case ASME Code Stamped
19 <u>89</u> , (e) Design Identification Name of Component Support	N/A 19 N/A Responsibilities <u>F</u> n of Components I Name of Manufacturer E-Systems	Addenda <u>N/A</u> <u>Cod</u> <u>IRSTENERGY Nu</u> Repaired, Modified Manufacturer Seriat No. B33 B33 d Snubber 1B33-G	e Case(s) clear Oper , or Replac Nat. Board No. None	ating Comp cement Con Other ID. 1B33- G7065A	or Replace	Repair, Replacement, or Modification Replacement	ASME Code Stamped Yes
19 <u>89</u> , (e) Design Identification Name of Component Support	N/A 19 <u>N/A</u> Responsibilities <u>F</u> n of Components I Name of Manufacturer E-Systems	Addenda <u>N/A</u> <u>Cod</u> <u>IRSTENERGY Nu</u> Repaired, Modified Manufacturer Seriat No. B33 B33 d Snubber 1B33-G	e Case(s) clear Oper , or Replac Nat. Board No. None	ating Comp cement Con Other ID. 1B33- G7065A	or Replace	Repair, Replacement, or Modification Replacement	ASME Code Stamped Yes
19 <u>89</u> , (e) Design Identification Name of Component Support	N/A 19 N/A Responsibilities <u>F</u> n of Components I Name of Manufacturer E-Systems of Work: <u>Replace</u> ed Snubber S/N C	Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No. B33 B33 G Snubber 1B33-G	e Case(s) clear Oper , or Replace Nat. Board No. None	ating Comp cement Con Other ID. 1B33- G7065A A, S/N 066	or Replace	Repair, Replacement, or Modification Replacement	ASME Code Stamped Yes

e e

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
5. Nomano.
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26 20 05
Date May 2_, 20 03_ Signed FENOC-PNPP QE (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 Boller and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by Hartford Steam Boiler Ct of Hartford, Conn have
inspected the repair, modification or replacement described in this report on <u>May 2</u> , 20 03 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 2_, 20 03_ Signed Thomas & Japa_ Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

### (CORRECTED COPY) 1.633-116 2.863 EDAM NE DIMAI UFACIUMERS OATA TREPORT FOR COMPONENT SUPPORTS : ASURE SUPPORTS : ASURE SUPPORTS : DATA TREPORT FOR COMPONENT SUPPORTS :

Incentered <u>Conteke01Vision Salt-Cateristy -II</u>

CERTIFICATE OF ACOMPLIANCE We can in denote a national meet in this record of the Correct and that there components account contour to any day of control that of the Asia Coord Control to a control that the component account of the second day of control to any Care Coord Control to a control to a control to a control to a list of the second day of control to a con

CERTIFICATION OF DESIGN E Systems a line - Montek Division ; Salti Lake City, UT

Seen Amori & Lov Charlin Dia Shan on fulli .E. Systems, Inc., Montek-Division, Sait-Lata City / UT

Derign Scerifications Circlified by 111-M.D. Potter PESsine 168

Seven Anerrik Report of Lond Constity Data Sherit Centiled by 111. Robert Lee Warren 111 Red No. 3942

Ill the name only, signature not required.

-11/761

- Muselemental sheet in term of diss, as inches or drawning may be used provided (1) also is (3% in., 12) intermetion in rooms 1, 2, 4c; 44 - of the definement is included on duch priority and (2) each prior is pumbered and humber of sheets is because at too of one term.

This form (E00075) & bysitable from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

PAGE NO.

FORM NE:1 (Back) 

# CERTIFICATE OF SHOP INSPECTION:

A value commission served by the National Board of Boiler and Pressure Vased Impectors and pressure and property (WROVA)-GIODE-Ins. Sultahes. here a column to the second se

y v selen ovin s still at the orthograph and a construction of the second 

Altier Bars ate Prest and Me 

the underspred the diagonal did commission reason by the National Board of Bolies and Presson Vessel Impre prints of a second s

ning this Certificate Indian in a Incorporation and Walker Indiana International Certificate Indiana (in a Incorporation on the employee makes any warrant) represented of employee (in a International Internationa A. 8 X.4. 

Not'l Ba State Prova anas 1.20

13.4

1833-116 3063 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. Menutacturer for	General Electric Company, San Jose, California
	(Name and address of purchaser or evenus)
1 Location of Immilation	Perry I Nuclear Power Plant, Recirc. System, North Perry, Ohio

(a) Component	(b) Canadian	(c) Acolica		(d) Stress Report	(e) Type of	(f)	ig)	(h)
Support I.D. No.	Registration No.		with	or Load Capa- city Data Sheet	Component Support	Classe	Net'l Board No.	Year Built
065	N/A	152248C	LCD	152000-602-19	Linear	1	None	1978
066		H	4				- <b>A</b>	4
067	*	N	н		H ANAL A	R	4	N
068		*	n		R	. <b>j</b> i	ě.	4
069	R	#		·····	45	48	10	31
070	*	*	N		16	- 4	8	
071	11	11	*		N			
072	*	<b>H</b>			H	- u -	N	
1021	×	152253C	*		*			
022		4	4			- 91	, <b>N</b>	et

### CEIC Contract P-1008-L

<b></b>	
	CERTIFICATE OF COMPLIANCE
W	le cartify that the statements made in this report are correct and they there components supports conform to the rules of construction
đ	the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition Addends (Desti
19	the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1974 Addenda Winter 1970. ode Case No. 1644-4. 1682-1, 1706. are 30 Sept. 1978 Signed E-Systems, Inc., Montek Div. by
10	(Manufacturer) W.S. Enright
	ur ASME Certificate of Authorization No. 1356 to use the NPT
ľ	

. .

Symbol expires 1 March 1979

2.1

Design Information on File at		CERTIFICATION OF DESIGN
Stress Report or Loed Capacity Data Sheets on File at: E-Systems, Inc., Montek Division, Salt Lake City, Utah Design Specifications Certified by (1)Robert Lee Warren III res. No Stress Analysis Report or Loed Capacity Data Sheets Certified by (1)Robert Lee Warren III PE StateUtah Stress Analysis Report or Loed Capacity Data Sheets Certified by (1)Robert Lee Warren III PE StateUtah Reg. No (1) Lat norms enty, signeture not required. *Succilemental sheets in form of Nets, sketches or gravings may be used provided (1) atso is 2% in., 12) information in items 1, 2, 4c. 4 on this data report is included on each sheet, and (2) each sheet is numbered and number of sheets is recorded at top of this form.	Cusion Information on	Filest E-Systems, Inc., Montek Division, Sait Lake City, Utah
3942         Stress Analysis Report or Load Capacity Data Sheets Certified by (11Robert Lee Warren III         PE State       Utah         Reg. No3942         (1) List nome only, signature not required.         "Supplemental sheets in form of Nets, sketches or drawings may be used provided (1) size is 2% in., 12) information in items 1, 2, 4c. 4 on this data report is included on each sheet, and (2) each sheet is numbered and number of sheets is recorded at top of this form.		Concerts: Dam Charge of Elle of
PE StateUtchReg. No3942 (1) List name entry, signature not required. *Supplemental sheets in form of Nets, skatches or drawings may be used provided (1) size is \$5 in., 12) information in items 1, 2, 4c. 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.	3942	Caratiles by (1)Robert Lee Warren 111 PE State_Utah
(1) List name only, signature not required. •Supplemental sheets in form of Hets, sketches or drewings may be used provided (1) size is \$% in., 12) information in items 1, 2, 4c, 4 on this data report is included on each sheet, and (2) each sheet is numbered and number of sheets is recorded at top of this form.	Street Analysis Report	t or Load Capacity Data Sheets Certified by (1) Robert Lee Warren (1)
•Supplemental sheets in form of Note, eleschoe or drawings may be used provided (1) size is \$5 m., 12) information in items 1, 2, 4c, 4 on shis data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.	PE StateUtah	1 Reg. No 3942
en 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) List norms only, sig	ineture not required.
	et	In form of Nate, elements or drawings may be used provided (1) size is \$55 m., 12) Information in items 1, 2, 4c.
	en this data report is i 1/763	This form (E00075) is evailable from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 1001

### FORM NF-1 (Back)

### CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a velid commission issued by the National Board of Bolier and Pressure Vessel Inspectors and the State or Province of <u>Utah</u>, and employed by<u>Royal Indemnity Ins. Co</u> et <u>New York</u>, <u>New York</u> have inspected the component supports described in this Manufacturer' Date Report on<u>September 30</u>, 19<u>73</u>, and state that to the best of my knowledge and belief the Manufacturer hee constructed these component supports in accordence with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer mekes any warranty, expressed or implied, concerning the component supports Jacribed In this Menufacturers' Data Report. Furthermore, neither the Inspector nor his employer shall be lisble in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Dette 9/30/78 e ki Utah 2 (Net') Bd., Steps, Prov., and No.)

### CERTIFICATION OF FIELD INSPECTION

I, the undersigned, holding a velid commission issued by the National Board of Boiler and Pressure Vessal Impectors and the State or Province of \_\_\_\_\_\_\_ of \_\_\_\_\_\_ and employed by \_\_\_\_\_\_\_

By signing this certificate neither the Impector nor his employer mekes any warranty, expressed or implied, concerning the component supports described in this Manufacturers' Data Report, Furthermore, neither the Impector nor his employer shell be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this impection.

Commissions.

**1** 

(Nat'l Sd., State, Prov., and No.;

PAGE NO. 2K

Care

Signed

4

÷

- m.

÷

B	3	3-	0	ł	2	7
---	---	----	---	---	---	---

	lev. 9/11/00			e ASME Co			NQI-1741
. Owner:	FIRS	TENERGY CORP.				Date 05/02/03	
		Road, Perry, Ohio	44081	· · · · ·	,	Sheet 1 of	3
2. Plant:		lear Power Plant (F				Unit <u>1</u>	<u> </u>
	10 Center I	Road, Perry, Ohio	4081			01-016599-000, (Repair Org. P.O. N	
. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	pany PNPP		Type Code Syml	bol Stamp <u>N</u>
	<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>	*	Authorization No	33
						Expiration Date	9-26-05
. Identificatio	n of System: Rea	ctor Recirculation	System Pu	mp "A"		- <u></u>	
i. (a) Applicat	ble Construction Co	ode: <u>ASME Sec III</u> NAME/SECT	. Subsection	on , NF-1	·	,19 <u>74</u> Editi	on
Winter	19 75	NAME/SECT Addenda Code			1		
<u>118.001</u>	10 10		0000(0) 1	120, 1011	•		· <u>·············</u>
(b) Constru	iction Code used f	or repairs, modifica	ations, or r	eplacement			<u>N/A</u>
(c) ASME	Code Section XI or	policable for Incom	ice Inchec	tion		ition Addenda	Code Case
(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	1989		<u>N/A</u>
(d) Applica	ble Edition of Secti	ion XI Utilized for F	Repairs, Mo		<u>1989</u> Ed	Ition Addenda	<u>N/A</u>
(d) Applica	ble Edition of Secti	ion XI Utilized for F Addenda <u>N/A</u>	Repairs, Mo		<u>1989</u> Ed	Ition Addenda	<u>N/A</u>
(d) Applica 19 <u>89 ,</u> (e) Design	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u>	ion XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu	Repairs, Mo e Case(s) clear Oper	odification,	<u>1989</u> Ed or Replac	ition <u>N/A</u> Addenda cements:	<u>N/A</u>
(d) Applica 19 <u>89 ,</u> (e) Design	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u>	ion XI Utilized for F Addenda <u>N/A</u> Cod	Repairs, Mo e Case(s) clear Oper	odification,	<u>1989</u> Ed or Replac	<u>N/A</u> ition Addenda cements:	<u>N/A</u> Code Case
(d) Applica 19 <u>89 ,</u> (e) Design	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u>	ion XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu	Repairs, Mo e Case(s) clear Oper	odification,	<u>1989</u> Ed or Replac	ition <u>N/A</u> Addenda cements:	N/A Code Case ASME Code
(d) Applica 19 <u>89</u> , (e) Design Identification Name of	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components f Name of	ion XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer	Repairs, Mo e Case(s) clear Oper , or Replac Nat. Board	ating Comp comment Comp Other	<u>1989</u> Ed or Replace pany nponents	ition <u>Addenda</u> ements: Repair, Replacement,	N/A Code Case ASME Code
<ul> <li>(d) Applica</li> <li>19 89 ,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> </ul>	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components f Name of Manufacturer	ion XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Oper , or Replace Nat. Board No.	odification, ating Comp cement Corr Other ID. 1B33-	<u>1989</u> Ed or Replace pany nponents Year Built	N/A Addenda cements: Repair, Replacement, or Modification	N/A Code Case ASME Code Stamped
<ul> <li>(d) Applica</li> <li>19 89 ,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> </ul>	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components f Name of Manufacturer	ion XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Oper , or Replace Nat. Board No.	odification, ating Comp cement Corr Other ID. 1B33-	<u>1989</u> Ed or Replace pany nponents Year Built	N/A Addenda cements: Repair, Replacement, or Modification	N/A Code Case ASME Code Stamped
(d) Applica 19 <u>89</u> , (e) Design Identification Name of Component	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components f Name of Manufacturer	ion XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Oper , or Replace Nat. Board No.	odification, ating Comp cement Corr Other ID. 1B33-	<u>1989</u> Ed or Replace pany nponents Year Built	N/A Addenda cements: Repair, Replacement, or Modification	N/A Code Case ASME Code Stamped
<ul> <li>(d) Application</li> <li>1989,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> </ul>	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components f Name of Manufacturer	ion XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Oper , or Replace Nat. Board No.	odification, ating Comp cement Corr Other ID. 1B33-	<u>1989</u> Ed or Replace pany nponents Year Built	N/A Addenda cements: Repair, Replacement, or Modification	N/A Code Case ASME Code Stamped
<ul> <li>(d) Applica 19<u>89</u>,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> <li>Support</li> <li>Support</li> <li>Description</li> </ul>	ble Edition of Section <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components f Name of Manufacturer E-Systems	ion XI Utilized for F Addenda <u>N//</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No. B33 G Snubber 1B33-G	Repairs, Ma e Case(s) clear Oper , or Replace Nat. Board No. None	odification, ating Comp cement Cor Other ID. 1B33- G7070A	1989 Ed or Replace pany nponents Year Built 1978	N/A Addenda cements: Repair, Replacement, or Modification	N/A Code Case ASME Code Stamped Yes
<ul> <li>(d) Applica 19 <u>89</u>,</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> <li>Support</li> <li>Support</li> <li>Description</li> </ul>	ble Edition of Section <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components f Name of Manufacturer E-Systems	ion XI Utilized for F Addenda <u>N//</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No. B33 G Snubber 1B33-G	Repairs, Ma e Case(s) clear Oper , or Replace Nat. Board No. None	odification, ating Comp cement Cor Other ID. 1B33- G7070A	1989 Ed or Replace pany nponents Year Built 1978	N/A Addenda ements: Replacement, or Modification Replacement	N/A Code Case ASME Code Stamped Yes

--- -- --

-

· • •

9	Remarks: )
	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEIN FFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	ote: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, o drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 o report is included on each sheet, and (3) each sheet is numbered and the number of sheets is rec the front of this form.
	CERTIFICATE OF COMPLIANCE         I, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report correct and the repair, modification or replacement of the items described above conforms to Section XI of the A Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 (2000)         Date May 2 20 03 Signed FENOC-PNPP (authorized representative) (Little)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, Thomas G. Laps      , holding a valid commission issued by The National Board of Boil         Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of       OHIO         and employed by Hartford Steam Boiler Ct.       of Hartford, Conn.         inspected the repair, modification or replacement described in this report on, 20 03 and state that the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance.         Section XI of the ASME Code and the National Board Inspection Code "NR" rules.         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 lial any manner for any personal injury, property damage or loss of any kind arising from or connected with this insp         Date May 2

-----

<u>P</u>

Ľ

PAGE NO.

ALTER STATES

وسكنيوني		As Requir	ed by the l	Provisions	DATA REPORT FO	Rules, Section	on III, Dh		
1, Mar	nufactured to	γE	-Systems	,Inc., M	(Name and address of	Salt Lake	City,	Utah	
2. Mar	nufacturer fo				Cmpony, Son Jo Name and address of p				<u> </u>
	ation of Inst ntification	alletionP	erry I Ni	uçlear Po	wer Plant, Rea	irc. System	1, Nori	h Perry, O	hio
Su	(a) nponent upport D. No.	(b) Canadian Registratio No.	n Drav	(c) oplicable vinga with lev. & Data	(d) Stress Report or Loed Capa- city Data Sheet	(a) Type of Component Support	(f) Glass	(g) Nar'i Boerd No.	(h) Year Bui
(1)_2		N/A	152605A		0152000-602-7	Linear	<u> </u>	None	1978
(2)_2 (3)_2		M	N	<u> </u>			#		••••••••••••••••••••••••••••••••••••••
(4)_2		м	*			N.		4	41
(5) 2	79	18	11	61		· (1)	H	n	n
(6)_2	80	N	8	4		*	н	R	
(7)_0 (8)_0	53	H	152610		0152000-602-8	······		H	85 
(9) 0		10	н			N			<b>H</b> -
(10) 0	56	К	14	89.		*	"	16	<u>n</u>
5. Aerr				CERTIFIC	agt P-1008-1. Cate of compli	INCE		· · · · · · · · · · · · · · · · · · ·	······
We cars	ify that the	4-4.1687	made in this Nower Plant C 2-1 , 1706	CERTIFIC reportere da componenta, s tems, inc.	CATE OF COMPLU metand the mass co Section III, Division 1, ., Montek Div.	INCE Information success Edition 1973	12,	m to the roles of grass Winter	reconstruction 1976 Date:
We carr of the A Code Ca Data 30	ify that the ASME Code are No. 164 D Sept. 1	4-4, 1687 1978 s	made in this forwar Plant C 2-1, 1706 Igna, E-Sys	CERTIFIC reportere con componenter componenter componenter tems, inc.	CATE OF COMPLIE metand that the co Section III, Division 1, ., Montek Div.	NCE Edition 1977	hright	m to the rates of grade Winter	Construction 1976 Date:
We cart of the A Code Ci Data 30 Our ASI	ify that the ASME Code I are No. 164	4-4, 168; 1978 S	made in this Fower Plant C 2-1, 1706 igned <u>F-Sys</u> rization No	CERTIFIC reportere da componenta, s tems, inc.	CATE OF COMPLU metand the mass co Section III, Division 1, ., Montek Div.	NCE Edition 1977	hright	ny ll.	(201411/0218 1976 Datei
We cart of the A Code Ci Data 30 Our ASI	tify that the ASME Code I are No.164 D Sept. 1 ME Cartifics	4-4, 168 1978 s te of Author Morch 19	made in this Fower Plant C 2-1, 1706 igned <u>F-Sys</u> rization No	CERTIFIC report are con components, s tems, in c. (Mainut 1356	CATE OF COMPLIE metand that the co Section III, Division 1, ., Montek Div.	WCE HENE HOOSE Edition Edition Edition Edition  W.S. Et  NP	hright T	ny ll.	Construction 1978 Date:
We cart of the A Code Ca Date 30 Our ASI Symbol	tify that the ASME Code I are No.164 D Sept. 1 ME Cartifics	4-4, 1683 1978 st te of Author Morch 19 (Dere)	made in this Fower Plant C 2-1, 1706 igned E-Sys rization No	CERTIFIC report are con components, s terms, inc. (Merini 1356	CATE OF COMPLIA metand that there co Section III, Division 1, . , Montek Div . Section y to use the	WCE Monimum subject Edition	hright T INP	neyll.	
We carr of the A Code Code Code Data 30 Our ASI Symbol Design I	ify that the ASME Code I are No.164 D Sept. I ME Cartifics expires 1 A	4-4, IAB 1978 st te of Author March 19 (Dete)	made in this fower Plant C 2-1, 1706 igne <u>E-Sys</u> ization No 79 E- Data Sheets c	CERTIFIC report are con component, s tems, inc. (Mainur 1356 	CATE OF COMPLIA metand that make co Section III, Division 1, ., Montek Div. 	WCE ISONETING ELOPE Edition by W.S. El NP W.S. El NP IGN Division, S	hright T alt Lok	e City, Un	Date:
We cart of the A Code Ca Date 3C Our ASI Symbol Design I Stress R	ify that the ASME Code I are No.164 D Sept. ME Cartifics expires 1 A Information Report or Los Specification 3942	4-4, 1683 1978 st ts of Author March 19 (Dets) (Dets) on File st_	made in this Fower Plant C 2-1, 1706 igned E-Sys ization No 79 E- Data Sheets C E-	CERTIFIC report are con components, sinc. (Menor 1356  CERTIN Systems, Systems, Systems,	CATE OF COMPLIE The section III, Division 1, 1 Section III, Division 1, 1 ., Montek Div. 	WCE ISONETING ELOPE Edition by W.S. El NP W.S. El NP IGN Division, S	Aright T INP	e City, Un	Date:
We cart of the A Code Co Date 30 Our ASI Symbol Design I Stress R Design S Reg. No Stress A	ify that the ASME Code I are No.164 D Sept. ME Cartifics expires 1 A Information Report or Los Specification 3942 unstysis Report	4-4, 1683 1978 Si ts of Author <u>Acrch 19</u> (Date) (Date) (Date) (Date) (Caracity ( a Certified b	made in this Fower Plant C 2-1, 1706 igned E-Sys izstion No 79 E- Data Sheets c E- y (t)RO  Capacity Data	CERTIFIC report are con components, sinc. (Meinuf 1356 1356 CERTIF Systems, on File st: Systems, bort Leo	CATE OF COMPLIA Wetand that there co Section III, Division 1, a ., Montek Div. 	WCE IDIAN BLOCK Edition W.S. En W.S. En NP IGN Division, So IVISION, So PE State	Aright T INP	e City, Un	Date:
We cart of the A Code C Data 30 Dur ASI Symbol Design I Stress R Design S Reg. No	ify that the ASME Code I are No.164 D Sept. ME Cartifics expires 1 A Information Report or Los Specification 3942 unstysis Report	4-4, 1683 1978 Si ts of Author <u>Acrch 19</u> (Date) (Date) (Date) (Date) (Caracity ( a Certified b	made in this Fower Plant C 2-1, 1706 igned E-Sys izstion No 79 E- Data Sheets c E- y (t)RO  Capacity Data	CERTIFIC report are con components, s tems, inc. (Mainur 1356 	CATE OF COMPLIA Material for the constant Section III, Division 1, ., <u>Montek Div.</u> Educer FICATION OF DES Inc., <u>Montek D</u> Varren [1]	WCE IDIAN BLOCK Edition W.S. En W.S. En NP IGN Division, So IVISION, So PE State	Aright T INP	e City, Un	Dater:

(1/76)

.

A second marks the second second

. . . . . .

This form (E00075) is evailable from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017



154

### 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 <u>Utah</u>, and employed by Royal Indential hypothyse Go et <u>New York</u>. <u>New York</u> have inspected the component supports described in this Manufacturers'. Data Report on <u>September 30</u>, 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 wettenty, expressed or implied, concerning the components supports ascribed in this Manufacturers' Date Report. Furthermore, neither the inspector nor his employer shall be lifelie in any manner for any personal injury or property damage for a loss of any kind artising from or connected with this inspection.

Date 9/30/78 Rockelo Utch 2 Commissions Signed (Nat'l Bd., State, Prov., and No.)

### CERTIFICATION OF FIELD INSPECTION

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed in implied, concerning the co

Commissions

Oate\_\_\_\_\_.

Sign

1000

----

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

a series and the second se

# (CORRECTED COPY)

FORM NETEMANUFACTURERS DATA REPORT FOR COMPONENT SUPPORTS

### A Menulecture by T-Systems Inc. Pontek Division Sait Jave City, 11

(006) N/AVIE 15/210/01/69/21(CD152000-602/10) PART 1 (2005) ENTER A SPUEL AS A SPECIAL AND A 56.1 時になったのの EDAD BOSEAN SELECTION OF A CONTRACT CALL AND TO T CTALLAS NO. Annul English and a second s

CERTIFICATEROF COMPLIANCE CERTIFICATEROF COMPLIANCE Ministry of the statement made in the model and order that there component model and on the net of a city time and the statement made in the model and order the doriver that there component model and the complete the statement of the statement made in the model and the statement model and the complete the statement of the statement made in the statement and the statement model and the statement of the sta

ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESIGN ACENTRICATION OF DESI

Conign Specification Contined by (1). MOT POLLER PE State CA

[1] List neme only, signature not required,

"" Supplemental electris in form at littl. Senther of dennings may be used previded (1) size (s. B., m., (2) intermetion in learns 1, 2, 4c, 4 In mile de la fauera la activate an each giver, and (2) fach shart is numbered and number of states a recorded of the form.

the state of the state of the state

(1/76)

the second second second

This form (E00075) is evaluable from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

PAGENO

### FORM NF-1 (Back)

# CERTIFICATE OF SHOP INSPECTION

No.

Velgang muscenticates region in tippeeter nor his end 2005 in Pactored in Tubli Many (express Daus Record af 211 Dec. 1981 3 Dett 1221maard(UA) XIIItaha

CONTRACTION OF FIELD INSTECTION

 Control of Antibility of Alexandromy of Alexandromy for A Y signing this Comilicate decline (not) intended not his employee makes any mercenty, expressed by mplind, concern appoint described in this Manufacturiers (Day Report Furthermore, Section, the Inspector not his employer shall b million any personal his/fy proposity densign or a loss of any kind arbitring from or connected with this impletion. ng the co all be liable in a 121

e en es ٦.

				l	<u>B33</u>	5-118	
NIS-2	2/NR-1 OWNE As rec Rev. 9/11/00	R'S REPOR quired by the Provi					ENTS
1. Owner:	FIRST	TENERGY CORP.				Date 05/02/03	
-		Road, Perry, Ohio				Sheet <u>1</u> of	
2. Plant: _	Perry Nucl	lear Power Plant (P	<u>NPP)</u>			Unit <u>1</u>	
-	10 Center F	Road, Perry, Ohio 4		· · ·		<u>01-016598-000,</u> (Repair Org. P.O. N	
3. Work Perf	formed By:FIRSTE	NERGY Nuclear Op	erating Corr	pany PNPP		Type Code Symt	ool Stamp <u>N</u>
	,	enter Road, Perry,				Authorization No.	
						Expiration Date	9-26-05
4. Identificati	on of System: Read	ctor Recirculation {	Svstem Pu	mp "A"			
5. (a) Applica	able Construction Co	ode: <u>ASME Sec III,</u> NAME/SECT	<u>, Subsection</u>	on , NF-1 N/CLASS		,19 <u>74</u> Editi	on
<u>Winter</u>	r 19 <u>75</u> /	Addenda Code	Case(s) <u>1</u>	<u>728, 1644-4</u>	<u></u>		<u></u>
(b) Constr	ruction Code used for	or repairs, modifica	ations, or re	eplacement		W75 Ition Addenda	N/A Code Case(s
(c ) ASME	Code Section XI ap	plicable for Inservi	ice Inspect	tion:	<u>1989</u>	ition Addenda	N/A Code Case(s
	able Edition of Section		tepairs, Mo	odification, o	or Replac	ements:	
	<u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> I	Code	e Case(s) clear Oper	ating Comr	anv		
	on of Components F						
Name of Component	Name of	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Support	E-Systems	833	None	1B33- G7069A	1978	Replacement	Yes
	1		[				<u>  </u>
							11
. Description	of Work: <u>Replaced</u> sembly from S/N 05	<u>I Snubber 1B33-G(</u> 55	006-374A,	S/N 057 wi	ith S/N 00	)5 which was rebui	LI It using the
3. Test Condu	ucted: Hydrostatic	Pneumati	ic- 🗌 🕴	Iominal Op	erating P	ressure- 🗌 Oth	er- 🔲
Pressure <u>1</u>	<u>N/A</u> psi Te:	st Temperature <u>N/</u>	<u>/A</u> d	legrees F	Code	Case(s) <u>N/A</u>	

۰.

PNPP No. 9308	Rev. 9/11/00			<u> </u>		NQI
9. Remarks:	•					
,,,,,,,,,,,,,,,,,,,,,,,,,,,			·······			
	<u>-</u>					
	LATE/STAMPI			INTERFACE CONTRO	OLS OF RA-23	70 BEING
				ENCE HAVING BEEN		
·····	, <u>, , , , , , , , , , , , , , , , , , </u>			······································		
				Supplemental sheets su		
repor	ngs may be us t is included or	sed, provided ( n each sheet a	1) size is 8 1/2 in. and (3) each shee	x 11 in., (2) information t is numbered and the n	umber of sheet	ugn 6 of tr ts is record
	ont of this form					
					•	
				CONDUANCE		
	Erbacher		CERTIFICATE OF		mente made la il	hte research e
correct and	d the repair, mo	dification or repl	lacement of the iten	ledge and belief the state is described above confor	ments made in a ms to Section XI	l of the ASM
		•	n Code "NR" rules.			
National B	oard Certificate	of Authorization	No33	_ to use the "NR stamp	expires <u>9-26</u>	, 20 <u>05</u> _
Date <u>May</u>	<u>2</u> , 20 <u>03</u>	Signed	FENOC-PNPP	(authorized represed	QE QE	(title)
		(name o	Topul ofganzadony			(nucy
	~ .					
				d commission issued by T		
	•		• •	ued by the jurisdiction of		
				of <u>Hartford, Conn.</u>		
		ification or replace	cement described in	this report on <u>May 2</u> .		
inspected						cordance w
inspected the best of	f my knowledge			or replacement has been	completed in act	
inspected the best of	f my knowledge			or replacement has been ion Code "NR" rules.	completed in act	
inspected the best of Section XI	f my knowledge of the ASME C	ode and the Nat	ional Board Inspect	-	-	
inspected the best of Section XI By signing	f my knowledge of the ASME C this certificate,	code and the Nat , neither the unde	tional Board Inspect ersigned nor my em	ion Code "NR" rules.	ly, expressed or	implied,
inspected the best of Section XI By signing concerning	f my knowledge of the ASME C this certificate, g the work desc	Code and the Nat , neither the unde cribed in this repo	lional Board Inspect ersigned nor my em ort. Furthermore, ne	ion Code "NR" rules. ployer makes any warrant	ly, expressed or my employer sh	implied, all be liable
inspected the best of Section XI By signing concerning any manne	f my knowledge of the ASME C this certificate, g the work descu er for any perso	Code and the Nat , neither the unde cribed in this repo onal injury, prope	tional Board Inspect ersigned nor my em ort. Furthermore, ne erty damage or joss	ion Code "NR" rules. ployer makes any warrant ither the undersigned nor of any kind arising from or	ly, expressed or my employer sha connected with	Implied, all be liable this inspec
inspected the best of Section XI By signing concerning any manne	f my knowledge of the ASME C this certificate, g the work desc	Code and the Nat , neither the unde cribed in this repo onal injury, prope	tional Board Inspect ersigned nor my em ort. Furthermore, ne orty damage or joss	ion Code "NR" rules. ployer makes any warrant ither the undersigned nor of any kind arising from or Commissions NB 93	ly, expressed or my employer sha connected with	Implied, all be liable this inspec lio Comm. endorsemel

\_\_\_\_\_ · · ·

-----

(CORRECTED COPY) 1833=118 2053 FORM NF-1 MANUFACTURERS' DATA REPORT FOR COMPONENT SUPPORTS' As Regulred by the Provisions of the ASME Code Rules, Section III, Division 1

	<u> </u>					<b>1</b>
2. Manufacturer for	Generai	<u>lectric </u>	Nome and sources	Jose Cail	fornia	
). Location of Initi	HationBlack	CFox 1 R.	S., Tulsa,	Oklahoma 74	1102	
4. Identification					m s	) (h)
(a) Component		fc) Applicable	(id) Stress Report	le) Type of		
Support		Rer & Date	er Load Capa- city Data Sheet	Component		Board Vest, Built
(1) (S10150)	SNYAY T. 1575		LCD152000-6	02 -l'inear	905 <u>000</u> 986	one 1981
(005) (012-018	112	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	11		2010 - 10 - 10 - 10 - 10 - 10 - 10 - 10	ANNA SAMADON. ANNA SAMADONA
(4) 040	A State of the second se				4	
(5) <u>*039</u>	in a sufficiency of					
(6) <u># 042</u>		indes sine and the Constant of the	1973-1973-1974 14 - Martin 1974		4-1-1-1 	ALE
-(ie)	AL MARKAGE		A MEXAN			
(9)					Service Products	A CARA CONT
(10) <u></u>	±-10-c	orrect cle	rical erro	- babba	1 54 4/6	The CARINE
		William Constant	2,1055,100,21			
<u></u>	Mart at at standbart established then it	Joseff Jack Mersia		66 - RASE - 405 - 4 1	<u>.)</u>	
		Mar Shield			1997 - 1998 - 1997 - 1997 - 1997 1997 - 1997 - 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	
	statements made in	CERTIFI	CATE OF COM	No start love - all the set		a rulat of construction
1. S W	lar Nuclear Power Pla	nt Components.	Section III, Divisio	n 1. Edition 197	. Addende	Winter 1977-
	44-8-1682-1,1				. An	W.C.
	., <u>1981 Signed E.</u>		lociu/er)		Lynch /-	<b>E</b> A
Our ASME Carrillo	ite of Authorization A	io <u>. 1356</u>	to u	e the N	PT INPTI	<u></u>
	1 March 198	2				
	(Date)		an training and	entre Er de Alexandre		(- <b>-</b>
<u>15/73986-54588</u>						<u> </u>
			FICATION OF			
Design Information	on File st	ystems, I	nc., Montek	Division,	Salt Lake C	ity.UT
Stress Report or Lo	ad Capacity Data She	ets on File et:				
	E+S	ystems, I	nc., Montek	Division.	Salt lake C	lty, IIT
Design Specification	a Cartified by (1)	M.D. Pott	er	PE State	A	
	5904					• •
	ort or Losd Capacity	Deta Shanta Carr	line him Rot	ort Leo Van	ren III	
E State Utal	1 A A A A A A A A A A A A A A A A A A A		3942	<u>E</u> NO(	. 20 111	
	<u></u>	. rug. No	<u> </u>	- •		
II List name only,	signature not requires	L	•			· .

(1/76)

Ę

\$

1

This form (E00075) is evailable from the Order Dept., ASME, 345 E, 47 St., New York, N.Y. 10017

PAGE NO

### FORM NF-1 (Back)

and the second second states and and and a second second

### CERTIFICATE OF SHOP INSPECTION

Li the undersigned, holding a valid commission issued by the National Board of Boilar and Pressure Vassel Inspectors and the State or Province of <u>Utah</u> and employed by Royal Globe Ins. of <u>New York. New York</u> New York. New York <u>Peccipal</u> and state of the component supports described in the Manufacturers' Data Report on <u>Deccipal</u> 1991: and state the test of my knowledge and belief the Manufacturer has constructed these component supports in accordance with the XSME Code for nuclear Kower Plant Components.

By signing this sections from the internet of his employer makes any mercury, storaged or employer and the someonem Apploy it described in this Manufacturier. Data report - Furthermore, neither the impector, nor his employer shall be liable in ser manner for any personal mours by cooperty canope or a loss of any kind withing from or connected with this impection. noloyet makes any warranty, expressed or emplied, cond orie 11 Dec. 1981

Ball State Providend Mall

### MICERTIFICATION OF FIELD INSPECTION 61967401

rtificate neither the Inspector nor his employer makes any warrenty, expressed or implied, concerning the compo I in this Manufecturers "Data Report." Furthermore, neither the Inspector nor his employer shall be liable in any for any personal injury or property derives or a loss of any kind scieling from or connected with this impection.

INer Id. Siete Cov. end Net

and the second One 12/

(-)

E NO

and the stration

PAGE NO. 2

1833-118 3063

FORM NF-1 MANUFACTURERS' DATA REPORT FOR COMPONENT SUPPORTS' As Required by the Provisions of the ASME Code Rules, Section III, Division 1

### E-Systems, Inc., Montek Division, Salt Lake City, Utah (Name and address of manufacturer) 1. Manufactured by\_

General Electric Company, San Jose, California 2. Manufacturar for

Perry 1 Nuclear Power Plant, Recirc. System, North Perry, Ohio 3. Location of Installation\_

(b) Canadian		hia	(d) Strant Facort	(a) Type of	(f)	(g)	(h)
	n Drawings	with	or Losd Capa- city Deta Sheet	Component Support	Class	Nat'l Board No.	Year-Built
N/A	152605A	LCD	152000-602-7	Linear	ł	None	1978
-14	N	N			68	н	N
*	11			H.		8	86
11	11	94		19	10	4	18
10	11	n		10		n	11
N .	*	M			11	*	.16
N	152610	LCD	152000-602-8	16	A	64	18
н	H	#			ч	60	30
10	и	n -		10	**	4	48
10	11	60		N	64	*	11
	Canadian Registratio Ng. N/A H H H H H H H H H H H H H H H H H H H	Canadian Registration         Applica Drawinga Last Rev. 4           No.         Last Rev. 4           N/A         152605A           H         H           H         H           H         H           H         H           H         H           H         H           H         H           H         H           H         H           H         H           H         H           H         H           H         H           H         H           H         H	Canadian Registration         Applicable Drawings with Last Rev. & Data           N/A         152605A         LCD           H         H         H           H         H         H           H         H         H           H         H         H           H         H         H           H         H         H           H         H         H           H         H         H           H         H         H           H         H         H           H         H         H           H         H         H	Canadian Registration         Applicable Drawings with Last Rev. & Oats         Strest Report or Load Capa- city Deta Sheet           N/A         152605A         LCD152000-602-7           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N           N         N         N	Canadian Registration         Applicable Drawings with Last Rev. & Data         Stress Report or Losd Capa- city Data Stiert         Type of Component Support           N/A         152605A         LCD152000-602-7         Line Gr           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N           N         N         N         N	Canadian Registration         Applicable Drawings with Last Rev. & Data         Stress Report or Loed Capa- city Data Stiert         Type of Component Support         Component Component           N/A         152605A         LCD152000-602-7         Line Gr         I           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N         N         N         N           N         N	Canadian Registration     Applicable Drawings with Last Rev. & Oato     Stress Report or Load Capa- city Data Street     Type of Component Support     Nat'l Board Class       N/A     152605A     LCD152000-602-7     LineCir     I     None.       II     II     II     II     II     II       II     II     II     II     II     II

### CEIC Contract P-1008-L

	· .				
	CERTIFICATE OF				
We cartify that the statements made in this rep	ort are connect and th	at these compone	nu succora cunto	m to the rules of com	muction
of the ASME Code for Nuclear Power Plant Com	ponents, Section III;	<b>Olvision 1, Editio</b>	n_1974_ Ad	gende Winter 1	A division of the local division of the loca
Corda Cana Ma 1644 = 4 1687 = 1 1706			111 1 1	(Date)	
Data 30 Sept. 1978 Signed E-System	ms, Inc., Monte	k Div.	W. I.L.	mull.	
	(Memifecturer)	N.	S. Enright		
Our ASME Certificate of Authorization No.	1356	na une chie	NPT		·
			INF	T)	
Symbol expires 1 March 1979	_				
(Cate)	•				

CERTIFICATION OF DESIGN E-Systems, Inc., Montek Division, Salt Lake City, Utah Design Information on File st. Stress Report or Load Capacity Data Sheets on File at: E-Systems, Inc., Montek Division, Salt Lake City, Utah Robert Lee Warren III PE Sinc Utah Design Specifications Certified by (1).... 3942 Reg. No Stress Analysis Report or Load Capacity Data Shorts Cartified by (1) Robert Lee Warren III Utah 3942 \_ Reg. No.\_\_\_ PE State. (1) List name only, signature not required.

"Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8% in., (2) information in items 1, 2, 4c, 4g on this data report is included on each sheet, and (3) each sheet is numbered and number of sheats is recorded at top of this form.

(1/76)

-----

.....

and the second 
This form (E00075) is evallable from the Order Dept., ASME, 345 E, 47 St., New York, N.Y. 10017

and the second free states and the states of the second states and the second states of the second states of the

### FORM NF-1 (Back)

### CERTIFICATE OF SHOP INSPECTION , 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 companient supports in accordance with the ASME Code for Nuclear Power Plant Components. By signing this cartificate, neither the inspector nor his employer makes any wertanty, appressed or implied, concerning the component supports Jescribod in this Manufacturers' Date Report. Furthermore, neither the Impactor nor his employer shall be lighte in any manner for any personal injury or property damage or a loss of any kind artising from or connected with this impection. Data 9/30/78 Cachelo Utch 2 Signed ommissions (Nat'l Sd., State, Prov., and No.) CERTIFICATION OF FIELD INSPECTION I, the undersigned, holding a valid commission instead by the National Board of Bollar and Pressure Versal Impactors and the State of Province of\_ \_ and employed by \_\_\_\_ \_ of \_ -have compared the statements in this Manufacturers Data Report, with the described component supports Inspected by me and that to the best of my knowledge and belief the Manufacturer has constructed these component supports in accord ance with the ASME Code for Nuclear Power Plant Components: By signing this certificate neither the Inspector nor his employer makes any waitenty, expressed of implied; concerning the component supports described in this Manufacturers' Data Report. Furthermore, neither the Indector nor his employer shall be lisbe in any man ner for any personal injury or property dantisgs or a loss of any kind articles from or connected with this impection. Date

Signad....

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

PAGE NO. 2.G

Commissions

and the second secon

					1	B33-119				
NIS-2	/NR-1 OWNE As re	R'S REPOR					ENTS NQI-1741			
		<u> </u>	÷	·····						
1. Owner:		TENERGY CORP.				Date 05/02/03				
	10 Center F	10 Center Road, Perry, Ohio 44081 Sheet 1								
2. Plant:	Perry Nuclear Power Plant (PNPP) Unit 1									
£. 1 Kanta		Road, Perry, Ohio				00-002079-000.	R-0			
		<u></u>				(Repair Org. P.O. I	and the second secon			
3. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	ndany PNPP		Type Code Sym	bol Stamp NR			
		enter Road, Perry,				Authorization No	•			
						Expiration Date				
4. Identificatio	n of System: Rea	ctor Recirculation :	Svstem Pu	mp "A"						
						4074 5-14				
5. (a) Applicat	e Construction Co	NAME/SECT	ION/DIVISIO	DN/CLASS	<u> </u>	19 <u>74</u> Eon	ion			
Winter	19 <u>75</u> /	Addenda Code	Case(s) <u>1</u>	<u>728, 1644-</u>	<u>ا</u>					
(b) Constru	iction Code used for	or repairs, modifica	ations, or r	eplacement		tion <u>W75</u> Addenda	N/A Code Case(s)			
(c) ASME (	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u>	<u>N/A</u>	<u>N/A</u>			
(d) Applical	ble Edition of Secti	on XI Utilized for E	Popaire M	odification		tion Addenda	Code Case(s)			
	<u>N/A</u> 19 <u>N/A</u>		•	Somoation, V		ements.				
	Responsibilities <u>F</u>	Cod	e Case(s)	ating Comp	anv					
	n of Components F									
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME			
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped			
Support	E-Systems	B33	None	1B33- G7067A	1978	Replacement	Yes			
	· · · · · · · · · · · · · · · · · · ·									
			<u> </u>		· · ·		+			
			<u> </u>	l	L	L				
7. Description	of Work: Replaced	I Snubber 1B33-G	<u>006-S372/</u>	<u>A, S/N 055 v</u>	<u>vith_rebu</u>	ilt_S/N 023				
8 Test Condu	ted: Hydrostatic			lominal Or						
Pressure <u>N</u>	-	-  Pneumat st Temperature <u>N</u>		iominal Op legrees F	•	ressure- 🔲 Oth Case(s) <u>N/A</u>	er- 🔲			
	<u> </u>		<u> </u>	icyices F	COUR	0030(3) <u>IN/A</u>				

.

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26 20 05
Date May 2 20 03 Signed FENOC-PNPP QE (name of repair organization) (autborized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by <u>Hartford Steam Boiler Ct.</u> of <u>Hartford, Conn.</u> have
inspected the repair, modification or replacement described in this report on <u>May 2</u> , 20 03 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 joss of any kind arising from or connected with this inspection. Date May 2, 20 200 SignedCommissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

03-119 2 - 6 7 Z - 105

# ( CORRECTED COPY )

FORM NE-1 MANUFACTURERS' DATATREPORT/FOR COMPONENT-SUPPORTS As Registred by the Provisions of the ASME Code Rules: Section EL Division 1

### w ESystems Inc. Montek-Division Salt Lake-City-UT

Michiger for - General Flectric Company San Lose: California

Added 1. Storconrectoritentealterror. Added 1. Storage Added 1. Storage Added 1. Storage Added 1. Storage Added

CERTIFICATE LOF 2 COMPLIANCE Microffly in a time of the second second second second control to the out of control to 2 microffly in a time of the second second second second control to the out of control to 2 microffly in a time of the second second second second second control to the out of control to 2 microffly in a time of the second s

Striker in the state of the sta

CERTIFICATION OF DESIGN E-Systems, Inc., Hontek Division, Salt Lake City, UT

Strang Report of Load Capacity Data Sharet on FMa to E-Systems: Inc ; Montek-Division: Salt-Lake-G \_\_\_UT\_\_\_\_\_\_ Onling Forcellications Caralled by (1) <u>M:D: Potter</u> PE State Reg No.\_\_\_\_\_\_25904

Strens Abailyin Report of Load Capacity Data Sharin Centilied by (1) Robert Lee Warren (11) e Sian Utah Rep. No. 3942

([) List name only, signature not required.

\*Supplemential phone in Jorm of Ness, skatches or gravings may be used provided (1) size to 8% in ; (2) intermation in mems 1, 2, 4c, 4d on this data report is included on each phone, and (2) each short is numbered and number at shorts is received it top at short or form

# <form>

2730020421223

Drillen in Linik Carillicate heither, the Impector/nor hit employer makes an excount idea rused within Manulach/or Joels Report Furthermore and the for a second any rule property damage or a lost of any kind or king the period of the second any rule property damage or a lost of any kind or king the period of the second any rule property damage or a lost of any kind or king the second of the second any rule property damage or a lost of any kind or king the second of the second any rule property damage or a lost of any kind or king the second of the second any rule property damage or a lost of any kind or king the second of the second any rule property damage or a lost of any kind or king the second of the second any rule property damage or a lost of any kind or king the second of the second any rule property damage or a lost of any kind or king the second of the second any rule property damage or a lost of any kind or king the second of the second any rule property damage or a lost of any kind or king the second of the second any rule property damage of the second of the second any rule property damage of the second any rule property damage of the second of the

energia de la construcción de la

tice not full amployer shall be label an any mansected with this importion. 1833-120

NIS-2		R'S REPOR					ENTS
PNPP No. 9308 R		Julieo by the From					NQI-1741
1. Owner:	FIRST	ENERGY CORP.				Date 05/04/03	
	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2
2. Plant:		ear Power Plant (P		<b>.</b>		Unit <u>1</u>	
	10 Center F	Road, Perry, Ohio 4	4081			03-003803-000 (Repair Org. P.O. N	
2 Work Perfo	rmed By: <u>FIRSTEI</u>		coting Corr			Type Code Symb	ol Stamp N
J. WUINFCHU	-	enter Road, Perry,				Authorization No.	
		///////////////////////////////////////	01110 1 102	-		Expiration Date §	
4 Identification	n of System: <u>1B33</u>	Reactor Recircul	lation Svs	tem Pump '	'A"	·	
						4074 Editi	
5. (a) Applicab	ble Construction Co	Dde: <u>ASME Sec III,</u> NAME/SECT	<u>Subsection</u> ION/DIVISIO	<u>DN, NF-1</u> N/CLASS	,	,19 <u>74</u> Editio	on
Winter	19 <u>75</u> /	Addenda Code	Case(s) <u>1</u>	<u>644-8, 1682</u>	<u>?-1, 1706,</u>	N242-1	<u> </u>
	··· • • • • • •						
(b) Constru	iction Code used fo	or repairs, modifica	ations, or re	eplacement		ition W75 Addenda	N/A Code Case(s
(c) ASME (	Code Section XI ap	plicable for Inservi	ice Inspect	tion:	<u>1989</u>	N/A Addanda	N/A
(d) Applicat	ble Edition of Secti	on XI Utilized for R	Penairs, Mo	dification. (		ition Addenda	Code Case(s
	<u>N/A</u> 19 <u>N/A</u>		•	///////////////////////////////////////	/////	errene.	
	Responsibilities F	Code	e Case(s)	atino Comp	anv		
	n of Components F						
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
Support	E-Systems	B33	None	1B33- G7067A	1978	Replacement	Yes
			- <u></u>				<u>  </u>
Z Deceription		4000 0000 007		L.	22) ropis		
	of Work: <u>Removed</u> n Rod Assembly So					aced the Piston Ro 023	d assembly
<u> </u>				<u></u>		······	
8. Test Conduc	cted: Hydrostatic	- 🗋 Pneumat	ic- 🔲 🛛 N	Nominal Op	erating P	ressure- 🔲 Othe	er- 🗌
Pressure <u>N/</u>	/A psi Te	st Temperature <u>N/</u>	<u>/A</u> d	legrees F	Code	Case(s) <u>N/A</u>	

----

q	. Remarks:
-	
-	
_	
	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING
Ē	FFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	lote: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of t
	report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recor the front of this form.
	CERTIFICATE OF COMPLIANCE
	I, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report a correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS
	Code and to the National Board Inspection Code "NR" rules.
	National Board Certificate of Authorization No to use the "NR stamp expires 9-26, 20 05
	Date May 5 , 20 03 Signed FENOC-PNPP (name of repair organization)
	(name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, Thomas G. Laps,holding a valid commission issued by The National Board of Boile
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	and employed by Hartford Steam Boiler Ct of Hartford, Conn h
	inspected the repair, modification or replacement described in this report on May 5, 20 03 and state that the
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance w
	Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
	concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable
	any manner for any personal injury, property damage oploss of any kind arising from or connected with this inspe-
	I and the set of any percent and state of any three of an
	Date May 5/9, 20 03 Signed Thomas 2 Japa Commissions NB 9330 "N" "I" "A" Ohio Comm.

.

-----

-

F	ORM NF-2 NP			ARTIAL DATA REPO			<u>mlst 90056</u>	ų
•	Certified & Manufactured by	, E-Syst	ems, Inc., Mo	ntek Division, So Name and accress of NP	alt Lake City, r Certificate Molders	Utah 8411		
2.	Manufactured fo	rGer	neral Electric (	Company, San Jos		95125		
3.	Location of Inst	allationP	erry Nuclear Pa	ower Plant, Nort		44081		
4.	(a) Part	(b) Canadian	(c) Part	(a)	(e)	(f) National	(g)	
	Serial No.	Registration No.	Drawing No.	Description of Part	Class	Board No.	Year Built	
/	(1)6646	N/A	152107-100	Piston Rod End	1	None	1985	
,	(2)6666	H	11	- N	et	01	н	
	· (3)8211	H	152110-100	•	. 11	88	et	
	118213					BL	41	
	15)7325	11	152112-101	Adi. Rod End	11	11	28	
	- (6)7326	82	n	11	48	R	82	
	- 1718206-B5	11	152113-101	et	n	11	82	
	(18)8208-85		JE	25	it sur	11	11	
	(19)6437	It	152115-101	et	et .	<b>f</b> l	11	
	11016439	11	12	tt ·	10	jî .	11	

CERTIFICATE	OF COM	PLIANCE
-------------	--------	---------

We certify that the statements made in this report are correct and that these component support parts conform to th	ie rules or construc-
tion of the ASME Code for Nuclear Power Plant Components, Section 111, Division 1, Edition 1974 . Addenda Y	<u>Vinter 1976</u>
Code Case no1644-4	(Date)

Date_June 20, 1985	- Carpel
(NPT Certificate Holder)	J. Lynch
Dur ASME Certificate of Authorization No. 2563 to use the NPT	Symbol expires June 21, 1985
(NPT)	(Date)

### CERTIFICATE OF SHOP INSPECTION

the undersigned, holding a valid commission of Utah	sion issued by the National Board of Bo moloyed byHSB1&1CO.	siler and Pressure Vessel Inspectors and the State orofHartford, Conn.
	have inspected the parts for the co	amogent supports described in this Data Report on
June 20 . 19 85 : and state t	hat to the best of my knowledge and beli	ief the NPT Certificate Holder has constructed these
imponent support parts in accordance with	h the ASME Code for Nuclear Power Plan	nt Components.

signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the comnent supports described in this Data Report. Furthermore neither the inspector nor his employer shall be liable manner for any personal injuly or property damage or a loss of any kind arising from or connected with this impection.

6/20/85	
a some	- <i>lit. 91</i>
	Commissions

1011-035

NIS-2		R'S REPOR					ENTS
PNPP No. 9308 R							NQI-1741
1. Owner:	FIRST	TENERGY CORP.				Date <u>6/26/03</u>	
		Road, Perry, Ohio	44081	· •		Sheet 1 of	2527-7-0 81
2. Plant:	Perry Nucl	ear Power Plant (F	NPP)	_ <u></u>		Unit <u>1</u>	
	10 Center F	Road, Perry, Ohio 4	4081		1	<u>W.O. 01-10772</u>	<del></del>
						(Repair Org. P.O. N	Ю., etc.)
3. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Con	npany PNPP		Type Code Symb	ool Stamp <u>I</u>
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>81</u>		Authorization No.	. <u> </u>
						Expiration Date	9/26/2005
4. Identification	n of System: <u>1C1</u>	1 Control Rod Drive	e System			•	
		ode: ASME Section				,1974 Editi	~~
o. (a) Applicat	ne Consudction Co	NAME/SECT	ION/DIVISIO	N/CLASS		19 <u>74</u> E010	011
Winter	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	I-272, N-71	<u>-6, N-71-9</u>	), 1728, N-3, N-22	5
<u>N-413</u>				······			
(b) Constru	iction Code used fo	or repairs, modifica	ations, or r	eplacement		tion <u>Winter 75</u>	N/A Code Case
(c) ASME (	Code Section XI ar	plicable for Inservi	ice Inspec	tion:	1989	N/A	N/A
					Edi	tion Addenda	Code Case
-		on XI Utilized for R	•	odification,	or Replac	ements:	
			e Case(s)				
		IRSTENERGY Nuc					
6. Identification	1 of Components F	Repaired, Modified,	, or Replac	cement Cor	nponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
Component		Serial No.	No.	10.		or Modification	Stamped
Hanger	Johnson Controls	1C11-0033-F	003	MK- 1C11-	1985	Replacement	Yes
			<u> </u>	F163A			
		· · · · · · · · · · · · · · · · · · ·			1		
			<u> </u>				
			├				
			<u> </u>	L			
		<u>MK-1C11-F163A w</u>	as partiall/	y removed	and re-we	elded using E-7018	3/32"
weld rod HT							
8. Test Conduc	•			•	-		er- 🗋
Pressure <u>N/</u>	A psi Te	st Temperature <u>N</u>	<u>/A</u> (	legrees 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: None
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>David E. Lindquist</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No to use the "NR stamp expires 26 Sept, 20 05
Date June 26_ 20 03_ Signed FENOC-PNPP Carter findered QE (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION  I, <u>THOMAS G. LAPS</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u>
and employed by <u>Hartford Steam Boiler Ct.</u> of <u>Hartford, Conn.</u> have
inspected the repair, modification or replacement described in this report on May 5 20 03 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 Juy7, 20 03_ Signed Thomas Lange Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

:

					. 1	C41-0.	30
NIS-2 PNPP No. 9308 F	/NR-1 OWNE As rea	R'S REPOR quired by the Provi					ENTS
						Dete 0.0.02	
1. Owner: _		ENERGY CORP.	A 4094			Date <u>9-9-02</u> Sheet <u>1</u> of	
	<u>io Center r</u>	Road, Perry, Ohio	44001			Sheet <u>1</u> 0	<u>4</u>
2. Plant:	Perry Nucl	ear Power Plant (F	NPP)			Unit <u>1</u>	
		Road, Perry, Ohio 4				00-9054 R/0	
						(Repair Org. P.O. N	lo., etc.)
3. Work Perfo	rmed By: _FIRSTE	NERGY Nuclear Ope	erating Con	pany PNPP		Type Code Sym	bol Stamp <u>NR</u>
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No	33
						Expiration Date	9/26/2005
4. Identificatio	n of System: 1C4	1 Standby Liquid C	ontrol				
	ble Construction Co					,1971 Editi	on
		NAME/SECT		N/CLASS			
<u>Winter</u>	19 <u>72</u> /	Addenda Code	Case(s) <u>N</u>	/A			
		······					
(b) Constru	uction Code used for	or repairs, modifica	ations, or r	eplacement		tion Addenda	<u>N/A</u> Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	<u>1989</u>	<u>N/A</u>	N/A
(d) Applica	ble Edition of Secti	on XI I Itilized for R	enairs M	odification		tion Addenda ements:	Code Case(s)
	<u>N/A</u> 19 <u>N/A</u>		-		, riopido		
	Responsibilities F	Code	e Case(s)	rating Com	oany PNS	PP	
	n of Components F				-	<u> </u>	
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
Valve	Conax Corp.	N/A	112	N/A	1975	Replacement	Yes
		·	{				<u> </u>
			<b> </b>				<b></b>
			<b> </b>			· •	<b></b>
	l					l	
	of Work: <u>Replaced</u>				_	ig trigger subasser	mbly
	nd inlet fitting S/N 5			_			
	cted: Hydrostatic		-	•	-	—	er- 🔲
Pressure <u>N</u>	<u>ra</u> psi Tes	st Temperature <u>N</u>	<u>/A</u> (	legrees F	Code	Case(s) <u>N/A</u>	

. .

.

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>Michael J Tepsick</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 26 Sept. 20 05
Date <u>9 S/EAT</u> , 20 <u>2</u> Signed <u>FENOC-PNPP</u> <u>3001 Jun</u> SR QUALITY TRH (name of repair organization) (authorized representative) (little)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, <u>Thomas G Laps</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u>
and employed by Factory Mutual ins. Co of Johnston, Ri have
Inspected the repair, modification or replacement described in this report on SEPT.9, 2002 and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection. Date <u>99</u> , 2002 Signed <u>Thomay</u> Commissions <u>NB 9330 "N" "I" "A" Ohio Comm.</u> (inspected) (inspected) (National Board (include endorsements), and jurisdiction, and no.)

REPORT NO. P0059-009

1041-030 SHART 2 OF 4

7-33000

ST LUID NIA EALANDAULULUS DAVIAVUS KURDUULUENEDELAISULUS MUSALAVIS. AS Reconcility the Provisions of the ASUL Code Bales.

3. Oxner Unknown

C. Location of Plant Percey T

S. Pump or Value Identification Explosive Actualed value for Standby Liguid Cantrol System,

-(b) National Board No. 112

6. Design Conditions <u>1200</u> psi <u>150</u> of (Pressure) (Temperature)

The material, design, construction, and workmanship complies with ASME Code Section III-Class Forman 1971 \_\_\_\_\_ Winter 72 \_\_\_\_\_ Case No. \_\_\_ Not Applicable

Maleriai Spect No. (a) Castings SPACE CLASSES P.L. State of the state of Carrie La St in standart fillet og (b) Forgings 17.0 and the second second second second ------2.54 404 andianic atomak briverd provided (1) birs 14 814 rs, pro-17 rach sover is numbered and number al itset sheets in som afdister s detetresbetisetnetutet on 1. and 1.

BAST AUNILABLE COPY

	A	AL 10110 1011		_	
A					
			1.0.0	1	1.1.1
	1. 1.2.3			1 1 1 1 1 1 1 1	
3. 10 Percent		10 1.0 1.2			
See. Sugar					

	and the second	and a second as a second s	
	Mark No	Contractor North	
(c)	Bulting		
		Cara-an Store	
			1
10	Other Parts Valve Parts	<u>5A 479</u>	Conay (
	Trigger Body	SA: 477	Cunax (
	Ram	SA 564	Concx.
	Inlet Fittings	64.170	
	inter cittings	5A 479	

9. Ily diestatic test

### CERTIFICATION OF DESIGN

Design information on file at <u>General Electric Nuclear Energy Div</u>;, San Jose, Calif. Stress analysis report on file at Conax Corporation, 2300 Walden Avenue, Buffalo, N.Y. <u>14225</u> Design specifications cer fied by J. Kelso (11 Prof. Eng. State Califs: Reg. No. 13738 Stress analysis report corrified by Francis J. Domino (1) Prof. Eng. State N.Y. Wee No. 36832 (1) Signature not required. List name only.

e certify that the statements made in this report are correct.

• 2.17 10 217 Signed Conax Corporation Certificate of Authorization No. N-829 expires June 17, 1977

**在这些主要的,我们的主义是我的,这些主要的,你们的是我们** 

Rich ard L. Duroure Quality Assurance Manager

· · · 

crp. 

oro: 

orp.

\_0.p •

### CERTIFICATE OF SHOP INSPECTION

Jethe undersigned, holding a valual commission issued by the National Diard of Heiler and Pressure Vessel heighters and/or the State of Province of <u>National Board</u> and employed by Lumbermons Mutual Cosualty C

Date 6/25/25 19

Printed (n.U.S.A. 15/771

211 167728

1 hts form (1937) is obtainable from the Passes (1997) is so showing it

# 1C41-030 SHEET 3 OF 4

FORMINZ CERTIFICATE HOLDERS (DATA REPORT FOR IDENTICAL) NUCLEAR BARTS AND APPURTENANCES + ANN STUDIED STREET STUDIES OF DESCRIPTION OF DESCRIPTION AND STUDIES AND APPORT OF DESCRIPTION OF DESCRIPTON F DESCRIPTON OF DESCRIPTONO

Manufactured and centred by WWW.Ca 2/15/2018 2. Manufactured for 5.85 n Jose7 CA 9512 OF N 3. Location of Installi 17 2000 AN/A wing hall the states of the second MJ GROW ZICIM 5. ASME Coda: Section III Division : NIA

Prasure i este 12200 pri / 6/10 minness 2 Nomsthe Links (m. 1557 Amane Min Costo) pri Los stills i Secretare Dis 10 (h. Alin) z er America anpri overali (h. 4 in.) - 250 hammer.

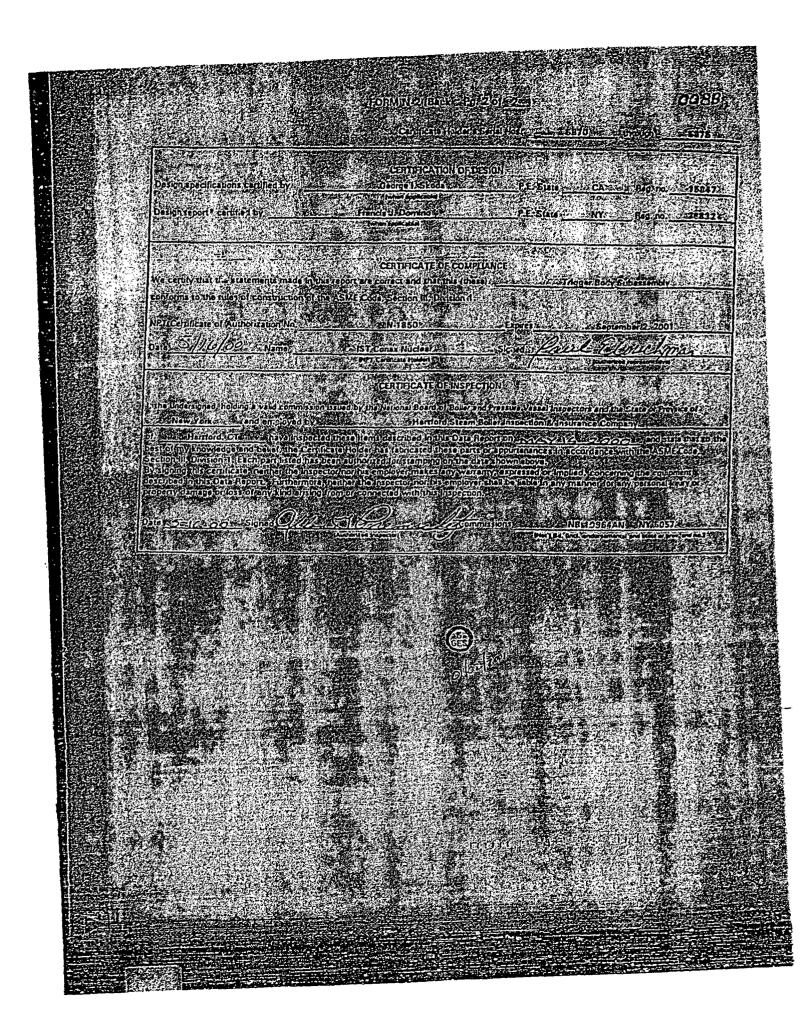
Vieniapplicable scarificere Holders, DataReports are attached (or, each light folithis reports, second starts)

	1.5	Nation		利温			National S
	Serial Number 2	A Board N			ntiole Appunc		Bourd No.
	Senal rounder.	In Numerical	Order		-Sarul Numb		In Numerical Cri
33.67							1997 - The
ens.		5870	Sec. A.	1261			
2(2)	A	5874.		目的一层	Service of States		
(3)	· · · · · · · · · · · · · · · · · · ·	日本 日本 1 日	<b>22</b> 日本)有例呈	128024	a		
	6/// 1587J	新学 364美大大学 5873	SCR. JAN	(29)			
2(5) 👾	26874 A	a (1.6874)		(50)	2.5.26.6.05	<b>1</b>	
2 <b>(6)</b>	6875	FOR 16875	and the state of the		A 4: 813		
回刀走			<b>1</b>	(32)	ales, tense	26. 25.2	
a(8)				(66)	201.5		
(19) <b>(</b> 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 (A) (A)	<b>送</b> 着门。(ma) 带	
1101	a stand and a stand of the			3 (05)			
<b>111</b>		Call Call Street in the		1361	3.5. 0		
				9 (07) <u>-</u>	01.557.865	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the second se
C[1,3]) <u>* 9</u> .							
			100 x 200 x 20				Telling and the second second
					2		
				A SALE A SECTION			Sector 1 and 1 and 1
1101							Carlos Carlos Carlos
1201	1.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Contraction of the	14512-578	1. J. C.	1999 (1999) 1999 (1999)	ANTICICAL ANTICAS
		The LEAST AND DURING A	State of Ka	1461	517 No - 18	607 A 1762 3.42	NASC 49 49722
	10.11 × 11 × 0.110	2002		1 LL / 19	No Alexand		1
(23)	and souther with the second second		1		The second		Sola A
2412-2			1000		7. 9. Sty 1. 4. 2		COLUNE - SAMES
256.7		a and the register at the second		11501-4-6	111111	C. + (2.3 1.7	International States
and the second	PARAMETER AND	Concentration and	and the second second	Carl Survey	1. T. A.		544 C 40 T 40 4 74

A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF

6. Issipressure <u>Seeffemphi</u> II forman 1. State of the second se

166



1 H #

表得

2000

free build

N/A

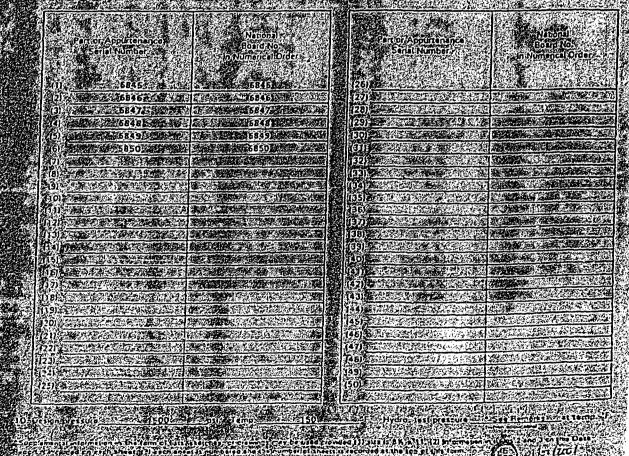
# ICY1-030 SHERT 4 OF Y

DRMIN-2 CENTRICATE HOLDERS (DATA REPORT FOR IDENTICAL NUCLEAR WARTS IN NO APPORTEMANCES) (As Introduced by the Provision for the ASME Code) Section (II) (Soft of Eccord Obio Oby (Production))

permit and accorned of 1977 (Constraint Indian) nue Sanijase CA 95125 A DISC STORAGE SE Nuclear Ener 120 20 Ji Location of installation TYPE N38017-Kavit SA4793045515 76K51515 1

200 P ICRM 577 5. ASME Code: Section III Olvision 1: Garden 
 Garden
 Garden
 Garden
 Garden 
 Garden 
 Garden 
 Gard

STATE INCLUSION C. MANY S. C. C. MARK Pressure ITest ar 2800 pillior 10 minutes De Nom) (nj civioss sin ) <u>7.040 de Mint design (hij civioss (in 1) 031 00 D</u> /ff & hil<u>) 815:</u> Length overall (ff & in.) 2.245: O When apple Sole scerificate Holders, Data Neports are anached (*orienthillam* of this report.



Design specifications certified by 25 Design report : Cartified by

conforms to the rules of construc NPT Certificate of Authorizatio Date<u>5/*915/206*</u>Names 

7.100

LIST Conaz Nuclearle

i renb

WY ork differentierd Cert Inspecticulations Diff

t olimy snowledge and be INA IND CONTRACTORIZED DISTRICT ໄດ້ເວັ້ນເຮົາເວົ້າ 1 ອີ້ນີ້ອີ້ນອກເທັດການອີ້ນັ້ນນີ້ມູ້ ເວົ້າເຈັ້າການໃຫ້ມີເອົາອີ້ນອກເທັດການອີ້ນອກເອົາອີ້ນອີ້ນ ດີເຈົ້າເປັນອີ້ນອີ້ນອີ້ນອີ້ນອກເອົາການອີ້ນອກເອ ເອັ້າກາງຕ້ອງການອີ້ນອີ້ນອີ້ນອກເອົາອີ້ນອີ້ນອີ້ນອີ້ນອີ້ນອີ້ນອີ້ນອີ້ນອ

<u>zara –</u> Storo (C)

FORMIN-20Backs Par-2 of 2n ] 0068 1845

P.E. States Certain a stand ..... P.E. State ... CENTRICATE OF COMPLANCE

•**2)** • 10 0 • • • • • • CERTIFICATE OF INSPECTION 36832

thu)Date/Heporton He and state 50000 antice period of the contract with the ASMs .co.,co.co.ler/im diable

. •

. . .

				· .	1041 -	-031
NIS-2/NR-1 OWNE						ENTS
As rec PNPP No. 9308 Rev. 9/11/00	quired by the Provi	sions of th	e ASME CO	ode Secu	on XI	NQI-1741
1. Owner:	ENERGY CORP.				Date <u>9-9-02</u>	
	Road, Perry, Ohio	44081			Sheet 1 of	4
	ear Power Plant (P				Unit <u>1</u>	
10 Center R	Road, Perry, Ohio 4	4081			<u>98-328 R/0</u> (Repair Org. P.O. N	lo., etc.)
3. Work Performed By: _FIRSTER	NERGY Nuclear Ope	erating Com	pany PNPP		Type Code Symt	ool Stamp <u>NR</u>
<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No	
					Expiration Date	9/26/2005
4. Identification of System: <u>1C41</u>	Standby Liquid C	ontrol		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
5. (a) Applicable Construction Co	de: <u>ASME Section</u> NAME/SECTI				19 <u>71</u> Editi	on
Winter 19 72		Case(s) N		•••••		
(b) Construction Code used for	or repairs, modifice	ations, or re	eplacement		Winter 72 Addenda	N/A Code Case(s)
(c) ASME Code Section XI ap	inlicable for Inservi	ice Inspect	ion:	1989	tion Addenda N/A	N/A
		·		Edi	tion Addenda	Code Case(s)
(d) Applicable Edition of Section 19 89 , N/A 19 N/A		•	dification,	or Replac	ements:	
	Code	e Case(s)			<b></b>	
<ul><li>(e) Design Responsibilities <u>FI</u></li><li>6. Identification of Components R</li></ul>		-			<u>′′′</u>	
Name of Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
Component Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
Valve Conax Corp.	N/A	113	N/A	1975	Replacement	Yes
			· · · ·			-
						11
					· · · · · · · · · · · · · · · · · · ·	1
7 Description of Work: Poplage			- MH S/M 53			
7. Description of Work: <u>Replaced</u> <u>S/N 5541 and inlet fitting S/N 5</u>					g ingger suuasser	
8. Test Conducted: Hydrostatic				• •	essure- 🔲 Oth	er- 🗌
Pressure <u>N/A</u> psi Tes	st Temperature <u>N/</u>		legrees F	-	Case(s) <u>N/A</u>	

.

NPP No. 9308 Rev. 9/11/00	VNER'S REPORT FOR	REPAIRS OR REPLACE	MENTS (Back)
). Remarks:			
······			
		<u></u>	
NO NAMEPLATE/STAN	IPING PERFORMED DUE TO	THE INTERFACE CONTROLS	OF RA-2370
BEING IN EFFECT AND	JURISDICTIONAL AUTHORIT	Y CONCURRENCE HAVING B	EEN RECEIVED.
report is included the front of this for	on each sheet, and (3) each she	n. x 11 in., (2) information in iten eet is numbered and the number	of sheets is recorded o
	CERTIFICATE C	OF COMPLIANCE	
correct and the repair, m	, certify that to the best of my kn odification or replacement of the it I Board Inspection Code "NR" rule:	owledge and belief the statements ems described above conforms to \$ s.	made in this report are Section XI of the ASME
	•		
National Board Certificat	te of Authorization No33	to use the "NR stamp expires	2 <u>6 Sept.</u> 20 <u>05</u>
National Board Certificat	Signed FENOC-PNPP	malizart	SR AWALITY TECH
National Board Certificat	Signed FENOC-PNPP	to use the "NR stamp expires <u>m</u> / <u>J</u> / <u>J</u> / (authorized representative)	SR DUALITY TACH
National Board Certificat	Signed FENOC-PNPP (name of repair organization	n) (authorized representative)	SR AWALITY TECH
National Board Certificat Date <u>9 SEAT.</u> 20 <u>0</u> 2	Signed <u>FENOC-PNPP</u> (name of repair organization CERTIFICATE OF INSPECTI	n) (authorized representative)	SR AUNUTY TACH (title)
National Board Certificat Date <u>9 SEAT</u> , 2002 I, <u>Thomas G Laps</u>	Signed <u>FENOC-PNPP</u> (name of repair organization CERTIFICATE OF INSPECTI ,holding a vi	n) <u>ml Jan</u> (authorized representative) ON/INSERVICE INSPECTION alid commission issued by The Nati	SR dontory Trickf (title)
National Board Certificat Date <u>9 SEAT.</u> 2002 I, <u>Thomas G Laps</u> Pressure Vessel Inspect	SignedFENOC-PNPP (name of repair organization CERTIFICATE OF INSPECTI ,holding a values tors and certificate of competency i	m) ml Jan (authorized representative) ON/INSERVICE INSPECTION alid commission issued by The Nati ssued by the jurisdiction of	SR don Ury Trich (title)
National Board Certificat Date <u>9 SEAT</u> , 2002 I, <u>Thomas G Laps</u> Pressure Vessel Inspect and employed by <u>Factor</u>	Signed <u>FENOC-PNPP</u> (name of repair organization CERTIFICATE OF INSPECT ,holding a values fors and certificate of competency in ry Mutual Ins. Co.	m) ml Zml (authorized representative) ON/INSERVICE INSPECTION alid commission issued by The Nati ssued by the jurisdiction of of Johnston, RI	SR awnury Tisch (title)
National Board Certificat Date <u>9 SEAT.</u> 2002 I, <u>Thomas G Laps</u> Pressure Vessel Inspect and employed by <u>Factor</u> Inspected the repair, mo	Signed <u>FENOC-PNPP</u> (name of repair organization CERTIFICATE OF INSPECTI 	m) mJ Jan (authorized representative) ON/INSERVICE INSPECTION alid commission issued by The Nati ssued by the jurisdiction of of Johnston, RI t in this report on SEPT 9, 2003	SR awnury Tisch (title)
National Board Certificat Date <u>9 SEAT</u> , 2002 I, <u>Thomas G Laps</u> Pressure Vessel Inspect and employed by <u>Factor</u> inspected the repair, mo the best of my knowledg	Signed <u>FENOC-PNPP</u> (name of repair organization CERTIFICATE OF INSPECT ,holding a vitors and certificate of competency in ny Mutual Ins. Co. dification or replacement described re and belief, this repair, modification	m) ml Imm (authorized representative) ON/INSERVICE INSPECTION alid commission issued by The Nati ssued by the jurisdiction of of Johnston, RI 1 in this report on SEPT 9, 2003 on or replacement has been completed	SR awnury Tisch (title)
National Board Certificat Date <u>9 SEAT</u> , 20 <u>0</u> <u>2</u> I, <u>Thomas G Laps</u> Pressure Vessel Inspect and employed by <u>Factor</u> Inspected the repair, mo the best of my knowledg Section XI of the ASME 0	Signed <u>FENOC-PNPP</u> (name of repair organization CERTIFICATE OF INSPECTI 	<i>mJ J</i> (authorized representative) ON/INSERVICE INSPECTION alid commission issued by The Nati ssued by the jurisdiction of of Johnston, RI in this report on <u>SEPT 9</u> , 2003 on or replacement has been completed action Code "NR" rules.	SR awnury Tisch (title)
National Board Certificat Date <u>9 SEAT</u> , 2002 I, <u>Thomas G Laps</u> Pressure Vessel Inspect and employed by <u>Factor</u> inspected the repair, mo the best of my knowledg Section XI of the ASME By signing this certificate	Signed <u>FENOC-PNPP</u> (name of repair organization CERTIFICATE OF INSPECT ,holding a value tors and certificate of competency is ny Mutual Ins. Co. dification or replacement described e and belief, this repair, modification Code and the National Board Inspect a, neither the undersigned nor my e	m) ml Imm (authorized representative) ON/INSERVICE INSPECTION alid commission issued by The Nati ssued by the jurisdiction of of Johnston, RI 1 in this report on SEPT 9, 2003 on or replacement has been completed	SR awtory Tisch (title)
National Board Certificat Date <u>9 SEAT</u> , 20 <u>0</u> <u>2</u> I, <u>Thomas G Laps</u> Pressure Vessel Inspect and employed by <u>Factor</u> inspected the repair, mo the best of my knowledg Section XI of the ASME of By signing this certificate concerning the work des	Signed <u>FENOC-PNPP</u> (name of repair organization CERTIFICATE OF INSPECTI 	m) ml line (authorized representative) ON/INSERVICE INSPECTION alid commission issued by The Nati ssued by the jurisdiction of of Johnston, RI d in this report on SEPT 9, 2003 on or replacement has been complete ection Code "NR" rules.	SR awnery Tricht (title)

•

1041-031 SHRATZOF4

# TORATINES TO ANTITAL REPORT OF TORAL OR NOT LONG THE MERINES OR VALUES.

As Reputed By the Pervisions of the ASIL EnderHoles.

