

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

UNIT 2 CYCLE 8

NIS-1

"OWNER'S REPORT FOR INSERVICE INSPECTION"

TABLE OF CONTENTS

•

.

, , ,

* * ·

r,

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602,

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

APPENDIX I FORM NIS-1 OWNER'S REPORT

APPENDIX II SCOPE AND INTRODUCTION

SCOPE INTRODUCTION

APPENDIX III ISI SUMMARY

EXAMINATION SUMMARY ASME CODE CASES UNIT 2 INTERVAL STATUS PERSONNEL AND EQUIPMENT CERTIFICATIONS

APPENDIX IV EXAMINATION LIMITATIONS

METHOD OF CALCULATION OF LIMITATIONS EXAMINATION LIMITATIONS

APPENDIX V EXAMINATION PLAN

EXAMINATION PLAN OF CLASS 1 AND 2 COMPONENTS COMPONENT ISOMETRICS

APPENDIX VI SUMMARY OF INDICATIONS

SUMMARY OF INDICATIONS ADDITIONAL SAMPLES

ATTACHMENT 1 AUGMENTED EXAMINATION SUMMARY

SECTION 1: AUGMENTED SUMMARY SECTION 2: EXAMINATIONS PERFORMED DURING UNIT 2 CYCLE 8 (EXAMINATION SUMMARY)

9

۵ ۱ ۱

.

•

. . .

• •

r

OWNER: TENNESSEE VALLEY AUTHORITY
OFFICE OF NUCLEAR POWERPLANT: BROWNS FERRY NUCLEAR PLANT
P.O. BOX 20001101 MARKET STREETDECATUR, ALABAMA 35602CHATTANOOGA, TENNESSEE 37402,

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

<u>APPENDIX I</u>

NIS-1 OWNER'S REPORT

-

.

• • •

. .

· · ·

1. Owner <u>Tennessee</u>		1101 Market St. C Address of Owner		<u>7402</u>
2. Plant <u>Browns Fe</u>	erry Nuclear Plant. (Name and	P.O. Box 2000 D Address of Plant)	ecatur, AL. 3560	<u>)2</u>
3. Plant Unit <u>2</u>	_ 4. 0	wner Certificate of	Authorization 1	lot Required
5. Commercial Servi	ce Date 03/01/75	6. National Bo	ard Number for U	Init Not Requ
7. Components Inspe	ected:			
Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Pressure <u>Vessel</u> Various systems and components.	General Electric	Contract No. 67C31-90744	<u>N/A</u>	N/A
(<u>See Appendix V</u>)	TVA	N/A	<u>N/A</u>	<u>N/A</u>
The NIS-1 Owners R includes Appendices	-	-		
			<u></u>	۲.

FORM NIS-1 (back) 8. Examination Dates 11/24/94 9. Inspection Interval from <u>05/24/92</u> to <u>05/24/2001</u> 10. Applicable Editions of Section XI <u>1986</u> Addenda N/A 11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Appendix II, III, IV, and V. Examinations complete the first outage of the second period of the second inspection interval. 12. Abstract of Conditions Noted. . See Appendix II. III. IV. V. and VI. 13. Abstract of Corrective Measures Recommended and Taken. See Appendix VI We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI. Date June 5, 1996 Signed <u>Tennessee Valley Authority</u> Owner Certificate of Authorization No. Not Applicable Expiration Date Not Applicable CERTIFICATE OF INSERVICE 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 Tennessee and employed by HSBI & I of <u>Hartford. CT.</u>, have inspected the components described in this Owners' Report during the period <u>11/24/94</u> to <u>4/26/96</u>, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of the ASME Code Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. <u>*TN3135*</u> "*N*" "*Z*" "*S*" National Board, State, Province and No. Commissions Inspector's Signature une 6 19 96

00006 -

. .

,

. , • .

• •

· · ·

.

OWNER: TENNESSEE VALLEY AUTHORITYPLANT: BROWNS FERRY NUCLEAR PLANTOFFICE OF NUCLEAR POWERP.O. BOX 20001101 MARKET STREETDECATUR, ALABAMA 35602CHATTANOOGA, TENNESSEE 37402DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Inservice Inspection Introduction Summary

In accordance with paragraph IWA-6220 of Section XI of the ASME Boiler and Pressure Vessel Code Section XI 1986 Edition, the following information is provided.

- 1. Date of document completion: May 28, 1996
- 2. Name of owner and address of principal offices:

Tennessee Valley Authority Office Of Nuclear Power 1101 Market Street Chattanooga, Tennessee 37402-2801

3. Name and address of the nuclear generating plant:

Browns Ferry Nuclear Plant P.O. Box 2000 Decatur, Alabama 35602

4. Name or number assigned to the nuclear power unit by TVA:

Browns Ferry Nuclear Plant, Unit 2.

5. Commercial operation date of unit:

March 1, 1975

6. Numbers assigned to the components by the state:

No numbers assigned

7. National Board Number assigned to the components by the manufacturer:

No numbers assigned

OWNER: TENNESSEE VALLEY AUTHORITYPLANT: BROWNS FERRY NUCLEAR PLANTOFFICE OF NUCLEAR POWERP.O. BOX 20001101 MARKET STREETDECATUR, ALABAMA 35602CHATTANOOGA, TENNESSEE 37402DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

8. Names of the components and descriptions including size, capacity, material, location, and drawings to aid identification.

The Class 1 and 2 components examined as part of this Inservice inspection are listed in Appendix V.

9. Name and address of principal manufacturer and the principal contract which will identify the subcontractors/manufacturer's component identification numbers.

The majority of components examined were supplied by:

General Electric Corporation San Jose, Ca. Contract Number: 66C31-90744

- 10. Date of completion of the examinations: April 20, 1996
- 11. Name of ANII who witnessed or otherwise verified the examinations and his employer and business address:

George Deaton, Albert Ladd, and Bill Rice. The Hartford Steam Boiler Inspection and Insurance Company 200 Ashford Center North, Suite 300 Atlanta, Georgia 30338

12. Abstract of examinations, conditions observed, and corrective measures recommended or taken:

See Appendix III, IV, V and VI

13. Signature of ANII:

See NIS-1 form.

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT

 OFFICE OF NUCLEAR POWER
 P.O. BOX 2000

 1101 MARKET STREET
 DECATUR, ALABAMA 35602

 CHATTANOOGA, TENNESSEE 37402
 UNIT: TWO

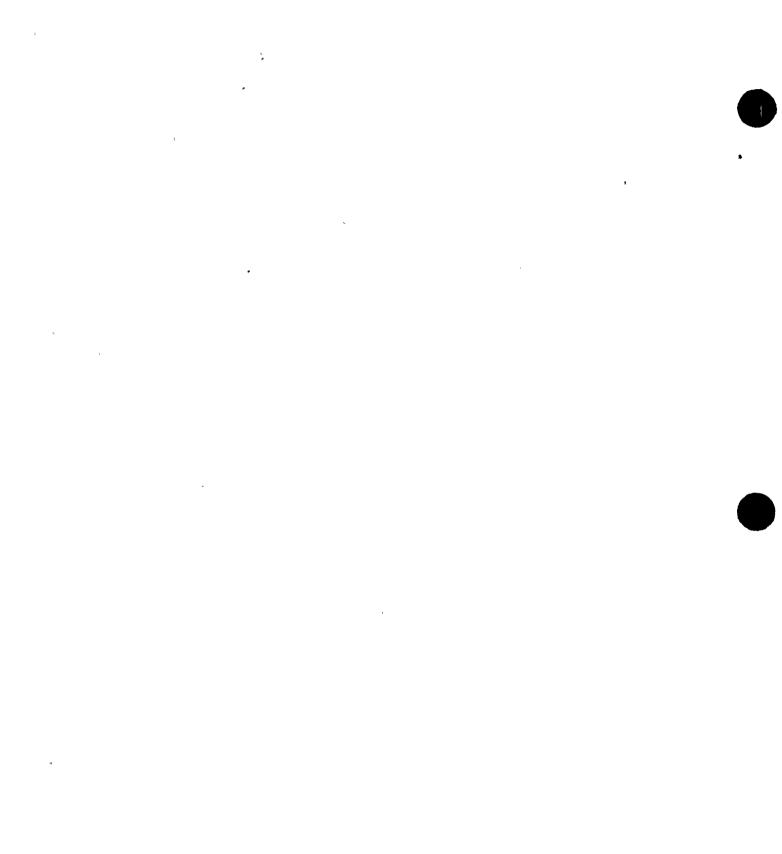
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

APPENDIX II

<u>SCOPE</u> <u>AND</u> INTRODUCTION s



i -

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT

 OFFICE OF NUCLEAR POWER
 P.O. BOX 2000

 1101 MARKET STREET
 DECATUR, ALABAMA 35602

 CHATTANOOGA, TENNESSEE 37402
 UNIT: TWO

 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.
 COMMERCIAL SERVICE DATE: MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.
 NOT REQUIRED.

Scope:

The scope of this appendix is to provide an overview of the Inservice inspections performed during the Unit 2/Cycle 8 outage on Class 1 and 2 components for ASME Section XI Code credit and other augmented examinations.

Introduction:

The examinations were performed during the Unit 2/Cycle 8 outage in accordance with implementing plant surveillance instruction 2-SI-4.6.G "Inservice Inspection Program Unit 2". 2-SI-4.6.G is organized to comply with the ISI NDE requirements of the 1986 Edition of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Division 1, No Addenda, Articles IWX-1000, IWX-2000, IWX-3000, and IWX-6000 in accordance with Title 10 Code of Federal Regulations (CFR) Part 50, 50.55a (g); to implement the Browns Ferry Nuclear Plant (BFN) Technical Specifications, Unit 2, Surveillance Requirement 4.6.G.; and to fulfill the requirements of SSP-6.10, ASME Section XI Inservice Inspection Program.

2-SI-4.6.G reflects the built-in limitations of the original plant design, geometry, construction, component materials and the current technology or state-of-the-art nondestructive examination techniques. This SI specifies the methods to be used and provides schedule tables from which specific items were scheduled for examination during this outage. Examinations were witnessed or verified by an Authorized Nuclear Inservice Inspector (ANII) and performed in accordance with the ASME Boiler and Pressure Vessel Code, Section XI.

The majority of examinations were performed by the TVA Inspection Services Organization (ISO) under the direction of Browns Ferry Inservice Inspection section. Augmentation of personnel was provided by ABB Combustion Engineering Nuclear Power NDE Services and General Electric Services.

An overview of ISI activities consists of the following:

- . ASME Section XI Class 1 and 2 Piping Examinations
- . ASME Section XI Class 1 and 2 Support Examinations
- . ASME Section XI Reactor Pressure In-Vessel Visual Examinations (IVVI)

4

• e

. .

.

•,

0 .

• •

, .

*

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT

 OFFICE OF NUCLEAR POWER
 P.O. BOX 2000

 1101 MARKET STREET
 DECATUR, ALABAMA 35602

 CHATTANOOGA, TENNESSEE 37402
 .

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

APPENDIX III

ISI SUMMARY

OWNER: TENNESSEE VALLEY AUTHORITY
OFFICE OF NUCLEAR POWERPLANT: BROWNS FERRY NUCLEAR PLANT
P.O. BOX 20001101 MARKET STREETP.O. BOX 2000CHATTANOOGA, TENNESSEE 37402DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Examination Summary:

The Unit 2, Cycle 8 Inservice Inspection (ISI) was the first scheduled refueling outage during the second inspection period of the second ASME Section XI 10-year inspection interval. A total of 106 visual, 61 ultrasonic, 10 liquid penetrant, and 84 magnetic particle examinations were performed in support of code credit components, including additional samples and reexaminations (see Appendix V, Examination Plan). A total of 16 inspection reports (IR's) were issued to document indications identified during the performance of the examinations. These IR's were evaluated by engineering and dispositioned (see Appendix VI, Summary of Indications).



Other examinations were performed in accordance with BFN's augmented inspection program and are included in Attachment 1 for information. A total of 24 visual, and 92 ultrasonic examinations were performed in accordance with the augmented program. Other examinations included In-vessel Visual Inspection (IVVI) on Unit 2 RPV internals, ultrasonic inspection of the core shroud and access manway covers, and ultrasonic examination of piping welds for IGSCC. OFFICE OF NUCLEAR POWER P.O. BOX 2000 1101 MARKET STREET DECATUR, ALABAMA 35602 CHATTANOOGA, TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

PLANT: BROWNS FERRY NUCLEAR PLANT

COMMERCIAL SERVICE DATE: MARCH 1, 1975

OWNER: TENNESSEE VALLEY AUTHORITY

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

ASME Code Cases

The following code cases were utilized for Inservice Inspection during the Unit 2/Cycle 8 outage:

N-307-1	Revised Ultrasonic Examination Volume for Class 1 Bolting, Table IWB-2500- 1, Examination Category B-G-1, When the Examinations Are Conducted From the Center-Drilled Hole, Section XI, Division 1
N-435-1	Alternative Examinations Requirements for Vessels With Wall Thickness 2 in. or Less, Section XI, Division 1
N-445	Use of Later Editions of SNT-TC-1A for Qualification of Nondestructive Examination Personnel, Section XI, Division 1.
N-457	Qualification Specimen Notch Location for Ultrasonic Examination of Bolts and Studs, Section XI, Division 1.
N-460	Alternative Examination Coverage for Class 1 and Class 2 Welds, Section XI, Division 1
N-461	Alternative Rules for Piping Calibration Block Thickness, Section XI, Division 1
N-491	Alternative Rules for Examination of Class 1, 2, 3, and MC Component Supports of Light-Water Cooled Power Plants, Section XI, Division 1.
N-524	Alternate Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping - Section XI, Division 1

Table 1 summarizes code credited examinations by category and percentages completed and demonstrates compliance with ASME Section XI percentage requirements.

OWNER: TENNESSEE VALLEY AUTHORITYPLANT: BROWNS FERRY NUCLEAR PLANTOFFICE OF NUCLEAR POWERP.O. BOX 20001101 MARKET STREETDECATUR, ALABAMA 35602CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

UNIT 2 INTERVAL STATUS

The BFN Unit 2 cycle 8 outage ISI examinations were performed during the first outage of the second period of the second interval. The component quantities examined were determined from 2-SI-4.6.G, Table A (Unit 2 Class 1 and 2 components) and from applicable BFN unit 2 relief requests. This NIS-1 report covers the Cycle 8 outage for Browns Ferry Unit 2. The following table summarizes the percentage of Code required examinations completed to date:

TABLE 1

ASME SECTION XI EXAMINATION SUMMARY FOR THE SECOND PERIOD OF THE SECOND TEN-YEAR INSPECTION INTERVAL

CATEGORY	% COMPLETE	<u>COMMENTS</u>
B-A	25%	Required and not deferred
<u>B-B</u>	<u>N/A</u>	
B-D	31 %	
B-E	0%	Deferred to system hydro
<u>B-F</u>	46 %	
<u>B-G-1</u>	22 %	
B-G-2		· · · · · · · · · · · · · · · · · · ·
В-Н	33 %	
<u>B-J</u>	49 %	
<u>B-K-1</u>	43 %	
B-L-1	<u>N/A</u>	
<u>B-L-2</u>	100 %	
<u>B-M-1</u>	N/A	\$
<u>B-M-2</u>	42 %	*
<u>B-N-1</u>	60 %	
<u>B-N-2</u>	0%	Deferral permissible
<u>B-O</u>	0%	Deferral permissible
B-P		Refer to pressure test program
B-Q	<u>N/A</u>	
<u>C-A</u>	50 %	
С-В	63 %	
<u>C-C</u>	60 %	•
<u>C-D</u>	<u>N/A</u>	
<u>C-F-1</u>	61_%	
<u>C-F-2</u>	65 %	
<u>C-G</u>	N/A	
С-Н	•	Refer to pressure test program
<u>F-A</u>	62%	·

OWNER: TENNESSEE VALLEY AUTHORITYPLANT: BROWNS FERRY NUCLEAR PLANTOFFICE OF NUCLEAR POWERP.O. BOX 20001101 MARKET STREETDECATUR, ALABAMA 35602CHATTANOOGA, TENNESSEE 37402A

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

PERSONNEL/EQUIPMENT CERTIFICATIONS:

42

NDE personnel certification records for TVA and contractor employees are maintained by TVA Nuclear Engineering Corporate, Inspection Services Organization (ISO). These records are maintained as permanent QA records for a forty year plant life. Any details or specifics regarding NDE certification records should be directed to the Inspection Services Organization at the Sequoyah Training Center in Soddy-Daisy, Tennessee at telephone number (423) 843-4026.

NDE equipment certification records are maintained by the TVA Inspection Services Organization (ISO) staff. Any details or specifics regarding NDE equipment certification records should be directed to ISO at the Sequoyah Training Center in Soddy Daisy, Tennessee at telephone number (423)843-4026.

00015

OWNER: TENNESSEE VALLEY AUTHORITYPLANT: BROWNS FERRY NUCLEAR PLANTOFFICE OF NUCLEAR POWERP.O. BOX 20001101 MARKET STREETDECATUR, ALABAMA 35602CHATTANOOGA, TENNESSEE 37402DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

APPENDIX IV EXAMINATION LIMITATIONS

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

METHOD OF CALCULATION OF LIMITATIONS

During the performance of Inservice Inspections, the ASME Section XI Code 1989 Edition, no addenda, requires the determination of the ultrasonic examination volume to establish the required beam path angles needed to maximize coverage and verify technique parameters. This information is necessary in those instances where there may be a reduction in the examination volume.

Surface examinations are typically conducted on 100% of the weld length plus a defined amount of base material on each side of the weld. Surface areas are calculated in those instances where there may be a reduction in the examination area.

The Code required ultrasonic examination volume or surface examination area for each type of piping weld or nozzle-to-vessel weld is depicted in the figures of IWB-2500 or IWC-2500. As depicted for piping welds, volume width generally constitutes the weld plus 1/4" on each side while volume thickness generally constitutes the lower 1/3 of the piping thickness for the length of the weld. As depicted, for nozzle-to-vessel welds, the volume width generally constitutes the weld plus 1/2t (ts/2) on each side of the weld while volume thickness generally constitutes the entire component thickness (i.e. full volume). The volume changes with variations in weld configuration (e.g. transition between different pipe thickness or nozzle-to-vessel configuration). Therefore, it is necessary to determine the required volume for each group of similar welds to allow setting of scanner limits for automated ultrasonic examinations and scan paths for manual ultrasonic examinations. Surface examination area is generally the weld plus 1/2-inch of base material on each side of the weld.

Paragraph IWA-2232 of the Code requires that the ultrasonic examination of piping systems be conducted in accordance with Appendix III of the Code. This same paragraph requires that the ultrasonic examination of nozzle-to-vessel welds be conducted in accordance with Article 4 of ASME Section V 1986, Edition as amended. Appendix III and Article 4 define, in part, the applicable examination methods (e.g. examination angles, scan directions) to be used during examination. Paragraphs IWA-2221 and IWA-2222 of the Code require that surface examinations be conducted in accordance with Article 6 or 7, as applicable, of ASME Section V 1989 Edition. OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT OFFICE OF NUCLEAR POWER P.O. BOX 2000 1101 MARKET STREET DECATUR, ALABAMA 35602 CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

TVA developed procedure N-GP-28 to provide a standardized methodology for calculation of Code coverage in those instances where configuration or other components cause an examination limitation. Components/welds with limitations were evaluated in terms of the feasibility of other NDE techniques or methods to increase coverage or for Code Case N-460 applicability.

EXAMINATION LIMITATIONS:

A tabulation of NDE examination limitations recorded during the Unit 2/Cycle 8 Inservice Inspection is contained in this Appendix.

The following items/components had less than 100% Code coverage achieved and TVA elected to use Code Case N-460 which states that when the entire examination volume or area cannot be examined due to interference by another component or part geometry, a reduction in examination coverage for Class 1 or Class 2 welds may be accepted provided the reduction in coverage for that weld is less than 10%.

SYSTEM	COMPONENT ID	METHOD	COVERAGE CALCULATED	<u>REPORT NO.</u>
RCIC	TRCIC-2-022	МТ	- 94%	R-0014
RCIC	TRCIC-2-022	UT	. 97.4%	R-0017
RHR	2-47B452H0058-IA	MT	91.3%	R-0019
RHR	2-47B452H0068-IA	MT	90.1%	R-0020
RHR	2-47B452H0067-IA	MT	91.3%	R-0030
HPCI	2-47B455S0019-IA	MT	92.0%	R-0066
HPCI	2-47B455H0069-IA	MT	90.1%	R-0067
RHR	2-47B452H0063-IA	MT	90.1%	R-0070
RHR	2-47B452H0064-IA	MT	90.1%	R-0071
RHR	2-47B452H0065-IA	МТ	90.1%	R-0072
RHR	TRHR-2-110	MT	91.2%	R-0089
RHR	TRHR-2-262	MT	93.0%	R-0090
RHR	TRHR-2-110	UT	91.5%	R-0098
RHR	TRHR-2-262	UT	90.4%	R-0108
RECIRC	KR-2-36	UT	96.0%	R-0311
MS	2-47B400S0015-IA	MT	91.1%	R-0314
MS	2-47B400S0021-IA	MT	91.6%	R-0315
MS	2-47B400S0009-IA	MT	91.1%	. R-0316
MS	2-47B400S0019-IA	MT	91.6%	R-0317
FW	GFW-2-03	UT	95.7%	R-0328
FW	GFW-2-06	UT	98.5%	R-0335



 OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER
 PLANT: BROWNS FERRY NUCLEAR PLANT

 OFFICE OF NUCLEAR POWER
 P.O. BOX 2000

 1101 MARKET STREET
 DECATUR, ALABAMA 35602

 CHATTANOOGA, TENNESSEE 37402
 DICATUR, ALABAMA 35602

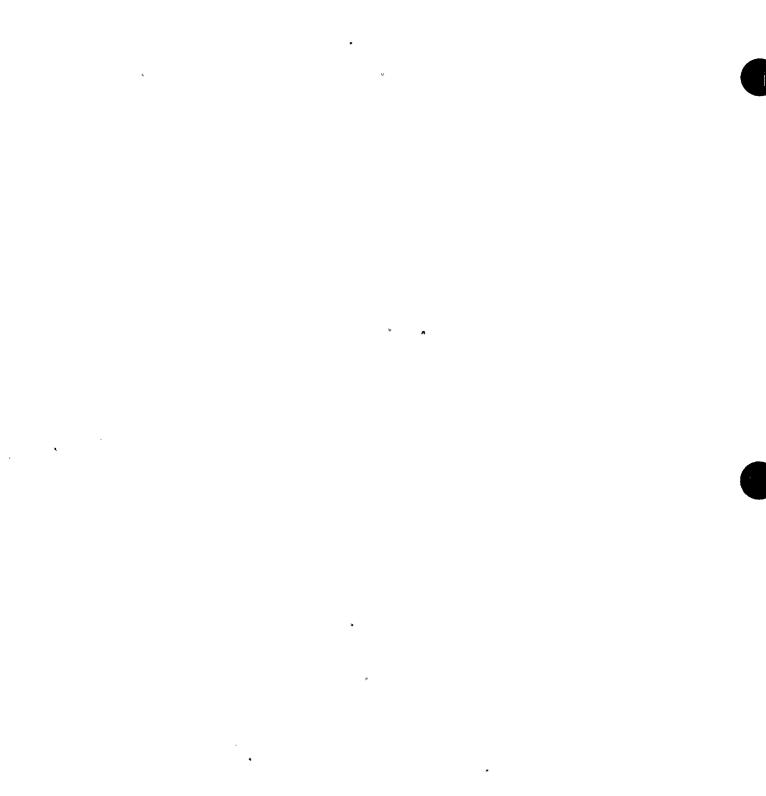
 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

 COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

The following items/components had examination limitations on NDE examinations outside those specified in Code Case N-460. The Inservice Inspection Program 2-SI-4.6.G will be revised to incorporate these limitations in the form of Requests for Relief (RFR). Program revisions, including Requests for Relief, will be submitted to the NRC.

SYSTEM	COMPONENT ID	COVERAGE CALCULATED	METHOD	<u>REPORT NO.</u>	RFR No.
RHR '	2-47B452-1341-IA	80%	МТ	R-0045	ISI-2-7
RHR	2-47B452-1330-IA	80%	MT	R-0046	ISI-2-7
HPCI	2-47B455R0024-IA	55%	MT	R-0063	ISI-2-7
RHR	DRHR-2-03	65%	UT	R-0182	ISI-2-4



.

F

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

APPENDIX V

EXAMINATION PLAN

۰

.

۰ • •

, , ,

.

. •

۰ ۰ OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

The following printout is known as an Outage ISI report designed to meet the reporting requirements of IWA-6000 of the ASME Section XI Code. This report contains Unit 2/Cycle 8 Inservice inspection data for Class 1 and Class 2 components which Section XI credit is taken. Attachment 1 contains a summary of Augmented examinations performed during Unit 2/Cycle 8 Outage. Essential unit and system files are contained herein as a reference to describe abbreviations and features in the printout. This information precedes the Outage ISI report.

Class 3 Inservice data and reports are contained in the Browns Ferry Inservice Inspection (ISI) Final Plant Report.



OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

<u>UNIT 2/CYCLE 8</u> ISI REPORT OF CLASS 1 AND CLASS 2 <u>COMPONENTS</u>

. .

/

. .

·

NUTEC		PRISIM
····· •	TENNESSEE VALLEY AUTHORITY	
	BROWNS FERRY NUCLEAR POWER PLANT - UN	11 2
	ISI DATA BASE	
	REFERENCE CLUSTER LISTING	***********
	DATA ELEHENT : EXREQ	* PAGE 19
		* REVISION 0000
		* DATE 05/13/96

REFERENCE KEY	DESCRIPTION

- A01-02 FIRST ADDITIONAL EXAM COMPONENT LISTING : A01-02 FIRST ADDITIONAL SAMPLE REQUIRED BY 1W7-2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A01-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R01-02 & INCLUDES ALL 1ST ADDITIONAL SAMPLE PIPING SUPPORTS
- A02-02 SECOND ADDITIONAL EXAM COMPONENT LISTING : A02-02 SECOND ADDITIONAL SAMPLE REQUIRED BY 1W7-2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 SECOND ADDITIONAL EXAM STATUS REPORT : A02-02 THIS PROGRAM CORESPONDS TO REPART PROGRAM R02-02 & INCLUDES ALL 2ND ADDITIONAL SAMPLE PIPING SUPPORTS
- A03-02 FIRST ADDITIONAL EXAM COMPONENT LISTING : A03-02 FIRST ADDITIONAL SAMPLE REQUIRED BY 1W7-2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A03-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R03-02 & INCLUDES ALL 3RD ADDITIONAL SAMPLE PIPING SUPPORTS
- A04-02 SECOND ADDITIONAL EXAM CONPONENT LISTING : A04-02 SECOND ADDITIONAL SAMPLE REQUIRED BY 147-2430 CATEGORY F-A ITEM F1.20A, B, & C, ALL; INTERVAL 02 SECOND ADDITIONAL EXAM STATUS REPORT : A04-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R04-02 & INCLUDES ALL 4TH ADDITIONAL SAMPLE PIPING SUPPORTS
- A05-02 FIRST ADDITIONAL EXAN CONPONENT LISTING : A05-02 FIRST ADDITIONAL SAMPLE REQUIRED BY 1WB-2430 CATEGORY B-F ITEM B5.10 INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A05-02 THIS PROGRAM_CORRESPONDS TO REPAIR PROGRAM R05-02

00023

. .

r

•

		DRICIN
NUTEC	•	PRISIM
	TENNESSEE VALLEY AUTHORITY	
	BROWNS FERRY NUCLEAR POWER PLANT - UN	IT 2
	ISI DATA BASE	
	REFERENCE CLUSTER LISTING	***********
	DATA ELEMENT : EXREQ	* PAGE 20
		* REVISION 0000
		* DATE 05/13/96

*	* DATE 05/13/96 *
*********	*********************

DESCRIPTION

A06-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A06-02
	FIRST ADDITIONAL SAMPLE REQUIRED BY IVB-2430
	CATEGORY B-G-2 ITEM B7.50 & B7.70 INTERVAL 02
	FIRST ADDITIONAL EXAM STATUS REPORT : A06-02
	THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R06-02
	1ST ADDITIONAL SAMPLE, BOLTING

REFERENCE KEY

- A07-02 FIRST ADDITIONAL EXAM COMPONENT LISTING : A07-02 FIRST ADDITIONAL SAMPLE REQUIRED BY IWB-2430 CATEGORY B-J ITEM B9.11, B9.21, B9.40 INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A07-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R07-02 1ST ADDITIONAL EXAMS FOR CLASS 1 PIPING
- A08-02 SECOND ADDITIONAL EXAM COMPONENT LISTING : A08-02 SECOND ADDITIONAL EXAM COMPONENT LISTING : A08-02 SECOND ADDITIONAL SAMPLE REQUIRED BY 1WB-2430 CATEGORY B-G-2 ITEM B7.50 & B7.70 INTERVAL 02 SECOND ADDITIONAL EXAM STATUS REPORT : A08-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R08-02 SECOND ADDITIONAL SAMPLE, BOLTING
- A09-02 SECOND ADDITIONAL EXAM COMPONENT LISTING : A09-02 SECOND ADDITIONAL SAMPLE REQUIRED BY IWB-2430 CATEGORY B-J ITEM B9.11, B9.21, B9.40 INTERVAL 02 SECOND ADDITIONAL EXAM STATUS REPORT : A09-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R09-02 2ND ADDITIONAL EXAMS FOR CLASS 1 PIPING
- A10-02 FIRST ADDITIONAL EXAM COMPONENT LISTING : A10-02 FIRST ADDITIONAL SAMPLE FOR INTEGRAL ATACHMENTS CATEGORY B-K-1,C-C,D-B, ITEMNO B10.10,C3.20,D2.20 INT. 02 FIRST ADDITIONAL EXAM STATUS REPORT : A10-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R10-02, INT. ATT.

了创作法。



\$

* NUTECH		PRISIM *
*	TENNESSEE VALLEY AUTHORITY	*
* BF	ROWNS FERRY NUCLEAR POWER PLANT - UN	11 2 *
*	ISI DATA BASE	*
*	REFERENCE CLUSTER LISTING	***********
*	DATA ELEHENT : EXREQ	* PAGE 21 *
*		* REVISION 0000 *
*	-	* DATE 05/13/96 *
************	*****************************	***************

REFERENCE KEY	DESCRIPTION
************	***************************************
A11-02	FIRST ADDITIONAL EXAN COMPONENT LISTING : A11-02
	FIRST ADDITIONAL SAMPLE REQUIRED BY IWB-2430
	CATEGORY F-A ITEM F1.30A, B, & C INTERVAL 02
	FIRST ADDITIONAL EXAM STATUS REPORT : A11-02
	THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R11-02
	FIRST ADDITIONAL SAMPLE OF CLASS 3 PIPING SUPPORTS
A12-02	SECOND ADDITIONAL EXAM COMPONENT LISTING : A12-02
	SECOND ADDITIONAL SAMPLE REQUIRED BY IWC-2430
	CATEGORY F-A ITEM F1.30A, B, & C INTERVAL 02
	SECOND ADDITIONAL EXAM STATUS REPORT : A12-02
	THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R12-02
	THE ABOVE INCLUDES CLASS 3 PIPING SUPPORTS
A13-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A13-02
	FIRST ADDITIONAL SAMPLE REQUIRED BY INC-2430
	CATEGORY B-F ITEM B5.20 INTERVAL 02
	FIRST ADDITIONAL EXAM STATUS REPORT : A13-02
	THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R13-02
A14-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A14-02
	FIRST ADDITIONAL SAMPLE REQUIRED BY INC-2430
	CATEGORY C-B ITEM C2.20 INTERVAL 02
	FIRST ADDITIONAL EXAM STATUS REPORT : A14-02
	THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R14-02
A15-02	1ST ADDITIONAL SAMPLE COMPONENT LISTING : A15-02
	ADDITIONAL SAMPLE REQUIRED BY IWA-5250
	CATEGORY B-G-2 ITEMNO 87.70 INTERVAL 02
	FIRST ADDITIONAL SAMPLE STATUS REPORT : A15-02
	NO 2ND ADD SAMPLE REQUIRED

OWNER: TENNESSLE VALLY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANI NUCLEAR POWER GROUP 1101 MARKET STREET CHAITANOOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 MATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

...

•

.

.

.

e e

1.2425

•

.

. . .

.

·

• •

a v ve "v v

•

NUTECH		PRISIM
	TENNESSEE VALLEY AUTHORITY	
	BROWNS FERRY NUCLEAR POWER PLANT - UN	17 2
	ISI DATA BASE	
	REFERENCE CLUSTER LISTING	************
	DATA ELEMENT : EXREQ	* PAGE 22
		* REVISION 0000
		* DATE 05/13/96

.

.

REFERENCE KEY	
B01-02	AUGMENTED EXAM COMPONENT LISTING : B01-02 BWR FEEDWATER NOZZLE AND CONTROL ROD DRIVE RETURN LINE NOZZLE EXAMS PER NUREG 0619 AUGMENTED EXAMINATION STATUS REPORT : B01-02
B02-02	AUGHENTED EXAM COMPONENT LISTING : 802-02 AUGHENTED EXAMINATION PER NUREG-0313, REV. 02 DETECTION OF INNERGRANULAR STRESS CORROSION CRACKING AUGHENTED EXAM STATUS REPORT : 802-02 GENERIC LETTER 88-01
B03-02	AUGMENTED EXAM COMPONENT LISTING : B03-02 AUGMENTED EXAMS PER IE BULLETIN 80-13 CRACKING OF CORE SPRAY SPARGERS AUGMENTED EXAMINATION STATUS REPORT : B03-02
804-02	AUGMENTED EXAM COMPONENT LISTING : B04-02 EXAM OF WELDS FOR PIPE WHIP SURVEILLANCE, SI 4.6.G.2 EXAMINE WELDS IN ACCORDANCE WITH SI 4.6.G.2 AUGMENTED EXAMINATION STATUS REPORT : B04-02
B05-02	AUGHENTED EXAM CONPONENT LISTING : B05-02 RPV SHELL WELDS EXAM CATEGORY B-A FOR CYCLE 06 EXAMINATIONS FOR NRC CONMITMENT R08 910927-826 AUGMENTED EXAMINATION STATUS REPORT : B05-02
B06-02	AUGHENTED EXAM COMPONENT LISTING : B06-02 RPV THERMAL SLEEVE COUPLING AUGMENTED EXAMINATIONS AUGMENTED EXAMINTIONS OF RPV THERMAL SLEEVES AUGMENTED EXAMINATION STATUS REPORT : B06-02
***********	******

OWNER: TENVESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOGGA TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975

\$

٠.

.

•

4

.

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

÷.,

•

		001010
* NUTECH		PRISIM
*	TENNESSEE VALLEY AUTHORITY	
•	BROWNS FERRY NUCLEAR POWER PLANT - UN	117 2
,	ISI DATA BASE	
,	REFERENCE CLUSTER LISTING	***********
	DATA ELEMENT : EXREQ	* PAGE 23
		* REVISION 0000
,	*	* DATE 05/13/96

.

REFERENCE KEY	DESCRIPTION
812-02	EXPANDED SAMPLE FOR IGSCC EXAMS: B12-02 AUGHENTED EXAMINATION PER NUREG-0313 EXPANDED SAMPLE DETECTION OF INNERGRANULAR STRESS CORROSION CRACKING AUGMENTED EXAMINATION STATUS REPORT B12-02 THIS REPORT IS FOR ADDITIONAL EXAMINATIONS REFERENCE B02-02
D01-02	AUGNENTED EXAM COMPONENT LISTING : D01-02 AUGMENTED EXAMS PER NRC INSPECTION REPORT 86-03 OPEN ITEM 86-03-03 FOR WELD DSRHR-2-5A AUGMENTED EXAMINATION STATUS REPORT : D01-02 SELF IMPOSED BY TVA; REF. L29 800925 984
002-02	AUGMENTED EXAM COMPONENT LISTING : D02-02 EXAMINATION OF INDICATION WITHIN THE RPV CLADDING SELF INPOSED EXAM OF RPV CLADDING FOR CYCLE 06, 07, & 08 AUGMENTED EXAMINATION STATUS REPORT : D02-02 REF: W10 880831 850, W10 880908 873, & B22 880920 022
D03-02	AUGHENTED EXAM COMPONENT LISTING : D03-02 AUGMENTED EXANS PER NRC CONMITMENT NCO 850264005 EXAMS OF WELDS KR-2-14, -36, -37, & -41 IN CYCLE 06 AUGMENTED EXAMINATION STATUS REPORT : D03-02 REF: RIMS L44 860311 803
D04-02	AUGHENTED EXAN COMPONENT LISTING : D04-02 HPCIS PUMP DISCHARGE SUPPORT EXAM FOLLOWING INJECTION HPCIS PUMP EXAMINATION, INTERVAL 02 AUGHENTED EXAMINATION STATUS REPORT : D04-02
D05-02	AUGMENTED EXAM CONPONENT LISTING : D05-02 AUGMENTED EXAMS PER ECN P5215 EXAMINE WELD GR-2-15(OL) IN CYCLES 06, 08, & 10 AUGMENTED EXAMINATION STATUS REPORT : D05-02
***********	***************************************

 OWNER:
 TENNESSEE VALLEY AUTHORITY
 PLANT:
 BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 PO. BOX 2000

 DIOTMARKET STREET
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 WATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

\$

,

....

~

	******	***	********	*****	**
* NUTS			P	RISIM	*
*	TENNESSEE VALLEY AUTHORITY				*
*	BROWNS FERRY NUCLEAR POWER PLANT - UNIT	2			*
*	ISI DATA BASE				*
*	REFERENCE CLUSTER LISTING	*	********	****	**
*	DATA ELEMENT : EXREQ	*	PAGE	24	*
*		*	REVISION	0000	*
*		*	DATE 05	/13/96	*
*******	*************	***	*******	*****	**

REFERENCE KEY	DESCRIPTION
	_======================================

- EX1-02 EXAMS NOT REQUIRED, FOR TRACKING PURPOSES ONLY : EX1-02 CLASS 2 WELDS, CATEGORY C-F-2, ITEM. NO. N/A WELDS < 3/8" NOMINAL WALL THICKNESS WELDS EXEMPT FROM EXAMINATION STATUS REPORT : EX1-02 WELDS SCHEDULED FOR TRACKING PURPOSES ONLY.
- R01-02 REPAIR/REPLACEMENT COMPONENT LISTING : R01-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.20A, B, & C, ALL; INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R01-02 THIS PROGRAM CORRESPONDS TO 1ST ADD SAMPLE PROGRAM A01-02 FOR ALL PIPING SUPPORTS, REPAIR OF 1ST ADDITIONAL SAMPLE
- R02-02 REPAIR/REPLACEMENT COMPONENT LISTING : R02-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R02-02 THIS PROGRAM CORRESPONDS TO 2ND ADD SAMPLE PROGRAM A02-02 FOR ALL PIPING SUPPORTS, REPAIR OF 2ND ADDITIONAL SAMPLE
- R03-02 REPAIR/REPLACEMENT COMPONENT LISTING : R03-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.20A, B, & C, ALL; INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R03-01 THIS PROGRAM CORRESPONDS TO 3RD ADD SAMPLE PROGRAM A03-02 FOR ALL PIPING SUPPORTS, REPAIR OF 3RD ADDITIONAL SAMPLE
- R04-02 REPAIR/REPLACEMENT COMPONENT LISTING : R04-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.?0A, B, & C, ALL; INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R04-02 THIS PROGRAM CORRESPONDS TO 4TH ADD SAMPLE PROGRAM R04-02 FOR ALL PIPING SUPPORTS, REPAIR OF 4TH ADDITIONAL SAMPLE

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

COMMER	UNIT: TWO	OWNER
COMMERICAL SERVICE DATE: MARCH 1, 1975		OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402
	ICATE OI	PLANT:
-	CERTIFICATE OF AUTHORIZATION: NOT REQUIRED	PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABANAJ 35602

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

******** PRISIN NUTECH TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 ISI DATA BASE ******** REFERENCE CLUSTER LISTING * PAGE 25 * DATA ELEMENT : EXREQ * REVISION 0000 * * DATE 05/13/96 *

REFERENCE KEY	DESCRIPTION

- REPAIR/REPLACEMENT COMPONENT LISTING : R05-02 R05-02 PRESERVICE REQUIRED IN ACCORDANCE WITH INB-2200/2430 CATEGORY B-F ITEN 85.10 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R05-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A05-02
- REPAIR/REPLACEMENT COMPONENT LISTING : R06-02 R06-02 PRESERVICE REQUIRED IN ACCORDANCE WITH 1WB-2200/2430 CATEGORY B-G-2 ITEM B7.50 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R06-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A06-02

REPAIR/REPLACEMENT COMPONENT LISTING : R07-02 R07-02 PRESERVICE REQUIRED IN ACCORDANCE WITH 1WB-2200/2430 CATEGORY B-J ITEH B9.11, B9.21, B9.40 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R07-02 THIS PROGRAM CORRESPONDS TO 1ST ADD. SAMPLE PROGRAM A07-02 CLASS 1 WELDS

- R08-02 REPAIR/REPLACEMENT COMPONENT LISTING : R08-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWB-2200/2430 INTERVAL 02 CATEGORY B-G-2 ITEN B7.70 REPAIR/REPLACEMENT STATUS REPORT : R08-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A08-02
- REPAIR/REPLACEMENT COMPONENT LISTING : R09-02 R09-02 PRESERVICE REQUIRED IN ACCORDANCE WITH 1WB-2200/2430 CATEGORY B-J ITEN 89.11, 89.21, 89.40 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R09-02 THIS PROGRAM CORRESPONDS TO 2ND ADD. SAMPLE PROGRAM A09-02

62000

. т

-

•

• -

*****	*******	********
NUTEG		PRISIM
•	TENNESSEE VALLEY AUTHORITY	
*	BROWNS FERRY NUCLEAR POWER PLANT - UNI	12
*	ISI DATA BASE	
•	REFERENCE CLUSTER LISTING	*********
r	DATA ELEMENT : EXREQ	* PAGE 26
,		* REVISION 0000
•	•	* DATE 05/13/96

REFERENCE KEY	DESCRIPTION

- REPAIR/REPLACEMENT COMPONENT LISTING : R10-02 R10-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWB-2200/2430 CATEGORY B-K-1, C-C, D-B ITEMNO B10.10, C3.20, D2.20 INT. 02 REPAIR/REPLACEMENT, STATUS REPORT : R10-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A10-02 INTEGRAL ATTACHMENTS
- **REPAIR/REPLACEMENT COMPONENT LISTING : R11-02** R11-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEN F1.30A, B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R11-02 THIS PROGRAM CORRESPONDS TO 1ST ADD SAMPLE PROGRAM A11-02 CLASS 3 PIPING SUPPORTS, REPAIR OF 1ST ADDITIONAL SAMPLE
- **REPAIR/REPLACEMENT COMPONENT LISTING : R12-02** R12-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEN F1.30A, B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R12-02 THIS PROGRAM CORRESPONDS TO 2ND ADD SAMPLE PROGRAM A12-02 CLASS 3 PIPING SUPPORTS, REPAIR OF 2ND ADDITIONAL SAMPLE
- REPAIR/REPLACEMENT COMPONENT LISTING : R13-02 R13-02 PRESERVICE REQUIRED IN ACCORDANCE WITH 1WB-2200/2430 CATEGORY 8-F ITEM 85.20 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R13-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A13-02
- REPAIR/REPLACEMENT COMPONENT LISTING : R14-02 R14-02 PRESERVICE REQUIRED IN ACCORDANCE WITH INC-2000/2430 CATEGORY C-B ITEN C2.20 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R14-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A14-02

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 VALLEY AUTHORITY TENNESSEE 37402 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: NWNS FERRY NUCLEAR PLANT BOX 2000 ATUA, ALABAMA 35502

4

UNIT:

W

OWNER

•

· · . •

,

· · •

* NUTECH		PRISIN *
*	TENNESSEE VALLEY AUTHORITY	*
*	BROWNS FERRY NUCLEAR POWER PLANT - UNIT	12 *
*	ISI DATA BASE	*
*	REFERENCE CLUSTER LISTING	****
*	DATA ELEMENT : EXREG	* PAGE 27 *
*		* REVISION 0000 *
*		* DATE 05/13/96 *
********	*******************************	*********

REFERENCE KEY	DESCRIPTION
***********	***************************************

- REPAIR/REPLACEMENT COMPONENT, LISTING : R15-02 R15-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.10A, B, & C INTERVAL 02 **REPAIR/REPLACEMENT STATUS REPORT : R15-02** THIS PROGRAM HAS NO ADDITIONAL SAMPLE PSI OF MODIFIED/REPAIRED CLASS 1 PIPING SUPPORTS
- **REPAIR/REPLACEMENT COMPONENT LISTING : R16-02** R16-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.20A, B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R16-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE PSI OF MODIFIED/REPAIRED CLASS 2 PIPING SUPPORTS
- R17-02 REPAIR/REPLACEMENT COMPONENT LISTING": R17-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.30A, B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R17-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE PSI OF HODIFIED/REPAIRED CLASS 3 PIPING SUPPORTS
- **REPAIR/REPLACEMENT COMPONENT LISTING : R18-02** R18-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.40B, & C INTERVAL 02 **REPAIR/REPLACEMENT STATUS REPORT : R18-02** THIS PROGRAM HAS NO ADDITIONAL SAMPLE PSI OF MODIFIED/REPAIRED SUPPORTS OTHER THAN PIPING
- **REPAIR/REPLACEMENT COMPONENT LISTING : R19-02** R19-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWB-2200/2430 CATEGORY B-G-2 ITEN 87.50/87.60/87.70/87.80 INTERVAL 02 **REPAIR/REPLACEMENT STATUS REPORT : R19-02** PIPING/PUMP/VALVE BOLTS, STUDS, & NUTS <= 2 INCHES; PSI EXAM & CRD HOUSING BOLTS

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

UNIT:

******	************	
NUTECH		PRISIM *
•	TENNESSEE VALLEY AUTHORITY	•
•	BROWNS FERRY NUCLEAR POWER PLANT - UN	17 2 *
,	ISI DATA BASE	•
r	REFERENCE CLUSTER LISTING	************
,	DATA ELEMENT : EXREQ	* PAGE 28 *
,		* REVISION 0000 *
		* DATE 05/13/96 *
	********************************	*************

REFERENCE KEY	
R20-02	REPAIR/REPLACEMENT COMPONENT LISTING : R20-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWA-2200/2430 CATEGORY B-N-2 ITEM B12.50 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R20-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE
R21-02	REPAIR/REPLACEMENT COMPONENT LISTING : R21-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWB-2200/2430 CATERGORY B-G-1 ITEM B6.30/B6.50/B6.200 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R21-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE PUMP NUTS, WASHERS, ETC
R22-02	REPAIR/REPLACEMENT COMPONENT LISTING : R22-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWB-2200/2430 CATEGORY B-F ITEM B5.10 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R22-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE
R23-02	REPAIR/REPLACEMENT COMPONENT LISTING : R23-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWA-2200/2430 CATEGORY B-J ITEM B9.11/B9.21/B9.40 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R23-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE
R24-02	REPAIR/REPLACEMENT COMPONENT LISTING : R24-02 PRESERVICE EXAMS OF COMPONENTS FOR PUMPS B-L-2 CATEGORY B-L-2 ITEMNO B12.20 INTERVAL 02 REPAIR/REPLACEMENT EXAMINATION STATUS REPORT : R24-02

Burnes.

۰.

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWN SFERRY NUCLEAR POWER CROUP NUCLEAR POWER CROUP CHATTAWOOGA, TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED 'COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

.

\$

• •

*****	*********	******
* NUTECH		PRISIN *
*	TENNESSEE VALLEY AUTHORITY	*
*	BROWNS FERRY NUCLEAR POWER PLANT - UNIT	2 *
*	ISI DATA BASE	*
*	REFERENCE CLUSTER LISTING	******
*	DATA ELEMENT : EXREQ	* PAGE 29 *
*		* REVISION 0000 *
*	•	* DATE 05/13/96 *
*********	**********	*******

REFERENCE KEY	DESCRIPTION
2383223322222222	8======================================
R25-02	REPAIR/REPLACEMENT COMPONENT LISTING : R25-02 PRESERVICE EXAMINATION OF C-F-1 COMPONENTS CATEGORY C-F-1, C-F-2 ITEMNO C5.7??? INTERVAL 02 REPAIR/REPLACEMENT EXAM STATUS REPORT : R25-02
R26-02	REPAIR/REPLACEMENT COMPONENT LISTING : R26-02 PRESERVICE EXAMINATION OF INTERGAL ATTACHMENTS CATEGORY B-K-1, C-C, INTERGAL ATTACHMENTS REPAIR/REPLACEMENT STATUS REPORT : R26-02 PSI EXAMS
R27-02	REPAIR/REPLACEMENT COMPONENT LISTING : R27-02 PRESERVICE EXAMS PERFORMED TO ENSURE CODE ACCEPTANCE CATEGORY B-P ITEMNO B15.10 LEAKAGE TEST REPAIR/REPLACEMENT STATUS REPORT R27-02 PSI EXAMS
s01-02	SUCCESSIVE EXAM COMPONENT LISTING : S01-01 EXAMS PERFORMED ON COMPONENTS IN SUCCESSIVE/ALTERNATING CYCS SUCCESSIVE EXAMS DUE TO PREVIOUS FINDINGS SUCCESSIVE EXAMINATION STATUS REPORT : S01-01
v01-02	VOLUNTARY EXAN COMPONENT LISTING : V01-02 VOLUNTARY EXAMINATION OF COMPONENTS' EXAMINATIONS OF COMPONENTS IN CONJUNCTION WITH 86E-02 VOLUNTARY EXAMINATION COMPONENT LISTING : V01-02

VOLUNTARY EXAM COMPONENT LISTING : V02-02 VOLUNTARY EXAMINATION OF LONG SEAMS VERIFICATION EXAMINATION OF COMPONENTS IN CONJUNCTION WITH 86E-02 VOLUNTARY EXAMINATION COMPONENT LISTING : V02-02 LOCATE CLASS 1 OR 2 L/W IN'SCTING CIRC WELDS. FOR AUSTEN. SS USE UT TO LOCATE LW'S EACH SIDE OF CW.FOR CS OR ALLOY USE VT V02-02 BACKED UP BY ACID ETCH, IF FOUND ADD TO SCAN PLAN; (86E-02)

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

з¢

UNIT:

÷,

\$

. 4

· · ·

*****	**********************************	********************
* NUTES		PRISIM
•	TENNESSEE VALLEY AUTHORITY	
,	BROWNS FERRY NUCLEAR POWER PLANT - UN	17 2
	ISI DATA BASE	
	REFERENCE CLUSTER LISTING	***
	DATA ELEMENT : EXREG	* PAGE 30
		* REVISION 0000
		* DATE 05/13/96

REFERENCE KEY	DESCRIPTION

- V03-02 VOLUNTARY EXAM COMPONENT LISTING : V03-02 VOLUNTARY EXAMINATION OF COMPONENTS EXAMINATION OF COMPONENTS IN COMPLIANCE WITH 86E-02 VOLUNTARY EXAMINATION COMPONENT LISTING : V03-02 VERIFICATION OF L/S INTERSECTING CIRC. WELDS EXAMINED FOR CODE CREDIT IN THE FIRST INSPECTION PERIOD.
- 75S-02 COMPONENT LISTING AND ISI 10 YEAR PLAN : 75S-02 ASHE SECTION XI, 1974 WITH SUMMER-1975 EDITION 1975 EDITION OF ASHE SECTION XI, BFN PER 940085 INSERVICE INSPECTION PROGRAM STATUS REPORT : 75S-02
- 86E-02 COMPONENT LISTING AND ISI 10 YEAR PLAN : 86E-02 ASME SECTION XI, 1986 EDITION, SECOND INTERVAL THE 1986 EDITION ASME SECTION XI, INTERVAL 02 ONLY INSERVICE INSPECTION PROGRAM STATUS : 86E-02

UNIT: NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 OWNER: TENNESSEE VALLEY AUTHORITY 정 1101 MARKET STHEET CHATTANOOGA, TENNESSEE 37402 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: BROWNS FERRY NUCLEAN PLANT DECATUR, ALABAMA 35602

\$

A....

ECH				TENNESSEE \	ALLEY A	UTHORIT	Y		$\mathbf{}$		PRISI	l .
-			BROWNS	FERRY NUCLE			- UNIT 2	2				
					DATA BA		050007				*******	*********
				TAGE EXAMIN OUIREMENT							* PAGE	1
				ERVAL : 02							* REVISIO	W 0000 W
			••••				-				* DATE	
******	********	*********	********	********	******	*******	*******	******	******	******	*********	*********
		-										
			SS CORE S		1 • 075							
130	ACTRIC NO	10EK 3 1	31-0103-0 3	acci . Vi								
		*******	********	********	******	*******	*******	******	******	******	*********	********
**********	********											
*************			CYAMINATION	C41	C41	EVAN		EVAN	SEC VI		INDICATION	INDICATIO
			EXAMINATION								INDICATION TYPE	INDICATIO RESOLUTIO
			EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE	EXAM RESULT			INDICATION TYPE	
KUMBER DE	SCRIPT.	TEN NO.			STD.	TYPE		RESULT				INDICATIO RESOLUTIO

:

:

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

Ś

7

.

•

NUTECH				TENNESSEE V FERRY NUCLI		ER PLANT		2			PRISI	4 4 4
			EXAN RE	JTAGE EXAMI OUIREMENT IERVAL : 02	NATION I	RESULTS	CLE : 08	******	******	*****	* PAGE * REVISIO * DATE	
	SYSTEM ISONETRIC N		CSS CORE S ISI-0103-C S		H - 075	*****	*******	*****	*****	******	******	
EATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.		CAL. STD.	EXAM TYPE	EXAM DATE	EXAH RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
				REPORT NO.	SID. ====== BF-79 BF-79	TYPE ===== PT UT-45 UT-45L		RESULT TTTTTT PASS PASS PASS				RESOLUTION
EATURE NUMBER CS-2-10 CS-2-11	DESCRIPT.	ITEM NO.	REPORT NO. 	REPORT NO.	STD. ====== BF-79 BF-79 BF-79 BF-79	TYPE PT UT-45 UT-45L UT-60L PT UT-45	DATE 19960311 19960312 19960312	RESULT PASS PASS PASS PASS PASS PASS	CREDIT TES YES YES YES		TYPE GEOMETRIC	

OWNER- TENNESSEE VALLEY AUTHORITY PLANT: EROWASS FERRY NUCLEAR PLANT NUCLEAR POWENGEDUP 1101 MARKET STREE CHATTANOOGA TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMMER FOR UNIT: HOT RECUIRED

n.

\$

•*

•

.

/

۵

`

NUTECH			BROWNS	TENNESSEE		ER PLAN		2		,	PRISI	•
			N 1200	ISI JTAGE EXAMI			PEPORT				*******	**********
			EXAM RE	EQUIREHENT IERVAL : 02	: 86E-0		CLE : 08				* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC N		CSS CORE S ISI-0271-C S		H - 075							1
GATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.		CAL. STD.	EXAM TYPE	EXAN DATE	EXAM RESULT	SEC XI F CREDIT F		INDICATION TYPE	INDICATION RESOLUTION
CS-2-406	PIPE -VALVE	B-F B5.130		C00000082 C00000083			19960326 19960329 19960329	PASS	YES YES YES			
	VALVE	B-F B5,130	R00000194 R00000243	C00000082	8F-75	PT UT-45	19960326 19960329		YES YES		GEONETRIC	NON-RELEVANT

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED. COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED⁹ OWNER: TENNESSEE YNLEFY AUTHORITY NUCLEAR POWIA GHOUP 1101 MANKET STAGHOUP CHATTANOCCA, TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

\$

...

, ¹

.

4

...

•

· ,

n . .

•

			BROWNS	IENNESSEE FERRY NUCL ISI IAGE EXAMI	EAR POW DATA B	ER PLAN ASE	T - UNIT 2	2		r	PRISI	•
" # *			EXAN REG	WIREMENT ERVAL : 02	: 86E-0		CLE : 08	*****	******	******	* PAGE * REVISIO * DATE	
	SYSTEM		SS CORE SI		H - 075							
•												
FEATURE NUMBER	COMPONENT	CATGORY/	EXAMINATION REPORT NO. 1	CAL.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATIO RESOLUTIO

OWNER: ICNDESSEE VALLEY AUTHORITY PLANT: BROYCRS EERRY NUCLEAR PLANT NUCLEAT FORET GROUP INTANAVOGA TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

1

4. ¹

•

.