## cia Manufactures by Conox Corporation, Buildio, New York 14225

2-Munufscitured for General Electric Co., San Jose, Calif. \_\_\_\_\_ Order No. 205-AE-282

## 3. Uniter Unknown

A. Location of Plant \_\_\_\_\_ERRY\_E

Pump of Valve-identification Explosive Actualed Valve for Standby Liquid Control System
(7" O.D., 1-1/2" jube size)

# (a) Drawing No. N20000 Prepared by Conex Corporation

(b) National Board Nor 113

Design Conditions 1400 psi 150 o

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class \_\_\_\_\_\_I Edition \_\_\_\_1971\_\_\_\_\_\_, Addenda Date Winter 72 \_\_\_\_\_\_, Case No. \_\_\_\_Not Applicable \_\_\_\_\_

Remarks	Manufacturer.	Material Spec. No	Murk No.
			(a) Castings
		1000月1日1月1日1日1日1日	
		A CONTRACTOR OF A CONTRACT  CONTRACT OF A CONTRACT OF A CONTRACT. CONTRACT OF A CONTRACT OF A CONTRACT. CONTRACT OF A CONTRACT. CONTRACT OF A CONTRACT. CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT. CONTRACT OF A CONTRACT OF A CONTRACT	
			(b) Forcings
	1		
	and the second second second second		
Restaura Chippersolantes		No. of the second s	
	States interesting of a same Court		

BEST AURICABLIE COPY

			H
· · · · · · · · · · · · · · · · · · ·			
(c) heling			
			<b>TANK</b>
			ALC: N
			N IN
(d) Other Parts			
Volve Parts	SA 479	Conox Corporation	
Trigger Body	SA 47.9	Conax Corp.	
Ram	SA 564	Conax Core.	
			Ē
Inlet Fittings	SA 479	Conox Corp.	

drostatic test.

T.

### CERTIFICATION OF DESIGN

Design information on file at <u>General Electric Nuclear Energy Div</u>, San Jose, Calif. Stress analysis report on file at <u>Conax Corporation</u>, 2300 Walden Avenue, Buffalo, N<u>Y, 14225</u> Design specifications constitud by J. Kelso Stress analysis report certified by <u>Francis J. Domino</u> (1) Prof. Eng. State <u>NeY</u>, 1168, No. 36832 (1) Signature not required. List name only.

We certify that the statements made in this report are correct

ZIE 1921 Signed Conax Corporation By (Manufacturer) N-829 \_\_\_\_\_\_ June 17, 1977 Certificate of Authorization No.

10.00

----

Richard L. Duroure Quality Assurance Manager

## CERTIFICATE OF SHOP INSPECTION

It the undersigned, holding a valid commission issued by the National Poard of Poiler and Pressure Vessel inspectors and/or the State of Province of <u>National Board</u> and employed by <u>Lumbermans-Mutual Casualty Co</u> or <u>Chicago</u>, <u>Illinois</u> have inspected the equipment described in this Data Report on <u>State of this equipment in a condance sign frie applicable.</u> Subscription State of any knowledge and belief, the Manufacturer base constructed this equipment in a condance sign frie applicable. Subscription State of any knowledge set of the inspector of the equipment described in this Point base constructed this equipment in a condance sign frie applicable. Subscriptions of ASNE Code, Section III. By signing this exciling a mether the Inspector not his employer makes any attainty, espressed or implied, concerne in the equipment described in this Data Report. Furthermore, active the Inspector has his employer shall be itable in any manner for any personal injury or property damage or a tuss of any kind attains from or connected with this instruction.

(1.37) 15

G/20/75 10

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

1/1016 ector)

PAUC: 2018

REPORT NO. P0059-009

Pg. 1 of 2

1041-031 SHART 3 OF 4

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES•
As Required by the Provisions of the ASME Code, Section III

Not to Exceed One Day's Production

1. Manufactured and certified by IST Conax Nuclear, 2300 Walden Avenue, Cheektowaga, NY 14225 as at her fand 2. Manufactured for GE Nuclear Energy, 175 Curtner Avenue, San Jose, CA 95125 ome and address of Purchas 3. Location of Installation Unknown ineme and address 4. Type: N20000, Rev. G 75 KSI SA479 30455T N/A 1998 Idrawing no.3 Inter'l spec, ne.) CRM 5. ASME Code, Section III, Division 1: \$77 77 N/A Cade Cats no.1 6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision Date

7. Remarks: \_\_\_\_\_Trigger Body Subassembly for explosive actuated valve replacement kit for standby Equid control system.

Para. NB-2121 (b) is applicable to ram. Press Fit/Seel on .328 & .4375 diameters. Overall subassembly length is 2.5". Pressure Test at 2800 psi for 10 minutes.

8. Nom. thickness (in.) See Remarks Min. design thickness (in.) See Remarks Dis. 10 (ft & in.) See Remarks Langth overall (ft & in.) See Remarks

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

and the second second second second second second

Pi	rt or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board No. In Numerical Orde
m	5540	\$540	(26)		
(2)	6541	5541	(27)	and a second second	
(3) 📜	5542	8542	128)		
(4)	6543	\$543	(29)		
(5)	5544	6544	(30)		
16)	6545	6545	(31)		
(7)	\$546	5546	(32)	é	
(8)	5547	5547	(33)		
(9)	5548	5548	(34)	,	
1103 📃	6549	5549	(35)		
nn	\$550	\$550	(36)		
112) 📃	5551	\$551	(37)		
(13)			(38)		
14}			(39)		
15)			14-01	•	
16)			(41)		
17) 📃			(42)		
18)			(43)		
19}			(44)		
20) 📃			(45)		
21)			(46)		
22) 🗍			(47)		
23)			(48)		
24)			(49)		1 DR
25)	1		(50)		

10. Design pressure\_\_\_\_\_\_1500\_\_\_\_\_psi, Temp.\_\_\_\_\_150\_\_\_\_\_\*F. Hydro, test pressure \_\_\_\_\_\_See Remarks \_\_\_\_\_at temp. \*F.

\*Supplemental information in the form of Ests, sketches, or drawings may be used provided (11 size is 81% ± 11, (2) information in items 2 and 3 on this Data Raport is included on each sheet, 13) each sheet is numbered and the number of sheets is recorded at the top of this form,

1.

Atter tor 2 9.6.51

25×10

-

. .

A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR . • . • FORM N-2 (Back ~ Pg. 2 of \_2\_) Cartificate Holder's Serial Nos. 5540 5551 through CERTIFICATION OF DESIGN George L. Skode Design specifications certified by P.E. State 15847 CÅ Reg. no. Francis J. Domina Design report\* certified by P.E. State NY Reg. no. 36832 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this (these) kilet Fittings conforms to the rules of construction of the ASME Code, Section IR, Division 1. . . NPT Certificate of Authorization No. N-1850 Expire September 2, 1998 Date 8/4 Name IST Consx Nuclear Signed N INFT CA icash H CERTIFICATE OF INSPECTION ), the undersigned, holding a velid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by Hartford Steam Boller Inspection & Insurance Company of Hartford, CT have inspected these items described in this Data Report on <u>ALCA 1998</u>, and state that best of my knowledge and ballst, the Cartificate 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. , and state that to the 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. L\_ Commissions NB 10984AM NY 5057 Data 8-4-98 Signed 11. a and state or prov. and re.

> (RI DB

فلخت بخضف والمكامري

25×10

the state while the street with a

6

1041-031 s	HERT 40	F 4
------------	---------	-----

	N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES* Required by the Provisions of the ASME Code, Section III Not to Exceed One Day's Production						
1. Manufactured and certified by	IST Cone	x Nuclear, Inc. 402 Sonwil Dri trame and address of NPT Co		14225			
2. Manufactured for	GE Nuclear I	Energy, 175 Curtner Avenue, S trame and address of Purchaser					
3. Location of Installation		Unknown	<u></u>				
4. Type: N38017, Rev. F Idiawing no.3	SA479 30455T	75 KSI (tanada atrangifu	N/A ICAM	1998 type built			
5. ASME Code, Section III, Division	1:77	\$77	1 Actennal	• N/A			
6. Fabric sted in accordance with Cor	••••••	N/A Revision		ate			
7. Remarks:Inlet Fitting for ex	plosive actuated valve repla	scement kit for standby liquid e	control system.	······			

Pressure Test at 2800 psi for 10 minutes.

.

	or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Ordar
(1)	6515	\$515	(26)	
(2)	5516	6516	(27)	
(3)	5517	\$517	(28)	
4	5518	\$518	(29)	
(5)	5519	\$519	(30)	
(6)	5520	6520	(31)	
(7)	5521	5521	(32)	
(8)	5522	6522	(33)	
(9)	5523	5523	(34)	
(10)	\$524	\$524	(35)	
(III) 📃	525	5525	(36)	
(12)	5526	5526	(37)	
(13)			(38)	
(14)			(39)	
(15)			(40)	
(16)			(41)	
(17)			(42)	
(18)			(43)	
(19)			(44)	
(20)			(45)	
(21)			(46)	. 7
(22)			(47)	
(23)			(48)	7 RT
(24)			(49)	DR J
(25)			(50)	

10. Design pressure <u>• See Remarks</u> at tcmp. •F. Hydro, test pressure <u>• See Remarks</u> at tcmp. •F

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

. ....

		••
	FORM N-2 (Back - Pg. 2 of _2_)	
	Certificate Holder's Serial Nos.	5518 through 54
Design specifications certified by		58
Design report* certified by	Francis J. Domine	15
	Infinite applicable	NY Reg. no. 365
We certify that the statements made in this conforms to the rules of construction of the NPT Certificate of Authorit	CERTIFICATE OF COMPLIANCE	Infast Fittings
Stilles	N-1850	Eestenha a suss
Stilles	H-taka	Expression 2, 1998 CECocic Am -
Data 8/4/98 Narra	N-1850 Expires	CElourfm-
Date 8/4/93 Name	N-1850 Expires IST Consx Nuclear Signed Carl over Contract House Signed Carl CERTIFICATE OF INSPECTION wed by the Hational Board of Boiler and Pressure Vessel Inspect Hatford Steam Boiler Inspection & Insure Wese Kenns described in this Down	CECOLOM
Date <u>8/4/98</u> Name the undersigned, holding a valid commission iss <u>New York</u> and employed by <u>Hartford, CT</u> have inspected st st of my knowledge and belief, the Certificet ction III, Division 1. Each part fixed to	N-1850 Expires	CECOCIAM

RI DB

25 11

and a set of the set of a set of a set of the

with a later even and a subbased as

والمسادية والموادية المتحار

1C41-032 Sheet 1 of 2

	Rev. 9/11/00	•			ode Secti		NQI-1741
1. Owner:					۰.	Data 01.06.02	
I. Owner		TENERGY CORP. Road, Perry, Ohio	44081			Date <u>01-06-03</u> Sheet <u>1</u> of	
			<u>, 44001</u>				٤
2. Plant:	Perry Nuc	lear Power Plant (I	PNPP)			Unit <u>1</u>	
	10 Center	Road, Perry, Ohio	44081			02-012687, R-0	
						(Repair Org. P.O. N	lo., etc.)
3. Work Perfo	ormed By: _FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPF	2	Type Code Symt	ool Stamp <u>N</u> I
		enter Road, Perry,				Authorization No	33
						Expiration Date	9-26-05
I. Identificatio	on of System: 1C4	1 Standby Liquid C	Control				
	ble Construction Co					1074 Editi	
		NAME/SECT	<u>, Subsecti</u> TON/DIVISIO	DN/CLASS	<u> </u>	19 <u>74</u> Editi	Ofi
<u>Winter</u>	19 <u>75</u>	Addenda Code	Case(s) <u>N</u>	<u>I-242, N-27</u>	2, N-240,	<u>N-413, 1644-5, AN</u>	<u>ND 1644-8</u>
				·····			
(b) Constru	uction Code used f	or repairs, modifica	ations, or r	eplacemen		tion Addenda	N/A Code Case(s)
(c) ASME	Code Section XI a	ntionhla fan taona					
		oplicable for inserv	ice Inspec	tion:	<u>1989</u> Ed	tion Addenda	N/A Code Case(s)
(d) Applica	ble Edition of Sect	-			Ed	tion Addenda	
		on XI Utilized for F	Repairs, M		Ed	tion Addenda	
19 <u>89   </u>	ble Edition of Sect	on XI Utilized for F Addenda <u>N/A</u> Cod	Repairs, M	odification,	er Replac	tion Addenda	
19 <u>89 .</u> (e) Design	ble Edition of Sect	ion XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu	Repairs, M e Case(s) clear Oper	odification, rating Comp	Ed or Replac	tion Addenda	<u>N/A</u> Code Case(s)
19 <u>89 .</u> (e) Design	ble Edition of Sect <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u>	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu	Repairs, M e Case(s) clear Oper	odification, rating Comp	Ed or Replac	tion Addenda	Code Case(s ASME Code
19 <u>89</u> , (e) Design Identification Name of	ble Edition of Sect <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer	Repairs, M e Case(s) clear Oper , or Replac Nat. Board	odification, ating Comp cement Cor Other	Ed or Replac <u>bany</u> mponents Year	tion Addenda ements: Repair, Replacement,	Code Case(s)
19 <u>89</u> , (e) Design Identification Name of Component Piping	ble Edition of Sect <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer Pullman Power	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nuc Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Oper , or Replac Nat. Board No.	odification, ating Comp cement Cor Other ID.	Ed or Replac Dany nponents Year Built	Repair, Replacement, or Modification	Code Case(s ASME Code Stamped
19 <u>89</u> , (e) Design Identification Name of Component Piping	ble Edition of Sect <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer Pullman Power	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nuc Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Oper , or Replac Nat. Board No.	odification, ating Comp cement Cor Other ID.	Ed or Replac Dany nponents Year Built	Repair, Replacement, or Modification	Code Case(s ASME Code Stamped
19 <u>89</u> , (e) Design Identification Name of Component Piping	ble Edition of Sect <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer Pullman Power	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nuc Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Oper , or Replac Nat. Board No.	odification, ating Comp cement Cor Other ID.	Ed or Replac Dany nponents Year Built	Repair, Replacement, or Modification	Code Case(s ASME Code Stamped
19 <u>89</u> , (e) Design Identification Name of Component Piping	ble Edition of Sect <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer Pullman Power	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nuc Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Oper , or Replac Nat. Board No.	odification, ating Comp cement Cor Other ID.	Ed or Replac Dany nponents Year Built	Repair, Replacement, or Modification	Code Case(s ASME Code Stamped
19 <u>89</u> , (e) Design Identification Name of Component Piping	ble Edition of Sect <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer Pullman Power	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nuc Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Oper , or Replac Nat. Board No.	odification, ating Comp cement Cor Other ID.	Ed or Replac Dany nponents Year Built	Repair, Replacement, or Modification	Code Case(s ASME Code Stamped
19 <u>89</u> , (e) Design Identification Name of Component Piping System	ble Edition of Sect <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer Pullman Power	ion XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nuc Repaired, Modified Manufacturer Serial No. 1C41	Repairs, Mo e Case(s) <u>clear Oper</u> , or Replace Nat. Board No. 108	odification, ating Comp cement Cor ID. N/A	Ed or Replac Dany mponents Year Built 1985	Repair, Replacement, or Modification Replacement	ASME Code Stamped Yes

Remarks:	
NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEIN	
	I <u>G IN</u>
	<u>IG IN</u>
	<u>IG IN</u>
te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of report is included on each sheet, and (3) each sheet is numbered and the number of sheets is reco the front of this form.	ithis .
CERTIFICATE OF COMPLIANCE	
I, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report correct and the repair, modification or replacement of the items described above conforms to Section XI of the As Code and to the National Board Inspection Code "NR" rules.	i are SME
National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 0	5
Date Jan. 06_, 20 03_SignedFENOC-PNPPQE (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 Boild	er and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO	
	hav <del>e</del>
inspected the repair, modification or replacement described in this report on <u>JAN, 6</u> , 2003 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 liab	le in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspe	ection.
Date JAN. 06, 20 03 Signed Thomas JETUP Commissions NB 9330 "N" "I" "A" Ohio Comm (Inspector) (National Board (Include endorsem)	
(inspector) U (inspector) and jurisdiction, and no.)	

1C41-032 Sheet 2 of 2

> Carel AN

4

Date

ENPE CAL OF

1. Manufactured by	TARGET ROCK CORP., 1966E.	Broadhollow Rd., E. Farming
	Cleveland Electric Illum	nating Co., Cleveland, Ohio
2. Manufactured for	Han Perry NUCTES Ad 78 SEY PT	
3. Location of Installa		ant, Perry, Unio
<u>د</u>	1 1/2 x 2 REH-S-3	1982
CRNI CRNI	(Drewing Na.)	(Ner'L Brd. Na.) 6
(),4	odel No., Series No.)	Manufacturers' Seriel No.1
Type <u>Relief</u>	Valve lety, Safety Reliet; Pilot; Power Actusted	······································
	00 Nominal Inlet Size 1	1/2 Outlet Size 2"
	inch	inch inch
6. Set Pressure (PSI)	3) -1275- *1400 Bered	120
Stamped Capacity		Temperature         120           % Overpressure         Blowdown (PSIG)
Strubed Cebecity	Sat. Steam	-
Hydrostatic Test (P		Outlet
7. Pressure Reczining		
	Serial No. cr Identification	Meterial Specification Incl. Type or Grade
	<b></b>	
Body	300424	ASME-SA479-316L
Bonnet or Yoke	_300387	ASME-SA479-316
·		
Support Rods	30307E	ACME_C1/, 70_316T
Support Rods Nozzie	202075	ASME-SA479-316L
Nozzie Disc	202989	ASME-SA564, GR.6.30
Nazzie Disc Spring Washers		يري سيريد بيري والمحلفة الجال المالية الجار المتحد المجرب المحاذي الترجي المراجع
Nazzie Disc Spring Weshers Adjusting Screw		ير ميرود و المحدث الجام المحدث الم
Nazzie Disc Spring Weshers Adjusting Screw Spindle		ير ميرود و المحدث الجام المحدث الم
Nazzie Diec Spring Weshers Adjusting Screw Spindle Spring		ASME-SA564, GR.6.30
Nazzie Diec Spring Weshers Adjusting Screw Spindle Spring Balting		ويستجهدون والمستخاب المتعالي المتعالي المتعالي المتعالي والمتعالي والمتعالي والمتعالي والمتعالي والمتعالي والم
Nazzie Diec Spring Weshers Adjusting Screw Spindle Spring		ASME-SA564, GR.6.30

\* 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)

 $\bigcirc$ 

This form (ED0042) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. POD TREE S BX FE S 5646 m C ENPP

#### FORM NV-1 (Back)

**.** 

.

CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that this yaive conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., 1974 Edition, Addenda Sum. 1975 Code Case No
CERTIFICATION OF DESIGN
Design information on file at Target Rock Corporation
Stress analysis report (Class 1 only) on file at
Oesign specifications certified by Jan Paul Sockel
PE State Pa Reg. No 20130E
Stress report certified by
PE State Reg. No
* Signature not required—fist name only.
CERTIFICATE OF SHOP INSPECTION
L 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 ORAMERCIAL UNION INS.
ofBoston, Mass. have inspected the pump, or valve, described in this Data Report on
structed this pump, or velve, 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 menner for any personal injury or property damage or a loss of any VIN STATE CONVINISSION NO. 228
Orte 10/13 10-42 /1 / * / ALSO CONVERSION NO. 228
Signed William Thelend Commissions ALSO DOMMISSIONED IN PANA Ohio & Conn.

.

						1C41	-033
NIS-2	2/NR-1 OWNE As re Rev. 9/11/00	ER'S REPOR quired by the Prov					ENTS
1. Owner:						D.1. 0100/00	11021-1741
		TENERGY CORP. Road, Perry, Ohio	44081			Date <u>6/26/03</u> Sheet 1 of	<u>A</u>
_			44001				<u> </u>
2. Plant:	Perry Nuc	lear Power Plant (F	NPP)			Unit <u>ONE</u>	
	10 Center F	Road, Perry, Ohio	44081	·		<u>W.O. 01-12616-</u> (Repair Org. P.O. N	
3. Work Perfo	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPP		Type Code Symt	ool Stamp <u>NR</u>
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>11</u>		Authorization No	33
						Expiration Date	9/26/2005
4. Identificatio	n of System: <u>1C4</u>	1 STANDBY LIQU	ID CONTR	ROL		••••••••••••••••••••••••••••••••••••••	
5. (a) Applicat	ole Construction Co	ode: ASME Section	<u>n III_NB</u>			,19 <u>74</u> Editi	on
Winter	10 75	NAME/SECT					
<u>www.cer</u>	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	<u>//A</u>		······	
(b) Constru	uction Code used for	or repairs, modifica	ations, or r	eplacement	s: 1974	Winter 75	N/A
					Edi	tion Addenda	Code Case(s)
(C) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	<u>1989</u> Edi	tion Addenda	<u>N/A</u> Code Case(s)
(d) Applica	ble Edition of Secti	on XI Utilized for F	Repairs, Mo	odification,	or Replac	ements:	
19 <u>89 .</u>	<u>N/A</u> 19 <u>N/A</u>	Addenda <u>N/A</u>	e Case(s)				
(e) Design	Responsibilities E	IRSTENERGY Nu	clear Oper	ating Comp	any PNP	P	
6. Identification	n of Components F	Repaired, Modified,	, or Replac	ement Con	ponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	CONAX CORP	N/A	113	N/A	1975	REPLACEMENT	YES
	[		[			<u> </u>	
L				L	L		L
SUBASSEMBL	of Work: <u>REPLAC</u> Y SN#6311 AND I	ED PRIMER TRIG	GER ASM 1#6336 IN	VALVE 1C4	<u>GE 647-</u> 11F004B.	EQ. TRIGGER	
• 							
	cted: Hydrostatic	- 🗌 Pneumat	ic- 🔲 🛛 N	Iominal Op	erating Pr	essure- 🗌 Othe	er- 🗋
Pressure <u>N</u> /	A psi Tes	st Temperature <u>N</u>	<u>/A</u> d	legrees F	Code	Case(s) <u>N/A</u>	

-	
3	Remarks: NONE
-	
_	
_	
	NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
<u>E</u>	BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	ote: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of t report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recor
	the front of this form.
	CERTIFICATE OF COMPLIANCE
	I, DAVID K. ASKEW, certify that to the best of my knowledge and belief the statements made in this report a
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS
	Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33 to use the "NR stappe expires <u>26 Sept</u> , 20 05
	Date 6/26_, 20 03_ SignedFENOC-PNPP_ Quild K. Coken Q.E.
	(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
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	and employed by <u>HS.B. CT</u> of <u>HARTFORD</u> , <u>CONN</u> . h
	inspected the repair, modification or replacement described in this report on $July 1$ , 20 $b3$ and state that t
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance v
	Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
	concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable
	any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspec

REPORT NO. P0059-009

104-0033 Page 2 of 4 001

#### 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. Manufa	ctured and certified by	IST Co	nax Nuclear, 402 Sonwil Drive	, Cheektowaga, NY 14	225
	_		Iname and address of MPT Co	ertificate Holder)	
2. Manufa	ctured for	GE Nuclear E	Energy, 175 Curtner Avenue, S	ien Jose, CA 95125	
			frame and address of Purchase	1	
3. Locatio	n of Installation		Unknown		
			frame and address		
4. Type:_	N20000, Rev. G	SA479 304SST	75 KSI	N/A	2002
_	(drawing no.)	(mat'l spec. no.)	(tensile strength)	(CRN)	fyear build
5. ASME	Code, Section III, Divisio	n 1: 77	\$77	1	N/A
		(edition)	(addenda date)	(class)	(Code Case no.)
6. Fabrica	ted in accordance with Co	onst. Spec. (Div. 2 only)	N/A Revision	Dat	te
		•	tino.)		
7. Remark	s:Trigger Body Su	bassembly for explosive act.	lated valve replacement kit for	standby liquid control a	ystem.
	•				

Para. NB-2121 (b) is applicable to ram. Press Fit/Seal on .328 & .4375 diameters. Overall subassembly length is 2.5".

Pressure Test at 2800 psi for 10 minutes.

٩,

è

۰.

Nom. thickness (in.) See Remarks Min. design thickness (in.) See Remarks Dia. ID (ft & in.) See Remarks Length overall (ft & in.) See Remarks
 When applicable, Certificate Holders' Data Reports are attached for each item of this report:

	or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1)	6306	6306	(26)	
(2)	6307	6307	(27)	
(3)	6308	6308	(28)	
(4)	6309	6309	(29)	
(5)	6310	6310	(30)	
(6)	6311	6311	(31)	
(7)			(32)	
(8)			(33)	
(9)			(34)	
(10)			(35)	
(11)			(36)	
(12)			(37)	
(13)			(38)	
(14)			(39)	
(15)			(40)	1
(16)			(41)	
(17)			(42)	
(18)			(43)	
(19)			(44)	
(20)			(45)	
(21)			(46)	
(22)	9		(47)	
(23)	•		(48)	
(24)			(49)	
(25)			(50)	

\*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% x 11, (2) information in kems 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.

....

			O	06 <i>B</i>
· · ·	FORM N-2 (Back - Pg. 2	of _2_)		·*
	Certificate Holder's Se	rial Nos63	06through	6311
	CERTIFICATION OF DES	IGN		
Design specifications certified by	George I. Skoda (when applicable)	P.E. State	CA Reg. n	015847
Design report <sup>e</sup> cartified by	Francis J. Domino (when applicable)	P.E. State	<u>NY</u> Reg. n	o. <u> </u>
	CERTIFICATE OF COMPLU	ANCE		
We certify that the statements made in th conforms to the rules of construction of the		Tr!	igger Body Subassem	bly
		<b>•</b> .		
NPT Certificate of Authorization No.		Expires		
Date 1/23/22 Name	IST Conax Nuclear	Signed	Jauthorized represent	hmon_
	CERTIFICATE OF INSPEC	TION		
I, the undersigned, holding a valid commissio New York and employed by	on issued by the National Board of Boiler an		actors and the State o	r Province of
of <u>Hertford, CT</u> have inspec best of my knowledge and belief, the Cert Section III, Division 1. Each part listed has By signing this certificate, neither the insp described in this Data Report. Furthermon property damage or loss of any kind arisin	tificate Holder has fabricated these parts s been authorized for stamping on the da bector nor his employer makes any warra re, neither the inspector nor his employed	or appurtenances in te shown above. inty, expressed or imp r shall be liable in any	accordance with the a	ASME Code,
Data <u>5-1-02</u> Signe	Authorized impector	missions [Net1 Bd.	NB 10964AN NY	5057 te or prov. and no.]

12/23/2000

.

. . ....

:

•

1C41-0033 Page 30f 4 0081

		NUCLEAR PARTS AND AF quired by the Provisions of the		
		Not to Exceed One Day	y's Production	Pg. 1 of
Manufactur		IST-Conax Nuclea	r. Inc. 402 Sonwill Drive, Cheektoweg Iname and address of NPT Certificate Holderi	
Manufactur	ed for	GE Nuclear Energy, 1	75 Curtner Avenue, San Jose, CA 951	
		-	ame and address of Purchaser)	
Location of	Installation		Inknown (name and address)	
•			· •	
Type: N	38017, Rev. F (drawing no.)	Imat'l spec. no.) (tene	75 KSI N/A NA KCRNG	2002 tyter built
ASME Co	de, Section III, Division	1: 77	S77 1 (addende dette) (dess)	N/A
		(adition)	(addenda data) (class)	(Code Case no.)
		•	ARevision	
	Pressure Test at 2	800 psi for 10 minutes.	····	
			Dia. ID (ft & in.)815" Lengt	th overall (ft & in.)2.245
When appli	cable, Certificate Holde	rs' Data Reports are attached for e	ach item of this report:	<b>*</b> *
•	· ···	· · · · · · · · · · · · · · · · · · ·		
	·	Markanat		National
	or Appurtenance	National Board No.	Part or Appurtenance	Board No.
5	Serial Number	in Numerical Order	Serial Number	in Numerical Order
(1)	6331	6331	(26)	
(1) (2)	<u>6331</u> 6332	<u>6331</u> 6332	(26) (27)	
			(26) (27) (28)	
(2) (3)	6332 6333	6332	(29)	
(2) (3)	6332 6333	6332 6333	(28)	
(2) (3) (4)	6332 6333 6334	6332 6333 6334	(28)	
(2) (3) (4) (5) (6) (7)	6332 6333 6334 6335	6332 6333 6334 6335	(28) (29) (30) (31) (32)	
(2) (3) (4) (5) (6) (7) (8)	6332 6333 6334 6335	6332 6333 6334 6335	(28) (29) (30) (31) (31) (32) (33)	
(2) (3) (4) (5) (6) (7) (8) (9)	6332 6333 6334 6335	6332 6333 6334 6335	(28) (29) (30) (31) (31) (32) (33) (34)	
(2) (3) (4) (5) (6) (7) (8) (9) (10)	6332 6333 6334 6335	6332 6333 6334 6335	(28) (29) (30) (31) (31) (32) (33) (34) (35)	
(2)     (3)       (4)     (5)       (5)     (6)       (7)     (8)       (9)     (10)       (11)     (11)	6332 6333 6334 6335	6332 6333 6334 6335	(28) (29) (30) (31) (31) (32) (33) (34) (34) (35) (36)	
(2)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)	
(2)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)	
(2)       (3)         (4)       (5)         (5)       (6)         (7)       (8)         (9)       (10)         (11)       (11)         (12)       (13)         (14)       (14)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)	
(2)       (3)         (4)       (5)         (5)       (6)         (7)       (8)         (9)       (10)         (11)       (11)         (13)       (14)         (15)       (14)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (39)         (40)	
(2)       (3)         (4)       (5)         (5)       (7)         (8)       (9)         (10)       (11)         (12)       (13)         (14)       (15)         (14)       (15)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (40)         (41)         (42)	
(2)       (3)         (4)       (5)         (5)       (6)         (7)       (8)         (9)       (10)         (11)       (11)         (13)       (14)         (15)       (14)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (40)         (41)         (42)	
(2)       (3)         (4)       (5)         (5)       (7)         (10)       (11)         (111)       (12)         (131)       (143)         (145)       (165)         (17)       (17)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (39)         (40)         (41)         (42)         (43)	
(2)       (3)         (4)       (5)         (5)       (6)         (7)       (8)         (9)       (10)         (11)       (12)         (13)       (14)         (15)       (16)         (17)       (18)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (39)         (40)         (41)         (42)         (43)	
(2)       (3)         (4)       (5)         (6)       (7)         (10)       (11)         (12)       (13)         (14)       (15)         (14)       (15)         (16)       (17)         (18)       (19)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (40)         (41)         (42)         (43)         (45)	
(2)       (3)         (4)       (5)         (6)       (7)         (8)       (9)         (10)       (11)         (12)       (13)         (14)       (15)         (15)       (14)         (15)       (14)         (15)       (16)         (17)       (18)         (19)       (20)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (39)         (40)         (41)         (42)         (43)	
(2)       (3)         (4)       (5)         (6)       (7)         (10)       (11)         (12)       (13)         (14)       (15)         (15)       (14)         (15)       (14)         (15)       (16)         (17)       (18)         (19)       (20)         (21)       (21)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (40)         (41)         (42)         (43)         (45)	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (39)         (40)         (41)         (42)         (43)         (44)         (45)         (47)	
(2)       (3)         (4)       (5)         (6)       (7)         (8)       (9)         (10)       (11)         (12)       (13)         (14)       (15)         (15)       (14)         (15)       (16)         (17)       (18)         (19)       (20)         (21)       (22)         (23)       (23)	6332 6333 6334 6335	6332 6333 6334 6335	(28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (39)         (40)         (41)         (42)         (43)         (44)         (45)         (48)	

. ·

···· ·

. -

.

:

 .

. ..

. . . .

\*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form. FORM N-2 (Back - Pg. 2 of \_2\_ )

•

.'

.

008B

	Certificate Holder's Serial Nos6331		31 through	6338	
	CERTIFICATION OF D	ESIGN			
Design specifications certified by	George I. Skoda (when spolicable)	P.E. State	CA Reg. no.	15847	
Design report <sup>®</sup> cartified by	Francis J. Domina	P.E. State	NY Reg. no.	36832	
· .	CERTIFICATE OF COMP		~~~~		
We certify that the statements made in the conforms to the rules of construction of t			Inlet Fittings		
NPT Cartificate of Authorization No Date <u>4/23/02</u> Name	IST Conax Nuclear	ExpiresSigned	September 2, 200 ul Elouch	man	
• · · ·	(NPT Certificate Holder)		lauthorized representasive		
New York and employed by of <u>Hartford, CT</u> have inspec best of my knowledge and belief, the Car Section III, Division 1. Each part listed ha By signing this certificate, neither the insy described in this Data Report. Furthermo property damage or loss of any kind arisis	tificate Holder has fabricated these pa s been authorized for stamping on the pector nor his employer makes any wa re, neither the inspector nor his emplo ng from or connected with this inspect	a Report on <u>APB.</u> 2 ints or appurtenances in date shown above. arranty, expressed or im yer shall be liable in any tion.	accordance with the AS plied, concerning the equ	ME Code, iipment	
Date <u>5-1-02</u> Signed			NB 10964AN NY 50		
Date <u>5-1-02</u> Signed	Wutherized Inspection				
Date <u>5-1-02</u> Signed					

1041-0033 Page 4 of 4

IPS-67 REV. C

02

#### Data Sheet C Electrical and Visual Inspection

Customer:	General Electric Nuclear Energy
Customer P.O.:	52801023025
Conax S.O.:	7RX200
Item No.:	006
MPL NO.:	C41-F004

conax

uclear

P. T. LANDARD ...........

Replacement Kit P/N N27006-03 G.E. S/N	Inict Fitting P/N N38017-01B N.B. S/N	Trigger Body Subassembly P/N N20000-50 N.E. S/N	Primer Chamber P/N N27005-01 SEP S/N	Para 5 Bridge Resists 0.6 - 1. Pins 1-4	wire	Para 5.2 Dielectric Strength 500 ±25 VAC I minute	Para. 5.3 Circuit Isolation 500 VDC, 10 megohnus minimum	Para, 5.4 Visual Inspection
G.E.642-EQ	6331	6306	1490	Ac	cept	Accept	Accept	Accept
G.E.643-EQ	6332	<b>63</b> 07	1491	<b>A</b> 0	cept	Accept	Accept	Accept
G.E.644-EQ	6333	6308	1492	Ac	cept	Accept	Accept	Accept
G.E.645-EQ	6334	6309	1493	<u> </u>	cept	Accept	Accept	Accept
G.E.646-EQ	6335	<b>G</b> 10	1494	A0	cept	Accept	Accept	Accept
G.E.647-EQ	6336	<u>6311</u>	1495	<u>A0</u>	cept	Accept	Accept	Accept
				· · ·				
								<u> </u>

IST Conax Nuclear Technician:

Feency Date: 8/20/02 James

sur hor

Date: 8/2002 IST Conax Nuclear Quality:

						IEIZ	
		<b>R'S REPOR</b> quired by the Provi					
PNPP No. 9308 R	lev. 9/11/00						NQI-1741
1. Owner:	FIRST	ENERGY CORP.				Date <u>10/22/01</u>	
	10 Center F	load, Perry, Ohio	44081			Sheet 1 of	1
2. Plant:	Perry Nucl	ear Power Plant (F	NPP)			Unit <u>1</u>	<u> </u>
<u>10 Center Road, Perry, Ohio 44081</u> ( <i>Repair Org. P.O. No., etc.</i> )							lo., etc.)
3. Work Performed By: _ <u>FIRSTENERGY Nuclear Operating Company PNPP</u> Type Code Symbol Stamp NI							
	<u>10 Ce</u>	nter Road, Perry,	<u>Ohio 4408</u>	1		Authorization No.	33
						Expiration Date	26/2002
I. Identification	n of System: <u>1E12</u>	Residual Heat Re	emoval				
5. (a) Applicab	le Construction Co	de: <u>ASME Section</u> NAME/SECT	<u>n III_NC</u>	N/CLASS	· ·	,19 <u>74</u> Editio	on
<ul> <li>Winter</li> </ul>	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	<u>272, N242,</u>	<u>N413, N</u>	275, N282	
(b) Constru	ction Code used for	or repairs, modifica	ations, or n	eplacement			
(c) ASME (	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	<u>1989</u>	tion Addenda <u>N/A</u> tion Addenda	Code Case(s)
	ble Edition of Section N/A 19 N/A	Addenda	• • •	odification,	or Replac	éments:	
(e) Design	Responsibilities <u>Fl</u>		e Case(s) clear Opre	rating Com	pany PNF	<u>P</u>	
. Identification	n of Components F	lepaired, Modified,	or Replac	ement Con	nponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	Pullman Power	1E12	83	N/A	1985	Modification	Yes
			_				
			{	<u> </u>	[	[	
	·						
•	of Work: Modified	piping downstream	n of 1E12F	0042C per	SMRF 9	5-5075 as describe	<u>d in</u>
the remarks						<b>F</b> 7 <b>C</b> <sup>+</sup>	
	cted: Hydrostatic			•	-		er- 🔲
Pressure 15	50 psi     Tes	st Temperature 80	<u> </u>	legrees F	Code	Case(s) <u>n/a</u>	

.

NIS-2/NR-	<b>I OWNER'S REPORT</b>	FOR REPAIRS OR	REPLACEMENTS (Back)
PNPP No. 9308 Rev. 9/	11/00		NQI-1741

. . . . . . . .

9. Remarks: Installed 3/4" passive vent line using schedule 160 piping with Ht # 231634. Two half coupling
with HT# 032H were also installed, with all welding being performed using welding consumables ER 70S -2
1/8" HT# 065627 and 3/32" HT# F5512.
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>David E. Lindquist</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires <u>26 Sept.</u> 20 <u>02</u> Date OCT 22, 20 01 Signed FENOC-PNPP Drift: Think QE
Date OCT 22, 20 01 Signed <u>FENOC-PNPP</u> <u>Signed</u> <u>QE</u> (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, THOMAS G. LAPS, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by Factory Mutual Ins. Co of Johnston, RI have
inspected the repair, modification or replacement described in this report on OCT. 24, 20 01 and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or joss of any kind arising from or connected with this inspection. Date <u>OCT. 14</u> , 2001 Signed Thomas 2001 Commissions <u>NB 9330 "N" "I" "A" Ohio Comm.</u>
Data Content to Digned _ INDAMAN SOL MUSCL Commissions IND 3330 IN T A Onio Contint.