.•

NUTECH			TEI BROWNS FEI		EAR POW	ER PLANT		2			PRISI	ч
• • •			POST OUTA EXAM REQU INTER	GE EXAMI	: 86E-0	RESULTS	LE : 08				* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC N		ECWS EMERGENC ISI-0368-C SHE		ENT COO	LING WA1	ER SYSTE	1 - 067	*****	******	**********	*********
EATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO. RE			EXAM TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
-378205\$0055	RIG HGR	F-A F1.30A	R0000006			VT-3	19951205	PASS	YES			
)-37B205S0056	RIG HGR	F-A F1.30A	R0000005			VT-3	19951205	PASS	YES			
-378205s0064	RIGHGR2	F-A F1.30B	R0000008			VT-3	19951205	PASS	YES			
-31820330004												

•

12

.

 OWNER:
 TERNESSEE VALLEY AUTHORITY
 PLANT:
 BROWAS FERRY NUCLEAR PLANT

 NUCLEAR FOURT GROUP
 PO. 803 2003

 100 MARKET STREET
 DECATUR, ALBANA 35802

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 MATIONAL BOARD NUMBER FOR UNIT: HOT REQUIRED

ş

.

*

4

..

NUTECH				LEAR POH	ER PLAN	T - UNIT	2			PRISI	н
****	*******	*******	POST OUTAGE EXAM EXAM REQUIREMENT INTERVAL : 0	: 86E-0		CLE : 08	******	******	******	* PAGE * REVISI * DATE	6 DN 0000 05/09/96
	SYSTEM ISOMETRIC N		EECWS EMERGENCY EQUIP ISI-0368-C SHEET : 03		LING WA	TER SYSTE	H - 067	******	-	******	******
EATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION CAL. REPORT NO. REPORT NO		EXAM TYPE	EXAN DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATIO RESOLUTIO
-37B205S0071	RIG HGR	F-A F1.30B	R0000009		vt-3	19951205	PASS	YES			

OWNER: TE-MAX:SOLE VALLEY AUTHORITY PLANT: BROWANS ZEARY NUCLEAR PLANT NACCULINA INVERI GROUP 1101 MARKET STREET CHATTANOOGA TENNESSEE 37402 UNIT: THYO CERTIFICATE OF AUTHORIZATION: MOT REQUIRED COMMERICAL SERVICE DATE: NARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

ţ,

.

•

NUTECH				TENNESSEE FERRY NUCL ISI		ER PLANT		2			PRISI	M
	******	*******	EXAM RE	TAGE EXAMI DUIREMENT ERVAL : 02	: 86E-0		LE : 08	******	******	******	******** * PAGE * REVISI * DATE	7 ON 0000 05/09/96
	SYSTEM ISOMETRIC NU		EECWS EMERGE		ENT COO	LING WAT	IER SYSTE	4 - 067	******	******	******	*******
EATURE NUMBER			EXAMINATION REPORT NO.	REPORT NO.		EXAM TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATI RESOLUTI
****************	DESCRIPT.		REPORT NO.	REPORT NO.	STD.	TYPE		RESULT				RESOLUTI
-478451H0008-IA -478451H0012-IA	DESCRIPT.	ITEN NO.	REPORT NO.	REPORT NO.	STD.	TYPE ====== VT-3	DATE	RESULT	CREDIT			RESOLUTI
EATURE NUMBER -478451H0008-IA -478451H0012-IA -478451R0008-IA	UESCRIPT.	1ТЕМ NO. D-B D2.20 D-B	REPORT NO. 1 R00000120	REPORT NO.	STD.	TYPE VT-3 VT-3	DATE 19960209	RESULT PASS PASS	CREDIT			RESOLUTI

•

 OWNER:
 TENNESSEE VALLEY AUTHORITY
 PLANT:
 BROWERS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 DECATURA 2000

 1101
 MARKET STREET
 DECATURA 2000

 1101
 MARKET STREET
 ST402

 CHATTANOOCA, TENNESSEE 37402
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

\$

.4

.

.

.

NUTECH			BROWNS POST OL EXAM RE	TENNESSEE FERRY NUCL ISI ITAGE EXAMI OUIREMENT ERVAL : 02	EAR POW DATA B NATION : 86E-0	ER PLANI ASE RESULTS	REPORT				PRISI * PAGE * REVISI * DATE	8 8 0000 M
, , ,	SYSTEM ISOMETRIC N		ECWS EMERGE		ENT COO	LING WAT	IER SYSTE	4 - 067	******	******	*********	*******
LATURE NUNBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.	REPORT NO.		EXAN TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATIO RESOLUTIO
478451s0232-1A	IVA	D-8 D2.20	R00000133			v t- 3	19960214	PASS	YES			
-478451s0233-1A	IWA Î	D-B D2.20	R00000134			VT-3	19960214	PASS	YES			
-47B451S0234-IA	IWA	D-B D2.20	R00000137			VT-3	19960214	PASS	YES			
-478451s0235-1A	IWA	D-B D2.20	R00000129			VT-3	19960212	PASS	YES			
-478451s0237-1Å	IWA	D-B D2.20	R00000130			VT-3	19960212	PASS	YES			
-478451s0290	RIG HGR	F-A F1.30B	R00000169			VT-3	19960226	PASS	YES			

•

.

.

OWNER: TENNESSEE VALLEY AUTHORITY HUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOOGA TENNESSEE 37402

UNIT:

W

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

PLANT: BROWAS FERRY NUCLEAR PLANT P.O. 80X 2000 DECATUR, ALABAMA 35602

ł

... ۰.

.

COMMERICAL SERVICE DATE: MARCH 1. 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00042

.¥

.

NUTECH			TENNESSEE BROWNS FERRY NUCL		ER PLAN		2		,	PRISI	ſ
			POST OUTAGE EXAMI			REPORT				*******	*********
			EXAM REQUIREMENT INTERVAL : 02		2 CYC ERIOD :	CLE : 08 2				* PAGE * REVISIO * DATE (
· · ·	SYSTEM ISOMETRIC N		EECWS ENERGENCY EQUIPH ISI-0368-C SHEET : 11	ENT COO	LING WAT	TER SYSTE	H - 067	*****	*****	-	********
EATURE NUMBER			EXAMINATION CAL. REPORT NO. REPORT NO.		EXAM TYPE	EXAM DATE	EXAN RESULT	SEC XI CREDIT	REQST.	INDICATION TYPE	INDICATION RESOLUTION
1-478451s0267-1A	IWA	D-B D2.20	R00000131		VT-3	19960212	PASS	YES			
•478451s0309•1A	IWA	D-B D2.20	R00000135		VT-3	19960214	PASS	YES			
I-478451S0310-IA	IWA	D-B D2.20	R00000136		VT-3	19960214	PASS	YES			
1-478451s0311-IA	IWA	D-B D2.20	R00000138		VT-3	19960214	PASS	YES	-		-
1-47845150511-14											

.

OWNER: TENNESSEE VALLEY AUTHORITY 100 MARKET STREET CHATTANOOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 MATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

4

..

و - م - م

* NUTECH				TENNESSEE FERRY NUCL		ER PLANT		2			PRISI	4
• • •			EXAM RE	TAGE EXAMI DUIREMENT ERVAL : 02	NATION : 86E-0	RESULTS	CLE : 08				* PAGE * REVISIO * DATE	
* * *	SYSTEM ISOMETRIC N		EECWS EMERGE ISI-0368-C S		ENT COO	LING WAT	TER SYSTE	4 - 067	******	******	*****	******
FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.		CAL. STD.	EXAN TYPE	EXAN DATE	EXAN RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATIO RESOLUTIO
FEATURE NUMBER						TYPE		RESULT				
1-47B451R0039	DESCRIPT.	ITEN NO.	REPORT NO.			TYPE	DATE	RESULT	CREDIT			
	DESCRIPT.	ITEN NO.	REPORT NO.			TYPE VT-3 VT-3	DATE 19960223	RESULT PASS PASS	CREDIT			

ø

.

4

.

¥

۴.

OWNER: TEANESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWE GROUP CHATTANOOGA, TEANESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

•

.

÷

NUTECH	•		TENNESSEE BROWNS FERRY NUCL	EAR POW	ER PLANT		2			PRISI	I
			ISI POST OUTAGE EXAMI EXAM REQUIREMENT INTERVAL : OZ	: 86E-0	RESULTS	:LE : 08				* PAGE * REVISIO * DATE (
	SYSTEM ISOMETRIC N		ECWS EMERGENCY EQUIPH ISI-0368-C SHEET : 13	ENT COO	LING WA1	IER SYSTEI	4 - 067	*****		*****	******
FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION CAL. REPORT NO. REPORT NO.		EXAN TYPE	EXAM DATE		SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
1-47B451H0017	RIG HGR	F-A F1.30B	R00000123		VT-3	19960208	PASS	YES			
1-478451R0013	RIG HGR	F-A F1.30B	R00000122		VT-3	19960209	PASS	YES			
1-478451S0408-IA	IWA	D-8 D2.20	R00000121	•	VT-3	19960209	PASS	YES			
			R00000125		VT-3	19960208		YES			

 OWNER:
 TENNESSEE VALLEY AUTHORITY
 PLANT:
 BROWRS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 DO. BOX 2000
 DO. BOX 2000

 1101 MARKET STREET
 DECATUR, ALASAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

\$

4

.

, •

.

۰ ۲

×

·

. .

NUTECH			BROWNS Post ou Exam re	TENNESSEE FERRY NUCLI ISI TAGE EXAMI DUIREMENT ERVAL : 02	EAR POWE DATA BANATION F 86E-02	ER PLANT ASE RESULTS	- UNIT A REPORT CLE : 08	2		•	PRISI * PAGE * REVISIO * DATE	12 DN 0000
	SYSTEM		ECWS ENERGE		ENT COOI	LING WA1	ER SYSTE	4 - 067	******	******	***********	**********
EATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE	EXAM RESULT			INDICATION TYPE	INDICATION RESOLUTION
I-47B451S0169-IA	IVA	D-B D2.20	R00000165			VT-3	19960223	PASS	YES			
-478451S0357-1A	IWA	D-B	R00000132			VT-3	19960212	2249	YES			

•

 DWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 PO. BOX 2000.

 1101 MARKET STREET
 DECATUR. ALABAMA 35602

 CHATTANOGA, TENNESSEE 37402
 DECATUR. ALABAMA 35602

 UNIT: TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE: MARCH 1, 1975
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

•

\$

÷

4

•

. `

*

2

•

? й ¥

NUTECH			BROWNS I Post out Exam reg	TENNESSEE N FERRY NUCLI ISI TAGE EXAMII DUIREMENT ERVAL : 02	EAR POWE DATA B/ NATION F 86E-02	ER PLANT ASE RESULTS	- UNIT 2 REPORT	2			PRISI ********* * PAGE * REVISIC * DATE (13 DN 0000
	SYSTEM ISOMETRIC NU		ECWS EMERGEI ISI-0368-C SI		ENT COOI	LING WAT	ER SYSTE	4 - 067	*****	******	********	*****
			EXAMINATION REPORT NO. 1			EXAM TYPE	EXAM DATE	EXAN RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATI RESOLUTI
-478451S0049-1A	IWA	D-B D2.20	R00000128			VT-3	19960209	PASS	YES			
-47B451S0055	RIG HGR	F-A F1.30B	R00000127			vī-3	19960209	PASS	YES			

•

÷

٩

• • OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 KATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

5 -

.

.*

۸ ۲

*

÷

NUTECH			BROWNS	TENNESSEE				2			PRISI	I
•				ISI	DATA B	ASE		-				
				JTAGE EXAMII EQUIREMENT			REPORT				* PAGE	14
				IERVAL : 02		ERICO :		******	******	*****	* REVISIO * DATE (0000 K
	SYSTEM			ATER SYSTEM	- 003							4
,	ISOMETRIC NI	JMBER :	ISI-0269-C S	SHEET : U1								
		CATCODY /			CAL.	EXAM	EXAM	EXAN	SEC 11	051 155	INDICATION	INDICATIO
EATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.	REPORT NO.	STD.	TYPE	DATE	RESULT	CREDIT	REQST.	TYPE	RESOLUTIO
FW-2-01	VALVE	B-J	R00000305		~	MT	19960406	PASS	YES			
	-PIPE	89.11	R00000329	C00000152	BF-108	UT-45	19960409	PASS	YES		GEOMETRIC GEOMETRIC	NON-RELEVA
			R00000329	C00000153	BF-108	UT-60	19960409	PASS	YES		GEOMETRIC	NON-RELEVA
											INCLUSION	EVALUATED,
											INCLUSION	EVALUATED,
											GEOMETRIC	NON-RELEVA
											INCLUSION	EVALUATED,
			R00000329	C00000154	BF-108	UT-70	19960409	PASS	YES		INCLUSION	EVALUATED
FW-2-03	PENPIPE	8-J	R00000306			MT	19960406	PASS	YES			
	-VALVE	B9.11		C00000151	BF-108	UT-45	19960409	PASS	YES		GEOMETRIC	NON-RELEVA
											GEONETRIC BEAM REDIREC	NON-RELEVA
FW-2-05	PIPE	В-J	R00000307			HT	19960406	PASS	YES			
	-ELBOW	B9.11	R00000333	C00000163	BF-108	UT-45	19960411	PASS	YES		GEOMETRIC	NON-RELEVA
			00000333	C00000164	DE-108	117-60	10060611	DASS	YES		GEOMETRIC	NON-RELEVA
			-	00000104	BF- 100		19900411	FAJJ	163		GEOMETRIC	NON-RELEVA
FW-2-06	PIPE	B-J	R00000262			HT	19960402		YES			
	-VALVE	B9.11	R00000335	C00000168	BF-108	UT-45	19960409	PASS	YES		GEOMETRIC	NON-RELEVA
FW-2-14	PIPE	B-J	R00000244			нт	19960401	PASS	YES			
-	-SAFEEND	B9.11	R00000270			UT-45	19960402	PASS	YES		GEOMETRIC	KON-RELEVA
			R00000270	C0000090	BF-75	UT-60	19960402	PASS	YES		INCLUSION	EVALUATED
F¥-2-18	VALVE	B-J	R00000269			MT	19960401	PASS	YES			

 OWNER: TENNESSEE VALLEY AUTHORITY HUCLEAR POWER GROUP TTO MARKET STREET CHATTANOOGA, TENNESSEE 37402
 PLANT: DO, BOX 2000 DECATUR, ALABAMA 35602

 UNIT: TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE: MARCH 1, 1975

 NATIONAL BOARD HUMBER FOR UNIT: NOT REQUIRED

\$

~

.

.

æ

•

ę

.

..

.

0004.8

• NUTECH				TENNESSEE		LITHOR 11	Y				PRISI	4
			BROUNS	FERRY NUCLI				2	-		1.1.041	•
•			OROWAS		DATA B		•••••	-				
•			POST OL	JTAGE EXANI			REPORT				*******	*********
>			EXAM RE	QUIREMENT	: 86E-02	2 CYC	LE : 08				* PAGE	15
•				ERVAL : 02		ERICO :	2				* REVISIO	0000 M
9											* DATE (05/09/96
**************************************	**********	*******	*********	*********	******	*******	********	******	*******	******	***********	**********
1 8					- 007							
	SYSTEM ISOMETRIC NU		WS FEEDW	-	- 005							
*	ISOMETRIC AC	MOEK :	131-0209-0									
· • • • • • • • • • • • • • • • • • • •	********	*******	**********	********	******	******	******	******	******	*****	**********	********
	COMPONENT	CATGORY/	EXAMINATION	CAL.	CAL.	EXAM	EXAM	EXAN			INDICATION	INDICATION
FEATURE NUMBER			REPORT NO.			TYPE	DATE		CREDIT		TYPE	RESOLUTION
**********************	*********	********	2222222222	********	77777 <u>7</u>		22222222	XX8 XX	******	222823	=================	
GFW-2-18	VALVE	B-J	R00000288	C00000095	BF-108	UT-45	19960402	PASS	YES			
	-RED TEE	B9.11	•									
KFW-2-15	ELBOW	B-J	R00000245			HT	19960401	PASS	YES			
	-PIPE	B9.11	R00000271	C00000091	8F-75	UT-45	19960402	PASS	YES		GEOMETRIC	NON-RELEVAL
											GEOMETRIC	NON-RELEVAL
		-									GEOMETRIC	NON-RELEVAL
			R00000271	C00000092	BF-75	UT-60	19960402	PASS	YES		GEOMETRIC	NON-RELEVAN
											GEOMETRIC	NON-RELEVAN
KFW-2-21	TEE	B-J	R00000261			HT	19960401	PASS	YES			
	-PIPE	B9.11		C00000096	BF-35				YES			
				C00000097					YES	-	GEOMETRIC	NON-RELEVAN
KFW-2-23	ELBOW	B-J	R00000308			HT	19960406		YES			
	-PIPE	B9.11	R00000331	C00000159	BF-108	UT-45	19960411	PASS	YES		GEOMETRIC	NON-RELEVA
			00000774	00000140	05.100	117.40	10060711	0400	YES		GEOMETRIC	NON-RELEVAN
			R00000331	C00000160	81-100	01-00	19900411	PASS	162		GEOMETRIC	NUN-KELEVA
(FW-2-29	PIPE	B-J	R00000309			HT	19960329	PASS	YES			
	-RED TEE			C00000080	BF-99				YES		GEOMETRIC	NON-RELEVA
						•					GEOMETRIC	NON-RELEVAN
											GEOMETRIC	NON-RELEVA
											GEOMETRIC	NON-RELEVA
			R00000241						YES			

a

.

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP 1100 MARKET STREET CHATTANOOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

•

ĸ

00045

-

NUTECH				TENNESSEE	VALLEY	AUTHORIT	IY .			•	PRISI	1
r			BROWNS	FERRY NUCL			r - Unit 2	2				
•					DATA B						********	
				JTAGE EXAMI QUIREMENT			LE : 08				* PAGE	16
				ERVAL : 02		ERICO :					* REVISIO	
			••••				-				* DATE (
*********	**********		**********									
	SYSTEM		HPCIS HIGH P		OLANT I	NJECTIO	I SYSTEM	• 073				
	ISOMETRIC N	UMBER :	ISI-0128-C S	SHEET : UT								
**************	********	********	*********	********	******	*******	*******	******	******	******	***********	**********
	CONPONENT		EXAMINATION		CAL.	EXAN	EXAN	EXAN			INDICATION	INDICATION
EATURE NUMBER	DESCRIPT.		REPORT NO.			TYPE =====	DATE		CREDIT		TYPE	RESOLUTION
HPC1-2-087	ELBOW	C-F-2	R00000065			HT	19960117	PASS	YES			
	-PIPE	C5.51	R00000152	C00000051	BF-05	UT-45	19960223	PASS	YES		GEONETRIC	NON-RELEVAN
		•	R00000152	00000052	85.05	117-60	10060223	DACC	YES		GEONETRIC	NON-RELEVAN
-			K00000152	00000052	Dr-03	01-00	19900225	rnjj	103		GEOMETRIC	NON-RELEVAN
KPCI-2-104	ELBOW	C-F-2	R0000064			нт	19960116	PASS	YES			
	-PIPE	C5.51	R00000151	C0000050	BF-05	UT-45	19960223	PASS	YES			
HPCI-2-112	ELBOW	C-F-2	R00000060			MT	19960110	PASS	YES			
	-PIPE	C5.51		C00000047			19960223		YES			
			R00000148	C00000046	8F-05	UT-60	19960223	PASS	YES			
HPCI-2-127	PIPE	C-F-2	R0000061			HT -	19960110		YES		-	
	-TEE	C5.51		C00000049			19960223		YES		GEOMETRIC	NON-RELEVA
			R00000149	C0000048	BF-98	UT-60	19960223	PASS	YES		GEOMETRIC	NON-RELEVA
HPCI-2-132D	REDUCER	C-F-2	R00000058			MT	19960110	PASS	YES			
THPCI-2-132D	REDUCER -VALVE	C-F-2 C5.51	R00000147	C00000045	BF•77 BF•77	UT-45	19960110 19960221 19960221	PASS	YES YES YES			

÷

ې

.

.

OWNER: TERMESSEE VALLEY AUTHORITY PLANT: BROWNER: TERMESSEE VALLEY AUTHORITY PLANT: BROWNS FEARY NUCLEAR PLANT NUCLEAR POWER GROUP DO ALAWAST STREET CALUER, ALABAMA 35602 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REOURED COMMERICAL SERVICE DATE: MARCH 1, 1975 MATIONAL BOARD NUMBER FOR UNIT: NOT REOURED

н

\$

•

ы

4

-

00050

ŧ

NUTECH				TENNESSEE V FERRY NUCLE ISI		ER PLANT		2			PRIS	MIS		
				TAGE EXAMIN							******	*****	******	***
				OUIREMENT			LE : 08				* PAGE		17	
			INT	ERVAL : 02	PI	ERICO :	2				* REVIS * DATE			
*******	*********	*******	*********	********	******	******	******	******	******	******	*********	****	******	**
	SYSTEM						i systen ·							
	ISOMETRIC NU				******	******	******	******	******	******	*******	*****		**
	COMPONENT	HBER : 1		SHEET : 02	*******	EXAM TYPE ======	EXAM DATE	EXAM RESULT		RELIEF REQST.	INDICATION TYPE	• ••	NDICATI ESOLUTI	
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	SHEET : 02	*******	-		RESULT				• ••		
******	COMPONENT DESCRIPT.	HBER : 1	EXAMINATION REPORT NO.	SHEET : 02	CAL. SID.	TYPE	DATE	RESULT	CREDIT	REQST.		RI II III		IC ==

•

.

OWNER: TEHNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP ITO MARKET STREET CIATUR ALABAMA 35602 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REOUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REOUIRED

Ş

÷

...

4

,

A

.

×

.

NUTECH				TENNESSEE				2			PRISI	1 1
			POST OU EXAM RE		DATA BANATION I	ASE RESULTS	REPORT		`		* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC N		HPCIS HIGH F ISI-0128-C S		OLANT I	NJECTIO	I SYSTEN ·	• 073	******	******	*****	*****
EATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.		CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
¥CI-2-02	ELBOW •PIPE	C-F-2 C5.51	R00000216 R00000223	C0000071	BF-56	MT UT-45	19960327 19960327		YES YES		GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC	NON-RELEVAN NON-RELEVAN NON-RELEVAN NON-RELEVAN NON-RELEVAN
			R00000223	C0000072	8F-56	UT-60	19960327	PASS	YES		GEOMETRIC GEOMETRIC GEOMETRIC	NON-RELEVAN NON-RELEVAN NON-RELEVAN
											GEOMETRIC GEOMETRIC	NON-RELEV

OWNER: TEXINESSEE VALLEY AUTHORITY PLANT: BROWNS FERBY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOOSA TEXNESSEE 37402 UNIT: TV/O COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

.

\$

•

•

				TENNESSEE \	ALLEY	IITUODIT	Y				PRISI	4
NUTECH				FERRY NUCLE				2			r ki on	•
			Diconito		DATA B							
				ITAGE EXAMIN						•	******	********
				OUIREMENT							* PAGE	19
			INT	ERVAL : 02	PI	RIOD :	2				* REVISIO * DATE	
	SYSTEM ISOMETRIC N		HPCIS HIGH F ISI-0130-C S		DLANT II	*JECTIO	I SYSTEM -	• 073	******	******	****	******
EATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.			EXAM TYPE			SEC XI CREDIT		INDICATION TYPE	INDICATI RESOLUTI
-478455R0018-1A	IWA	C-C C3.20	R00000150			NT	19960223	PASS	YES			

÷

٠

.

 OWNER:
 TERVESSEE VALLEY AUTHORITY
 PLANT:
 BROWSS FERRY HUCLEAR PLANT

 NUCLEAR POWER GROUP
 PO. BOX 2000

 1101 MARKIT STREET
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION:: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 MATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

\$

.

--

..

.

.

.

NUTECH				TENNESSEE V FERRY NUCLI ISI		ER PLANT		2			PRISI	4	
			EXAN RE	TAGE EXAMI OUIREMENT ERVAL : 02	NATION F	RESULTS	LE : 08				* PAGE * REVISIO * DATE		
	SYSTEM ISOMETRIC NU		PCIS HIGH P SI-0130-C S		OLANT II	NJECTION	SYSTEN .	• 073	*******				
			**********	*********	*****	******	********	*******	*******	*******			***
EATURE NUMBER			EXAMINATION REPORT NO.		CAL. STD.	EXAM TYPE		EXAM RESULT		RELIEF REQST.	INDICATION TYPE	INDICAT RESOLUT	
EATURE NUMBER 	DESCRIPT.	ITEN NO.				TYPE		RESULT					

•

 OWNER:
 TEHNESSEE VALLEY AUTHORITY
 PLANT:
 BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 P.O. BOX 2000

 1101 MARKET STREET
 ST402

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

\$

••

.

.

æ

ŗ

..

00054

•

.

£"-1

5

÷

. .

NUTECH	•			TENNESSEE N	VALLEY	AUTHORIT	Y	•			PRISI	1
			BROWNS	FERRY NUCLI			- UNIT a	2				
•			DOST O	ISI ITAGE EXAMII	DATA B		PEDODT				*******	*********
				QUIREMENT							* PAGE	21
				ERVAL : 02		ERICO :					* REVISIO * DATE	
******	**********	*******	**********	********	******	*******	*******	******	******	******	~ UNIC (JJ/U9/90
	SYSTEM		HPCIS HIGH F		OLANT I	NJECTION	SYSTEN .	- 073				
1	ISOMETRIC NU	MSER :	ISI-0130-C S	SHEET : 03								
***********	********	*******	*******	*******	******	*******	******	******	*******	******	**********	********
					~~~	FVAN		EVAN			INDICATION	
			EXAMINATION REPORT NO.			EXAM TYPE	<b>.</b>		CREDIT		INDICATION TYPE	RESOLUTIO
CATURE MUNDER	2223322222		S335555555						212111			

•

•

.

 GWNER:
 TENNESSEE VALLEY AUTHORITY
 PLANT:
 BROWNS FERRY NUCLEAR PLANT

 INDLEAR POWER GROUP
 DO BOX 2000
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT;
 NOT REQUIRED

•

*

\$

.

-* -,

4

.

.

• •

* NUTECH 🔍			BROWNS F		EAR POW	ER PLANT ASE	- UNIT 3	2		•	PRISI	4
• • •			EXAN REC	AGE EXAMI DUIREMENT RVAL : 02	: 86E-0		LE : 08	******	*****	******	* PAGE * REVISIO * DATE (	
	SYSTEM ISOMETRIC M		HPCIS HIGH PR ISI-0273-C SH		OLANT II	NJECTIO	I SYSTEM	- 073"	******	******	*****	********
FEATURE NUMBER			EXAMINATION REPORT NO. F			EXAM TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
cv-73-45	VAL INT	B-N-2 B12.50	R00000240			VT-3	19960401	PASS	YES			
		B-G-2	R00000230			VT-1	19960401	DACC	YES			

k

1

.

**м** 

OWNER: TEMNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOGA, TENNESSEE 37402 UNIT: TV/O COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

5

.

. د · · ·

•

、 、

·

۰ ۲

-

NUTECH	<b>7</b>			TENNESSEE V	VALLEY /	UTHORIT	Y				PRISI	4
			BROWNS	FERRY NUCLI			UNIT 2	2				
			POST O	ISI ITAGE EXANII	DATA BA		REPORT				******	*******
				QUIREMENT							* PAGE -	23
		-	INI	ERVAL : 02	Pl	ERIOD :	2				* REVISIO * DATE	
**************	********	*******	**********	********	******	******	******	******	******	******	********	********
	SYSTEM		HPCIS HIGH F		OLANT II	NJECTION	SYSTEM	- 073				
	ISOMETRIC NU	MBEK :	151-02/5-0 :	500201 2 01								
************	*********	******	********	********	******	*******	*******	******	******	******	*********	********
	COMPONENT	CATGORY/	FYAMINATIO	CAL.	CAL.	EXAM	EXAM	EXAH	SEC XI	RELIEF	INDICATION	INDICATIO
			REPORT NO.			TYPE	DATE	RESULT			TYPE	RESOLUTIO
EATURE NUMBER	DESCRIPT.						*******	<b>232</b> 222	======			********
EATURE NUMBER	DESCRIPT.		*********	**********	323323							

OWREAL TEAVESSEE VALLEY AUTHORITY PLANT: BROWRS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP 1101 KARKET STREET CHATTANOOGA, TENVIESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975

Ş

.*

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

,

ية د . ت

Ţ



				TENNESSEE				2			PRISIN	1
•					DATA B	ASE		•			*******	********
, , ,			EXAM RE	QUIREMENT ERVAL : 02	: 86E-02		LE : 08	******	*****	******	* PAGE * REVISIO * DATE O	
	SYSTEM ISOMETRIC M			TEAN SYSTE	H - 001	******	*******	******	******	*****		******
FEATURE NUMBER			EXAMINATION REPORT NO.		CAL. SID.	EXAH TYPE	EXAM DATE	EXAH RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
2-47840050001-1A	IWA	с-с c3.20	R00000190			HT	19960326	PASS	YES			
	IWA	C-C C3.20	R00000191			HT	19960326	PASS	YES			
2-47840050002-1A						MT	19960326	PASS	YES			
2-47840050002-1A 2-47840050003-1A	IWA	C-C C3.20	R00000192									

•

76

COMMERICAL SERVICE DATE: MARCH 1, 1975 COMMERICAL SERVICE DATE: MARCH 1, 1975

{

...

4

•

.

.

.

CANONE ROUGER       DECORMINE       FIEL AGY       REFORM ROUGO 277 ROUGO 00326       RECONN ROUGO 277 COUDO 0148       HI       19960404       PASS       YES 19960405       Ses PASS       YES YES       GEOMETRIC GEOMETRIC       NON-REL NON-REL GEOMETRIC         CMS-2-003       PIPE BR CONN B9.31       B-J R000002326       R00000292 C00000149       HT       19960405       PASS       YES PSS       GEOMETRIC GEOMETRIC       NON-REL NON-REL         CMS-2-009       PIPE BR CONN B9.31       R00000296 R00000322       HT       19960405       PASS       YES PSS       POROSITY EVALUAT         CMS-2-093       BR CONN PIPE B9.11       B-J R000002325       R00000278 R00000325       MT       19960406 PASS PASS       YES YES       POROSITY EVALUAT         CMS-2-106       ELBOW       B-J R00000278       R00000278 R00000278       MT       19960405 PASS PASS       YES YES       POROSITY EVALUAT	NUTECH				TENNESSEE V				2			PRISI	1
EXAM REQUIREMENT:         866-02         CYCLE:         0.03         * PAGE         25           INTERVAL:         02         PERIOD:         2         * REVISION 0000         * DATE         05/09/96           SYSTEM         :         MSS         MAIN STEAM SYSTEM - 001													
INTERVAL : 02       PERIOD : 2       * REVISION 0000         INTERVAL : 02       PERIOD : 2       * REVISION 0000         * DATE       * REVISION 0000         * SYSTEM       : HSS MAIN STEAM SYSTEM = 001         ISOMETRIC NUMBER       : ISI-0222-C SHEET : 01         *       COMPONENT CATGORY/ EXAMINATION CAL.       CAL.         EATURE NUMBER       DESCRIPT. ITEM NO. REPORT NO. STD. TYPE       DATE         DESCRIPT.       ITEM NO. REPORT NO. REPORT NO. STD. TYPE       DATE         MS-2-04       PIPE       B-J       R00000326         PUD000326       C00000148       BF-104       UT-45       19960405 PASS       YES         MS-2-003       PIPE       B-J       R00000326       C00000146       BF-104       UT-60       19960405 PASS       YES         MS-2-009       PIPE       B-J       R00000326       C00000145       BF-104       UT-45       19960406 PASS       YES         MS-2-009       PIPE       B-J       R00000326       C00000145       BF-104       UT-45       19960406 PASS       YES         MS-2-009       PIPE       B-J       R00000322       C00000146       BF-104       UT-45       19960406 PASS       YES         MS-2-009       BR CONN B-31												******	**********
SYSTEM       : HSS       HAIN STEAN SYSTEM - 001         ISOMETRIC NUMBER       : HSS       HAIN STEAN SYSTEM - 001         EATE       OS/09/96         EATE       OS/09/96         EATE       OS/09/96         EATE       OS/09/96         EATE       OS/09/96         EATE       OS/09/96         EATE       OS         EATE       OS         EATURE NUMBER       :SSTEM         DESCRIPT.       ITEM NO. REPORT NO. REPORT NO. STD.         HS-2-04       PIPE         B-J       :R00000277         R00000326       C00000148         BF-104       UT-45         19960405       PASS         YES       GEOMETRIC         NS-2-003       PIPE         B-J       :R00000226         -BR CONN B9.31       :R00000226         R00000226       :C00000146         BF-104       UT-45         :BS-2-009       PIPE         B-J       :R00000226         :BS-2-009       PIPE         B-J       :R00000278         :BS-2-009       B-JE         B-J       :R00000278         :BS-2-009       :B-J													
ISONETRIC NUMBER : ISI-0222-C SHEET : 01         CONPONENT CATGORY/ EXAMINATION CAL. DESCRIPT. ITEM NO. REPORT NO. REPORT NO. STD. TYPE       CAL. STD.       EXAM DATE       EXAM RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RE				INI	ERVAL : UZ	1	: 100	۲					
ISOMETRIC NUMBER : ISI-0222-C SHEET : 01         COMPONENT CATGORY/ EXAMINATION CAL.       CAL.       EXAM       EXAM       EXAM       SEC XI RELIEF       INDICATION       INDICATION         EATURE NUMBER       DESCRIPT.       ITEM NO.       REPORT NO.       REPORT NO.       STD.       TYPE       DATE       RESULT CREDIT REGIT.       TYPE       RESOLU         MS-2-04       PIPE       B-J       R00000277       C0000148       BF-104       UT-45       19960405       PASS       YES       GEOMETRIC       NON-REL         MS-2-003       PIPE       B-J       R00000292       MT       19960405       PASS       YES       GEOMETRIC       NON-REL         MS-2-009       PIPE       B-J       R00000296       MT       19960405       PASS       YES       POROSITY       EVALUAT         NS-2-093       BR CONN       B-J       R00000278       MT       19960406       PASS       YES       POROSITY       EVALUAT         NS-2-006       ELBOM       B-J       R00000278       MT       19960406       PASS       YES       POROSITY       EVALUAT         NS-2-009       PIPE       B-J       R00000322       C00000161       BF-104       UT-45       19960406	************	*********	*******	*********	********	******	******	*******	******	******	******	**********	**********
ISONETRIC NUMBER : ISI-0222-C SHEET : 01         CONPONENT CATGORY/ EXAMINATION CAL. DESCRIPT. ITEM NO. REPORT NO. REPORT NO. STD. TYPE       CAL. STD.       EXAM DATE       EXAM RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RE	:	SYSTEM	: 1	ISS MAIN S	STEAM SYSTEM	4 - 001							
EATURE NUMBER         DESCRIPT.         ITEM NO.         REPORT NO.         STD.         TYPE         DATE         RESULT         CREDIT         TYPE         RESULT           MS-2-04         PIPE         B-J         R00000277         R00000326         C00000148         BF-104         UT-45         19960405         PASS         YES         GEOMETRIC         NON-REL           CMS-2-003         PIPE         B-J         R00000292         C00000145         BF-104         UT-45         19960405         PASS         YES         GEOMETRIC         NON-REL           CMS-2-003         PIPE         B-J         R00000292         C00000145         BF-104         UT-45         19960405         PASS         YES         GEOMETRIC         NON-REL           CMS-2-009         PIPE         B-J         R00000232         C00000161         BF-104         UT-45         19960406         PASS         YES         GEOMETRIC         NON-REL           CMS-2-009         PIPE         B-J         R00000232         C00000161         BF-104         UT-45         19960406         PASS         YES         POROSITY         EVALUAT           CMS-2-093         BR         CONN         B-J         R00000278         R00000325         C00000146													
EATURE NUMBER         DESCRIPT.         ITEM NO.         REPORT NO.         STD.         TYPE         DATE         RESULT         CREDIT         TYPE         RESULT           MS-2-04         PIPE         B-J         R00000277         R00000326         C00000148         BF-104         UT-45         19960405         PASS         YES         GEOMETRIC         NON-REL           CMS-2-003         PIPE         B-J         R00000292         C00000145         BF-104         UT-45         19960405         PASS         YES         GEOMETRIC         NON-REL           CMS-2-003         PIPE         B-J         R00000292         C00000145         BF-104         UT-45         19960405         PASS         YES         GEOMETRIC         NON-REL           CMS-2-009         PIPE         B-J         R00000232         C00000161         BF-104         UT-45         19960406         PASS         YES         GEOMETRIC         NON-REL           CMS-2-009         PIPE         B-J         R00000232         C00000161         BF-104         UT-45         19960406         PASS         YES         POROSITY         EVALUAT           CMS-2-093         BR         CONN         B-J         R00000278         R00000325         C00000146	***************	*********	*******	*********	*******	******	******	*******	******	******	******	*******	********
EATURE NUMBER         DESCRIPT.         ITEM NO.         REPORT NO.         STD.         TYPE         DATE         RESULT         CREDIT         TYPE         RESULT           MS-2-04         PIPE         B-J         R00000277         R00000326         C00000148         BF-104         UT-45         19960405         PASS         YES         GEOMETRIC         NON-REL           CMS-2-003         PIPE         B-J         R00000292         C00000145         BF-104         UT-45         19960405         PASS         YES         GEOMETRIC         NON-REL           CMS-2-003         PIPE         B-J         R00000292         C00000145         BF-104         UT-45         19960405         PASS         YES         GEOMETRIC         NON-REL           CMS-2-009         PIPE         B-J         R00000232         C00000161         BF-104         UT-45         19960406         PASS         YES         GEOMETRIC         NON-REL           CMS-2-009         PIPE         B-J         R00000232         C00000161         BF-104         UT-45         19960406         PASS         YES         POROSITY         EVALUAT           CMS-2-093         BR         CONN         B-J         R00000278         R00000325         C00000146								<b>6</b> 7474	<b>F</b> VA14	050 VI		INDICATION	
CHORC ROUCH       PIPE       B-J       R00000277       HI       19960404 PASS       YES         SHS-2-04       PIPE       B-J       R00000326       C00000148       BF-104       UT-60       19960405 PASS       YES         CMS-2-003       PIPE       B-J       R00000292       HT       19960405 PASS       YES       GEOMETRIC       NON-REL         CMS-2-003       PIPE       B-J       R00000292       HT       19960405 PASS       YES       GEOMETRIC       NON-REL         CMS-2-009       PIPE       B-J       R00000296       NT       19960405 PASS       YES       YES         CMS-2-009       PIPE       B-J       R00000296       NT       19960406 PASS       YES       YES         CMS-2-009       PIPE       B-J       R00000296       NT       19960405 PASS       YES       POROSITY       EVALUAT         R00000322       C00000161       BF-104       UT-60       19960406 PASS       YES       POROSITY       EVALUAT         CMS-2-093       BR CONN       B-J       R00000278       NT       19960405 PASS       YES       POROSITY       EVALUAT         CMS-2-106       ELBOW       B-J       R00000278       R00000278       NT       1													RESOLUTION
-ELBOW       B9.11       R00000326       C00000148       BF-104       UT-45       19960405       PASS       YES         WS-2-003       PIPE       B-J       R00000226       C00000149       BF-104       UT-45       19960405       PASS       YES         WS-2-003       PIPE       B-J       R00000292       NT       19960405       PASS       YES       GEOMETRIC       NON-REL         WS-2-009       PIPE       B-J       R00000326       C00000145       BF-104       UT-45       19960405       PASS       YES         WS-2-009       PIPE       B-J       R00000322       C00000161       BF-104       UT-45       19960406       PASS       YES       POROSITY       EVALUAT         WS-2-009       PIPE       B-J       R00000322       C00000161       BF-104       UT-45       19960406       PASS       YES       POROSITY       EVALUAT         WS-2-093       BR CONN       B-J       R00000278       C00000146       BF-30       UT-45       19960405       PASS       YES       POROSITY       EVALUAT         (MS-2-093       BR CONN       B-J       R00000325       C00000146       BF-30       UT-45       19960405       PASS       YES       POROSI													
-ELBOW       B9.11       R00000326       C00000148       BF-104       UT-45       19960405       PASS       YES         MS-2-003       PIPE       B-J       R00000226       C00000149       BF-104       UT-60       19960405       PASS       YES         MS-2-003       PIPE       B-J       R00000222       C00000144       BF-104       UT-45       19960405       PASS       YES         MS-2-009       PIPE       B-J       R00000226       C00000161       BF-104       UT-45       19960405       PASS       YES         MS-2-009       PIPE       B-J       R00000322       C00000161       BF-104       UT-45       19960406       PASS       YES         MS-2-009       PIPE       B-J       R00000322       C00000161       BF-104       UT-45       19960406       PASS       YES         MS-2-093       BR CONN       B-J       R00000278       C00000146       BF-30       UT-45       19960405       PASS       YES       POROSITY       EVALUAT         MS-2-106       ELBOW       B-J       R000002278       C00000146       BF-30       UT-45       19960405       PASS       YES       POROSITY       EVALUAT         MS-2-106       ELBOW	-	PIPE	8-1	R00000277			HT	19960404	PASS	YES			
IMS-2-003       PIPE       B-J       R00000292       HT       19960405       PASS       YES         IMS-2-003       PIPE       B-J       R00000324       C00000144       BF-104       UT-45       19960406       PASS       YES         IMS-2-009       PIPE       B-J       R00000324       C00000161       BF-104       UT-45       19960406       PASS       YES         IMS-2-009       PIPE       B-J       R00000322       C00000161       BF-104       UT-45       19960406       PASS       YES         IMS-2-009       PIPE       B-J       R00000322       C00000161       BF-104       UT-45       19960406       PASS       YES         IMS-2-093       BR CONN       B-J       R00000278       C00000146       BF-30       UT-45       19960405       PASS       YES         IMS-2-106       ELBOW       B-J       R00000278       C00000146       BF-30       UT-45       19960405       PASS       YES         IMS-2-106       ELBOW       B-J       R00000293       MT       19960405       PASS       YES					C00000148	BF-104	UT-45	19960405	PASS	YES			
MS-2-003       PIPE -BR CONN B9.31       B-J R00000324 R00000324       R00000292 c00000144 C00000145       HT BF-104 UT-45 BF-104 UT-60       19960405 PASS 19960406 PASS 19960406 PASS YES       YES YES         MS-2-009       PIPE -BR CONN B9.31       B-J R00000322       R00000296 R00000322       MT R00000322       19960405 PASS 19960406 PASS BF-104 UT-60       YES 19960406 PASS YES       POROSITY EVALUAT GEONETRIC       EVALUAT R00000322         MS-2-093       BR CONN -PIPE B9.11       B-J R00000278 R00000325       R00000146 C00000146       BF-30 BF-30       HT UT-45       19960404 PASS 19960405 PASS YES       YES POROSITY EVALUAT GEONETRIC         MS-2-106       ELBOM B-J R00000293       R00000293       MT 19960405 PASS YES       YES YES				R00000326	C00000149	BF-104	UT-60	19960405	PASS	YES			NON-RELEVAN
-BR CONN B9.31       R00000324       C00000144       BF-104 UT-45       19960406 PASS       YES         MS-2-009       PIPE       B-J       R00000324       C00000161       BF-104 UT-60       19960406 PASS       YES         MS-2-009       PIPE       B-J       R00000322       C00000161       BF-104 UT-45       19960406 PASS       YES       POROSITY       EVALUAT         -BR CONN       B9.31       R00000322       C00000161       BF-104 UT-45       19960406 PASS       YES       POROSITY       EVALUAT         -BR CONN       B9.31       R00000322       C00000161       BF-104 UT-45       19960406 PASS       YES       POROSITY       EVALUAT         -BR CONN       B-J       R00000325       C00000146       BF-30       UT-45       19960405 PASS       YES       POROSITY       EVALUAT         -MS-2-093       BR CONN       B-J       R00000278       C00000146       BF-30       UT-45       19960405 PASS       YES       POROSITY       EVALUAT         -NNS-2-106       ELBOW       B-J       R00000293       MT       19960405 PASS       YES       YES												GEOMETRIC	NON-RELEVAN
-BR CONN B9.31 R00000324 C00000145 BF-104 UT-45 19960406 PASS YES R00000324 C00000145 BF-104 UT-60 19960406 PASS YES -BR CONN B9.31 R0000032 C00000161 BF-104 UT-45 19960406 PASS YES -BR CONN B9.31 R0000032 C00000162 BF-104 UT-45 19960406 PASS YES POROSITY EVALUAT R00000322 C00000162 BF-104 UT-60 19960406 PASS YES POROSITY EVALUAT GEOMETRIC NON-REL MS-2-093 BR CONN B-J R00000278 C00000146 BF-30 UT-45 19960405 PASS YES -PIPE B9.11 R00000325 C00000146 BF-30 UT-45 19960405 PASS YES R00000325 C00000147 BF-30 UT-60 19960405 PASS YES R00000325 C00000147 BF-30 UT-60 19960405 PASS YES	MS-2-003	PIPE	B-J	R00000292			HT	19960405	PASS	YES			
MS-2-009       PIPE -BR CONN B9.31       R00000296 R00000332       HT       19960405 PASS 19960406 PASS       YES YES       POROSITY POROSITY       EVALUAT EVALUAT GEONETRIC         MS-2-093       BR CONN -PIPE       B-J B9.11       R00000278 R00000325       HT       19960404 PASS 19960404 PASS       YES YES       POROSITY EVALUAT GEONETRIC       EVALUAT NON-REL         MS-2-106       ELBOW       B-J       R00000293       HT       19960405 PASS 19960405 PASS       YES			B9.31										
-BR CONN B9.31 R00000332 C00000161 BF-104 UT-45 19960406 PASS YES POROSITY EVALUAT R00000332 C00000162 BF-104 UT-60 19960406 PASS YES POROSITY EVALUAT BR-2-093 BR CONN B-J R00000278 HT 19960404 PASS YES -PIPE B9.11 R00000325 C00000146 BF-30 UT-45 19960405 PASS YES R00000325 C00000147 BF-30 UT-60 19960405 PASS YES HS-2-106 ELBOW B-J R00000293 HT 19960405 PASS YES				R00000324	C00000145	BF-104	UT-60	19960406	PASS	YES			
-BR CONN B9.31 R00000322 C00000161 BF-104 UT-45 19960406 PASS YES POROSITY EVALUAT R00000322 C00000162 BF-104 UT-60 19960406 PASS YES POROSITY EVALUAT GEONETRIC NON-REL BR CONN B-J R00000278 MT 19960404 PASS YES -PIPE B9.11 R00000325 C00000146 BF-30 UT-45 19960405 PASS YES R00000325 C00000147 BF-30 UT-60 19960405 PASS YES (MS-2-106 ELBOW B-J R00000293 MT 19960405 PASS YES	MS-2-009	PIPE	B-J	R00000296			HT	19960405	PASS	YES			
MS-2-093         BR CONN         B-J         R00000278         NT         19960404         PASS         YES           HS-2-106         ELBOW         B-J         R00000293         NT         19960405         PASS         YES		-BR CONN	B9.31	R00000332	C00000161								EVALUATED,
CMS-2-093       BR CONN       B-J       R00000278       NT       19960404 PASS       YES         -PIPE       B9.11       R00000325       C00000146       BF-30       UT-45       19960405 PASS       YES         R00000325       C00000147       BF-30       UT-60       19960405 PASS       YES         CMS-2-106       ELBOW       B-J       R00000293       MT       19960405 PASS       YES				R00000332	C00000162	BF-104	UT-60	19960406	PASS	YES			EVALUATED,
-PIPE B9.11 R00000325 C00000146 BF-30 UT-45 19960405 PASS YES R00000325 C00000147 BF-30 UT-60 19960405 PASS YES HS-2-106 ELBOW B-J R00000293 MT 19960405 PASS YES		*				•						GEONETRIC	NON-RELEVA
-PIPE B9.11 R00000325 C00000146 BF-30 UT-45 19960405 PASS YES R00000325 C00000147 BF-30 UT-60 19960405 PASS YES HS-2-106 ELBOW B-J R00000293 MT 19960405 PASS YES	MS-2-093	BR CONN	B-J	R00000278			нt	19960404	PASS	YES			
HS-2-106 ELBOW B-J R00000293 MT 19960405 PASS YES		-PIPE	B9.11	R00000325									
				R00000325	C00000147	BF-30	UT-60	19960405	PASS	YES			
	HS-2-106	ELBOW	B-J	R00000293			HT	19960405	PASS	YES			
-PIPE B9.11 R00000327 C00000149 BF-104 UT-45 19960406 PASS YES INCLUSION EVALUAT					C00000149	BF-104		19960406	PASS	YES		INCLUSION	EVALUATED,

.

OWHER: TEXNESSEE MALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR PSAVEL GEOUP TIGLINARKET STREET CHAITMOOGA TENNESSEE 37402 UNIT: TWO CCMIMERICAL SERVICE DATE: MARCH 1, 1975

ş

•4

4

•

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00059

•

. •

• ٩

.

.

· · · · -

• · . • - -

*********		*******		*********			· <b>V</b>				PRISI	
NUTECH				TENNESSEE V				>	-		PRISI	•
		_	BROWNS		DATA B		UNIT I					
•		-	POST OL	JTAGE EXANII			REPORT		-		******	********
•				QUIREMENT			LE : 08				* PAGE	26
•			INI	ERVAL : 02	PI	ERICO :	2				* REVISIO	
*							*******		******	******	* DATE	)>/UY/YO
***************************************	**********	********										
•	SYSTEM	: 1	SS MAINS	STEAM SYSTEM	4 - 001							
	ISOMETRIC N											
*							*******					
***************	*********	********	*********	*********	******	*******	********	*******	******		***********	
	COMPONENT	CATGORY/	EXAMINATIO	CAL.	CAL.	EXAM	EXAM	EXAM	SEC XI	RELIEF	INDICATION	INDICATIO
FEATURE NUMBER	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD.	TYPE	DATE		CREDIT		TYPE	RESOLUTIO
*********************	*********	*******	*********			******	********	222223	======	23232X	***********	**********
KHS-2-038	TEE	B-J	R00000284			нт	19960403	2249	YES			
NH3-2-030	-PIPE	B9.11		c00000098	BF-104				YES			
(HS-2-041	BR CONN	B-J	R00000286			MT	19960403		YES			
	-PIPE	B9.11	R00000303	C00000122 C00000123					YES YES		GEOMETRIC	NON-RELEVAL
			R00000303	00000125	81-20	01-00	19900404	PASS	169		UEUNEIKIU	NON-RELEVA
KHS-2-051	PIPE	B-J	R00000287			MT	19960403	PASS	YES			
	-FLG	B9.11	R00000304	C00000122					YES		POROSITY	EVALUATED,
			R00000304	C00000123	8F-30	UT-60	19960404	PASS	YES			
KMS-2-052	HEADER	B-J	R00000294			MT	19960405	PASS	YES			
KH3-2-032	-CAP	B9.11		C00000141	BF-104				YES			
				••••								
KMS-2-062	TEE	8-J	R00000295			HT	19960405		YES			
	-PIPE	89.11	R00000334	C00000165	BF-104	UT-45	19960406	PASS	YES		INCLUSION POROSITY	EVALUATED,
											POROSITY	EVALUATED,
											GEOMETRIC	NON-RELEVA
											GEOMETRIC	NON-RELEVA
											GEOMETRIC	NON-RELEVAL
			R00000334	C00000166	BF-104	UT-45	19960410	PASS	YES		INCLUSION	EVALUATED,
											POROSITY	EVALUATED,
											POROSITY	EVALUATED,
											GEONETRIC	NON-RELEVA
											GEOMETRIC	KON-RELEVA
•			R00000334	C00000167	8F-104	UT-60	19960410	PASS	YES		GEOMETRIC	EVALUATED,
¢	•											
KMS-2-076	HEADER	8-J	R00000285			HT	19960403	PASS	YES			4

Commerical Service Date: March 1, 1975 Kathoval Edard Number for Unit: Not reduired ONNER: TENKESSEE VALLEY AUTRORITY NUCLEAR PONER GROUP THOI MARKET STREET CHALTANGOOL TENNESSEE 37402 UNIT: סעד CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: DEOWXS FERRY NUCLEAR PLANT PO, 80X 2000 DECATUR, ALABAMA 35602

~

.4

Ś

в

.

.* - +

ж

.

NUTECH	•		BROWNS		DATA B	ER PLANT Ase	r - UNIT 2	2			PRISI	1
nt - ⊅ ♦			EXAM RE	TAGE EXAMIN OUIREMENT : ERVAL : 02	: 86E-07	2 CYC	CLE : 08				* PAGE * REVISIO * DATE (	
	SYSTEM ISOMETRIC N		ASS MAIN S ISI-0222-C S		4 - 001	*******	********	******	******	******	***********	- -
FEATURE NUMBER			EXAMINATION REPORT NO.								INDICATION TYPE	INDICATIO
KHS-2-076	HEADER -	B-J B9.11	R00000291	c00000099	8F-104	UT-45	19960404	PASS	YES			

_ *

 OWNER:
 TEKNESSEE VALLEY AUTHORITY
 PLANT:
 BROWNS FERRY NUCLEAR PLANT

 NUCLEAR PONTR SPOLP
 DECATUR, ALABAMA 35602

 1101 MARKET STREET
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 KATIONAL BOARD HUMBER FOR UNIT:
 NOT REQUIRED

\$

...

00061

,

NUTECH				TENNESSEE FERRY NUCLI ISI		ER PLANI		2			PRIS	SIM	1 1 - 1
			EXAM RE	TAGE EXAMI QUIREMENT ERVAL : 02	: 86E-0		CLE : 08					SION 00	
	SYSTEN ISOMETRIC N		ISS HAIN S ISI-0279-C S		M - 001	*****		*****	******	*****	********	******	, , , ,
EATURE NUMBER		ITEM NO.	EXAMINATION REPORT NO.		CAL. STD.	EXAN TYPE	EXAM DATE		SEC XI CREDIT	REQST.	INDICATIO TYPE	RES	
-47840050009-1A	IWA	B-K-1 B10.10	R00000316			MT	19960405	PASS	YES	-			
-47840050010	M SNUB	F-A - F1.10C	R00000279			VT-3	19960404	PASS	YES				
-478400s0021-IA	IWA	B-K-1 B10.10	R00000315			NT	19960405	PASS	YES				-
2-47840050022	VSPRING	F-A F1.10C	R00000259			VT-3	19960402	PASS	YES		-		
-478400s0096	H SNUB	F-A F1.10C	R00000281		•	VT-3	19960404	PASS	YES				
-47840050201	M SNUB	F-A F1.10C	R00000251			VT-3	19960402	ENGR	YES		INC SETTIN	G SET A	ANAL OK

COMMERICAL SERVICE DATE: MARCH 1, 1975

MATICHAL BCARD NUMBER FOR UNIT: NOT REQUIRED

UNIT:

TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

PLANT: BROWNS FERRY NUCLEAR PLANT PO. BOX 2000 DECATUR, ALABAMA 35CO2

\$

.

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR PONER GROUP 1101 MARKET STREET CHALTANOOGA TENNESSEE 37402

.

..

00062

ı. • • 2 • 1 .

, • • , · · ·

NUTECH		*******	BROWNS POST OU EXAM RE INT	TENNESSEE FERRY NUCLI ISI TAGE EXAMII QUIREMENT ERVAL : 02	EAR POW DATA B NATION I 86E-0 P	ER PLANT ASE RESULTS 2 CYC ERIOD :	REPORT CLE : 08 2			-	PRISI * PAGE * REVISI * DATE	29 29 29
r		UMBER :	ISS MAINS	HEET : 02			*******	******	******	******	*****	*****
EATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.	REPORT NO.		EXAM TYPE	EXAM DATE	RESULT	CREDIT	REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B400S0014	VSPRING	F-A F1.10C	R00000255	-		VT-3	19960403	ENGR	YES		INC SETTING	SET ANAL OK
-478400s0015-1A	IWA	8-K-1 810.10	R00000314			HT	19960405	PASS	YES			
2-47B400S0018	VSPRING	F-A F1.10C	R00000280			VT-3	19960404	PASS	YES			
2-47840050019-IA	IWA	B-K-1 B10.10	R00000317			нt	19960405	PASS	YES			
2-47840050098-IA	IWA	B-K-1 B10.10	R00000263			нt	19960402	PASS	YES			
2-47840050099-1A	IWA	B-K-1 B10.10	R00000264			MT	19960402	PASS	YES			
2-47B400S0101-IA	IWA	B-K-1 B10.10	R00000265			нт	19960402	PASS	YES			
2-478400s0102	M SNUB	F-A F1.10C	R00000260	-		VT-3	19960402	PASS	YES			
2-47B400s0104-1A	IWA	B-K-1 B10.10	R00000267			HT	19960403	PASS	YES			
2-478400s0105-IA	IWA	B-K-1 B10.10	R00000268			MT	19960403	PASS	YES			
2-478400s0107	H SNUB	F-A F1.10C	R00000282			VT-3	19960404	PASS	YES		-	

^ .