	P Doubt fight	<u>26 Sept.</u> , 20 <u>02</u> ´ <u>QE</u> (title)
CERTIFICATE OF INSPEC	TIONINSERVICE INSPECTION	
THOMAS G. LAPS holding a	valid commission issued by The Natio	nal Board of Boiler and
Pressure Vessel Inspectors and certificate of competenc	y issued by the jurisdiction of	OHIO
nd employed by Factory Mutual Ins. Co.	of Johnston, RI	have
spected the repair, modification or replacement describ	ed in this report on OCT. 24, 2001	_ and state that to
he best of my knowledge and belief, this repair, modifica section XI of the ASME Code and the National Board Ins		ed in accordance with
	•	ssed or implied,
ny manner for any personal injury, property damage or	G       FENOC-PNPP       Getter (authorized representative)       Getter (title)         ATIFICATE OF INSPECTION/INSERVICE INSPECTION       (title)       Getter (title)         ATIFICATE OF INSPECTION/INSERVICE INSPECTION       PS	
	(National Board	t (include endorsements),

IE12-271

NIS-2	2/NR-1 OWNE						ENTS	
PNPP No. 9308		quired by the Provi	sions of th		ode Sectio	on XI	NQI-1741	
1. Owner: FIRSTENERGY CORP Date 05/20/								
_	10 Center Road, Perry, Ohio 44081						1	
2. Plant: _	10 Center Road, Perry, Ohio 44081						Unit <u>1</u> 01-015388-000, R-0	
3. Work Performed By:								
	on of System: <u>1E1</u>		. Subsectio	on NF-1		Expiration Date		
(c ) ASME (d) Applica 19 <u>89</u> (e) Design	19 <u>75</u> uction Code used for Code Section XI and able Edition of Section <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> on of Components F	or repairs, modificat oplicable for Inservi ion XI Utilized for R Addenda <u>N/A</u> Code IRSTENERGY Nuc	ations, or re ice Inspec Repairs, Mo e Case(s) clear Oper	tion: odification, o	s: <u>1974</u> Edi <u>1989</u> Edi or Replac	ition Addenda <u>N/A</u> Addenda cements:	N/A Code Case(s) N/A Code Case(s)	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
Piping System	Puliman Power Products	1E12	N/A	5280- 1597	1985	Replacement	Yes	
	ļ		ļ				<u> </u> ]	
	<u> </u>			l	ł			
7. Description Nut (Heat Co	of Work: <u>Replaced</u> de BSL) on Suppo	Load Stud and J ort 1E12-H0026 (S	am Nut wi Snubber S/	th New Loa N 14303 .	d Stud ( I	Ht Code CMN) an	d New Jam	
	ucted: Hydrostatic I/A psi Te	-  Pneumat st Temperature N		Nominal Op legrees F	-	ressure- 🗌 Oth Case(s) <u>N/A</u>	er- []	

1.251

NIG-2/NR-1 UV IPP No. 9308 Rev. 9/11/00	/NER'S REPOR	T FOR RE	PAIRS OR REP	PLACEMENT	S (Back)
Remarks:					<u> </u>
	<u> </u>		·		
<u> </u>			······································		
D NAMEPLATE/STAME FECT AND JURISDIC					70 BEING IN
TEOT AND JOINIONIC	HUNAL AUTHORIT				
	·	· · · · · · · · · · · · · · · · · · ·			<u> </u>
ote: Attach all applicab					
	used, provided (1) siz				
the front of this for	on each sheet, and (	3) each sneet	s numbered and the	number of sneet	ts is recorded (
	****				
		TIFICATE OF (		· · · · ·	
I, Lester J. Erbacher correct and the repair, m	_, certify that to the be	est of my knowledgest of the items	edge and belief the sta e described above conf	tements made in the	his report are
concording and repair, in	oullication of replacen	IGIR OF and Roma			
Code and to the Nationa	I Board Inspection Cod	ie "NR" rules.			
Code and to the Nationa National Board Certificat	•		to use the "NR stam	g expires <u>9-26</u>	
	e of Authorization No. _ SignedFEI	33	to use the "NR stam	p.expires <u>9-26</u>	, 20 <u>05</u>
National Board Certificat	e of Authorization No. _ SignedFEI	33	to use the "NR stam	g expires <u>9-26</u>	, 20 <u>05</u>
National Board Certificat	e of Authorization No. _ Signed <u>FEI</u> (name of repa	33 NOC-PNPP ir organization)	to use the "NR stam (authorized repre-	p expires <u>9-26</u> QE sentative)	, 20 <u>05</u>
National Board Certificat Date <u>May 20</u> , 20 <u>03</u>	e of Authorization No. Signed <u>FEI</u> (name of repa	33 NOC-PNPP ir organization) F INSPECTION	to use the "NR stam (authorized represent)	n expires <u>9-26</u> QE sentative)	, 20 <u>05</u>
National Board Certificat	e of Authorization No. Signed <u>FEI</u> (name of repa	33 NOC-PNPP ir organization) F INSPECTION ,holding a valid	to use the "NR stam (authorized represent) INSERVICE INSPECT commission issued by	p expires <u>9-26</u> QE sentative)	, 20 <u>05</u> ( <i>title</i> ) rd of Boller and
National Board Certificat Date <u>May 20</u> , 20 <u>03</u>	e of Authorization No. Signed <u>FEI</u> (name of repa CERTIFICATE OF	33 NOC-PNPP ir organization) F INSPECTION ,holding a valid ompetency issu	to use the "NR stam (authorized represent INSERVICE INSPECT commission issued by ed by the jurisdiction o	p expires <u>9-26</u> QE sentative)	, 20 <u>05</u> ( <i>title</i> ) rd of Boller and
National Board Certificat Date <u>May 20</u> , 20 <u>03</u> , <u>Thomas G. Laps</u> Pressure Vessel Inspect	e of Authorization No. Signed <u>FEI</u> (name of repa CERTIFICATE OF ors and certificate of or rd Steam Boiler Ct.	33 NOC-PNPP ir organization) F INSPECTION ,holding a valid ompetency issu	to use the "NR stam (authorized represent INSERVICE INSPECT commission issued by ed by the jurisdiction o of <u>Hartford, Com</u>	p expires <u>9-26</u> <u>OE</u> sentative) TION The National Boar fOHIO m.	, 20 <u>05</u> ( <i>title</i> ) rd of Boller and have
National Board Certificat Date <u>May 20</u> , 20 <u>03</u> I, <u>Thomas G. Laps</u> Pressure Vessel Inspect and employed by <u>Hartfor</u>	e of Authorization No. Signed <u>FEI</u> (name of repa CERTIFICATE OF ors and certificate of co rd Steam Boiler Ct. dification or replaceme	33 NOC-PNPP ir organization) F INSPECTION ,holding a valid ompetency issu	to use the "NR stam (authorized represent iNSERVICE INSPECT commission issued by ed by the jurisdiction o of Hartford, Com this report on May 20	n expires <u>9-26</u> QE sentative) TON The National Boar fOHIO m 20 03 and s	20 <u>05</u> ( <i>title</i> ) rd of Boiler and have state that to
National Board Certificat Date <u>May 20</u> , 20 <u>03</u> I, <u>Thomas G. Laps</u> Pressure Vessel Inspect and employed by <u>Hartfor</u> inspected the repair, mod	e of Authorization No. Signed <u>FEI</u> (name of repa CERTIFICATE OF ors and certificate of or ad Steam Boiler Ct. dification or replaceme e and belief, this repair	33 NOC-PNPP ir organization) F INSPECTION ,holding a valid ompetency issu ant described in r, modification o	to use the "NR stam (authorized represent INSERVICE INSPECT commission issued by ed by the jurisdiction o of <u>Hartford, Con</u> this report on <u>May 20</u> r replacement has bee	n expires <u>9-26</u> QE sentative) TON The National Boar fOHIO m 20 03 and s	20 <u>05</u> ( <i>title</i> ) rd of Boiler and have state that to
National Board Certificat Date <u>May 20</u> , 20 <u>03</u> I, <u>Thomas G. Laps</u> Pressure Vessel Inspect and employed by <u>Hartfor</u> inspected the repair, mo the best of my knowledg Section XI of the ASME 0	e of Authorization No. Signed FEI (name of repa CERTIFICATE OF ors and certificate of or rd Steam Boiler Ct. dification or replaceme e and belief, this repair Code and the National	33 NOC-PNPP ir organization) F INSPECTION ,holding a valid ompetency issu ant described in r, modification o Board Inspectio	to use the "NR stam (authorized represent inversion issued represent commission issued by ed by the jurisdiction or of <u>Hartford, Com</u> this report on <u>May 20</u> r replacement has been on Code "NR" rules.	n expires <u>9-26</u> QE sentative) TON The National Boar fOHIO m, 20 03 and so n completed in acc	20 05 (title) Ind of Boiler and have state that to cordance with
National Board Certificat Date <u>May 20</u> , 20 <u>03</u> I, <u>Thomas G. Laps</u> Pressure Vessel Inspect and employed by <u>Hartfor</u> inspected the repair, mo the best of my knowledg Section XI of the ASME 0 By signing this certificate	e of Authorization No. Signed <u>FEI</u> (name of repart CERTIFICATE OF ors and certificate of or ad Steam Boiler Ct. dification or replaceme e and belief, this repair Code and the National o, neither the undersign	33 NOC-PNPP ir organization) F INSPECTION ,holding a valid ompetency issu ant described in r, modification o Board Inspection ned nor my emp	to use the "NR stam (authorized represent inversion issued by ad by the jurisdiction o of <u>Hartford, Con</u> this report on <u>May 20</u> r replacement has been on Code "NR" rules.	n expires <u>9-26</u> <u>QE</u> sentative) TION The National Boar fOHIO in, 20 03 and so in completed in accounty, expressed or i	20 05 (UUe) rd of Boller and have state that to cordance with
National Board Certificat Date <u>May 20</u> , 20 <u>03</u> I, <u>Thomas G. Laps</u> Pressure Vessel Inspect and employed by <u>Hartfor</u> Inspected the repair, mo the best of my knowledg Section XI of the ASME ( By signing this certificate concerning the work des	e of Authorization No. Signed <u>FEI</u> (name of repa CERTIFICATE OF ors and certificate of co rd Steam Boiler Ct. dification or replaceme e and belief, this repair Code and the National o, neither the undersign cribed in this report. Fu	33 NOC-PNPP ir organization) F INSPECTION ,holding a valid ompetency issu ant described in r, modification o Board Inspection and or my emp urthermore, neit	to use the "NR stam (authorized represent inservice inspect commission issued by ed by the jurisdiction of of <u>Hartford, Com</u> this report on <u>May 20</u> r replacement has been on Code "NR" rules. loyer makes any warra- her the undersigned no	p expires <u>9-26</u> <u>QE</u> sentative) TON The National Boar fOHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, OHIO m, m, m, m, m, m, m, m, m, m,	, 20 <u>05</u> ( <i>title</i> ) rd of Boiler and have state that to cordance with implied, all be liable in
National Board Certificat Date <u>May 20</u> , 20 <u>03</u> I, <u>Thomas G. Laps</u> Pressure Vessel Inspect and employed by <u>Hartfor</u> Inspected the repair, most the best of my knowledge Section XI of the ASME of By signing this certificate concerning the work dest any manner for any person	e of Authorization No. Signed <u>FEI</u> (name of repa CERTIFICATE OF ors and certificate of or rd Steam Boiler Ct. dification or replaceme e and belief, this repair Code and the National o, neither the undersign cribed in this report. Fu	33 NOC-PNPP ir organization) F INSPECTION ,holding a valid ompetency issu ant described in r, modification o Board Inspection and or my emp urthermore, neit	to use the "NR stam (authorized represent inservice inspect commission issued by ed by the jurisdiction of 	Dexpires <u>9-26</u> DE sentative) TON The National Boar fOHIO In, , 20 03 and s in completed in acc unty, expressed or i or my employer sha or connected with	20 05 (title) rd of Boller and have state that to cordance with implied, all be liable in this inspection.
National Board Certificat Date <u>May 20</u> , 20 <u>03</u> I, <u>Thomas G. Laps</u> Pressure Vessel Inspect and employed by <u>Hartfor</u> Inspected the repair, mo the best of my knowledg Section XI of the ASME ( By signing this certificate concerning the work des	e of Authorization No. Signed <u>FEI</u> (name of repa CERTIFICATE OF ors and certificate of or rd Steam Boiler Ct. dification or replaceme e and belief, this repair Code and the National o, neither the undersign cribed in this report. Fu	33 NOC-PNPP ir organization) F INSPECTION ,holding a valid ompetency issu ant described in r, modification o Board Inspection and or my emp urthermore, neit	to use the "NR stam (authorized represent INSERVICE INSPECT commission issued by ed by the jurisdiction o of <u>Hartford, Com</u> this report on <u>May 20</u> r replacement has bee on Code "NR" rules. loyer makes any warra her the undersigned no f any kind arising from Commissions <u>NB</u> 5	Dexpires <u>9-26</u> DE sentative) TON The National Boar fOHIO In, , 20 03 and s in completed in acc unty, expressed or i or my employer sha or connected with	20 05 (UUe) rd of Boiler and have state that to cordance with implied, all be liable in this inspection. <u>the Comm</u>

-

-----

IE12-272

	NIS-2						REPLACEM	ENTS
Pt	NPP No. 9308 R		quired by the Provi					NQI-1741
1.	Owner:	FIRST	ENERGY CORP.				Date 05/22/03	_
			Road, Perry, Ohio	44081			Sheet 1 of	<u>1</u>
2.	Plant:	Perry Nucl	ear Power Plant (P	NPP)			Unit <u>1</u>	
	<u>10 Center Road, Perry, Ohio 44081</u> ( <i>Repair Org. P.O. No.</i>							
					•••		0¢0204 20000	
3.	Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Corr	pany PNPP		Type Code Symb	ool Stamp <u>NR</u>
;		<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	1		Authorization No.	33
							Expiration Date	-26-05
4.	Identification	n of System: <u>1E1</u> 2	Residual Heat R	emoval Sy	stem			
5.	(a) Applicat	le Construction Co	de: ASME Sec III.	Subsectio	on NC-2		,19 <u>74</u> Editio	on
	(-)		NAME/SECT	ION/DIVISIO	N/CLASS			
	Winter	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	<u>242, N272,</u>	<u>N413, 16</u>	44-5, 1728	
	(h) Constant					4074	14/76	
	(b) Constru	ction Code used for	or repairs, modifica	luons, or n	eplacement		tion Addenda	<u>N/A</u> Code Case(s)
	(c) ASME (	Code Section XI ap	plicable for Inservi	ce Inspect	lion:	<u>1989</u>	<u>N/A</u> tion Addenda	N/A Code Case(s)
	(d) Applical	ble Edition of Secti	on XI Utilized for R	enairs. Mo	odification.			Code Case(s)
		<u>N/A</u> 19 <u>N/A</u>		•	· · · · · · · · · · · · · · · · · · ·			
		Responsibilities <u>F</u>	Code	e Case(s)	atino Com	anv		
6.		n of Components F						
ſ	Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
	Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
	Piping System	Pullman Power Products	1E12	N/A	N/A	1985	Replacement	Yes
	<del></del>							
ŀ								
╞					[			<u>}</u> {
L					1	<u> </u>	l	
		of Work: <u>Replaced</u> ew Lisega Snubbe					<u>ber 41372 ) on su</u> 152	pport 1E12-
	<u></u>	en Lisega onabbe	( Cenar Number	02010210				
8.	Test Conduc	cted: Hydrostatic	- 🗌 Pneumat	ic- 🔲 🕴	Nominal Op	erating P	ressure- 🗌 Oth	er- 🗋
	Pressure <u>N</u>	•	st Temperature <u>N</u>		legrees F	•	Case(s) <u>N/A</u>	

).	Remarks:
_	
IC	NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING
	FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
-	
0	te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of
	report is included on each sheet, and (3) each sheet is numbered and the number of sheets is reco
	the front of this form.
ſ	
	CERTIFICATE OF COMPLIANCE
	I, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report.
	I, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules.
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33 to use the "NR stamp expires" 9-26 20 05
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26 20 05 Date May 22 20 03 Signed FENOC-PNPP
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33 to use the "NR stamp expires" 9-26 20 05
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05 Date May 22_, 20 03 SignedFENOC-PNPP
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26, 20 05 Date May 22, 20 03 Signed FENOC-PNPP (authorized representative) QE (name of repair organization) (authorized representative) (title)
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05 Date May 22, 20 03 SignedFENOC-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 Boile
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33to use the "NR stamp expires 9-26, 20 05 Date May 22 20 03 SignedFENOC-PNPP(authorized representative) QE(title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, Thomas G, Laps,holding a valid commission issued by The National Board of Boile Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33to use the "NR stamp expires 9-26, 20 05 Date May 22, 20 03SignedFENOC-PNPP(authorized representative) QE (name of repair organization) (authorized representative) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, Thomas G, Laps, holding a valid commission issued by The National Board of Boile Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by Hartford Steam Boiler Ct, of Hartford, Conn holding a valid commission issued by the institution of holding a valid commission issued by the institution of holding a valid commission of
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33to use the "NR stamp expires 9-26, 20 05 Date May 22, 20 03SignedFENOC-PNPP(authorized representative) QE (name of repair organization) (authorized representative) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, Thomas G, Laps, holding a valid commission issued by The National Board of Boile Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by Hartford Steam Boiler Ct, of Hartford, Conn holding a valid commission issued by the institution of holding a valid commission issued by the institution of holding a valid commission of
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33to use the "NR stamp expires 9-26, 20 05 Date May 2220 03SignedFENOC-PNPP(authorized representative) QE (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 Boile Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO and employed by <u>Hartford Steam Boiler Ct</u> , of <u>Hartford, Conn</u> holding a this report on to <u>State</u> that that
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires <u>9-26</u> , 20 <u>05</u> Date <u>May 22</u> , 20 <u>03</u> Signed <u>FENOC-PNPP</u> (name of repair organization) (authorized representative) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, <u>Thomas G. Laps</u> , holding a valid commission issued by The National Board of Boile Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>Hartford Steam Boiler Ct</u> , of <u>Hartford, Conn</u> , h inspected the repair, modification or replacement described in this report on <u>Juvi</u> <u>13</u> 20 <u>03</u> and state that the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance of Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33to use the "NR stamp expires 9-2602 05 Date May 2220 03Signed <u>FENOC-PNPP</u> (authorized representative) QE (ittle)(name of repair organization)(authorized representative) (ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)(ittle)
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires <u>9-26</u> , 20 <u>05</u> Date <u>May 22</u> , 20 <u>03</u> Signed <u>FENOC-PNPP</u> <u>QE</u> (name of repair organization) (authorized representative) <u>QE</u> (uitle) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, <u>Thomas G, Laps</u> , holding a valid commission issued by The National Board of Boile Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>Hartford Steam Boiler Ct</u> , of <u>Hartford, Conn</u> , the inspected the repair, modification or replacement described in this report on <u>June 13</u> 20 <u>03</u> and state that the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance to 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 Ilable

. \_ \_ .....

-------

IE12-273

	NIS-2							ENTS
PI	NPP No. 9308 R		quired by the Provi					NQI-1741
1	Owner:	FIRST	ENERGY CORP.				Date 05/22/03	
			Road, Perry, Ohio	44081			Sheet 1 of	1
2	. Plant:	Perry Nucl	ear Power Plant (F	NPP)			Unit <u>1</u>	
		10 Center F	Road, Perry, Ohio 4	4081	<u></u>		01-015402-000, (Repair Org. P.O. N	
						•		
3.	Work Perfor	rmed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Con	pany PNPP		Type Code Symb	ool Stamp <u>NR</u>
	10 Center Road, Perry, Ohio 44081 Authorization No.							33
							Expiration Date	9-26-05
4.	Identification	n of System: <u>1E1</u> 2	2 Residual Heat R	emoval Sy	stem			
5	(a) Applicab	le Construction Co	ode: ASME Sec III.	Subsectio	on NC-2		,19 <u>74</u> Editi	on
			NAME/SECT	ION/DIVISIO				
	<u>Winter</u>	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	242, N272,	<u>N413,</u>		···-
	(b) Constru	iction Code used fo	or repairs, modifica	itions, or re	eplacement		tion W75 Addenda	N/A Code Case(s)
	(c) ASME (	Code Section XI ap	plicable for Inservi	ice Inspect	tion:	<u>1989</u>	<u>N/A</u>	<u>N/A</u>
	(d) Applical	blo Edition of Socti	on XI Utilized for F	lonoire M	dification	· .	tion Addenda	Code Case(s)
			Addenda <u>N/A</u>	•	Junication,	u Repiac	ements.	
			Cod	e Case(s)	otion Com			
6			IRSTENERGY Nuc Repaired, Modified,					
		r		Nat.	T	1	Repair,	ASME
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board	Other ID.	Year Built	Replacement,	Code
	Piping	Pullman Power	1E12	<u>No.</u> N/A	N/A	1985	Replacement	Yes
	System	Products				1300	Replacement	103
						1		
						1	t <u></u>	
			L				L	
7. H	Description 0769 with a r	of Work: <u>Replaced</u>	the original PSA-	35 Mech. 3	Snubber (S	erial Num	<u>ber 10812 ) on sur</u> 052	oport 1E12-
<u> </u>			Conta Number	<u>0201021</u>		<u>LOI 01-0</u>		
8.	Test Conduc	cted: Hydrostatic	- 🗍 Pneumat	ic- 🔲 🛛 🛛	Nominal Op	erating P	ressure- 🔲 Oth	er- []
	Pressure N		st Temperature N		legrees F	•	Case(s) <u>N/A</u>	
					-			

PN	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PP No. 9308 Rev. 9/11/00 NQI-1741
).	Remarks:
	NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
10	te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded of the front of this form.
ſ	CERTIFICATE OF COMPLIANCE
	I, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
	National Board Certificate of Authorization No to use the "NR stamp expires 9-26, 20 05
	Date May 22, 20 03 Signed FENOC-PNPP QE (name of repair organization) (authorized representative) (title)
	I, Thomas G. Laps,holding a valid commission issued by The National Board of Boiler and
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	and employed by Hartford Steam Boiler Ct. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on $\underline{J}_{UUE 13}$ , 20 $\underline{O3}_{}$ 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 June 13, 20 03 Signed Thomas 2 Jone Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)

IEI.	2-	2-	71	1
			_	

NIS-2	/NR-1 OWNE As re	Quired by the Prov					ENTS
PNPP No. 9308 F							NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 06/01/03	
	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	1
2. Plant:	Perry Nucl	ear Power Plant (F	PNPP)			Unit 1	
		Road, Perry, Ohio			•	01-015403-000,	R-0
					·	(Repair Org. P.O. N ORDER NO · EO	lo., etc.) 0008626
3. Work Perfo	rmed By: FIRSTE	NERGY Nuclear Op	erating Con	pany PNPP		Type Code Symb	ool Stamp <u>Ni</u>
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	1		Authorization No.	33
						Expiration Date	9-26-05
4. Identificatio	n of System: <u>1E1</u>	2 Residual Heat R	emoval Sy	stem			
5. (a) Applicat	ble Construction Co	ode: <u>ASME Sec III</u> NAME/SECT	, Subsection	on NC-2		,19 <u>74</u> Editi	on
Winter	19 75	Addenda Code		• •	N413, 16	644-5, 1728,	
(b) Constru	uction Code used for	or repairs, modifica	ations, or r	eplacement		tion Addenda	N/A Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u>	N/A	<u>N/A</u>
(d) Annling	his Edition of Cost	on MI I Willood for F		dification		ition Addenda	Code Case(s)
	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u>		•	Juncauon, 1	or Replac	ements.	
	Responsibilities F	Cod	e Case(s)	ating Comp	anv		
	n of Components F						
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
Piping System	Pullman Power Products	1E12	N/A	N/A	1985	Replacement	Yes
			1				
L 7. Description H0410 with new	of Work: <u>Replaced</u> v load pin Heat Nu	t the load pin on f mber N2186B.	Pipe attach	ment off the	e Snubbe	er of piping support	<u>1E12-</u>
B. Test Condu	cted: Hydrostatic	- 🗌 Pneuma	tic-	lominal Op	erating P	ressure- 门 Oth	er- 🗋
Pressure <u>N</u>	<u>/A</u> psi Te	st Temperature <u>N</u>	<u>//A</u> (	legrees F	Code	Case(s) <u>N/A</u>	

•

F

• • • •

9. Remarks:			
	······································		
		,	
		THE INTERFACE CONTROLS	
EFFECT AND JURISD	DICTIONAL AUTHORITY CONC	CURRENCE HAVING BEEN REC	EIVED.
			······
			•
Note: Attach all applic	ophia Manufacturar'a Data Rona	orts. Supplemental sheets such as	eliste skotsbaa or
		/2 in. x 11 in., (2) information in ite	
report is include	ed on each sheet, and (3) each	sheet is numbered and the numb	
the front of this	i form.		
r			· · · · · · · · · · · · · · · · · · ·
	CERTIFICAT	E OF COMPLIANCE	
I. Lester J. Erbacher	. certify that to the best of my	knowledge and belief the statement	s made in this report are
correct and the repair	ir, modification or replacement of th ional Board Inspection Code "NR" r	e items described above conforms to	Section XI of the ASME
	•	to use the "NR stamp expire	<u>~ 0.26 20.05</u>
			es <u>9-26</u> , 20 <u>05 _</u>
Date kine 1th 20.0			
Date <u>June 1th</u> , 20 <u>0</u>	(name of repair organiz	ation) (activorized representativo	e) (title)
Date <u>June 1th</u> , 20 <u>0</u>		ation) (adhorized representative	ə) (titlə)
Date <u>June 1th</u> , 20 <u>0</u>		<u></u>	ə) (titlə)
Date <u>June 1th</u> , 20 <u>0</u>	CERTIFICATE OF INSPE	CTION/INSERVICE INSPECTION	<u></u>
Date <u>June 1th</u> , 20 <u>0</u>	CERTIFICATE OF INSPE,holding	CTION/INSERVICE INSPECTION a valid commission issued by The Na	ational Board of Boiler a
Date <u>June 1th</u> , 20 <u>0</u> I, <u>Thomas G. Laps</u> Pressure Vessel Insp	CERTIFICATE OF INSPE ,holding pectors and certificate of competen	CTION/INSERVICE INSPECTION a valid commission issued by The Na cy issued by the jurisdiction of	ational Board of Boiler a
Date <u>June 1th</u> , 20 <u>0</u> I, <u>Thomas G. Laps</u> Pressure Vessel Insp and employed by <u>Har</u>	CERTIFICATE OF INSPE ,holding pectors and certificate of competen rtford Steam Boiler Ct.	CTION/INSERVICE INSPECTION a valid commission issued by The Na cy issued by the jurisdiction of of <u>Hartford, Conn.</u>	ational Board of Boiler an OHIO have
Date <u>June 1th</u> , 20 <u>0</u> I, <u>Thomas G. Laps</u> Pressure Vessel insp and employed by <u>Har</u> inspected the repair, a	CERTIFICATE OF INSPE ,holding pectors and certificate of competen rtford Steam Boiler Ct. modification or replacement descri	CTION/INSERVICE INSPECTION a valid commission issued by The Na cy issued by the jurisdiction of of <u>Hartford, Conn.</u> ibed in this report on <u>june 6</u> , 20 Q	ational Board of Boiler an OHIO have have 3 and state that to
Date <u>June 1th</u> , 20 <u>0</u> I, <u>Thomas G. Laps</u> Pressure Vessel Insp and employed by <u>Har</u> inspected the repair, r the best of my knowle	CERTIFICATE OF INSPE ,holding pectors and certificate of competen atford Steam Boller Ct. modification or replacement descri edge and belief, this repair, modific	CTION/INSERVICE INSPECTION a valid commission issued by The Na cy issued by the jurisdiction of of <u>Hartford, Conn.</u> ibed in this report on <u>ういそら</u> , 20 Q cation or replacement has been comp	ational Board of Boiler a OHIO hav hav
Date <u>June 1th</u> , 20 <u>0</u> I, <u>Thomas G. Laps</u> Pressure Vessel Insp and employed by <u>Har</u> inspected the repair, a the best of my knowle Section XI of the ASM	CERTIFICATE OF INSPE ,holding pectors and certificate of competen rtford Steam Boiler Ct. modification or replacement descri edge and belief, this repair, modific ME Code and the National Board In	CTION/INSERVICE INSPECTION a valid commission issued by The Na cy issued by the jurisdiction of of <u>Hartford, Conn.</u> ibed in this report on <u>june 6</u> , 20 <u>o</u> cation or replacement has been comp ispection Code "NR" rules.	ational Board of Boiler a OHIO
Date <u>June 1th</u> , 20 <u>0</u> I, <u>Thomas G. Laps</u> Pressure Vessel Insp and employed by <u>Har</u> inspected the repair, i the best of my knowle Section XI of the ASM By signing this certific	CERTIFICATE OF INSPE ,holding pectors and certificate of competen <u>atford Steam Boller Ct.</u> modification or replacement descri edge and belief, this repair, modific ME Code and the National Board In icate, neither the undersigned nor n	CTION/INSERVICE INSPECTION a valid commission issued by The Na cy issued by the jurisdiction of of <u>Hartford, Conn.</u> ibed in this report on <u>ういそら</u> , 20 <u>9</u> cation or replacement has been comp inspection Code "NR" rules. ny employer makes any warranty, ex	ational Board of Boiler a OHIO ' have and state that to pleted in accordance with pressed or implied,
Date <u>June 1th</u> , 20 <u>0</u> I, <u>Thomas G. Laps</u> Pressure Vessel Insp and employed by <u>Har</u> inspected the repair, a the best of my knowle Section XI of the ASM By signing this certific concerning the work of	CERTIFICATE OF INSPE ,holding pectors and certificate of competen <u>rtford Steam Boiler Ct.</u> modification or replacement descri edge and belief, this repair, modific ME Code and the National Board In icate, neither the undersigned nor n described in this report. Furthermo	CTION/INSERVICE INSPECTION a valid commission issued by The Na cy issued by the jurisdiction of of <u>Hartford, Conn.</u> ibed in this report on <u>Junite 6</u> , 20 <u>O</u> cation or replacement has been comp ispection Code "NR" rules. ny employer makes any warranty, ex re, neither the undersigned nor my e	ational Board of Boiler an OHIO have have and state that to pleted in accordance with pressed or implied, mployer shall be liable in
Date <u>June 1th</u> , 20 <u>0</u> I, <u>Thomas G. Laps</u> Pressure Vessel Insp and employed by <u>Har</u> inspected the repair, a the best of my knowle Section XI of the ASM By signing this certific concerning the work of any manner for any po	CERTIFICATE OF INSPE ,holding pectors and certificate of competen inford Steam Boiler Ct. modification or replacement descri edge and belief, this repair, modific ME Code and the National Board In cate, neither the undersigned nor m described in this report. Furthermo personal injury, property damage of	CTION/INSERVICE INSPECTION a valid commission issued by The Na cy issued by the jurisdiction of of <u>Hartford, Conn.</u> ibed in this report on <u>June 6</u> , 20 <u>Q</u> cation or replacement has been comp respection Code "NR" rules. In employer makes any warranty, ex re, neither the undersigned nor my er loss of any kind arising from or cont <b>Q</b>	ational Board of Boiler an OHIO ' and state that to Deted in accordance with pressed or implied, mployer shall be liable in nected with this inspectio
Date <u>June 1th</u> , 20 <u>0</u> I, <u>Thomas G. Laps</u> Pressure Vessel Insp and employed by <u>Har</u> inspected the repair, a the best of my knowle Section XI of the ASM By signing this certific concerning the work of any manner for any po	CERTIFICATE OF INSPE ,holding pectors and certificate of competen <u>rtford Steam Boiler Ct.</u> modification or replacement descri edge and belief, this repair, modific ME Code and the National Board In icate, neither the undersigned nor n described in this report. Furthermo	CTION/INSERVICE INSPECTION a valid commission issued by The Na cy issued by the jurisdiction of of <u>Hartford, Conn.</u> ibed in this report on <u>Jurie 6</u> , 20 <u>Q</u> ation or replacement has been comp respection Code "NR" rules. In employer makes any warranty, ex re, neither the undersigned nor my er loss of any kind arising from or cont <u>Lacor</u> Commissions <u>NB 9330 "N</u>	ational Board of Boiler an OHIO ' and state that to Deted in accordance with pressed or implied, mployer shall be liable in nected with this inspectio

					•	IEIZ -	- 275
NIS-2	NR-1 OWNE	R'S REPOR					ENTS
PNPP No. 9308 R					<u>.                                    </u>		NQI-1741
1. Owner:	FIRST	ENERGY CORP.		<u> </u>		Date <u>6/24/03</u>	
	10 Center R	load, Perry, Ohio	44081			Sheet 1 of	1
2. Plant:	Perry Nucl	ear Power Plant (P	NPP)	. <u></u> ,		Unit <u>ONE</u>	
	10 Center R	load, Perry, Ohio 4	4081			<u>W.O. 01-8353</u> R (Repair Org. P.O. N	
3. Work Perfo	rmed By: <u>FIRSTEI</u>	NERGY Nuclear Ope	erating Corr	noany PNPP		Type Code Symb	ol Stamp NR
	-	enter Road, Perry,				Authorization No.	
		<u></u>				Expiration Date	
A							
4. Identification	n of System: <u>1E12</u>	RESIDUAL HEA	REMOV	<u>4L</u>		•	
5. (a) Applicat	ele Construction Co	de: <u>ASME Section</u> NAME/SECT	111 NC			,19 <u>74</u> Editio	n
Winter	19 75 A				N-224 N	-413,N-282,N-275,	1644-5 1728
			0000(0)		<u>,,,,,,,,,,,,,,,,,</u>		
(b) Constru	ction Code used for	or repairs, modifica	ntions, or r	eplacement		tion Addenda	N/A Code Case(s)
(c) ASME (	Code Section XI ap	olicable for Inservi	ice Inspec	ion:	1989	N/A	N/A
(-)		,				tion Addenda	Code Case(s)
	ble Edition of Section		epairs, Mo	odification, o	or Replac	ements:	
19 <u>89</u> ,	<u>N/A</u> 19 <u>NO</u>		e Case(s)				
(e) Design	Responsibilities Fl	RSTENERGY Nuc	dear Opre	rating Com	pany PNF	<u>PP</u>	
6. Identification	n of Components F	Repaired, Modified,	, or Replac	ement Con	nponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Check Valve	Borg Warner	49716	N/A	N/A	1979	REPLACEMENT	YES
		·····	<u> </u>				<u> </u>
			<b> </b>				
							<u></u>
7. Description	of Work: Replaced	Lucive Gate Serial	# 200816		1512	FARGUE MI	78-8-03
				<u></u>	( <u>Br</u> ] <u>6</u>	F0064C m/ TO	L 8/8/03
8. Test Conduc	cted: Hydrostatic	- D Pneumat	ic- 🗍 🛛	Nominal Op	erating P	ressure- 🔲 Oth	er- 🛛
Pressure N	-	st Temperature N		legrees F	-	Case(s) <u>N/A</u>	
		• •					

NIS-2/NR-1 OWNER' PNPP No. 9308 Rev. 9/11/00	S REPORT FOR RE	PAIRS OR REPLACEM	ENTS (Back) NQI-1741
9. Remarks: NONE		· 	
NO NAMEPLATE/STAMPING P	ERFORMED DUE TO THE	INTERFACE CONTROLS OF	RA-2370
BEING IN EFFECT AND JURISE	DICTIONAL AUTHORITY C	ONCURRENCE HAVING BEEN	RECEIVED.
Note: Attach all applicable Manu drawings may be used, pro report is included on each the front of this form.	ovided (1) size is 8 1/2 in. x	upplemental sheets such as lists 11 in., (2) information in items 1 s numbered and the number of	through 6 of this
	CERTIFICATE OF C	OMPLIANCE	
correct and the repair, modification Code and to the National Board In	on or replacement of the items nspection Code "NR" rules.	dge and belief the statements mad described above conforms to Sect	ion XI of the ASME
National Board Certificate of Auth	orization No33	to use the "NR stampexpires, 26	Sept_20 05
Date <u>0/24</u>	(name of repair organization)	(authorized representative)	(title)
8/8/03	FRADC-PNPP	mont 1 Int	<u>qc</u>
CEF	RTIFICATE OF INSPECTION/	INSERVICE INSPECTION	
I, Thomas G, Laps	,holding a valid	commission issued by The Nationa	I Board of Boiler and
	• •	ed by the jurisdiction of	
and employed by	I.S. B. LT.	of HARTFORD CONN.	have
inspected the repair, modification	or replacement described in t	his report on July 24, 2003	and state that to
the best of my knowledge and be	lef, this repair, modification or	replacement has been completed	in accordance with
Section XI of the ASME Code and	I the National Board Inspectio	n Code "NR" rules.	
By signing this certificate, neither	the undersigned nor my empl	oyer makes any warranty, express	ed or implied,
concerning the work described in	this report. Furthermore, neith	ner the undersigned nor my employ	er shall be liable in
any manner for any personal inju Date <u>Jucy34</u> , 20 <u>03</u> Signed	Le A.D		
L			