*

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP CHATCANFORT FOWER STREET CHATCANFORD TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

÷

•*

1

••

•

٠

r

•

00063

NUTECH				TENNESSEE FERRY NUCL				,			PRISI	1	
			BRUWNS		DATA B		- 0111 4	-					
				JTAGE EXAMI							*******	*******	**
				OUIREMENT			LE : 08				* PAGE	30	
			IN1	TERVAL : 02	PI	ERIOD :	2				* REVISIO * DATE (		**
***************	*********	*******	***********	********	*******				-				
	SYSTEM		ISS HAINS		M - 001								
	ISOMETRIC NU	WREK : 1	151-02/9-0 :	SHEET I UZ									
************	*********	*******	**********	*********	******	******	*******	******	******	******	*********	*******	**
EATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATIO			EXAM TYPE	EXAN DATE	EXAM RESULT		RELIEF REQST.	INDICATION TYPE	INDICATI RESOLUTI	
						TYPE =====	DATE	RESULT					
	DESCRIPT.	ITEM NO.						RESULT					

OWNER TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT INDUCLEAR POWER GROUP CHATTANOOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 INATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

£

•

F

×

. . ٠

..

NUTECH			TENNESSEE				,			PRISI	1
•				DATA B		0.111	-				
•			POST OUTAGE EXAMI EXAM REQUIREMENT			REPORT				**************************************	31
- * *			INTERVAL : 02		ERICO :					* REVISIO * DATE	OOOO NO
***************************************	*********	*******	****************	******	******	*******	******	******	******	**********	**********
*	SYSTEM ISOMETRIC N		NSS MAIN STEAM SYSTE ISI-0312-B SHEET : 01	H - 001							
	********	*******	********	******	******	*******	******	******	******	**********	**********
FEATURE NUMBER			EXAMINATION CAL. REPORT NO. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT		RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
MSBC-2-03	FLGBLTG	B-G-2 B7.50	R00000248		VT-1	19960402	PASS	YES			
MSBC-2-04	FLGBLTG	8-G-2 87.50	R00000249		VT-1	19960402	PASS	YES			
MSBC-2-06	FLGBLTG	B-G-2 B7.50	R00000250		VT-1	19960402	PASS	YES			
	FLGBLTG	B-G-2 B7.50	R00000258		VT-1	19960403	PASS	YES			<u>ب</u> ت
NSBC-2-12		57.50									

\$

•4

•

ŗ

.

•

ч ч ч

• • •

* NUTECH	7			ENNESSEE V							PRISIM	l
*			BROWNS FI	ERRY NUCLI	EAR POWE DATA B/		- UNIT A	2				
•				AGE EXAMIN	ATION R	ESULTS					********* * PAGE	***************************************
• _ •				UIREMENT : RVAL : 02		RIOD :	LE : 08 2				* REVISIO * DATE (	N 0000 H
*************	**********	*******	*********	*******	******	******	********	******	******	******	************	**********
*	SYSTEM ISOMETRIC NU		ISS MAIN ST ISI-0412-C SH		4 - 001							
************	*********	*******	******	*******	******	FV14	EXAN	EXAN	*******	DCI 1CC	INDICATION	INDICATIO
FEATURE NUMBER			EXAMINATION REPORT NO. R		CAL. STD.	EXAM TYPE	DATE		CREDIT		TYPE	RESOLUTIO
4782401-05-1A	IWA	D-B D2.40	R00000204			vī-3	19960327	PASS	YES			
4782401-12-1A	IWA	D-B D2.40	R00000199			VT-3	19960326	PASS	YES			
4782401-12-1A 4782401-15-1A	IWA IWA		R00000199 R00000198			VT-3 VT-3	19960326 19960326		YES YES			
		D2.40 D-B						PASS				

OWNER: TERNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP 100 KARKET STREET CHATTANOCA, TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

Ş

.

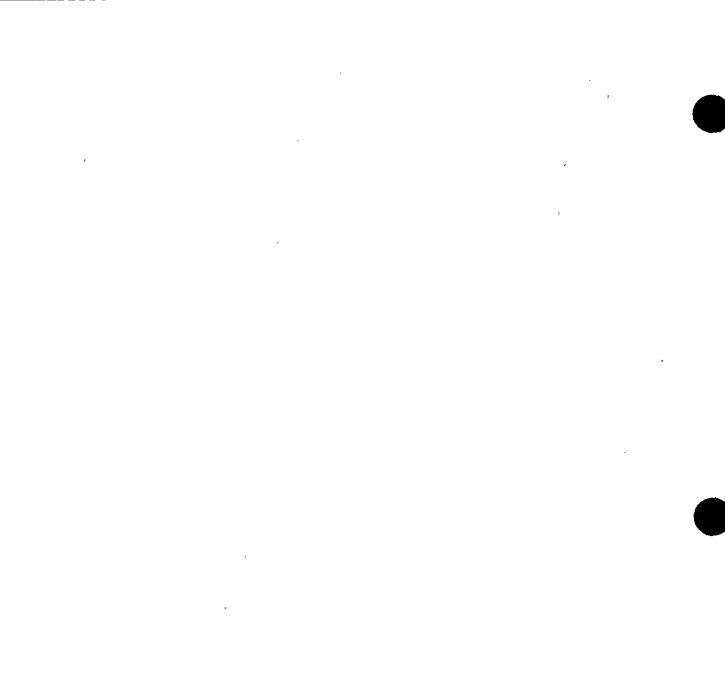
COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BCARD NUMBER FOR UNIT: NOT REQUIRED

NUTECH				ENNESSEE V ERRY NUCLI		ER PLANT		2			PRISI	I
			EXAN REG	AGE EXAMIN DUIREMENT ERVAL : 02	NATION   86E-03 Pi	RESULTS 2 CYC ERICO :	LE : 08 2		******	******	* PAGE * REVISIO * DATE (	
		JHBER : )	ISS MAIN SI ISI-0412-C SI	IEET : 04			-				*****	
EATURE NUMBER	COMPONENT	CATGORY/	EXAMINATION REPORT NO. 1	CAL.	CAL.	EXAM	EXAN DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	RESOLUTIO
SSG-384-1A	IWA `	D-B D2.30	R00000206			VT-3	19960327	PASS	YES			
SSH-1&2	HSNUB-2	F-A F1.30C	R00000208			VT-3	19960326	PASS	YES			
SSH-384-1A	IWA	D-B D2.30	R00000211			VT-3	19960327	PASS	YES			
SSK-2&3-1A	IWA	D-B D2.30	R00000209			VT-3	19960326	PASS	YES			
VVH-07	VSPRING	F-A F1.30C	R00000207		•	VT-3	19960326	PASS	YES			
XVVH-07-1A	IWA	D-B D2.40	R00000197			VT-3	19960326	PASS	YES			
RVVH-08-1A	IWA	D-8 D2.40	R00000201			VT-3	19960326	PASS	YES			
WVH-09-1A	IWA	D-B D2.40	R00000200			VT-3	19960326	PASS	YES			
XVVH-11-IA	IWA	D-B D2.40	R00000213			VT-3	19960327	PASS	YES			
XVH-12-1A	IWA	D-B D2.40	R00000214			VT-3	19960327	PASS	YES			
VVH-13-IA	IWA	D-B D2.40	R00000210			VT-3	19960327	PASS	YES			

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOOGA TENNESSEE 37402 UNIT: THO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

¢



NUTECH	********	********	POST O EXAN R IN	TENNESSEE FERRY NUCL ISI UTAGE EXAMI EQUIREMENT TERVAL : 02	EAR POW DATA B NATION : 86E-0 P	ER PLAN ASE RESULTS 2 CY ERICO :	REPORT CLE : 08 2		*****	*****	PRISI * PAGE * REVISI * DATE	* * 34 * 0N 0000 * 05/09/96 *	
	SYSTEM ISOMETRIC N	UMBER :	ISI-0412-C				******	******	******	******	******	*	
EATURE NUMBER	DESCRIPT.	ITEN NO.	REPORT NO.	N CAL. REPORT NO.	STD.	TYPE		RESULT	CREDIT	REQST.		INDICATION RESOLUTION	
782401-22-IA	IVA *	D-В D2.30	R00000202			VT-3	19960327	PASS	YES				
************	*******	*******	*********	*********	******	******	*******	******	******	******	*******	********	
													-
		-					-				*	ŵ.	
	-												
		_				•							
	- a											60 	
> > > 0													

89

च

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: BROWNS FERRY NUCLEAR PLANT PO. BOX 2000 DECATUR, ALABAMA 35602

COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REDUIRED

UNIT:

TWO

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP CHATTANOOGA, TENNESSEE 37402

\$

٦

4

..

• NUTECH • • •			BROWNS POST OU EXAM RE	TENNESSEE FERRY NUCLI ISI ITAGE EXAMII IQUIREMENT ERVAL : 02	EAR POW DATA BANATION I 86E-0	ER PLANT ASE RESULTS 2 CYC	REPORT				PRISIP ********* * PAGE * REVISIC * DATE C	35 N 0000
			ISS MAIN S ISI-0412-C S		H - 001	******	*******	******	******	******	*****	*****
FEATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATIO RESOLUTIO
2-4782401-35-1A	IVA	D-B D2.30	R00000215			VT-3	19960326	PASS	YES			*
2-47B2401-48-1A	IWA	D-8 D2.40	R00000212			VT-3	19960327	PASS	YES			

٠

 
 OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP TION MARKET STREET CHATTANCOGA, TENEET CHATTANCOGA, TENEESSEE 37402
 PLANT: DECATUR, BROWS FERRAR NUCLEAR PLANT DECATUR, ALABAMA, 35602

 UNIT: TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE: MARCH 1, 1975

 MATIOXAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

**

4

..

.

NUTECH	*			TENNESSEE V				2			PRISI	1
•				ISI	DATA B	ASE		-				
1				TAGE EXAMI			REPORT				**************************************	36
				QUIREMENT ERVAL : 02		ERICO :					* REVISIO * DATE	O000 NC
***********	SYSTEM		RCICS REACTO	D COPE 150			SYSTEM -	071				
	ISOMETRIC NL	• •			CALIDA	COLING	SISIEN -	071				
***************		********	*********		******							
			EXAMINATION		CAL.	EXAN	EXAN	EXAM	SEC XI		INDICATION	INDICATIO
EATURE NUMBER	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD.	TYPE	DATE	RESULT	CREDIT	REQST.	TYPE	RESOLUTIO
	1 233222313	=======										
 CIC-2-1R4		C-F-2	R00000222			HT	19960328		YES			
cic-2-1R4		C-F-2 C5.51	R00000247	C00000087	BF-91	UT-45	19960328	PASS	YES			
 CIC-2-1R4			R00000247	C00000087 C00000088		UT-45		PASS				
	-VALVE	C5.51 C-F-2	R00000247 R00000247 R00000014	C00000088	BF-91	UT-45 UT-60 NT	19960328 19960328 19951213	PASS PASS PASS	YES YES YES			
	-VALVE	C5.51 C-F-2	R00000247 R00000247 R00000014		BF-91	UT-45 UT-60 NT	19960328 19960328	PASS PASS PASS	YES YES	-	GEOMETRIC GEOMETRIC	NON-RELEVAN
	-VALVE	C5.51 C-F-2	R00000247 R00000247 R00000014 R00000017	c00000088 c00000002	BF-91 BF-91	UT-45 UT-60 NT UT-45	19960328 19960328 19951213	PASS PASS PASS PASS	YES YES YES	-		
RCIC-2-1R4	-VALVE ELBOW -PIPE	C5.51 C-F-2	R00000247 R00000247 R00000014 R00000017	c00000088 c00000002	BF-91 BF-91	UT-45 UT-60 NT UT-45	19960328 19960328 19951213 19951214	PASS PASS PASS PASS PASS	YES YES YES YES	-	GEOMETRIC	NON-RELEVAL

3

OWNER: TENNESSEE VALLEY AJTHORITY PLANT: SROWMS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOOGA TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: IMARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

ł

*

.

.*

.

\$

NUTECH			TE BROWNS FE	NNESSEE N				2			PRISI	1
			POST OUTA EXAM REQU	ISI GE EXAMII	DATA BATA BATION	ASE RESULTS	REPORT LE : 08	-			* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC N		CICS REACTOR		LATION (	COOLING	SYSTEH -	071	******	******	************	********
EATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO. RE		CAL. STD.	EXAM TYPE	EXAN DATE	EXAN RESULT			INDICATION TYPE	INDICATI RESOLUTI
EATURE NUMBER								RESULT				
	DESCRIPT.	ITEM NO.	REPORT NO. RE			TYPE =====	DATE	RESULT	CREDIT			

s.

.

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT:
 BROWS SERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 PO. BOX 2000

 1101 WARKET STREET
 DECATUR, ALABAMA 33602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED
 NOT REQUIRED

\$

.

..

.

NUTECH				FERRY NU		Y AUTHORII DWER PLANI BASE		2			PRISIM	ſ
· · ·		÷	EXAM RE	TAGE EXA QUIRENEN	WINATIO	N RESULTS -02 CYI PERIOD :	CLE : 08				* PAGE * REVISIO * DATE O	
	SYSTEN ISOMETRIC NU		RECIR REACTO			LATING SY	STEM - 06	******	******	*******	*******	***********
EATURE NUMBER			EXAMINATION REPORT NO.				EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATIO
FCV-68-03-BC	VALBLTG	B-G-2 B7.70	R00000232		-	VT-1	19960401	PASS	YES			

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOOGA TENNESSEE **37402** UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

Ş

.

• -

٦

************	*********	*******	**********	*********	********						PRISIM	
NUTECH				TENNESSEE V				,	$\mathbf{}$		PRISIN	1
			BROWNS		DATA BA		- 0411 6	•				
			POST CI	JTAGE EXANII			REPORT				*******	********
				QUIREMENT			LE : 08				* PAGE	39
				ERVAL : 02		ER100 :	2				* REVISIO	
											* DATE C	5/09/96
************	********	********	*********	*********	******	******	********	******	******		************	*********
							TEN - 061	2				
	SYSTEM ISONETRIC M		RECIR REACTO		LIKUULAI	1140 213	1 EM - 000	2				
	ISOMETRIC N	JABEK :	151-02/0-0 3	SACEI : UZ								
*************	********	*******	*******	*******	******	*******	*******	******	******	******	**********	********
					CAL.	EXAN	EXAN	EXAM	SEC XI	DEI TEE	INDICATION	INDICATIO
			EXAMINATION REPORT NO.			TYPE	DATE		CREDIT		TYPE	RESOLUTIO
EATURE NUMBER	DESCRIPT.	RETITIES	EFERIES	222222222	222222	22222 <b>2</b>	******	======			**********	**********
CV-68-33-BC	VALBLTG	8-G-2	R00000229			VT-1	19960329	PASS	YES			
		B7.70									-	
2-2-36	0105	B-J	R00000196			PT	19960326	PASS	YES			
-2-30	PIPE -BR CONN		P00000190	C00000128	SIZ8LK				YES			
	BR COAR	07.31	R00000311	C00000129	SIZBLK	UT-SIZ	19960329	ENGR	YES		PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
			R00000311	C00000130	SIZBLK	UT-SIZ	19960328	ENGR	YES		PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
											PREV IGSCC PREV IGSCC	EVALUATED, EVALUATED,
			00000711	C00000132	C1701 F	117-517	10040402	ENCR	YES		PREV IGSCC	EVALUATED,
			R00000311	00000132	JILDER	01-312	17700402	LIGN	160		PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
			R00000311	C00000133	SIZBLK	UT-SIZ	19960402	ENGR	YES		PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
						•					PREV IGSCC	EVALUATED
											PREV IGSCC PREV IGSCC	EVALUATED, EVALUATED,
											PREV IGSCC	EVALUATED,
			P0000311	c00000134	S1781 K	111-517	19960402	ENGR	YES		PREV IGSCC	EVALUATED,
				c00000124					YES		PREV IGSCC	EVALUATED
				200001E4	5. 55	<b>.</b>	.,,	2			PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED.

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 PO. BOX 2000

 1101 KARKT STREEF
 DECATUR, ALABAMA 35602

 UNIT:
 TWO

 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

...

4

•

.

.

.

÷

## - e · · · · .

. ć a -

•

NUTECH				TENNESSEE FERRY NUCLI		ER PLANT		2			PRISI	1
			POST OU	TAGE EXAMI			REPORT			7	*******	********
, ,			EXAN RE	QUIREMENT	: 86E-0		CLE : 08	-			* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC N		RECIR REACTO		CIRCULA	TING SYS	STEM - 061	B "	******	******	*************	-
EATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE		SEC XI CREDIT	REQST.	INDICATION TYPE	INDICATION RESOLUTION
R-2-36	PIPE -BR CONN	B-J B9.31	R00000311	c00000126	BF-88	UT-45	19960329	ENGR	YES		PREV IGSCC PREV IGSCC PREV IGSCC PREV IGSCC	EVALUATED, EVALUATED, EVALUATED, EVALUATED,
	-		R00000311	C00000131	8F-57	UT-45	19960403	ENGR	YES		PREV IGSCC PREV IGSCC PREV IGSCC PREV IGSCC PREV IGSCC PREV IGSCC	EVALUATED, EVALUATED, EVALUATED, EVALUATED, EVALUATED, EVALUATED,
			R00000311	C00000125	BF-88	UT-60L	19960328	ENGR	YES		PREV IGSCC PREV IGSCC PREV IGSCC PREV IGSCC PREV IGSCC	EVALUATED, EVALUATED, EVALUATED, EVALUATED, EVALUATED,
	-		R00000311	C00000127	8F-88	UT-60L	19960329	ENGR	YES		PREV IGSCC PREV IGSCC PREV IGSCC PREV IGSCC	EVALUATED, EVALUATED, EVALUATED, EVALUATED,

•

1.5°

UNIT:

TV/O

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

PLANT: EROWAYS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

\$

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GAUP CHATTANOOGA TENNESSEE 37402

4

...

COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD HUMBER FOR UNIT: NOT REQUIRED

NUTECH	<b>F</b>		TENNESSEE V. BROWNS FERRY NUCLE ISI		ER PLANT		2			PRISIN	l '
			POST OUTAGE EXAMIN EXAM REQUIREMENT : INTERVAL : 02	86E-0		LE : 08				* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC NU		ECIR REACTOR WATER REC SI-0278-C SHEET : 01	IRCULA	TING SYS	STEM - 06	3	******	-	****	
EATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION CAL. REPORT NO. REPORT NO.	CAL. SID.	EXAN TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
-47840850063	H SNUB	F-A F1.40C	R00000235		VT-3	19960401	PASS	YES			
-478408S0067-1E	H SNUB	F-A F1.40C	R00000237		VT-3	19960401	PASS	YES			
-478408S0068-1E	H SNUB	F-A F1.40C	R00000238		VI-3	19960401	ENGR	YES		INC SETTING	SET ANAL OK
			R00000239		VT-3	19960401	ENCO	YES		INC CETTING	SET ANAL OK

•

.

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 P.O. BOX 2000

 1101 MARKET STREET
 DECATUR, ALABAMA 35602

 CHATTANOOGA TENNESSEE 37402
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 MATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

ş

..

ź

-

3

Ŧ

NUTECH		********	BROWNS FERRY N		JER PLAN		2		******	PRISI	{
			POST OUTAGE EX EXAM REQUIREME INTERVAL :	NT : 86E-0	RESULTS	CLE : 08	1			* PAGE * REVISIO	
	SYSTEM ISOMETRIC N		RECIR REACTOR WATER		ATING SY	********* STEM - 06	******	******	******	* DATE (	J5/09/96 *********
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION CAL. REPORT NO. REPORT	CAL.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	REQST.		INDICATION RESOLUTION
2-47840850074	R STRUT	F-A F1.10A	R00000228			19960329		YES			
**************	*******	*******	******	******	******	*******	******	******	******	********	********
-											
							-				
					•						-
								*			
		٠						-			
	-						-				

r

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP 100 INARKET STREET CHATTANOOGA, TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MAJRCH 1, 1975 VATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

...

\$

.

.

•

* NUTECH				TENNESSEE Y				2				PRISIN	I	
					DATA B						*			
				TAGE EXAMI							***	*****	*******	t de s
				QUIREMENT			LE : 08					AGE	43	
			INI	ERVAL : 02	PI	ERIOD :	2					EVISIO ATE O	N 0000 15/09/96	
**************	*******	*******	*********	********	******	*******	*******	******	******	******	*******	*****	*******	1#1
	SYSTEM	: 1	RHRS RESIDU	IAL HEAT REI	HOVAL ST	YSTEM -	074							
	ISOMETRIC N	INBER : 1	IS1-0221-C S	HEET : 01										
*******	*****	******	*******	*******	******	******	*******	******	******	******	*******	*****	********	1#1
******	******	******	********	*******	******	******	********	CYAW	CEC VI		*******	*****	********	**
**************************************	COMPONENT	CATGORY/	EXAMINATION				EXAM	EXAM RESULT	SEC XI		INDICA		INDICATI	
ATURE NUMBER	COMPONENT	CATGORY/	********			EXAM TYPE	EXAM DATE		SEC XI CREDIT		INDICA TYP		INDICATI RESOLUTI	
	COMPONENT DESCRIPT.	CATGORY/	EXAMINATION					RESULT			TYP	8		10
**************	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	STD.	TYPE	DATE	RESULT	CREDIT		TYP	8	RESOLUTI	10
FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO. 	CAL. REPORT NO.	STD.	TYPE TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	DATE	RESULT	CREDIT		TYP	8	RESOLUTI	10

٠

OWNER: TEMRESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT INUCLEAR POWER GROUP CHATTANOOGA TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 MATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

.

..

٠

.

-

. 

ν, .

ч

,

• .

•

*7

* NUTECH	TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2										PRISIN		
,				ISI	DATA B	ASE		-					
				AGE EXAMI							*******	*********	
				UIREMENT RVAL : 02		2 CYO ER100 :					* PAGE * REVISI	44	
			INIC	KVAL I UZ	. 1		č				* DATE		
**************	*******	*******	***********	*******	******	******	******	******	******	******	*********	*********	
										1			
	SYSTEM		RHRS RESIDUA		HOVAL S	ysten -	074						
	ISOMETRIC NO	JHBER : I	ISI-0310-B Sł	EET : UI									
************	*********	*******	**********	******	******	******	*******	******	******	******	********	*********	
	CONDONENT	CHTCOOX /	-	<b>C</b> 41	C 41		EXAM	CV44		051755	INDICATION	100104710	
			EXAMINATION					RESULT			TYPE	INDICATIC RESOLUTIC	
EATINE NIMBED			DEDODT NO E	FDODT NO	SIN	TYDE							
EATURE NUMBER		ITEM NO.	REPORT NO. F	EPORT NO.	SID. =======	TYPE	DATE	TITITI	=====	882333	1175	2222222222	
***************	DESCRIPT.	ITEM NO.		EPORT NO.	SID. 222222	322772	********	23223Z	*****	853555	1770	X355555255	
****************	DESCRIPT.	ITEM NO.		EPORT NO.	51D. 	TYPE ====== VT-3	19960125	23223Z	YES	883555		232522222	
****************	DESCRIPT.	ITEM NO.		EPORT NO.	510.	322772	********	23223Z	*****	82222		2355553525	
EATURE NUMBER	DESCRIPT.	ITEM NO.		EPORT RO.	510.	322772	********	PASS	*****	822222		233555257	

 
 OWNER: TENNESSEE WALLEY AUTHORITY
 PLANT: BROWNS FERRY HUCLEAR PLANT NUCLEAR POWER GROUP ION MARKET STREET
 PO. BOX 2000 PO. BOX 2000 DECATUR, ALABAMA 35602

 UNIT: TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE: MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

...

• *

NUTECH				FERRY NUCL	EAR POW	R PLANT		2			PRISI	1
			2007 011	ISI IAGE EXAMII	DATA B		REPORT				*******	*******
			EXAN REG	WIREMENT ERVAL : 02	: 86E-0		LE : 08	*****		******	* PAGE * REVISIO * DATE	
	SYSTEM ISONETRIC NU		RHRS RESIDU/ ISI-0324-C Si		HOVAL S	rstem -	074	******	******	******	********	******
EATURE NUMBER			EXAMINATION REPORT NO. 1		CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATIO
	*********	*******	**********	*********	******	X22322	********	385383	*****	******	**********	*********
****************	HVSPG 2	F-A F1.20C	R00000081		******	****** VT-3	19960124	PASS	YES	*****		
-47B452H0035	~ `		R00000081		*****		19960124 19960124		YES YES	*****		
-478452H0035 -478452H0037 -478452H0088	RIGSTR2 VSPRING	F1.20C			*****	VT-3		PASS			INC SETTING	SET ANAL (

.

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR POVER GEOUP 1010 KARKET STREET CHATTANOOGA TEANESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL SOARD NUMBER FOR UNIT: NOT REQUIRED

\$

...

.

.*

•

c

÷

ŧ.

2

•

" "

• * *

NUTECH			TENNESSEE BROWNS FERRY NUCL ISI POST OUTAGE EXAMI EXAM REQUIREMENT INTERVAL : O2	EAR POW DATA BANATION 1 : 86E-03	ER PLANT ASE RESULTS	- UNIT 2 REPORT	!		 PRISIN ********* * PAGE * REVISIC * DATE O	46 W 0000
	*******	MBER : :	RHRS RESIDUAL HEAT RE ISI-0324-C SHEET : 02 EXAMINATION CAL. REPORT NO. REPORT NO.	******* CAL.	******	074 EXAM DATE	EXAM RESULT	SEC XI CREDIT	INDICATION TYPE	INDICATIO RESOLUTIO
2-478452-1330	RIGHGR2	F-A F1.20B	R00000047	-	VT-3	19960102	PASS	YES		
2-478452-1330-1A	IWA	C-C C3.20	R00000046		HT	19960102	PASS	YES		
		C-C	R00000045		MT	19960102	PASS	YES	-	
2-478452-1341-1A	IWA	C3.20								

OWNER: TERNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOGA TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REDUIRED

\$

ر م د

NUTECH				TENNESSEE	VALLEY	AUTHOPT	TY				PRISI	M
NOTCON				FERRY NUCL				2			7 (101	
					DATA B							
				TAGE EXAMI							* PAGE	47
				ERVAL : 02		ERICO :	-					ON 0000
			********			******	********					*********
<b>`</b>	SYSTEM ISOMETRIC N		RHRS RESIDU ISI-0324-C S		MOVAL S	YSTEM -	074					
******	*********	*******	********	*******	******	******	*******	******	******	******	**********	********
EATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.	REPORT NO.		TYPE		RESULT	CREDIT	REQST.		RESOLUTIO
							19960123	PASS	YES			
·478452HU106	RIG HGR	F-A F1.20A	R0000068			VI-2			120		-	
•47845280106	RIG HGR		R00000068	*******	******	******	******	******	*****	******		******
478452HU108	RIG HGR		R00000068	*****	******	******	*******	******	*****	******		*****
478432H0106	RIG HGR		R00000068	******	******	******	******	******	******	******		*****
478452H0106	RIG HGR		R0000068	*****	*****	******	*****	****	******	*****		****
478452H0106	RIG HGR		R0000068	******	*****	******	****	-	***	***		***
478452HU1U6	RIG HGR		R0000068	*****	*****	****	*******	-	*****	*****		****
478452HU1U6	RIG HGR		R0000068	*****	*****	******	*******	-	*****	*****		****
478452HU1U6	RIG HGR		R0000068	*****	*****	******	****	-	****	***		****
478452HU1U6	RIG HGR		R0000068	*****	*****	******	*****	-	******	****		*****
478452H0106	RIG HGR		R0000068	*****	******	******	*****	-	*****	****		*****
478452H0106	RIG HGR		<b>R0000068</b>	*****	******	******	****	-	*****	*****		*****
478452H0106	RIG HGR		<b>R0000068</b>	*****	******	******	****	-	*****	***		****
478452H0106	RIG HGR		R0000068	******	******		****	-	*****	***		****
-478452H0106	RIG HGR		R0000068	******	******		****	-	*****	***		****
-478452H0106	RIG HGR		R0000068	*****	******	, *******	****	-	****	****		****

 OWNER:
 TENNESSEE VALLEY AUTHORITY
 PLANT:
 BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 DECATUR, ALABAMA 35602

 CHATTANOGA TENNESSEE 37402
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMZER FOR UNIT: NOT REQUIRED

\$

••

.

•,*

a.

٠

.

.

-

.

ň

'n

· .

•, . •

. .

*************** NUTECH TENNESSEE VALLEY AUTHORITY PRISIM BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 ISI DATA BASE POST OUTAGE EXAMINATION RESULTS REPORT *************** EXAN REQUIREMENT : 86E-02 CYCLE : 08 * PAGE 48 INTERVAL : 02 PERIOD : 2 * REVISION 0000 * DATE 05/09/96 : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074 SYSTEM ISOMETRIC NUMBER : ISI-0324-C SHEET : 04 COMPONENT CATGORY/ EXAMINATION CAL. CAL. EXAN EXAM EXAM SEC XI RELIEF INDICATION INDICATION RESULT CREDIT REGST. FEATURE NUMBER DESCRIPT. ITEM NO. REPORT NO. REPORT NO. STD. TYPE DATE TYPE RESOLUTION 2-478452H0055-IA IWA R0000069 19960122 PASS C-C HT YES C3.20 2-478452H0063-IA IWA C-C R00000070 HT 19960122 PASS YES C3.20 

OWNER COMMERICAL SERVICE DATE: MARCH 1, 1975 CHATTAN W TENNESSEE 37402 UTHORITY CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: 200 CATUR, S FERRY NUCLEAR PLANT X 2000 IR, ALABAMA 35602

Ş

UNIT:

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

	NUTECH	****	*******	BROWNS POST OU EXAM RE	TENNESSEE FERRY NUCL ISI ITAGE EXAMI QUIREMENT ERVAL : 02	EAR POW DATA B NATION 1 : 86E-0	ER PLANT ASE RESULTS	F - UNIT A REPORT CLE : 08			*****	PRISI * PAGE * REVISI	49 * 0N 0000 *
		COMPONENT	UMBER :	RHRS RESIDU ISI-0324-C S EXAMINATION REPORT NO.	HEET : 05	******* CAL.	YSTEM - ******** EXAM TYPE	074 EXAM DATE	EXAH RESULT		******** RELIEF REQST.	* DATE (	INDICATION RESOLUTION
	2-47B452H0064	HVSPG 2	====== F-A	R00000083	222222222		228323	19960124	******	YES		**********	
:	2-478452H0064-1A	IWA	F1.20C C-C C3.20	R00000071			нт	19960122	PASS	YES			
	2-478452H0065-IA	IVA	C-C C3.20	R00000072			MT	19960122	PASS	YES			
	2-47B452R0059	RIG HGR	F-A F1.20A	R00000105			VT-3	19960130	PASS	YES			

.

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP TIOL VARKET STREE CHATTANOOGA TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

N

5

.

•••

NUTECH							IY I - UNIT (	,			PRISI	н	
•			BROWNS FI		DATA B		- UNIT A	2					
,				AGE EXAMI							*******	*******	***
				UIREMENT RVAL : 02		ERIOD :	2 : 08					50 ON 0000 05/09/96	
	SYSTEM ISOMETRIC N		RHRS RESIDUA ISI-0324-C SH		MOVAL S	YSTEM -	074	******	******	*****	******	******	**1
								-					
EATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO. R		CAL. STD.	EXAN TYPE	EXAM DATE	EXAM RESULT	SEC XI I CREDIT I		INDICATION	INDICAT RESOLUT	
EATURE NUMBER								RESULT					
2-478452H0057-1A	DESCRIPT.	ITEN NO.	REPORT NO. R			TYPE	DATE	RESULT					
	DESCRIPT.	ITEN NO.	REPORT NO. RI			TYPE ########	DATE	RESULT PASS PASS	CREDIT			RESOLUT	10

Commerical Service Date: March 1, 1975 National Board Number for Unit: Not required OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

,

£

4

UNIT:

NUTECH				ENNESSEE V ERRY NUCLE ISI		R PLANT		2			PRISIM	۱ ۲
			EXAM REQ	AGE EXAMIN DIREMENT RVAL : 02	: 86E-02		LE : 08				* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC M		RHRS RESIDUA ISI-0324-C SH		HOVAL S	YSTEM -	074	*****	******	******	**********	*****
ATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO. F			EXAM TYPE	EXAN DATE		SEC XI CREDIT		INDICATION TYPE	INDICATI RESOLUTI
478452H0068-1A	IWA	C-C C3.20	R0000020			NT	19951222	PASS	YES			
	VSPRING	F-A F1.20C	R0000033			VT-3	19951226	PASS	YES			
47845280069												
-478452H0069 -478452H0126	HVSPG 2	F-A F1.20C	R0000032			vt-3	19951226	PASS	YES			

00085

ŝ

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT INUCLEAR POWER GROUP CHATARYOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD MUMJER FOR UNIT: NOT REQUIRED

<ul> <li>NUTECH</li> <li></li> </ul>		BROWNS		EAR POW DATA B	ER PLANT ASE	- UNIT 2	2			PRISI	н
• • •		 EXAN RE	TAGE EXAMI QUIREMENT ERVAL : 02	: 86E-D	2 CYC	LE : 08	-			* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC ML	RHRS RESIDU ISI-0324-C S		ŅOVAL S	YSTEM -	074	******	******	****	*********	**********
							EXAM	SEC XI	DEI IEE	INDICATION	INDICATION
FEATURE NUMBER	COMPONENT DESCRIPT.						RESULT			TYPE	RESOLUTIO
FEATURE NUMBER 2-478452-0981-1E	DESCRIPT.				TYPE		RESULT				

98000

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER CEROUP 101 MAINET STREET WHIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 SATIONAL BOARD MUNAER FOR UNIT: NOT REQUIRED

\$

:

NUTECH				TENNESSEE	EAR POW	ER PLANT		!			PRISI	(
1					DATA B		DEDOOT				********	*******
, , ,			EXAM RE	TAGE EXAMI QUIREMENT ERVAL : 02	: 86E-0	S CLO	LE : 08				* PAGE * REVISIO * DATE	
*****	*********	********	*********	******	******	*******	*******	******	******	******	**********	*******
	SYSTEM ISOMETRIC NU		RHRS RESIDU ISI-0324-C S		HOVAL S	YSTEM -	074					
**************	*******	*******	*******	*******	******	*******	*******	*****	******	******	*******	********
FEATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE			SEC XI CREDIT		INDICATION TYPE	INDICATI RESOLUTI
2-478452H0022		F-A F1.20A	R00000051			VT-3	19960104	PASS	YES			
**************	*******	*******	*********	*********	******	*******	*******	******	******	******	*********	********

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWN:S FERRY NUCLEAR PLANT INDUEAR POWER RADUP CHATANOOGA, TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REDUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REDUIRED

s

..

¥

. -.

۶ --

-•

.

•

NUTECH				LEAR PO	MER PLANT BASE	r - UNIT 2	2			PRISIN	• •
			POST OUTAGE EXAM EXAM REQUIREMENT INTERVAL : 0	: 86E-	02 CYC PERIOD :	:LE : 08	******		******	* PAGE * REVISIO * DATE O	
	SYSTEM ISOMETRIC N		RHRS RESIDUAL HEAT R ISI-0324-C SHEET : 10		SYSTEN -	074	******	******	*****	*****	, , , , ,
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION CAL. REPORT NO. REPORT NO	CAL. . STD.		EXAM DATE	EXAN RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
2-478452\$0308	RIG HGR	F-A F1.20B	R00000053		vt-3	19960104	PASS	YES			

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 MATIONAL BOARD VUI/SER FOR UNIT: NDT REQUIRED OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

\$

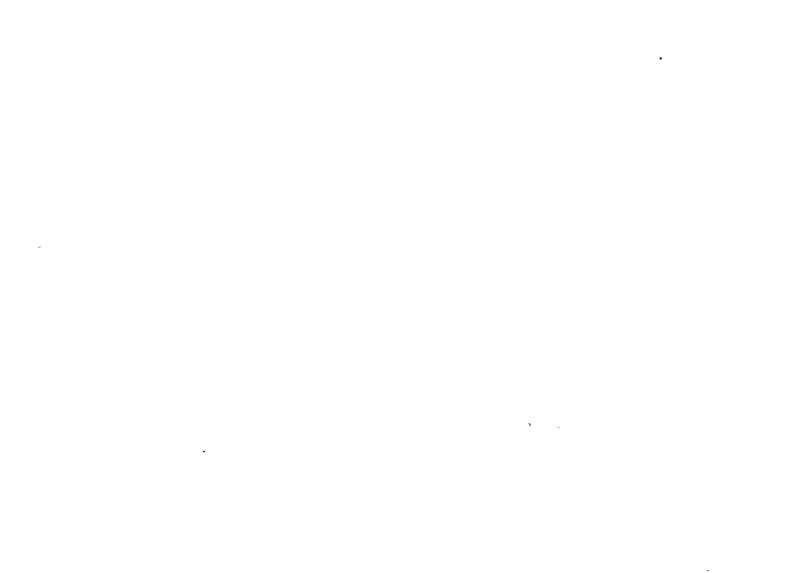
-4

.

.

. ___

з



-

NUTECH	<b>,</b>			TENNESSEE	ALLEY /	UTHORIT	Y				PRISIM	
AUTECH			BROWNS	FERRY NUCLI				2				
				ISI	DATA B/	ISE						
			POST O	JTAGE EXAMI	NATION I	RESULTS	REPORT				* PAGE	55
				EQUIREMENT		R100 :	2				* REVISIO * DATE 0	0000 K
***********	*********	*******	********	*********	******	*******	*******	******	******	*******	*********	**********
	SYSTEM	: 6	THRS RESID	UAL HEAT REI	HOVAL S	rsten -	074					
	ISOMETRIC NU											
		-					********	******	******	******	***********	*********
****************						+						
ATURE NUMBER	COMPONENT DESCRIPT.			REPORT NO.		EXAM TYPE	EXAN Date		SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
***************************************	* **********	*******		*********	******		********	******		22222 <b>8</b>		**********
IRG-2-05A-A	VES SHL -VES NOZ	С-в C2.31	R00000102			HT	19960129	PASS	YES			
IRG-2-05B-A	VES NOZ	C-B C2.31	R00000103			MT	19960129	PASS	YES			
IRG-2-09-A	VES HD	C-A C1.10	R00000107	C00000037	BF-32	UT-45	19960130	PASS	YES			
IRG-2-12-A	VES SUP	F-A F1.40B	R00000100			vt-3	19960130	FAIL	YES		LOOSE BOLTIN	BLTNG TGHTM
IRG-2-13-A	VES SUP	F-A F1.40B	R00000101			<b>VT-3</b>	19960130	FAIL	YES		LOOSE BOLTIN	BLTNG TGHTM
IRG-2-13-C-IA	IWA	C-C C3.10	R00000112			MT	19960131	PASS	YES			
IRG-2-14-A	VES SUP	F-A	R00000104			VT-3	19960130	PASS	YES			

ų

UNIT: TWO CERTIFICATE OF AUTHORIZATION: MOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED OWNER: TENNESSEE WILLEY AUTHORITY NUCLEAR POWER GROUP THO MARKET SER GROUP CHATTAWOOGA TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

\$

•

...

4

•

.

•

.

. .

68000

¢ 1

. . . 

τ**ε** 

**、** 

• ,

NUTECH			BROWNS	TENNESSEE	EAR POW	ER PLANT	-	2			PRISI	4
			EXAM RE	ISI ITAGE EXAMII OUIREMENT ERVAL : 02	: 86E-0	RESULTS	LE : 08				********* * PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC N		RHRS RESIDU 15G-0018-C S		HOVAL S	YSTEN -	074	*****	******	*****	*****	******
EATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.	REPORT NO.		EXAM TYPE	EXAM DATE		CREDIT	REQST.	INDICATION TYPE	INDICATIO RESOLUTIO
RHR-2-222	VALVE -ELBOW	C-F-2 C5.51	R00000076 R00000085	c00000025	BF-100	nt Ut-45	19960122 19960123		YES YES		GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC	NON-RELEVAN NON-RELEVAN NON-RELEVAN NON-RELEVAN
			R0000085	c0000026	BF-100	UT-60	19960123	PASS	YES		GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC	NON-RELEVAN NON-RELEVAN NON-RELEVAN NON-RELEVAN
RHR-2-241	TEE -PIPE	C-F-2 C5.51		C00000035 C00000036		UT-45		PASS	YES YES YES		-	
RHR-2-262	TEE •PIPE	C-F-2 C5.51	R0000090 R00000108	c00000038	BF-98	HT UT-45	19960124 19960130		YES YES		GEOMETRIC	NON-RELEVAI NON-RELEVAI NON-RELEVAI NON-RELEVAI NON-RELEVAI NON-RELEVAI

00000

e 14.

۰

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 MATIONAL BOARD HUMBER FOR UNIT: NOT REQUIRED

12 24 - 1 OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOOGA TENNESSEE 37402

> PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

> > ş

•*

NUTECH				TENNESSEE		ER PLANI		2			PRISI	1
, , ,			EXAM RE	ITAGE EXAMI OUIREMENT ERVAL : 02	ATION F	RESULTS 2	CLE : 08				* PAGE * REVISI * DATE	
	SYSTEM ISOMETRIC N		RHRS RESIDU MSG-0018-C S		40VAL S	YSTEH -	074	******	******	******	********	****
EATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE	EXAN DATE	EXAM RESULT			INDICATION TYPE	INDICATIO RESOLUTIO
RHR-2-319	VALVE -PIPE	C-F-2 C5.51	R00000023 R00000041 R00000041	C00000012 C00000013		ht Ut-45 Ut-60	19951221 19951226 19951226	PASS	YES YES YES	,	GEOMETRIC GEOMETRIC	NON-RELEVA

38,

.

4

 OWNER:
 TENNESSEE VALLEY AUTHORITY
 PLANT:
 EROMAS FERRY NUCLEAR PLANT

 NUCLEAR POWER CERDUP
 PC. BOX 2000
 PC. BOX 2000

 1101 WARKET STREED
 DECATUR, ALABAMA 33602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 NARCH 1, 1975

 NATIONAL BOARD NUMSER FOR UNIT:
 NOT, REQUIRED

-

Ś

•*

.

..

•

.

æ

ni,

i na Ar I u

•

.

.

.

. .

. 2

•

,

NUTECH				TENNESSEE			-	•			PRISI	1
- 1			BROWNS	FERRY NUCLI	DATA B		1 - UNII 4	2				
			POST O	JTAGE EXAMI			REPORT				*******	*********
			EXAM R	QUIREMENT	: 86E-0	2 CY(	CLE : 08				* PAGE	58
			IN	ERVAL : 02	P	ER100 :	2				* REVISIO	
				*********		*******	********			******	* DATE (	)5/09/96
							<del>.</del>					
	SYSTEM		RHRS RESID		MOVAL S	YSTEM -	074					
	ISOMETRIC N	UMBER : M	4SG-0018-C	SHEET : 03								
		********	**********	**********	*******	*******						
	COMPONENT	CATGORY/	EXAMINATIO	CAL.	CAL.	EXAM	EXAN	EXAM	SEC XI	RELIEF	INDICATION	INDICATION
ATURE NUNBER	COMPONENT DESCRIPT.		EXAMINATIO REPORT NO.			EXAM TYPE	EXAN DATE		SEC XI CREDIT		INDICATION TYPE	
ATURE NUNBER												
								RESULT				
*********	DESCRIPT.	ITEM NO.	REPORT NO.		STD.	TYPE	DATE	RESULT	CREDIT		TYPE	RESOLUTION
*********	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD. ====== BF-37	TYPE ===== NT UT-45	DATE 19951229 19960103	RESULT	CREDIT EESENE YES YES		TYPE GEONETRIC GEONETRIC	RESOLUTION
*********	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD. ====== BF-37	TYPE ===== NT UT-45	DATE	RESULT	CREDIT		TYPE GEOMETRIC GEOMETRIC GEOMETRIC	RESOLUTION
*********	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD. ====== BF-37	TYPE ===== NT UT-45	DATE 19951229 19960103	RESULT	CREDIT EESEN YES YES		TYPE GEONETRIC GEONETRIC	INDICATION RESOLUTION NON-RELEVAN NON-RELEVAN NON-RELEVAN NON-RELEVAN
HR-2-408	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD. ====== BF-37	TYPE HT UT-45 UT-60	DATE 19951229 19960103	RESULT PASS PASS PASS PASS	CREDIT TES YES YES YES		TYPE GEOMETRIC GEOMETRIC GEOMETRIC	RESOLUTION
HR-2-408	RED TEE RED TEE PIPE	ITEM NO.	REPORT NO.	REPORT NO.	STD. BF-37 BF-37	TYPE HT UT-45 UT-60 MT	DATE 19951229 19960103 19960103 19951227	RESULT PASS PASS PASS PASS	CREDIT EESEN YES YES		TYPE GEOMETRIC GEOMETRIC GEOMETRIC	RESOLUTION
HR-2-408	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD. BF-37 BF-37	TYPE HT UT-45 UT-60 MT	DATE 19951229 19960103 19960103	RESULT PASS PASS PASS PASS	CREDIT TES YES YES YES YES		TYPE GEOKETRIC GEOKETRIC GEOKETRIC GEOKETRIC	RESOLUTION NON-RELEVAN NON-RELEVAN NON-RELEVAN NON-RELEVAN
ATURE NUMBER HR-2-408 HR-2-432	RED TEE RED TEE PIPE	ITEM NO.	REPORT NO.	REPORT NO.	STD. BF-37 BF-37	TYPE 	DATE 19951229 19960103 19960103 19951227	RESULT PASS PASS PASS PASS PASS PASS	CREDIT TES YES YES YES YES		TYPE GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC	RESOLUTION NON-RELEVAN NON-RELEVAN NON-RELEVAN NON-RELEVAN

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: EAOXYJS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP IND MARKET STREET CHATTANOOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 WATIONAL BOARD NUMER FOR UNIT: MOT REOURED

Ş

₹_ = ³

...

8

• NUTECH				TENNESSEE	VALLEY	WITHOR IT	TY .				PRISI	4
				FERRY NUCLI				2				•
•					DATA B			_				
,			POST OU	TAGE EXAMI	NATION P	RESULTS	REPORT	-			*******	*********
,			EXAM RE	QUIREMENT	: 86E-02	2 CYC	LE : 08				* PAGE	59
•			INT	ERVAL : 02	PI	ERIOD :	2				* REVISIO	
•											* DATE (	05/09/96
**************	********	*******	*********	********	******	******	*******	******	******	******		**********
1							A7/					
	SYSTEM		RHRS RESIDU		HOVAL S	ISIEM -	074					
	ISOMETRIC NU	MBER : P	45G-0018-C S	HEET : US								
						******	********	******	******	******	***********	*********
****************	**********											
***************	********	********	**********	*********								
***************	COMPONENT	CATGORY/	FYANINATION	CAL.	CAL.	EXAM	EXAM	EXAM	SEC XI	RELIEF	INDICATION	INDICATION
FATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
EATURE NUMBER			EXAMINATION REPORT NO.									
FEATURE NUMBER	DESCRIPT.	ITEN NO.	REPORT NO.					RESULT				
*****************	DESCRIPT.	ITEM NO.	REPORT NO.		STD.	TYPE	DATE	RESULT	CREDIT			
rHR-2-171	DESCRIPT.	ITEN NO.	REPORT NO.	REPORT NO.	STD.	TYPE	DATE	RESULT	CREDIT			
RHR-2-171	RED TEE -RED TEE ELBOW	ITEN KO. 	REPORT NO. REPORT NO. R00000111 R00000117 R00000075	REPORT NO.	STD.	TYPE TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	DATE 19960131 19960202	RESULT PASS PASS PASS	CREDIT ====== YES YES	REQST.		
RHR-2-171	RED TEE -RED TEE ELBOW	ITEN NO.	REPORT NO. REPORT NO. R00000111 R00000117 R00000075	REPORT NO.	STD.	TYPE TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	DATE 19960131 19960202 19960123	RESULT PASS PASS PASS	CREDIT TES YES YES	REQST.	TYPE	RESOLUTION
RHR-2-171 RHR-2-182	RED TEE -RED TEE ELBOW	ITEN KO. 	REPORT NO. R000000111 R000000117 R00000075 R000000110	REPORT NO.	STD.	TYPE HT UT-45 HT UT-45	DATE 19960131 19960202 19960123	RESULT PASS PASS PASS PASS PASS	CREDIT TES YES YES	REQST.	TYPE	RESOLUTION
RHR-2-171	RED TEE -RED TEE ELBOW	ITEN KO. 	REPORT NO. R00000111 R00000117 R00000075 R00000110 R00000110	REPORT NO.	STD. BF-97 BF-98	TYPE HT UT-45 HT UT-45 UT-45	DATE 19960131 19960202 19960123 19960131	RESULT PASS PASS PASS PASS PASS	CREDIT TES YES YES YES YES	REQST.	TYPE	RESOLUTION
RHR-2-171 RHR-2-182	RED TEE -RED TEE ELBOW	ITEN KO. 	REPORT NO. R00000111 R00000117 R00000075 R00000110 R00000110	REPORT NO.	STD. BF-97 BF-98 BF-98	TYPE HT UT-45 HT UT-45 UT-45	DATE 19960131 19960202 19960123 19960131 19960201	RESULT PASS PASS PASS PASS PASS	CREDIT TES YES YES YES YES YES	REQST.	TYPE	RESOLUTION
IRHR-2-171 IRHR-2-182	RED TEE -RED TEE ELBOW -PIPE	ITEN KO. 	REPORT NO. R00000111 R00000117 R00000075 R00000110 R00000110	REPORT NO.	STD. BF-97 BF-98 BF-98	TYPE HT UT-45 HT UT-45 UT-45	DATE 19960131 19960202 19960123 19960131 19960201	RESULT PASS PASS PASS PASS PASS PASS PASS	CREDIT TES YES YES YES YES YES	REQST.	TYPE	RESOLUTION

e

.

•

\$

+

.*

0
0
0
9
ω

*

NUTECH				TENNESSEE V	ALLEY /	UTHORIT	Υ		- 🔍		PRISI	I
			BROWNS	FERRY NUCLI			' - UNIT 2	2				
					DATA B							
				TAGE EXAMI							* PAGE	60
				OUIREMENT ERVAL : 02		RIOD :	2 2				* REVISIO * DATE	0000 M
**************	**********	********	**********	*********	******	******						
	SYSTEM ISONETRIC NU		RHRS RESIDU		HOVAL SI	ISTEM -	074					
***********	*******	*******	**********	*******	******	******	*******	******	******	******	***********	********
EATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.	<b>REPORT NO.</b>	CAL. STD.	EXAM TYPE	EXAN DATE		CREDIT		INDICATION TYPE	INDICATIO RESOLUTIO
RHR-2-362	RED ELB	C•F•2	R00000024	•		NT	19951220		YES			
	-PIPE	C5.51	R00000029	C0000009	BF-98		19951221		YES			NON-DELEN
			R00000029	C0000006	BF-98	UI-45	19951221	PASS	YES		GEONETRIC	NON-RELEV
											GEONETRIC -	NON-RELEV
											GEOMETRIC	NON-RELEV
											GEOMETRIC	NON-RELEV
											GEOMETRIC	NON-RELEV
			R00000029	C0000007	BF-98	UT-60	19951221	PASS	YES		GEOMETRIC	NON-RELEV
											GEOMETRIC	NON-RELEV
							40054000		~~~		GEOMETRIC	NON-RELEV
			R0000029	C0000008	BE-28	01-00	19951222	PASS	YES		GEOMETRIC	NON-RELEV
											GEOMETRIC	NON-RELEV
NR-2-376	PUMP	C-F-2	R00000025			NT	19951220		YES			
	-RED ELB		R0000028	C00000004			19951221		YES		GEOMETRIC	NON-RELEV
			R0000028	C00000005	86-04	UT-60	19951221	PASS	YES		GEOMETRIC	NON-RELEV

.

- "

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 P.O. BOX 2000

 1100 MARKET STREET
 DECATUR, ALABAMA 35602

 CHATTANOGA TENNESSEE 37402
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUNZBER FOR UNIT: NOT REQUIRED

\$

**

٠



·

•

<u>}</u>

NUTECH				TENNESSEE FERRY NUCL	EAR POW	ER PLAN		2			PRISI	H
			DOCT O	ISI JTAGE EXAMI	DATA B		DEDODT				*******	*********
,				OUTREMENT		_	LE : 08				* PAGE	61
, ,				ERVAL : 02		ERIOD :					* REVISI	•••
*************	********	*******	**********	********	******	******	*******	******	******	******	*********	******
· •	SYSTEM	: 1	RHRS RESIDU	JAL HEAT RE	MOVAL S	YSTEM -	074					
<b>}</b>	ISOMETRIC N	UMBER : 1	NSG-0018-C S	SHEET : 07								
,												
						*******						**********
**********	********	********	**********	*******	******	******	*******	******	******	******	**********	********
***************	COMPONENT	CATGORY/	EXANINATION	**************************************	******* CAL.	*******	EXAN	EXAN	SEC XI	RELIEF	INDICATION	INDICATIO
EATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE	EXAN DATE		SEC XI CREDIT		INDICATION TYPE	INDICATIO RESOLUTIO
	DESCRIPT.	ITEM NO.	REPORT NO.			TYPE	DATE	RESULT	CREDIT			
	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD.	TYPE ====== MT	DATE	RESULT	CREDIT		TYPE	RESOLUTIO
	DESCRIPT.	ITEM NO.	REPORT NO.		STD.	TYPE ====== MT	DATE	RESULT	CREDIT			
(RHR-2-385	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD.	TYPE ====== HT UT-45	DATE 19951222 19951226	RESULT	CREDIT TES YES YES		TYPE	RESOLUTIO
RHR-2-385	DESCRIPT.	ITEM NO.	REPORT NO. R00000021 R00000039 R00000038	REPORT NO.	STD.	TYPE ====== MT UT-45 MT	DATE	RESULT	CREDIT		TYPE	RESOLUTIO
RHR-2-385	DESCRIPT.	ITEM NO.	REPORT NO. R00000021 R00000039 R00000038	REPORT NO.	STD.	TYPE ====== MT UT-45 MT	DATE 19951222 19951226 19951228	RESULT	CREDIT TES YES YES		TYPE	RESOLUTIO
RHR-2-385	DESCRIPT.	ITEM NO.	REPORT NO. R00000021 R00000039 R00000038	REPORT NO.	STD.	TYPE ====== MT UT-45 MT	DATE 19951222 19951226 19951228	RESULT	CREDIT TES YES YES		TYPE GEOMETRIC	RESOLUTIO
FEATURE NUMBER IRHR-2-385 IRHR-2-393	DESCRIPT.	ITEM NO.	REPORT NO. R00000021 R00000039 R00000038 R00000056	REPORT NO.	STD. BF-98 BF-101	TYPE  MT UT-45 MT UT-45	DATE 19951222 19951226 19951228 19960102	RESULT PASS PASS PASS PASS PASS	CREDIT TES YES YES		TYPE GEOMETRIC GEOMETRIC GEOMETRIC	RESOLUTIO

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOOGA TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

4

•

.

NUTECH			BROWNS		EAR POW	ER PLAN ASE	r - UNIT 2	2			PRISI	н
, , ,			EXAN RE	TAGE EXAMI QUIREMENT ERVAL : 02	: 86E-0		CLE : 08				* PAGE * REVISI * DATE	
	SYSTEM ISOMETRIC N		RHRS RESIDU MSG-0018-C S		HOVAL S	YSTEN -	074	*******	******	******	*******	*****
			EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
FATURE NUMBER	*INTERINIS	3222222 <b>3</b>	==2=###=#=									

.

\$

.

1

.

,

x,

* NUTECH				TENNESSEE V							PRISI	4
,			BROWNS	FERRY NUCLI			- UNIT 2	2				
•	-		POST 01	ISI ITAGE EXAMII	DATA B		REPORT		~		*******	*******
				QUIREMENT			LE : 08				* PAGE	63
				ERVAL : 02		ERIOD :	2				* REVISIO	
											* DATE (	05/09/96
****************	*********	********	**********		******	*******						
	SYSTEM		RHRS RESIDU			STEN -	074					
	SISICH				NINE J	131En	VI 4					
	ISOMETRIC NU	MBER : M	4SG-0018-C S	HEET : 09								-
-	ISOMETRIC NU	MBER : N	4SG-0018-C S	SHEET : 09								-
, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ISOMETRIC NU	MBER :	45G-0018-C 5	HEET : 09	******	*******	*******	******	******	******	*********	******
*****	********	*******	*********	*******	CA1	FYAN	FYAM	FXAM	SFC XI	*******		
, *******************	CONPONENT	CATGORY/	EXAMINATION			EXAM TYPE	EXAM	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
******	CONPONENT	CATGORY/	*********									
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEN NO.	EXAMINATION REPORT NO.					RESULT				
EATURE NUHBER	COMPONENT DESCRIPT.	CATGORY/	EXAMINATION REPORT NO.		STD.	TYPE ======	DATE	RESULT	CREDIT	REQST.		RESOLUTION
EATURE NUMBER	COMPONENT DESCRIPT. PIPE -ELBOW	CATGORY/ ITEM NO. 	EXAMINATION REPORT NO. THE STREET R00000035 R00000048	CAL. REPORT NO.	STD.	TYPE ======	DATE 19951228	RESULT	CREDIT	REQST.	TYPE	
FEATURE NUMBER TRHR-2-035 TRHR-2-067	COMPONENT DESCRIPT. PIPE -ELBOW PIPE	CATGORY/ ITEN NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	STD.	TYPE =====* MT UT-45 MT	DATE 19951228 19951228	RESULT TTTTTT PASS PASS PASS	CREDIT TES YES YES	REQST.	TYPE	RESOLUTION

.

OWNER: TERMESSEE VALLEY AUTHORITY PLANT: BROVAS FERRY NUCLEAR PLANT NUCLEAR POYER GROUP ITOL MARKET STREET CHATTANOOGA TERMESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMSER FOR UNIT: NOT REQUIRED

\$

.

r K .

,

**5**4 ,

97 P

• КОТЕСН				TENNESSEE '							PRISI	4
, –			BROWNS	FERRY NUCLI			r - UNIT à	2				
			D067 0	ISI JTAGE EXAMI	DATA B		DEDOOT				********	*********
-				EQUIREMENT			CLE : 08				* PAGE	64
, ,				IERVAL : 02		ERIOD :	2				* REVISI * DATE	
***************	**********	********	**********	*********	******	******	********	******	******	******	************	**********
:	SYSTEM	: 6	RHRS RESIDU	JAL HEAT RE	HOVAL S	YSTEM -	074					
	ISONETRIC NU	JHBER : )	HSG-0018-C \$	SHEET : 10								
, 												
**************				**********	******	*******						
	COMPONENT	CATGORY/	EXAMINATIO	N CAL.	CAL.	EXAM	EXAM	EXAN	SEC XI	RELIEF	INDICATION	INDICATION
EATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE	EXAN DATE		SEC XI CREDIT		INDICATION TYPE	
EATURE NUMBER												
	DESCRIPT.							RESULT				INDICATION RESOLUTION
	DESCRIPT.	ITEN NO.	REPORT NO.	REPORT NO.	STD.	TYPE TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	DATE 19960122 19960125	RESULT	CREDIT TES YES			
	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD.	TYPE TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	DATE 19960122	RESULT	CREDIT			
RHR-2-029	REDUCER	ITEM NO.	REPORT NO.	REPORT NO.	STD.	TYPE TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	DATE 19960122 19960125	RESULT PASS PASS PASS PASS	CREDIT TES TES			
(RHR-2-029	DESCRIPT. REDUCER -VALVE PIPE	ITEN NO.	REPORT NO.	REPORT NO.	STD.	TYPE ====== MT UT-45 UT-60 HT	DATE 19960122 19960125 19960125	RESULT PASS PASS PASS PASS PASS	CREDIT TES YES YES			
RHR-2-029	DESCRIPT. REDUCER -VALVE PIPE	ITEN NO. 	REPORT NO. R00000073 R00000097 R00000097 R00000089	REPORT NO.	STD. ====== BF-39 BF-39	TYPE 	DATE 19960122 19960125 19960125 19960124	RESULT PASS PASS PASS PASS PASS PASS	CREDIT TES YES YES YES		TYPE	RESOLUTIO
RHR-2-029 RHR-2-110	REDUCER -VALVE PIPE -ELBOW	ITEN NO. 	REPORT NO. R00000073 R00000097 R00000097 R00000097 R00000089 R00000098	REPORT NO.	STD. BF-39 BF-39 BF-96	TYPE 	DATE 19960122 19960125 19960125 19960125 19960124 19960125	RESULT PASS PASS PASS PASS PASS PASS PASS	CREDIT YES YES YES YES YES YES		TYPE	RESOLUTIO
FEATURE NUMBER IRHR-2-029 IRHR-2-110 IRHR-2-459	REDUCER -VALVE PIPE -ELBOW	ITEM NO. C-F-2 C5.51 C-F-2 C5.51 C-F-2	REPORT NO. R00000073 R0000097 R0000097 R00000097 R00000098 R00000098	REPORT NO.	STD. BF-39 BF-39 BF-96	TYPE 	DATE 19960122 19960125 19960125 19960125 19960125 19960125	RESULT PASS PASS PASS PASS PASS PASS PASS PAS	CREDIT YES YES YES YES YES YES YES		TYPE	RESOLUTIO

.

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP TO KARKET STREET CHATTANOOGA TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUM3ER FOR UNIT: NOT REOURED

\$

...

.

...

NUTECH			BROWNS POST OU EXAM RE	TENNESSEE V FERRY NUCLI ISI TAGE EXAMII QUIREMENT ERVAL : 02	EAR POWE DATA BANATION F 86E-02	R PLANT ASE RESULTS	- UNIT 2 REPORT	2		-	PRISI ********** * PAGE * REVISIC * DATE (	65 65 0000
	SYSTEM ISOMETRIC NU		NHRS RESIDU 15G-0018-C S		HOVAL SI	(STEM -	074	******		*****	*********	
			EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE	EXAM RESULT		RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
IRHR-2-287		C-F-2 C5.51	R00000022	C00000011	BF-105		19951221 19951227		YES YES		GEONETRIC	NON-RELEVAN

•

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREE CHATTANDOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMSER FOR UNIT: NOT REOUIRED

\$

...

.

.'

~ ·

66000

÷

1 

Þ

.

.

•

NUTECH			ENNESSEE				2			PRISI	4
•		0007 011	ISI AGE EXAMI	DATA B		REDORT				******	**********
•		EXAM REG	UIREMENT	: 86E-0	2 CYC	CLE : 08				* PAGE	66
*		INTE	RVAL : 02	PI	ERIOD :	2				* REVISI * DATE	
		RHRSW RHR SER ISI-0145-C SH		R SYSTEI	1 - 023	********	******	******	******		********
		EXAMINATION REPORT NO. R			EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
2-17B300S0070	F-A F1.30B	R00000004			vī-3	19951205	PASS	YES			

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREE CHATTAXOOGA, TENNESSEE **37402** UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REDUIRED

\$

.

NUTECH			BROWNS		DATA B	R PLANT ASE	- UNIT 2	2			PRISI	1
			EXAM RE	TAGE EXAMI QUIREMENT ERVAL : 02	: 86E-02	2 CYC	LE : 08				* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC N		RHRSW RHR SE		*******	4 - 023	********	******	******	******	************	****
EATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE		EXAM RESULT	SEC XI CREDIT			INDICATI RESOLUTI
2-47B450R0027	RIG HGR	F-A F1.30B	R00000010			VT-3	19951207	PASS	YES			

•

OWNER: TENNESSEE VALLEY AUTHORITY HUCLEAR POWER GROUP 1101 JARRET STREET CHATTANOOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REOURED

m

\$

.

•*

.

٠

, . , . .

•

*.,

NUTECH				1	BROWNS POST OU	TENNESSEE FERRY NUCL ISI ITAGE EXAMI QUIREMENT ERVAL : 02	EAR POWE DATA BA NATION I : 86E-02	ER PLANT ASE RESULTS 2 CYC	REPORT	2			* PAGE * REVISI	**********
	SYSTER ISONET					R PRESSURE HEET : 02	••••••	(NUCLE/	AR BOILER	) - 068	******	*******	**********	********
						I CAL. REPORT NO.		EXAN TYPE	EXAN DATE		-	RELIEF REQST.	INDICATION TYPE	INDICATI RESOLUTI
RPV-INTERIOR	INT S	SUR	B-N-1 B13.10	R000	00337			VT-3	19960410	PASS	ĸo			

 OWNER:
 TERMESSEE VALLEY AUTHORITY
 PLANT:
 BEOVINS FERRY NUCLEAR PLANT

 NUCLEAR FOWER GROUP
 DECATOR:
 DECATOR:</

Ś

**,**¢

ł

4

.*

,

NUTECH		-	POST OL EXAM RI	TENNESSEE FERRY NUCL ISI UTAGE EXAMI EQUIREMENT TERVAL : 02	EAR POW DATA BANATION I 86E-02	ER PLANT ASE RESULTS	REPORT	2		'n	PRISH * PAGE * REVISIO * DATE	69 0000
	SYSTEM ISOMETRIC M		RPV REACTO		VESSEL	(NUCLE/	R BOILER	) - 068		-	****	****
FEATURE NUMBER			/ EXAMINATIO			EXAM TYPE	EXAM DATE	EXAM RESULT			INDICATION TYPE	INDICATION RESOLUTION
ICS-2-401	SAFEEND -CS NOZ	B-F B5. 10	R00000231 R00000330			PT UT-45	19960401 19960405	PASS	YES YES		650451010	
			R00000330 R00000330	C00000157 C00000156		UT-45 UT-45L	19960405 19960404		YES YES YES		GEONETRIC	NON-RELEVAN

OWNER: TERMESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP TIOL MARKET STREE CRATTAXXXXX, TEAMESSEE 37402 UNIT: TV/O COMMERICAL SERVICE DATE: MARCH 1, 1975 COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL & DARD NUMBER FOR UNIT: NOT REQUIRED

\$

.

00103

-

,

'ú

* ·

XUTECH	TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 ISI DATA BASE POST OUTAGE EXAMINATION RESULTS REPORT EXAM REQUIREMENT : 86E-02 CYCLE : 08 INTERVAL : 02 PERIOO : 2 .									PRISIM * PAGE 70 * REVISION 0000 * DATE 05/09/96		
	SYSTEM ISOMETRIC NU	JNBER :		*********	VESSEL	(NUCLE/	AR BOILER	) - 068	SEC XI	DCI 155	INDICATION	INDICATION
FEATURE NUMBER	DESCRIPT.		REPORT NO.			TYPE	DATE		CREDIT		TYPE	RESOLUTION
******************												

•

.

OWNER: TEXNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP TION MARKET STREE CHATTANOOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD MUN2ER FOR UNIT: MOT REQUIRED

\$

••

4

..

.

.



•

·

a.

L

NUTECH			BROWNS		DATA BA	ER PLANI ASE	r - UNIT 2	2			PRISI	1
, , ,			EXAN RE	TAGE EXAMI QUIREMENT ERVAL : 02	: 86E-02	2 CYC	LE : 08				* PAGE * REVISIO * DATE	
••••••	SYSTEN ISONETRIC N		RPV REACTO		VESSEL	(NUCLE/	AR BOILER	) - 068	******	******	****	******
FEATURE NUMBER			EXAMINATION REPORT NO.			EXAN TYPE	-			RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
CRDN-2-3427-BC	CH BLTG	B-G-2 B7.80	R00000302			VT-1	19960407	PASS	YES		-	

.

٠

OWNER: TEXNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP THOT MARKET STREET CHATTANOOGA, TENNESSEE 37402 UNIT: TWO · CERTIFICATE OF AUTHORIZATION: NOT REOUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMSER FOR UNIT: NOT REOUIRED

\$

...

.

..

Ξ

Æ

· · ·

• • •

N

NUTECH				ENNESSEE	EAR POW	ER PLANT		2			PRISIM	l
*			POST OUT	ISI AGE EXAMI	DATA B/		REPORT				******	*******
• •				WIREMENT RVAL : 02		2 CYC ERIOD :	LE : 08 2				* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC N		RHRS RESIDU/ ISI-0324-C SI		MOVAL S'	YSTEM -	074	*****	*****	******	*****	*******
FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO. 1			EXAM TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATIO RESOLUTIO
2-478452H0036	HVSPG 2	F-A F1.20C	R00000093			VT-3	19960126	PASS	YES			
			R00000094				19960126	PASS	YES			
2-478452H0038	RIG HGR	F-A F1.20A	KUUUUUU94			VT-3	19900120					
2-478452H0038 2-478452H0083	RIG HGR VSPRING		R00000094			vr-3 vr-3	19960125		YES			

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOOGA TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED . PLANT: BROYANS FERRY NUCLEAR PLANT DECATUR, ALABAMA 35502

\$

٠.

8

: ÷

.

æ

+ NUTECH			BROWNS Post ou Exam re	TAGE EXAMI	EAR POW DATA BANATION I : A01-0	ER PLANI ASE RESULTS 2 CYO	r - Unit : REPORT CLE : 08				PRISI	2
* * * * * * * * * * * * * * * * * * * *	**********	*******	INT	ERVAL : 02	PI	ERICO :	2	******	******	******	* REVISIO * DATE	
	SYSTEM ISOMETRIC NU		RHRS RESIDU		HOVAL S	rstem -	074	******	******	******	****	******
FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE	EXAM RESULT		RELIEF REQST.	INDICATION TYPE	INDICATI RESOLUTI
FEATURE NUMBER 2-47845280090		ITEM NO.						RESULT				
*****	DESCRIPT.	ITEM NO.	REPORT NO.			TYPE =====	DATE	RESULT	CREDIT			RESOLUTI

----

74

.

×

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMSER FOR UNIT: NOT REQUIRED OWNER: TENNESSEE VALLEY AUTIORITY HUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 PLANT: BROWNIS FERRY NUCLEAR PLANT P.O. 80X 2000 DECATUR, ALABAMA 33502

Ş

.

.*

×

.

×

•

ø

.

-

~

2 ^{- 1}

*****	***********												
NUTECH				NNESSEE				, '			PRISI	M	
			BROWNS FE		DATA B		- UNIT 2						
			POST OUTA				REPORT				*******	*******	***
			EXAM REQU	IREMENT	: A01-02	2 CYC	LE : 08				* PAGE	3	
			INTER	VAL : 02	PI	ERIOD :	2					ON 0000	
				*******			*******	******	******	******	" UAIE	05/09/96	***
					~~~~~~~								
	SYSTEM	• 9	PHRS RESIDUAL	HEAT REP	HOVAL SI	STEM -	074						
	SYSTEM ISOMETRIC NU		RHRS RESIDUAL		MOVAL SI	rstem -	074						
					HOVAL SI	rstem -	074						
					HOVAL SI	rstem -	*****	******	******	******	*****	*******	* * 1
	ISOMETRIC NU	MBER : 1	ISI-0324-C SHE	ET : 03	******		******	EXAN	SEC XI	RELIEF	INDICATION	INDICAT	**
******	ISOMETRIC NU	MBER : 1		ET : 03	******** CAL.	EXAM	*******	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICAT RESOLUT	
******	ISOMETRIC NU	MBER : 1	EXAMINATION	ET : 03	******** CAL.	EXAN	EXAM						
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEN NO.	EXAMINATION REPORT NO. RE	ET : 03	******** CAL.	EXAN TYPE	EXAM DATE	RESULT	CREDIT				
ATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION	ET : 03	******** CAL.	EXAN TYPE	EXAM	RESULT					
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEN NO.	EXAMINATION REPORT NO. RE	ET : 03	******** CAL.	EXAN TYPE	EXAM DATE	RESULT	CREDIT				
	COMPONENT DESCRIPT.	CATGORY/ ITEM NO. F-A F1.20C	EXAMINATION REPORT NO. RE	ET : 03	******** CAL.	EXAN TYPE ===== VT-3	EXAM DATE	RESULT	CREDIT				

•

.

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMSER FOR UNIT: NOT REQUIRED

\$

.

..

		*******	TENNECC	EE VALLEY	AUTHORIT	Y				PRISI	4	,
NUTECH			BROWNS FERRY N				2	-			-	1
				ISI DATA B						*******		••
			POST OUTAGE EX EXAN REQUIRENE							* PAGE	4	
			INTERVAL :		ERIOD :					* REVISIO	DN 0000	
				•-		-				* DATE	05/09/96	
**************	*********	*******	**********	********	*******	*******	******	*******	*******	***********	*********	TH
			THRS RESIDUAL HEAT		YSTEN -	074						
	SYSTEM			KENOTAL 3	iaitu -	~ ~						
	ISOMETRIC M	IMBER : 1	S1-0324-C SHEET :	05								
. 1	ISOMETRIC NU	MBER : I	ISI-0324-C SHEET :	05								
, , ******************	ISOMETRIC NU	MBER : 1	SI-0324-C SHEET :	05 ******	*******	******	******	******	******	*********	******	n in in
, , 	*********	*******	******	*******	********	EXAM	EXAN	SEC XI	RELIEF	INDICATION	INDICATI	** ON
	COMPONENT	CATGORY/	ISI-0324-C SHEET : EXAMINATION CAL. REPORT NO. REPORT	********** CAL.	EXAM TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATI RESOLUTI	-
EATURE NUMBER	COMPONENT	CATGORY/	EXAMINATION CAL.	********** CAL.	EXAM TYPE							
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION CAL. REPORT NO. REPORT	********** CAL.	TYPE	DATE	RESULT	CREDIT				
	COMPONENT DESCRIPT.	CATGORY/ ITEM NO. EXXEST	EXAMINATION CAL.	********** CAL.	TYPE		RESULT					-
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION CAL. REPORT NO. REPORT	********** CAL.	TYPE ====== VT-3	DATE	RESULT	CREDIT				-

OVWER: TENNESSEE VALLEY AUTHORITY PLANT: EROWAS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOCGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL SOARD NUMBER FOR UNIT: NOT REQUIRED

\$

¥

*

e

.

..

.

ι,

NUTECH			BROWNS Post ou Exam re	TENNESSEE FERRY MUCL ISI ITAGE EXAMI QUIREMENT ERVAL : 02	EAR POW DATA B NATION : A01-0	ER PLAN ASE RESULTS	r - UNIT : REPORT CLE : 08			-	PRISI * PAGE * REVISI * DATE	5 0N 0000
	SYSTEM ISOMETRIC M		RHRS RESIDU		HOVAL S	YSTEM -	074					
***************	COMPONENT	CATGORY/	EXAMINATION	**********	*******	*******	EXAH	EXAN	SEC XI	********	INDICATION	**************************************
FEATURE NUMBER			EXAMINATION REPORT NO.		CAL. STD.	EXAN TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
		ITEM NO.						RESULT	CREDIT	REQST.		RESOLUTIO
EATURE NUMBER HRG-2-12-C HRG-2-13-C	DESCRIPT.	ITEM NO.	REPORT NO.			TYPE =====	DATE	RESULT	CREDIT	REQST.	TYPE	RESOLUTIO

÷

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR FLANT NUCLEAR FORMER GROUP CHATTANOOGA TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR JUNIT: NOT REQUIRED

\$

..

4

...

٠

NUTECH	*****	*******	TENNESSEE BROWNS FERRY NUCL	EAR POW	ER PLANT		2			PRISIM	
			ISJ POST OUTAGE EXAMJ EXAM REQUIREMENT INTERVAL : 07	: A02-0	RESULTS	LE : 08	******	******	******	* PAGE * REVISIO * DATE 0	
	SYSTEM ISOMETRIC NU	: F MBER : 1	RHRS RESIDUAL HEAT RE ISI-0406-C SHEET : 01	EMOVAL S	YSTEH -	074	******	******	******	******	***
ATURE NUMBER			EXAMINATION CAL. REPORT NO. REPORT NO.	CAL. . SID.	EXAN TYPE	EXAN DATE	RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATIO RESOLUTIO
RG-2-12-8	VES SUP	F-A F1.40B	R00000145		VT-3	19960221	PASS	YES			
RG-2-12-D	VES SUP	F-A F1.40B	R00000144		VT-3	19960221	PASS	YES			
IRG-2-13-B	VES SUP	F-A F1.40B	R00000142		VT-3	19960221	PASS	YES			
IRG-2-13-D	VES SUP	F-A F1.40B	R00000143		vt-3	19960221	PASS	YES			
IRG-2-14-8	VES SUP	F-A F1.408	R00000141		VT-3	19960221	PASS	YES			
IRG-2-14-D	VES SUP	F-A F1.40B	R00000146		vt-3	19960221	FAIL	YES		LOOSE BOLTIN	BLING TOR

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POX/RECEINESSEE 37402 CHATTANOOGA TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED-COMMERICAL SERVICE DATE: MARCH 1, 1975 MATIONAL GOARD NUMZER FOR JUNT: NOT REQUIRED-

\$

×

.....

•

ж

- #

.

1

..

٠

.

~

1	* NUTECH					EAR POW DATA B	ER PLAN ASE	T - UNIT	2			PRISI	4
•	* * *			EXAM R	UTAGE EXAMI EQUIREMENT TERVAL : 02	: R01-0	2 CY	CLE : 08	******	******	******	* PAGE * REVISIO * DATE	
•		SYSTEM ISOMETRIC NU		RHRS RESID ISI-0324-C		MOVAL S	YSTEH -	074	******	-	******	******	******
	FEATURE NUMBER		ITEM NO.	EXAMINATIO REPORT NO.			EXAM TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATIO RESOLUTIO
	2-478452R0054	h snub	F-A F1.20C	R00000256			VI-3	19960403	PASS	YES			

.

.

*

e =

OWKER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GOUP 1101 MARKEY CHATTANOOGA, TENNESSEE 37402 UNIT: TUM UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED PLANT: BEDWANS FEARY NUCLEAR PLANT P.O. 60X 2000 DECATUR, ALABAMA 33602

Ş

...

,

,

.

a in

4

•

00112

,...

. . = ٩

*

·

NUTECH		*****	BROWNS		EAR PO	VER PLANT BASE	r - UNIT 3	2			PRISI	
	*****	*******	EXAM RE	TAGE EXAMI OUIREMENT ERVAL : 02	: R01-		CLE : 08	******	******	-	* PAGE * REVISI * DATE	
	SYSTEM ISOMETRIC NU		RHRS RESIDU		HOVAL	SYSTEM -	074	*****	******	******	*******	******
EATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE	EXAM RESULT		RELIEF REQST.	INDICATION TYPE	INDICATIO RESOLUTIO
*****								RESULT				-
EATURE NUMBER	DESCRIPT.	ITEM NO.	REPORT NO.			TYPE = ======	DATE	RESULT	CREDIT			-

 OWNER: TERMESSEE VALLEY AUTHORITY
 PLANT: BROWNS FEARY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 DO MARKET STRET

 100 MARKET STRET
 DECATUR, ALABAMA 33602

 CHATTANCOGA TENESSEE 37402
 DECATUR, ALABAMA 33602

 UNIT: TWO
 CERTIFICATE OF AUTHORIZATION: NOT REDUIRED

 COMMERICAL SERVICE DATE: MARCH 1, 1975
 COMMERICAL SERVICE DATE: MARCH 1, 1975

\$

.

4

.*

,

+ NUTECH			BROWNS		EAR POW	ER PLANI ASE	- UNIT 2	2			PRISI	-
* * •			EXAM RE	TAGE EXAMI OUIREMENT ERVAL : 02	: R02-0	2 CYC	LE : 08				* PAGE * REVISIO * DATE	1 0000 אכ
	SYSTEM ISOMETRIC NU		RHRS RESIDU ISI-0406-C S		HOVAL S	YSTEM -	074	******	*****	******	*******	******
			EXAMINATION REPORT NO.			EXAN TYPE		EXAM RESULT			INDICATION TYPE	INDICATIO RESOLUTIO
RHRG-2-14-D	VES SUP	F-A F1.408	R00000310			vt-3	19960408	PASS	YES			

OWNER: TEINESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP CHATTANDOGA, TEINESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

...

•



,

1

T.

ţ

۵ ۰ ۰

.

NUTECH		a	BROWNS FERRY NU I POST OUTAGE EXA	SI DATA B. MINATION	ER PLANT ASE RESULTS	- UNIT 2 REPORT	2			PRISIP ********** * PAGE	l ************************************
*			EXAM REQUIREMEN INTERVAL :		2 CIL ERIOD :	LE : 08 2		******	******	* REVISIO * DATE (
	SYSTEM ISOMETRIC NU		RECIR REACTOR WATER		TING SYS	STEM - 064	3	*****	******	******	-
FEATURE NUMBER			EXAMINATION CAL. REPORT NO. REPORT N		EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
2-47B408S0056	CFORCE2	F-A F1.40C	R00000234		VT-3	19960401	PASS	YES		-	
2-47B408S0066	C FORCE	F-A	R00000236		VT-3	19960401	PASS	YES		-	

.

 $|\mathbf{r}| = \mathbf{I}$

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POATER GROUP 1101 MARKET STREES CHATTANDOGA TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD HUMBER FOR UNIT: NOT REQUIRED

\$

....

.

.*

00115

· · ·

NUTECH		*******	BROWNS I POST OU EXAM REG	IENNESSEE FERRY NUCL ISI IAGE EXAMI DUIREMENT ERVAL : 02	EAR POW DATA B NATION : R15-0	ER PLAN ASE RESULTS 2 CY	T - UNIT : REPORT CLE : 08			.	PRISI PRISI * PAGE * REVISIC * DATE (2 N 0000
-	SYSTEM ISOMETRIC N	: I UMBER : I	RECIR REACTO	R WATER RE HEET : 02	CIRCULA	TING SY	STEM - 06	8				
FEATURE NUNBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO. 1	CAL. REPORT NO.	CAL. STD.	EXAM . TYPE	DATE	EXAM RESULT	SEC XI CREDIT	REQST.		RESOLUTION
2-47840850051	C FORCE	F-A F1.40C	R00000233			vt-3	19960401	PASS	YES			
-	-			-								
·			-									

r F

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 PO. BOX 2000

 1100 MLRAFT STREET
 PO. BOX 2000

 CHATTA/SCOL TENNESSEE 37402
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 KIARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

.

...

\$

¥

.

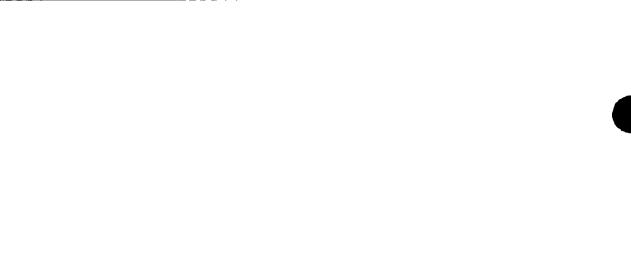
٠

•

.

91:00

-



Y

• NUTECH				TENNESSEE	VALLEY	AUTHORI	TY				PRISI	м
			BROWNS	FERRY NUC				2				
, -			•••••		I DATA			-				
			POST O	UTAGE EXAN	INATION	RESULTS	REPORT				*******	*********
				EQUIREMENT			'CLE : 08				PAGE	1
			IN	TERVAL : C	12	PERICO :	2					ON 0000
											* DATE	05/21/96
	**********	********	**********	*********	*******	*******					*********	*********
	SYSTEM		HPCIS HIGH		THA LOO			. 071				
	ISONETRIC N					INJECTIO	M 31312M	- 0/5				
	IJONCINIC N	UNDER .	131-0130-0	JALLI . UI								
				*********	******	*******	********	******	******	******	**********	*********
	***********	*********										
	COMPONENT	CATGORY/	EXAMINATIO	N CAL.	CAL.			EXAN			INDICATION	INDICATIO
ATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATIO REPORT NO.			EXAN TYPE	EXAN DATE	_	SEC XI CREDIT		INDICATION TYPE	INDICATIO RESOLUTIO
EATURE NUMBER								_			*****	
*************	DESCRIPT.	ITEM NO.	REPORT NO.			TYPE	DATE	RESULT	CREDIT		*****	
*************		ITEM NO.				TYPE		RESULT			*****	
*************	DESCRIPT.	ITEM NO.	REPORT NO.			TYPE	DATE	RESULT	CREDIT		*****	
-47B455H0056	DESCRIPT.	ITEM NO.	REPORT NO.			TYPE 	DATE 19960112	RESULT	CREDIT		TYPE	RESOLUTIO
-47845580056	DESCRIPT.	ITEM NO.	REPORT NO.			TYPE	DATE	RESULT PASS ENGR	CREDIT		*****	RESOLUTIO
-47845580056	DESCRIPT.	ITEM NO. F-A F1.20C F-A	REPORT NO. R00000158 R00000159			TYPE ••••••• VT-3 VT-3	DATE 19960112 19960112	RESULT PASS ENGR	CREDIT TES YES		TYPE	RESOLUTIO
478455H0056 478455H0059	DESCRIPT.	ITEM NO. F-A F1.20C F-A	REPORT NO. R00000158 R00000159			TYPE ••••••• VT-3 VT-3	DATE 19960112 19960112	RESULT PASS ENGR PASS	CREDIT TES YES		TYPE	RESOLUTIO
478455x0056 478455x0059	DESCRIPT. VSPRING VSPRING	F-A F1.20C F-A F1.20C	R00000158 R00000159 R00000162			TTPE VT-3 VT-3 VT-3 VT-3	19960112 19960112 19960223	RESULT PASS ENGR PASS ENGR	CREDIT YES YES YES		TYPE	RESOLUTIO
-478455H0056 -478455H0059 -478455H0060	DESCRIPT. VSPRING VSPRING VSPRING VSPRING	ITEM NO. F-A F1.20C F-A F1.20C F-A	R00000158 R00000159 R00000162 R00000160 R00000163			VI-3 VI-3 VI-3 VI-3 VI-3 VI-3	DATE 19960112 19960112 19960223 19960112 19960123	RESULT PASS ENGR PASS ENGR PASS	YES YES YES YES YES YES YES	REQST.	TYPE INC SETTING	RESOLUTIO SET AXAL O
EATURE NUMBER 2-478455H0056 2-478455H0059 2-478455H0060	DESCRIPT. VSPRING VSPRING	ITEM NO. F-A F1.20C F-A F1.20C F-A	R00000158 R00000159 R00000162 R00000160			TYPE VI-3 VI-3 VI-3 VI-3 VI-3	DATE 19960112 19960112 19960223 19960112	RESULT PASS ENGR PASS ENGR PASS ENGR	CREDIT YES YES YES YES	REQST.	TYPE	RESOLUTIO SET AXAL O

CHATTANDES L VALLEY AUTHORITY NUCLEAR POWER GROUP TO MARKET STREET CHATTANDOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

`**{**

.

•

•

.

.

..

MAIN STEAM SYSTEM - 001 12-C SHEET : 06 MATION CAL. CAL EXAM EXAM EXAM EXAM SEC XI RELIEF INDICATION INDICATION T NO. REPORTING. STD. TYPE DATE: RESULT GEDIT REDST. TYPE RESOLUTION 0275 VT-3 19960405 PASS YES
--

.

• Ŧ

٠

. .

N N

 $\frac{1-\infty}{1-\alpha} = \frac{1-\alpha}{1-\alpha}$

NUTECH		-		TENNESSEE		ER PLANT		2		, 	PRISI	4
* * *		F	EXAM RE	JTAGE EXAMI EQUIREMENT IERVAL : 02	NATION R19-0	RESULTS	CLE : 08				* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC M		FWS FEEDW/ ISI-0269-C S		- 003	*******		*****	******	******	************	**********
FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE		SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATIO RESOLUTIO
5-568-BC	VALBLTG	8-G-2 87.70	R00000299			VT-1	19960406	PASS	YES			

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT; BROWNS FEGRY NUCLEAR PLANT NUCLEAR POWER GROUP IND WRAFTS STREET CHATTANOGA, TENNESSEE 37402
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

...

.

.

.

.

· · · ·

• NUTECH				TENNESSEE	VALLEY /	AUTHORIT	Y				PRISI	4
,			BROWNS	FERRY NUCL			- UNIT 2	2				
1				ISI TAGE EXAMI	DATA B		BEDODT	-			*******	INDICATION INDICATIO
				DUIREMENT			LE : 08			* PAGE 2 * * REVISION 0000 * * DATE 05/09/96 * * XI RELIEF INDICATION INDICATION DIT REQST. TYPE RESOLUTION		
				ERVAL : 02		ERICO :						0000 NC
1							-					
***********	*********	********	***********	**********	******	******	*********					
:	SYSTEM	:)	ISS MAIN S	TEAM SYSTE	M - 001							
,	ISOMETRIC NU	MBER : 1	ISI-0312-B S	HEET : 01								-
	ISOMETRIC NU	MBER : 1	ISI-0312-B S	HEET : 01	******				******	******		-
******	ISOMETRIC HL	MBER : 1	ISI-0312-B S	HEET : 01	******	*******	*******	******	*****	******	* PAGE 2 * REVISION 0000 * DATE 05/09/96 F INDICATION INDICATIO	
, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******	*******	******	*******	*******	EXAH	EXAN	EXAH	SEC XI	RELIEF	INDICATION	INDICATIO
*******************	COMPONENT	CATGORY/	EXAMINATION	********** CAL.		EXAN TYPE	EXAM DATE					
******	COMPONENT	CATGORY/	EXAMINATION	********** CAL.								
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEN NO.	EXAMINATION REPORT NO.	********** CAL.		TYPE	DATE	RESULT	CREDIT			
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEN NO.	EXAMINATION REPORT NO.	********** CAL.		TYPE	DATE	RESULT	CREDIT			
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEN NO.	EXAMINATION REPORT NO.	********** CAL.		TYPE	DATE	RESULT	CREDIT			
FEATURE NUMBER	COMPONENT DESCRIPT. THE VALBLTG	CATGORY/ ITEN NO.	EXAMINATION REPORT NO.	********** CAL.		TYPE	DATE	RESULT TETTE PASS PASS	CREDIT			

OVNER: TENRESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARYET STREET CHATTANOOGA TENNESSEE 37402 UNIT: TWO CERTIFICATE COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REDUIRED CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: BROWNS FERRY RUCLEAR PLANT P.O. 50X 2000 DECATUR, ALABAMA 35602

£

NUTECH				TENNESSEE							PRISI	1
			BROWNS	FERRY NUCLI			- UNIT à	2				
			00007 00	ISI TAGE EXAMI	DATA B		REDORT				*******	********
				QUIREMENT			LE : 08				* PAGE	3
				ERVAL : 02		ERICO :					* REVISIO	-
			••								* DATE (05/09/96
**************	*******	********	********	********	******	******	*******	******	******	******	**********	********
	SYSTEM		RPV REACTO		VESSEL	(RUCLE/	AR BUILER) - 008				
	ISOMETRIC N	UMBER :	51-0292-0 5	ncci : 01								
*********	*******	********	*******	*******	******	******	*******	******	******	******	******	*******
		A. 7 AAAA Y /			C 41	EVAN	EXAM	EXAM		051 155	INDICATION	INDICATIO
EATURE NUMBER			EXAMINATION REPORT NO.		CAL.	EXAM TYPE	DATE		CREDIT		TYPE	RESOLUTIO
CATORE NUMBER	DESCRIPT.			#198111111	22222E							
							7					
RDN-2-0219-BC	BOLTS	B-G-2	R00000188			VT-1	19960123	PASS	YES			
		87.80		•								
RDN-2-0223-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES			
,KUN-2-022J-06	00010	B7.80	Recordence			•••••	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
RDN-2-0227-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES			
		B7.80										
RDN-2-0231-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	2249	YES			
.KUN-2-0231-86	DULIS	87.80	x00000101			••••	(7700120	I AGG	100			
RDN-2-0235-BC	BOLTS	8-G-2	R00000187			VT-1	19960123	PASS	YES			
		B7.8 0										-
RDN-2-0243-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES			
KDN-2-024J-DC	BULIS	B7.80	K00000107		-	••••	17700123	1730	120			
RDN-2-0615-BC	BOLTS	8-G-2	R00000187			VT-1	19960123	PASS	YES			
		B7.80										
00W-2-0427-00		B-G-2	R00000187			VT-1	19960123	DACC	YES			
RDN-2-0623-BC	BOLTS	B7.80	KUUUUU107			41-1	19900123	PASS	163			
		01.00										
RDN-2-0631-BC	BOLTS	8-G-2	R00000187			VT-1	19960123	PASS	YES			
		87.80										
	BOLTS	B-G-2	R00000187			VT-1	19960123	DACC	YES			
CRDN-2-0635-BC	BOLIS	8-G-2 B7.80	KUUUUU187			VI-1	19900123	PASS	165			
		07.00										
RDN-2-0643-8C	BOLTS	B-G-2	R00000188			VT-1	19960123	PASS	YES			
		B7.80										

.

.

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP CHATTAVOOGA TENNESSEE 27402 COMMERICAL SERVICE DATE: MARCH 1, 1975 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED. PLANT: BROWCIS FERSY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602 ÷

\$

...

UNIT:

WO

NATIONAL BOARD NUMBER FOR WHT: NOT REQUIRED

.

12800

: -

.

..

٠

٠

*************	******	********	*********	********	******	******	********	******		****	************	***********
NUTECH				TENNESSEE Y				,			PRISIN	* *
,			BROWNS		DATA B		- UNIT 2	2				*
•			POST OL	ITAGE EXANII		RESULTS					******	******
				QUIREMENT			LE : 08				* PAGE	4 *
			IN1	ERVAL : 02	P	ERIOD :	۲				* REVISIO * DATE O	
***************************************	**********	********							-			*
•	SYSTEM	: 1	RPV REACTO	R PRESSURE	VESSEL	(NUCLE/	R BOILER) - 068				*
•	ISOMETRIC N	UMBER :	ISI-0292-C S	SHEET : 01								*
, , , , , , , , , , , , , , , , , , , ,	*********	*******	*********	********	******	******	*******	******	******	*****	***********	*********
FEATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.	REPORT NO.	CAL. STD.	EXAN TYPE	EXAM DATE	RESULT	CREDIT	REQST.	INDICATION TYPE	INDICATION RESOLUTION
CRDN-2-1011-8C	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
ĈRDN-2-1019-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-1027-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-1039-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-1043-BC	BOLTS	B-G-2 87.80	R00000187			VT-1	19960123	PASS	YES		•	
CRDN-2-1047-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-1051-BC	CH BLTG	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
CPDN-2-1411-BC	BOLTS	B-G-2 87.80	R00000188			VT-1	19960123	PASS	YES			
CRON-2-1415-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-1423-BC	BOLTS	B-G-2 B7.80	R00000188			VT-1	19960123	PASS	YES			
CRDN-2-1427-8C	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			

OWNER: TEINESSEE VALLEY AUTHORITY NUCLEAN POWER GROUP 1101 MARKET STREET CHATTAYDOGA TEANESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR JUIT: NOT REQUIRED PLANT: BADWAYS FERRY NUCLEAR PLANT P.O. POX 2000 DECATUR, ALABANA 35502

.

ń

\$

~

....

..

• --

.

,

00122

*

.

NUTECH				TENNESSEE FERRY NUCL				2			PRISI	1
,					DATA B							
,				TAGE EXAMI							*******	-
7 9 7				QUIREMENT ERVAL : 02		Z CYC ERIOD :					* PAGE * REVISIO * DATE	
************	*********	********	*******	******	******	******	*******	******	******	******	********	*******
	SYSTEM ISOMETRIC NU		PV REACTO		VESSEL	(NUCLE/	AR BOILER)) - 068				-
*****************							EXAM				INDICATION	INDICATION
EATURE NUMBER	DESCRIPT.	ITEN NO.	EXAMINATION REPORT NO.	REPORT NO.	STD.	TYPE	DATE	RESULT	CREDIT	REQST.	TYPE	RESOLUTION
CRDN-2-1435-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-1443-BC	BOLTS	B-G-2 B7.80	R00000187	-		VT-1	19960123	PASS	YES			
CRDN-2-1451-BC	CH BLTG	B-G-2 B7.80	R00000188			VT-1	19960123	PASS	YES			
CRDN-2-1807-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-1815-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-1823-BC	BOLTS	B-G-2 B7.80	R00000188			vī-1	19960123	PASS	YES			
CRDN-2-1827-BC	BOLTS	B-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-1831-BC	BOLTS	B-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			,
CRDN-2-1843-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-1847-BC	BOLTS	B-G-2 B7.80	R00000188			VT-1	19960123	PASS	YES			1
CRDN-2-1851-BC	BOLTS	8-G-2 87.80	R00000188			VT-1	19960123	PASS	YES			

-

OWHER: TENNESSEE VALLEY AUTHORITY NUCLEAR FOWER GROUP 1011/ARKET SIPEET CHATTA:NOOSA TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: IVARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

s

••

-

.

•

.

-

.

Ŧ

NUTECH	*********	******	BROWNS POST OU EXAM RE	TENNESSEE	VALLEY A EAR POWE DATA BA NATION I RATION I	AUTHORIT ER PLANT ASE RESULTS	REPORT			*****	PRISIN * PAGE * REVISIO * DATE (6 0000 KG
	SYSTEM ISOMETRIC NU	MBER :		HEET : 01		-				******	-	*****
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAN DATE	EXAN RESULT	SEC XI CREDIT	REQST.		INDICATION RESOLUTION
RDN-2-1855-BC	BOLTS	8-G-2 87.80	R00000187		-	VT-1	19960123	PASS	YES			
RDN-2-2203-BC	BOLTS	8-G-2 87.80	R00000188			VT-1	19960123	PASS	YES			
RDN-2-2207-8C	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-2211-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-2215-BC	BOLTS	B-G-2 B7.80	R00000187			Ňт-1	19960123	PASS	YES			
RDN-2-2227-BC	BOLTS	8-G-2 87.80	R00000188			VT-1	19960123	PASS	YES			
CRDN-2-2231-BC	BOLTS	B-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-2235-BC	BOLTS	B-G-2 B7.80	R00000188			VI-1	19960123	PASS	YES			
RDN-2-2243-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-2247-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-2251-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			

.

٠

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANDOSA, TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMIZERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

•

.

~

NUTECH				TENNESSEE	VALLEY	AUTHORIT	۲ ۲	_			PRISI	1
•				151	DATA B	ASE ·		-				
* * *			EXAN RE	TAGE EXAMI QUIREMENT ERVAL : 02	: R19-0 P	2 CYC ERICO :	LE : 08	*****	******	*******	* PAGE * REVISIO * DATE	7 0000 KC
* *	SYSTEN ISOMETRIC N	UMBER : I		HEET : 01						******	******	*****
FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	I CAL. REPORT NO.	CAL.	EXAM TYPE	EXAN DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATIO RESOLUTIO
*****************	***********	********		*********		*****	******		*****	******		8285252222
CRDN-2-2259-BC	BOLTS	8-G-2 87,80	R00000188			VT-1	19960123	PASS	YES			
CRDN-2-2603-BC	BOLTS	8-G-2 87.80	R00000187	_		VT-1	19960123	PASS	YES			
CRDN-2-2607-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-2611-BC	BOLTS	B-G-2 87.80	R00000188			VT-1	19960123	PASS	YES			
CRDN-2-2619-BC	BOLTS	8-G-2 87.80	R00000187		•	VT-1	19960123	PASS	YES			
CRDN-2-2627-BC	BOLTS	B-G-2 87.80	R00000188			VT-1	19960123	PASS	YES			
CRDN-2-2635-BC	BOLTS	8-G-2 87.80	R00000188			VT-1	19960123	PASS	YES			
CRDN-2-2639-BC	BOLTS	B-G-2 87.80	R00000188 ,			VŦ-1	19960123	PASS	YES			
CRDN-2-2643-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES	-		
CRDN-2-2647-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
CRDN-2-2651-BC	BOLTS	B-G-2 B7.80	R00000188			VT-1	19960123	PASS	YES			

UNIT: COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED OWRER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTAYOOGA, TENNESSEE 37402 TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: BROWMS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602 2

\$

`

...

7

.

.

.

,

*

00125

-

4

-

.

NUTECH			BROWNS F POST OUT EXAM REC INTE	ENNESSEE ERRY NUCLI ISI AGE EXAMIN UIREMENT RVAL : 02	EAR POW DATA BANATION I RATION I R19-03 Pi	ER PLANT ASE RESULTS 2 CYC ERIOD :	REPORT			****	PRISIM * PAGE * REVISIO * DATE C	8 8 W 0000
· .		UMBER :	RPV REACTOR	IEET : 01					*****	******	*****	******
EATURE NUMBER	COMPONENT	CATGORY/	EXAMINATION	CAL.	CAL.		EXAM	EXAM RESULT	SEC XI	RELIEF	INDICATION TYPE	RESOLUTIO
CRDN-2-2655-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-3003-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-3007-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-3011-BC	BOLTS	B-G-2 87.80	R00000188			VT-1	19960123	PASS	YES			
RDN-2-3019-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-3027-BC	BOLTS	B-G-2 B7.80	R00000188			vt-1	19960123	PASS	YES			
RDN-2-3031-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-3035-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-3043-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-3047-BC •	BOLTS	B-G-2 87.80	R00000187			vī-1	19960123	PASS	YES			1
RDN-2-3051-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			

 OWNER:
 TERNESSEE VALLEY AUTHORITY
 PLANT:
 BROWANS FERRY NUCLEAR PLANT

 NUCLEAR POVER GROUP
 DO BOXANS FERRY NUCLEAR PLANT
 DO BOXANS FERRY NUCLEAR PLANT

 1101
 MARKIT SINCET
 DO BOXANS FERRY NUCLEAR PLANT

 UNIT:
 TWO
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

.

.

••

001.26

INITEOU	/			TENNESSEE			Y	1			PRISI	4	*
NUTECH				FERRY NUCLI				2	$\mathbf{}$		- FRIGIE	• -	1
			Dicourto		DATA B		••	-				-	۱
				TAGE EXAMI							*******	*********	181
				QUIREMENT			LE : 08				* PAGE * REVISIO	9	
			INI	ERVAL : 02	P	ER100 :	2				* DATE		
******	********	*******	********	********	******	******	*******	******	******	*******	*********	********	2#
	SYSTEM ISOMETRIC N		REACTO		VESSEL	(NUCLEA	R BOILER) - 068					
-	-	JABEK I	51-0292-0 5	NCCI : VI									
*******	*******	*******	******	*******	******	*******	******	******	******	******	***********	********	r#
	COMPONENT	CATGORY/	EXAMINATION	CAL.	CAL.	EXAM	EXAM	EXAN	SEC XI	RELIEF	INDICATION	INDICATIO	ж
EATURE NUMBER	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD.	TYPE	DATE		CREDIT		TYPE	RESOLUTIO	
		#EISIIC#			======	*****	*******		******	******	**********	*********	12
RDN-2-3055-BC	CH BLTG	8-G-2	R00000187			VT-1	19960123	PASS	YES				
		B7.80											
RDN-2-3059-BC	BOLTS	8-G-2	R00000188			VT-1	19960123	PASS '	YES	-			
	00210	B7.80				•••••							
		•											
RDN-2-3403-BC	BOLTS	B-G-2 87.80	R00000187			VT-1	19960123	PASS	YES				
		67.00											
RDN-2-3407-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES				
		B7.80											
RDN-2-3411-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES				
	00210	B7.80				••••							

RDN-2-3415-BC	BOLTS	B-G-2 B7.80	R00000188			VI-1	19960123	PASS	YES				
		B7.00	-										
RDN-2-3419-BC	CH BLTG	B-G-2	R00000188			VT-1	19960123	PASS	YES				
		B7.80				•							
RDN-2-3423-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES				
		87.80											
		•					400/0407						
RDN-2-3431-BC	BOLTS	8-G-2 87.80	R00000188			VT-1	19960123	PASS	YES				
	• 7	51.00											
RDN-2-3435-BC *	BOLTS	8-G-2	R00000187			VT-1	19960123	PASS	YES			5	
		B7.80											
RDN-2-3439-BC	BOLTS	B-G-2	R00000188			VT-1	19960123	PASS	YES				
	57215	B7.80											

001.27

• ,

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: AMARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED OWNER: TENKESSEE VALLEY AUTHORITY NUCLAR POWER GROUP 1101 NAHKET STREET CHATTANOGGA, TENKESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

\$

••

Ŧ

NUTECH			BROWNS POST OL EXAM RE INT	TENNESSEE N FERRY NUCLI ISI JTAGE EXAMI OUIREMENT (ERVAL : 02	EAR POW DATA BANATION I RATION I R19-03	ER PLANT ASE RESULTS 2 CYC ERIOD :	- UNIT 2 REPORT LE : 08 2		*****		PRISIN ********* * PAGE * REVISIO * DATE (10 N 0000	******
۶ ۲	SYSTEM ISOMETRIC N	UMBER : 1		SHEET : 01		-							* * *
FEATURE NUMBER	DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	I CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXÁM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	RESOLUTION	1
CRDN-2-3443-BC	BOLTS	B-G-2 B7.80	R00000187		÷	VT-1	19960123	PASS	YES				
CRDN-2-3447-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES				
CRDN-2-3451-BC	BOLTS	B-G-2 87.80	R00000188			VT-1	19960123	PASS	TES				
CRDN-2-3803-BC	BOLTS	B-G-2 87.80	R00000187			VT-1	19960123	PASS	YES				
CRDN-2-3807-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES				
CRDN-2-3811-BC	BOLTS	B-G-2 B7.80	R00000188		·	VT-1	19960123	PASS	YES				
CRDN-2-3815-BC	BOLTS	8-G-2 87.80	R00000187	•		VT-1	19960123	PASS	YES				
CRDN-2-3819-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES				
CRDN-2-3827-8C	BOLTS	8-G-2 87.80	R00000187	-		VT-1	19960123	PASS	YES				
CRDN-2-3835-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES				s ?
CRDN-2-3839-BC	BOLTS	8-G-2 87.80	R00000188			VT-1	19960123	PASS	YES				

COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

•

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

\$

...

•

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402

-

· .

.

at

•

NUTECH	7			ENNESSEE							PRISI	1 1		
-	BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 ISI DATA BASE POST OUTAGE EXAMINATION RESULTS REPORT EXAM REQUIREMENT : R19-02 CYCLE : 08 INTERVAL : 02 PERIOD : 2											1		
												* PAGE 11 * REVISION 0000 * DATE 05/09/96		
-														
		MBER :	RPV REACTOR ISI-0292-C SI	EET : 01		-						1		
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEN NO.	EXAMINATION REPORT NO. F	CAL. REPORT NO.	CAL. STD.	EXAN TYPE	EXAN DATE	EXAM RESULT	CREDIT	REQST.	INDICATION TYPE	INDICATION RESOLUTION		
	=32323232323	*=#=====	2323828323 1		******	82223	##13535¥	222323	222333	112823		82322422622		
RDN-2-3843-BC	BOLTS	B-G-2 B7.80	R00000188			VT-1	19960123	PASS	YES		-			
RDN-2-3847-BC	BOLTS	B-G-2 B7.80	R00000188			VT-1	19960123	PASS	YES					
RDN-2-3851-8C	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES					
RDN-2-3859-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES					
RDN-2-4207-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS .	YES					
RDN-2-4211-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES					
RDN-2-4215-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			F		
RDN-2-4219-BC	BOLTS	B-G-2 87.80	R00000187		•	VT-1	19960123	PASS	YES			1		
RDN-2-4223-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES					
RDN-2-4227-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			(1996)		
RDN-2-4231-BC	BOLTS	B-G-2 B7.80	R00000188			vr-1	19960123	PASS	YES					

ā

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOOGA, TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

...

.

•

.

•

00129

4

•

NUTECH	TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 ISI DATA BASE POST OUTAGE EXAMINATION RESULTS REPORT EXAM REQUIREMENT : R19-02 CYCLE : 08										PRISIM * PAGE 12		
			INTER	VAL : 02	P:	ERIOD :	2	*******	******	******	* REVISIO * DATE (
		UMBER :	RPV REACTOR ISI-0292-C SHE	ET : 01	-		AR BOILER					* * *	
EATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO. RE	CAL.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION	
RDN-2-4235-BC	BOLTS	B-G-2 B7.80	R00000187			vr-1	19960123	PASS	YES				
RDN-2-4239-8C	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES				
RDN-2-4243-BC	BOLTS	B-G-2 B7.80	R00000188			VT-1	19960123	PASS	YES				
RDN-2-4251-BC	BOLTS	8-G-2 87.80	R00000188			VT-1	19960123	PASS	YES		- ,		
CRDN-2-4255-BC	BOLTS	8-G-2 87.80	R00000188		•	VT-1	19960123	PASS	YES				
CRDN-2-4259-BC	BOLTS	B-G-2 87.80	R00000187			VT-1	19960123	PASS	YES				
CRDN-2-4611-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES				
RDN-2-4619-BC	BOLTS	8-G-2 87.80	R00000187			VIe1	19960123	PASS	YES	-			
CRDN-2-4623-BC	BOLTS	B-G-2 B7.80	R00000188	-		VT-1	19960123	PASS	YES				
CRDN-2-4627-BC	BOLTS	B-G-2 B7.80	R00000188			VT-1	19960123	PASS	YES			fi j >.	
CRDN-2-4631-BC	BOLTS	B-G-2 87.80	R00000188			VT-1	19960123	PASS	YES				

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT

 100 MARKET STREET
 PO. BOX 2000

 1101 MARKET STREET
 DECATUR, ALABAMA 35602

 UNIT:
 TWO

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 KATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

v

•*

.

.'

00130

NUTECH			BROWNS F POST OUT EXAM REG	ENNESSEE ERRY NUCLI ISI AGE EXAMI UIREMENT RVAL : 02	EAR POW DATA BANATION I RATION I R19-0	ER PLANT ASE RESULTS	REPORT			•	PRISIF ********* * PAGE * REVISIO	13 N 0000
	SYSTEM ISOMETRIC N	: JMBER : 1	RPV REACTOR ISI-0292-C SH	PRESSURE	VESSEL	(NUCLEA	R BOILER		******	******	* DATE (05/09/96
EATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO. F	EPORT NO.	CAL. STD.	TYPE	EXAM DATE	RESULT	CREDIT	REQST.	INDICATION TYPE	INDICATIO RESOLUTIO
RDN-2-4635-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-4639-BC	BOLTS	8-G-2 87,80	R00000187			VT-1	19960123		YES			
RDN-2-4643-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-4647-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-4651-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-4655-BC	BOLTS	B-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-5011-BC	BOLTS	8-G-2 87.80	R00000188			VT-1	19960123	PASS	YES			-
RDN-2-5015-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-5019-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			
RDN-2-5023-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			. ,
RDN-2-5027-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWARS FERRY NUCLEAR PLANT

 NUCLEAR FOWER GEOUP
 P.O. BOX 2000

 1101 MAR FOWER GEOUP
 DECATUR, ALABAMA 35602

 UNIT:
 TWO

 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD WUMBER FOR UNIT: NOT REQUIRED

\$

••

.

00131

÷

7 * - ,

NUTECH				TENNESSEE	VALLEY	AUTHORIT	Y				PRISI	1
Norechi 🔶				FERRY NUCL	EAR POW	ER PLANI		2	-			
				ISI ITAGE EXANII	DATA B		DEDODT				*******	*********
				OUIREMENT			LE : 08				* PAGE	14
•				ERVAL : 02		ERICO :					* REVISIO	
•											* DATE (05/09/96
*************************************	**********	********	**********		******	******		******				
-	SYSTEM =	: (RPV REACTO	R PRESSURE	VESSEL	(NUCLE/	R BOILER) - 068				
•	ISOMETRIC N	UMBER :	ISI-0292-C S	SHEET : 01								
+ 	**********	********	**********	********	*****	******	*******	******	*******	******	***********	********
			EXAMINATIO		CAL.	EXAH TYPE	EXAM DATE	EXAM	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
FEATURE NUMBER	DESCRIPT.	IIEM NU.	REPORT NO.	ETTTTTTTT	510.							
	•											
CRDN-2-5031-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES			
		B7.80										
CRDN-2-5035-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES			
		87.80										
CRDN-2-5039-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES			
CKON-2-3039-8C	DULIS	B7.80	R00000101			••••	17700120					
		· _ ·										-
CRDN-2-5043-BC	BOLTS	8-G-2 87.80	R00000187			VT-1	19960123	PASS	YES			
		57.00										
CRDN-2-5047-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES			
		B7.80		_								
CRDN-2-5051-8C	BOLTS	B-G-2	R00000187	-		VT-1	19960123	PASS	YES			
	00010	B7.80										
-						VT-1	19960123		YES		•	
CRDN-2-5415-BC	BOLTS	8-G-2 87.80	R00000187			VI-1	19900123	PASS	IES			
		01100										
CRDN-2-5419-BC	BOLTS	B-G-2	R00000187			VI-1	19960123	PASS	YES			
		B7.80										4 . Y
CRDN-2-5423-BC	BOLTS	B-G-2	R00000187			VT-1	19960123	PASS	YES			
		87.80										
CRDN-2-5427-8C	้ ยังเรี้ร	8-G-2	R00000187			VT-1	19960123	DACC	YES			۲
	BULIS	B7.80	K00000187			VI-1	17700125	FAJJ	163	*		
CRDN-2-5435-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES			

OWNER: TEHNESSEL VALLEY AUTHORITY PLANT: BKOWAYS FEARY NUCLEAR PLANT NUCLEAR POWER GOOUP 1100 MARKET STREET CHATTANOOSA TEAMESSEE 37402 UNIT: TV/O COMMACRISTICATE OF AUTHORIZATION: NOT REQUIRED COMMACRICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD HUNDER FOR UNIT: NOT REQUIRED

.