PNPP No. 9308	2/NR-1 OWNE As re Rev. 9/11/00	ER'S REPOR					NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 6/26/03	
_		Road, Perry, Ohi	o 44081			Sheet <u>1</u> of	
2. Plant: _	Perry Nuc	lear Power Plant (	PNPP)	<u></u>		Unit <u>ONE</u>	
	10 Center F	Road, Perry, Ohio	44081			W.O. 01-15336- (Repair Org. P.O.	
3. Work Perfo	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	perating Cor	npany PNPP	•	Type Code Sym	ibol Stamp <u>I</u>
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>81</u>		Authorization No	o. <u>33</u>
						Expiration Date	<u>9/26/2005</u>
4. Identificatic	on of System: <u>1E1</u>	2 RESIDUAL HEA	T REMOV	AL			
5. (a) Applical	ble Construction Co	ode: ASME Section	on III NC			_,19 <u>74</u> Edit	ion
		NAME/SEC	TION/DIVISIO				
<u>Winter</u>	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	<u>1-242,N-272</u>	2,N-224,N	<u>-413,N-282,N-275</u>	5,1644-5,17
·							
(b) Constru	uction Code used fo	or repairs, modific	ations, or r	eplacement			<u>N/A</u>
					EQ	ition Addenda	Code Case
	Code Section XI an	plicable for Inserv	/ice Inspec	tion:	1989	N/A	N/A
	-	plicable for Inserv				ition <u>N/A</u> Addenda	N/A Code Case
(d) Applica	ble Edition of Secti	on XI Utilized for I	Repairs, M		Ed	tion Addenda	
(d) Applica 19 <u>89 ,</u>	ble Edition of Secti <u>N/A</u> 19 <u>NO</u>	on XI Utilized for I Addenda <u>N//</u> Coc	Repairs, M A le Case(s)	odification,	Edi or Replac	ition Addenda ements:	
(d) Applica 19 <u>89 ,</u> (e) Design	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u>	on XI Utilized for I Addenda <u>N//</u> Coc IRSTENERGY Nu	Repairs, Mo A de Case(s) iclear Opre	odification,	Ed or Replac pany PNF	ition Addenda eements: PP	
(d) Applica 19 <u>89 ,</u> (e) Design 5. Identificatio	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u> n of Components F	on XI Utilized for I <u>Addenda</u> <u>N//</u> Coo IRSTENERGY Nu Repaired, Modified	Repairs, Mo A de Case(s) iclear Opre I, or Replac	odification, arating Com cement Cor	Ed or Replac pany PNF nponents	ition Addenda eements: PP	Code Case
(d) Applica 19 <u>89 ,</u> (e) Design	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u> n of Components F	on XI Utilized for I Addenda <u>N//</u> Coc IRSTENERGY Nu	Repairs, Mo de Case(s) iclear Opre I, or Replac Nat. Board	odification, arating Com cement Cor	Ed or Replac pany PNF	ition Addenda eements: PP Repair, Replacement,	Code Case
(d) Applica 19 <u>89 ,</u> (e) Design dentificatio	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u> n of Components F Name of	on XI Utilized for I Addenda <u>N//</u> Coo IRSTENERGY Nu Repaired, Modified Manufacturer	Repairs, Mo de Case(s) iclear Opre I, or Replac	odification, arating Com cement Con Other	Editor Replace	ition Addenda eements: PP Repair,	Code Case
(d) Applica 19 <u>89</u> , (e) Design dentificatio Name of Component	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer PULLMAN	on XI Utilized for I Addenda <u>N//</u> Coc IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Ma de Case(s) iclear Opre I, or Replac Nat. Board No.	odification, trating Com cement Con Other ID.	Editor Replace pany PNF nponents Year Built	ition Addenda eements: PP Repair, Replacement, or Modification	Code Case ASME Code Stamped
(d) Applica 19 <u>89</u> , (e) Design dentificatio Name of Component	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer PULLMAN	on XI Utilized for I Addenda <u>N//</u> Coc IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Ma de Case(s) iclear Opre I, or Replac Nat. Board No.	odification, trating Com cement Con Other ID.	Editor Replace pany PNF nponents Year Built	ition Addenda eements: PP Repair, Replacement, or Modification	Code Case ASME Code Stamped
(d) Applica 19 <u>89</u> , (e) Design dentificatio Name of Component	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer PULLMAN	on XI Utilized for I Addenda <u>N//</u> Coc IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Ma de Case(s) iclear Opre I, or Replac Nat. Board No.	odification, trating Com cement Con Other ID.	Editor Replace pany PNF nponents Year Built	ition Addenda eements: PP Repair, Replacement, or Modification	Code Case ASME Code Stamped
(d) Applica 19 <u>89</u> , (e) Design 5. Identificatio Name of Component PIPING	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer PULLMAN	on XI Utilized for I Addenda <u>N//</u> Coc IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Ma de Case(s) iclear Opre I, or Replac Nat. Board No.	odification, trating Com cement Con Other ID.	Editor Replace pany PNF nponents Year Built	ition Addenda eements: PP Repair, Replacement, or Modification	Code Case ASME Code Stamped
(d) Applica 19 <u>89</u> , (e) Design 5. Identificatio Name of Component PIPING SYSTEM	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer PULLMAN POWER	on XI Utilized for I Addenda <u>N//</u> Coc IRSTENERGY Nu Repaired, Modified Manufacturer Serial No. 1E12	Repairs, Ma de Case(s) iclear Opre I, or Replac Nat. Board No. 83	odification, rating Com cement Cor ID. N/A	Editor Replace	ition Addenda eements: PP Replacement, or Modification REPLACEMENT	Code Case ASME Code Stamped YES
<ul> <li>(d) Applica 19 <u>89</u>.</li> <li>(e) Design</li> <li>5. Identification</li> <li>Name of Component</li> <li>PIPING SYSTEM</li> <li>Description</li> </ul>	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer PULLMAN POWER ON WORK: <u>REPLAC</u>	on XI Utilized for I Addenda <u>N//</u> Coc IRSTENERGY Nu Repaired, Modified Manufacturer Serial No. 1E12  ED RELIEF VALV	Repairs, Ma de Case(s) iclear Opre l, or Replac Nat. Board No. 83	odification, rating Com cement Cor Other ID. N/A N/A	Editor Replace	ition Addenda eements: PP Replacement, or Modification REPLACEMENT	ASME Code Stamped YES
(d) Applica 19 <u>89</u> , (e) Design 5. Identificatio Name of Component PIPING SYSTEM	ble Edition of Secti <u>N/A</u> 19 <u>NO</u> Responsibilities <u>F</u> n of Components F Name of Manufacturer PULLMAN POWER	on XI Utilized for I Addenda <u>N//</u> Coc IRSTENERGY NU Repaired, Modified Manufacturer Serial No. 1E12  ED RELIEF VALV LDED TO THE V/	Repairs, Ma de Case(s) iclear Opre l, or Replac Nat. Board No. 83	odification, rating Com cement Cor Other ID. N/A N/A	Editor Replace	ition Addenda eements: PP Replacement, or Modification REPLACEMENT	ASME Code Stamped YES

-----

~	
	Remarks: NONE
_	
N	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
51	EING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
c	te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this
	report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded
	the front of this form.
ſ	
ĺ	CERTIFICATE OF COMPLIANCE
I	I, DAVID K. ASKEW, certify that to the best of my knowledge and belief the statements made in this report are
l	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 26 Sept. 20 05
I	Date 6/26 20 03 Signed FENOC-PNPP Janic K Millerin DE
	National Board Certificate of Authorization No.       33       to use the "NR stamp expires 26 Sept.       20 05         Date 6/26       .       20 03       Signed       FENOC-PNPP       Aution       (authorized representative)       (title)
	Date 6/26 20 03 Signed FENOC-PNPP Aurice K Millerin DE
	Date 6/26 20 03 Signed FENOC-PNPP Janic K Millerin DE
	Date 6/26
	Date 6/26
	Date <u>6/26</u> , 20 <u>03</u> Signed <u>FENOC-PNPP</u> <u>Aurical Mattern</u> <u>DE</u> (name of repair organization) (authorized depresentative) (itile) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, <u>Thomas G, Laps</u> , holding a valid commission issued by The National Board of Boiler and
	Date 6/26, 20 03SignedFENOC-PNPP (name of repair organization)       Variable for the presentative of th
	Date <u>6/26</u> , 20 <u>03</u> Signed
	Date <u>6/26</u> 20 03       Signed
	Date <u>6/26</u> 20 03       Signed       FENOC-PNPP (name of repair organization)       Autical Multiple       Description         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, <u>Thomas G, Laps</u> ,holding a valid commission issued by The National Board of Boller and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of       OHIO         and employed by <u>H.S.B. CT.</u> of <u>Hartford , Conn.</u> have inspected the repair, modification or replacement described in this report on <u>July 30.</u> , 20 03       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.
	Date <u>6/26</u> 20 03       Signed       FENOC-PNPP (name of repair organization)       Variable Mathematical States (uitle)         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, <u>Thomas G. Laps</u> ,holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of       OHIO         and employed by <u>H.S.B. CT.</u> of <u>Hartford</u> , Conn,       have inspected the repair, modification or replacement described in this report on July 30, 20 03 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,
	Date <u>6/26</u> 20 03       Signed
	Date <u>6/26</u> 20 03       Signed
	Date <u>6/26</u> 20 03       Signed       FENOC-PNPP (name of repair organization)       Variable Mathematical Stress of the presentative)       (title)         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, <u>Thomas G. Laps</u> ,holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of       OHIO         and employed by <u>H.S.B. CT.</u> of <u>Hartford , Conn.</u> have inspected the repair, modification or replacement described in this report on July 30., 20 03       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,

\_ - - - -

REPORT NO. P0059-009

IE12-276 Page 20fZ Dir. 1225 FNG 181 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) 1966E. Broadhollow Rd., E. Farmingdale, NY TARGET ROCK CORP., 1. Manufactured by fluminating Co., Cleveland, Electric Ohio Cleveland 2. Manufactured for \_ IName and Address of Purchaser or Owner 3. Location of Installation Perry Nuclear Power Plant, Units 1 Ohio 2 North Per Ł (Name and Address) 4x6 REH-C-1 1981 -----4. (Year Built) (Nar'L Brd. No.) (CRN) (Drawing No.) (Model Na., Series Na.) Safety Relief Safety, Sefety Relief; Pilot; Power Actuated 2.94 76H-013 <u>thru</u> 4 Identifying Nos. 5. Valve . Serial No.) (Manufacturers' Type . Outlet Size Orifice Size Nominal Inlet Size inch inch inch 485 <u>480</u> 6. Set Pressure (PSIG) Rated Temperature . 24 138 .600 10 \_% Overpressure Blowdown (PSIG) \_ Stamped Capacity . lbs/hr @ Sat. Steam 1100 425 Hydrostatic Test (PSIG) Inlet Outlet \_ (Applicable to valves for closed systems only) 7. Pressure Retaining Pieces Material Specification Serial No. or Identification .Incl. Type or Grade ASME SA 105 400037-1 S/N thru 4 p/n 8odv 300393-1 4 ASME SA 105 p/n thru Sonnet 202021EX Support Rods 316I ASME SA 202111thru 4 479 n/a Nozzle 202104 ASME SA 564 GR 4 630 thru p/n Disc Spring Washers Adjusting Screw Spindle Spring SA ASME 193 B <u>3/4-10-35</u> Bolt Sock HD Boltina SA 193 ASME R-7 /4-10 <u>Bolt Sock</u> 3 Other Pieces HD SA 194 GR ASME 2B Hex 3/4-1 .0 NUT. ASME SA 105 <u>Flange p/n 2021141</u> thru s/n TOP Plate p/n 202108-1 SA 105 ASME BOSS p/n 202 ASME SA 105 4 s/n thru



• 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 (E30042) may be obtained from the Order Cept., ASME, 345 E. 47 St., New York, N.Y. 10017

#### FORM NV-1 (Back)

3

CERTIFICATE OF COMPLIANCE
We cartify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., <u>1974</u> Edition, Addenda SUM. 1975 Code Case No

		ICATION OF DESIG	••••			
Design information on file at	arget Roc	k Corporatio	n			
Stress analysis report (Class 1 only						
Design specifications certified by! .	Jan Paul	Sockel				
PE State Pa.		Reg. No	201305			
Stress report certified by						
PE State		Reg. No				
' Signature not required—list name only.						

#### CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>New York</u> and employed by <u>OMMErcial Union Ins</u>. of <u>Bostons</u> Mass <u>have</u> inspected the pump, or valve, described in this Data Report on <u>structed this pump</u>, 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 Aloss of any kind arising from or connected with this inspection. Date <u>1991</u> New York STATE COMMISSION NO. 2288 Signed <u>William</u> A Report.

(Nacl. Bd., State Prov. and No.)

G/C-مزنزت

(Inspector

						1E12-2	77
NIS-						R REPLACEN	IENTS
NPP No. 9308 R	As re lev. 9/11/00	quired by the Prov	visions of th	e ASME Co	ode Secti	on XI	NQI-1741
. Owner:	FIRS	TENERGY CORP.				Date 7-6-03	
<u> </u>		Road, Perry, Ohi	o 44081			Sheet <u>10F 2</u>	
 2. Plant:		ear Power Plant (				Unit ONE	
		Road, Perry, Ohio				WO 01-17175 R (Repair Org. P.O. N	
. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Or	perating Com	pany PNPP		Type Code Symt	ol Stamp <u>I</u>
	<u>10 C</u>	enter Road, Perry	Ohio 4408	<u>1</u>		Authorization No.	
						Expiration Date	09-26-2005
. Identification	n of System: <u>1E1</u>	2 Residual Heat F	temoval	<u> </u>			
i. (a) Applicat	ole Construction Co	ode: <u>ASME SECT</u> NAME/SEC	TION III NC	N/CLASS		1974 Ed	ition Ter
<u>WINTE</u>	<u>R 19_75_</u>	Addenda Code	Case(s) 10	<u> 544-5, 1728</u>	<u>3, N-413,</u>	<u>N-242, N-272,</u> №2	215, N224,
(b) Constru	iction Code used f	or repairs, modific	ations, or re	eplacement	s: <u>1974</u>	WINTER 75	i <u>see abov</u>
_					Ed	tion Addenda	Code Case
(c) ASME (	Code Section XI ap	plicable for Inser	vice Inspect	ion:	<u>1989</u>		n/a
(d) Applicat	ble Edition of Sect	on XIII tilized for i	Ponaire Ma	dification (		tion Addenda	Code Case
			Addenda	n/a			
_	Responsibilities <u>F</u>	Co	te Case(s)	- <u></u>	- COMPA		
	n of Components I					-	
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
Piping System	Pullman Power	1E12	## 83	1E12 F0063B	1985	replacement	yes
			T6 6463	100030			
			4703		ļ	·	
							L
		1				{	
							1
			L	04 with no	L	L	4.0
L	of work: Replaced	1 8° Check valve S	N 2-113/2-	UT with nev		k valve 5N 2-5100	
. Description							
	cted: Hydrostatic	- D Pneuma	tic. [] N	Iominal On	oratina D	ressure- 🛛 Oth	er- 🗌

NO N/	MEPLATE/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 thi report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorde the front of this form.
	CERTIFICATE OF COMPLIANCE
Cor	<u>whn W. Messenger</u> , certify that to the best of my knowledge and belief the statements made in this report are ect and the repair, modification or replacement of the items described above conforms to Section XI of the ASMI e and to the National Board Inspection Code "NR" rules. onal Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26, 2005
	<u>a 8-6</u> , 20 03 Signed <u>FENOC-PNPP</u> <u>QE</u> (name of repair organization) (authonized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, I	nomas G. Laps, holding a valid commission issued by The National Board of Boiler a
Pre	ssure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and	employed by H.S.B. CT. of Hartford, Conn. hav
insp	ected the repair, modification or replacement described in this report on Aug. 6, 20 03 and state that to
the	best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Sec	tion XI of the ASME Code and the National Board Inspection Code "NR" rules.
By	igning this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
con	cerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
	manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection
any	

-----

1E12-277 PG 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 certif	ied by: <u>Atwood &amp; Mor</u> (name	rrill Co., Inc., 285 Canal St. and address of N Certifica	<u>, Salem, MA</u> te Holder)	}
2. Manufactured for <u>First</u>	Energy Corporation, 10 Center (na	r Rd., P.O. Box 97. North F ame and address of Purcha		
3. Location of installation_	Perry Nuclear Power Plant, 10	Center Road, Dock No, 1 (name and address)	North Perry OH 44081	· · · · · · · · · · · · · · · · · · ·
4. Model No., Series No., o	r Type <u>Dual Plate Check Va</u>	lve Drawing	50079-A Rev. <u>03</u>	CRN <u>_N/A</u>
5. ASME Code, Section III,	Division 1: <u>1974</u> (edition)	Winter 1975 (addenda date)		N/A Code Case no.)
6. Pump or Valve <u>Valve</u>	Nominal inlet size <u>8</u> (in.)			
7. Material: Body _SA210	5-WCB Bonnet	N/A Disk	SA487-CA6NM Bolting	<u>N/A</u>
(a) Cert. Holder's Serial No.	(b) Nat'l 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
				<u></u>
	······································		· · · · · · · · · · · · · · · · · · ·	
<u></u>			<u> </u>	<u></u>
	······································		····	<u> </u>
······		·		
			······	
			<del></del>	
······			<u>х с с с с с с с с с с с с с с с с с с с</u>	. <u></u>
			·	
			•	
and the second			the second s	

\* 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, 2-51001-A

1

8. Design conditions 500 psi 480 °F or valve pressure class 300 (1) (pressure)

9. Cold working pressure \_\_\_\_\_740 \_\_\_\_ psi at 100°F

:

10. Hydrostatic test <u>1125</u> psi. Disk differential test pressure <u>825</u> psi

11. Remarks: \_\_\_\_\_ Pin Retainers SA 479-410 HT# : 150082 TR# 1170 \_\_\_\_\_

CERTIFICATION OF DESIGN	4
(when applicable)	Reg. no. <u>_24928-E</u> _ <u>N/A</u> Reg. no. <u>N/A</u>
CERTIFICATE OF COMPLIAN	CE
We certify that the statements made in this report are correct and that pump or valve confo Section III, Division 1.	orms to the rules for construction of the ASME Code,
N Certificate of Authorization NoN-2606	Expires6-13-04
Date_ <u>7/26/02</u> Name <u>Atwood &amp; Morrill Co., Inc.</u> Signe (N Certificate Holder)	ed <u>Social Sullia</u> (authorized representative)
	DN .
I, the undersigned, holding a valid commission issued by the National Board of Boiler and <u>New York</u> and employed by <u>HSBCT</u> of <u>Hartford</u> CT have inspecte accordance with the ASME Code, Section III, Division 1. By signing this Certificate, neither the inspector nor his employer makes any warranty, exp this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any of any kind arising from or connected with this inspection. Date <u>THECAL</u> Signed <u>Automaticate</u> Commission (N	d the pump, or valve, described in this Data Report on rtificate Holder has constructed this pump, or valve, in ressed or implied, concerning the equipment described in

. . .

(1) For manually operated valves only.

IE12-278

	Rev. 9/11/00				·		NQI-1741
1. Owner: _	FIRS	TENERGY CORP.				Date <u>8/5/03</u>	
	10 Center F	Road, Perry, Ohio	44081			Sheet <u>1</u> of	f <u>1</u>
2. Plant: _	Perry Nucl	ear Power Plant (I	PNPP)			Unit <u>one</u>	
	10 Center F	Road, Perry, Ohio	44081			01-17151 (Repair Org. P.O.	No., etc.)
3. Work Perfo	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPP		Type Code Sym	bol Stamp
	<u>10 Ce</u>	enter Road, Perry,	Ohio 4408	<u>1</u>		Authorization No	o. <u>33</u>
						Expiration Date	9/26/2005
• • • • • • • • • • • • • • • • • • •							
. Identificatio	on of System: Resi	dual Heat Remova	al				
5. (a) Applical	ble Construction Co			· · · · · ·		,19 <u>74</u> Edit	ion
		NAME/SEC1					
<u>Winter</u>	19 <u>75</u> /	Addenda Code	Case(s) 1	644-5,1728	N224,N2	42,N272,N275,N2	282
<u>N413</u>						. <u></u>	
(b) Constru	uction Code used for	or repairs, modifica	ations, or r	eplacement			<u>N/A</u>
					Edi	tion Addenda	Code Case
(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u>	<u>N/A</u>	<u>N/A</u>
		-	-		<u>1989</u> Edi	tion Addenda	<u>N/A</u>
(d) Applica	ble Edition of Secti	on XI Utilized for F	Repairs, Mo		<u>1989</u> Edi	tion Addenda	<u>N/A</u>
(d) Applica		on XI Utilized for F Addenda <u>N/A</u>	Repairs, Mo		<u>1989</u> Edi	tion Addenda	<u>N/A</u>
(d) Applica 19 <u>89 ,</u>	ble Edition of Secti	on XI Utilized for F Addenda <u>N/A</u> Cod	Repairs, Mo	odification, o	<u>1989</u> Edi or Replac	<u>N/A</u> tion Addenda	<u>N/A</u>
(d) Applica 19 <u>89 ,</u> (e) Design	ble Edition of Secti	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu	Repairs, Mo Case(s) Clear Opre	odification, o	<u>1989</u> Edi or Replac	<u>N/A</u> Addenda eements:	<u>N/A</u>
(d) Applica 19 <u>89 ,</u> (e) Design . Identificatio	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified	Repairs, Mo le Case(s) clear Opre , or Replac	odification, or rating Com cement Con	<u>1989</u> Edi or Replac	<u>N/A</u> Addenda eements:	<u>N/A</u>
(d) Applica 19 <u>89 ,</u> (e) Design	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u>	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu	Repairs, Mo Case(s) Clear Opre	odification, o	<u>1989</u> Edi or Replac	<u>N/A</u> Addenda eements:	N/A Code Case ASME Code
(d) Applica 19 <u>89</u> , (e) Design dentificatio	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> n of Components F Name of	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer	Repairs, Mo le Case(s) clear Opre , or Replac Nat. Board	odification, o rating Com cement Con Other	<u>1989</u> Edi or Replac pany PNF ponents Year Built	<u>N/A</u> Addenda eements: <u>PP</u> Repair, Replacement,	N/A Code Case ASME Code
<ul> <li>(d) Applica</li> <li>19 89 .</li> <li>(e) Design</li> <li>Identificatio</li> <li>Name of Component</li> <li>Piping</li> </ul>	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> on of Components F Name of Manufacturer	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Opre , or Replace Nat. Board No.	odification, or rating Com cement Con Other ID. 1E12D00	<u>1989</u> Edi or Replac pany PNF ponents Year Built	<u>N/A</u> Addenda ements: <u>PP</u> <u>Repair,</u> Replacement, or Modification	N/A Code Case ASME Code Stamped
<ul> <li>(d) Applica</li> <li>19 89 .</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> <li>Piping</li> </ul>	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> on of Components F Name of Manufacturer	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Opre , or Replace Nat. Board No.	odification, or rating Com cement Con Other ID. 1E12D00	<u>1989</u> Edi or Replac pany PNF ponents Year Built	<u>N/A</u> Addenda ements: <u>PP</u> <u>Repair,</u> Replacement, or Modification	N/A Code Case ASME Code Stamped
(d) Applica 19 <u>89</u> , (e) Design dentificatio Name of Component Piping	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> on of Components F Name of Manufacturer	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Opre , or Replace Nat. Board No.	odification, or rating Com cement Con Other ID. 1E12D00	<u>1989</u> Edi or Replac pany PNF ponents Year Built	<u>N/A</u> Addenda ements: <u>PP</u> <u>Repair,</u> Replacement, or Modification	N/A Code Case ASME Code Stamped
(d) Applica 19 <u>89</u> , (e) Design dentificatio Name of Component Piping	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> on of Components F Name of Manufacturer	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Opre , or Replace Nat. Board No.	odification, or rating Com cement Con Other ID. 1E12D00	<u>1989</u> Edi or Replac pany PNF ponents Year Built	<u>N/A</u> Addenda ements: <u>PP</u> <u>Repair,</u> Replacement, or Modification	N/A Code Case ASME Code Stamped
(d) Applica 19 <u>89</u> , (e) Design dentificatio Name of Component Piping	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> on of Components F Name of Manufacturer	on XI Utilized for F Addenda <u>N/A</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No.	Repairs, Mo e Case(s) clear Opre , or Replace Nat. Board No.	odification, or rating Com cement Con Other ID. 1E12D00	<u>1989</u> Edi or Replac pany PNF ponents Year Built	<u>N/A</u> Addenda ements: <u>PP</u> <u>Repair,</u> Replacement, or Modification	N/A Code Case ASME Code Stamped
(d) Applica 19 <u>89</u> , (e) Design Identificatio Name of Component Piping system	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> on of Components F Name of Manufacturer Pullman Power	on XI Utilized for F Addenda <u>N//</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No. 1E12	Repairs, Ma le Case(s) clear Opre , or Replac Nat. Board No. 83	odification, o rating Com cement Con Other ID. 1E12D00 03A	1989 Edi or Replace pany PNF nponents Year Built 1985	N/A Addenda eements: PP	N/A Code Case ASME Code Stamped Yes
(d) Applica 19 <u>89</u> , (e) Design Identificatio Name of Component Piping system	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> on of Components F Name of Manufacturer	on XI Utilized for F Addenda <u>N//</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No. 1E12	Repairs, Ma le Case(s) clear Opre , or Replac Nat. Board No. 83	odification, o rating Com cement Con Other ID. 1E12D00 03A	1989 Edi or Replace pany PNF nponents Year Built 1985	N/A Addenda eements: PP	N/A Code Case ASME Code Stamped Yes
<ul> <li>(d) Applica 19 <u>89</u></li> <li>(e) Design</li> <li>(e) Design</li> <li>Identification</li> <li>Name of Component</li> <li>Piping system</li> <li>Discription</li> </ul>	ble Edition of Secti <u>N/A</u> 19 <u>N/A</u> Responsibilities <u>F</u> on of Components F Name of Manufacturer Pullman Power	on XI Utilized for F Addenda <u>N//</u> Cod IRSTENERGY Nu Repaired, Modified Manufacturer Serial No. 1E12	Repairs, Ma e Case(s) clear Opre , or Replace Nat. Board No. 83	odification, or rating Component Con Other ID. 1E12D00 03A	1989 Editor Replace pany PNF ponents Year Built 1985	N/A Addenda eements: PP	ASME Code Stamped Yes

•

Remarks:		
<u></u>	· · · · · · · · · · · · · · · · · · ·	
O NAMEPLATE/STAMPIN	VG PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-23	370
EING IN EFFECT AND JU	RISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN REC	EIVED.
to: Attach all applicable t	fonufacturada Data Banada, Cunniamental abasta such as lista stat	ahan a-
	fanufacturer's Data Reports. Supplemental sheets such as lists, sketod, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 throu	
report is included on e	each sheet, and (3) each sheet is numbered and the number of sheet	s is recorded
the front of this form.		
	CERTIFICATE OF COMPLIANCE	
I, Michael J Tepsick	certify that to the best of my knowledge and belief the statements made in th	is report are
Code and to the National Bo	fication or replacement of the items described above conforms to Section XI and Inspection Code "NB" rules.	of the ASME
Code and to the National Bo	pard Inspection Code "NR" rules.	
Code and to the National Bo National Board Certificate of	eard Inspection Code "NR" rules. Authorization No. <u>33</u> to use the "NR stamp expires <u>26 Sept.</u>	20 <u>05</u>
Code and to the National Bo National Board Certificate of	pard Inspection Code "NR" rules.	20 <u>05</u>
Code and to the National Bo National Board Certificate of	eard Inspection Code "NR" rules. Authorization No. <u>33</u> to use the "NR stamp expires <u>26 Sept.</u>	20 <u>05</u>
Code and to the National Bo National Board Certificate of	bard Inspection Code "NR" rules.         f Authorization No.       33         to use the "NR stamp expires 26 Sept.         bigned       FENOC-PNPP         (name of repair organization)       Multiplication (authorized representative)	20 <u>05</u>
Code and to the National Bo National Board Certificate of Date <u>5 Aug.</u> , 20 <u>03</u> S	bard Inspection Code "NR" rules.         [ Authorization No33	, 20 <u>05</u> (title)
Code and to the National Bo National Board Certificate of Date <u>5 Aug.</u> , 20 <u>03</u> S	bard Inspection Code "NR" rules.         i Authorization No	_, 20 <u>05 _</u> ( <i>title</i> ) d of Boiler and
Code and to the National Bo National Board Certificate of Date <u>5 Aug.</u> , 20 <u>03</u> S I, <u>Thomas G Laps</u> Pressure Vessel Inspectors	bard Inspection Code "NR" rules.         [ Authorization No33	_, 20 <u>05 _</u> ( <i>title</i> ) d of Boiler and
Code and to the National Bo National Board Certificate of Date <u>5 Aug.</u> , 20 <u>03</u> S , <u>Thomas G Laps</u> Pressure Vessel Inspectors and employed by <u>HSB C</u>	bard Inspection Code "NR" rules.         Authorization No	20 <u>05</u>
Code and to the National Bo National Board Certificate of Date <u>5 Aug.</u> , 20 <u>03</u> S I, <u>Thomas G Laps</u> Pressure Vessel Inspectors and employed by <u>HSB C</u> Inspected the repair, modific	bard Inspection Code "NR" rules.         Authorization No	20 <u>05</u>
Code and to the National Bo National Board Certificate of Date <u>5 Aug.</u> , 20 <u>03</u> S I, <u>Thomas G Laps</u> Pressure Vessel Inspectors and employed by <u>HSB C</u> Inspected the repair, modific the best of my knowledge an	bard Inspection Code "NR" rules.         Authorization No	20 <u>05</u>
Code and to the National Bo National Board Certificate of Date <u>5 Aug.</u> , 20 <u>03</u> S I, <u>Thomas G Laps</u> Pressure Vessel Inspectors and employed by <u>HSB C</u> Inspected the repair, modific the best of my knowledge an Section XI of the ASME Cod	bard Inspection Code "NR" rules.         if Authorization No	20 <u>05</u> ( <i>title</i> ) d of Boiler and have tate that to ordance with
Code and to the National Bo National Board Certificate of Date <u>5 Aug.</u> , 20 <u>03</u> S , <u>Thomas G Laps</u> Pressure Vessel Inspectors and employed by <u>HSB C</u> Inspected the repair, modific the best of my knowledge an Section XI of the ASME Cod By signing this certificate, ne	bard Inspection Code "NR" rules.         Authorization No	20 <u>05</u>
Code and to the National Bo National Board Certificate of Date <u>5 Aug.</u> , 20 <u>03</u> S I, <u>Thomas G Laps</u> Pressure Vessel Inspectors and employed by <u>HSB C</u> Inspected the repair, modific the best of my knowledge an Section XI of the ASME Cod By signing this certificate, ne concerning the work describe	bard Inspection Code "NR" rules.         Authorization No.       33         igned       FENOC-PNPP         (name of repair organization)       Multiplication (authorized representative)         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	20 <u>05</u> ( <i>litle</i> ) d of Boiler and have tate that to ordance with mplied, .ll be liable in
Code and to the National Bo National Board Certificate of Date <u>5 Aug.</u> , 20 <u>03</u> S I, <u>Thomas G Laps</u> Pressure Vessel Inspectors and employed by <u>HSB C</u> Inspected the repair, modific the best of my knowledge an Section XI of the ASME Cod By signing this certificate, ne concerning the work describe	bard Inspection Code "NR" rules.         Authorization No.       33         igned       FENOC-PNPP         (name of repair organization)       Multiplication (authorized representative)         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	20 <u>05</u> ( <i>litle</i> ) d of Boiler and have tate that to ordance with mplied, .ll be liable in his inspection.

NIS-2	/NR-1 OWNF	R'S REPOR	T FOR		27- SOR	REPLACEM	ENTS
PNPP No. 9308 R	As re	quired by the Prov					
PNPP NO. 9308 H	ev. 9/11/00	<u>.                                    </u>					NQI-1741
1. Owner:	FIRS	TENERGY CORP.			*	Date 05/27/03	
	10 Center I	Road, Perry, Ohio	44081	·		Sheet 1 of	2
2. Plant:	Perry Nuc	lear Power Plant (F				Unit 1	
		Road, Perry, Ohio 4				03-004877-000.	R-0
_	<u></u>					(Repair Org. P.O. N ORDER 1 2000	lo., etc.)
3. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPP		Type Code Symb	ool Stamp <u>NR</u>
	<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No	33
						Expiration Date	9-26-05
4. Identificatio	n of System: <u>1E2</u>	2 High Pressure C	ore Spray	System	,		
5 (a) Applicat	le Construction C	ode: ASME Sec III	Subsection		2	,19 <u>74</u> Editi	
		NAME/SECT	ION/DIVISIC	N/CLASS	۷	19 <u>74</u> Eula	
<u>Winter</u>	19 <u>75</u>	Addenda Code	Case(s) _		- <u></u> .		·
<u>N272, 1</u>	<u>644-5, 1683-1, N4</u>	13			<u> </u>		<u> </u>
(b) Constru	ction Code used f	or repairs, modifica	ations, or r	eplacement		tion <u>W75</u> Addenda	N/A Code Case(s)
(c ) ASME (	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	1989		<u>N/A</u> Code Case(s)
(d) Applicat	ble Edition of Sect	ion XI Utilized for F	Repairs, Mo	odification,	or Replac	ements:	
19 <u>89</u> ,	<u>N/A19N/A</u>	Addenda <u>N/A</u>	·				
(e) Desian	Responsibilities F	Cod IRSTENERGY Nu	e Case(s) clear Oper	ating Com	banv		
	-	Repaired, Modified					
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping	Pullman Power	1E22	N/A	N/A	1985	Replacement	Yes
System	Products			44.7			
	[	<u> </u>				l	
L	l	L	L	L	I	I	<u></u>
	of Work: <u>Replace</u> rith Snubber Seria		10 Mech.	Snubber (S	Serial Nur	nber 15454 ) on pi	oing support
<u>1222-00034 v</u>							
	cted: Hydrostatic	Pneumat	tic- 🗌 1	Nominal Op	erating P	ressure- 🔲 Oth	 er- 🔲

9. Remarks:			·····
	, <u>,,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,	······································	
		······································	
NO NAMEPLATE/STAMPINO EFFECT AND JURISDICTIO			
	d, provided (1) size is 8 1/2 ir each sheet, and (3) each she	. x 11 in., (2) information	in items 1 through 6 d
correct and the repair, modified	CERTIFICATE O certify that to the best of my kno fication or replacement of the ite pard Inspection Code "NR" rules	wledge and belief the state ms described above confor	ments made in this reports made in this reports to Section XI of the a
National Board Certificate of	Authorization No. <u>33</u> igned <u>FENOC-PNPP</u> (name of repair organization	to use the "NR stamp	<u> </u>
	<u> </u>		
	CERTIFICATE OF INSPECTION	DN/INSERVICE INSPECTIC	
	,holding a va	lid commission issued by Ti	he National Board of Bo
Pressure Vessel Inspectors	,holding a va	lid commission issued by Ti sued by the jurisdiction of _	he National Board of Bo OHIO
Pressure Vessel Inspectors a and employed by <u>Hartford St</u>	,holding a va and certificate of competency is team Boiler Ct.	lid commission issued by Ti sued by the jurisdiction of _ of <u>Hartford. Conn.</u>	he National Board of Bo OHIO
Pressure Vessel Inspectors a and employed by <u>Hartford St</u> inspected the repair, modifica	,holding a va and certificate of competency is team Boiler Ct. ation or replacement described	lid commission issued by Ti sued by the jurisdiction of _ of <u>Hartford, Conn.</u> in this report on <u>Juue 4</u> .	0HIO 0HIO 20 03 and state th
Pressure Vessel Inspectors a and employed by <u>Hartford St</u> inspected the repair, modifica the best of my knowledge an	,holding a va and certificate of competency is team Boiler Ct.	lid commission issued by T sued by the jurisdiction of _ of <u>Hartford, Conn.</u> in this report on <u>June 4</u> . n or replacement has been a	0HIO 20 03 and state th
Pressure Vessel Inspectors a and employed by <u>Hartford St</u> inspected the repair, modifica the best of my knowledge an Section XI of the ASME Code	,holding a va and certificate of competency is team Boiler Ct. ation or replacement described nd belief, this repair, modification	lid commission issued by T sued by the jurisdiction of _ of <u>Hartford, Conn.</u> in this report on <u>June 4</u> n or replacement has been a ction Code "NR" rules.	DHIO OHIO 20 03 and state th completed in accordan
Pressure Vessel Inspectors a and employed by <u>Hartford St</u> inspected the repair, modifica the best of my knowledge an Section XI of the ASME Code By signing this certificate, ne	holding a va and certificate of competency is team Boiler Ct. ation or replacement described ad belief, this repair, modification te and the National Board Inspe	lid commission issued by T sued by the jurisdiction of _ of <u>Hartford, Conn.</u> in this report on <u>Juite 4</u> , n or replacement has been ction Code "NR" rules. mployer makes any warrant	ne National Board of
Pressure Vessel Inspectors a and employed by <u>Hartford St</u> inspected the repair, modifica the best of my knowledge an Section XI of the ASME Code By signing this certificate, nei concerning the work describe	holding a va and certificate of competency is team Boiler Ct. ation or replacement described nd belief, this repair, modification e and the National Board Inspe- sither the undersigned nor my e	lid commission issued by The jurisdiction of of <u>Hartford, Conn.</u> in this report on $Juhe 4$ . n or replacement has been action Code "NR" rules. mployer makes any warrant	he National Board of Bo OHIO 20 03 and state th completed in accordance y, expressed or implied my employer shall be li
Pressure Vessel Inspectors a and employed by <u>Hartford St</u> inspected the repair, modifica the best of my knowledge an Section XI of the ASME Code By signing this certificate, nei concerning the work describe	holding a va and certificate of competency is team Boiler Ct. ation or replacement described ad belief, this repair, modification is and the National Board Inspe- sither the undersigned nor my ea ed in this report. Furthermore, r I injury, property damage or los	lid commission issued by The sued by the jurisdiction of of <u>Hartford, Conn.</u> in this report on <u>Juke 4</u> . In or replacement has been ction Code "NR" rules. Imployer makes any warrant whether the undersigned nor of any kind arising from or why Commissions <u>NB 933</u>	he National Board of Bo OHIO 20 03 and state th completed in accordance y, expressed or implied my employer shall be li connected with this ins

# FORM/NF-1/NPT/CERTIFICATE HOLDERS: DATA REPORT FOR COMPONENT SUPPORTS\* As Required by the Provisions of the ASME Code Rules, Section III, Division 1

Manufactored & <u>Pacific Schenhalfic UNA65555557atescollege</u> Blvd. Analeim, Ca. 192803

Sr. Cocelion of Initialiation

...... 
 (b)
 (c)
 (d)
 (e)
 (f)
 (g)

 'Canadian (
 Applicable
 Stress Report
 Type of

 Registration (
 Drewings with
 ort Load Gapa)
 Component
 (e)

 No
 Itast Revie@Date
 city.DataSheet
 Support
 Class
 Not
 · (a) Pini-Component Support) -I/D, No.A Year Built 11270-11273 None 1801103-07-H DR-1352-Rev. B 1981 5.300 (E) 69464**0** (19 UAN 1.3 19

(8)

CERTIFICATE OF COMPLIANCEL We can filly that the statements made in this report are correct and that have components topport conform to the rule of contruction of the ASME Code for Nuclear Power Plant Components Section III. Divisional Edition <u>21974</u> Code Care (S) <u>1644-61</u> Addenda<u>1974</u> Addenda<u>1974</u> Signed <u>1 Pacific Code Scient 1500</u> Signed <u>1 Pacific Code Scient 1500</u> Signed <u>1 Pacific Code Scient 1500</u> Code Care (S) <u>1644-61</u> Signed <u>1 Pacific Code Scient 1500</u> Code Care (S) <u>1644-61</u> Signed <u>1 Pacific Code Scient 1500</u> Code Care (S) <u>1644-61</u> Signed <u>1 Pacific Code Scient 1500</u> Code Care (S) <u>1644-61</u> Signed <u>1 Pacific Code Scient 1500</u> Code Care (S) <u>1644-61</u> Signed <u>1 Pacific Code Scient 1500</u> Code Care (S) <u>1644-61</u> Signed <u>1 Pacific Code Scient 1600</u> Scient 1600 Scient

ICENTIFICATION OF DESIGN

Denor Information on File at <u>Pacific Scientific</u> Street Report Code Cabacity Date Sheatron File at Pacific Scientific Effect Persita 3256

Quinger Specifications Cartified by (11) <u>Leos FA Ayes</u> PEISister California

Sided Analyzis Report or Load Capacity Data Sheets Certified by (1): <u>California</u> Feg. No. 11 Course reconfy sugreture noticedured

Supplemental sheets in form of usis is ketches or drawings may be used provided (1) size is 82/init 12) information in terms and (3) each sheet is numbered and number of sheets is recorded all or this form.