\$

.*

NUTECH				TENNESSEE							PRI	SIM		*
,			BROWNS	FERRY NUCL	EAR POWE		- UNIT 2	2						-
*			POST OU	TAGE EXAMI			REPORT				*****	****	******	**
				QUIREMENT ERVAL : 02		2 CYC ERICO :		******	******	******	* PAGE * REVI * DATE	SION		* * * *
	SYSTEM ISOMETRIC N		RPV REACTO			(NUCLEA	R BOILER) - 068						* * * *
**************	**********	*******	**********	********	******	******	*******	******	******	*****	*********	****	*******	**
FEATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.	REPORT NO.	CAL. STD.	EXAN TYPE	EXAM DATE		CREDIT	REQST.	INDICATIO TYPE	F	NDICATIO	M
CRDN-2-5439-BC	BOLTS *	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES					
CRDN-2-5443-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES					
CRDN-2-5447-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES					
CRDN-2-5819-BC	BOLTS	8-G-2 87.80	R00000188			VT-1	19960123	PASS	YES					
CRDN-2-5823-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES					
CRDN-2-5831-BC	BOLTS	B-G-2 B7.80	R00000187			VT-1	19960123	PASS	YES					
CRDN-2-5835-BC	BOLTS	B-G-2 87.80	R00000187			VT-1	19960123	PASS	YES				-	
CRDN-2-5839-BC	[*] BOLTS	B-G-2 B7.80	R00000187			VT-4	19960123	PASS	YES					_
CRDN-2-5843-BC	BOLTS	B-G-2 B7.80	R00000187			vr-1	19960123	PASS	YES					

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWAS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP 1101 VARKET STREE CHATTANOOGA TEAMESSEE 37402 UNIT: TWO CCMMERICAL SERVICE DATE: MARCH 1, 1975 CCMMERICAL SERVICE DATE: MARCH 1, 1975 NATHONAL BOARD NUMJER FOR UNIT: NOT REQUIRED

\$

.

..

• 00133

.

.

4

.

	-	UNIT: COMM WATIO	IT: TWO AMERICAL S HONAL BOA	CERTIFICATE COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REGUIRED	(MARCH 1, 1 IR UNIT: NOT	CERTIFICATE 975 F REQUIRED	OF AUTHOR	CERTIFICATE OF AUTHORIZATION: NOT REQUIRED 1975 17 REQUIRED	r required		~
	-	ų				-					
* * **********************************	*	INDICATION RESOLUTION		*******					tan Tan t		\$
PRISIN * PAGE * REVISIO * DATE 0	******	INDICATION TYPE		-							
••••••	******	RELIEF REQST.							-		
	******	M SEC XI ULT CREDIT									
UNIT 2 PORT E : 08	*******	EXAN E DATE F	7960328 F				1				
AUTHORIT ER PLANT ASE RESULTS 1 2 CYC ERIOD :		EXAM TYPE						•			
VALLEY A EAR POWE DATA BA NATION F : R20-02 PE		CAL. STD.			-	ž					
TENNESSEE FERRY NUCLI ISI ITAGE EXAMIN OUIREMENT FERVAL : 02		I CAL. REPORT NO.	-								
BROWNS POST C EXAM R	SI-0222-C	EXAMINATIO REPORT NO.	R00000227	-							
******	UMBER :	CATGORY/ ITEM NO.	B-M-2 B12.50	-						-	
	SYSTEM ISOMETRIC I	COMPONENT DESCRIPT.	VAL INT						r		
NUTECH		EATURE NUMBER	cv-01-014	*******							

.

..

2

NUTECH				TENNESSEE				_			PRISI	4
			BROWNS	FERRY NUCL	EAR POWE		- UNIT a	2				
			n 1209	ISI ITAGE EXAMI			REPORT				*******	*********
				QUIREMENT							* PAGE	2
			111	ERVAL : 02	Pl	ERIOD :	2				* REVISIO * DATE	
	SYSTEM ISOMETRIC NU		ISS MAINS		M - 001							
***************	**********	********	**********	*********	******	******		*******			**************	**********
	COMPONENT	CATGORY/	EXAMINATIO	I CAL.	CAL.	EXAM	EXAN	EXAM	SEC XI	RELIEF	INDICATION	INDICATIO
EATURE NUMBER	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD.	TYPE	DATE	RESULT	CREDIT	REQST.	TYPE	RESOLUTIO
*********************					******			******				********
FCV-01-037	VAL INT"	B-N-2	R00000254			VT-3	19960402	ENGR	YES		WEAR	ANAL OK A

_

 WINER:
 TERMESSEE VALLEY AUTHORITY
 PLANT:
 BROWS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 DC.BOX 2000
 DC.BOX 2000

 100 LARKET STREET
 DECATUR. ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

.

\$

ŵ

•

NUTECH		******	BROWNS POST OU EXAM RE INT	TENNESSEE FERRY NUCL ISI TAGE EXAMI QUIREMENT ERVAL : 02	EAR POW DATA B NATION : R20-0	ER PLAN ASE RESULTS 2 CY ERIOD :	T - UNIT REPORT CLE : 08 2			-	PRISI * PAGE * REVISIC * DATE (* * 3 * 0000 %	
	SYSTEM ISOMETRIC N	UMBER :	MSS MAIN S ISI-0312-B S	HEET : 01		Ŧ						* * *	
FEATURE NUMBER	DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	CREDIT	REQST.	INDICATION TYPE	RESOLUTION	
°CV1-2-019	VAL INT	B-M-2 B12.50	R00000140			VT-3	19960221	PASS	YES				-
	********	*******	*****	*********	******	******	******	******	******	*******	*	******	
				-			-	¥				£	
												•.	
												•	
	τ. ŭ 4											a रेप्स् 	
> '													
00136			-									·	
-											•		
								-					

UNIT: TV/O CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

.

OWNERS TEXNESS VALLEY AUTHORITY NOULEAR FOMER GROUP CHATTANOOGA TENNESSEE 37402

> PLANT: BROWNS SERRY NUCLEAR PLANT BOX 2000 DECATUR, ALABARA 35602

> > \$

.

•



ų

10 .

4. '

• • .

.

							*******		******		******	*********	******
	* NUTECH			BROWNS		DATA B	ER PLAN	ר - 1 T בואט - 1	2		,	PRISI	*
i	* * *			EXAM REG	AGE EXAMI DUIREMENT RVAL : 02	: R20-0		CLE : 08				* PAGE * REVISIO * DATE	
q	*	SYSTEM ISOMETRIC M	:F JMBER :P		R PRESSURE	VESSEL	(KUCLE/	AR BOILER) - 068				* * *
	FEATURE NUMBER		· · ·	EXAMINATION REPORT NO. F		CAL. STD.	EXAM TYPE	EXAN DATE		SEC XI CREDIT			INDICATION RESOLUTION
•	CORE-SUP-STR	INT SUR		R00000318 R00000319 R00000336			VT-3 VT-3 VT-3	19960408 19960409 19960413	PASS	YES YES YES			-

đ

.

CUTTO TEXILES VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT SUCLEAR POWER GROUP CIATUAR STREET CON MERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

.

.

..

-

***** ...

1.5 1.5

ŝ,

. •

. ,

.

.

ι. .

BROWRS FERRY NUCLEAR POWER PLANT - UNIT 2 ISI DATA BASE POST OUTAGE EXAMINATION RESULTS REPORT EXAM REGUIREMENT: R25-02 CYCLE : 08 INTERVAL : 02 PERIOD : 2 SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073 ISOMETRIC NUMBER : ISI-0128-C SHEET : 01 COMPONENT CATGORY/ EXAMINATION CAL. CALS EXAM RESULT CREDIT RESSULT CREDIT RESSULT CREDIT RESSULT COMPONENT CATGORY/ EXAMINATION CAL. CALS EXAM RESULT CREDIT RESSULT ON REPORT NO. REPORT NO. REPORT NO. STO. TYPE DESCRIPT. ITEM NO. REPORT NO. REPORT NO. REPORT NO. STO. TYPE HPCI-2-005-001 PIPE C-F-1 RODOD0321 RT 19960409 PASS YES RODOD0321 COD000135 BF-98 UT-65 19960409 PASS YES RODOD0321 COD000135 BF-98 UT-65 19960409 PASS YES PORSITY EE RODO00321 CO0000135 BF-98 UT-60 19960409 PASS YES PORSITY EE ROD000321 CO0000136 BF-98 UT-60 19960409 PASS YES PORSITY EE ROD000321 C00000136 BF-98 UT-60 19960409 PASS YES PORSITY EE ROD000321 C00000136 BF-98 UT-60 19960409 PASS YES PORSITY EE ROD000321 C00000136 BF-98 UT-60 19960409 PASS YES PORSITY EE RO0000321 C00000136 BF-98 UT-60 19960409 PASS YES PORSITY EE RO0000321 C00000136 BF-98 UT-60 19960409 PASS YES PORSITY EE RO0000321 C00000136 BF-98 UT-60 19960409 PASS YES PORSITY EE PORSITY EE RO0000321 C00000136 BF-98 UT-60 19960409 PASS YES PORSITY EE PORSITY EE RO0000321 C00000136 BF-98 UT-60 19960409 PASS YES PORSITY EE PORSITY EE RO0000321 C00000136 BF-98 UT-60 19960409 PASS YES PORSITY EE RO0000321 C00000136 BF-98 UT-60 19960409 PASS YES PORSITY EE RO0000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT IND. EE PORSITY EE RO0000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT IND. EE PORSITY EE RO0000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT IND. EE PORSITY EE SPOT IND. EE CECHERIC KK GEOMETRIC KK G	NUTECH				TENNESSEE V	VALLEY A	AUTHORIT	Y				PRISI	4
POST OUTAGE EXAMINATION RESULTS REPORT ************************************				BROWNS	FERRY NUCLE	ear pow	ER PLANT		2				
EXAM REQUIREMENT : R25-02 CYCLE : 03 * PAGE * REVISION * DATE 05/ * REVISION * REVISIO													
CONTROL CONTROL <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>* DACE</td><td>1</td></t<>												* DACE	1
* DATE 05/ SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073 ISOMETRIC NUMBER : ISI-0128-C SHEET : 01 COMPONENT CATGORY/ EXAMINATION CAL. CAL. EXAM EXAM SEC XI RELIEF INDICATION I DESCRIPT. ITEM NO. REPORT NO. REPORT NO. STO. TYPE DATE RESULT CREDIT REDST. TYPE F PCI-2-005-001 PIPE C-F-1 R00000321 RT 19960409 PASS YES R00000321 C00000140 UT-CRP 19960409 PASS YES R00000321 C00000135 BF-98 UT-0 19960409 PASS YES R00000321 C00000137 BF-98 UT-45 19960409 PASS YES R00000321 C00000136 BF-98 UT-45 19960409 PASS YES POROSITY EL POROSITY EL PORO													N 0000
SYSTEM : HPC1S HIGH PRESSURE COOLANT INJECTION SYSTEM - 073 ISOMETRIC HUMBER : HPC1S HIGH PRESSURE COOLANT INJECTION SYSTEM - 073 EATURE HUMBER COMPONENT DESCRIPT. CATOCRY/ EXAMINATION REPORT NO. REPORT NO. STD. TYPE DATE EXAM EXAM SEC XI RELIEF INDICATION TYPE INDICATION PCI-2-005-001 THE Component Component INDICATION TYPE				141	ERVAL : UZ	r i		£					
ISOMETRIC NUMBER : ISI-0128-C SHEET : 01 COMPONENT DESCRIPT. CATGORY/ ITEM NO. REPORT NO. REPORT NO. STD. CAL. TYPE EXAM DATE EXAM RESULT CREDIT REGST. INDICATION TYPE I PCI-2-005-001 PIPE -VALVE C-F-1 R00000321 R00000321 R00000321 RT 19960409 PASS TES R00000321 YES COMPONING COUNDING YES R00000321 COUNDING COUNDING YES R00000321 COUNDING COUNDING YES R00000321 COUNDING COUNDING YES R00000321 COUNDING YES R00000321	***********	********	****	********	********	******	******	*******	******	******	******	*******	*******
ISOMETRIC NUMBER : ISI-0128-C SHEET : 01 COMPONENT DESCRIPT. CATGORY/ ITEM NO. REPORT NO. REPORT NO. STD. CAL. TYPE EXAM DATE EXAM RESULT CREDIT REGST. INDICATION TYPE I PCI-2-005-001 PIPE -VALVE C-F-1 R00000321 R00000321 R00000321 MT 19960409 PASS PS60408 PASS VES R00000321 YES COMPONING COUNCING R00000321 COMPONING COUNCING R00000321 COMPONING R00000321 COMPONING R00000225		evet fu					LECTION	-	. 073				
COMPONENT EATURE NUMBER CATCORY/ ESCIPT. EXAMINATION THEN NO. REPORT NO. REPORT NO. CAL. EXAMINATION CAL. CAL. EXAMINATION ESCIPT. EXAMINATION ESCIPT. EXAMINATION ESCIPT. EXAMINATION								JIJILA	015				
EATURE NUMBER DESCRIPT. ITEM NO. REPORT NO. REPORT NO. STD. TYPE DATE RESULT CREDIT TYPE ATT PCI-2-005-001 PIPE C-F-1 R00000321 MT 19960409 PASS YES RO0000321 RT 19960409 PASS YES R00000321 C00000130 BF-98 UT-CPI 19960409 PASS YES POROSITY EVALVE SPOT IND. EVALVE CS.11 R00000321 C00000135 BF-98 UT-65 19960409 PASS YES POROSITY EVALVE SPOT IND.													
EATURE NUMBER DESCRIPT. ITEM NO. REPORT NO. REPORT NO. STD. TYPE DATE RESULT CREDIT TYPE F PCI-2-005-001 PIPE C-F-1 R00000321 RT 19960409 PASS YES R00000321 C00000130 BF-98 UT-CP 19960409 PASS YES R00000321 C00000135 BF-98 UT-CP 19960409 PASS YES R00000321 C00000135 BF-98 UT-45 19960409 PASS YES POR0SITY EV CO0000137 BF-98 UT-45 19960409 PASS YES POR0SITY EV R00000321 C00000136 BF-98 UT-45 19960409 PASS YES POR0SITY EV R00000321 C00000136 BF-98 UT-45 19960409 PASS YES SPOT IND. EV POROSITY EV R00000321 C00000136 BF-98 UT-60 19960409 PASS YES <		********	********	**********									
PCI-2-005-001 PIPE -VALVE C-F-1 C5.11 R00000312 R00000321 MT 19960409 PASS UT-CRP 19960409 PASS VES R00000321 YES CO0000130 GEOMETRIC NO NC R00000321 C00000130 BF-98 UT-CRP 19960409 PASS VES YES VES GEOMETRIC NC R00000321 C00000135 BF-98 UT-45 19960409 PASS VES YES GEOMETRIC NC R00000321 C00000137 BF-98 UT-45 19960409 PASS YES SPOT IND. EVALVE SPOT													INDICATIO
PCI-2-005-001 PIPE -VALVE C-F-1 C5.11 R00000321 R00000321 MT R00000321 C0000140 19960409 UT-CRP PASS 19960409 YES YES PASS YES R00000321 C0000139 R00000321 BF-98 C0000135 UT-0 19960409 PASS YES YES R00000321 C00000130 BF-98 UT-0 UT-0 19960409 PASS YES YES R00000321 C00000135 BF-98 UT-45 UT-45 19960409 PASS YES YES R00000321 C00000137 BF-98 UT-45 19960409 PASS YES YES POROSITY EV SPOT IND. EV POROSITY EV SPOT IND.<	ATURE NUMBER	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NU.	510.							RESOLUTIO
-VALVE C5.11 R00000321 RT 19960408 PASS YES R00000321 C00000140 UT-CP 19960409 PASS YES R00000321 C00000139 BF-98 UT-0 19960409 PASS YES R00000321 C00000135 BF-98 UT-45 19960409 PASS YES R00000321 C00000137 BF-98 UT-45 19960409 PASS YES R00000321 C00000136 BF-98 UT-45 19960409 PASS YES POROSITY EV SPOT IND. EV POROSITY EV SPOT IND. EV SPOT IND. EV POROSITY EV SPOT IND. EV SPOT IND. EV POROSITY EV SPOT IND. E													
R000000321 C00000140 UT-CRP 19960409 PASS YES R00000321 C00000139 BF-98 UT-0 19960409 PASS YES R00000321 C00000135 BF-98 UT-45 19960409 PASS YES POROSITY EV SPOT IND. EV SPOT IND. EV R00000321 C00000137 BF-98 UT-45 19960409 PASS YES SPOT IND. EV POROSITY EV SPOT IND. EV POROSITY EV R00000321 C00000136 BF-98 UT-45 19960409 PASS YES SPOT IND. EV POROSITY EV SPOT IND. EV SPOT IND. EV SPOT IND. EV R00000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT IND. EV POROSITY EV SPOT IND. EV SPOT IND. EV	°CI-2-005-001												
R00000321 C00000139 BF-98 UT-0 19960409 PASS YES R00000321 C00000135 BF-98 UT-45 19960409 PASS YES GEOMETRIC NO POR0SITY EV SPOT IND. EV POR0SITY EV R00000321 C00000137 BF-98 UT-45 19960409 PASS YES GEOMETRIC NO R00000321 C00000137 BF-98 UT-45 19960409 PASS YES POR0SITY EV POR0SITY EV SPOT IND. EV POR0SITY EV R00000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT IND. EV POR0SITY EV SPOT IND. EV SPOT IND. EV POR0SITY EV SPOT IND. EV SPOT IND. EV POR0SITY EV SPOT IND. EV SPOT IND.		-VALVE	C5.11										
R00000321 C00000135 BF-98 UT-45 19960409 PASS YES GEOMETRIC NC POROSITY EV SPOT IND. EV POROSITY EV R00000321 C00000137 BF-98 UT-45 19960409 PASS YES POROSITY EV R00000321 C00000137 BF-98 UT-45 19960409 PASS YES POROSITY EV POROSITY EV SPOT IND. EV POROSITY EV SPOT IND. EV SPOT IND. EV SPOT IND. EV POROSITY													
POROSITY EX POROSITY EX POROS		· ·											
POR051TY EXAMPLE R00000321 C00000137 BF-98 UT-45 19960409 PASS YES POR051TY EX R00000321 C00000136 BF-98 UT-60 19960409 PASS YES POR051TY EX POR051TY EX SPOT IND. EX POR051TY EX R00000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT IND. EX POR051TY EX SPOT IND. EX SPOT IND. EX POR051TY EX SPOT IND. IND				R00000321	C00000135	BF-98	UT-45	19960409	PASS	YES			NON-RELEV
POROSITY EX R00000321 C00000137 BF-98 UT-45 19960409 PASS YES POROSITY EX POROSITY EX POROSIT													EVALUATED
R00000321 C00000137 BF-98 UT-45 19960409 PASS YES POROSITY EV POR0SITY EV POROSITY EV POROSITY EV R00000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT NO. EV POROSITY EV POROSITY EV POROSITY EV													EVALUATED
R00000321 C00000137 BF-98 UT-45 19960409 PASS YES POROSITY EX POR051TY EX POR051TY EX POR051TY EX POR051TY EX R00000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT IND. EX POR051TY EX POR051TY EX POR051TY EX POR051TY EX SPOT IND. EX SPOT IND. EX POR051TY EX SPOT IND. EX SPOT IND. EX POR051TY EX SPOT IND. EX SPOT IND. EX POR051TY EX SPOT IND.<													EVALUATED NON-RELEV
R0000021 C000001 B + 00 C1 + 00 <thc1 +="" 00<="" th=""> <th< td=""><td></td><td></td><td></td><td>00000721</td><td>c00000137</td><td>05-09</td><td>117-/5</td><td>10060/00</td><td>DACC</td><td>VEC</td><td></td><td></td><td>EVALUATED</td></th<></thc1>				00000721	c00000137	05-09	117-/5	10060/00	DACC	VEC			EVALUATED
PCI-2-005-002 VALVE C-F-1 R00000189 MT 19960327 PASS YES SPOT IND. EX R00000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT IND. EX POROSITY EX GEOMETRIC NG -REDUCER C5.51 R00000225 C0000078 BF-77 UT-65 19960327 PASS YES GEOMETRIC NG GEOMETRIC NG				K00000321	00000137	br-30	01-43	17700407	FROD	163			EVALUATED
POROSITY EX R00000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT IND. EX POROSITY EX SPOT IND. EX SPOT I													EVALUATED
R00000321 C00000136 BF-98 UT-60 19960409 PASS YES SPOT IND. EX POROSITY EX SPOT IND. EX POROSITY EX R00000321 C00000138 BF-98 UT-60 19960409 PASS YES SPOT IND. EX R00000321 C00000138 BF-98 UT-60 19960409 PASS YES SPOT IND. EX PCI-2-005-002 VALVE C-F-1 R00000189 MT 19960327 PASS YES SPOT IND. EX -REDUCER C5.51 R00000225 C00000078 BF-77 UT-45 19960327 PASS YES GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG													EVALUATED
POROSITY EX SPOT IND. EX POROSITY EX GEOMETRIC NG PCI-2-005-002 VALVE C-F-1 R00000138 BF-98 UT-60 19960409 PASS YES -REDUCER C5.51 R00000225 C00000078 BF-77 UT-45 19960327 PASS YES GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG				R00000321	00000136	RF-98	UT-60	19960409	PASS	YES			EVALUATED
SPOT IND. EV POROSITY EV GEOMETRIC NG PCI-2-005-002 VALVE C-F-1 R00000138 BF-98 UT-60 19960409 PASS YES -REDUCER C5.51 R00000225 C00000078 BF-77 UT-45 19960327 PASS YES GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG							•••••						EVALUATED
POROSITY EX GEOMETRIC NG CI-2-005-002 VALVE C-F-1 R00000189 NT 19960327 PASS YES -REDUCER C5.51 R00000225 C00000078 BF-77 UF-45 19960327 PASS YES GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG													EVALUATED
GEOMETRIC NG R00000321 C00000138 BF-98 UT-60 19960409 PASS YES PCI-2-005-002 VALVE C-F-1 R00000189 NT 19960327 PASS YES -REDUCER C5.51 R00000225 C00000078 BF-77 UT-45 19960327 PASS YES GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG													EVALUATED
PCI-2-005-002 VALVE C-F-1 R00000189 NT 19960327 PASS YES -REDUCER C5.51 R00000225 C00000078 BF-77 UT-45 19960327 PASS YES GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG													NON-RELEV
-REDUCER C5.51 R00000225 C00000078 BF-77 UT-45 19960327 PASS YES GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG GEOMETRIC NG				R00000321	C00000138	BF-98	UT-60	19960409	PASS	YES		SPOT IND.	EVALUATED
-REDUCER C5.51 R00000225 C00000078 BF-77 UT-45 19960327 PASS YES GEOMETRIC NO GEOMETRIC NO GEOMETRIC NO GEOMETRIC NO GEOMETRIC NO GEOMETRIC NO	c1-2-005-002	VALVE	C-F-1	R00000189			HT	19960327	PASS	YES			
GEOMETRIC XX GEOMETRIC XX GEOMETRIC XX				R00000225	C0000078	BF-77	UT-45	19960327	PASS	YES		GEOMETRIC	NON-RELEV
GEOMETRIC NO GEOMETRIC NO												GEOMETRIC	NON-RELEV
GEOMETRIC NO													NON-RELEV
													NON-RELEV
R00000225 C0000079 BF-77 UT-60 19960327 PASS YES GEOMETRIC NO													NON-RELEV
				R00000225	C00000079	BF-77	UT-60	19960327	PASS	YES		GEONETRIC	NON-RELEV
		· · ·											NON-RELEV
										•			NON-RELEV
													NON-RELEV

 OWNER:
 TERMESSEE VALLEY AUTHORITY
 PLANT:
 BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 P.O. BOX 2000

 1101 MARKET STREET
 DECATUR, ALABAMA 33602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

.

.*

.

•

•

-

00138

,

æ

NUTECH	,	-	POST O	TENNESSEE V FERRY NUCLE ISI UTAGE EXAMIN EQUIREMENT : TERVAL : 02	AR POW DATA BATION I RATION I R25-02	ER PLANT ASE RESULTS	REPORT	2			PRISI * PAGE * REVISIO * DATE	* * 2 * 2 *
	SYSTEN ISOMETRIC N			PRESSURE COO SHEET : 01	DLANT I	NJECTIO	I SYSTEN	• 073	******	*****		* * *
FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATIO REPORT NO.	N CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION

÷

.

OWHER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP TIOLMARKET STREET CHATTANDOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

-4

3

*

.

00139

*

. 1

·

r

NUTECH				ENNESSEE ERRY NUCL		ER PLAN		2			PRISI	M	*
			EXAM REQ	AGE EXAMI UIREMENT RVAL : 02	NATION : R26-0 P	RESULTS 2 CY ERIOD :	CLE : 08					********** 0N 0000 05/09/96	*** * *
	SYSTEM ISOMETRIC N		RHRS RESIDUA ISI-0324-C SH	EET : 06	HOVAL S	YSTEM -	074	*****	******	******	******	********	*** * * * * *
EATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO. R	CAL.	STD.	EXAM TYPE	DATE	RESULT	CREDIT	REQST.	INDICATION TYPE	RESOLUTI	ON
-478452K0067-1A	IWA	C-C C3.20	R00000320			NT	19960407	PASS	YES				
******	-	*******	***********	*******	******	******	*******	******	******	******	*******	******	***
				-				-					
				-									
					•								
												-	
	-					•						~	
												1 <u>5</u>	- ⁵ 45
												9	¢ î
•													
_									-				

-

j.

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED PLANT: BROWNS FERRY HUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

\$

OVNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP THO MARRET STREEP CHATTANDOGA, TENNESSEE 37402

ž

.

•

• • •

•

. қ

*	NUTECH			BROWNS		EAR POW	R PLAN	r - UNIT 2	2		•	PRISI	4
2 2 2 2 4	*****	********	******	EXAM RE	DTAGE EXAMI COUIREMENT CERVAL : 02	: \$01-02		CLE : 08	******	******	******	* PAGE * REVISIO * DATE	
*		SYSTEM ISONETRIC N		CRDS CONTRO ISI-0040-C S		E SYSTEI	4 - 085	*******	******	******	******	*********	****
FEA	TURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE	EXAM RESULT		RELIEF REQST.	INDICATION TYPE	INDICATIO RESOLUTIO
RCR	D-2-A07	PIPE -TEE	C-F-2 C5.51		C00000041	SIZBLK SIZBLK	NT UT-45 UT-60		ENGR	NO NO NO		SURF, LINEAR LINEAR LINEAR	EVALUATED EVALUATED, EVALUATED,

.

OWNER: TENKESSEE VALLEY AUTHORITY HUCLEAR POWER GROUP 1101 MARKET STREET CHATTANDOGA, TENNESSEE 37402 Commerical Service Date: March 1, 1975 National Board Number for Unit: Not Reduired 0WT CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

.

۶٩

\$

UNIT:

 \sim

÷

• ۰,

4

4

÷.,

00141

. .

*

9

٠

ŧ

м. ¹

N 1 1

.

r -

*

٠. .

\$. . . .

•

2 t u.

4

\$

* NUTECH			TE	NNESSEE	VALLEY J	UTHORIT	Y				PRISI	н	•
			BROWNS FE					2	_				•
,					DATA B						*******		
			POST OUTA EXAM REQU								* PAGE	1	
•				VAL : 02		ERIOD:						оооо и	
			1000				-				* DATE		
***************	************	*********	**************		न न म स स में हैं।	******							
	CONCTOTO 18	MOTO - 1	101-0370-0 CUE										
********	150H21K1C NU	MBCK I ********	ISI-0279-C SHE	:EI I UI	******	******	******	******	******	******	********	*******	***
******	CONPONENT	CATGORY/	EXAMINATION	CAL.			EXAM		SEC XI		INDICATION		
EATURE NUMBER	CONPONENT	CATGORY/	*******	CAL.		EXAM TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATI RESOLUTI	
******	COMPONENT DESCRIPT.	CATGORY/ ITEN NO.	EXAMINATION	CAL.	STD.	TYPE		RESULT					

OWNER: TEXNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY INUCLEAR PLANT NUCLEAR POWER GROUP TOT MARKET STREET CHATTANDOGA TEXNESSEE 37402 UNIT: TV/O COMMERICAL SERVICE DATE: MARCH 1, 1975 COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

•

- 4

•

00142

NUTECH	TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 ISI DATA BASE										PRISIM	
			EXAM RE	OUIREMENT	NATION 1 755-0	RESULTS	LE : 08				* PAGE * REVISIO * DATE	
	SYSTEM ISOMETRIC N		RHRS RESIDU		HOVAL S'	(STEM -	074	******	******	******	**********	*******
ATURE NUMBER			EXAMINATION REPORT NO.		CAL. SID.	EXAM TYPE			SEC XI CREDIT		INDICATION TYPE	INDICA RESOLU
•62	H SNUB	F-A F1.10C	R0000003			vī-3	19951122	PASS	YES			

.

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKT STREET CHATTANOOGA TENNESSEE 37402 PLANT: BROWMS FERRY NUCLEAR PLANT PO. 80X 2000 DECATUR, ALABAMA 35602 .

\$

...

.

••

,

.

- 4] <u>5</u> Aj - 12 -

•

٠

.

.

۱. ۴

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

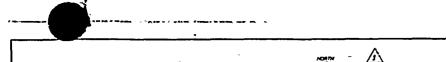
UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

111

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

ISOMETRICS FOR COMPONENT LOCATIONS



 \triangle

ş

, in

c3-10



2700

-

 \bigcirc^{k}

rige.

Ē



SHELL COURSE IN

٠,



NOTE: FOUR (4) STEAN DRYER HOLDOOWN BRACKETS (NOT SHOWN) ARE LOCATED IN THE VESSEL CLOSURE HEAD 10° UP FROM THE FLANGE. THESE ARE AT AZIMUTH LOCATIONS 41°, 139°, 221°, AND 310°,

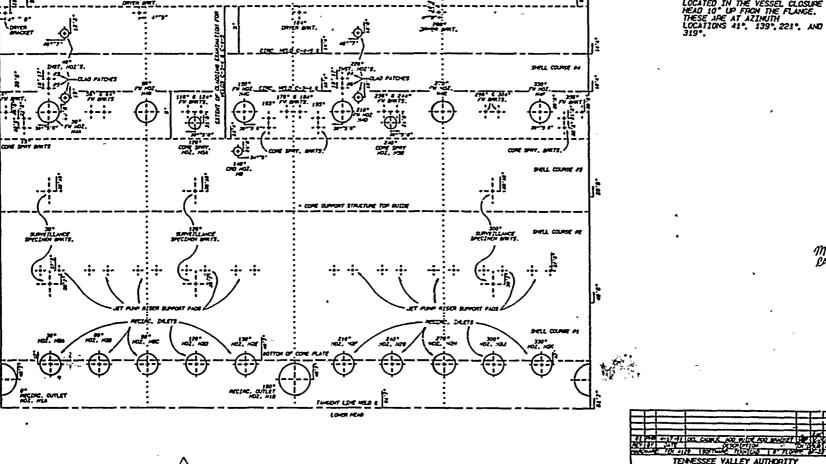
TENNESSEE VALLEY AUTHORITY BROHNS FERRY NUCLEAR PLANT UNIT 2 REACTOR VESSEL WELD AND NOZZLE LOCATIONS INTERIOR WALL)

ALT STATE EDC GLB CHARTEN ALLS

04 2045

M7 Col

Ĩ



00145

1

£7.5

AND ATT.

Él. .Ė

..... - -

. . .

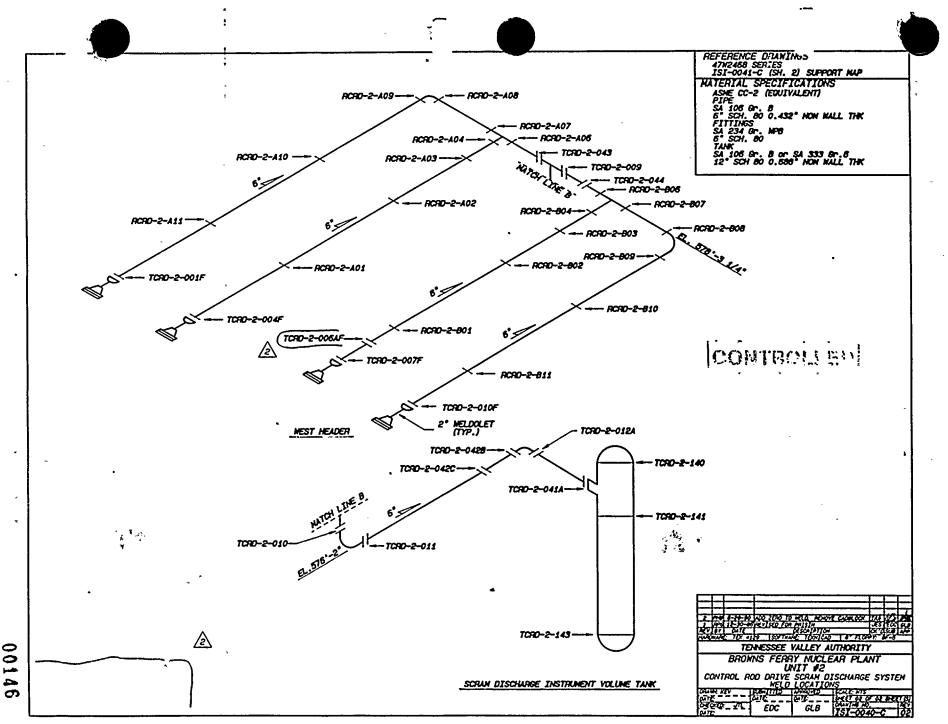
30* * 5'8

.;F.#

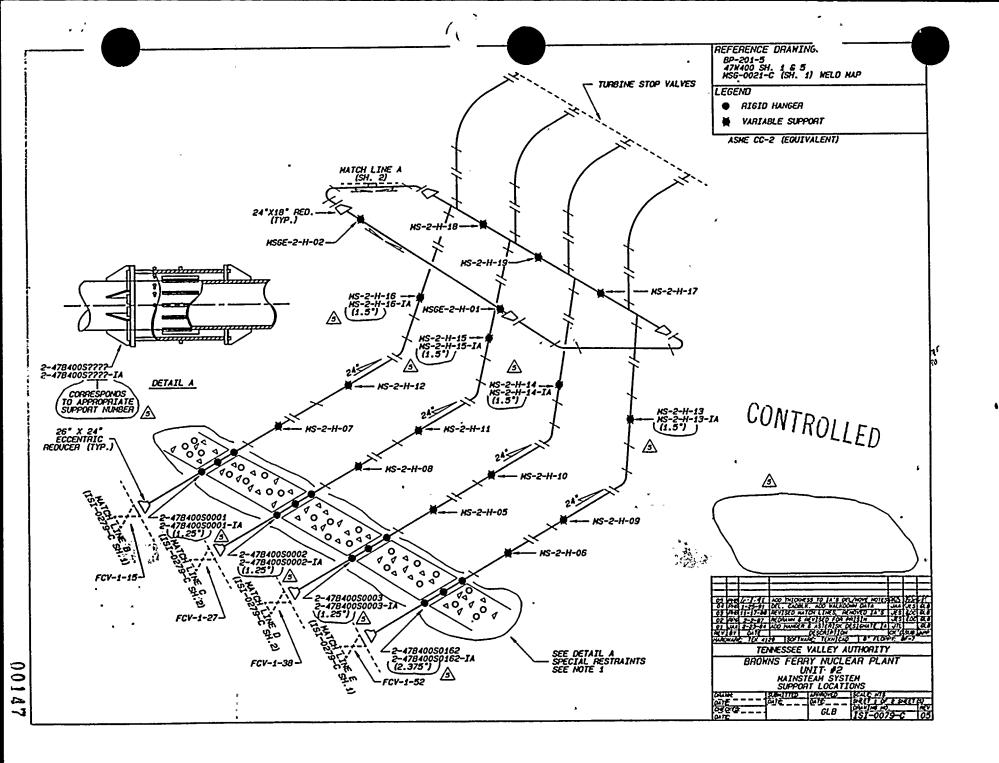
I'm at CAO PATORS

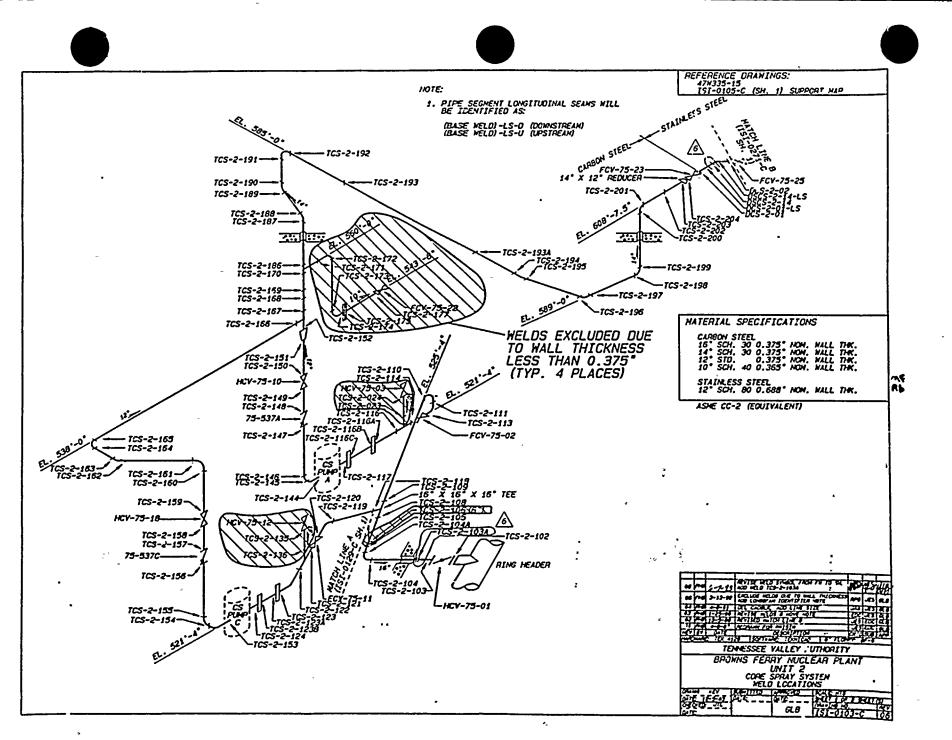
-

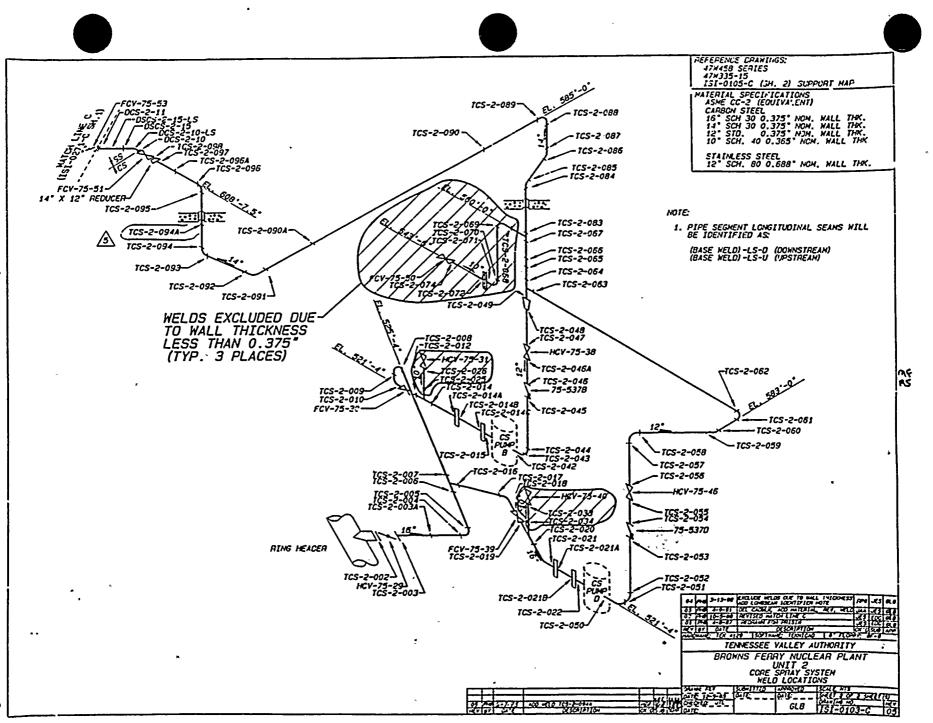
40.91



4 σ





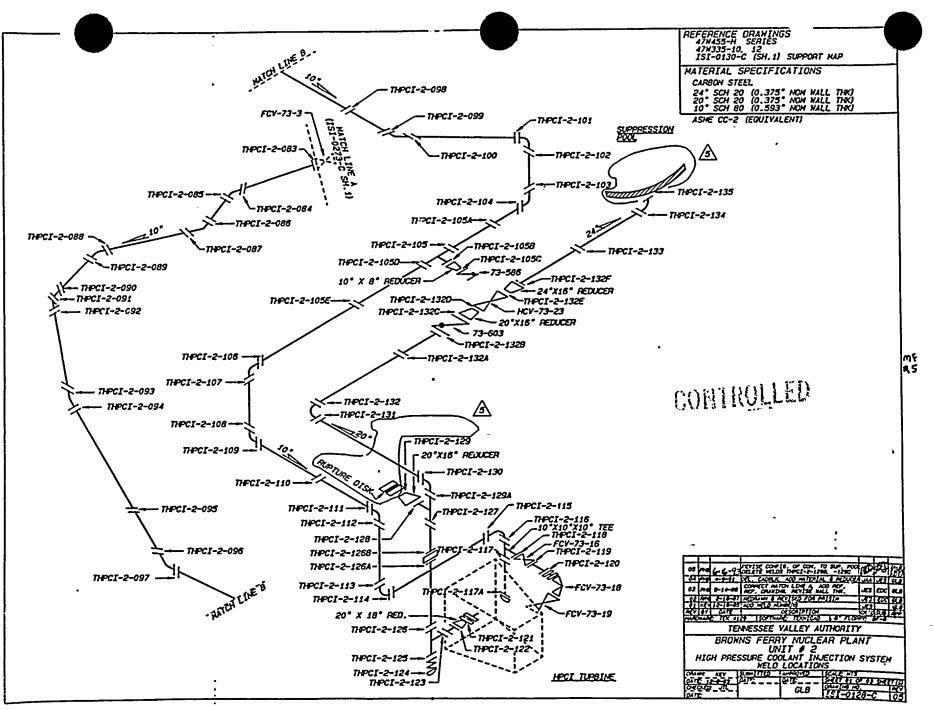


.

`

۰. ۲۰

.

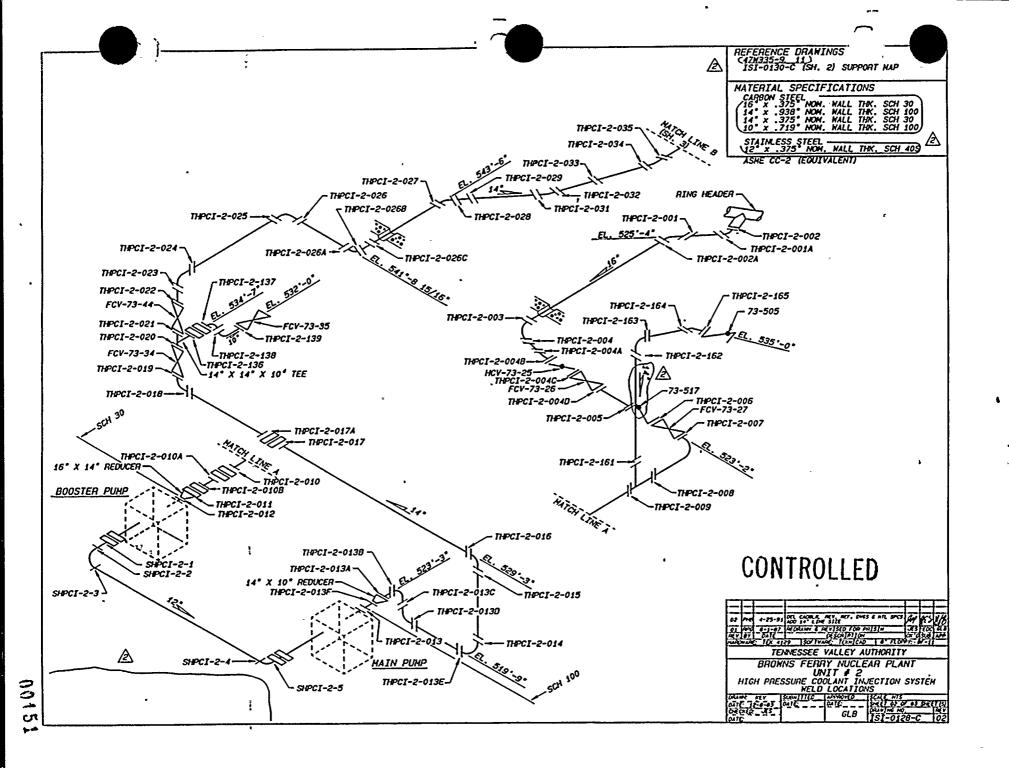


20 - \mathfrak{I}

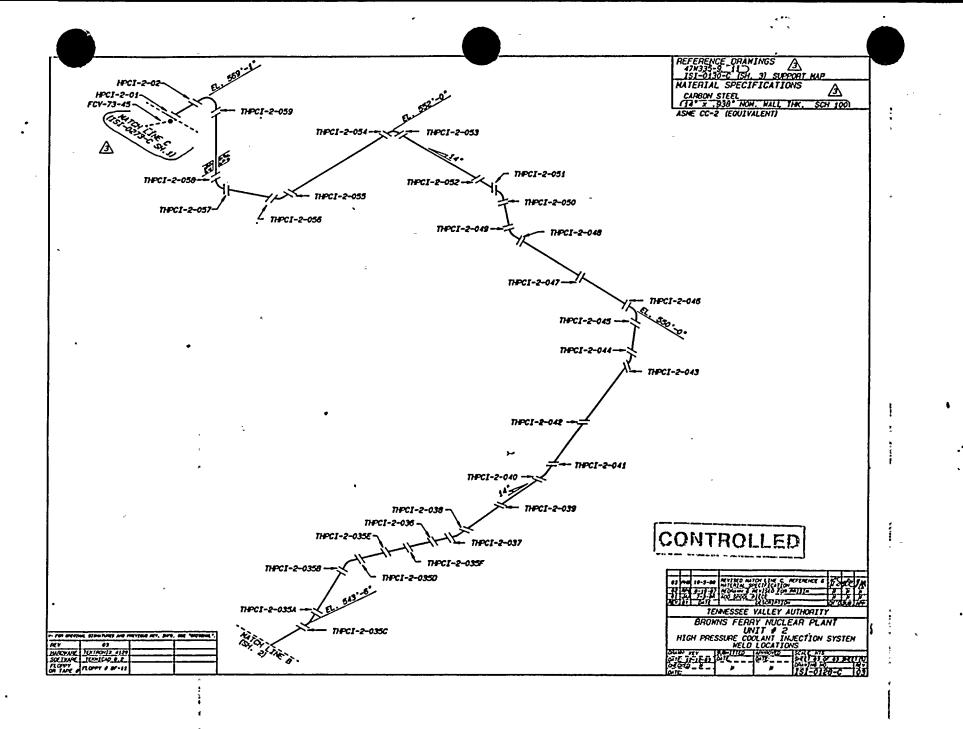
. . . . ж •

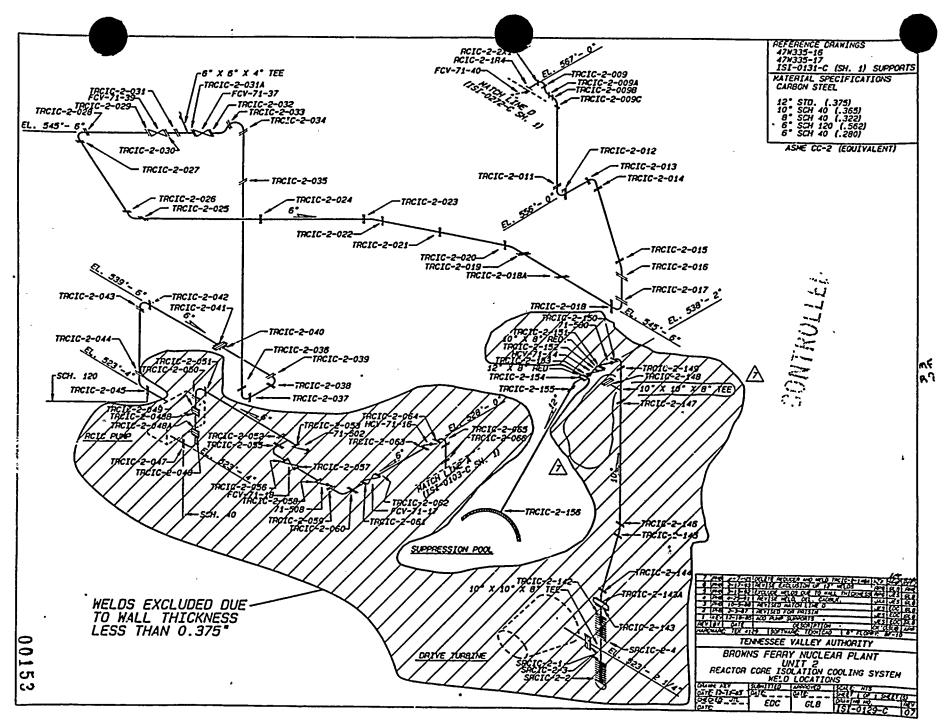
·

,



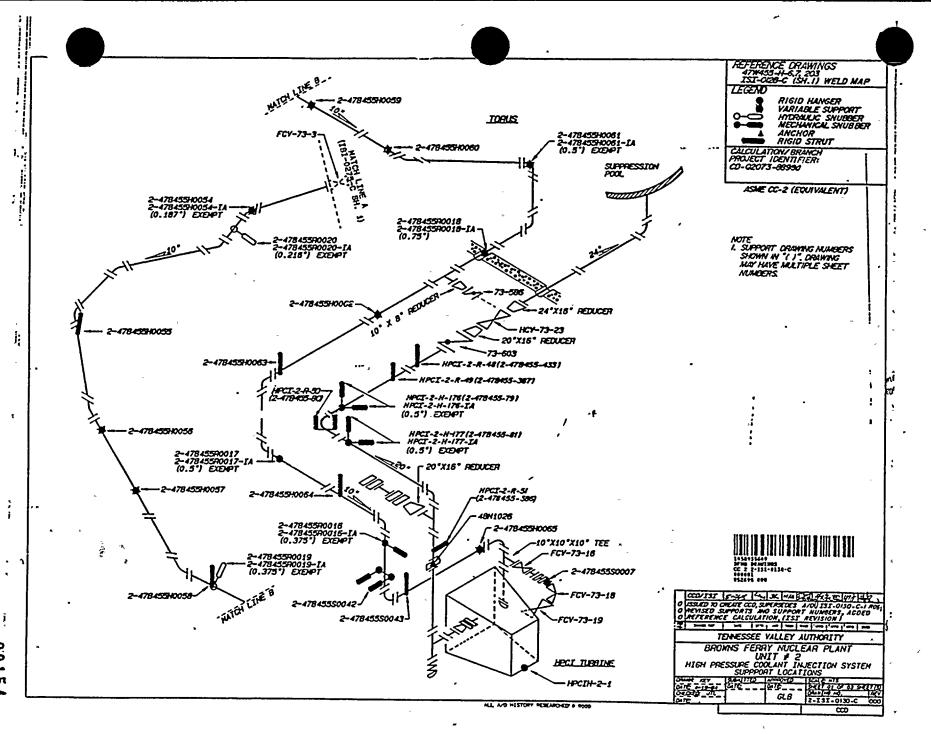
. . • J , I. ŧ х ۰ • * а , , 1 •



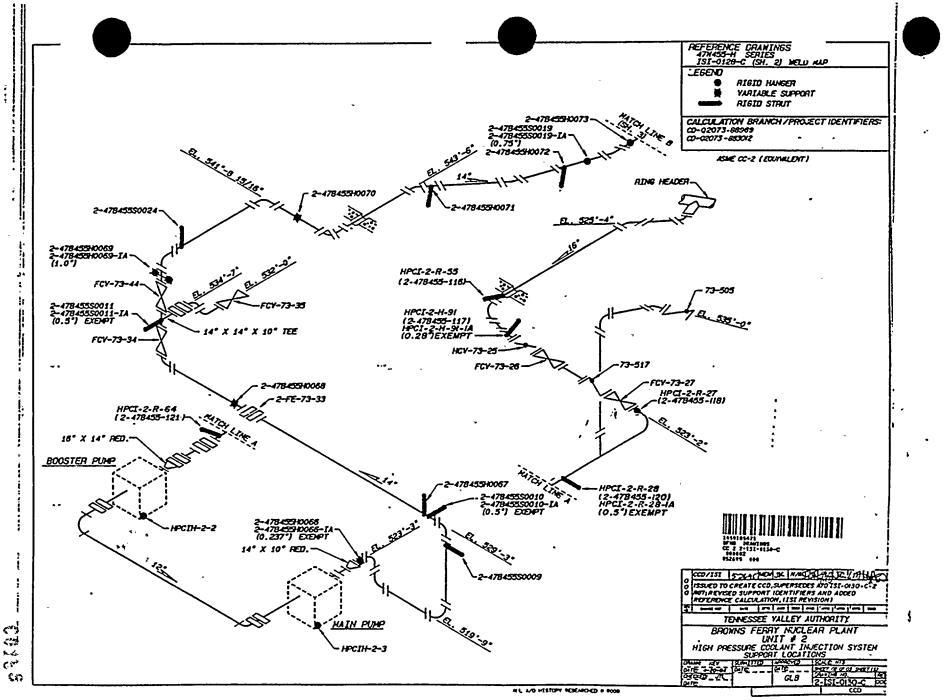


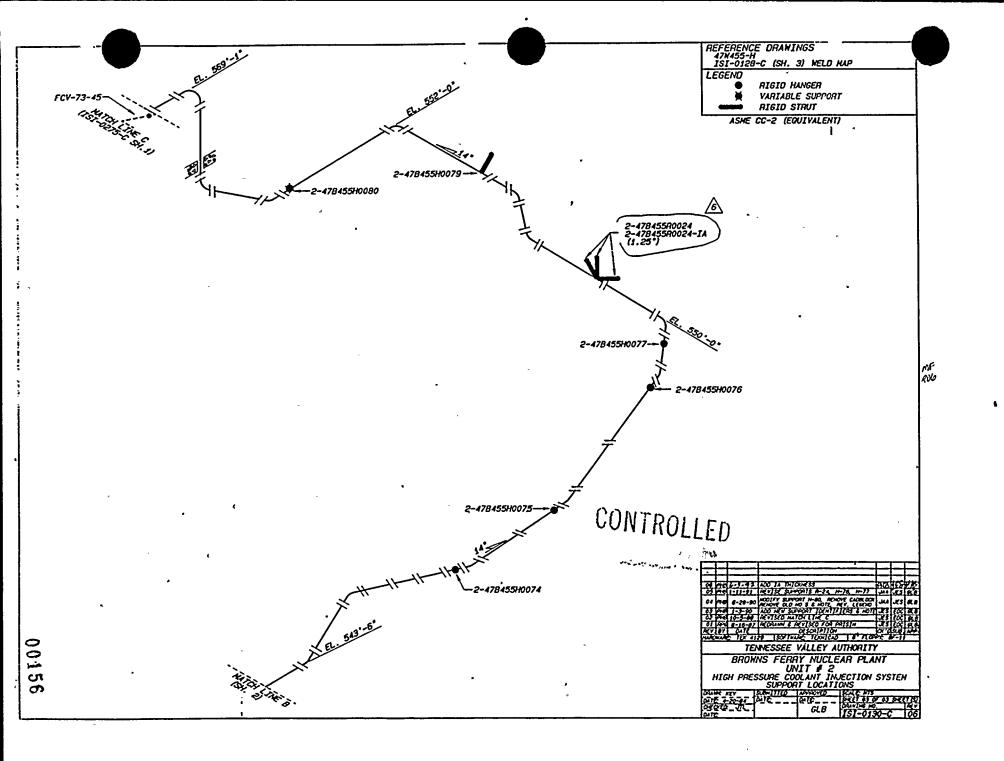
.

-



0.0 **7----**S



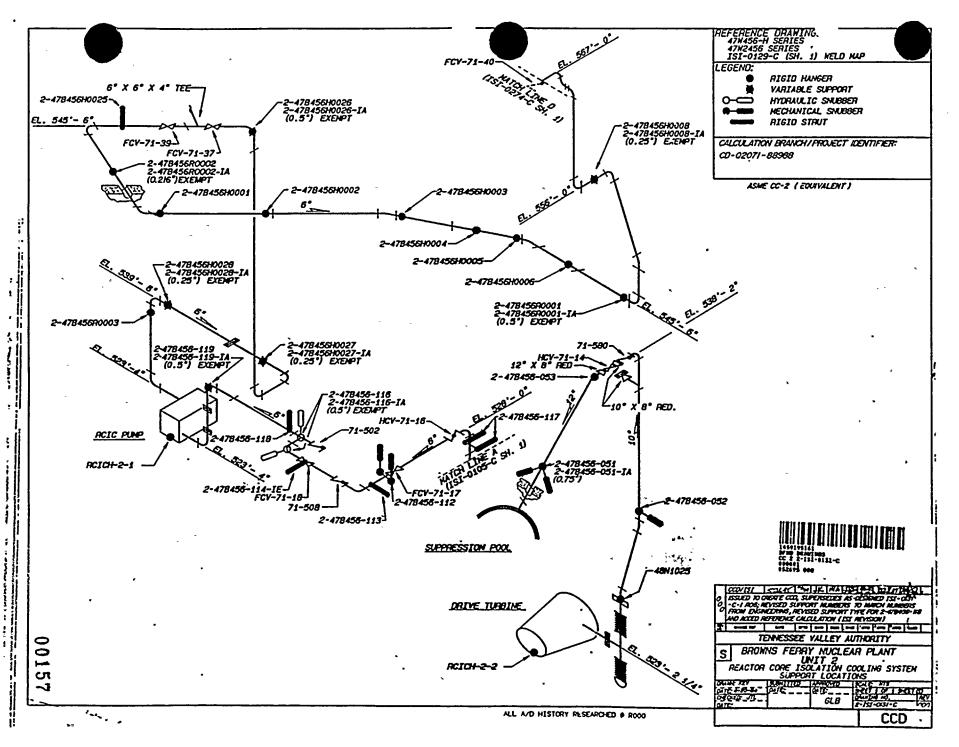


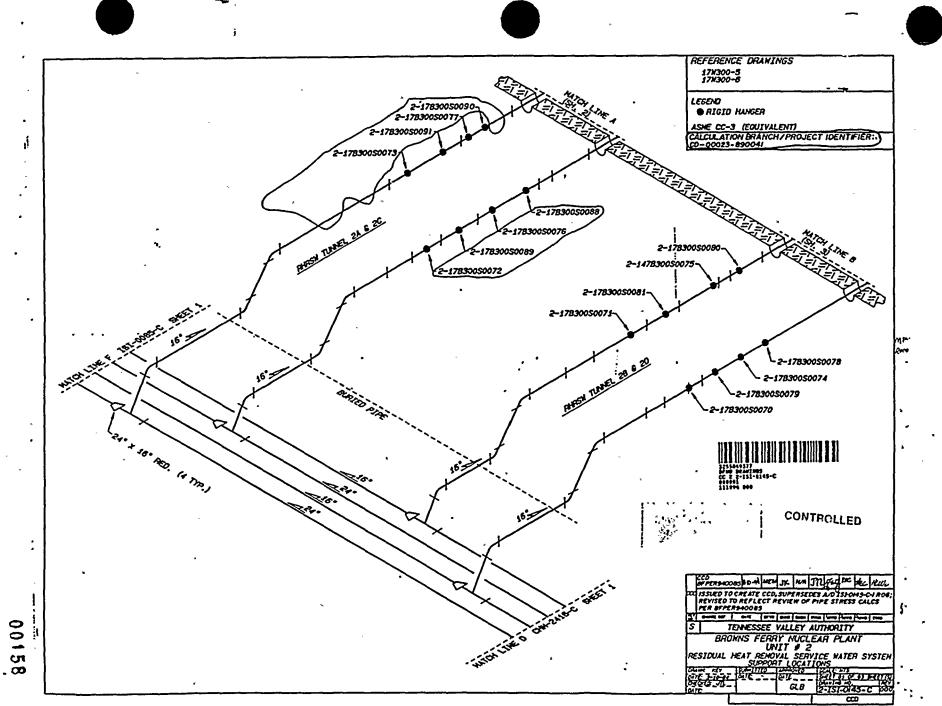
• **x**

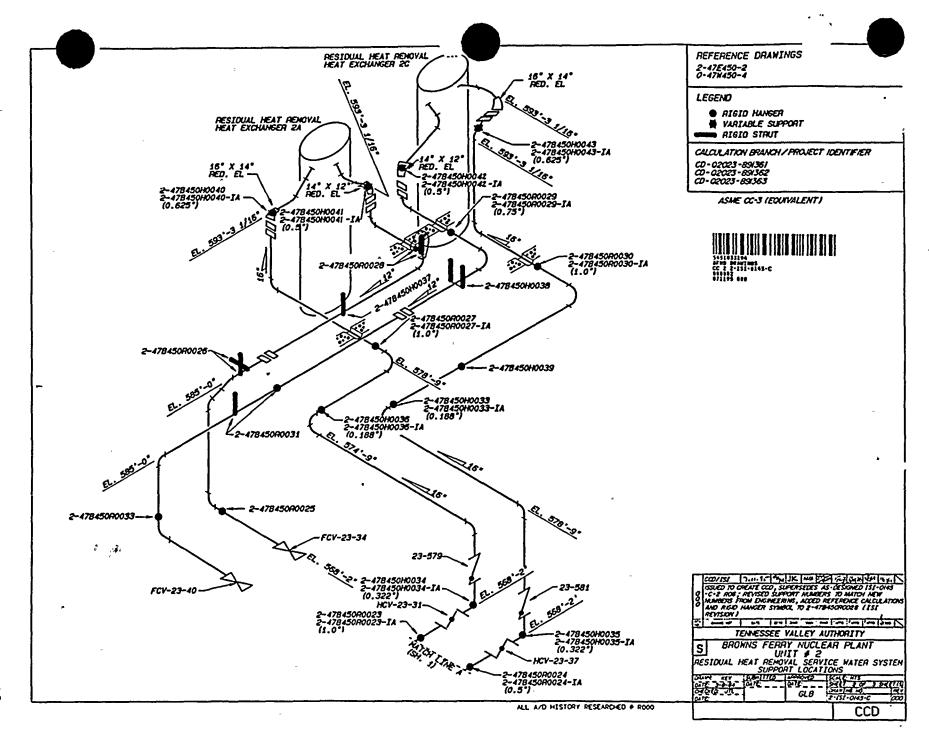
, , , , , , , , , , , , , , , ,

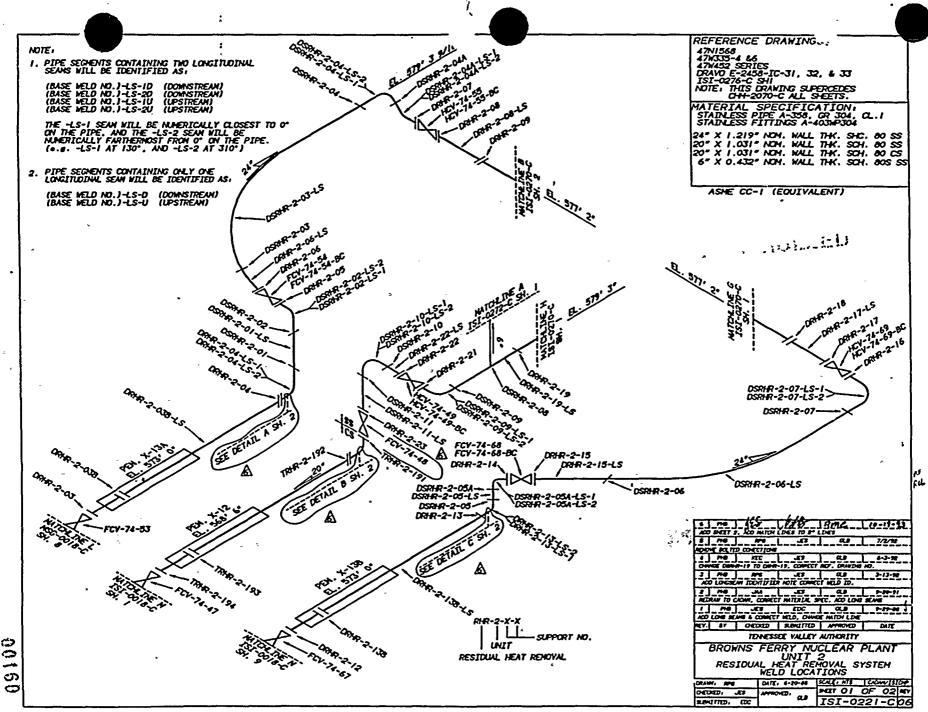
· ·



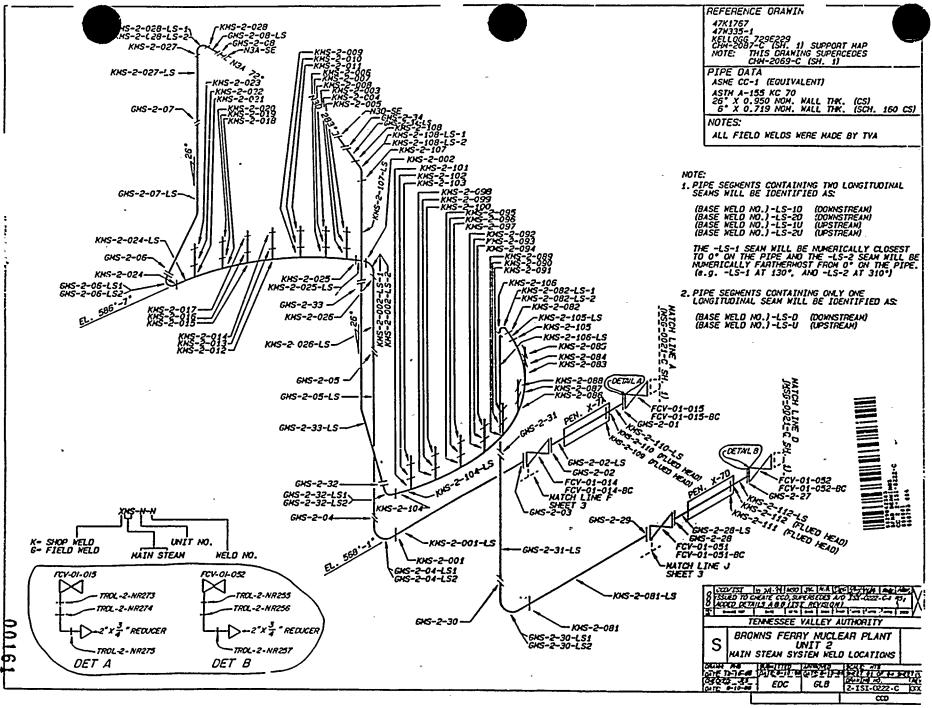




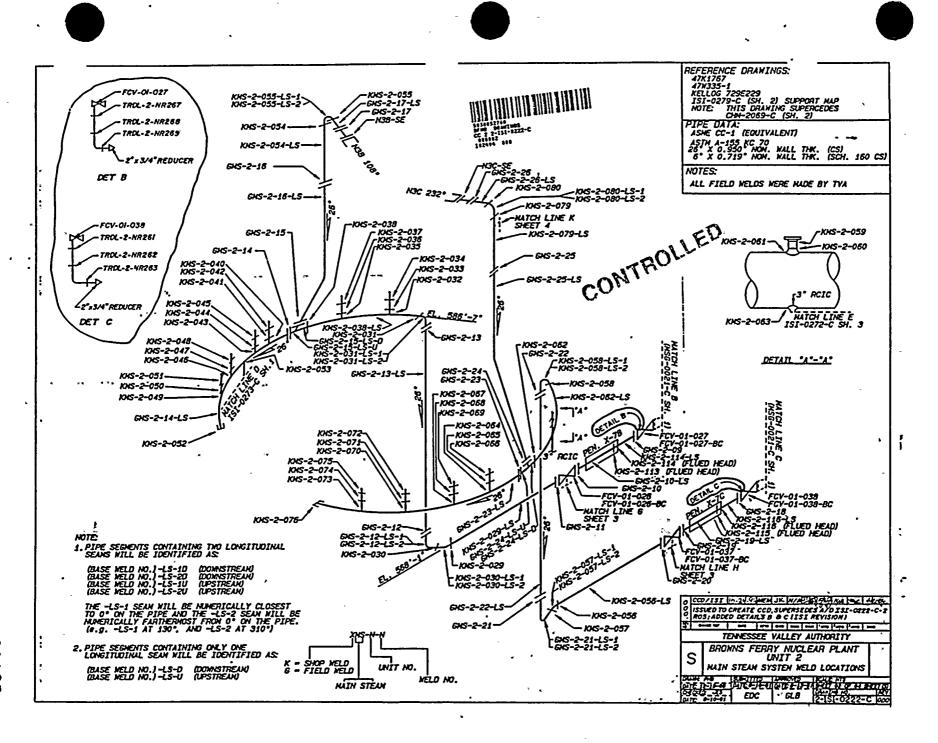




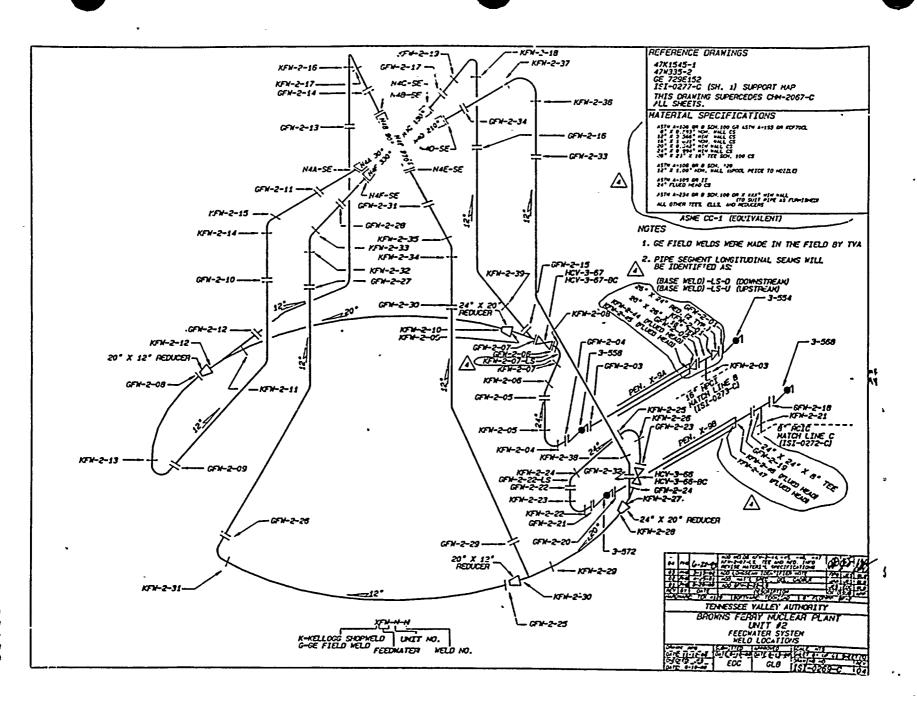
න



· . .



0015 ഷ



5 3 6 N O

.

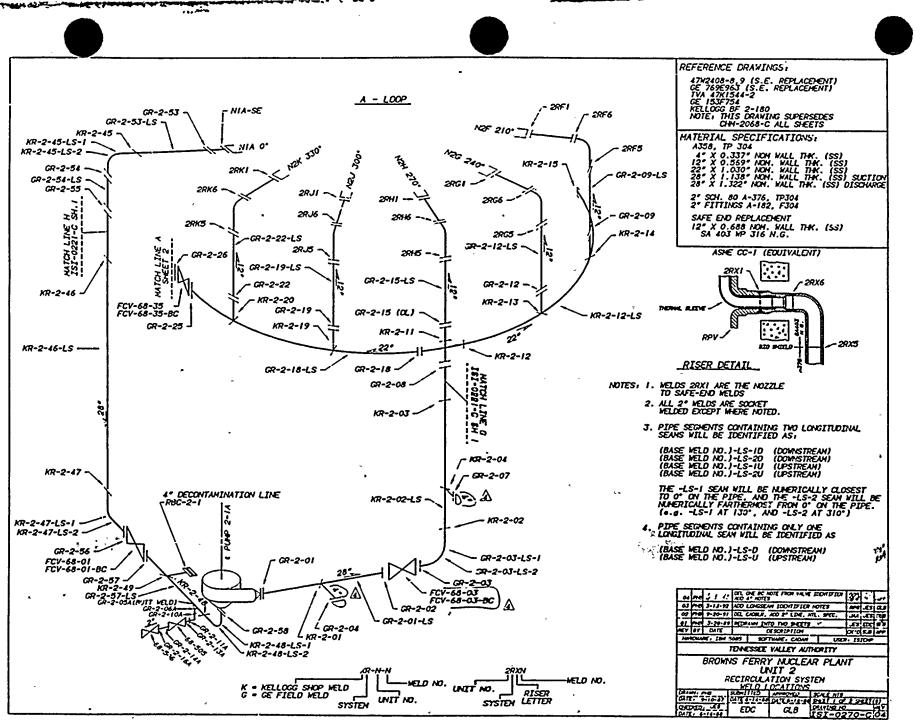
3

ب بر

÷

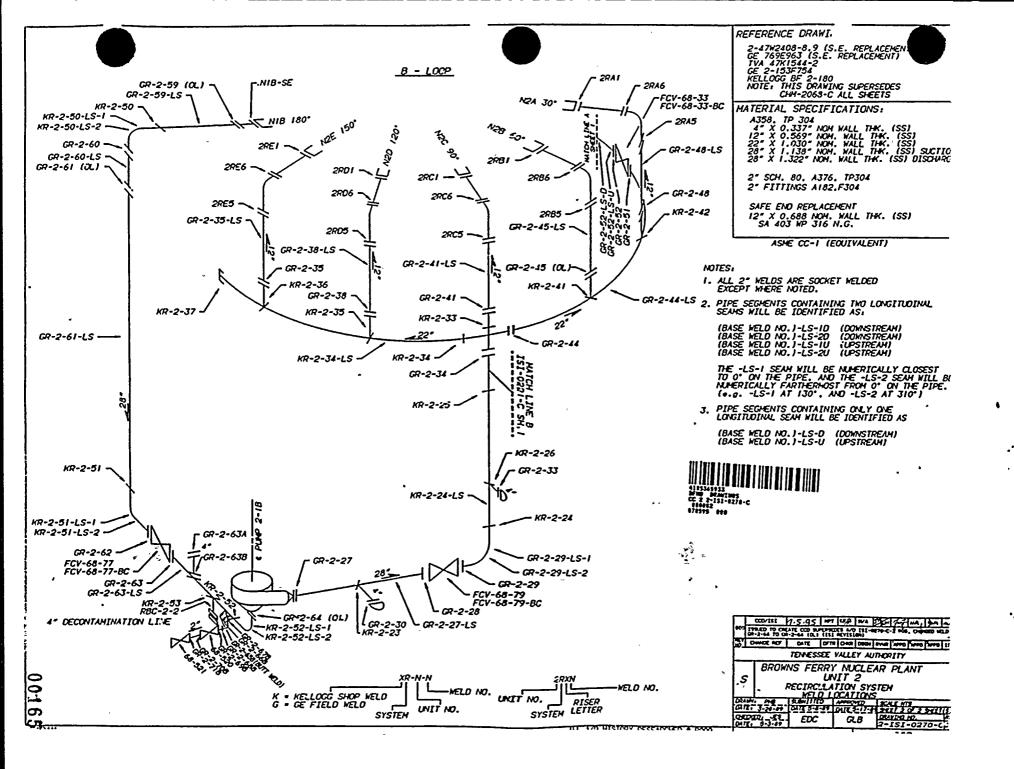
 \cdot

.



ō <u>j</u>mas က

0

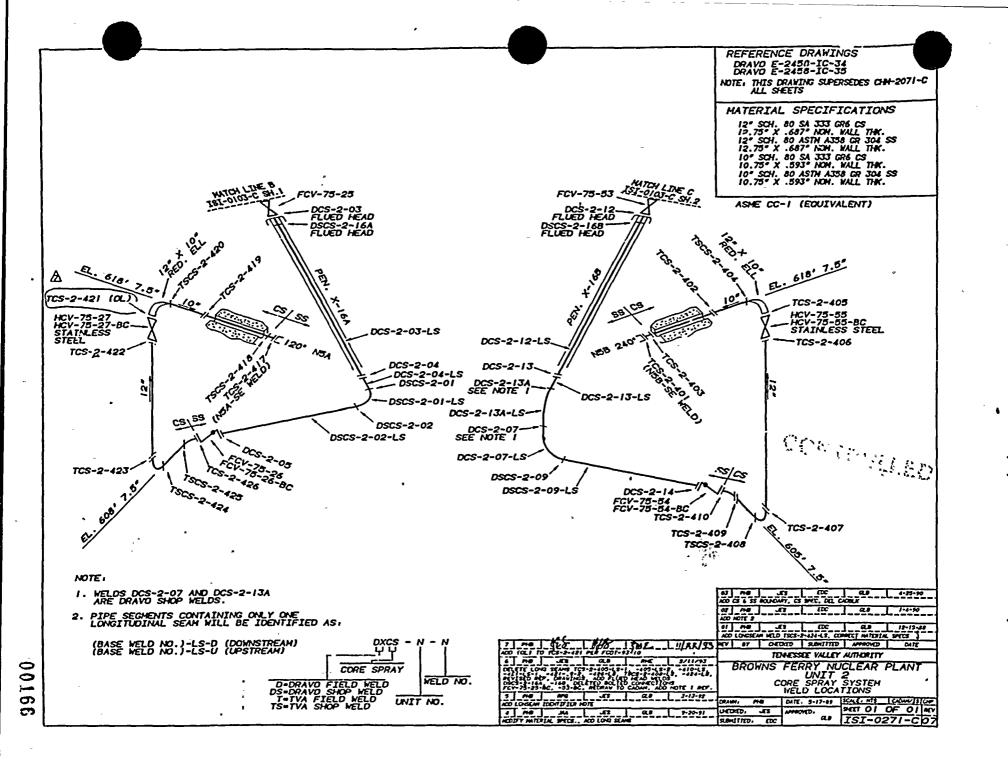


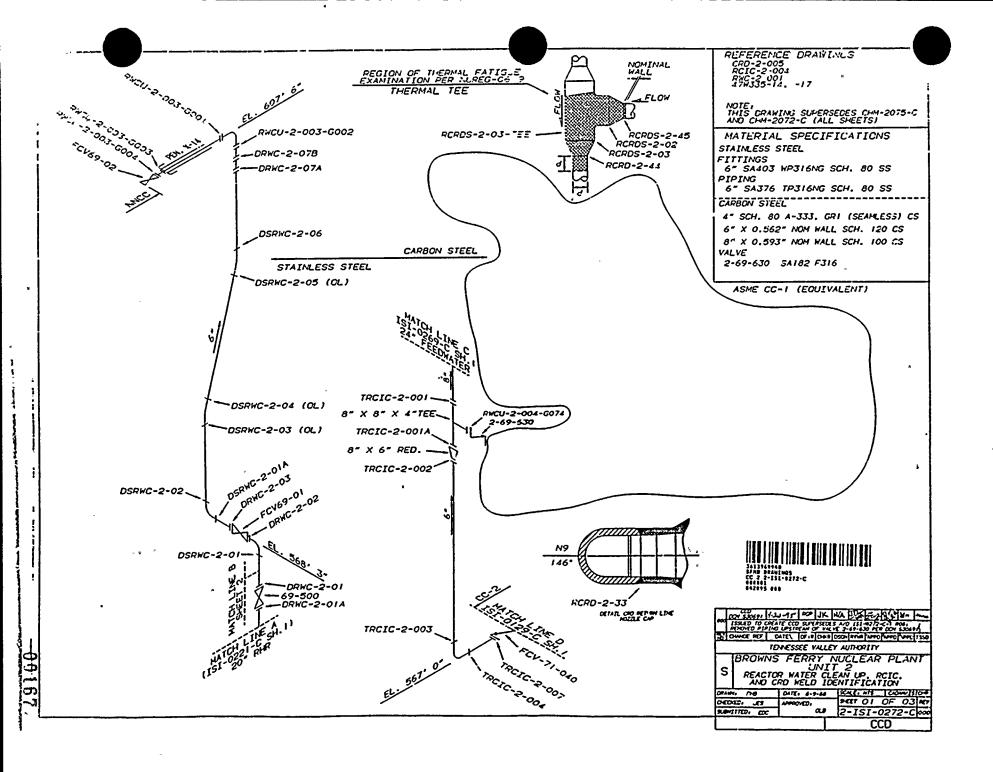
· · ·

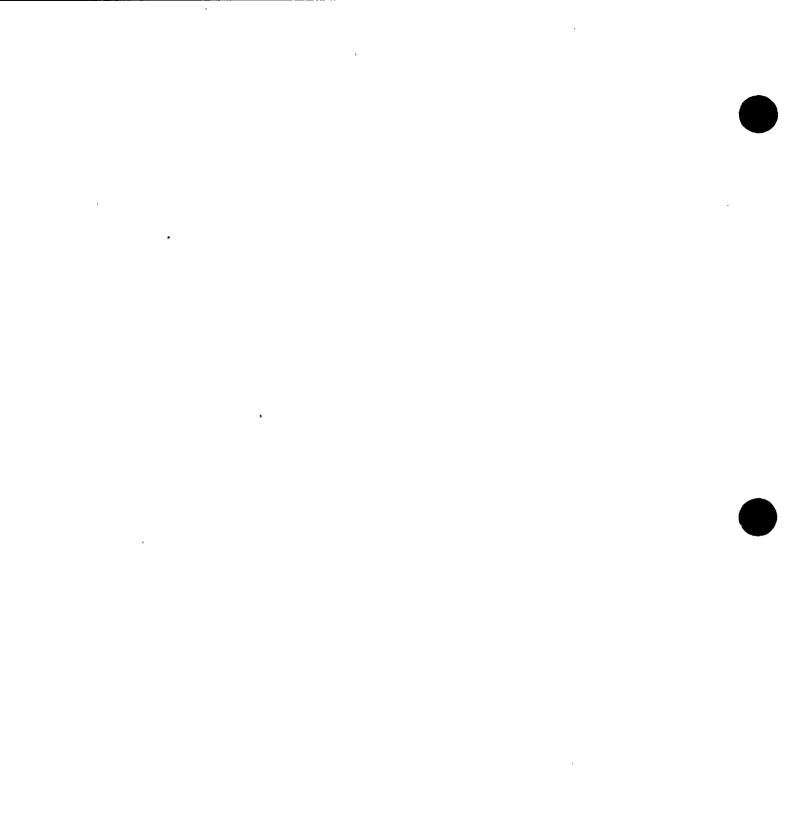
.

· · · · ·

、 、





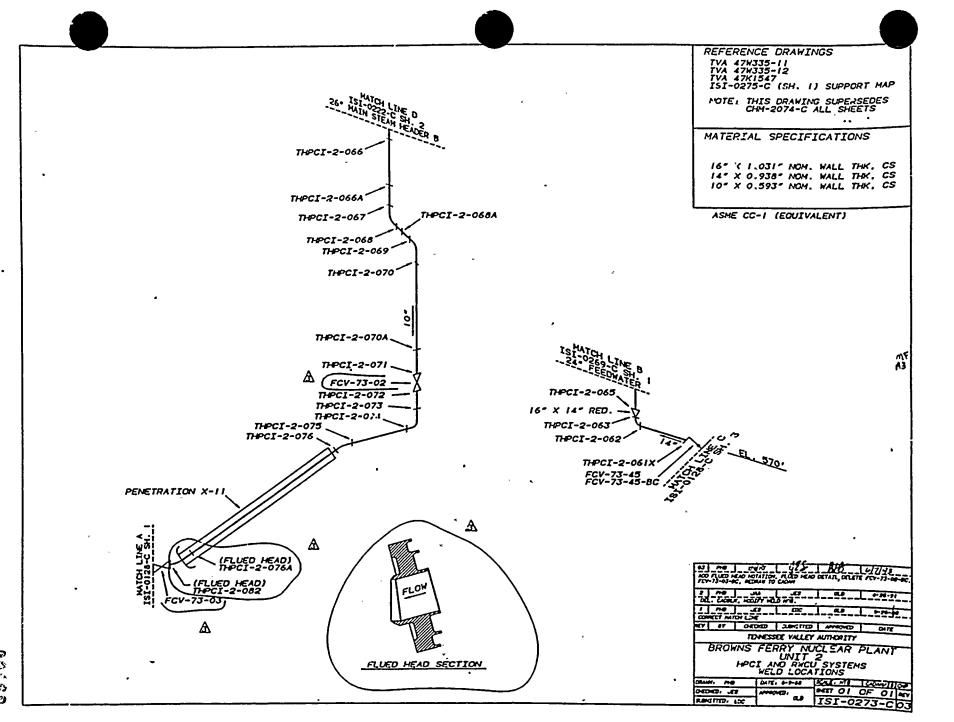


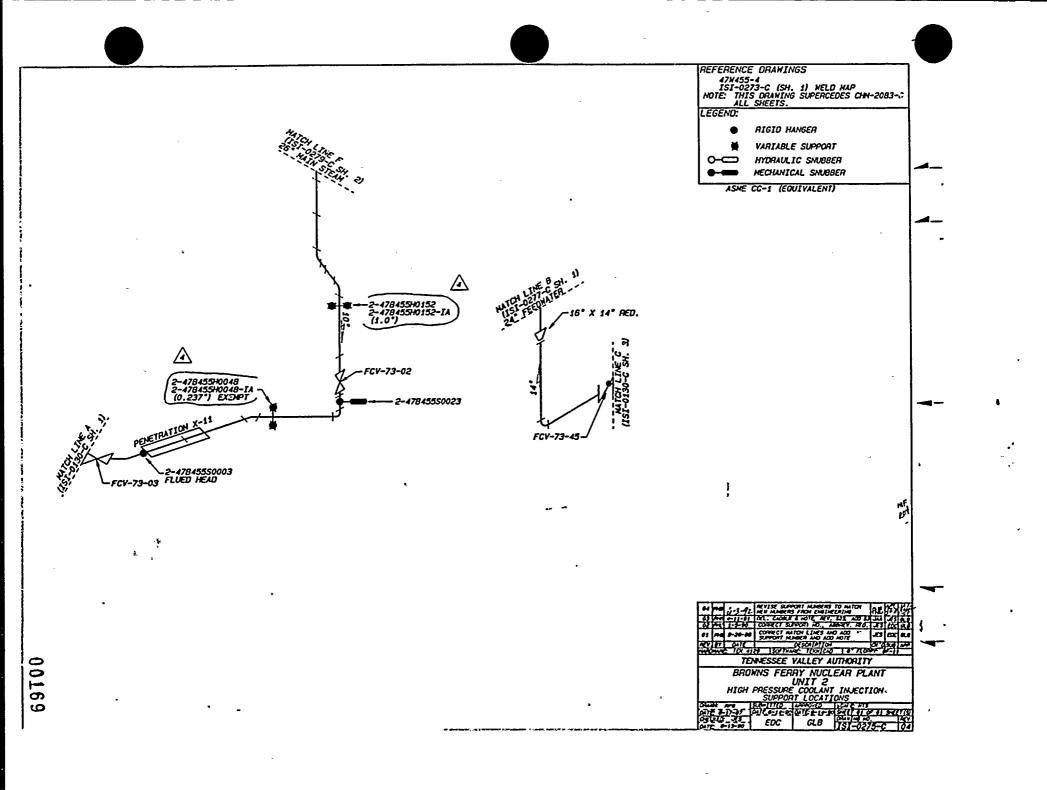
·

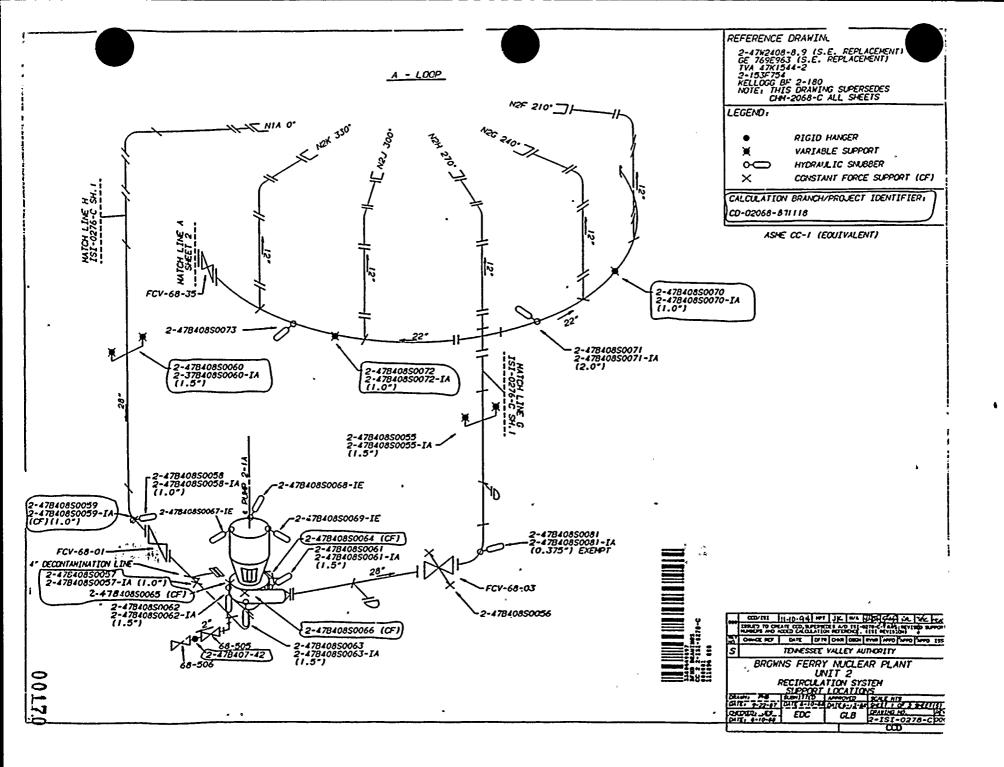
4, i **k**

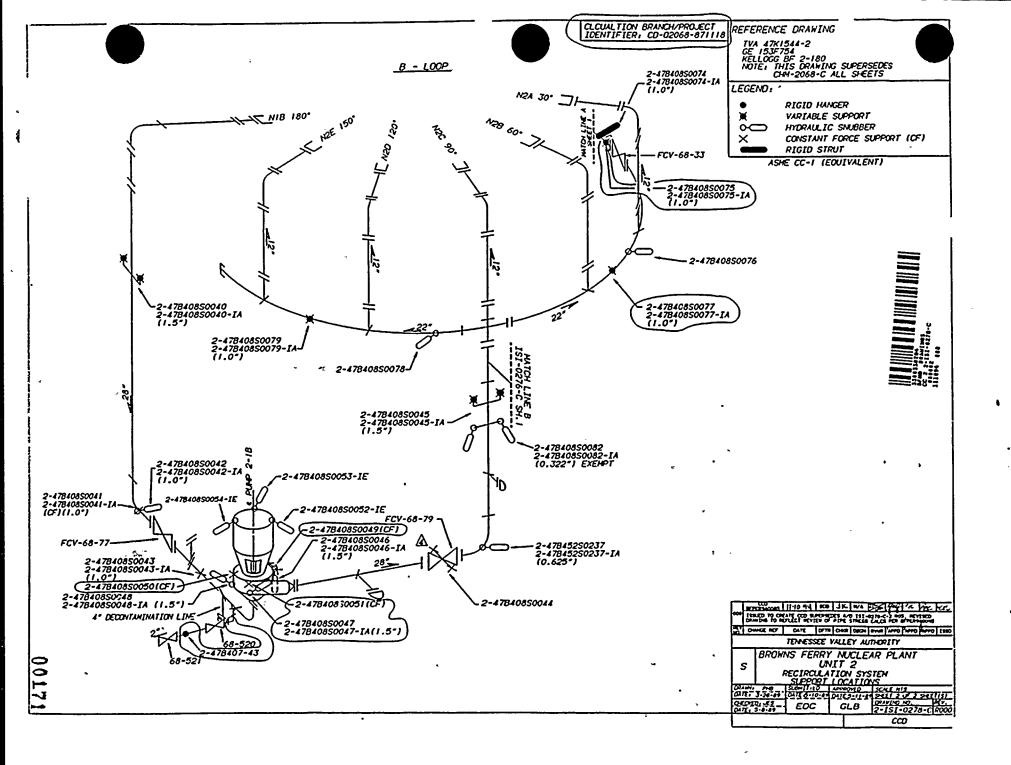
۶,

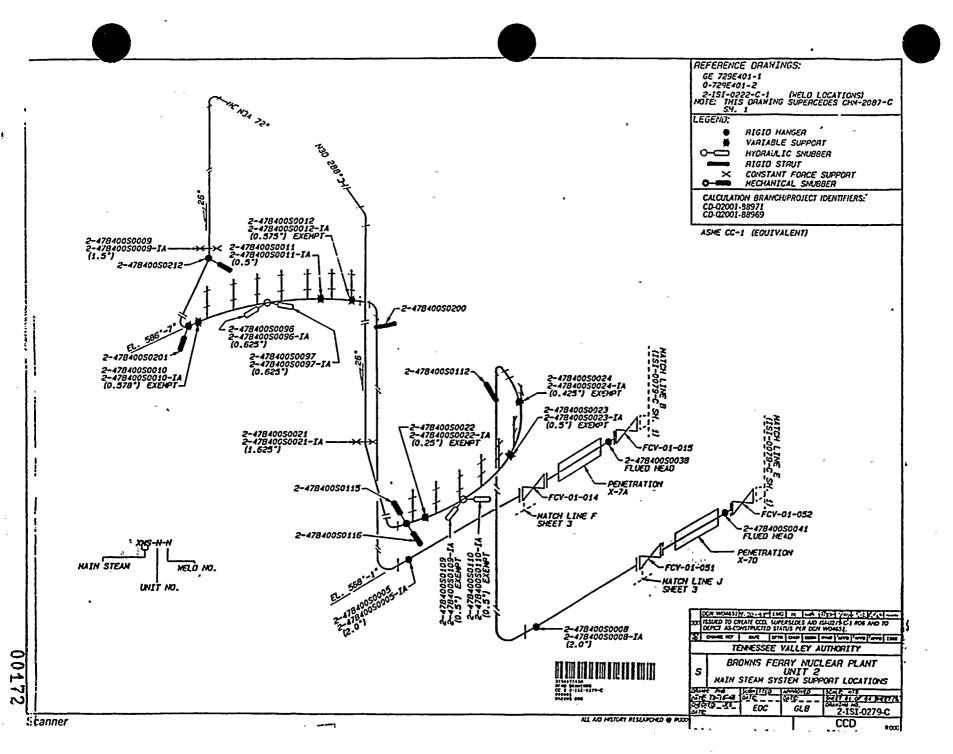
, "

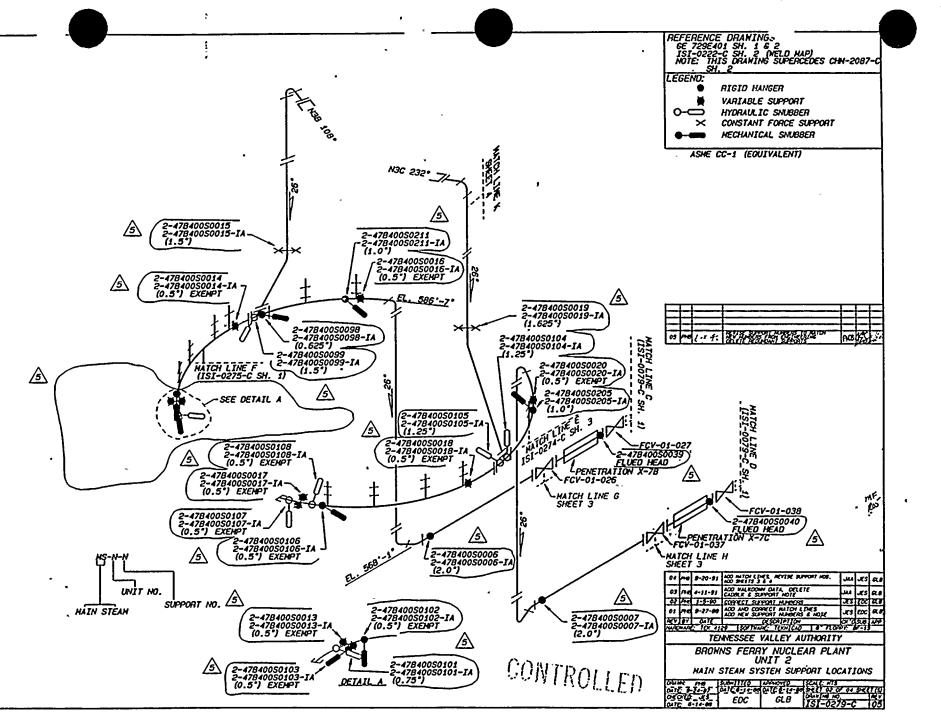


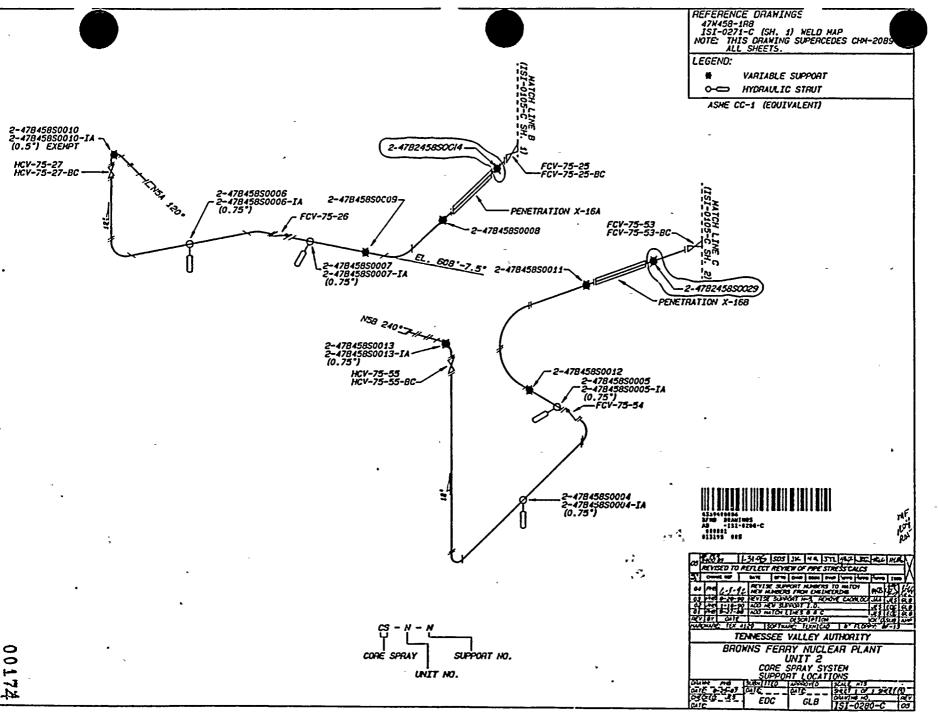




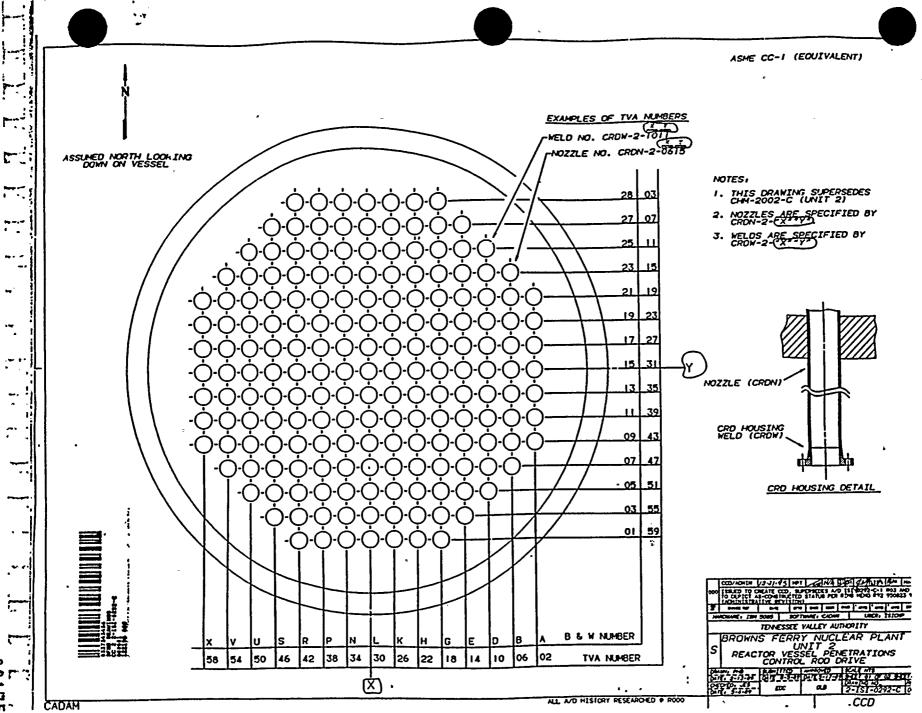


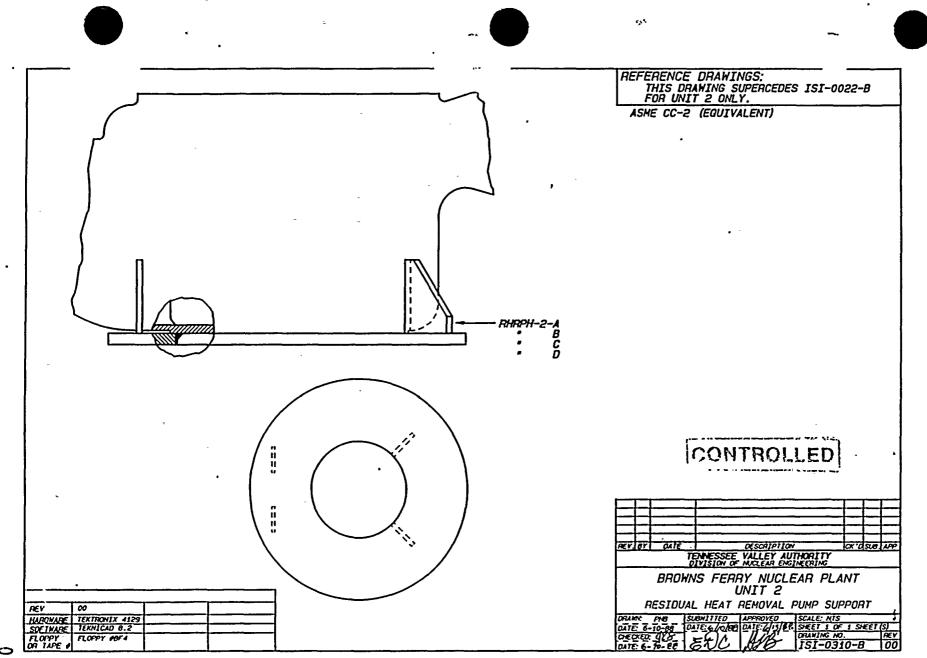


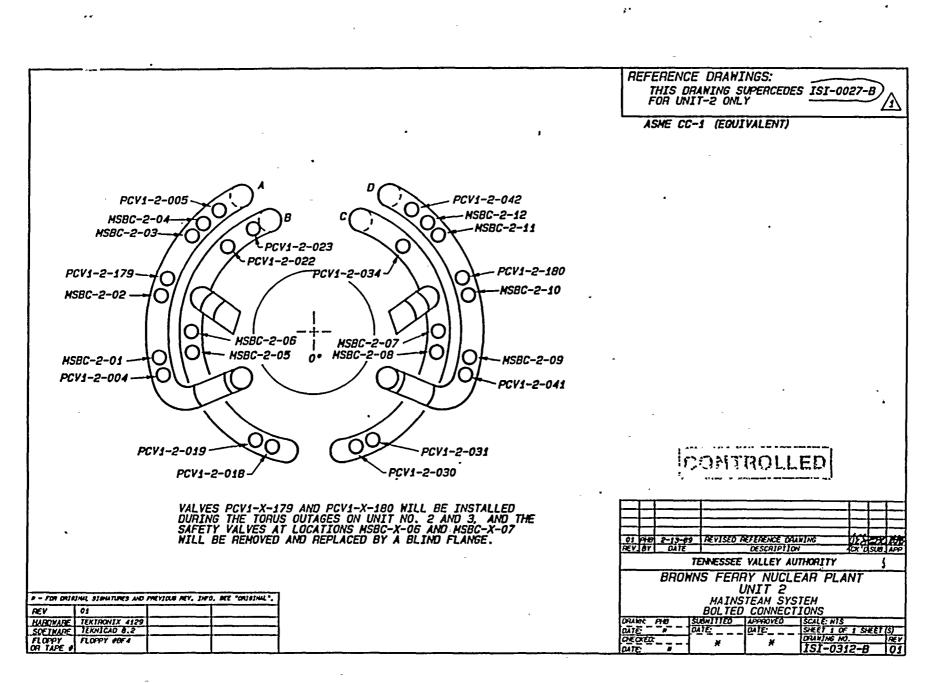




-1

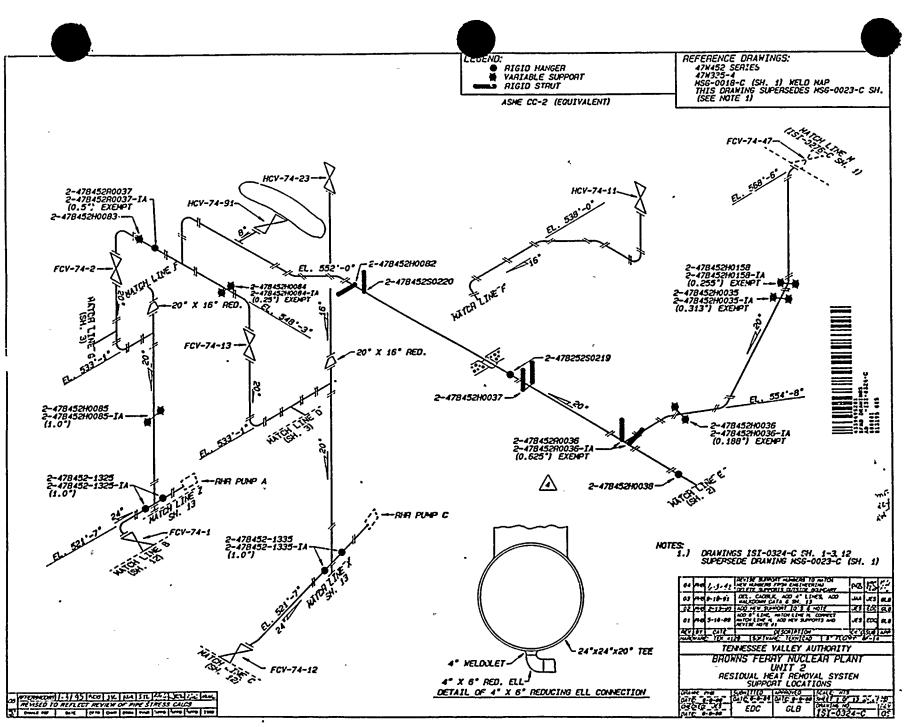






0 0 -----3

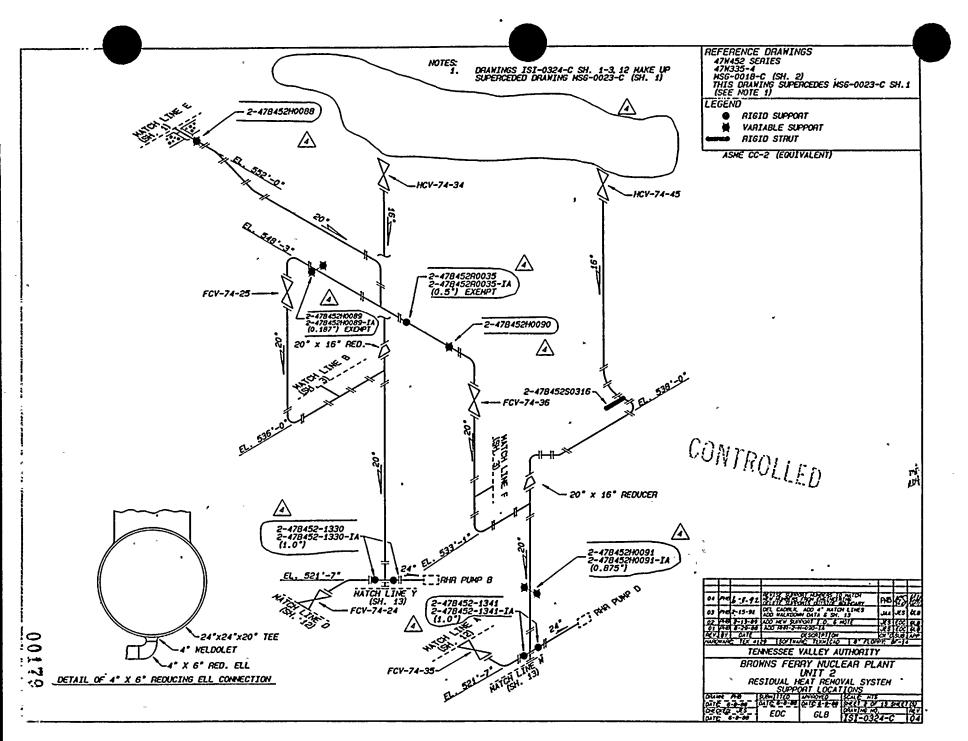
-3

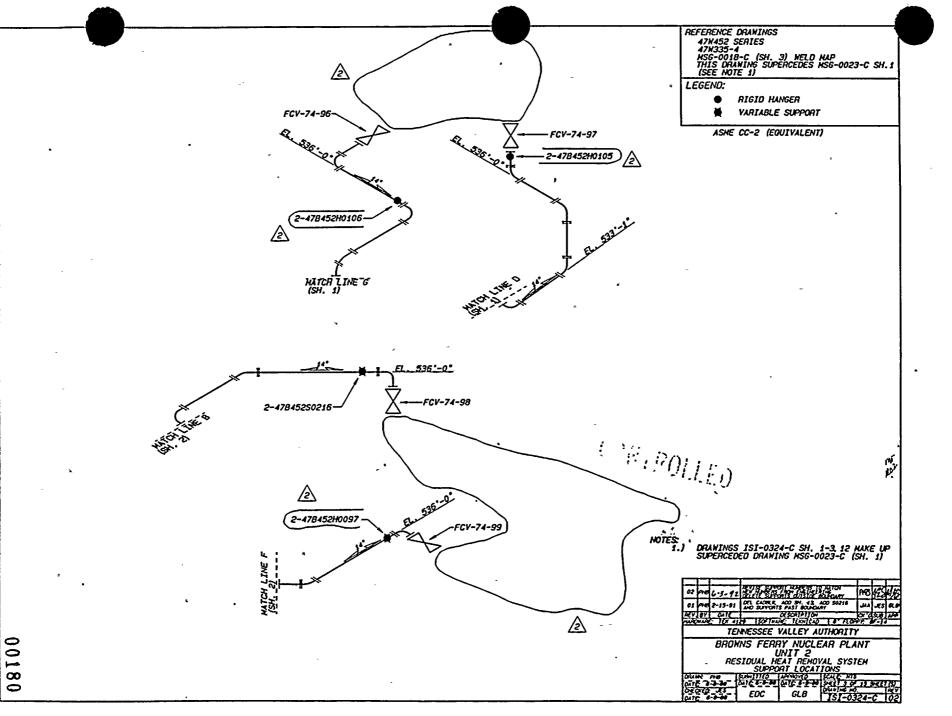


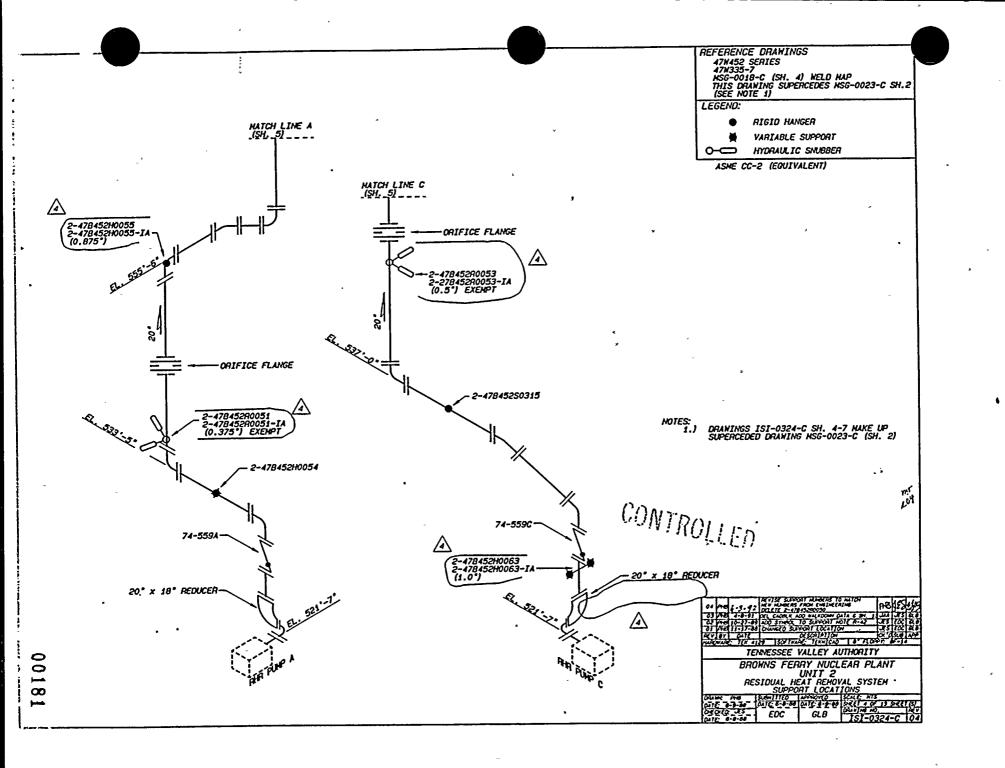
.