# FORMINE 11(Back)

# CERTIFICATE OF SHOP INSPECTION

In the sundersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel. Inspectors and the State of Acovince of <u>California</u> and amployed by <u>HSBIAT Com</u> of <u>HBAT fords</u> or <u>NO-10</u> have inspected the component supports described in this Data Record on <u>NO-15</u> 1921 Land state that to the bestrol my knowledge and belief the INPT Certificate Holder, has constructed these component supports in eccordance

nth the ASME Code for Nuclean Power Plant Components vauuno this certificate methers the inspector nor his employer makes any warranty respressed or implied, concerning the compo vpports described with is Data Reports Further more mether the inspector nor his employer shall be liable in any manner for e-sonal injury or property damage or a loss of any kind arising from or connected with this inspection

are <u>10.5.81</u> oped <u>commissions</u> <u>commissions</u> <u>Constitutions</u> 
GERTIFICATION FOR FIELD INSPECTION secunder/signed: holding a valid commitsion essued by The National Board of Boiler and Pressure Vessel Inspective under ployed by

have compared the statements in this Data Report with the described component supports and statements in this Data Report with the described component supports and statements in this Data Report with the described component supports and statements in this Data Report with the described component supports and statements in this Data Report with the described component supports and statements in this Data Report with the described component supports and statements in this Data Report with the described component supports and statements in the best of my now ledge (and belief) the NET Continue with the described component supports and components of the Sime Report of the sector supports and statements in the line of the report of the sector and component supports and components of the sector supports and statements in the line sector of the sector of the sector supports and statements of the sector of

Caller 2

1E22-	055
-------	-----

PNPP No. 9308 I		quired by the Prov					NQI-1741
1. Owner: _	FIRS	TENERGY CORP.	•	- <u></u>		Date 05/27/03	
_	10 Center I	Road, Perry, Ohio	0 44081			Sheet 1 of	2
2. Plant:	Perry Nuc	lear Power Plant (	PNPP)			Unit <u>1</u>	
		Road, Perry, Ohio				03-004824-000, (Repair Org. P.O. N OPticety 20001	lo., etc.)
3. Work Perfo	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPP		Type Code Syml	
	<u>10 C</u>	enter Road, Perry,	Ohio 4408	<u>11</u>		Authorization No	33
						Expiration Date	9-26-05
I. Identificatio	on of System: <u>1E2</u>	2 High Pressure C	ore Spray	System		· · · · · · · · · · · · · · · · · · ·	
5. (a) Applica	ble Construction Co	ode: <u>ASME Sec II</u> NAME/SEC	I. Subsection	on NC/NF-: N/CLASS	2	,19 <u>74</u> Editi	on
Winter	19 <u>75</u>	Addenda Code	Case(s) _				
<u>N272,</u>	1644-5, 1683-1, N2	24-1, N240, N242	. N275, AN	ID N413			
(b) Constr	uction Code used f	or repairs, modific	ations, or r	eplacement		tion Addenda	N/A Code Case
(c ) ASME	Code Section XI ap	oplicable for Inserv	vice Inspec	tion:	<u>1989</u> Edi	tion <u>N/A</u>	N/A Code Case
(d) Applica	ble Edition of Sect	ion XI Utilized for I	Repairs, M	odification,	or Replac	ements:	
	<u>N/A</u> 19 <u>N/A</u>	Coc	e Case(s)				
	Responsibilities <u>F</u> in of Components I						
Name of Component	Name of	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping System	Pullman Power Products	1E22	N/A	N/A	1985	Replacement	Yes
				· ·			1
		· ·····	1				
			1	1			
}	1	L				<u> </u>	4500
	· · · · · · ·		<b>•••••</b>			1 AD DIAIDA CUDDA	
	of Work: <u>Replace</u> nubber Serial Num		Snubber (S	Serial Numb	<u>er 10030</u>		

\_\_\_\_\_

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741 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, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26 20 05
Date May 27_, 20 03_ Signed
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, Thomas G. Laps ,holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by Hartford Steam Boiler Ct. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on June 9, 20 03 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 JUNE 1, 20 03 Signed Thermon Stars Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)
L

•

As Required by the Provisions of the ASME				NT SUPPO ision 1	RTS.
1. Manufactured by Pacific Scientific 1346 S. STate ( (Name and addr	and of NOT Cast	diants Malds.	-		
Power Piping Co. 829 Beaver Ave.	Pittsburg	h, PA 19	5233	/	z- 054
K. Manutacturer tor (Name and additional addi	rest of purchas	ar or owned	r}		2 3 0
Unknown				-	$\sim$ $\sim$
3. Location of Installation					
4. Identification					•
(a) (b) (c) (d)		(e)	(1)	(g)	(h)
Component Canadian Applicable Stress Rep Support Registration Drawings with or Load Ca	· · ·	ipe of Iponent		Nat'l Board	
I.D. No. No. Last Rev. & Date city Date St		pport	Class	No.	Year Bu
1249-11257 1001102 07 H DD 1252 PD					
	V• D	Linear	1	None	1981
(2)					
(3)					·····
(4)	<u></u>			<u>_</u>	·
(5)				·	· · ·
(6)			· .	JUN 9	1982
(7)				ANTA	<u> </u>
(8)				SH ay Te	3
(9)				0 1042	<u><u>E</u>I</u>
10)					2
i. Remarks:		· · · · · · · · · · · · · · · · · · ·			<u> </u>
· · · · · · · · · · · · · · · · · · ·				- VINON	J
CERTIFICATE OF CC	OMPLIANCE				······································
CERTIFICATE OF CC Ve certify that the statements made in this report are correct and that t of the ASME Code for Nuclear Power Plant Components, Section III, Div Code Case No Code Case No Date	these componentiation 1, Edition	ints support	is contorm	n to the rules ands Wints	of construction er 175 (Date).
Ve cartify that the statements made in this report are correct and that the statements made in this report are correct and that the statements of the ASME Code for Nuclear Power Plant Components, Section III, Division Code Case No. <u>1644-6</u> Pacific Scientific Scientific (NPT Certificate Holder) 13 QR	these componentiation 1, Editic	Rom	Adda Ul L	n to the rules ands Wints P. Mints Support	<u>er '75</u>
Ve certify that the statements made in this report are correct and that to of the ASME Code for Nuclear Power Plant Components, Section III, Div Code Case No	these componentiation 1, Edition	Rom	Adda Ul L	anda Wint A. A. Support	<u>er '75</u>
Ne certify that the statements made in this report are correct and that the statements made in this report are correct and that the ASME Code for Nuclear Power Plant Components, Section III, Diverside Case No. <u>1644-6</u> Date <u>9/17/81</u> Signed <u>Pacific Scientific</u> (NPT Certificate Holder) Date ASME Certificate of Authorization No. <u>1198</u> to AUXr. 4, 1984	these componentiation 1, Editic	Rom	_, Adda UL L ponent	anda Wint A. A. Support	<u>er '75</u>
Ne cartify that the statements made in this report are correct and that the statements made in this report are correct and that the ASME Code for Nuclear Power Plant Components, Section III, Diverside Case No. <u>1644-6</u> Date <u>9/17/81</u> Signed <u>Pacific Scientific</u> (NPT Certificate Holder) 1198 to the ASME Certificate of Authorization No. <u>1098</u>	these componentiation 1, Editic	Rom	_, Adda UL L ponent	anda Wint A. A. Support	<u>er '75</u>
Ne certify that the statements made in this report are correct and that the statements made in this report are correct and that the ASME Code for Nuclear Power Plant Components, Section III, Diverside Case No. <u>1644-6</u> Date <u>9/17/81</u> Signed <u>Pacific Scientific</u> (NPT Certificate Holder) Date ASME Certificate of Authorization No. <u>1198</u> to Aug. 4, 1984	these compone rision 1, Editic by o use the	Rom	_, Adda UL L ponent	anda Wint A. A. Support	er 175 (Data)
Ne cartify that the statements made in this report are correct and that the statements made in this report are correct and that the ASME Code for Nuclear Power Plant Components, Section III, Div code Case No. <u>1644-6</u> Data <u>9/17/81</u> Signed <u>Pacific Scientific</u> (NPT Certificate Holder) 1198 Aur ASME Certificate of Authorization No. <u>1198</u> (Date)	these compone rision 1, Editic by o use the	Rom	_, Adda UL L ponent	anda <u>Wint</u> 2. Add Support	er '75 (Date)
Ve cartify that the statements made in this report are correct and that the ASME Code for Nuclear Power Plant Components, Section III, Div code Case No. <u>1644-6</u> Pacific Scientific (NPT Certificate Holder) 1198 to Aur ASME Certificate of Authorization No. Aug. 4, 1984 (Date) CERTIFICATION O Pacific Scientific tress Report or Load Capacity Data Sheets on File at: Pacific Scientific	these compone rision 1, Editic by o use the	Rom	_, Adda UL L ponent	anda <u>Wint</u> 2. Add Support	er '75 (Date)
Ve cartify that the statements made in this report are correct and that the first ASME Code for Nuclear Power Plant Components, Section III, Div code Case No. <u>1644-6</u> Data <u>9/17/81</u> Signed <u>Pacific Scientific</u> (NPT Certificate Holder) 1198 to Aur ASME Certificate of Authorization No. <u>1198</u> to ymbol expires <u>Aug. 4, 1984</u> (Date) CERTIFICATION O Design Information on File at <u>Pacific Scientific</u> tress Report or Load Capacity Data Sheets on File at: Pacific Scientific Filed Per NA 3256	these compone rision 1, Editic by o use the	ints support in 1974 Runn Comp	Adde	anda Wint	POTVE DEC 7 OA APP
Ve cartify that the statements made in this report are correct and that the ASME Code for Nuclear Power Plant Components, Section III, Div code Case No. <u>1644-6</u> Pacific Scientific (NPT Certificate Holder) 1198 to Aur ASME Certificate of Authorization No. Aug. 4, 1984 (Date) CERTIFICATION O Pacific Scientific tress Report or Load Capacity Data Sheets on File at: Pacific Scientific	these compone rision 1, Editic by o use the F DESIGN	ints support in 1974 Runn Comp	_, Adda UL L ponent	anda Wint	er '75 (Date)
Ve cartify that the statements made in this report are correct and that the first ASME Code for Nuclear Power Plant Components, Section III, Div code Case No. <u>1644-6</u> Data <u>9/17/81</u> Signed <u>Pacific Scientific</u> (NPT Certificate Holder) 1198 to Aur ASME Certificate of Authorization No. <u>1198</u> to ymbol expires <u>Aug. 4, 1984</u> (Date) CERTIFICATION O Design Information on File at <u>Pacific Scientific</u> tress Report or Load Capacity Data Sheets on File at: Pacific Scientific Filed Per NA 3256	these compone rision 1, Editic by o use the F DESIGN	ints support in 1974 Rana Comp	Adde	anda Wint	POTVE POTVE PIPIPIN DEC 7 OA APP
Ne cartify that the statements made in this report are correct and that the fit the ASME Code for Nuclear Power Plant Components, Section III, Divide Case No	these compone rision 1, Editic by o use the F DESIGN	ints support n 1974 RDM Cong Cong	Adde	anda Wint	POTVE POTVE PIPIPIN DEC 7 OA APP
Ve cartify that the statements made in this report are correct and that the ASME Code for Nuclear Power Plant Components, Section III, Divised Case No. 1644-6         Pacific Scientific         Pacific Scientific         Nor ASME Certificate of Authorization No. 1198         Aug. 4, 1984         Ymbol expires         (Date)         CERTIFICATION O         Design Information on File at         Pacific Scientific         Piled Per NA 3256         Pasign Specifications Certified by (1)         Leo E. Ay         Ing. No. 13533         Itress Analysis Report or Load Capacity Data Sheets Certified by (1)	these compone rision 1, Editic by o use the F DESIGN	ints support n 1974 RDM Cong Cong	Adda	anda Wint	POTVE POTVE PIPIPIN DEC 7 OA APP

Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in., (2) information in items 1, 2, 4c, 4g 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 (E00075) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

# FORM NF-1 (Back)

# CERTIFICATE OF SHOP INSPECTION

	ommission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of and employed by
	ave inspected the component supports described in this Data Report on
	y knowledge and belief the NPT Certificate Holder has constructed these component supports in accordance
with the ASME Code for Nuclear Por	wer Plant Components.
supports described in this Data Rep	he Inspector nor his employer makes any warranty, expressed or implied, concerning the componen port. Furthermore, neither the Inspector nor his employer shall be liable in any manner for an ge or a loss of any kind arising from or connected with this inspection.
	2 Commissions Ca 1445 WC 2856
Signed Carefe	Commissions <u>(Nat'l Bd., State, Prov., and Ne.)</u>
Province of have con that the parts referred to as data inspected by me and that to the best of ance with the ASME Code for Nuclea By signing this certificate neither the	CERTIFICATION OF FIELD INSPECTION ommission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or and employed by
	whind arising from or connected with this inspection.
Date	
Signed	(Nat'l Bd., State, Prov., and No.)

					IE	22-05	6
NIS-2 PNPP No. 9308 F		R'S REPOR					ENTS
1. Owner:	FIRST	ENERGY CORP.				Date 06/01/03	
1. Ounici		Road, Perry, Ohio	44081			Sheet <u>1</u> of	
						•	÷
2. Plant:	Perry Nucl	ear Power Plant (F	NPP)			Unit <u>1</u>	
	10 Center F	Road, Perry, Ohio 4	44081			01-017947-000, (Repair Org. P.O. N ORCER Mo. 2000	Vo., etc.)
3. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPF	2	Type Code Syml	bol Stamp <u>NR</u>
	<u>10 Ce</u>	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No	33
						Expiration Date	9-26-05
4. Identificatio	n of System: 1E22	2 High Pressure Co	ore Spray	System			
	ble Construction Co	NAME/SECT	ION/DIVISIO	N/CLASS	2 N.224	,19 <u>74</u> Editi 1, AND N-275	on
Tunci	19 <u>15</u> /			-212, 11-24	2, 11-224-	1, AND N-275	
	uction Code used fo	·				W75 tion Addenda	N/A Code Case(s)
	Code Section XI ap	-				tion Addenda	N/A Code Case(s)
	ble Edition of Section		•	odification,	or Replac	ements:	
	<u>N/A</u> 19 <u>N/A</u>	Code	e Case(s)				
	Responsibilities <u>Fl</u>		_				
	n of Components F	· · · · · · · · · · · · · · · · · · · ·					
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 Products	1E22 (1E22A)	86	N/A	1984	Replacement	Yes
			ł				
					<u> </u>		<u>†</u> {
				L			
r. Description	of Work: Replaced	Restricting Orifice	e 1E22-D0	005 with ne	ew orifice	Heat Number 8009	<u>901-1A</u>
B. Test Conduc	cted: Hydrostatic	- Pneumat	ic- 🔲 🛛 🛛	Nominal On	erating P	ressure- 🛛 Oth	er- 🗌
Pressure <u>30</u>		st Temperature 67		legrees F	-	Case(s) <u>N/A</u>	
	•			• • •		/	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) 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, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26 20 05
Date June 1st, 20 03 Signed
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by <u>Hartford Steam Boiler Ct.</u> of <u>Hartford, Conn.</u> have
inspected the repair, modification or replacement described in this report on Jule 6, 2003 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 Juste 6, 20 03 Signed Thrmos Hornes Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

----

٠

						1E32 -	104
NIS-2 PNPP No. 9308 F		R'S REPOR					ENTS
FINEF NO. 9300 F			<u></u>			- <u> </u>	1900-1741
1. Owner:		TENERGY CORP.				Date <u>5/10/03</u>	
	10 Center F	Road, Perry, Ohio	44081			Sheet <u>1</u> of	<u>1</u>
2. Plant:	Perry Nucl	ear Power Plant (F	PNPP)			Unit <u>One</u>	
	10 Center F	Road, Perry, Ohio 4	44081			WO 03-1260-000 (Repair Org. P.O. N	
3. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPP	•	Type Code Sym	ool Stemp <u>NR</u>
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>11</u>		Authorization No	. <u> </u>
						Expiration Date	9/26/2005
4. Identificatio	n of System: MSN	V Leakage Control				<u></u>	
5 (a) Applicat	ble Construction Co	ode: ASME Section				,1974 Editi	on
0. (0)/ ppilot.		NAME/SECT		N/CLASS ,	• •	Lon	
Winter	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	272, 1644-	<u>5, N413</u>		
(b) Constru	iction Code used for	or repairs, modifica	ations, or r	eplacemen		Winter 75 tion Addenda	n/a Code Case(s)
(c) ASME (	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	<u>1989</u> Edi	tion Addenda	n/a Code Case(s)
· · · · · · · ·	ble Edition of Secti <u>N/A                                    </u>		Repairs, M	odification,	or Replac	ements:	
	Responsibilities F	Code	e Case(s)	rating Com	nany PNF		
	n of Components F					<u> </u>	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code
Piping System	Puliman Power	1E32	<u>No.</u> 104	1E32	1985	Modification	Stamped yes
					·	······	
							<b>├</b> ────┤
ļ					· · ·		<b> </b>
			l			L	
7. Description identification	of Work: <u>Removed</u>	l supports per moc	lification E	CP-02-032	8. See rei	marks for support	
-	cted: Hydrostatic	- 🗌 Pneumat	ic- 🗌 🛛	Nominal Op	erating Pr	ressure- 🗌 Oth	er- 🔲
Pressure <u>n/</u>	•	st Temperature <u>n/</u>		legrees F	-	Case(s) <u>n/a</u>	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: Removed the following supports from piping that was previously abandoned: 1E32H270,

1E32H137,1E32H138,1E32H139,1E32H140,1E32H141,1E32H142,1E32H152,1E32H153,1E32H154,1E32H164

1E32H165,1E32H167,1E32H230,1E32H231,1E32H233,1E32H234,1E32H235,1E32H237,1E32H238

1E32H240,1E32H243,1E32H244,1E32H245,1E32H246,1E32H247,1E32H248,1E32H250,1E32H251.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370

BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

#### CERTIFICATE OF COMPLIANCE

I, <u>Michael J Tepsick</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires <u>26 Sept.</u> 20 <u>05</u> Date 10 May 20 03 Signed EENOC-PNPP Much 1 Zeruch OC
Date <u>10 May</u> , 20 <u>03</u> Signed <u>FENOC-PNPP</u> <u>Muth J June QC</u> (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
i, Thomas G Laps, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by HSB CT. of HARTEORD, CT. have
inspected the repair, modification or replacement described in this report on MAY 19, 2003 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 19, 20 03 Signed Thomas & Jopp Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

أناف المتحد فالمتحد						<u> </u>	-124
NIS-2		ER'S REPOR					ENTS
PNPP No. 9308 R	ev. 9/11/00						NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date <u>4/2/02</u>	<u> </u>
	10 Center	Road, Perry, Ohio	44081			Sheet <u>1</u> of	1
2. Plant:	Perry Nuc	lear Power Plant (I	PNPP)			Unit <u>1</u>	
	10 Center	Road, Perry, Ohio	44081			W.O. 01-8061 R (Repair Org. P.O. I	
3. Work Perfo		NERGY Nuclear Op			-	Type Code Sym	• -
	<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>81</u>		Authorization No	
						Expiration Date	9/26/2002
4. Identificatio	n of System: <u>1E5</u>	1 Reactor Core Isc	olation	·····			
5. (a) Applicat	le Construction C	ode: <u>ASME Sectio</u>	n III NC			,19 <u>74</u> Editi	on
Winter	19 75	NAME/SEC1			N242 N	275 N272 1644 6	1720
<u>vvii iter</u> N413.	19 <u>75</u>	Addenda Code	Case(s) <u>r</u>	1 <u>224, 1924  </u>	<u>, INZ42, IN</u>	<u>275, N272, 1644-5</u>	, 1720,
	ction Code used f	or repairs, modifica	ations. or r	eplacemen	 ts: 1974	Winter 75	 n/a
		• -	-		Ed	ition Addenda	Code Case(
(c) ASME (	Code Section XI a	oplicable for Inserv	ice Inspec	tion:	<u>1989</u> Ed	ition Addenda	n/a Code Case(
(d) Applical	ole Edition of Sect	ion XI Utilized for F	Repairs, M	odification,	or Replac	cements:	
19 <u>89</u> ,	<u>N/A</u> 19 <u>N/A</u>	Addenda <u>n/a</u>					
(e) Design	Responsibilities <u>F</u>	IRSTENERGY Nu	e Case(s) clear Opre	rating Com	pany PN	pp	
5. Identification	n of Components I	Repaired, Modified	, or Replac	cement Co	mponents		
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME Code
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Stamped
Piping System	Pullman Power	1E51	N/A	1E51	1980	Replacement	Yes
		<u> </u>	<u> </u>				<u> </u>
			ļ	ļ			ļ
			<u> </u>				
			1				
. Description	of Work: <u>Replace</u>	d bolted flange Val	ve 1E51F0	0011 with n	ew valve	Serial # 1-11683-0	1
<u>HT# 99105.</u>							
. Test Conduc	ted: Hydrostatic	Pneumat	tic- 🔲 🛛 🛛	Nominal Op	perating P	ressure- 🔀 🛛 Oth	er- 🔲
Pressure 28	. <u>8</u> psi     Te	st Temperature 94	4 (	legrees F	Code	Case(s) <u>N/A</u>	<del></del>

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks: None
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE I, David E. Lindquist, 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 26 Sept.       20 02         Date April 2.       20 02       Signed       FENOC-PNPP       Date Interpretent of repair organization)       Interpretent of repair organization)       QE         4/2/02       (name of repair organization)       Interpretent of repair organization)       Interpretent of representative)       QE
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of
and employed by <u>Factory Mutual Ins. Co.</u> of <u>Johnston, RI</u> have inspected the repair, modification or replacement described in this report on <u>4-3</u> , 20 <u>0 2</u> and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date <u>4-3</u> , 20 <u>0.2</u> Signed <u>Sector</u> Commissions <u>MBASL3 NT Otho Comm</u> (inspector) (National Board (include endorsements), and jurisdiction, and no.)

PNPP No. 9308		quired by the Prov					NQI-1741
			<u> </u>			Doto 8/40/02	
1. Owner: _	FIRS 10 Center I	Road, Perry, Ohio				Date <u>8/19/02</u> Sheet <u>1</u> of	
-							<u></u>
2. Plant: _	Репту Nuc	lear Power Plant (F	NPP)	_ <u></u>		Unit <u>1</u>	
-	10 Center I	Road, Perry, Ohio	44081			CR 02-0082 (Repair Org. P.O. N	lo., etc.)
3. Work Perfe	ormed By: <u>FIRSTE</u>			-		Type Code Symt	
	10 C	enter Road, Perry,	<u>Unio 4400</u>	<u>1</u>		Authorization No Expiration Date	
1 Identificati	on of System: <u>IE51</u>	Panatar Cara Isai	lation Cool	lina			
	ble Construction Co		n III NC			19 <u>74</u> Editi	on
<u>Summ</u>	er 19 <u>74</u>	Addenda Code	Case(s) <u>N</u>		· · · · · ·		
(b) Constr	uction Code used f	or repairs, modifica	ations, or r	eplacemen		Winter 75 Addenda	None Code Case
(c ) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	<u>1989</u>		None Code Case
19 <u>89</u>	able Edition of Sect	Addenda <u>Nor</u> Cod	e Case(s)				
	Responsibilities <u>F</u> on of Components I				-		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
	Bingham- Willamette	15210030	450	N/A	1978	Modification	Yes
Pump	1		1				ļ
Pump	<u> </u>		<u> </u>	<del> </del>	<u> </u>		
Pump							ļ
Pump							
	of Work: <u>See Ren</u>	narks.					
	of Work: <u>See Ren</u>	narks.					

1ES1-125

## NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741

0	Remarks.	The unner	design temperature	limit	for the	Reactor	Corel	Isolation	Cooling of	umn is chang	ed from
э.	nomaina.	The upper	<u>uesign temperature</u>	<u>1011111</u>		I Carlor	00101	SVIALIVIT		unip is unally	

140 F to 150 F. The engineering evaluation for this change is documented in NCC CR 02-00082.

Pump is asset number 1E51C0001.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370

BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE
I, <u>Michael J Tepsick</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 26 Sept. 20 05
Date <u>9 SEPT.</u> 2002 Signed <u>FENOC-PNPP</u> <u>Mul Jun</u> <u>sk. Quality Tac</u> (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G Laps, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by Factory Mutual Ins. Co of Johnston, RI have
inspected the repair, modification or replacement described in this report on SEPT9. 2001 and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection
Date <u>99</u> , 20 <u>02</u> Signed <u>herrous</u> <u>(inspector)</u> Commissions <u>NB 9330 "N" "I" "A" Ohio Comm.</u> (National Board (include endorsements), and jurisdiction, and no.)

REPORT NO. P0059-009

IESI-125 SHELET 2 OF 2

FORM NPY-	As Required by the Pra		
		المنحا ويتكر والمكري فاركدي	
Bingham tanulactured by <u>Portlan</u>	-Willamte Company d. Origon	Order No.	15210030
(Name	e & Address of Manufactu		
	Electric Company	Order No.	205-AG-534
<u>)206 ns2</u> rot <del>ba</del> rutselunei M	iame & Audress)		· · ·
uner Clevelar	nd Electric Illumina	ting Company	
ocation of Plant North Pr			
ump or Valve Identification	15210030	<u> </u>	
Reactor	Core Isolation Cool	ing Pump	r.' -
(Brid	description of pervice f	or which equipment was	· designed}
		Anthun Bantessa	
Drawing No	•	AFLAUF BETYSENY	
National Board No.	NB-450		
	1525	net 40-140 *F	•
-	(1284ure)	(Temperature)	••
he material," design, const	ruction, and workmanship	p complies with ASME (	Code Section III Class II
		• <b>•</b> • • • • •	
ditionA	iddeada Date <u>1974 Summ</u>		. <u>ha</u>
dition3974A	Iddeada Date <u>1974 Sterry</u>	er, Case No	
dition974, A 	Adeada Date <u>1974 Summ</u> Material Spec. No.	Manufacturer	NA, .Remarks
Mark No.			· ·
			· ·
Mark No.	Material Spec. No.		· ·
Mark No.	Material Spec. No.	Manufacturer	· ·
Mark No.	Material Spec. No.	Manufacturer	, Remarks
Mark No.	Material Spec. No.	Manufacturer	, Remarks
Mark No.	Material Spec. No.	Manufacturer	, Remarks
Mark No.	Material Spec. No.	Manufacturer	, Remarks
Mark No.	Material Spec. No.	Manufacturer	, Remarks
Mark No.	Material Spec. No.	Manufacturer	, Remarks
Mark No.	Material Spec. No.	Manufacturer	, Remarks
Mark No.	Material Spec. No.	Msoufacturer	, Remarks
Mark No.	Material Spec. No.	Manufacturer	Remarks
Mark No. 1 Castings 	Material Spec. No.	Manufacturer	Barrel Forsing Kozzle (Discharge) Cover (Ditve End) Branch Connections
Mark No. 1 Castings 	Material Spec. No.	Manufacturer Gulf Forge Gulf Forge Gulf Forge Gulf Forge Gulter Grinnell	Barrel Forsing Kozzle (Discharge) Cover (Ditve End) Branch Connections Suction Elbox
Mark No. 1 Castings 	Material Spec. No.	Kanufacturer Kanufacturer Gulf Forge Gulf Forge Gulf Forge Coulter Grinnell Grinnell	Barrel Forging Nozzle (Discharge) Cover (Dirive End) Branch Connections Suction Elbox Flange
Mark No. 1 Castings 	Material Spec. No.	Manufacturer Gulf Forge Gulf Forge Gulf Forge Gulf Forge Gulter Grinnell	Remarks Remarks Barrel Forging Nozzle (Discharge) Cover (Drive End) Branch Connections Suction Elbox Flange Seal Gland .
Mark No. 1 Castings 	Material Spec. No.	Kanufacturer Kanufacturer Gulf Forge Gulf Forge Gulf Forge Coulter Grinnell Grinnell	Barrel Forging Nozzle (Discharge) Cover (Dirive End) Branch Connections Suction Elbox Flange
Mark No. Castings Castings Forgings Forgings 76976-1 630763 615146 KCXC 80N-76 623215	Material Spec. No.	Kanufacturer Kanufacturer Gulf Forge Gulf Forge Gulf Forge Coulter Grinnell Grinnell Durametallic	Remarks Remarks Barrel Forging Nozzle (Discharge) Cover (Drive End) Branch Connections Suction Elbox Flange Seal Gland .

!

jof 2 PAGE

•

•

GE PO AG 534

•

Mark Ne.	haverial Spee No	Manufacturer	Remarks
.(c) Bolting			
8097477	· 5A-193-87-574	Coast Indus. Supply	Studs
57853249	SA-194-2H-574	Coast Indus. Supply	Nuts
•			· · · · · · · · · · · · · · · · · · ·
(d) Other Parts		··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	
XE-5383	SA-106-Gr.8-S74	Capitol	Pipe
·			
·	·	<u> </u>	<u> </u>
·			{································
	- <u> </u>	<b>!</b>	L
Hydrootatic test	2280 pei.		
			· .
			· · · · · ·
•	CERTIFICATIO	A VE DESIGN	
Design information on file at	Binghan-Wi	Illamette Company	· · · ·
Stress analysis report on file			•
		· · · · · · · · · · · · · · · · · · ·	
			1 / 13730
		0 (1) ProC Eng. State C	····
		0 (1) Prof. Eng. State () (1) Prof. Eng. State	····
Strass analysis report certifi	ed by <u>KA</u>		····
Strana analysis report cortifi [1] Signature not required. L	ed by <u>KA</u>	[1] Prol. Eng. State	····
Strasa analysis report cortifi (I) Signature not required. L We cartify that the statement	ed by <u>KA</u> ist name only. • • made in this report at	(1) Prof. Eng. State	
Strasa analysis report cortifi (I) Signature not required. L We cartify that the statement	ed by <u>KA</u> ist name only. s made in this report at Signed Bingham-b	(1) Prol. Eng. State	
Strass analysis report cortifi (1) Signature not required. L We cartify that the statement Data <u>April 5</u> 19	od by <u>KA</u> ist same only. • made is this report at Signed <u>Bingham-t</u> (Manufactu	(1) Prol. Eng. State re correct. (1) mette rer)	
Strass analysis report cortifi (1) Signature not required. L We cartify that the statement Data <u>April 5</u> 19	od by <u>KA</u> ist same only. • made is this report at Signed <u>Bingham-t</u> (Manufactu	(1) Prol. Eng. State	
Siress analysis report cortifi [1] Signature not required. L We cartify that the statement Data <u>April 5</u> .19	od by <u>KA</u> ist same only. • made is this report at Signed <u>Bingham-t</u> (Manufactu	(1) Prol. Eng. State re correct. (1) mette rer)	
Siress analysis report cortifi [1] Signature not required. L We cartify that the statement Data <u>April 5</u> .19	ed by <u>KA</u> ist name only. a made in this report at Signed <u>Bingham-</u> (Manulactu in. <u>N-1654</u> exp	(1) Prol. Eng. Slate (1) Prol. Eng. Slate (1) Connecte (1) Connecte	
Strass analysis report cortifi [1] Signature not required. L We cartify that the statement Date <u>April 5</u> 19 Cartificate of Authorization N	ed by <u>KA</u> ist same only. s made in this report at Signed <u>Bingham-b</u> (Mamiactu in. <u>M-1654</u> exp CERTIFICATE OF	(1) Prol. Eng. State	Rig. No
Siress analysis report cortifi [1] Signature not required. L We cartify that the statement Data <u>April 5</u> 19 	ed by <u>KA</u> ist name only. a made in this report at <u>Signed Bingham-i</u> (Manufactu (Manufactu (Manufactu CERTIFICATE OP g a valid commission in State of province of <u></u>	(1) Prol. Eng. State (1) Prol. Eng. State (1) Imette By Score (1) Mires 2-28-80 SHOP INSPECTION aued by the National Doard on Oregon and employ	Rig. Na
Strass analysis report cortifi (1) Signature not required. L We cartify that the statement Date <u>April 5</u> 19 <u>Cartificate of Authorization P</u> L the undersigned, holding Vessel Impreters and/or the of	ed by <u>KA</u> ist same only. s made in this report at Signed <u>B1 ngham-1</u> (Mamiactu (Mamiactu CERTIFICATE OF: g a valid commission is State of province of <u>Commerce</u>	(1) Prol. Eng. State (1) Prol. Eng. State (1) Inmette By Learny vers 2-28-30 SHOP INSPECTION sued by the National Board on Oregon and employ have inspected the ex-	Reg. No
Siress analysis report cortifi [1] Signature not required. L We certify that the statement Date <u>April 5</u> 19 	ed by <u>KA</u> ist same only. s made in this report at Signed <u>Bingham-1</u> (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Man	(1) Prof. Eng. State (1) Prof. Eng. State (1) Dirette By Learne (1) Shop InSpection swed by the National Doard on Oregon and employ bave inspected the est of and ethat bat be best of	Reg. No
Sirasa analysis report cortifi (1) Signature not required. L We cartify that the statement Data <u>Appil 5.19</u> Certificate of Authorization N L, the undersigned, holding Yessel inspectors and/or the in this that Heport on bellef, the Manufacturer has bellef, the Manufacturer has	ed by <u>KA</u> ist same only. s made in this report at Signed <u>Bingham-1</u> (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Manufactu (Man	(1) Prof. Eng. State (1) Prof. Eng. State (1) Insette By Score (1) Shop Inspected Dated on Oregon and employ have inspected the est of were is accordance with the ap	Reg. Na
Strass analysis report cortific [1] Signature not required. L We cortify that the statement Date <u>April 5.19</u> Certificate of Authorization N L, the undersigned, holding Yessel inspectors and/or the of m this Data Merpert on belief, the Shamfactorer has M ASME Code, Section III. By signing this certificate.	ed by	(1) Prof. Eng. State (1) Prof. Eng. State recorrect. (1) protte By Scorre wree 2-28-80 SHOP INSPECTION aued by the National Board o Oregon and employ bave inspected the event of this that is the best of wret is accordance with the apport mukes any o	Reg. No
Strass analysis report cortifi (1) Signature not required. L We cartify that the statement Data <u>Appril 5</u> 19 Certificate of Authorization N L, the undersigned, holding Yessel inspectors and/or the lin this that Heport on <u>belief</u> , the Manufacturer has belief, the Manufacturer has ad ASME Code, Section UL	ed by	(1) Prof. Eng. State (1) Prof. Eng. State (1) Dirette By Learn (rer) Mires 2-28-80 SHOP INSPECTION aued by the National Doord o <u>Oregon</u> and employ have inspected the ex- or his employer makes any v Data Report, Furthermore, i proreased injury or propert	Reg. No
Siress analysis report cortifi [1] Signature not required. L We cartify that the statement Data <u>Appil 5</u> 19 	ed by	(1) Prof. Eng. State (1) Prof. Eng. State (1) Dirette By Learn (rer) Mires 2-28-80 SHOP INSPECTION aued by the National Doord o <u>Oregon</u> and employ have inspected the ex- or his employer makes any v Data Report, Furthermore, i proreased injury or propert	Reg. No

-----

PAGE 2 of 2

\_ |

Vor

6.18 HJE

GE PO AG 534

3

PAGE

.