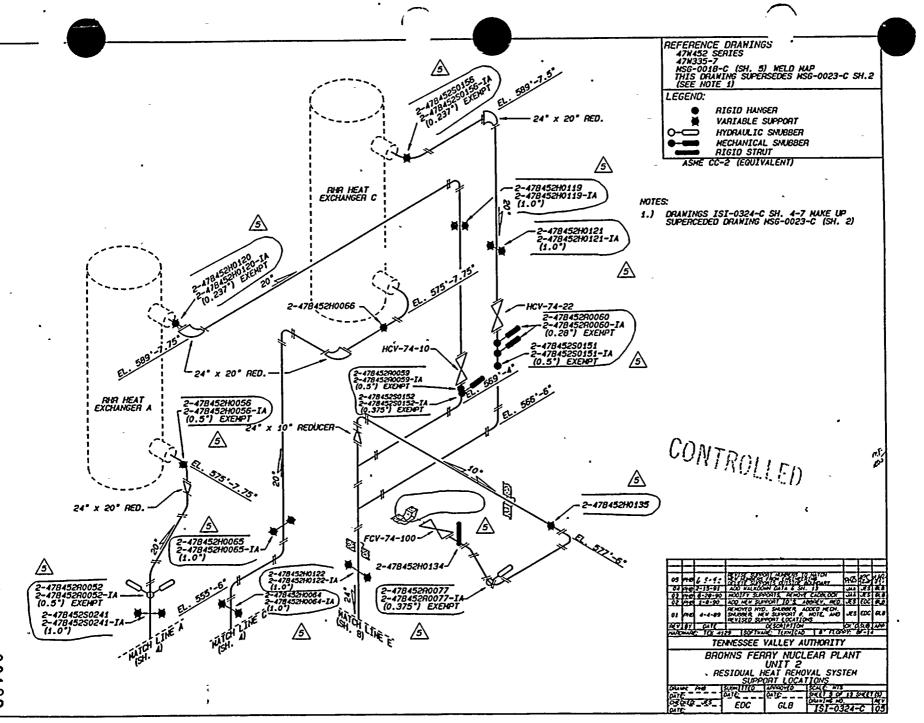
-1 00

. .





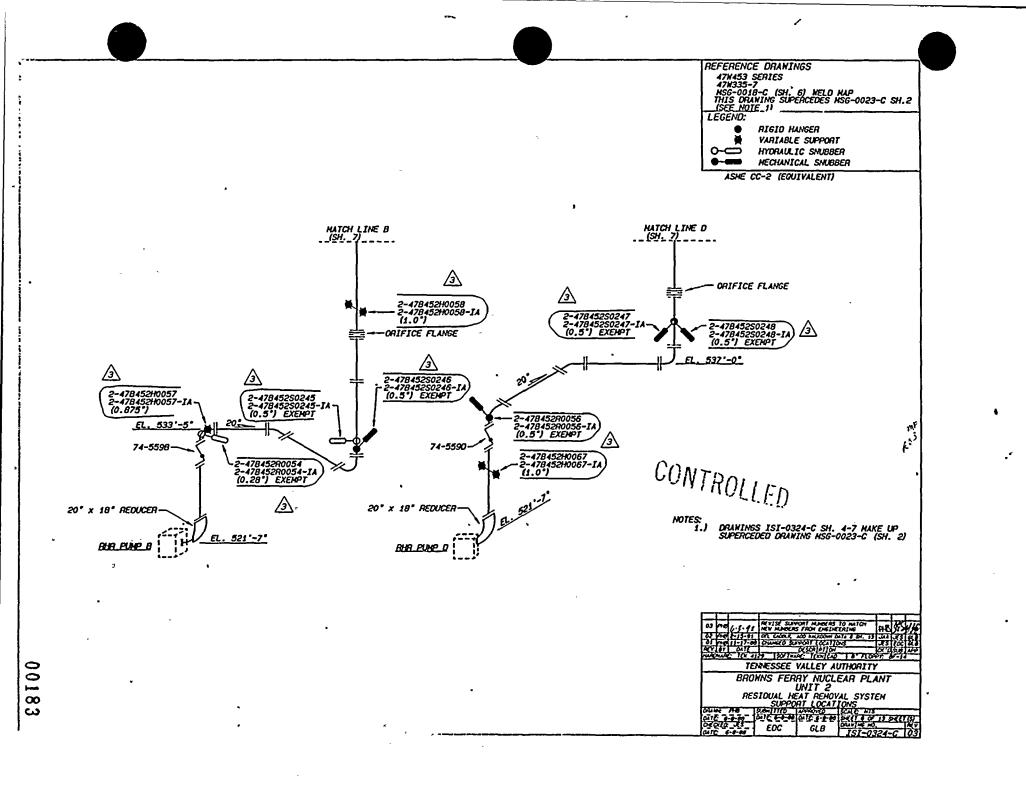


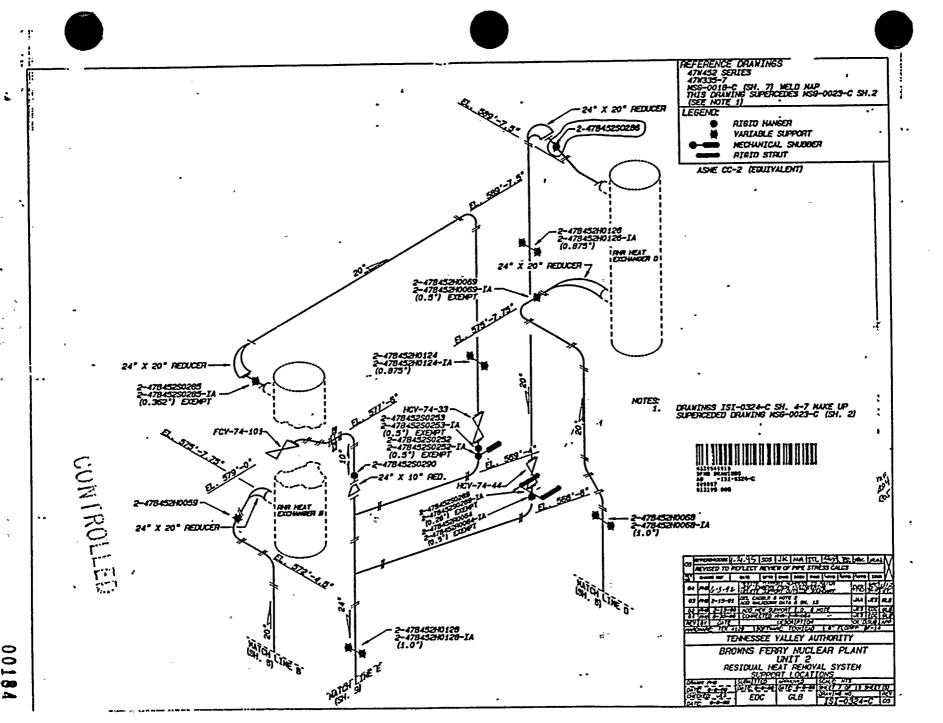


•

۰ ۰

,



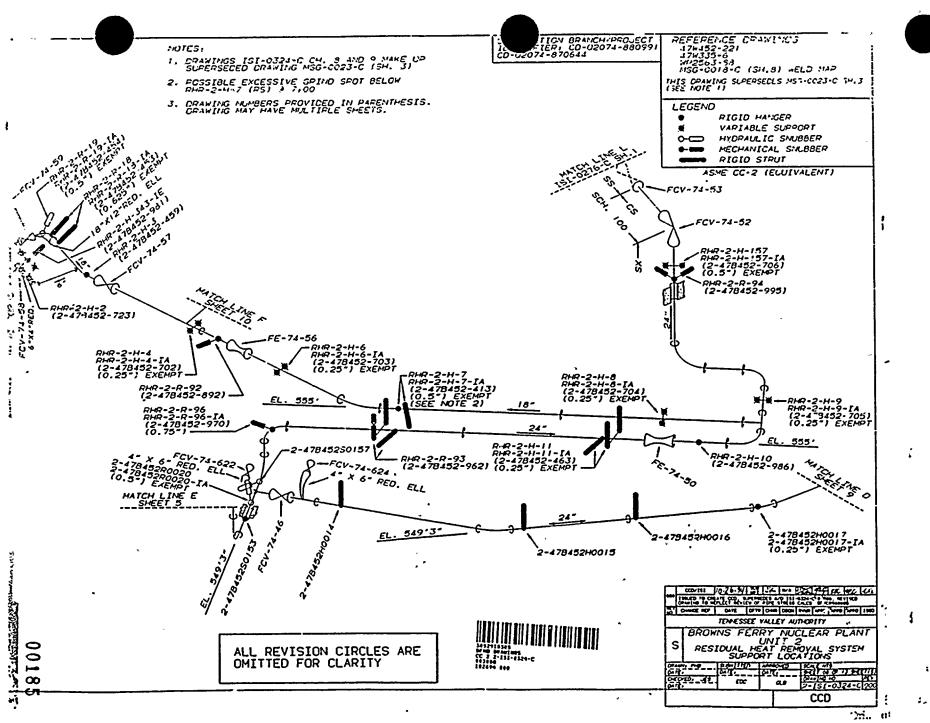


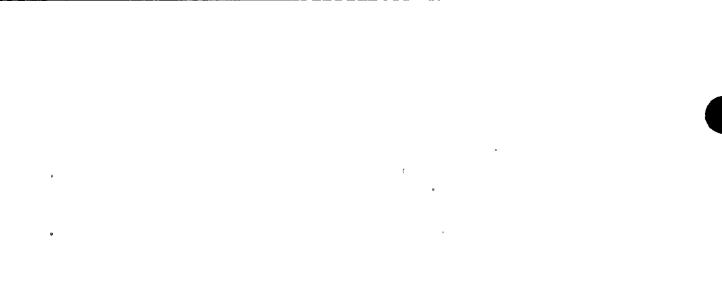
5 ----09

, e

......

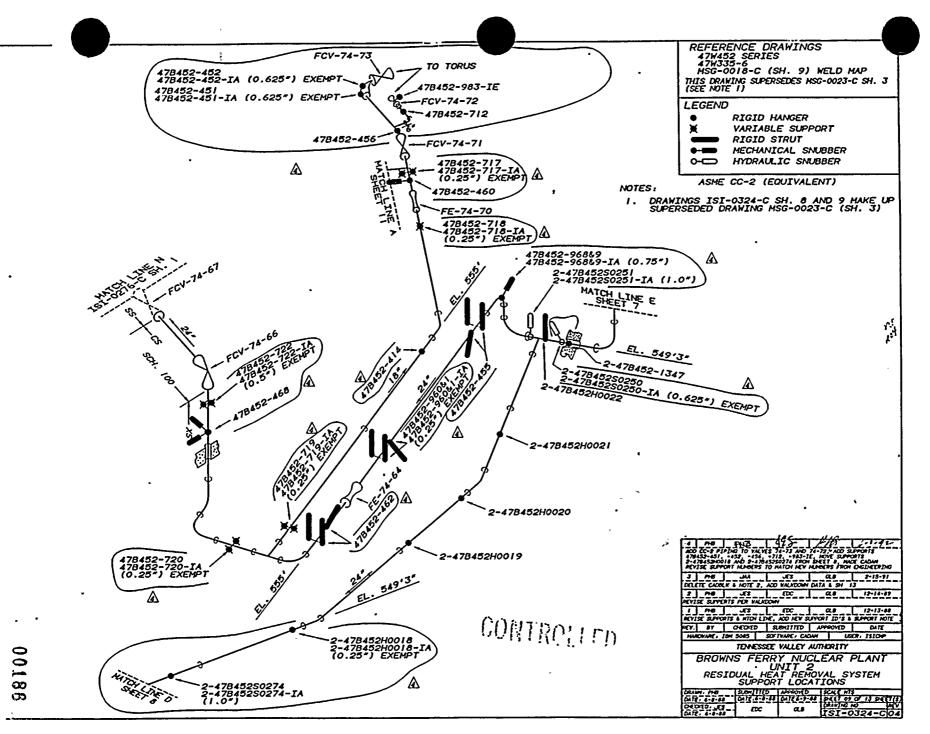
τ.



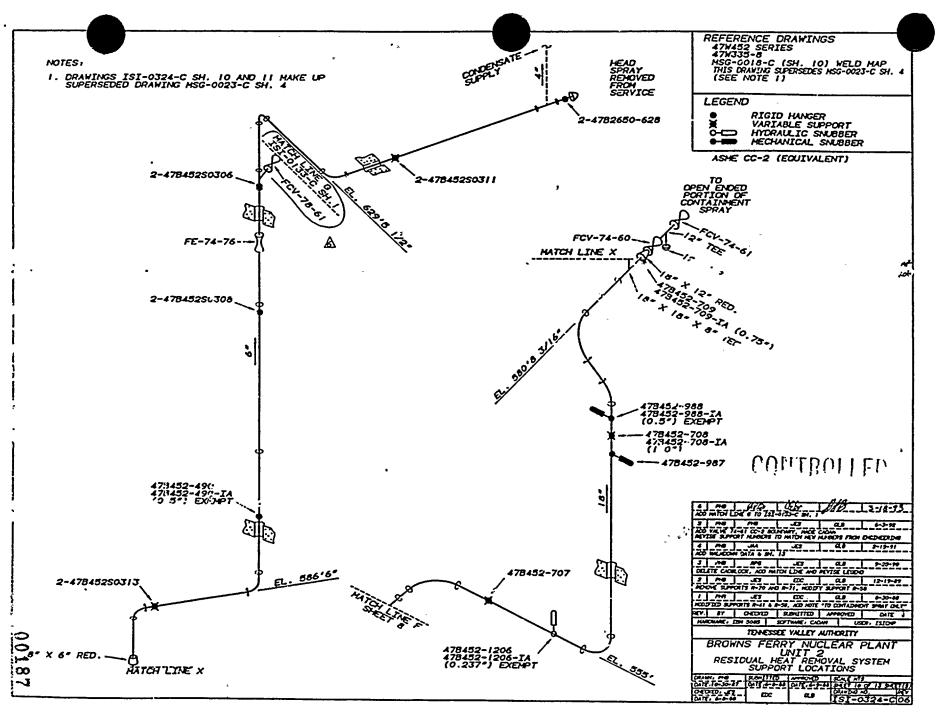


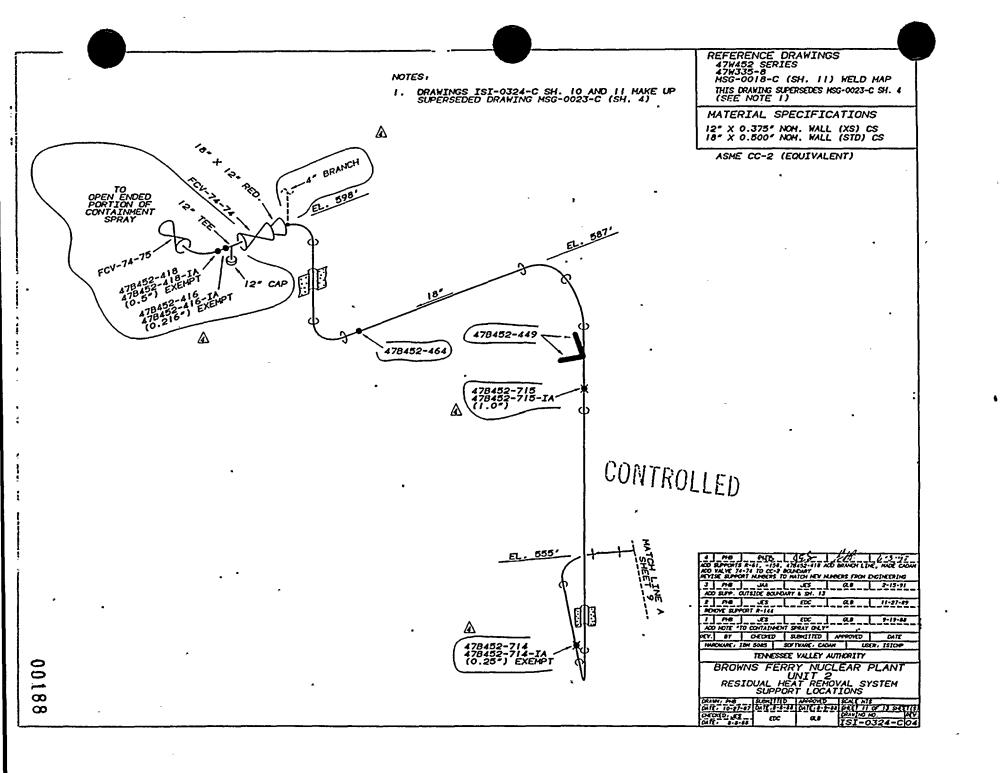
·

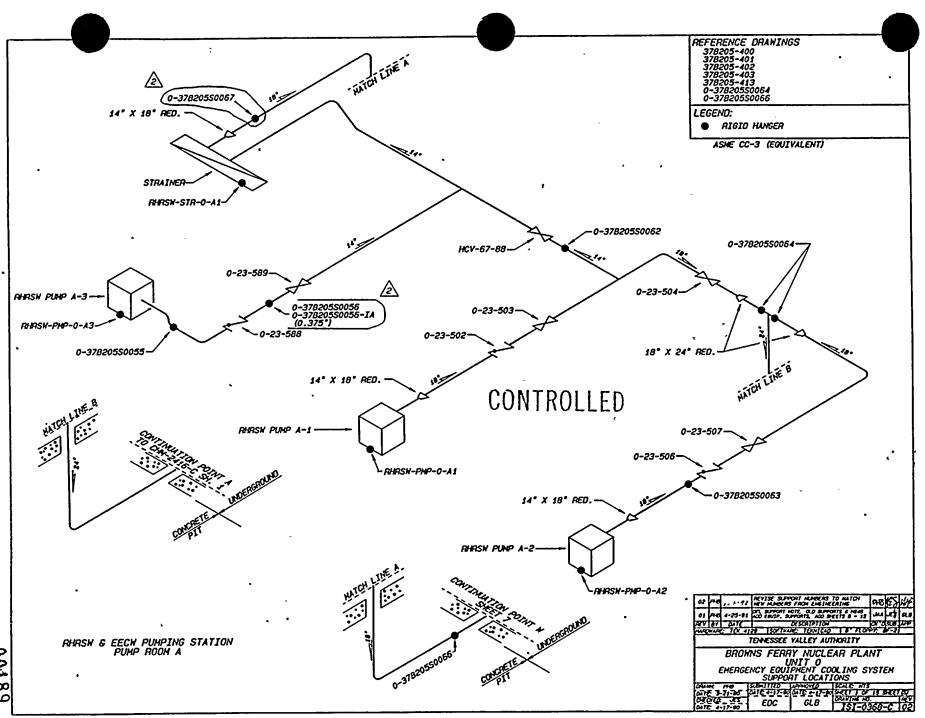
ч - ъ ^н



.







. . .

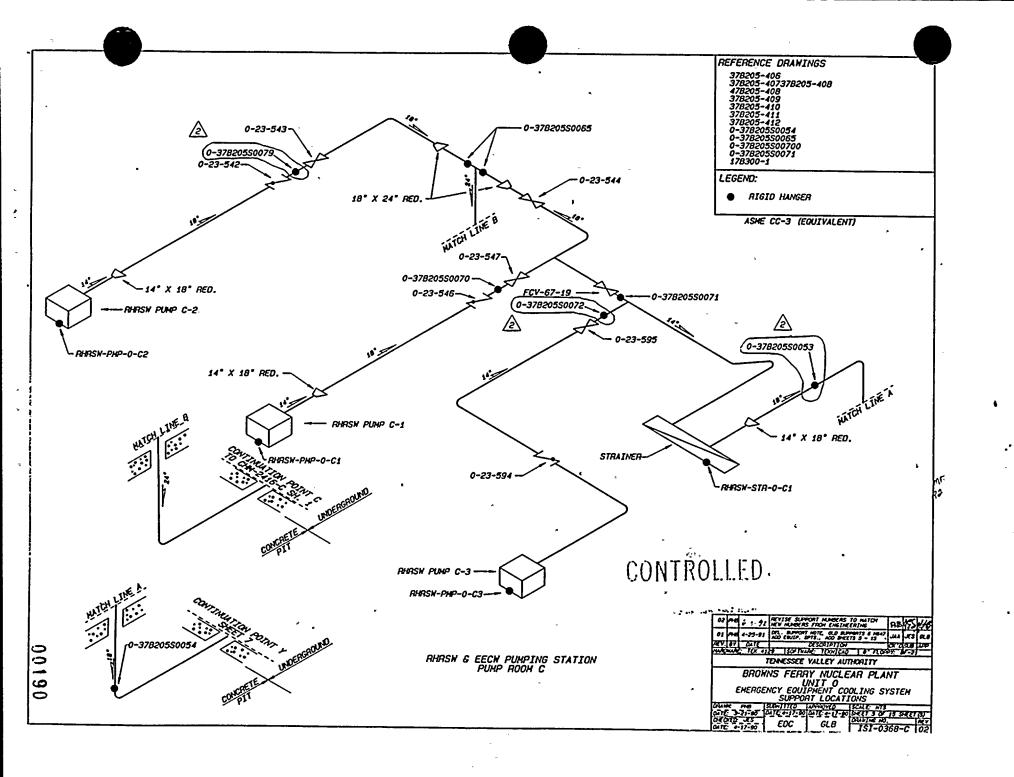
681.00

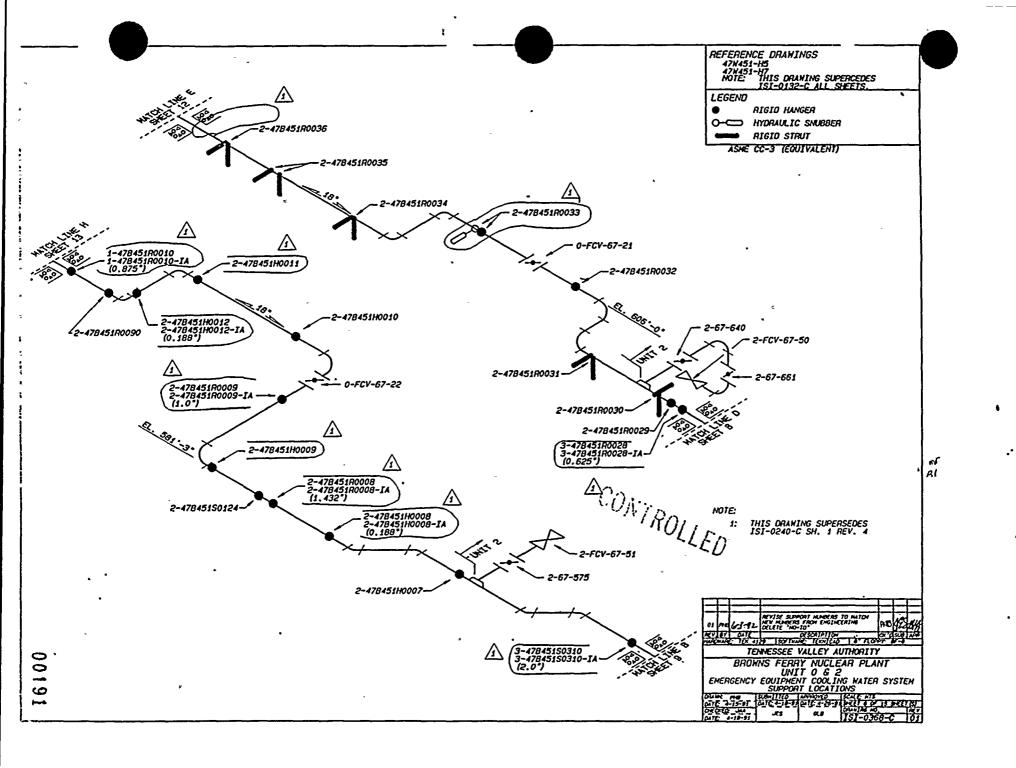
,

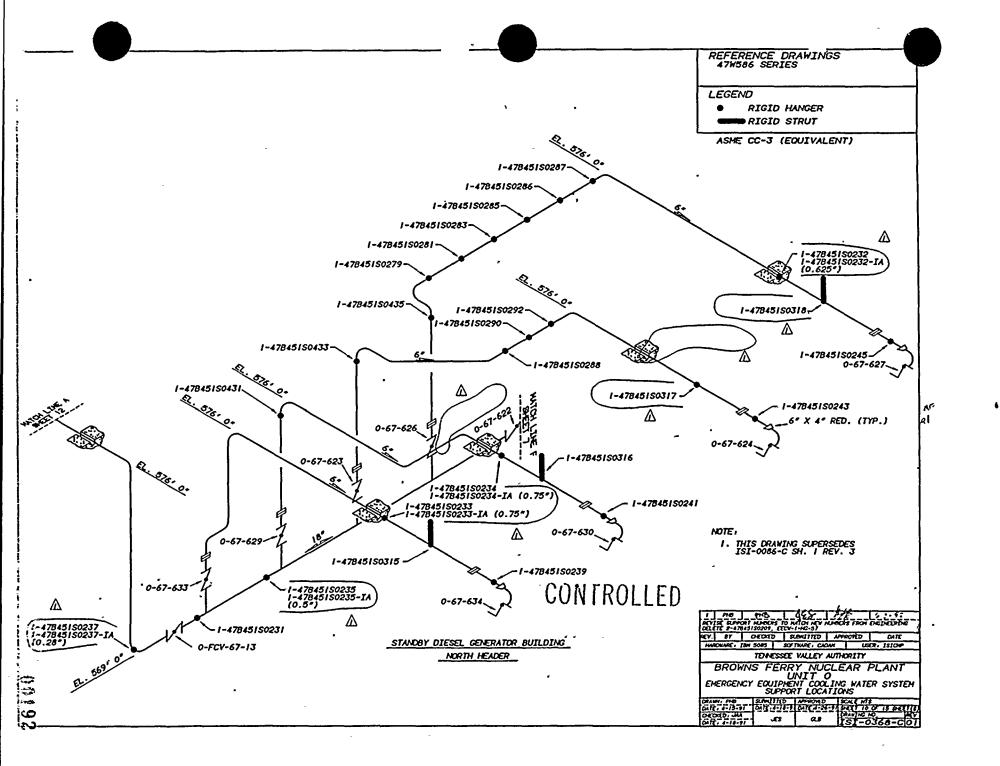
.

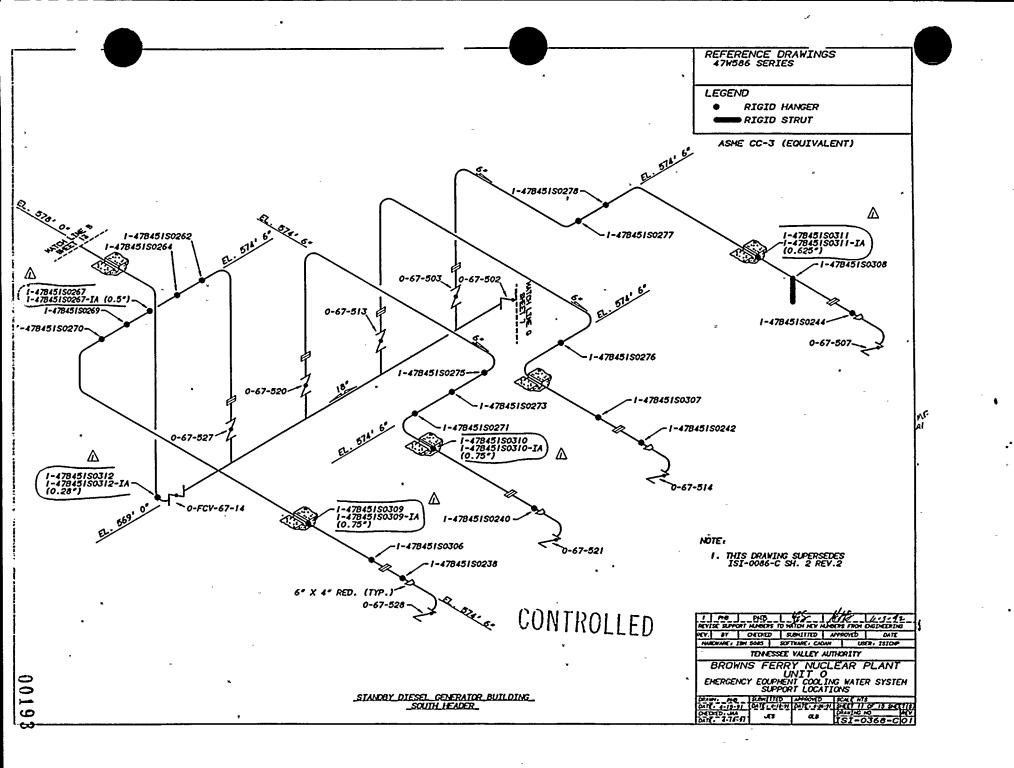
į

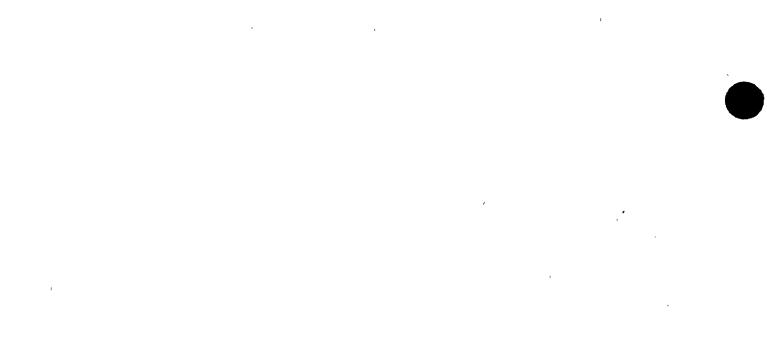
• el





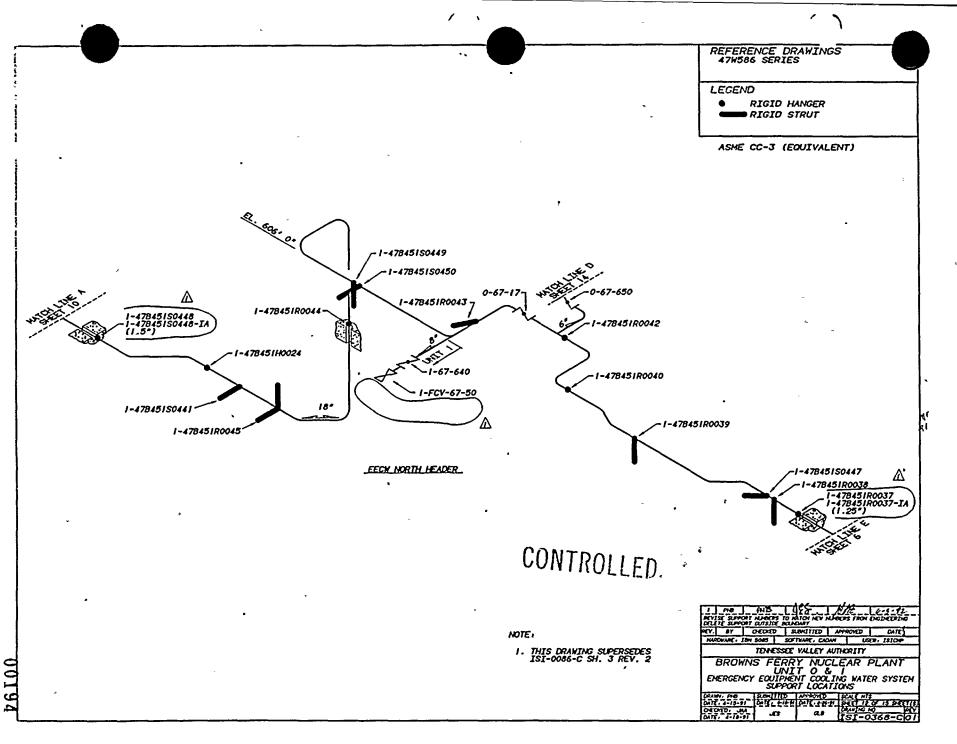






• • •

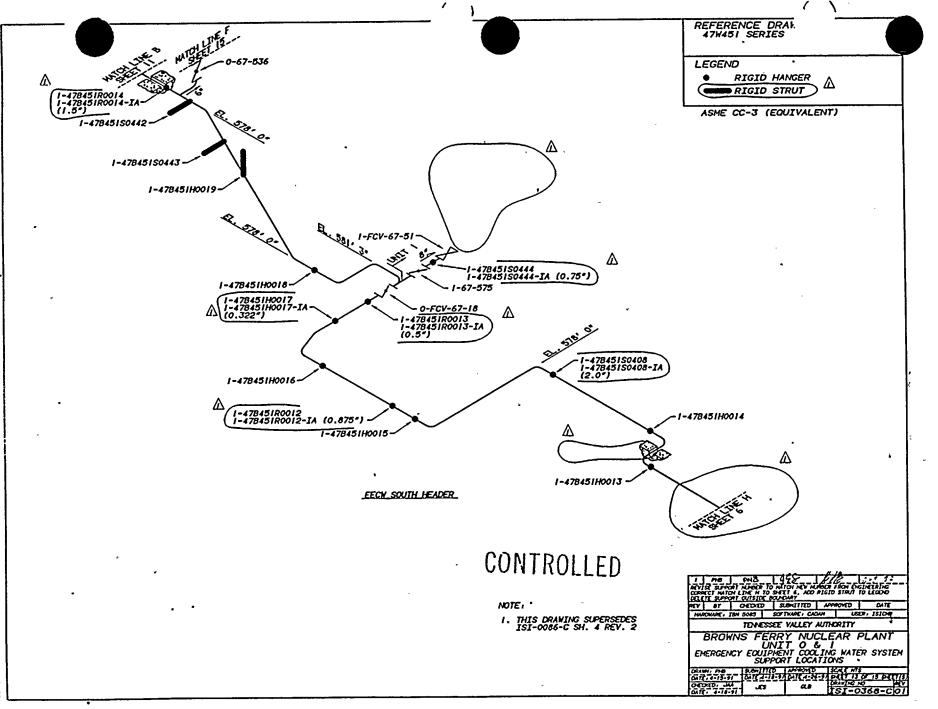
. .



_

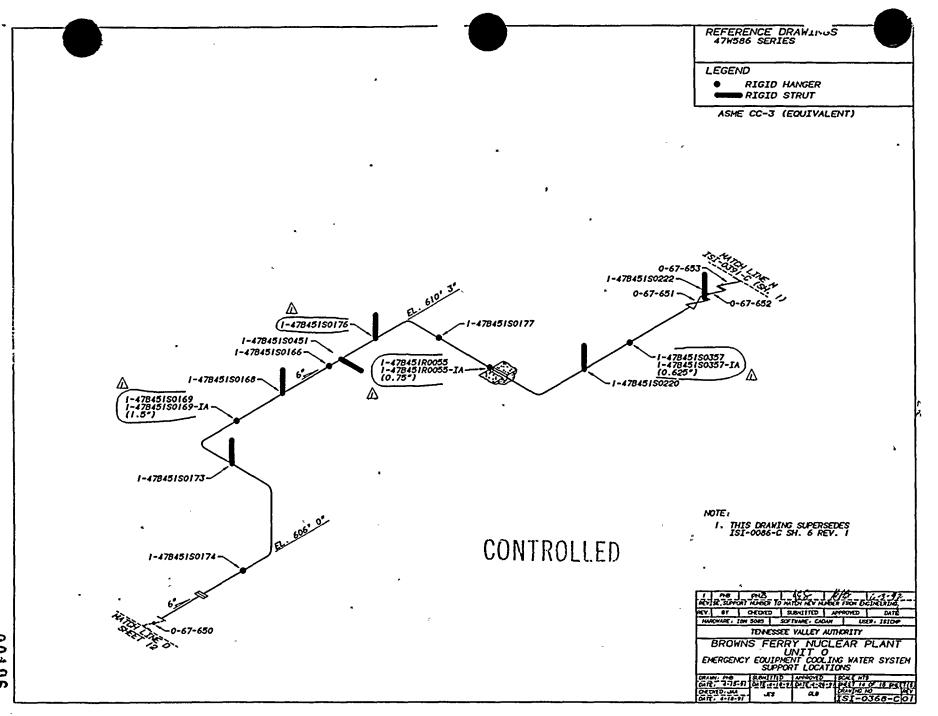
.

.



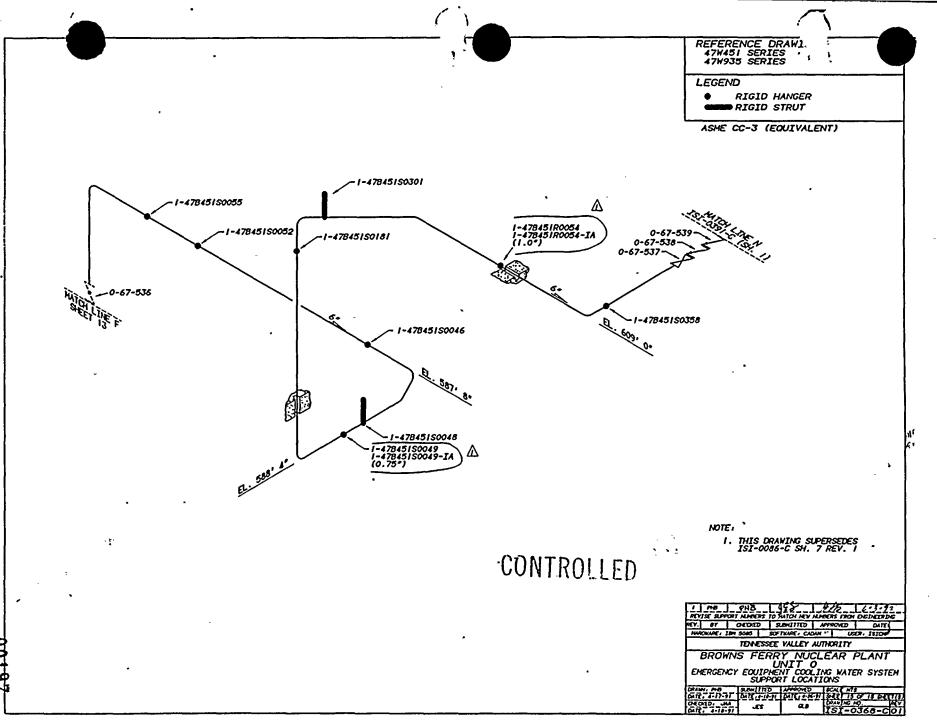
T

the state of the s



ന

n de la construcción de la constru La construcción de la construcción d



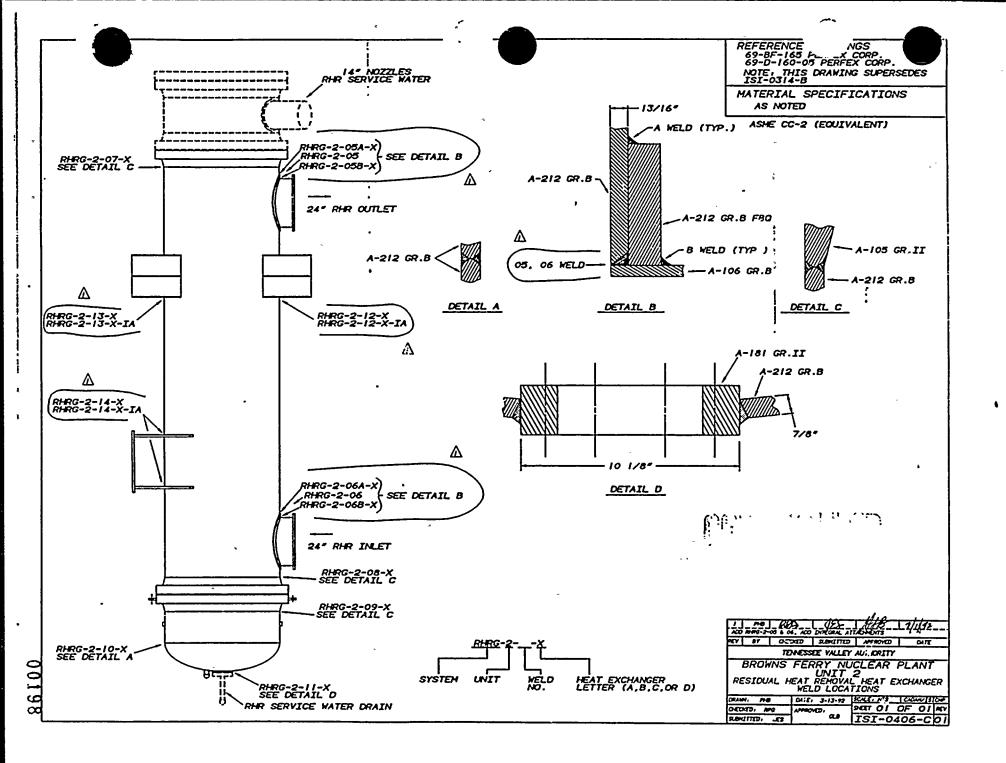
.

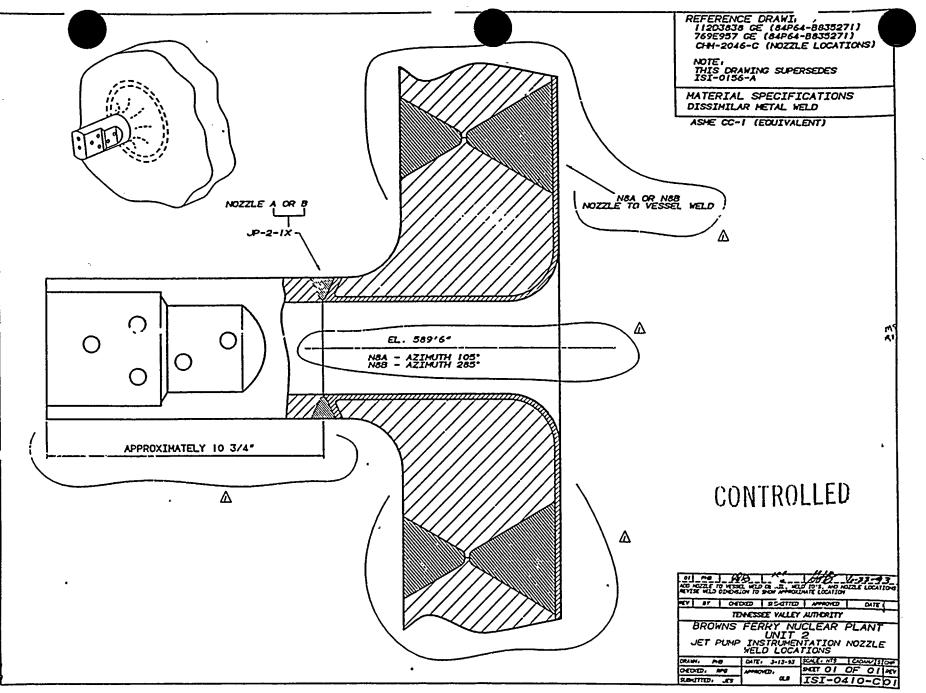
· • · ۹,

.

et.

ŗ

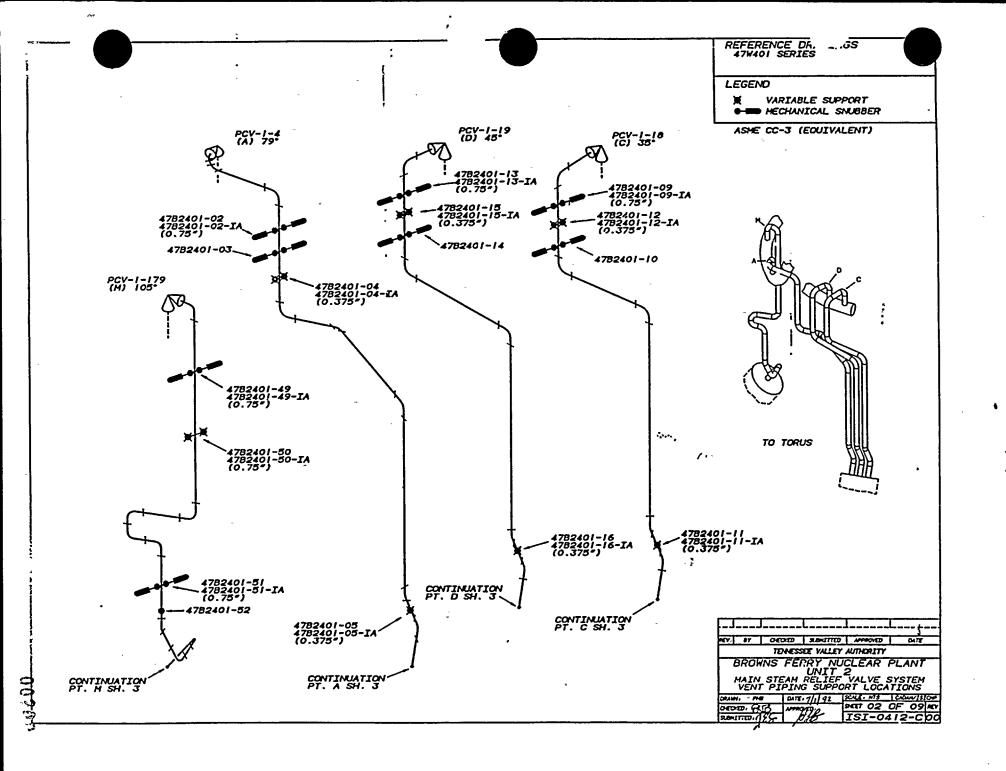


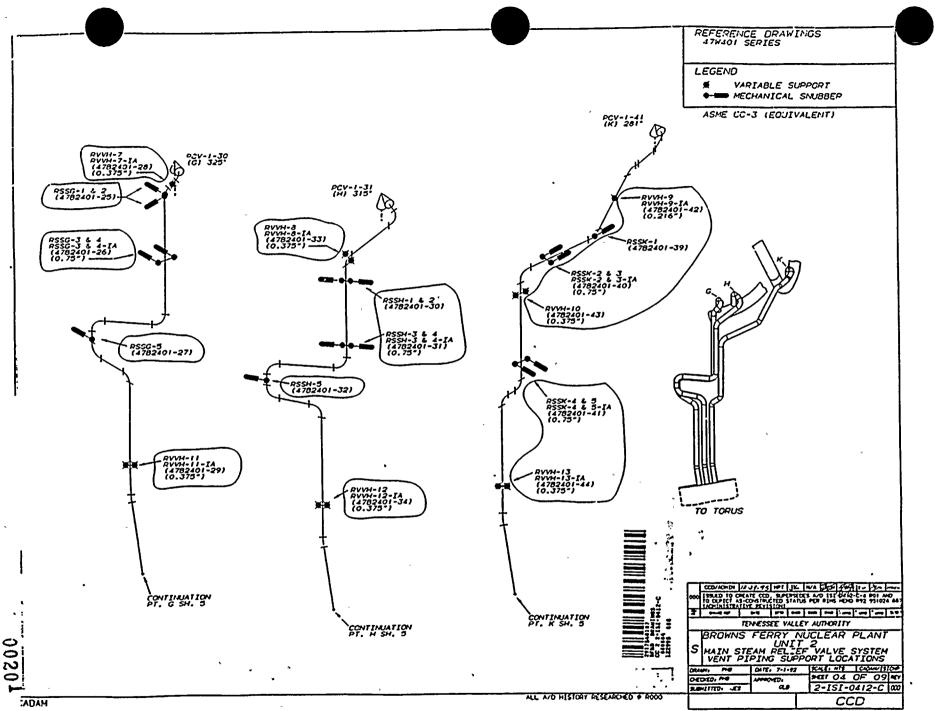


.

00 919

٤Ć





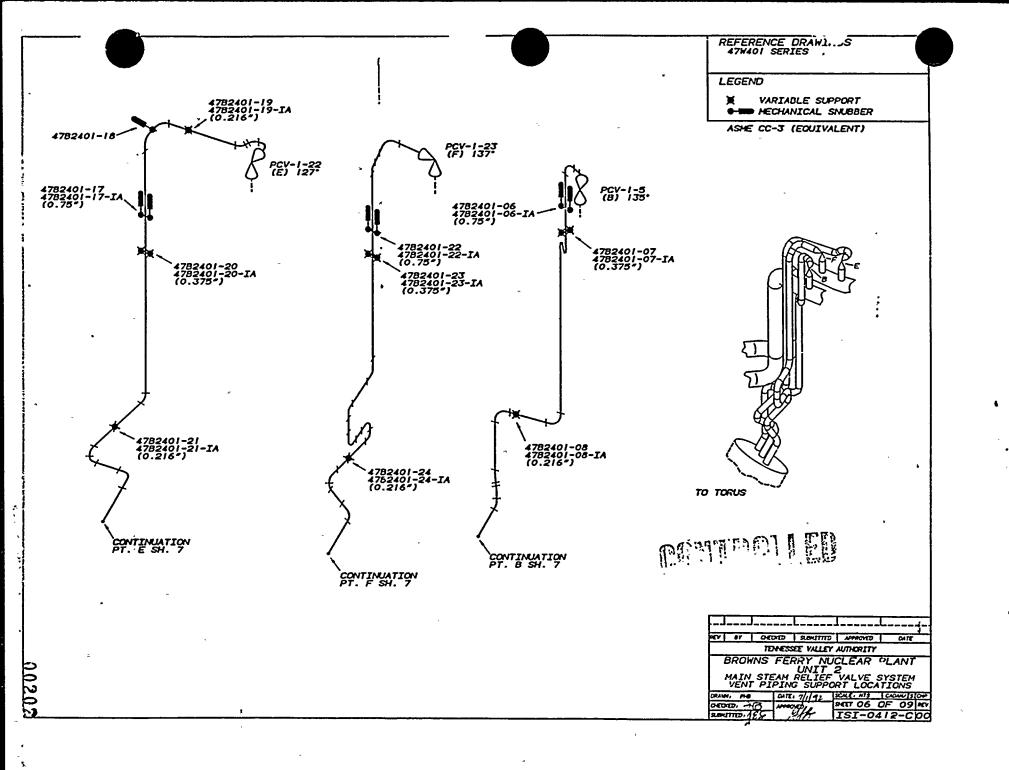
JAUAM

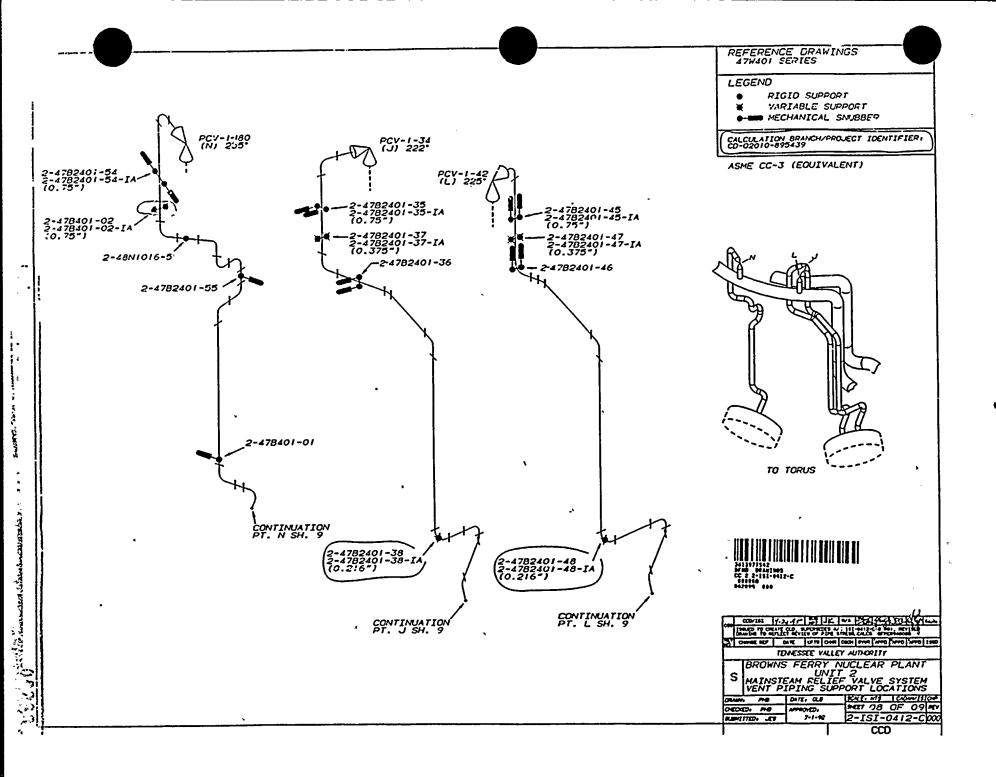
,

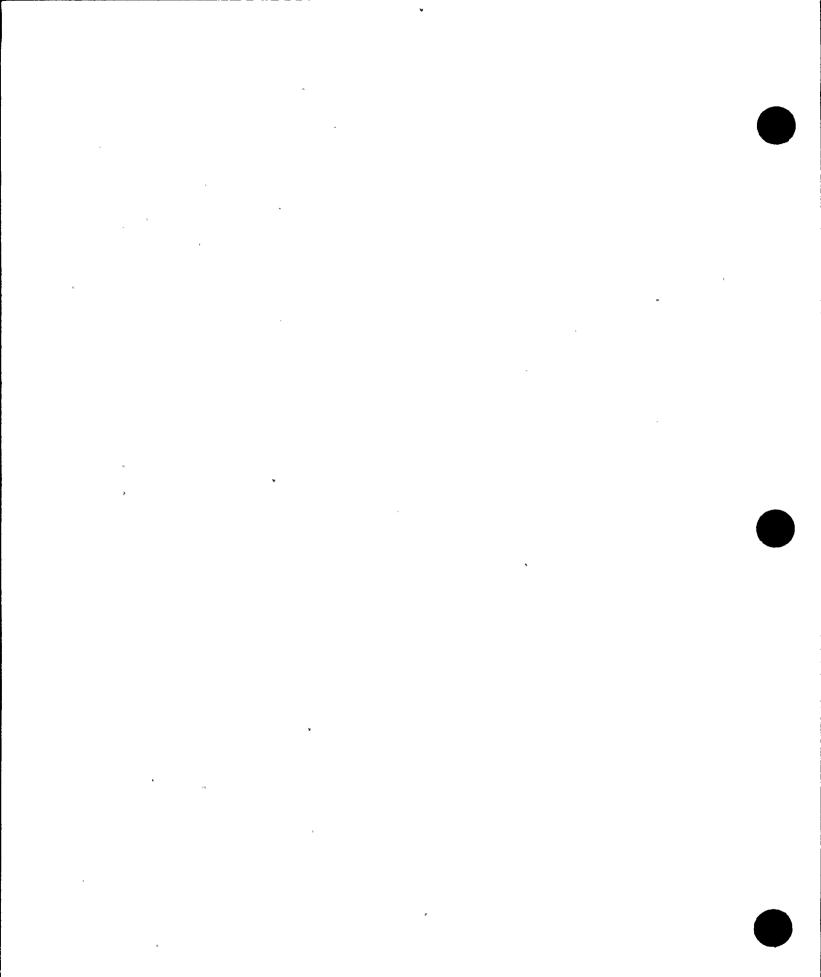
•

Þ

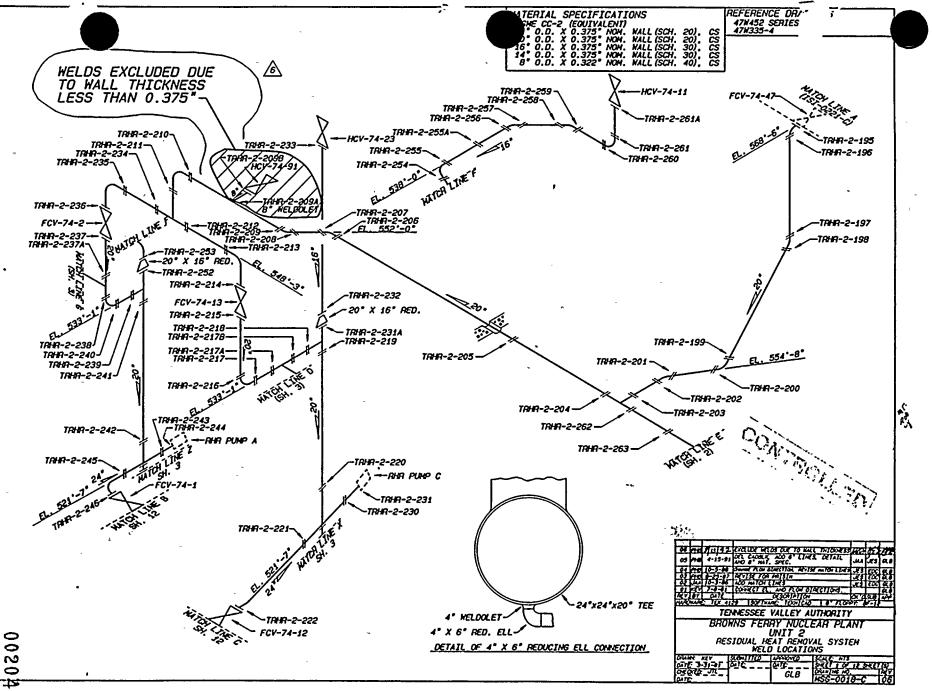
ા તુર્ગ કે કુર્યુક કરાય છે. આ ગામ છે. કુરાય છે કે કુરાય છે કે આ ગામ છે.