1E51-126

	NIS-2/	NR-1 OWNE						ENTS
Pł	NPP No. 9308 R	As rec ev. 9/11/00	uired by the Provis	sions of the				NQI-1741
1.	Owner:	FIRST	ENERGY CORP.				Date 03/14/03	
			oad, Perry, Ohio	44081			Sheet 1 of	2
								-
2.	Plant:	Perry Nucle	ear Power Plant (P	NPP)			Unit <u>1</u>	
	<del></del>	10 Center R	oad, Perry, Ohio 4	4081			02-002776-000, I	
							(Repair Org. F.O. N	0., 6(0.)
3.	Work Perfo	rmed By: <u>FIRSTEN</u>	ERGY Nuclear Ope	rating Com	pany PNPP		Type Code Symb	ol Stamp <u>NR</u>
		<u>10 Ce</u>	nter Road, Perry, (	<u> Ohio 4408</u>	<u>1</u>		Authorization No.	
							Expiration Date g	-26-05
4.	Identification	n of System: <u>1E51</u>	RX Core Isolating	Cooling S	System		······································	
5.	(a) Applicab	le Construction Co	de: ASME Sec III.	Subsectio	n NC Class	5-2	,19 <u>74</u> Editio	on
		40.75	NAME/SECTI		,	5 4700 J		
	<u>Winner</u>	19 <u>75</u> /	Addenda Code	Case(s) <u>N</u>	<u>-272, 1644</u> -	5, 1728, 1	<u>N-413</u>	
	(b) Constru	ction Code used for	or repairs modifica	tions or re	eplacement	s: 1974	W75	N/A
			•		•		tion Addenda	Code Case(s)
	(c) ASME (	Code Section XI ap	plicable for Inservi	ce Inspect	ion:	<u>1989</u> Edi	tion Addenda	N/A Code Case(s)
	(d) Applical	ble Edition of Section	on XI Utilized for R	epairs, Mo	dification, o	or Replac	ements:	
	19 <u>89 ,</u>	<u>N/A</u> 19 <u>N/A</u>						
	(e) Design	Responsibilities <u>FI</u>		e Case(s) clear Operation	ating Comp	any		
6.	Identification	n of Components F	epaired, Modified,	or Replac	ement Con	nponents		
	Name of	Name of	Manufacturer	Nat. Board	Other	Year	Repair, Replacement,	ASME Code
	Component	Manufacturer	Serial No.	No.	ID.	Built	or Modification	Stamped
	Piping System	Pullman Power Piping	1E51	N/A	N/A	1982	Replacement	Yes
ŀ								
L 7.	Description	of Work: <u>Replaced</u>	PSA-1 Snubber	Serial Num	nber 21936	with repl	acement PSA-1 S	nubber
<u>S</u>	erial Number	22903 on Support	<u>1E51-H0156.</u>					
e	Tost Condu	ntod: Undrooteti-				orolina D		
0.	Pressure N	cted: Hydrostatic	-  Pneumat st Temperature <u>N</u>		vominai Op legrees F	-	ressure- 🔲 Othe Case(s) <u>N/A</u>	er- 🗌
	i lessure II	<u></u> hai te:	s remperature <u>N</u>		regiees r	Code	Casels) INIM	

FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.         te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorde the front of this form.         CERTIFICATE OF COMPLIANCE         I, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26 20 05	DNAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.  te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorder the front of this form.  CERTIFICATE OF COMPLIANCE  I, Lester J, Erbacher, 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 No3 to use the "NR stamp expises 9-26, 20 05 Date March 14, 20 03	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back PP No. 9308 Rev. 9/11/00NQINQI-	
		Remarks:	
FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.         te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorder the front of this form.         CERTIFICATE OF COMPLIANCE         1, Lester J. Erbacher, 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 TNR "lules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05	FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.         te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded the front of this form.         CERTIFICATE OF COMPLIANCE         1, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stame expires 9-26, 20 05		
FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.         ite: 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 recorder the front of this form.         CERTIFICATE OF COMPLIANCE         1, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05	FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.         ite: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded the front of this form.         CERTIFICATE OF COMPLIANCE         1, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stame expires 9-26, 20 05		
FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.         ite:       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 recorder the front of this form.         CERTIFICATE OF COMPLIANCE         1, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05	te: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorder the front of this form. CERTIFICATE OF COMPLIANCE I, Lester J. Erbacher, 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 No3		
FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.         ite: 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 recorder the front of this form.         CERTIFICATE OF COMPLIANCE         1, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05	FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.         ite: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded the front of this form.         CERTIFICATE OF COMPLIANCE         1, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stame expires 9-26, 20 05		
drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorde the front of this form.         CERTIFICATE OF COMPLIANCE         I, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05	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 recorder the front of this form.         CERTIFICATE OF COMPLIANCE         I, Lester J, Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05		<u> </u>
report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorder the front of this form.         CERTIFICATE OF COMPLIANCE         I, Lester J, Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stame expires 9-26, 20 05	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 recorder the front of this form.         CERTIFICATE OF COMPLIANCE         I, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05		
drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorde the front of this form.         CERTIFICATE OF COMPLIANCE         I, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05	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 recorder the front of this form.         CERTIFICATE OF COMPLIANCE         I, Lester J, Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05		
drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorde the front of this form. CERTIFICATE OF COMPLIANCE I, Lester J, Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05 Date March 14, 20 03 Signed FENOC-PNPP (name of repair organization) (gutforized representative) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, Thomas G, Laps, holding a valid commission issued by The National Board of Boiler an Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of have inspected the repair, modification or replacement described in this report on <u>APRIL 5</u> 20 cl and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance witi 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 (National Board (include endorsement (Inspector) (National Board (include endorsement (National Board (include endorsement (National Board (include endorsement) (National Board (include endorsement) (National Board (include endorsement)	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 recorder the front of this form.         CERTIFICATE OF COMPLIANCE         I, Lester J, Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05	ter Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or	
the front of this form.  CERTIFICATE OF COMPLIANCE  I, Lester J. Erbacher, 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 No31 to use the "NR stame expires 9-2620 05	the front of this form.  CERTIFICATE OF COMPLIANCE  I, Lester J, Erbacher, 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 No3 to use the "NR stame expires 9-26 20 05 Date March 14, 20 03SignedFENOC-PNPP(guttorized representative) QE	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of th	
CERTIFICATE OF COMPLIANCE         I, Lester J, Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05	CERTIFICATE OF COMPLIANCE         I, Lester J, Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05		led
I, Lester J, Erbacher, 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 No33to use the "NR stame expires 9-2620 050E0E0E0E	I, Lester J, Erbacher, 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 No33to use the "NR stamp expires 9-2620 050E0E0E0E	the front of this form.	
I, Lester J, Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No33	I. Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33 to use the "NR stamp expires 9-2620 050E         Date March 14, 20 03 SignedFENOC-PNPP(uthorized representative)       OE         (utile)       OE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler an Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of		
correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME         Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33	correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME         Code and to the National Board Inspection Code "NR" rules.         National Board Certificate of Authorization No33		
National Board Certificate of Authorization No.       33       to use the "NR stame expires 9-26       20 05         Date March 14, 20 03       Signed       FENOC-PNPP       OE       OE         (authorized representative)       OE       OE       OE       OE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         1, Thomas G. Laps	National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26, 20 05 Date March 14, 20 03 Signed FENOC-PNPP (authorized representative) QE (itile) (tile) (tile) QE (authorized representative) (tile) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, Thomas G. Laps ,holding a valid commission issued by The National Board of Boiler an Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by Factory Mutual Ins. Co. of Johnston, RI have inspected the repair, modification or replacement described in this report on APRIL 5 20 23 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 (Inspector) (National Board (include endorsements) (National Board (include endorsements)	correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASM	ю ЛЕ
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, <u>Thomas G. Laps</u>	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, <u>Thomas G. Laps</u> , holding a valid commission issued by The National Board of Boiler an Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of       OHIO         and employed by <u>Factory Mutual Ins. Co.</u> of <u>Johnston, RI</u> have inspected the repair, modification or replacement described in this report on <u>APRIL 5</u> 20 <u>C</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.         By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> , 20 <u>03</u> Signed	National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26 20.05	
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, <u>Thomas G. Laps</u>	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, <u>Thomas G. Laps</u> , holding a valid commission issued by The National Board of Boiler an Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of       OHIO         and employed by <u>Factory Mutual Ins. Co.</u> of <u>Johnston, RI</u> have inspected the repair, modification or replacement described in this report on <u>APRIL 5</u> 20 <u>C</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.         By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> , 20 <u>03</u> Signed	Date March 14, 20 03_ Signed FENOC-PNPP	
I, <u>Thomas G. Laps</u> ,holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>Factory Mutual Ins. Co.</u> of <u>Johnston, RI</u> have inspected the repair, modification or replacement described in this report on <u>APRIL 5</u> 20 <u>C3</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection (Inspector) (National Board (include endorsement))	I, <u>Thomas G. Laps</u> ,holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>Factory Mutual Ins. Co.</u> of <u>Johnston, RI</u> have inspected the repair, modification or replacement described in this report on <u>APRIL 5</u> 20 <u>cb</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> 20 <u>03</u> Signed		
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO and employed by <u>Factory Mutual Ins. Co</u> of <u>Johnston, RI</u> have inspected the repair, modification or replacement described in this report on <u>APRIL 5</u> 20 <u>C</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection ( <i>Inspector</i> ) ( <i>National Board (include endorsements)</i> )	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>Factory Mutual Ins. Co.</u> of <u>Johnston, RI</u> have inspected the repair, modification or replacement described in this report on <u>APRIL 5</u> 20 $\textcircled{O}$ and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> 20 <u>03</u> Signed <u>Thomas A</u> (inspector) Commissions <u>NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements)</u>	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
and employed by <u>Factory Mutual Ins. Co.</u> of <u>Johnston, RI</u> have inspected the repair, modification or replacement described in this report on <u>APRIL 5</u> 20 <u>C3</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> 20 <u>03</u> Signed <u>Horned</u> Commissions <u>NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements</u> )	and employed by Factory Mutual Ins. Co of Johnston, RI have Inspected the repair, modification or replacement described in this report on APRIL 5 20 C3 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 APRIL 5 20 03	I, Thomas G. Laps,holding a valid commission issued by The National Board of Boiler	an
Inspected the repair, modification or replacement described in this report on $\underline{APRil5202}$ 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 $\underline{APRil52003}$ Signed $\underline{Thorses}$ $\underline{APRil52003}$ Commissions $\underline{NB9330^{\circ}N^{\circ}}$ "I" "A" Ohio Comm. (National Board (include endorsements)	Inspected the repair, modification or replacement described in this report on $\underline{APRil520}$ 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 $\underline{APRil5}$ 20 03 Signed $\underline{Montod}$ $\underline{APRil5}$ Commissions $\underline{NB9330}$ "N" "I" "A" Ohio Comm. (inspector)	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO	
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>AFRIL 5</u> , 20 <u>03</u> Signed <u>hormed</u> Commissions <u>NB 9330 "N" "I" "A" Ohio Comm.</u> (National Board (include endorsements)	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> 20 <u>03</u> Signed <u>formula</u> Commissions <u>NB 9330 "N" "I" "A" Ohio Comm. (inspector)</u>	and employed by Factory Mutual Ins. Co. of Johnston, RI ha	ve
Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> 20 03 Signed <u>Thomas A</u> (inspector) (National Board (include endorsements))	Section XI of the ASME Code and the National Board Inspection Code "NR" rules. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> , 20 <u>03</u> Signed <u>Thomas</u> A Commissions <u>NB 9330 "N" "I" "A" Ohio Comm. (inspector)</u>	inspected the repair, modification or replacement described in this report on APRIL 5 20 03_ and state that to	,
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection. Date <u>APRIL 5</u> 20 03 Signed <u>Thomas 4</u> Commissions <u>NB 9330 "N" "I" "A" Ohio Comm.</u> ( <i>inspector</i> )	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> 20 03 Signed <u>Thomas 4</u> Commissions <u>NB 9330 "N" "I" "A" Ohio Comm. (Inspector)</u>	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with	ith
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> , 20 03 Signed <u>Thomas A</u> (inspector) (National Board (include endorsements))	concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> , 20 <u>03</u> Signed <u>Thomas 4</u> (National Board (include endorsements)	Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> , 20 03 Signed <u>Horness A</u> Commissions <u>NB 9330 "N" "I" "A" Ohio Comm.</u> ( <i>inspector</i> ) ( <i>National Board (include endorsements</i> )	any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection Date <u>APRIL 5</u> 20 03 Signed <u>Hormus</u> Commissions <u>NB 9330 "N" "I" "A" Ohio Comm.</u> (inspector) (National Board (include endorsements)	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,	
Date APRIL 5 20 03 Signed A Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements)	Date APRILS 20 03 Signed Thomas & Captor Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements)	concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable	in
(inspector) (inspector) (inspector)	(inspector) () (National Board (include endorsements)	any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspect	ion
anu junsaiction, and no.)	anu junsuicuon, and no.)	(inspector) (indude endorsemen	īts),
		. anu junsaiction, anu ho.j	

.

· . ••

		by the Provisions	DERS' DATA RE				( <b>)</b> "
1. Manufactured b	Pacific	Kin-Tech D. Scientific 13	1V15100 46 S. State Co Plame and address of	llege Blvd.	Anahe	im, CA 9280	່
2. Manufacturer fo	, Power Pi	ping Co. 829	Beaver Ave. Pi	ttsburgh, Pi	A 15233		
		Unknown	IName and address of	Burchaser er ewi	ver)		
<ol> <li>Location of Inst.</li> <li>Identification</li> </ol>	ellation						
(a) Component	(b) Canadian	(c) Acolicable	(d) Stress Report	(e) Type of	(1)	(g)	<b>(h)</b>
Support I. D. No.	Registration No.	Drawings with Last Rev. & Date	or Load Capa- city Data Sheet	Component Support	Class	Nat'l Board No.	Year Built
(11_22896	NONE 1801		R1351 Rev. A	Linear	1	NONE	1982
(2) thru (1) 22917			•				
(4)							
(5)							
(6)		- <u></u>	<u> </u>				
(8)							
(9)(9)(0)		·					
5. Remarks:							
of the ASME Code	for Nuclear Powe	e in this report are c ar Plant Components,	KATE OF COMPL orrect and that these of Section III, Division	components supp		enda <u>Winte</u>	construction 27 75 Dates
of the ASME Code	for Nuclear Powe	te in this report are c ar Plant Components d <u>Pacific Sc</u> (NPT Cert	orrect and that these is, Section III, Division	components supp 1. Edition <u>197</u> _ by <u><u></u></u>	alie	enda <u>Winte</u>	<u>er '75</u>
of the ASME Code t Code Case No Date/2-/3	lor Nuclear Power 1644-6 -82 Signe	e in this report are c ar Plant Components, d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u>	orrect and that these is , Section III, Division :ientific	components supp 1. Edition <u>197</u> _ by <u><u>R</u>D</u>		kinda <u>Winte</u> A Nali	<u>er '75</u>
of the ASME Code ( Code Case No Data/2-/3 Our ASME Certifica	for Nuclear Power 1644-6 -82 Signe alle of Authorizat Allg. 4,	e in this report are c ar Plant Components, d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u>	orrect and that these is , Section III, Division :ientific incate Holders	components supp 1. Edition <u>197</u> _ by <u><u>R</u>D</u>	4 2/1/ NPT"	kinda <u>Winte</u> A Nali	<u>er '75</u>
of the ASME Code ( Code Case No Data/2-/3 Our ASME Certifica	lor Nuclear Power 1644-6 -82 Signe	e in this report are c ar Plant Components, d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u>	orrect and that these is , Section III, Division :ientific incate Holders	components supp 1. Edition <u>197</u> _ by <u><u>R</u>D</u>	4 2/1/ NPT"	kinda <u>Winte</u> A Nali	<u>er '75</u>
of the ASME Code ( Code Case No Data/2-/3 Our ASME Certifica	for Nuclear Power 1644-6 -82 Signe alle of Authorizat Allg. 4,	e in this report are c ar Plant Components. d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u> 1984	orrect and that these ( , Section III, Division :ientific :Neate Holders 	components supp 1, Edition <u>197</u> _ by <u>400</u> the	4 2/1/ NPT"	kinda <u>Winte</u> A Nali	<u>er '75</u>
of the ASME Code ( Code Case No Date/2-/3 Our ASME Certifica	tor Nuclear Pown 1644-6 -82 Signe Site of Authorizat Aug. 4, (Date)	e in this report are c ar Plant Components. d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u> 1984 CERT	Orrect and that these ( , Section III, Division i <u>ientific</u> ilicate Holders 	components supp 1, Edition <u>197</u> _ by <u>400</u> the	4 2/1/ NPT"	kinda <u>Winte</u> A Nali	<u>er '75</u>
of the ASME Code ( Code Case No Date/2-/3 Our ASME Certifics Symbol expires	tor Nuclear Pown 1644-6 -82 Signe Signe Signe Aug. 4, (Date)	e in this report are c ar Plant Components. d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u> 1984	Orrect and that these ( , Section III, Division i <u>ientific</u> ilicate Holders 	components supp 1, Edition <u>197</u> _ by <u>400</u> the	4 2/1/ NPT"	kinda <u>Winte</u> A Nali	<u>er '75</u>
bi the ASME Code i Code Case No. Date <u>/2-/3</u> Our ASME Certifica Symbol expires Symbol expires Detign Information Stress Report or Lo	tor Nuclear Pown 1644-6 -82 Signe site of Authorizat Aug. 4, (Date) on File at <u>P</u> and Capacity Data	e in this report are c ar Plant Components. d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u> 1984 CERT acific Scienti a Sheets on File at	Orrect and that these ( , Section III, Division i <u>ientific</u> ilicate Holders 	components supp 1, Edition <u>197</u> _ by <u>400</u> the	4 2/1/ NPT"	kinda <u>Winte</u> A Nali	<u>er '75</u>
bi the ASME Code t Code Case No. Date <u>/2-/3</u> Dur ASME Certifics Symbol expires Design Information Stress Report or Lo Pacific Filed E	tor Nuclear Power 1644-6 -82 Signe alle of Authorizat Aug. 4, (Date) on File as <u>Print</u> and Capacity Dath Socientific Per ICA 325	e in this report are c ar Plant Components, d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u> 1984 CERT acific Scienti a Sheets on File at C	orrect and that these ( , Section III, Division :ientific :Nexte Holders 	components supp 1, Edition <u>197</u> by <u>400</u> the <u>500</u> ESIGN	4	kinds <u>Winte</u> 2 <u>Na</u> 7) 1	<u>er '75</u>
ol the ASME Code to Code Case No. Date <u>/2-/3</u> Dur ASME Certifica Symbol expires Design Information Stress Report or Lo <u>Pacific</u> Filed F Design Specification	tor Nuclear Pown 1644-6 -82 Signe alte of Authorizat Aug. 4, (Date) on File at <u>Pi</u> and Capacity Data Scientific Per ICA 3255 in Cartified by 1	e in this report are c ar Plant Components, d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u> 1984 CERT acific Scienti a Sheets on File at C	Orrect and that these ( , Section III, Division i <u>ientific</u> ilicate Holders 	components supp 1, Edition <u>197</u> by <u>400</u> the <u>500</u> ESIGN	4	Anda <u>Winte</u> 2 Nav 7) 12	<u>+ '75</u>
ol the ASME Code to Code Case No. Date <u>/2-/3</u> Dur ASME Certifica Symbol expires Design Information Stress Report or Lo <u>Pacific</u> Filed F Design Specification	tor Nuclear Pown 1644-6 -82 Signe alte of Authorizat Aug. 4, (Date) on File at <u>Pi</u> and Capacity Data Scientific Per ICA 3255 in Cartified by 1	e in this report are c ar Plant Components, d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u> 1984 CERT acific Scienti a Sheets on File at C	orrect and that these ( , Section III, Division :ientific :Nexte Holders 	components supp 1, Edition <u>197</u> by <u>400</u> the <u>500</u> ESIGN	4	kinds <u>Winte</u> 2 <u>Na</u> 7) 1	<u>+ '75</u>
ol the ASME Code to Code Case No. Date /2-/3 Dur ASME Certification Symbol expires Design Information Stress Report or Lo Pacific Filed F Design Specification Reg. No. 1353 Stress Analysis Rep	tor Nuclear Pown 1644-6 -82 Signe alle of Authorizat Aug. 4, (Date) on File as Pro- bad Capacity Data Scientific Per ICA 3255 ns Cartilled by 1 33-	e in this report are c ar Plant Components. d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u> <u>1984</u> <u>CERT</u> acific Scienti a Sheets on File at C G 11 Leo E.	orrect and that these ( Section III, Division ientific incate Holders (IFICATION OF DE ific Ay Infled by (1) Let	components supp 1, Edition <u>197</u> by <u>400</u> the <u>500</u> ESIGN	4	Anda Winter	<u>+ '75</u>
ol the ASME Code to Code Case No. Date /2-/3 Dur ASME Certification Symbol expires Design Information Stress Report or Lo Pacific Filed F Design Specification Reg. No. 1353 Stress Analysis Rep	tor Nuclear Pown 1644-6 -82 Signe alle of Authorizat Aug. 4, (Date) on File as Pro- bad Capacity Data Scientific Per ICA 3255 ns Cartilled by 1 33-	e in this report are c ar Plant Components. d <u>Pacific Sc</u> (NPT Cert tion No. <u>1198</u> 1984  CERT acific Scienti a Sheets on File at C G 11Leo E.	orrect and that these ( Section III, Division ientific incate Holders (IFICATION OF DE ific Ay Infled by (1) Let	components supp 1. Edition <u>197</u> by <u>900</u> the <u>900</u> ESIGN PE State	4	Aug 2 1	
of the ASME Code t Code Case No. Date /2-/3 Our ASME Certificat Symbol expires Design Information Stress Report or Lo Pacific Filed F Design Specification Reg. No. 1353 Stress Analysis Rep PE State Calif	tor Nuclear Pown 1644-6 -82 Signe alle of Authorizat Aug. 4, (Date) on File as Pro- bad Capacity Data Scientific Per ICA 3255 ns Carulied by 1 33- ort or Load Capa Eornia	e in this report are c ar Plant Components. d <u>Pacific Sc</u> (MPT Cert tion No. <u>1198</u> <u>1984</u> <u>CERT</u> acific Scienti a Sheets on File at C G 11 Leo E. scity Data Sheets Cer	orrect and that these ( Section III, Division ientific incate Holders (IFICATION OF DE ific Ay Infled by (1) Let	components supp 1. Edition <u>197</u> by <u>900</u> the <u>900</u> ESIGN PE State	4	Ands Winter A Aug 2 1 Aug 2	H 75
of the ASME Code 1 Code Case No. Data <u>12-13</u> Our ASME Certulica Symbol expires Design Information Stress Report or Lo <u>Pacific</u> Filed F Design Specification Reg. No. <u>1353</u> Stress Analysis Rep PE State <u>Califi</u> (11 Cist name only, "Supplemental sh	tor Nuclear Pown 1644-6 -82 Signe Aug. 4, (Dete) on File as <u>Print</u> ad Capacity Data Capacity Data Scientified by 1 33 	e in this report are c ar Plant Components. d <u>Pacific Sc</u> INFT Cert inon No. <u>1198</u> 1984 CERT acific Scienti a Sheets on File at C G II Leo E. acity Data Sheets Cer Reg. No auired.	orrect and that these ( Section III, Division ientific incate Holders (IFICATION OF DE ific Ay Infled by (1) Let	components supp 1. Edition <u>197</u> by <u>900</u> the <u>197</u> ESIGN ESIGN DE. Ay provided (1) size	4	Ands Winter Ands Winter And And And And Aug 2 : Aug	1 Heres 1, 2
ol the ASME Code to Code Case No. Date <u>/2-/3</u> Dur ASME Certifica Symbol expires Design Information Stress Report or Lo <u>Pacific</u> Filed F Design Specification Reg. No. <u>1353</u> Stress Analysis Rep PE State <u>Calif</u> (11 List name only, "Supplemental sh 4c, 4g on this Data	tor Nuclear Pown 1644-6 -82 Signe Aug. 4, (Dete) on File as <u>Print</u> ad Capacity Data Capacity Data Scientified by 1 33 	e in this report are c ar Plant Components. d <u>Pacific Sc</u> INFT Cert inon No. <u>1198</u> 1984 CERT acific Scienti a Sheets on File at C G II Leo E. acity Data Sheets Cer Reg. No auired.	arrect and that these ( Section III, Division ilentific incate Holders to use fificATION OF Di lific Ay tulied by (1) Lec L3533	components supp. 1. Edition <u>197</u> by <u>900</u> the <u>197</u> ESIGN ESIGN DE. Ay provided (1) sizes numbered and	4	Ands Winter Rends Winter Rends Control Name I Control AUG 2 : Stria AUG 2 : Stria Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Contrel Co	1 Heres 1, 2

#### FORM NF-1 (Back)

#### **CERTIFICATE OF SHOP INSPECTION**

19 32 and state that is the best of my knowledge and belief the NPT Certificate Holder has constructed these component supports in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this cartificate, 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 12-14-82 W.N. Bucker WC 23791 Commissions \_

#### CERTIFICATION OF FIELD INSPECTION

have compared the statements in this 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 NPT Certificate Holder has constructed these component supports in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this cartificate neither the Inspector nor his employer makes any warranty, supressed 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 ansing from or connected with this inspection.

Date\_\_\_\_\_

Signed

£.

Commissions \_\_\_\_



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



80060

0:391

2

					/	E51-127	
NIS-2	/NR-1 OWNE	R'S REPOR					ENTS
PNPP No. 9308 R							NQI-1741
1. Owner:	FIRS	ENERGY CORP.				Date 05/27/03	
	10 Center F	Road, Perry, Ohio	44081			Sheet <u>1</u> of	2
2. Plant:		ear Power Plant (F				Unit <u>1</u>	
	<u> </u>	Road, Perry, Ohio 4	4081			03-004898-000, (Repair Org. P.O. N DEDEE NO: 20	lo., etc.)
3. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Con	pany PNPP		Type Code Symt	ool Stamp <u>NR</u>
	<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No	33
						Expiration Date	9-26-05
4. Identification	n of System: <u>1E5</u>	I Reactor Core Iso	lation Coo	ling System	l		
5. (a) Applicat	le Construction Co	xde: <u>ASME Sec III</u>	Subsectio	n NB/NF-C	<u> </u>	19 <u>74</u> Editi	on
Winter		NAME/SECT	ION/DIVISIO			and 1728	
						·	
(b) Constru	iction Code used fo	or repairs, modifica	ations, or r	eplacement		tion Addenda	N/A Code Case(s)
(c) ASME (	Code Section XI ap	plicable for Inservi	ice Inspec	ion:	<u>1989</u> Edi	tion Addenda	N/A Code Case(s)
(d) Applical	ble Edition of Secti	on XI Utilized for R	tepairs, Mo	odification, o	or Replac	ements:	
19 <u>89</u> ,	<u>N/A</u> 19 <u>N/A</u>	Addenda <u>N/A</u> Code	e Case(s)				
	Responsibilities <u>F</u>						
6. Identification	n of Components F	Repaired, Modified,	, or Replac	ement Con	ponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping System	Pullman Power Products	1E51	N/A	N/A	1985	Replacement	Yes
	······································						
<b> </b>			i			<u> </u>	<u>  </u>
	<u> </u>						<u>├</u> ┨
L			L	l		<u> </u>	
	of Work: <u>Replaced</u> erial Number 1103		Snubber S	erial Numb	er 14301	on piping support	1E51-H0110
	······································						· -
B. Test Conduc	cted: Hydrostatic	- 🗌 Pneumat	ic- 🗌 🛛 🛚	Iominal Op	erating Pi	ressure- 🗌 Oth	er- 🗌
Pressure <u>N</u>	<u>'A</u> psi Te	st Temperature <u>N</u>	<u>/A</u> c	legrees F	Code	Case(s) <u>N/A</u>	

· ,

<b>9</b> . 1	Remarks:
	NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING FECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
1-4	. Attach all applicable Manufacturada Data Panada, Supplemental abacta auch as lista, skatabas, an
οι	e: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of th
	report is included on each sheet, and (3) each sheet is numbered and the number of sheets is record
	the front of this form.
F	
	CERTIFICATE OF COMPLIANCE
1	I, Lester J. Erbacher, certify that to the best of my knowledge and belief the statements made in this report ar
	correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASM Code and to the National Board Inspection Code "NR" rules.
1	
	•
	National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26 , 20 05
	National Board Certificate of Authorization No.       33       to use the "NR stamp expires 9-26       20 05         Date May 27       20 03       Signed       FENOC-PNPP       QE         (name of repair organization)       (authorized representative)       (title)
	National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26, 20 05 Date May 27, 20 03 Signed FENOC-PNPP
	National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26, 20 05 Date May 27, 20 03 Signed FENOC-PNPP
	National Board Certificate of Authorization No.       33       to use the "NR stamp expires 9-26       20 05         Date May 27       20 03       Signed       FENOC-PNPP       QE         (name of repair organization)       (authorized representative)       (title)
	National Board Certificate of Authorization No.       33       to use the "NR stamp expires 9-26       20 05         Date May 27       20 03       Signed       FENOC-PNPP       QE         (name of repair organization)       (authorized representative)       (title)         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	National Board Certificate of Authorization No33to use the "NR stamp expires 9-26, 20 05 Date May 27, 20 03SignedFENOC-PNPPQEQEQEQE(ittle) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, Thomas G. Laps,holding a valid commission issued by The National Board of Boiler a Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	National Board Certificate of Authorization No.       33       to use the "NR stamp expires 9.26       20 05         Date May 27       20 03       Signed       FENOC-PNPP       Image: Certificate of repair organization       QE         CERTIFICATE OF INSPECTION/INSERVICE INSPECTION         I, Thomas G. Laps
	National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9.26, 20 05 Date May 27, 20 03 Signed FENOC-PNPP (authorized representative) QE (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 a Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by Hartford Steam Boiler Ct. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on Junie 6, 20 03 and state that to
	National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05 Date May 27, 20 03 SignedFENOC-PNPPQEQEQE(authorized representative) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, Thomas G. Laps,holding a valid commission issued by The National Board of Boiler a Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires 9.26, 20 05 Date May 27, 20 03 Signed <u>FENOC-PNPP</u> (authorized representative) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, <u>Thomas G. Laps</u> , holding a valid commission issued by The National Board of Boiler a Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>Hartford Steam Boiler Ct.</u> of <u>Hartford, Conn.</u> have inspected the repair, modification or replacement described in this report on <u>Inste 6</u> , 20 03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
	National Board Certificate of Authorization No33to use the "NR stamp expires 9.26, 20 05 Date May 27, 20 03SignedFENOC-PNPP
	National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires 9.26, 20 05 Date May 27, 20 03 Signed <u>FENOC-PNPP</u> (authorized representative) (UUe) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, <u>Thomas G. Laps</u> ,holding a valid commission issued by The National Board of Boiler a Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>Hartford Steam Boiler Ct.</u> of <u>Hartford, Conn.</u> have inspected the repair, modification or replacement described in this report on June 6, 20 03 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance wi 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
	National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9.26, 20 05 Date May 27, 20 03 Signed FENOC-PNPP (authorized representative) QE (title) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, Thomas G. Laps ,holding a valid commission issued by The National Board of Boiler a Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by <u>Hartford Steam Boiler Ct.</u> of <u>Hartford, Conn.</u> have inspected the repair, modification or replacement described in this report on June 6, 20 03 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,

REPORT	NO	P0059-009
	<b>110</b> .	20039-009

					IESI	1-127	
, FOR	M NF-1 NPT CI As Required	ERTIFICATE HOLI	DERS' DATA REP of the ASME Code	ORT FOR CO E Rules, Sectio	on III, Di	INT SUPPORT	•
Manufacture	- Pacifi	c Šcientific	CO. 1346 S.	. State Ci	ollege	Blvd. Ar	
. Manufacture	Power	Piping Co. 8	29 Beaver Av	re Pittsby	irg, I	PA 15233	92603
		• .	Nome and address of (	purchaser or own	er)	•	
I. Location of I. Identificatio				nown			
(a)	- (b)	ici	(d)	(e) (	<b>(7)</b>	(g i	(h)
Component Support	Reguliration	Applicable Drawings with	Stress Report or Load Capa-	Type of Component	-	Na17 Board	<b>.</b>
1. D. No. (1) 10968-	No. None 1	Lass Rev. & Date 1801103-07-H I	city Data Sheet	Support Linear	Ciss 1	None	Year Built 1981
$\frac{10966}{121}$				DINCOL		NONE	
(3)							
(4) (5)			•				
					•		
(7)(8)		·				MAR 2	1983
						TENT	
				······		0 01	
. nemerss				· · ·		a 499	
T the ASME C	ode for Nuclear Fam _ 1644-6	se in the report are co as Plant Components,	Section III; Division 1,	mponent suppo			
of the ASME C Code Case No.	ode for Nuclear Fam _ 1644-6	to m the report are co as Franc Components, Pacific So (KiPT Center	inect and that these co Section III; Orvision I, CIENTIEIC licate Holders	mponenti suopo Edition	14: *** 10:00 l	underheister March	
It the ASME C	ode for Nuclear Faw <u>1644-6</u> <u>12/81</u> Signed Inficate of Authorization	to m the report are co as frant Components, Dacific S (Net Center thon No <u>N-11</u> )	intect and that these co Section III; Ovvision I, <u>CIENTIEIC</u> licate Holders	. Edition 19		supporte_	
IT THE ASKE CLOOP CASE NO.	ode for Nuclear Faw <u>1644-6</u> <u>12/81</u> Signed Inficate of Authonese 4 August	te m ihn report are co er Frant Components. <u>Pacific S</u> (Net Certin thon No. <u>N-11</u> 1981.É Let	section III; Orvision I, <u>cientific</u> licate Holders 98 <u></u> to use th	Edition_19		supporte_	
I the ASIAE Co Code Case No Data Data Data Data Data Data No ASIAE Cart VMDOI expires	ode for Nuclear For <u>1644-6</u> <u>12/81</u> Signed Infrate of Authories August IControl	te m ihn report are co er Frant Components. <u>Pacific S</u> (Net Certin thon No. <u>N-11</u> 1981.É Let	FICATION OF DES	Editon 19 Editon 19 - Editon 19 Editon to 9 SIGN	14. Ado 2001 nept 1 1/15/8	kinds, _Kinte WAA Supports 1	
I the ASKE Co Code Case No Lose Lose Lose Lose Vmbol expires Vmbol expires Vmbol expires Vmbol expires Vmbol expires Vmbol expires Vmbol expires	tion on file at	te m the report are co at Flant Components. Pacific So (NIFT Canil 1000 No. N-11 1981. E let CERTI Pacific Scien Sheen on Fole at 10 COmpany	FICATION OF DES	Editon 19 Editon 19 Compo sizion to 9 SIGN	14. Ado 2001 nept 1 1/15/8	kinds, _Kinte WAA Supports 1	
A the ASKE Co Code Care No Code Care No Code Care No Code Care No No Automotion Astronomy Automotion Astronomy Antipological and Pacific Led	tion on File at	te m the report are co at Flant Components. Pacific Si (KiPT Cartific 1981	Section III; Orvision I, <u>cientific</u> <u>icientific</u> <u>icientific</u> to use the ter of exten FICATION OF DES <u>ntific Compan</u>	Editon 19 Editon 19 Compo sizion to 9 SIGN	74. Ado 2020 nent 1 15/8 ch.Div	wwwNints WAA Supports 1  vision	
Art the ASME Corr Code Case No. Data Data Data Windol aspirat Windol asp	tion on file at Logo Crossing Officers	te m the report are co at Flant Components. Pacific Si (KiPT Cartific 1981	Section III; Orvision I, <u>cientific</u> <u>icientific</u> <u>icientific</u> to use the ter of exten FICATION OF DES <u>ntific Compan</u>	Edition_19	74. Ado 2020 nent 1 15/8 ch.Div	wwwNints WAA Supports 1  vision	<u></u>
Ar the ASME Concerning and an and a spin and	ade for Nuclear For <u>1644-6</u> <u>12/81</u> Signed Infreste of Authorizat August 1000 on File at <u>1</u> 1000 Carecily Or C Scientifi Per NA-3256 Infons Cartilled by 1 533	te m the report are co at Flant Components. Pacific Si (KiPT Cartific 1981	Avect and that these co Section III; Ownion I, <u>cientific</u> ficate Molders <u>98</u> to use th ter of exten FICATION OF DES <u>ntific Compay</u>	roponenti suppo Eckiton 19 br	74. Ado 2020 nent 1 15/8 ch.Div	whos M Supports 1 vision nia	<u></u>
Ar the ASME Construction of the ASME Construction of the second s	ade for Nuclear For <u>1644-6</u> <u>12/81</u> Signed Infreate of Authorizat 	e m the report are co ar Flant Components. Pacific So (NPT Cantol 1000 No. N-11 1981. E Let CERTI Pacific Scient CERTI Pacific Scient CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI	Avect and that these co Section III; Ownion I, <u>cientific</u> ficate Molders <u>98</u> to use th ter of exten FICATION OF DES <u>ntific Compay</u>	Edition_19	74. Ado 2020 nent 1 15/8 ch.Div	whos M Supports 1 vision nia	<u></u>
Art the ASME Corr Code Case No. Code Case No. Code Case No. Anter ASME Corr ymbol aspires ymbol aspires Pacific Filed Kersy Soccilication Filed Analysis tress Analysis E State Cal	ade for Nuclear For <u>1644-6</u> <u>12/81</u> Signed Infreate of Authorizat 	ex in the report are co at Flant Components, at Flant Components, at Flant Components, (NiFT Cantil tion No11 19816 let CERTI Pacific Scient CERTI Pacific Scient CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI	Ay	roponenti suppo Eckiton 19 br	74. Ado 2020 nent 1 15/8 ch.Div	whos M Supports 1 vision nia	<u></u>
Arigo Informe Arigo Informe Arigo Informe Arigo Informe Filed Arigo No. 13 Arigo	ade for Nuclear For <u>1644-6</u> <u>12/81</u> Signed Infreste of Authorizat <u>4 August</u> <u>1000 on File at</u> <u>1000 Caracity Ort</u> <u>533</u> Record of Load Crown <u>1607 nia</u> <u>1607 nia</u> <u>1607 nia</u>	ex in the report are co at Flant Components, at Flant Components, at Flant Components, (NiFT Cantil tion No11 19816 let CERTI Pacific Scient CERTI Pacific Scient CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI CERTI	Ay	Edition Edition brEdition FEdition E. E. Ay Suded III also	14. Add	Arros Sints ALA Supports 1 1 1 1 1 1 1 1 1 1 1 1 1	27. 175. 11.222 27. 175 11.531 H 11.531 H
Arigo Informe Arigo Informe Arigo Informe Arigo Informe Filed Arigo No. 13 Arigo	ade for Nuclear For <u>1644-6</u> <u>1281</u> Signed Inficate of Authorization <u>4 August</u> <u>1000 on File at</u> <u>1000 on File at</u> <u>1000 Concertor</u> <u>1000 Concertor</u>	Ex m the report are co at Plant Components. at Plant Components. Pacific Scient Pacific Scient CERTI Pacific Scient CERTI Pacific Scient CERTI Pacific Scient Scient On Fale at CCOMPANY Scient Data Sharts Carton Reg No _1: Reg No _1: State on each sheet, a	Ay	EGINON LO S SIGN PF State Ca E. Ay	14. Add	Arnos, _Kinte MARAA Supports I rision pia   I   I                                                                                                                                                                                                                                                                                                                                                                                            _	1:531 H

----

-----

1

The second s

FORM NF-1 (Back)

_	
-	CERTIFICATE OF SHOP INSPECTION
	, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Impectors and the State or rovince of <u>CallfOCTIL</u> and employed by <u>HSBLE_I</u> of <u>HATAFORD</u> . <u>CT</u>
	a 81, and state that to the best of my knowledge and belief the NPT Certificate nonder has constructed these component supports in accordance with the ASME Code for Nuclear Power Plant Components.
3	ly signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied; concerning the component upports described in this Data Report, Furthermore, neither the Inspector nor his employer shall be liable in any manner for any sersonal injury or property damage or a loss of any kind arising from or connected with this inspection.
ت 2	igner 2 Sucht commissione Ca 1445 PENN WC 2856
L	
	CERTIFICATION OF FIELD INSPECTION
	the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel/Infoectors and the State or ravince of of and employed by
î.	have compared the statements in this Data Report with the described component supports and state tal the parts referred to as data items, not included in the certificate of shop inspection, have been seecled by me and that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component supports in accord. To with the ASME Code for Nuclear Power Plant Components.
24	y signing this certificate neither the Inspector nor his employer makes any warranty, subressed or implied; concerning the Composition (sports described in this Date Aeson: Furthermore, neither the inspector nor his emplorer shall be field; in any Makher for any sersonal num or prosente damage or a loss of any kind arising from or connected with this inspection.
D	•**•
\$.	pred Commissions (Mort's's', State, Prov. end Math
	MAR 2 1983
	og 4993
	Sanoh

40

ĩ

.E

1E51-128

	NIS-2	NR-1 OWNE						ENTS
P	NPP No. 9308 R		quired by the Provi					NQI-1741
1	. Owner:	FIRST	ENERGY CORP.				Date <u>05/27/03</u>	
-		10 Center F	Road, Perry, Ohio	44081			Sheet <u>1</u> of	2
2	. Plant:	Perry Nucl	ear Power Plant (P	NPP)			Unit <u>1</u>	
		10 Center F	toad, Perry, Ohio 4	4081			03-004949-000, (Repair Org. P.O. N ORDER NO 20	lo., etc.)
3	. Work Perfo	rmed By: <u>FIRSTEI</u>	NERGY Nuclear Ope	erating Corr	pany PNPP		Type Code Symt	ool Stamp <u>NR</u>
		<u>10 Ce</u>	enter Road, Perry,	<u>Ohio 4408</u>	: <u>1</u>		Authorization No	33
ļ							Expiration Date	9-26-05
4	. Identificatio	n of System: <u>1E51</u>	RX Insolation Co	oling Syste	em			
		e Construction Co				1	,1974 Editi	оп
			NAME/SECT	ION/DIVISIO	N/CLASS			
	Winter		Addenda Code	Case(s) _				
		1413, 1644-5, and						
	(b) Constru	iction Code used fo	or repairs, modifica	itions, or re	eplacement		tion Addenda	N/A Code Case(s)
	(c) ASME (	Code Section XI ap	plicable for Inservi	ice Inspeci	tion:	<u>1989</u> Edi	N/A Addenda	N/A Code Case(s)
	(d) Applica	ble Edition of Secti	on XI Utilized for R	tepairs, Mo	odification,	or Replac	ements:	
	19 <u>89 ,</u>	<u>N/A</u> 19 <u>N/A</u>	Addenda <u>N/A</u>	Case(s)				
	(e) Design	Responsibilities <u>Fl</u>		(-,	ating Comp	any		
6	. Identification	n of Components F	Repaired, Modified,	or Replac	ement Con	nponents		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
	Piping System	Puliman Power Products	1E51	N/A	N/A	1985	Replacement	Yes
	<u></u>					1		
	Description erial Number	of Work: <u>Replaced</u> 11054	Snubber Serial N	umber 142	1 284 on Pipir	l ng Suppo	rt 1E51-H0111 wit	h Snubber
8	Test Condu	cted: Hydrostatic	-	ic- 🗍 🔹	Nominal On	erating P	ressure- 🗌 Oth	er- []
	Pressure <u>N</u>	•	st Temperature <u>N</u>		legrees F	-	Case(s) <u>N/A</u>	

-	NPP No. 9308 Rev. 9/11/00NQI
9.	. Remarks:
_	
_	
	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING FFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
	THEOTAND JURISDIC HONAL AUTHORITH CONCORRENCE HAVING DEEN RECEIVED.
N	ote: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
1.44	drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of th
	report is included on each sheet, and (3) each sheet is numbered and the number of sheets is record
	the front of this form.
	CERTIFICATE OF COMPLIANCE
	I, <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report a correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASM
	Context and the repair, modification or replacement of the items described above conforms to Section XI of the ASM Code and to the National Board Inspection Code "NR" rules.
	National Board Certificate of Authorization No33 to use the "NR stamp expires 9-26, 20 05
	Date May 27 , 20 03 Signed FENOC-PNPP
	(name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, Thomas G. Laps,holding a valid commission issued by The National Board of Boiler
ĺ	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	and employed by Hartford Steam Boiler Ct of Hartford, Conn ha
	inspected the repair, modification or replacement described in this report on <u>lune</u> , 20 <u>03</u> and state that to
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance w
	Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
i	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
1	any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspec
	Date JUNE 9 20 03 Signed 1 howos 1 John Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsement

			· ••		51-17	28	
<b>`</b>					. ż	52	
FORM	NF-1 NPT CE	ATTACATE HOLD	ERS' DATA REP	ORT FOR CO	MPONE	NT SUPPOR	<b>15</b> • .
`/	As Required	by the Provisions	of the ASME Code	Rules, Section	on III, Di	vision 1	
Constant of the line of the	Pacifi	c Šcientific	Co 1346 6	State C		Blud B	abeda a
Manufactured	by	<u>c Šcientífic</u>	(Name and address of Hi	PT Cartificate Hold	en	<u>. 81vu. A</u>	<u>92803</u>
All and potestat		Piping Co. 8	29 Beaver Av	re Pittsbu	irg, I		
a. wann.actara.		(	Name and eddross of p		erl		
J. Location of In	stallauon	• •	Unk	nown			
4. Identification	-			• •			
lei Component	(b) Cenedien	ici Appircable	fdi Stress Report	fel Type of	tt)	<b>fg</b> 1	051
Support	Registration	Drawings with	or Losd Cape-	Component	~	Nat <sup>3</sup> Soard	<b>.</b>
I. D. No.	No.	Last Rev. & Date	City Data Sheet	Succont	Cen	No.	Year Built
m_ <u>10968-</u>		<u>LB01103-07-Н D</u>	R-1352-Rev. B	Linear		None	1981
(2) 11067		•					
(3)							
(4)			··				
(5)					•		
				· · · · · · · · · · · · · · · · · · ·		MAR 2	1983
(9)						THI	
(101							<u>"\$}</u>
5. Remarks				· · · · · · · · · · · · · · · · · · ·		<u> (ठूॅ - 499</u>	러 최
							-192/
							KV
of the ASME Cod	e for Nuclear Pow	to in the report are to		mponents suppo		which himt	er 175
	lor Nuclear Paw 1644-6	te in this report are co ar Plant Components; (	riect and that these co Section 111; Division 1,	mponents suppo		which himt	
of the ASME Cod	lor Nuclear Paw 1644-6	to in the report are to	riect and that these co Section III; Division 1, Cientific	mponents suppo		which himt	er 175
of the ASME Cod Code Case No Date	e los Nuclear Por 1644-6 2/81 signa	te in the record are con ar Plant Components of <u>Pacific Sc</u> (NPT Certur	react and that these co Section III; Division 1, <u>cientific</u> icate momeers	mponenti suopo Edition19	14. no Vari	and Sint	er 175
of the ASME Cod Code Case No Date	lor Nuclear Paw 1644-6	te in the record are con ar Plant Components of <u>Pacific Sc</u> (NPT Certur	riect and that these co Section III; Division 1, Cientific	mponenti suopo Edition19	14. no Vari	and Sint	er 175
of the ASME Cod Code Case No Date	e for Nuclear Pow 1646-6 2/81 Signe Kate of Authorizat	te in the record are con ar Plant Components of <u>Pacific Sc</u> (NPT Certur	rroct and that these co Soction III; Division 1, <u>cientific</u> icate molecri <u>98</u> to use th	пропента норо Еслиоп]9 . br . соп9	14 Ad	sinds <u>Fint</u> UAA Supports	er 175
of the ASME Cod Code Case No Dete	e for Nuclear Pow 1646-6 2/81 Signe Kate of Authorizat	a mine recort are co er Plant Components: Pacific Sc (NPT Center tron No. <u>N-114</u>	rroct and that these co Soction III; Division 1, <u>cientific</u> icate molecri <u>98</u> to use th	пропента норо Еслиоп]9 . br . соп9	14 Ad	sinds <u>Fint</u> UAA Supports	er 175
of the ASME Cod Code Case No Dete	e for Nuclear Pow 1646-6 2/81 Signe Kate of Authorizat	a mine recort are co er Plant Components: Pacific Sc (NPT Center tron No. <u>N-114</u>	rroct and that these co Soction III; Division 1, <u>cientific</u> icate molecri <u>98</u> to use th	пропента норо Еслиоп]9 . br . соп9	14 Ad	sinds <u>Fint</u> UAA Supports	er 175
of the ASME Cod Code Case No Dete	e for Nuclear Pow 1646-6 2/81 Signe Kate of Authorizat	x in the record are to ar Flant Components: 5 and <u>Pacific Sc</u> (NPT Control 100 No. <u>N-110</u> .1981	rroct and that these co Soction III; Division 1, <u>cientific</u> icate molecri <u>98</u> to use th	Edition_19	14 Ad	sinds <u>Fint</u> UAA Supports	er 175
of the ASME Cod Code Case No Date Our ASME Certifi Symbol expires	Le lor Nuclear Pow 1646-6 2/8/ Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa	te en ine recort are co er Flant Components: 5 d <u>Pacific Sc</u> (NPTCensi tron No. <u>N-110</u> .1981. É let CERTIN	riect and that these co Section III; Division 1, <u>cientific</u> icate modern <u>38</u> to use th iter of exten FICATION OF DES	EditionIP	74. Ad 2001 nept_ 100 100 100 100 100 100 100 10	when <u>Fint</u>	er 175
of the ASME Cod Code Case No Date Our ASME Cartill Symbol expires_ Design Informatic	e for Nuclear Pow 1646-6 2/8/ Signa cate of Authorizat 4 August 15000 File atE	te m ihe recort are co ar Plant Components: 5 d. Pacific Sc (NPTCense 1981 E Let CERTIN Pacific Scier	riect and that these co Section III; Division 1, <u>cientific</u> icate modern <u>38</u> to use th iter of exten FICATION OF DES	EditionIP	74. Ad 2001 nept_ 100 100 100 100 100 100 100 10	when <u>Fint</u>	er 175
of the ASME Cod Code Case No Date Our ASME Cartill Symbol expires_ Design Informatic	e for Nuclear Pow 1646-6 2/8/ Signa cate of Authorizat 4 August 15000 File atE	te m ihe recort are co ar Plant Components: 5 d. Pacific Sc (NPTCense 1981 E Let CERTIN Pacific Scier	riect and that these co Section III; Division 1, <u>cientific</u> icate modern <u>38</u> to use th iter of exten FICATION OF DES	EditionIP	74. Ad 2001 nept_ 100 100 100 100 100 100 100 10	when <u>Fint</u>	er 175
of the ASME Cod Code Case No Data Data Our ASME Cartill Symbol expires Cosign Informatic Strent Gapont or L PACLIFIC	e lor Nuclear Pow 164 6-6 2/8/ Signa cate of Authorizat - 4 August 1000 File at - 501 Cate of Jentifi	A in the record are co ar Flant Components: 5 ar Flant Components: 5 and <u>Pacific Sci</u> (NPT Centre 100 No. <u>N-110</u> .1981. É let CERTIN Pacific Scier Is Shern on fue at Is Company	riect and that these co Section III; Division 1, <u>cientific</u> icate modern <u>BB</u> to use th iter of exten FICATION OF DES htific Compan	Edition_19 Edition_19 brCOMPO ISION to S SIGN ny Kin-Te	74. Ad DOP nent: N 0/15/8 ch.Di	wnes <u>Kint</u> KARA	er 175
of the ASME Cod Code Case No Data Our ASME Cartill Symbol expires Orsign Information Strent Gapont or L Pactific Filed p	e for Nuclear Pow 1646-6 2/8/ Signa cate of Authorizat 4 August 15000 File atE	A mine recort are co ar Flant Components: 5 ar Flant Components: 5 ar Flant Components: 5 ar Flant Components: 5 ar Flant Components: 5 CERTIN Pacific Scier a Shern on File at CC Company	riect and that these co Section III; Division 1, <u>cientific</u> icate modern <u>BB</u> to use th iter of exten FICATION OF DES htific Compan	EditionIP	74. Ad DOP nent: N 0/15/8 ch.Di	wnes <u>Kint</u> KARA	er 175
of the ASME Cod Code Case No Data Our ASME Cartill Symbol expires Orsign Information Strent Gapont or L Pactific Filed p	e lor Nuclear Pow 1646-6 2/8/ Signa cate of Authorizat - 4 August 1000 on File atE on on File atE cate Catentific Scientific er NA-3256 ant Catelling by 1	A mine recort are co ar Flant Components: 5 ar Flant Components: 5 ar Flant Components: 5 ar Flant Components: 5 ar Flant Components: 5 CERTIN Pacific Scier a Shern on File at CC Company	riect and that these co Section III; Division 1, <u>cientific</u> icate modern <u>BB</u> to use th iter of exten FICATION OF DES htific Compan	Edition_19 Edition_19 brCOMPO ISION to S SIGN ny Kin-Te	74. Ad DOP nent: N 0/15/8 ch.Di	wnes <u>Kint</u> KARA	er 175
of the ASME Cod Code Case No Dete Our ASME Certific Symbol expires Design Information Strent Capartor I PACLED P Design Specification Reg. No135	e lor Nuclear Pow 1646-6 2/8/ Signa cate of Authorizat - 4 August 1000 con File atE on on File atE Scientifi er NA-3256 on Cartillod by 1 33	A m the record are co. ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 CERTIN Plant Company 5 1 _ Leo E.	Ay	Edition Edition brE COMPO ISEON to S SIGN ny Kin-Te PE State_CA	74. Ad DOP nent: N 0/15/8 ch.Di	wnes <u>Kint</u> KARA	er 175
of the ASME Cod Code Case No Dete Our ASME Certific Symbol expires Detign Information Streng Cast and Filed p Denign Specification Reg. No135 Streng Analysis Reg.	e lor Nuclear Pow 1646-6 2/8/ Signa cate of Authorizat - 4 August 10000 File at _ F - 010 Catentifi Er NA-3256 on Cartilied by 1 33 	A mink recort are co ar Flant Components: 5 ar Flant Components: 5 ar Flant Components: 5 ar Flant Components: 5 .1981 Iet CERTIN Pacific Scier a Shern on fut at Ic Company 5 .1. Leo E. actor Data Sharts Contr	Ay Leo	Edition_19 Edition_19 brCOMPO ISION to S SIGN ny Kin-Te	74. Ad DOP nent: N 0/15/8 ch.Di	wnes <u>Kint</u> KARA	er 175
of the ASME Cod Code Case No Dete Our ASME Certific Symbol expires Design Information Strent Capartor I PACLED P Design Specification Reg. No135	e lor Nuclear Pow 1646-6 2/8/ Signa cate of Authorizat - 4 August 10000 File at _ F - 010 Catentifi Er NA-3256 on Cartilied by 1 33 	ar mine record are co. ar Plant Components: S ar Plant Components: S ar Plant Components: S ar Plant Components: S ar Plant Components: S CERTIS Pacific Scient CERTIS Pacific Scient Sherm on Fate at CCOMPANY S 11 LEO E. active Data Sharts Carts	Ay	EditionIP	74. Ad DOP nent: N 0/15/8 ch.Di	wnes <u>Kint</u> KARA	er 175
of the ASME Cod Code Case No Dete Our ASME Contribu- Symbol expires Design Informatic Streng Calfic Filed p Denign Specification Reg No135 Streng Analysis Re PE State_Cali	e lor Nuclear Pow 1646-6 2/8/ Signa cate of Authorizat - 4 August 10000 File at _ F - 010 Catentifi Er NA-3256 on Cartilied by 1 33 	te en ibe recort are co ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 CERTIN Pacific Scier CERTIN Pacific Scier Shorn on fut at IC Company 5 11 Leo E. actor Data Shorts Contr Rog No3	Ay Leo	EditionIP	74. Ad DOP nent: N 0/15/8 ch.Di	wnes <u>Kint</u> KARA	er 175
of the ASME Cod Code Case No Dete Dur ASME Contributions Symbol expires Design Information Stress Gabort or I PACLINC Filed p Design Specification Reg No Stress Analysis Re PE State Cali	e lor Nuclear Power 1644-6 2/8/ Signa cate of Authoritan - 4 August 1000 on File atE on on File atE Scientif er NA-3256 on Cartillod by 1 33 coort or Load Crop fornia	A mike record are co. ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 CERTIN Plant Company 5 1 Leo E. ar ry Data Sharts Carts Reg No _ 13 aures	AyLeo	Edition Edition by COMPO ISION to S SIGN <u>ny Kin-Te</u> PE State <u>Ca</u> E. Ay	74. Ad POP nent in P/15/8 ch Di lifor	Ands Sint Real A Supports 1 1 vision	57. 175 Decen
of the ASME Cod Code Case No Date No Date No Our ASME Cattill Symbol expires Symbol expires Design Informatic Stress Gaportor I Pacific Filed p Design No. 135 Stress Analysis Re PE State Cali Ciless Analysis Re PE State Cali Ciless Analysis Re Supplemental s 4C. 40 ant this De	e lor Nuclear Power 1646-6 2/8/ Signa scale of Authorizat - 4 AUGUST 100 on File atE - 5010 Caracity Dat Scientif er NA-3256 oni Cartiliod by 1 33 	x on the record are co. ar Plant Components: 3 ar Plant Components: 3 ar Plant Components: 3 ar Plant Components: 3 1981. E let CERTIN Pacific Scient CERTIN Pacific Scient Pacific Scient	Ay	EditionIQ EditionIQ byCOMPO ISION to S SIGN <u>ny Kin-Te</u> PE State <u>Ca</u> E. Ay	74. Ad nent in 0/15/8 ch Dia 1ifori	Ands Sint ACA Supports Ti 1 Vision Dia TI City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City	<u>ет 175</u> Деле Деле Деле Деле Поле 1531 <u>Н</u> Ц
of the ASME Cod Code Case No Data Data Data Data Data Our ASME Castific Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Stress Calin Caline Filed p Data Socialized Filed p Data Socialized Reg No. 135 Stress Analysis Re PE State Caline Supplemental s 44. 40 on this Oa	e lor Nuclear Power 1.64 6-6 2/8/ Signa Signa Signa Authorizat Signa Authorizat Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa	A mike record are co. ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 CERTIN Plant Company 5 1 Leo E. ar ry Data Sharts Carts Reg No _ 13 aures	Ay	EditionIQ EditionIQ byCOMPO ISION to S SIGN <u>ny Kin-Te</u> PE State <u>Ca</u> E. Ay	74. Ad nent in 0/15/8 ch Dia 1ifori	Ands Sint ACA Supports Ti 1 Vision Dia TI City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City City	<u>ет 175</u> Деле Деле Деле Деле Поле 1531 <u>Н</u> Ц
of the ASME Cod Code Case No Date Date Date Dur ASME Contribu- Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Stress Call Call Liss name entri Supplemental s 4c. 4g on this Oe this form.	e lor Nuclear Power 1.64 6-6 2/8/ Signa Signa Signa Authorizat Signa Authorizat Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa	te en ibe recort are co ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 	AyLeo	Edition Edition byEdition eEdition EEdition SIGN nyEdition SIGN nyEdition PE State_Ca E EAy	74. Ad	Ands Sint ACA Supports Ti 1 Vision Dia TP (2) undormation Energy is record	ст 175 2010 2010 2010 2010 2010 2010 2010 201
of the ASME Cod Code Case No Data Data Data Data Data Our ASME Castific Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Stress Calin Caline Filed p Data Socialized Filed p Data Socialized Reg No. 135 Stress Analysis Re PE State Caline Supplemental s 44. 40 on this Oa	e lor Nuclear Power 1.64 6-6 2/8/ Signa Signa Signa Authorizat Signa Authorizat Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa	te en ibe recort are co ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 	Ay	Edition Edition byEdition eEdition EEdition SIGN nyEdition SIGN nyEdition PE State_Ca E EAy	74. Ad	Ands Sint ACA Supports Ti 1 Vision Dia TP (2) undormation Energy is record	ст 175 2010 2010 2010 2010 2010 2010 2010 201
of the ASME Cod Code Case No Date Date Date Dur ASME Contribu- Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Symbol expires Stress Call Call Liss name entri Supplemental s 4c. 4g on this Oe this form.	e lor Nuclear Power 1.64 6-6 2/8/ Signa Signa Signa Authorizat Signa Authorizat Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa	te en ibe recort are co ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 ar Plant Components: 5 	AyLeo	Edition Edition byEdition eEdition EEdition SIGN nyEdition SIGN nyEdition PE State_Ca E EAy	74. Ad	Ands Sint ACA Supports Ti 1 Vision Dia TP (2) undormation Energy is record	ст 175 2010 2010 2010 2010 2010 2010 2010 201

~

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 Impactors and the State of Province of California and employed by HSBI & I of Hartford, CT. have inspected the component supports described in this Osta Report on  $\underline{-8*12}$ 19 81\_ and state that to the best of me bnowledge and belief the NPT Certificate Horder 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 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 B. Commissions Ca 1445 HENN WC CERTIFICATION OF FIELD INSPECTION t, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Fravince of\_ \_ and employed by \_\_\_\_ \_ of \_ have compared the statements in this Data Report with the described component supports and state that the parts referred to as data items ... Shepected by me and that to the best of my knowledge and belief the HPT Certificate Hulder has constructed these component subjects in according ance 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 composition Ausports describes in this Oata Report. Furthermore, neilner the inspector nor his employer shall be flable in any manner for any personal [foury of property damage or a loss of any kind arising from or connected with this inspectivity. Dete\_ Commissions Signed (Not'l Bd , State, Prov. and Net MAR 2 1983 ť٩ PŇĬ 2/105 

				/	E51-129	
	R'S REPOR quired by the Provi	-				
PNPP No. 9308 Rev. 9/11/00						NQI-1741
1. Owner:FIRST	ENERGY CORP.				Date 05/29//03	
10 Center R	Road, Perry, Ohio	44081			Sheet 1 of	1
2. Plant: Perry Nucl	ear Power Plant (F	NPP)			Unit <u>1</u>	
	load, Perry, Ohio 4				03-004948-000,	<u>R-0</u>
					(Repair Org. P.O. N AVO ORBEZ NO EC	
3. Work Performed By: _FIRSTEI	NERGY Nuclear Ope	erating Corr	pany PNPP		Type Code Symb	ol Stamp NR
	enter Road, Perry,				Authorization No.	33
					Expiration Date	-26-05
4. Identification of System: <u>1E51</u>	Reactor Core Iso	lation Syst	em	-		
5. (a) Applicable Construction Co				>	19 <u>74</u> Editio	
	NAME/SECT			<u> </u>	Cont	
<u>Winter</u> 19 <u>75</u> A	Addenda Code	Case(s) <u>N</u>	<u>71-6, N71-9</u>	<u>), N225, I</u>	<u> N249, N272, N413,</u>	and 1728
(b) Construction Code used for	or repairs, modifica	itions, or re	eplacement		W75 tion Addenda	N/A Code Case(s)
(c) ASME Code Section XI ap	plicable for Inservi	ce Inspect	lion:	<u>1989</u> Edi	N/A tion Addenda	N/A Code Case(s)
(d) Applicable Edition of Section	on XI Utilized for R	epairs, Mo	odification,	or Replac	ements:	
19 <u>89 N/A</u> 19 <u>N/A</u>		Case(s)				
(e) Design Responsibilities <u>FI</u>			ating Comp	any		
6. Identification of Components R	Repaired, Modified,	or Replac	ement Con	nponents		
Name of Name of Component Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID,	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping Johnson System Controls	1E51-00 68F	015	1H22- P015- H1297	1985	Replacement	Yes
	<u> </u>			۰.		
		[				
						<b></b>
						<u> </u> ]
7. Description of Work: <u>Replaced</u> Snubber Serial number 39122	Snubber Serial N	umber 343	341 on pipir	ig suppor	t 1H22H1915 with	New
8. Test Conducted: Hydrostatic	-  Pneumat	ic- 🔲 🗈	lominal Op	erating P	ressure- 🗍 Oth	er- []
	st Temperature <u>N</u>		legrees F	-	Case(s) <u>N/A</u>	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NQL-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, Lester J. Erbacher, 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 05
Date May 29_, 20 03 Signed FENOC-PNPP QE (name of repair organization) (automized representative) (title)
(name or repair organization) (automized representative) (auto)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G. Laps,holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by Hartford Steam Boiler Ct. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on JUNE 6, 20 03 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 JUNE 6, 20 03 Signed Thomas & Commissions NB 9330 "N" "I" "A" Ohio Comm.
(inspector) U (National Board (include endorsements),
and jurisdiction, and no.)

1E51 - 130

	NIS-2		R'S REPOR					ENTS	
P	NPP No. 9308 R		quired by the Provis	sions of the	e ASME Co	de Secu	on XI	NQI-1741	
1	. Owner:	FIRST	ENERGY CORP.				Date 7-1-03		
			Road, Perry, Ohio	44081			Sheet 1 of	2	
	-								
2	. Plant:	Perry Nucl	ear Power Plant (P	<u>'NPP)</u>	·		Unit <u>one</u>		
		10 Center F	Road, Perry, Ohio 4	4081			WO 01-13476-00 (Repair Org. P.O. N		
							(Ropan Org. F.C. F	.,,	I
3	. Work Perfo	rmed By: <u>FIRSTEI</u>	NERGY Nuclear Ope	erating Com	pany PNPP		Type Code Symt	ool Stamp <u>N</u>	R
		<u>10 Ce</u>	enter Road, Perry, O	<u>Ohio 4408</u>	1		Authorization No		<b></b>
							Expiration Date	9/26/2005	
4	. Identificatio	n of System: <u>RX (</u>	Core Isolation Cool	ing					
5	. (a) Applicat	e Construction Co	ode: ASME Section	n III NB			,19 <u>74</u> Editi	on	
			NAME/SECT	ION/DIVISIO					
	Winter	19 <u>75</u> _ /	Addenda Code	Case(s) <u>N</u>	<u>/A</u>				
						4074	Weter 75		•
	(D) Consuu	iction Code used it	or repairs, modifica	itions, or re	spiacement		tion Addenda	Code Case(s	5)
	(c) ASME (	Code Section XI ap	plicable for Inservi	ice Inspect	ion:	<u>1989</u>	tion Addenda	Code Case(s	
	(d) Applical	ble Edition of Secti	on XI Utilized for R	enairs. Mc	odification. c				3)
		<u>N/A 19 N/A</u>		opuno, mo	/diriou.ori, .	/////	omente.		
				e Case(s)	reting Com	nany PNF	ad		
6			Repaired, Modified,				-4		
	Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME	i
	Component	Manufacturer	Serial No.	Board No.	ID,	Built	Replacement, or Modification	Code Stamped	
	Valve	Rockwell	RA-53	824	1E51F66	1982	Replacement	yes	
		International		<b></b>				-	
							l		
	<b>D</b>							<u></u>	ł
7	-		Jold disk assembly				1996-1. Also repla	aced	
0			nd one Heavy Hex					 er- 🗍	
0	Pressure <u>1(</u>	cted: Hydrostatic	_		•	-	—	er- 🗋	
	Flessure II	<u>, 104</u> psi re:	st Temperature 14	<u>+&gt;</u> 0	legrees F	Code	Case(s) <u>N/A</u>		

NIS-2/NR-1 OWNER'S REPORT FOR	REPAIRS OR REPLACEMENTS (Back)
PNPP No. 9308 Rev. 9/11/00	NQI-174

9.	Remarks:	VT-2 exar	n performed	during IS	B21-T1300-1

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370

BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

## CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. \_\_\_\_\_33\_\_\_

Date <u>1 July</u>, 20 03 Signed <u>FENOC-PNPP</u> (name of repair organization)

to use the "NR stamp expires 26 Sept. , 20 05\_\_\_ Mulal / Dir QC (authorized representative) (title)

## **CERTIFICATE OF INSPECTION/INSERVICE INSPECTION**

I, Thomas G Laps	,holding a valid commission issued by The Na	ational Board of Boiler and
Pressure Vessel Inspectors and certificate	of competency issued by the jurisdiction of	OHIO
and employed by <u>HSB_CT.</u>	of Hartford, Conn.	have
inspected the repair, modification or replac	ement described in this report on July 28, 20 0	3_ and state that to
the best of my knowledge and belief, this n	epair, modification or replacement has been comp	leted in accordance with
Section XI of the ASME Code and the National Section XI of the ASME Code and the National Section 2015	onal Board Inspection Code "NR" rules.	
By signing this certificate, neither the unde	rsigned nor my employer makes any warranty, exp	pressed or implied,
concerning the work described in this report	rt. Furthermore, neither the undersigned nor my er	mployer shall be liable in
any manner for any personal injury, proper	ty damage or loss of any kind arising from or conn	ected with this inspection.
Date July 28 20 03 Signed There	(inspector) Commissions NB 9330 (National Bo and	<u>N" "I" "A" Ohio Comm.</u> aard (include endorsements), jurisdiction, and no.)

1E51-130 PAGE 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 cartilled by EDWARD VOGT VALVE COL 1900 S. SAUNDERS ST. RAEIGH NC 27603 2. Manufactured to ELEST EDERGY CORP P. D. BOX BULL AKRON OH 44309 1 Location of Installation CED PERRY PLANT, IDIGENTER RD NORTH PERRY OH 44081 4. TYDE DB2-24404-17 NJ SA105

5. ASME Code, Section III, Division 1. ALA . Cossili N/A Date N/A 6. Fabricated in accordance with Const. Spec (Div 22 only) 71 Remarks Dista 6 4374 (120) TOTY TOTY TO 12

EN STINKE

9; When applicable, Certificate Holders, Data Réports are attached (or each te

Part dr. oppurtenance Serial Number Board Ne In Numerical Orde in Numerical Order TTASCENTE 11 TASCENTE 12 TASCENTE 13 TASCENTE 14 TASCENTE (5)

194119

(B) 行用的思想和和 10516 (13) 25 6 3 6 20 30 12 12 (16)\*\*\*\*\* (17) Store Sec. Real of La Zaland

(16) 11.11.11.11 Complete States and an Addition for the second 2 Contraction of the second 1991 - Aller Contract and Annual March 1995 

 This form (COOC)
 Torong (COOC)
 Toron

[2] [2]

[28] (20) (20)

35 000 000 000 000 000 000 (37) (39) (40) (41) (41) (43) (44) (44) (37) (38)

NEASE OF A SHEAR CLASSED 148) **4. 2. 199 3. 4** 1. 199 (43) **199 199 199** 

50/19403

A166 8 1

14 M 2 M 2 M 2 M

44.17.28

1117**77 10 10**42174917 \*F. stlydio testpressure N/A

122

206

FORM N/2(Back)= Pg=2:of -2-11-1111

Certificate Holder's Seña Noel<u>, 7/996-11.</u> through 7/996-7.

Design specifications certified by Frences C Roscia Jr. Design specifications certified by Frences C Roscia Jr. 113 Inner motoball P.E. Siete PA Reg. no. OCORSSE E El Suite and the second s

-CERTIFICATE OF COMPLIANCE conforms to the rules of construction of the ASME Code; Section III, Division 1 <u>..../26/0</u> NPT Certificate of Authorization No.

Date SI27/ST Name EDWARD VOGT VALVE CO

 CERTIFICATE OF INSPECTION
 Set of order depose
 Additional and a set of the s AHSB CT 

Dest Diviny knowledge and be III, Division 1 - Each particisted this Data Rep Soss of Bny Lindia Date 3-27-0 Consected with this inspection

1E51-131

NIS-2	2/NR-1 OWNE						ENTS
PNPP No. 9308		quired by the Provi	isions of tr	e asme co	ode Secti		NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 7/25/03	
		Road, Perry, Ohio	44081			Sheet 1 of	1
-							·
2. Plant:	Perry Nuc	lear Power Plant (F	NPP)			Unit <u>ONE</u>	
-	10 Center F	Road, Perry, Ohio 4	44081			<u>W.O. 01-15820  </u>	
					۰.	(Repair Org. P.O. N	Ю., etc.)
3. Work Perf	ormed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Con	npany PNPP		Type Code Symt	ool Stamp <u>NR</u>
	<u>10 C</u>	enter Road, Perry,	<u>Ohio 4408</u>	<u>11</u>		Authorization No	. <u> </u>
						Expiration Date	9/26/2005
4. Identification	on of System: <u>1E5</u>	1 RX CORE ISOLA	ATION CO	OLING			
1	ble Construction Co					_,19 <u>74</u> Editi	00
5. (a) Applica		NAME/SECT	ION/DIVISIO	N/CLASS	<u>``</u>	,19 <u>74</u> E0ia	
<u>Winter</u>	19 <u>75</u>	Addenda Code	Case(s) <u>N</u>	-242,N-272	2 <u>,1728,N-</u>	413,1644-5,N-241,	N-275
·							
(b) Constr	uction Code used for	or repairs, modifica	ations, or r	eplacement		tion Addenda	N/A Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	1989	N/A	N/A
			-	ĸ		tion Addenda	Code Case(s)
• • • •	able Edition of Section		•	odification,	or Replac	ements:	
	<u>N/A</u> 19 <u>N/A</u>	Cod	e Case(s)				
	Responsibilities <u>F</u>						
6. Identificatio	on of Components F	Repaired, Modified,	, or Replac	cement Cor	nponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
			No.			or Modification	Stamped
PIPING SYSTEM	PULLMAN POWER	1E51	84	N/A	1985	REPLACEMENT	YES
	1			- 11	1		
				· · · · ·			
					<b> </b>		<u> </u>
					·		
	of Work: DURING				00003. (8	) STUDS 1-1/8-8 )	<u> 7"LG.</u>
	RE REPLACED IN						
	icted: Hydrostatic			•	-		er- 🗌
Pressure 1	<u>034</u> psi Te	st Temperature 14	<u>43 (</u>	legrees F	Code	Case(s) <u>N/A</u>	

.

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>DAVID K. ASKEW</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.
National Board Certificate of Authorization No.       33       to use the "NR stamp expires 26 Sept.       20 05         Date 7/25       20 03       Signed       FENOC-PNPP       Name       GE
(name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I, <u>Thomas G. Laps</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> Tel: SHO3 and employed by <u>Hiomas G. LAPS</u> H.S.B. CT. of <u>HARTFORD</u> CONN have inspected the repair, modification or replacement described in this report on Ax6.4, 20 03 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 Ilable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection. Date Avg.4, 20 03 Signed <u>Thomas</u> <u>Harga</u> Commissions <u>NB 9330 "N" "I" A" Ohio Comm.</u>
(inspector) ((National Board (include endorsements), and jurisdiction, and no.)

1422-004

	NIS-2		R'S REPORT					ENTS
<u> </u>	NPP_No. 9308 R		quired by the Provis	Sions of us	e ASME UU	Ne Secu	on XI	NQI-1741
	. Owner:	EIDe'	TENERGY CORP.				Date 05/27/03	
<b> </b> ''			Road, Perry, Ohio	44081			Sheet <u>1</u> of	
			JOAU, FEITY, ONO	44001	- <u></u>		Sheet i U	<u> </u>
1,	Plant:	Perry Nucl	ear Power Plant (P			·	Unit 1	
<b> </b> - ·	[  Q  IL		Road, Perry, Ohio 4				<u>03-004947-000,</u>	 R_N
			.040, 1 011 <u>1</u> 0110	4001			(Repair Org. P.O. N OPDER No 200	Vo., etc.)
I,	Work Dorfo	mad Big SIDETE						•
3.	WORK Perior	•	NERGY Nuclear Ope				Type Code Symbol	
			enter Road, Perry, (	<u>J(110 4400</u>	1		Authorization No Expiration Date	
								9-20-03
4.	Identification	n of System: <u>1H2</u> 2	2 Local Panels and	Racks		·		
5.	(a) Applicat	e Construction Cr	ode: ASME Section			IF-2	,19 <u>74</u> Editi	ion
		10 <b>7</b> 5	NAME/SECTI		•	- 1:040		
N	<u>Winter</u> 71-11 AND 1		Addenda Code (	Case(s) <u>N</u>	<u>224-1, NZZ</u>	<u>5, N249, I</u>	<u>N27, N3, N413, N7</u>	<u>71-6, N71-9,</u>
	· · · · · ·							
	(b) Constru	uction Code used fr	or repairs, modifica	ations, or re	eplacement			<u>N/A</u>
			· · · · ·	-			tion Addenda	Code Case(s)
	(C) ASME (	Code Section XI ap	oplicable for Inservi	ce Inspect	lion:	<u>1989</u> Edil	tion Addenda	<u>N/A</u> Code Case(s)
	(d) Applical	ble Edition of Secti	on XI Utilized for R	lepairs, Mc	odification, (	or Replac	ements:	
	19 <u>89</u> ,	<u>N/A</u> 19 <u>N/A</u>	Addenda <u>N/A</u>	<u> </u>				
	(e) Design	Responsibilities F	Code IRSTENERGY Nuc	e Case(s) clear Opera	ating Comp	anv		
6.			Repaired, Modified,					
l r	Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
	Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
	Piping	Johnson	1B21-0070F	001	N/A	1985	Replacement	Yes
	System	Controls						
		· · · · ·	1					
						<b> </b>		11
╽┟		<b>∤</b> '	'	<b>}</b> '	<u> </u>	<b>{</b> '	<u> </u>	+
╏┠		<b> </b> '	'	<u> </u>		<b> </b> '		<b>↓</b>
			[]	'				
7.	Description (	of Work: Replaced	original PSA-1/4	Snubber {	Serial Numt	ber 3433f	3 with Snubber Se	rial Number
<u>39</u>	118 on pipe :	support 1H22-H03	89 ( 1H22-P004-H1	1230 ).				<u></u>
8.	Test Conduc	•			•	-		ier- 🗌
	Pressure <u>N/</u>	<u>/A</u> psi Tes	st Temperature <u>N/</u>	<u>'A</u> d	legrees F	Code	Case(s) <u>N/A</u>	<u>,</u>

NIS-2/NR-1 OV NPP No. 9308 Rev. 9/11/00	WNER'S REPORT	FOR REF	AIRS OR REPLA	CEMENTS	(Back) NQI-1741
Remarks:					
			<u></u>		
	PING PERFORMED DU				
				· · · · ·	
drawings may be	ble Manufacturer's Data used, provided (1) size on each sheet, and (3) rm.	is 8 1/2 in. x 1	1 in., (2) information in i	items 1 through	6 of this
	CERTI		MPLIANCE		
correct and the repair, n	, certify that to the best nodification or replacemer al Board Inspection Code	of my knowled	ge and belief the statemer	nts made in this r to Section XI of t	eport are he ASME
National Board Certifica	ate of Authorization No.	33	to use the "NR stamp exp	ires <u>9-26</u> .	20 <u>05</u>
Date <u>May27 _</u> , 20 <u>03</u>	Signed FENO	C-PNPP wrganization)	Janthorized representati	ve) <u>QE</u> (ti	tie)
. <del> </del>	CERTIFICATE OF I		ISERVICE INSPECTION	<u></u>	
I, Thomas G. Laps	,hc	olding a valid o	mmission issued by The I	National Board of	Boiler and
Pressure Vessel Inspec	tors and certificate of com	petency issued	by the jurisdiction of	OHIO	1.
	ord Steam Boiler Ct.				
inspected the repair, mo	odification or replacement	described in th	s report on JUNE 6, 20	and state	e that to
the best of my knowledg	ge and belief, this repair, n	nodification or r	eplacement has been con	pleted in accord	ance with
Section XI of the ASME	Code and the National Bo	ard Inspection	Code "NR" rules.		
By signing this certificate	e, neither the undersigned	i nor my emplo	ver makes any warranty, e	expressed or impl	ied,
concerning the work des	scribed in this report. Furth	nermore, neithe	r the undersigned nor my	employer shall b	e liable in
any manner for any pers	sonal injury, property dama	age or loss of a	ny kind arising from or co	nnected with this	inspection.
Date WHEL, 20 03	Signed Thomas	Itan.	Commissions NB 9330 .	' <mark>N" " " "A" Ohio C</mark> Board (include end	omm

•

IM51-026

NIS-2						REPLACEM	ENTS
PNPP No. 9308 F	As re Rev. 9/11/00	quired by the Prov	ISIONS OF IT				NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 05/12/03	
	10 Center I	Road, Perry, Ohio	44081			Sheet 1 of	1
2. Plant:		ear Power Plant (F				Unit <u>1</u>	
	<u>10 Center i</u>	Road, Perry, Ohio	4081			01-015526-000, (Repair Org. P.O. N	
3. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear On	erating Con	noany PNPP	,	Type Code Symt	ol Stamn N
•••••••		enter Road, Perry,				Authorization No.	• —
						Expiration Date	9-26-05
4. Identificatio	n of System: 1M5	1 CombustibleGas	Control S	ystem		<u> </u>	
5. (a) Applicat	ble Construction Co	ode: ASME Sec III	. Subsecti	on NC-Cla	ss 2	,19 <u>74</u> Editi	on
		NAME/SECT	ION/DIVISIO	N/CLASS			
Winter	19 <u>75</u>	Addenda Code	Case(s) <u>N</u>	1-272 and 1	644-5		
(b) Constru	uction Code used for	or repairs, modifica	ations, or r	eplacemen	ts: 1974	W75	N/A
		•		-	Ed	tion Addenda	Code Case(s
(C) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	<u>1989</u> Edi	tion Addenda	N/A Code Case(s
(d) Applica	ble Edition of Secti	on XI Utilized for F	Repairs, M	odification,	or Replac	ements:	
	<u>N/A</u> 19 <u>N/A</u>	Cod	e Case(s)				
	Responsibilities E						
r	n of Components F		, or Replac	T	1	Repair,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other ID.	Year Built	Replacement, or Modification	Code Stamped
Piping System	Pullman Power Products	1M51	N/A	1M51- H1024	1985	Replacement	Yes
				<u> </u>			
	<u> </u>		<u></u>			<u> </u>	
C Description	of Work: Replace	Criginal Souther S	L	ber 29979	l	I Snubber Serial nur	 mber 39121
	or thomas Inchiave		Jonal Mull	1001 2001 3	HULLOW	CHUDYEL OCHALINI	
	cted: Hydrostatic			•	-		er- 🔲
Pressure <u>N</u>	<u>n</u> psi te	st Temperature <u>N</u>	<u>/A</u> (	legrees F	Code	Case(s) N/A	

	Remarks:
	NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING ECT 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 report is included on each sheet, and (3) each sheet is numbered and the number of sheets is record the front of this form.
1	CERTIFICATE OF COMPLIANCE <u>Lester J. Erbacher</u> , certify that to the best of my knowledge and belief the statements made in this report a
	orrect and the repair, modification or replacement of the items described above conforms to Section XI of the AS ode and to the National Board Inspection Code "NR" rules.
4	ational Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26, 20 05 ate May 5, 20 03 Signed FENOC-PNPP QE (name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	Thomas G. Laps,holding a valid commission issued by The National Board of Boiler ressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	nd employed by <u>Hartford Steam Boiler Ct.</u> of <u>Hartford, Conn.</u> h
	spected the repair, modification or replacement described in this report on May 5, 20 03 and state that the
	e best of my knowledge and belief, this repair, modification or replacement has been completed in accordance v
s	ection XI of the ASME Code and the National Board Inspection Code "NR" rules.
В	y signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
0	oncerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable
	ny manner for any personal injury, property damage or loss of any kind arising from or connected with this inspec
	ate May 5-, 20 03 Signed Thomas John Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (Inspector) (National Board (Include endorseme and jurisdiction, and no.)

•

•