, *, ,*



-15

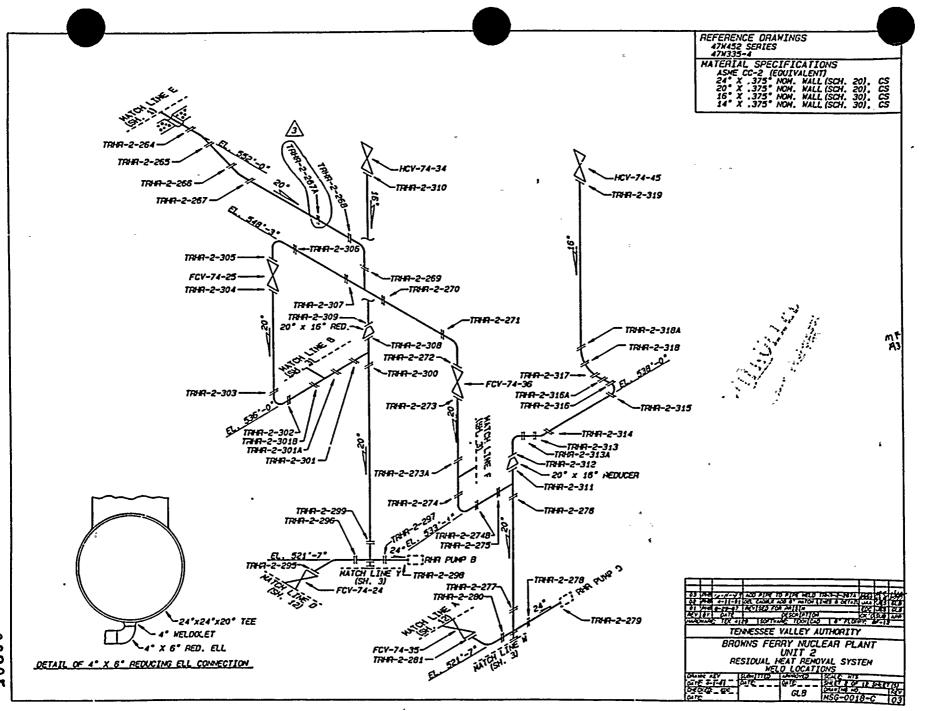
•

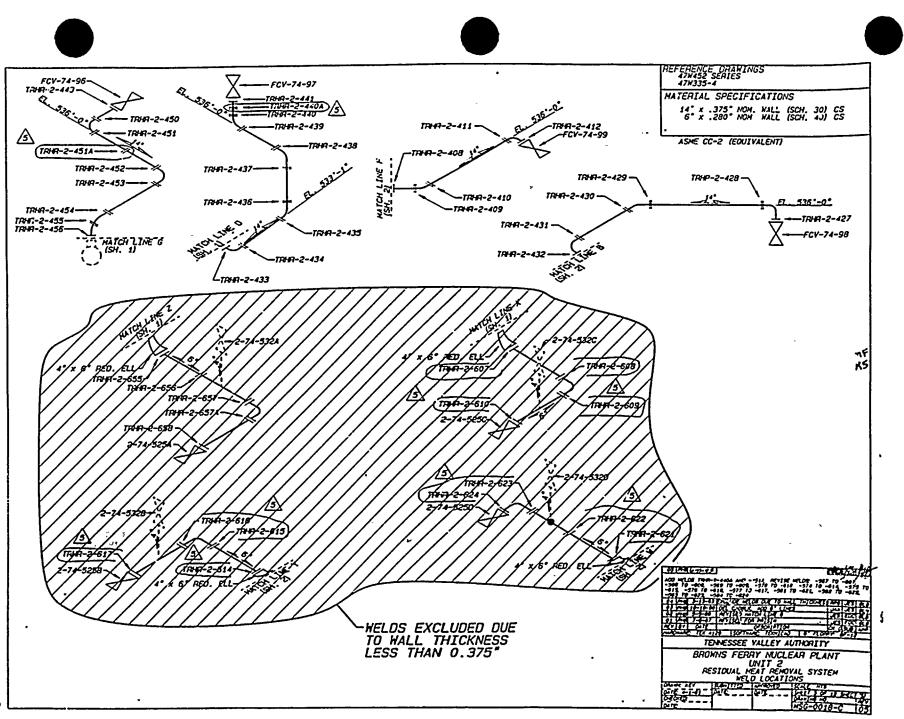
•

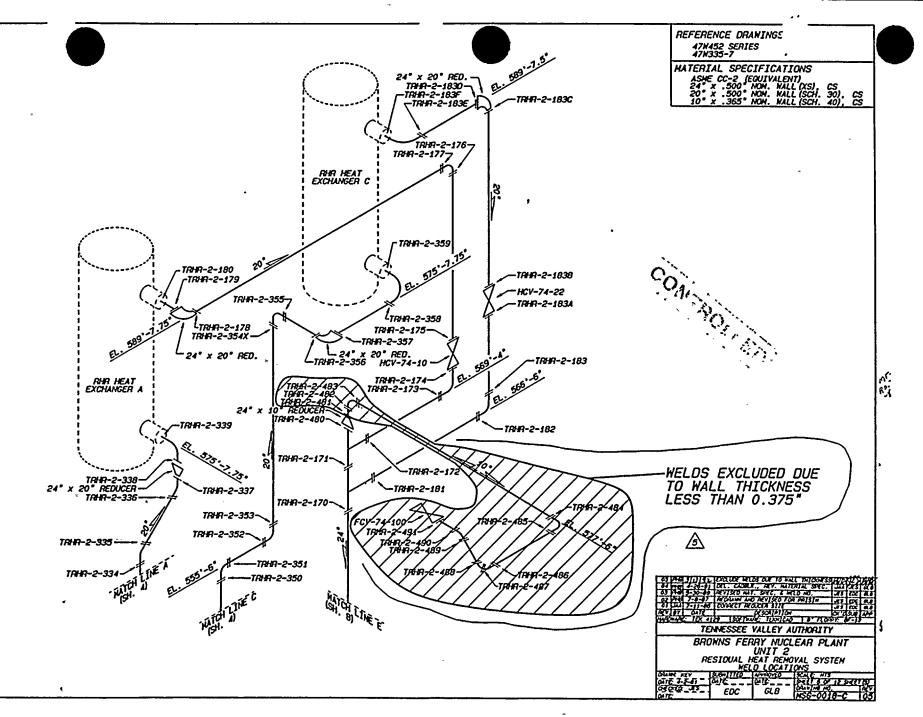
. .

i

•





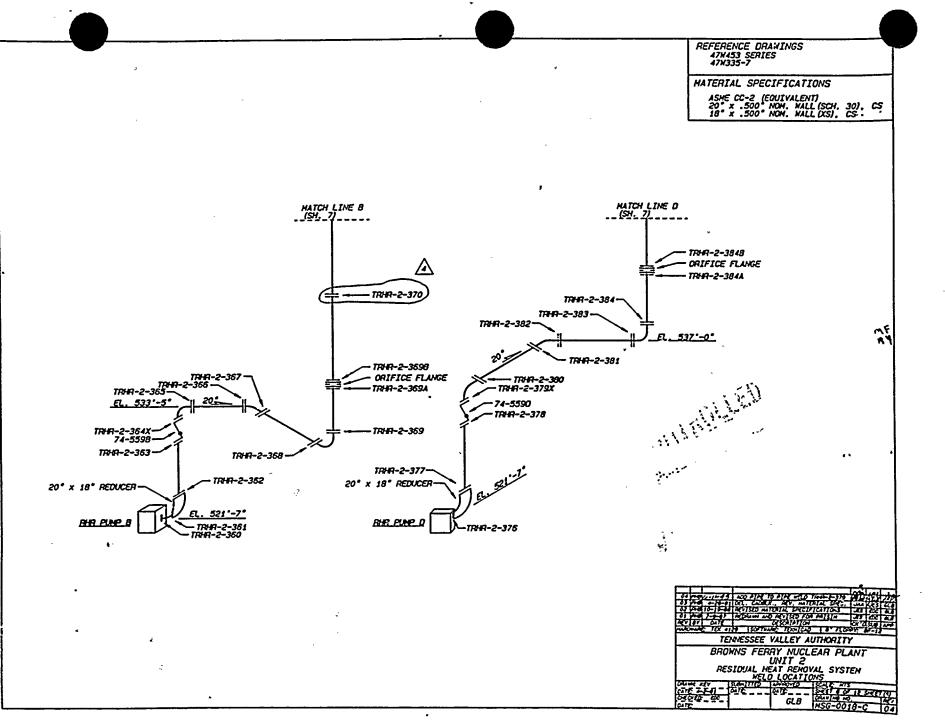


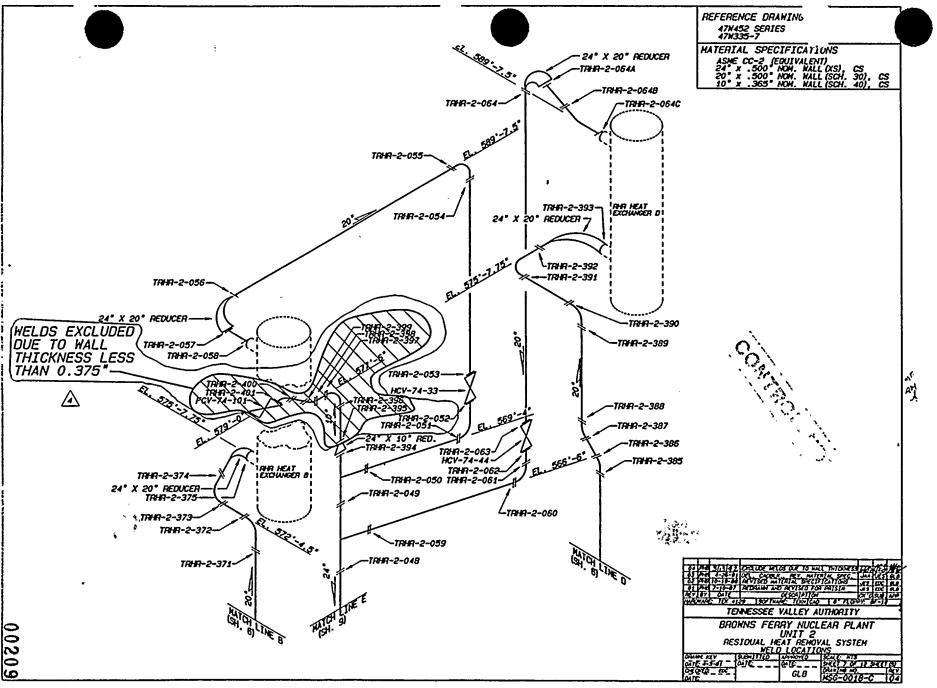
 \sim

, ,

.

ા છે. પંચ દિ⁴ લ જ મ





× 2

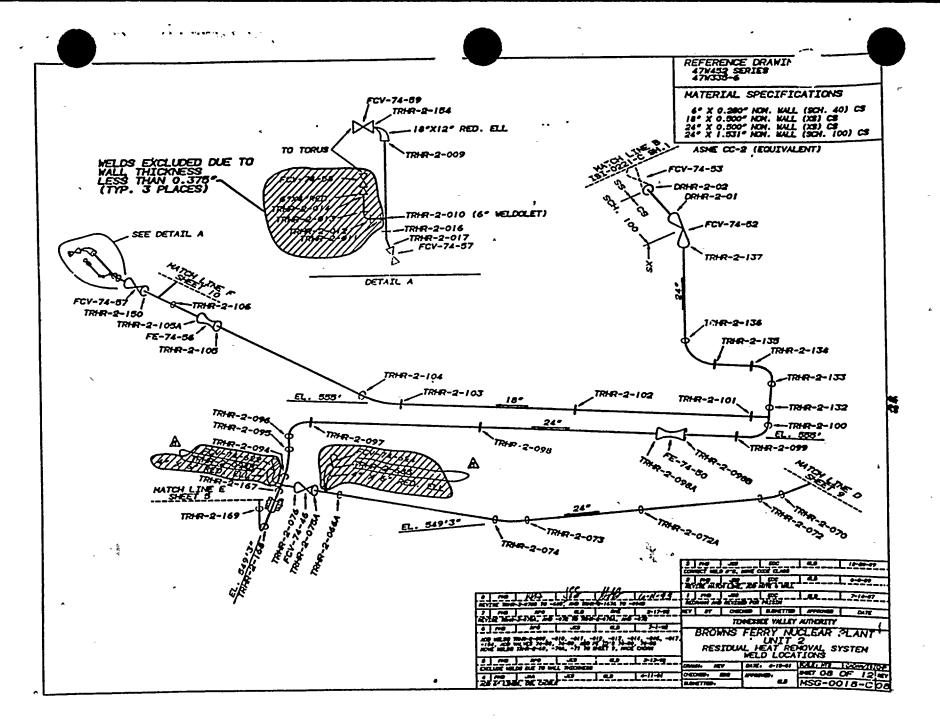
• ·

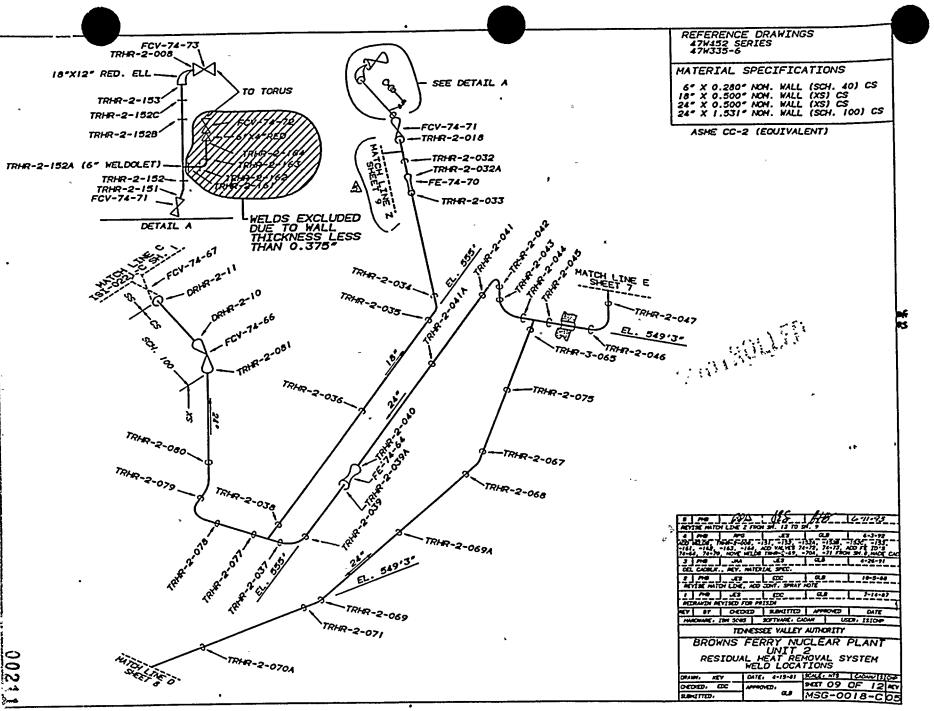
.

· · ·

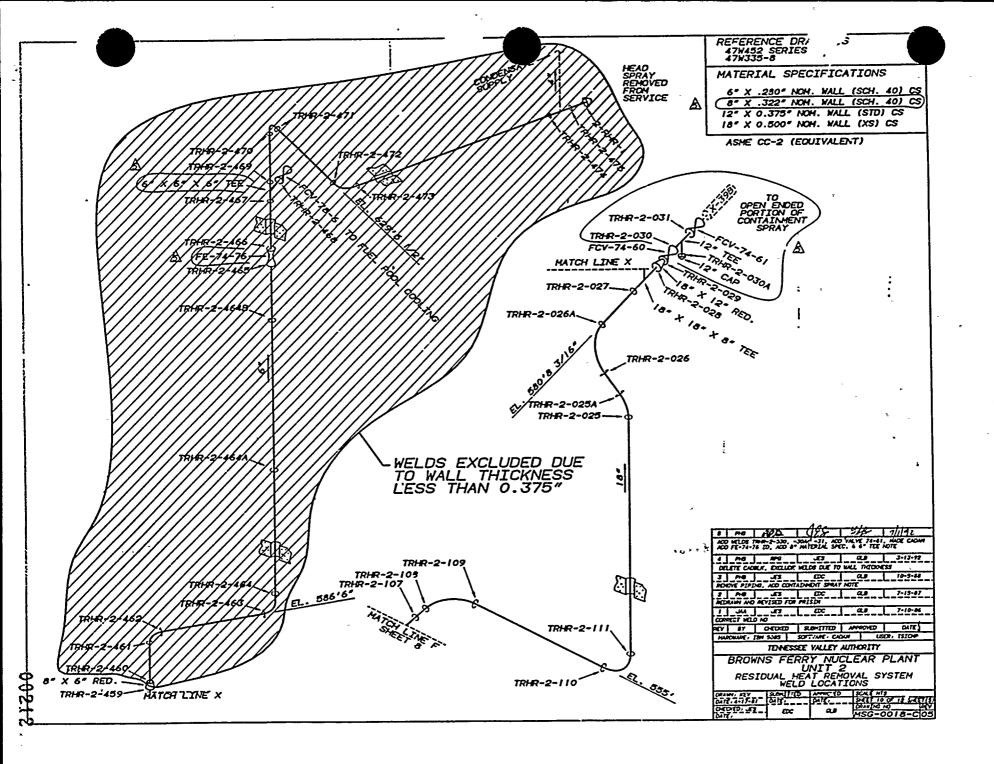
,

₩ af v



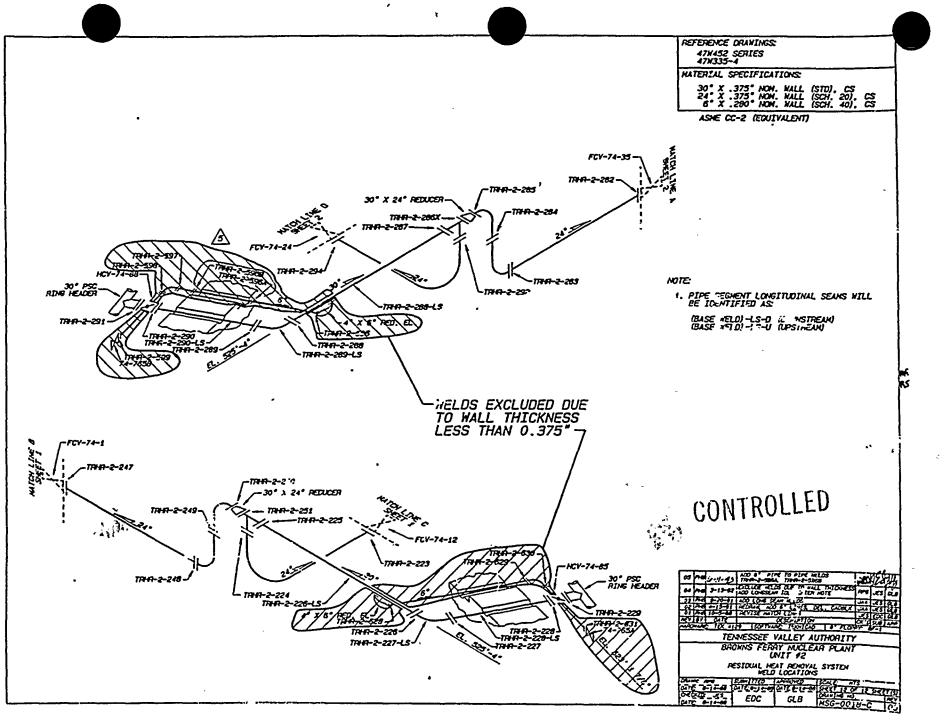


x .



.

- · · · ·



 \mathbf{Q} 02

iii cù

•

,

f

. . .

, a

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

APPENDIX VI

SUMMARY OF INDICATIONS

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Summary of Indications

Indications detected during the performance of examinations for Browns Ferry Nuclear Plant Unit 2/Cycle 8 were evaluated in accordance with approved written procedures. Generally, examination results yielded either No Recordable Indications (NRI) or Recordable Indications.

Recordable Indications were evaluated to determine their origin. Indications determined to be of a geometric, metallurgical, or similar origin were typically dispositioned as non-relevant. Indications determined to be of a non-geometric, non-metallurgical, or similar origin were typically dispositioned as relevant. Such indications required additional measures such as further evaluation in accordance with ASME Section XI acceptance standards, engineering analysis, repair, or replacement.

The following list is a summary of indications detected and their disposition during the Unit 2/Cycle 8 outage.

ADDITIONAL SAMPLES

This appendix also provides a list of additional samples of components, where applicable.

•

• • •

. . .

, , , ,

ų

INSPECTION REPORT NO.	CODE CATEGORY	COMPONENT IDENTIFICATION	INDICATION DESCRIPTION	RESOLUTION	ADDITIONAL SAMPLING
BFNU9500342	F-A	2-47B452R0054	Loose jam nut	Tightened nut - Report # R0258	No- Not load bearing component
BFNU9500343	F-A	2-47B452H0088	Incorrect support settings	Accept-as-is	Yes - 2-478452-H0038, 2-478452R0035, 2- 478452H0090, 2-478455H0091, 2-478452H0038, 2-478452H0084, 2-478452S0218, 2- 478452H0097, 2-478452H0083
BFNU9500343	F-A	2-47B452H0089	Incorrect support settings	Accept-as-is	Yes - 2-478452-H0038, 2-478452R0035, 2- 478452H0090, 2-478455H0091, 2-478452H0038, 2-478452H0084, 2-478452S0218, 2- 478452H0097, 2-478452H0083
BFNU9500344	C-C	2-47B452H0067-IA	Linear MT Indication	Remove Indication by butfing - Report # R0320	No - Fabrication Induced cosmetic Indication
BFNU9600001	F-A	2-478452H0091	Incorrect support settings	Accept-as-is	No additional sampling required
BFNU9600002	F•A	2-478455H0062	Incorrect support settings	Accept-as-is	No additional sampling required
BFNU9600003	F•A	2-47B455H0059	Incorrect support settings	Accept-as-is, Report # R0162	No additional sampling required
BFNU9600003	F•A	2-478455H0060	Incorrect support settings	Accept-as-is, Report # R0163	No additional sampling required
BFNU9600004	F-A	RHRG-2-12-A	Loose bolting	Tighten bolt - Report # R0272	Yes - 2-47B452H0120, 2-47B452H0056, RHRG-2- 12-C, RHRG-2-13-C, RHRG-2-14-C
BFNU9600004	F-A	RHRG-2-13-A	Loose bolting	Tighten bolt - Report # R0274	Yes - 2-47B452H0120, 2-47B452H0056, RHRG-2- 12-C, RHRG-2-13-C, RHRG-2-14-C
BFNU9600005	F-A	RHRG-2-12-C	Loose bolting	Tighten bolt - Report # R0273	Yes - RHRG-2-12-B, RHRG-2-13-B, RHRG-2-14- B, RHRG-2-12-D, RHRG-2-13-D, RHRG-2-14-D
BFNU9600012	F•A	RHRG-2-14D	Loose bolling	Tighten bolt - Report # R0310	No - Similar design, type and function supports inspected
BFNU9600058	B-M-2	2-FCV-1-37	Scoring on guide surfaces on valve ID	Accept-as-is	No additional sampling required

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

4

..

•_

\$

...

TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

UNIT:

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

--,

INSPECTION	CODE	COMPONENT	INDICATION	RESOLUTION	ADDITIONAL
REPORT NO.	CATEGORY	IDENTIFICATION	DESCRIPTION		SAMPLING
BFNU9600060	F-A	2-47840050014	Incorrect support settings	Accept-as-is	No additional sampling required
BFNU9600060	F-A	2-47840050201	Incorrect support settings	Accept-as-is	No additional sampling required
BFNU9600060	F•A	2-478408S0068-IE	Incorrect support settings	Accept-as-is	No additional sampling required
BFNU9600060	F-A	2-478408S0069-IE	Incorrect support settings	Accept-as-is	No additional sampling required
BFNU9600077	ଞ୍ଚ	KR-2-38	Previous recorded linear indications	Accept-as-is	No additional sampling required
BFNU9600077	NUREG 0313	KR-2-37	Previous recorded linear indications	Accept-as-is	No additional sampling required
BFNU9600077	NUREG 0313	KR-2-41	Previous recorded linear indications	Accept-as-is	No additional sampling required
BFNU9600077	NUREG 0313	KR-2-14	Previous recorded linear indications	Accept-as-is	No additional sampling required
BFNU9600078	RPV	RPV Shroud welds	New and previously recorded linear indications	Accept-as-Is	No additional sampling required
BFNU9600085	B-N-1	Core Spray Nozzle 3B @ 270* az	Cracked tack on lower 3B nozzle	Accept-as-is	No additional sampling required
BFNU9600089	B-N-1	Feedwater N-4B thermal sleeve @ 90* az	Bent bottom radius on thermal sleeve	Accept-as-Is	No additional sampling required
BFNU9700025	F-A	2-47B455H0048	Incorrect support settings	Accept-as-Is	No additional sampling required

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

....

4

•

٠

Š

.

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

00217

.

,

OWNER: TENNESSEE VALLEY AUTHORITYPLANT: BROWNS FERRY NUCLEAR PLANTOFFICE OF NUCLEAR POWERP.O. BOX 20001101 MARKET STREETDECATUR, ALABAMA 35602CHATTANOOGA, TENNESSEE 37402CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

ATTACHMENT 1

UNIT 2 CYCLE 8 AUGMENTED EXAMINATION SUMMARY

OWNER: TENNESSEE VALLEY AUTHORITY
OFFICE OF NUCLEAR POWER
1101 MARKET STREETPLANT: BROWNS FERRY NUCLEAR PLANT
P.O. BOX 2000DECATUR, ALABAMA 35602CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

This section includes augmented examinations performed to comply with NRC or TVA selfimposed requirements. Typical sources include generic letters, IE Bulletins, technical specifications, vendor recommendations, and industry experience. The following summarizes the augmented examinations performed during the Unit 2 Cycle 8 outage and references the corresponding paragraph in 2-SI-4.6.G.

Paragraph 7.12.8 Augmented Examination of Austenitic Stainless Steel and Dissimilar Metal Welds Susceptible to IGSCC (Generic Letter 88-01 and NUREG-0313, Revision 2)

Austenitic stainless steel and dissimilar metal circumferential welds in piping four inches or larger in nominal pipe diameter which contain reactor coolant at temperatures above 200 degrees F during power operation shall be examined.

Reference: Generic Letter 88-01 and NUREG-0313, rev.2

NUREG-0313 CATEGORY	TOTAL NUMBER OF WELDS	WELDS EXAMINED DURING U2/C8 Outage
Α	42 .	1
В	N/A	N/A
С	120	2
D	7	4
E	16	9
F	N/A	N/A
G	2	2 (VT-2)

Examination Results:

No new IGSCC flaws were detected. Previosly detected flaws were sized and comparisons were made with data taken during prior cycles, which indicated no signs of increase length propagation or thru-wall growth.

·

. . .

.

ь. -

.

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 OWNER: TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Paragraph 7.12.11.1 Core Spray Spargers and Piping

The augmented examination requirements for the core spray spargers and piping are contained in the plant Surveillance Instruction MSI-0-001-INS001, which implements IE Bulletin 80-13. The spargers are required to be visually examined each refueling outage. The examination of the core spray spargers and piping was performed during the Unit 2, Cycle 8 outage.

Reference: IE Bulletin 80-13 and SIL-289

Examination Results:

1.0 Core Spray Sparger "B"

During visual inspections of the "B" core spray sparger, a small crack was observed in the lower

tack weld of the nozzle to the sparger in nozzle 3B. The remaining tack weld is acceptable, and no other linear indications were observed in any other spray nozzle welds. The indication was evaluated by Site Engineering under I.R. BFN U 9600085 for continued operation.

2.0 Debris (possible string) was observed while inspecting the "B" core spray sparger in nozzle 6B. BF PER 960404 addressed this condition.

Paragraph 7.12.11.5 Core Spray T-Box Welds SIL-289

A visual examination of Core Spray T-Box to front cover plate weld and the Core Spray T-Box to thermal sleeve weld was performed in conjunction with the NRC IE Bulletin 80-13 examination of the Core Spray Sparger.

Reference: IE Bulletin 80-13, and G.E. Services Information Letter (SIL) SIL-289

Examination Results: No indications of cracking observed.

• . . ۲ پ ۰ a . .

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Paragraph 7.12.11.2 Core Support Shroud SIL-572

An ultrasonic examination of the Core Support Shroud was performed per the requirements of G.E. SIL-572. TVA submitted a report to the U.S. Nuclear Regulatory Commission, Reference: Browns Ferry Nuclear Plant (BFN)- Unit 2 - Results Of Core Shroud Reinspection And In-Vessel Visual Inspections Conducted During The Cycle 8 Refueling Outage, Docket No. 50-260.

Reference: G.E. SIL-572

Examination Results:

The above submittal contains detailed inspection results and analysis. This document should be consulted for specific inspection results. Indications were evaluated by Site Engineering, and are acceptable for continued service.

Paragraph 7.12.11.3 Shroud Support Access Hole Covers SIL-462

An ultrasonic examination of the shroud support access hole cover welds was performed in accordance with SIL-462. Access hole covers at locations 0 and 180 degrees were examined with the General Electric "SMART 2000" System. A 45 degree shear wave and a 60 degree refracted longitudinal wave search units were utilized from the manway access hole cover side of the weld. A 60 degree refracted longitudinal wave search unit was utilized from the shroud ledge side of the weld.

Reference: SIL-462

Examination Results:

No indications of IGSCC.

OWNER: TENNESSEE VALLEY AUTHORITY
OFFICE OF NUCLEAR POWER
1101 MARKET STREETPLANT: BROWNS FERRY NUCLEAR PLANT
P.O. BOX 2000
DECATUR, ALABAMA 35602CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Paragraph 7.12.11.7 Jet Pump Sensing Line SIL-420

A visual examination of the Jet Pump Sensing Lines per recommendations of SIL-420 was performed during the cycle 8 outage.

Reference: SIL-420

Examination Results: No damage or indications of cracking observed.



Paragraph 7.12.11.8 Jet Pump Throats SIL-465

A visual examination of the Jet Pump Throats per recommendations of SIL-465 was performed during the cycle 8 outage. Two (2) Jet Pump assemblies were examined, Jet Pumps 11 and 12.

Reference: SIL-465

Examination Results:

The throat area of Jet Pumps #11 and #12 was examined for excess build-up in the inlet mixer, with no oxide build-up observed. Oxide build-up was observed on the jet pump mixer inlet lip. Site Engineering determined the amount of build-up will not interfere with operation or function of the pumps.

Paragraph 7.12.11.9 Jet Pump Riser Braces SIL-551

A visual examination of the Riser Braces 11-20 per the recommendations of SIL- 551 was performed during the Unit 2, Cycle 8 outage.

Reference: SIL-551

Examination Results The Jet Pump Riser Braces contained no indications.

4 ---

• •

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT

 OFFICE OF NUCLEAR POWER
 P.O. BOX 2000

 1101 MARKET STREET
 DECATUR, ALABAMA 35602

 CHATTANOOGA, TENNESSEE 37402
 UNIT:

 UNIT:
 TWO

 CERTIFICATE OF AUTHORIZATION:
 NOT REQUIRED.

 COMMERCIAL SERVICE DATE:
 MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Paragraph 7.12.11.10 Jet Pump Adjusting Screws SIL-574

A visual examination of Jet Pumps 1-20 Adjusting Screws per recommendations of SIL-574 was performed.

Reference: SIL-574

Examination Results:

Very small linear indications were observed on three Jet Pump restrainer set screw tack welds on Jet Pumps #1, #11, and #12. The indications have not changed since the Unit 2 Cycle 7 examination performed in 1994.



Paragraph 7.12.11.11 Top Guide SIL-554

Accessible sections of the Top Guide were visually examined of the per the recommendations of SIL-544.

Reference: SIL-544

Examination Results: No cracking or damage observed.

Paragraph 7.12.7 Feedwater Spargers

Accessible sections of the Feedwater Spargers to be visually examined per plant Surveillance Instruction MSI-0-001-INS001 which implements NUREG-0619 requirements.

Reference: NUREG-0619

Examination Results:

- 1) The thermal sleeve on the 90 degree feedwater sparger (bottom portion) is slightly bent. This condition was evaluated by Site Engineering on I.R. BFN U 9600089 and found acceptable for continued use.
- 2) The 210 degree feedwater sparger has a bent nozzle, and was reported and evaluated in the Unit 2 Cycle 7 outage. There was no change observed from the prior data.

.

۰. ۲

•

. . .

•

.

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Paragraph 7.12.2 RPV Cladding Indication

An indication in the RPV cladding was discovered in August 1988 during the RPV interior examination. It is located at 15 degree azimuth, 32 3/4" below the RPV flange surface. The indication shall receive a VT-1 examination in refueling cycle 8 to determine if there is any degradation or change from prior cycles (5,6, and 7).

Reference: None

Examination Results: No growth or change observed from Unit 2 cycles 5, 6, or 7.



.

١

•

ı. I

Ţ

. .

.

.

OWNER: TENNESSEE VALLEY AUTHORITYPLANT: BROWNS FERRY NUCLEAR PLANTOFFICE OF NUCLEAR POWERP.O. BOX 20001101 MARKET STREETDECATUR, ALABAMA 35602CHATTANOOGA, TENNESSEE 37402DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

<u>UNIT 2/CYCLE 8</u> <u>ISI REPORT OF AUGMENTED</u> <u>EXAMINATIONS</u>

NUTECH		******	BROWNS POST OU EXAM RE	TAGE EXAMI QUIREMENT ERVAL : 02	EAR POW DATA B NATION : B01-0 P	ER PLAN ASE RESULTS 2 CY ERIOD :	T - UNIT : REPORT CLE : 08		_	*****	PRISI ********** * PAGE * REVISIO * DATE (* * 1 * N 0000 * 5/09/96 *
R 57 27 14	SYSTEM ISOMETRIC N	UMBER :	•	HEET : CO			NR BOILER			******	*****	* * *
FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/	EXAMINATION REPORT NO.	CAL.	CAL. SID.	EXAN	EXAM DATE	EXAH RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	RESOLUTION
FUNZSPARGERS	SPARGER	RPV INT	R00000337			VT-3	19960410		NO	-		
****************	*********	*******	********	*******	******	******	*******	******	******	******	*********	********
~		-		-								
	•					٠						
					10							- r
											-	-
•		•					16					
-				-			-					
32.20 0			-									
n N										_		

.

OWNER: TEKNESSEE VALLEY AUTHORITY "PLAVT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP 1101 MARKET STREEF CHATTANOOGA TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REOUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 MATIONAL BOARD NUMBER FOR UNIT: NOT REOUIRED

\$

.

L

:

.

•

.

.

* NUTECH				TENNESSEE Y				2			PRISI	н
*				ISI	DATA B	ASE		-				**********
*				ITAGE EXAMII							* PAGE	1
*				ERVAL : 02		ERIOD :					* REVISI	ON 0000
*											* DATE	05/09/96
************************	***********					*						
* .	SYSTEM	: (CRDS CONTRO	L ROD DRIV	SYSTEI	H - 085						
•	LOOUETOLO IN		01 0373-0 0	11FFT - 01								
-	ISOMETRIC M	JH8EK : I	121-02/2-0 3	SHEEL : UL								
-		M82K :	151-0272-C 3	HECI : UI	******	******	*******	******	******	*******	**********	*******
- • •	150METRIC N	M82K :		*******	*****	******	*******	******	******	******	**********	******
•	COMPONENT	CATGORY/	EXAMINATION	i CAL.		EXAN	EXAM	EXAM			INDICATION	INDICATIO
FEATURE NUMBER	******	CATGORY/	*******	i CAL.		EXAM TYPE	EXAM DATE	EXAM RESULT			INDICATION TYPE	INDICATIO RESOLUTIO
FEATURE NUMBER	COMPONENT	CATGORY/	EXAMINATION	i CAL.								
FEATURE NUMBER	COMPONENT	CATGORY/ ITEN NO.	EXAMINATION REPORT NO.	i CAL.	STD.	TYPE		RESULT				
****************	COMPONENT DESCRIPT.	CATGORY/ ITEM NO. ======= D NU0313	EXAMINATION REPORT NO.	CO0000086	STD. ===== BF-29 BF-29	TYPE ====== UT-45 UT-45L	DATE	RESULT	CREDIT		TYPE	RESOLUTIO

UNIT: TWO CERTIFICATE: COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REDUIRED OWNER. TERRIESCE: VALLEY AUTIORITY NUCLEAR PEWER GROUP THOI MARKET STREET CHATTAWOOGA, TENNESSEE 37402 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: BROWAS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

\$

۰.

٠

r

ø

.

•

.

-

∵. **•** •

*

,

* NUTECH * * *			BROWNS POST OU EXAM RE	TENNESSEE N FERRY NUCLE ISI ITAGE EXAMIN GUIREMENT FERVAL : 02	EAR POWE DATA BA ATION F B02-02	ER PLANT ASE RESULTS	r - UNIT 2 REPORT	2	•••••	****	PRISI ********* * PAGE * REVISIO * DATE (2 DN 0000
	SYSTEM ISOMETRIC M		CSS CORE S ISI-0271-C S		4 - 075		*******	******	*****	******	***********	*****
	۰	CATCORY	EXAMINATIO	CAL.	CAL.	EXAM	EXAM	EXAM	SEC XI	RELIEF	INDICATION	INDICATIO
FEATURE NUMBER	COMPONENT DESCRIPT.		REPORT NO.			TYPE	DATE ======	RESULT	CREDIT	REQST.	TYPE	RESOLUTIO
FEATURE NUNBER	DESCRIPT.	ITEM NO.	REPORT NO.		STD.	TYPE			CREDIT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	REQST.	GEOMETRIC	NON-RELEVA
	DESCRIPT.	ITEN NO.	REPORT NO.	REPORT NO.	STD. ====== BF-79	TYPE ===== UT-45	====== 19960328	PASS	******	REQST.		

WITT: TTT MALE OF AUTHORITY PLANT: BROWNS FERRY RUCLEAR FLANT 100 ALARA GOMEST FERRY CHATTANOGGA TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

1

,ª

..

*******		*********	*********							7		
NUTECH				TENNESSEE \							PRISI	1
•			BROWNS	FERRY NUCLE			- UNIT 6	2				
,					DATA B		DEDOOT				********	********
				DTAGE EXAMIN			LE : 08				* PAGE	3
				ERVAL : 02		ERIOD :					* REVISIO	-
			141	ERVAL : UZ	r.	. 00.	6				* DATE (
**************	*********	*******	*********	*********	******	*******	*******	******	******	*****	********	********
,												
	SYSTEM	: 1	RECIR REACTO	OR WATER RE	CIRCULA	TING SYS	TEM - 068	3				
	ISOMETRIC NU											
**************	********	*******	*********	********	******	*******	*******	******	******	******	***********	*********
	CONPONENT	CATGORY/	EXAMINATIO	CAL.	CAL.	EXAM	EXAN	EXAN	SEC XI	RELIEF	INDICATION	INDICATIO
EATURE NUMBER			REPORT NO.			TYPE	DATE	RESULT	CREDIT	REQST.	TYPE	RESOLUTIO
						******		272373	ZZZZZ #	*****		*********
R-2-15(OL)	OVERLAY	E	R00000283	C00000093			19960330		NO		INCLUSION	EVALUATED
		NU0313	R00000283	C00000094	8F-50	UT-70L	19960330	PASS	NO			
R-2-14	PIPE	E	R00000300	C00000114	SIZRIK	UT-S17	19960331	PASS	ко			
N-E-14	-BR CONN		R00000300	C00000115					NO		PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED
			R00000300	C00000116	SIZBLK	UT-SIZ	19960331	ENGR	NO		PREV IGSCC	EVALUATED
											GEOMETRIC	NON-RELEV
											GEOMETRIC	NON-RELEV
			R00000300	C00000117	SIZBLK	UT-SIZ	19960331	ENGR	NO		PREV IGSCC	EVALUATED
		-									PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED
			R00000300	C00000119	SIZBLK	UT-SIZ	19960402	ENGR	NO		PREV IGSCC	EVALUATED
			R00000300				19960402		NO		PREV IGSCC	EVALUATED
			R00000300	C00000121			19960402		NO		PREV IGSCC	EVALUATED
			R00000300	C00000112	BF-88	UT-45	19960330	ENGR	NO		PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED
			R00000300	C00000118					NO		PREV IGSCC	EVALUATED
			R00000300	C00000113	BF-88	UT-60L	19960330	PASS	NO			

 OWNER:
 TERMESSEE VALLEY AUTHORITY
 PLANT:
 BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POYTER GROUP
 P.O. BOX 2000

 1101
 MARKET STREET
 DECATUR, ALABAMA 35602

 1101
 MARKET STREET
 ST402

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

\$

...

4

..

.

•

00229

•

¥

							*********				PRISI	
NUTECH		,		TENNESSEE N FERRY NUCLE				,			PRISH	•
			BRUWNS		DATA B		- 0411 4	-				
			POST OL	JTAGE EXAMIN			REPORT				******	*******
				QUIREMENT			CLE : 08				* PAGE	4
			INT	ERVAL : 02	P	ERIOD :	2	-			* REVISIO	
				********							* DATE	05/09/96
		********	**********		******		********			-		
	SYSTEM	: 1	RECIR REACTO	OR WATER REG	CIRCULA	TING SYS	STEN - 068	8				
			ISI-0270-C S									

***************	***********	********	*********		*******	*******	********	******	*******	*****		
			EXAMINATION			EXAN	EXAN	EXAN			INDICATION	INDICATION
EATURE NUMBER			REPORT NO.				DATE		CREDIT		TYPE	RESOLUTION
*********************	**********	********	*=====	35533555553	******		********	222323	22233			***********
R-2-64(OL)	OVERLAY T	ε	R00000217	c00000058	BF-83	UT-60L	19960326	PASS	NO			
	••••••		R00000217						NO			
		-					100/0720	ENOD				
R-2-36	PIPE	E	R00000311 R00000311						NO NO		DREV LCCCC	EVALUATED O
	-BK CONN	21 5008	KUUUUU511	00000129	SIZBLK	01-212	19900329	ENGK	AU		PREV IGSCC PREV IGSCC	EVALUATED,O EVALUATED,O
							-				PREV IGSCC	EVALUATED,0
											PREV IGSCC	EVALUATED.0
			R00000311	C00000130	SIZBLK	UT-SIZ	19960328	ENGR	NO		PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED.O
											PREV IGSCC	EVALUATED, O
			R00000311	C00000132	SIZBLK	UT-SIZ	19960402	ENGR	NO		PREV IGSCC	EVALUATED, O
					•						PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED,0
											PREV IGSCC	EVALUATED,0
											PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED,0
		2	R00000311	C00000133	SIZBLK	UT-SIZ	19960402	ENGR	NO		PREV IGSCC	EVALUATED,O
											PREV IGSCC	EVALUATED,0
											PREV IGSCC	EVALUATED,0
						•					PREV IGSCC PREV IGSCC	EVALUATED,O EVALUATED,O
											PREV IGSCC	EVALUATED,0
			R00000311	C00000134	SIZBIK	ut-s17	19960402	ENGR	NO		PREV IGSCC	EVALUATED,O
			R00000311						NO		PREV IGSCC	EVALUATED.0
											PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED;0
					-						PREY IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED.O

 OWNER:
 TENNESSE VALLEY AUTHORITY
 PLANT:
 BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 P.O. BDX 2000

 1101 MARKET STREET
 DECATUR, ALABAMA 33602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 NARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

00230

\$

NUTECH			***********	TENNESSEE		AUTHOPTI	Y					PRISIN	
			BROWNS	FERRY NUCLI				2	_		•		
•			•		DATA B			-					
•			POST OL	JTAGE EXAMI	NATION P	RESULTS	REPORT				***	*****	********
•			EXAN RE	OUIREMENT	: B02-02	2 CYC	CLE : 08				* P/		5
•			INT	ERVAL : 02	PE	ERICO :	2						O000 N
•											* D/	ATE C	5/09/96
********************	*********	********	**********	********	******		********	*******		******	********		
	CVCTEN		RECIR REACTO				-						
	SYSTEM		ISI-0270-C		LIKLULA	1186 513		2					
*	ISONCIRIC A	UNDER :	151-0270-0	SACCI : VC									
*************	********	*******	********	*******	******	******	*******	******	******	*****	*******	*****	********
									650 VI				
			EXAMINATION REPORT NO.		CAL.		EXAM DATE		CREDIT		INDICA TYP		INDICATIO RESOLUTIO
FEATURE NUMBER													
KR-2-36	PIPE	E	R00000311	C00000126	8F-88	UT-45	19960329	ENGR	NO		PREV IG	SCC	EVALUATED,
	-BR CONN	NU0313									PREV IG	scc	EVALUATED,
											PREV IG	SCC	EVALUATED,
											PREV IG		EVALUATED,
			R00000311	C00000131	8F-57	UT-45	19960403	ENGR	NO		PREV IG		EVALUATED,
		-									PREV IG		EVALUATED,
											PREV IG		EVALUATED,
											PREV IG		EVALUATED,
											PREV IG		EVALUATED,
											PREV IG		EVALUATED,
			R00000311	C00000125	85-88	01-60L	19960328	ENGR	NO		PREV IG		EVALUATED,
	8										PREV IG		EVALUATED,
											PREV IG		EVALUATED,
											PREV IG		EVALUATED, EVALUATED,
-			R00000311	C00000127	RE-88	117-601	10060320	ENCO	NO		PREV 1G		EVALUATED,
			RUUUUUUU	00000121	01-00	01-006	17700327	CHOK	NO		PREV IG		EVALUATED,
											PREV IG		EVALUATED,
-			-								PREV IG		EVALUATED,
(R-2-37	PIPE	E	R00000297						NO				
	-CAP	NU0313	R00000297						NO				
			R00000297	C00000105	SIZBLK	UT-SIZ	19960330	ENGR	NO		PREV IG		EVALUATED,
											PREV IG		EVALUATED,
											PREV IG		EVALUATED,
							400/0370				PREV IG		EVALUATED,
			R00000297	C00000106	SIZBLK	UT-SIZ	19960330	ENGR	KO		PREV IG		EVALUATED,
											PREV IG		EVALUATED,
-											PREV IG		EVALUATED,
			00000007	00000107		UT-0	19960330	ENCO.	110		PREV IG		EVALUATED,
			R00000297	CUUUUU103		01-0	144001210	C MILLER	NO		PREV IG	ろしし	EVALUATED,

з

OWNER: TENXESSEE WILLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR PERVER GROUP CHATTANOGA, TENEET CHATTANOGA, TENEESSEE 37432 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

4

....

.

.•

.

.

ود

-

3

00231

A

. .

J.

r` 4 ``, 7

NUTECH				TENNESSEE				_		PRISI	н
			BROWNS	FERRY NUCLI			r - UNIT :	2			
			0007 0	ISI UTAGE EXAMII	DATA B		050007			*******	**********
				EQUIREMENT			CLE : 08			* PAGE	6
				TERVAL : 02		R100 :				* REVISI * DATE	ON 0000
*****								D			
	SYSTEM ISOMETRIC N		RECIR REACTO			ING ST	SIER - 00	D		_	
*************	*********	********	*******	********	******	******	*******	******	******	*****	*******
EATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.	REPORT NO.	STD.	EXAM TYPE	DATE		CREDIT REQST		RESOLUTION
*****************		*******	*******	**********	======	323233	*******	======	5 2223 3 72232		
R-2-37	PIPE	ε	R00000297	C00000101	8F-88	UT-45	19960330	PASS	NO	GEOMETRIC	NON-RELEVAN
	-CAP	NU0313			•••••					GEOMETRIC	NON-RELEVAN
	••••									GEOMETRIC	NON-RELEVAN
										GEOMETRIC	NON-RELEVAN
										GEOMETRIC	NON-RELEVAN
										GEOMETRIC	NON-RELEVAN
			R00000297	C00000102	BF-88	UT-60L	19960330	PASS	NO		
R-2-41	PIPE	E	R00000298	C00000109		UT-SIZ	19960328	PASS	NO		
	-BR CONN	NU0313	R00000298	C00000110	SIZBLK	UT-SIZ	19960328	ENGR	NO	PREV IGSCC	EVALUATED,C
										PREV IGSCC	EVALUATED,
			R00000298	C00000111	SIZBLK	UT-SIZ	19960328	ENGR	NO	PREV IGSCC	EVALUATED,C
										PREV IGSCC	EVALUATED,C
										PREV IGSCC	EVALUATED,
										PREV IGSCC	EVALUATED,
										PREV IGSCC	EVALUATED,
										PREV IGSCC	EVALUATED,
			KUUUUU298	C00000107	81-88	01-45	19900326	ENGR	NO	PREV IGSCC	EVALUATED,C
										PREV IGSCC	EVALUATED,C
										PREV IGSCC PREV IGSCC	EVALUATED,C EVALUATED,C
										PREV IGSCC	EVALUATED,C
						•				PREV IGSCC	EVALUATED,C
			R00000298	C00000108	8F-88	UT-60L	19960326	ENGR	NO	PREV IGSCC	EVALUATED,C
	**********				******	******	********	******	**********	***********	***********

-

 OWNER:
 TEHNESSEE VALLEY AUTHORITY
 PLANT:
 BROWNS FERRY NUCLEAR PLANT

 NUCLEAR POWER CROUP
 PO. BXX 2000

 100 MARRIET STREET
 DECATUR, ALABANA 35502

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

ś

•

.

۲

4

..

NUTECH				TENNESSEE V FERRY NUCLI		ER PLANT		!			PRISI	1
			EXAM RE	DTAGE EXAMI COUREMENT CERVAL : 02	NATION : B02-0	RESULTS	LE : 08	*****	******	******	* PAGE * REVISIO * DATE (
	SYSTEM ISOMETRIC NU		RHRS RESIDU		MOVAL S	YSTEM -	074	*****	******	******	*****	
FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.			EXAN TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
DRHR-2-03	VALVE -PIPE	D NUREG	R00000182 R00000182 R00000182	C00000043 C00000044 C00000045	BF-89	UT-45L	19960320 19960320 19960320	PASS	YES YES YES		GEOMETRIC	NON-RELEVAN
	PIPE -PENPIPE	G NU0313	R00000339			VT-2	19960420	PASS	NO			
DRHR-2-03B												

 WHXER: IEINESSEE WALLEY AUTHORITY
 PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP

 IOD MARRET STREET
 D.C. BOX 2000

 IOD MARRET STREET
 DECATUR, ALABAMA 33602

 UNIT:
 TWO

 CUMMERICAL SERVICE DATE:
 NARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

\$

....

- 2

۵ ۲ .

-

.

.

н

NUTECH		BROWNS POST OU EXAM RE	TENNESSEE N FERRY NUCLI ISI ITAGE EXANII QUIREMENT ERVAL : 02	EAR POWE DATA BANATION F B02-02	ER PLANT ASE RESULTS	- UNIT 2 REPORT CLE : 08	2		•	PRISI * PAGE * REVISIO * DATE	8 0N 0000
	SYSTEM ISOMETRIC NU	RHRS RESIDU		HOVAL SI	rstem -	074					
FEATURE NUMBER	COMPONENT DESCRIPT.	EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
FEATURE NUMBER		REPORT NO.	REPORT NO.	STD. ====== BF-102 BF-102 BF-102	TYPE ====== UT-45 UT-45 UT-45L	DATE	RESULT TRESULT PASS PASS PASS	-	REQST.		

•

.

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERSY MUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOOGA, TENNESSEE 37402 UNIT: TV/O COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

•

.

•

.

•

.

æ

.

.

NUTECH			BROWNS Post ou Exam re	TENNESSEE V FERRY NUCLE ISI ITAGE EXAMIN OUIREMENT : ERVAL : 02	EAR POWE DATA BANATION F B02-02	R PLANT SE Sesults 2 Cyc	- UNIT 2 REPORT LE : 08	:			PRISI ********* * PAGE * REVISIO * DATE (9 9 M 0000
	SYSTEM ISOMETRIC N		RPV REACTO		VESSEL	(NUCLEA	R BOILER:) - 068	******	******	*****	
FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.			EXAM TYPE	EXAN DATE	EXAN RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
RCRD-2-33	NOZZLE -CAP	D NU0313	R00000221 R00000221 R00000221 R00000221 R00000221 R00000221	C00000065 C00000067 C00000066 C00000068 C00000069 C00000069	BF-60 BF-76 BF-60	UT-45 UT-45L UT-45L UT-45L	19960325 19960325 19960325 19960325 19960327 19960327	PASS PASS PASS PASS	NO NO NO NO NO		GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC	NON-RELEVAN NON-RELEVAN NON-RELEVAN NON-RELEVAN

.

•

UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 RATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP TIOI MARKET SERVIP CHATTANOOGA TENNESSEE 37402 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BDX 2000 DECATUR, ALABAMA 35602

- \$

jî.

.

.' ъ

00235

=

* NUTECH		-		TENNESSEE	EAR POW	R PLANT		2			PRISI	H
			EXAM RE	ITAGE EXAMI OUIREMENT ERVAL : 02	: B02-0	RESULTS	CLE : 08			*	* PAGE * REVISION * DATE	
	SYSTEM ISOMETRIC NU		RPV REACTO		VESSEL	(NUCLE/	AR BOILER) - 068	******	-	******	********
*************	*********	*******	*********	*****	******	******	********	*******	******	******	******	********
EATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
EATURE NUMBER		ITEM NO.	REPORT NO.	REPORT NO.	STD. ====== BF-59 BF-76	TYPE ====== UT-45 UT-45		RESULT		REQST.		

+

OWHER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP CHATTANOGGA, TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT RECUIRED

\$

•

NUTECH			BROWNS		EAR POW	ER PLANT ASE	- UNIT 2	2			PRISI	1
	••••••		EXAM RE	ITAGE EXAMI QUIREMENT ERVAL : 02	: B02-0		LE : 08	******	*****	******	* PAGE * REVISIO * DATE (
	SYSTEM ISOMETRIC NU		RUCUS REACTO		EANUP S	YSTEM -	069					
*************	*******	*******	*********	*******	******	******	*******	******	*****	******	*******	********
EATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.			EXAH TYPE	EXAM DATE		SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATI RESOLUTI
TATURE NUMBER	DESCRIPT.		REPORT NO.		STD. ====== BF-80	TYPE TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT		RESULT				
**************	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD. ====== BF-80 BF-80 BF-80	TYPE TTTCRP UT-CRP UT-60L UT-CRP	DATE	RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT RESULT	CREDIT			

OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP TIOL MAKEN STREET UNIT: TVO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

£

\$

.

1

.

.

÷

· · · · ·

Ч**1** -

,

3 .

NUTECH		•		TENNESSEE FERRY NUCL ISI		ER PLANT		2			, PRISIN	1
•			EXAM RE	TAGE EXAMI QUIREMENT ERVAL : 02	: B03-02		LE : 08				* PAGE * REVISIO * DATE (
	SYSTEM ISOMETRIC M		PV REACTO HM-2046-C S		VESSEL	(NUCLEA	R BOILER) - 068	******	*****	*****	****
FEATURE NUMBER			EXAMINATION REPORT NO.		CAL. STD.	EXAN TYPE	EXAM DATE		SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
N5A-SPARGER	SPARGER	B-N-1 IE8013	R00000337			VT-1	19960409	PASS	NO	-	-	
15B-SPARGER	SPARGER	B-N-1	R00000337			VT-1	19960409	PASS	NO			

•

2

OWNER: TERMESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY HUCLEAR PLANT HUCLEAR POYMER GROUP DIO SAMMET STREET CATUR, ALABAMA 33602 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD HUMBER FOR UNIT: NOT REQUIRED

\$

<u>, -</u>

.

ø

s.

.

•

Ľ

.

.

NUTECH			**********	TENNESSEE \							PRISI	1
NULEUN				FERRY NUCLE				,			1.1.1.1	
			DROWAG		DATA B			-				
			POST OU	TAGE EXAMI			REPORT				*******	********
			EXAN RE	QUIREMENT	B06-02	2 CYC	LE : 08				* PAGE	1 1
			INT	ERVAL : 02		ERIOD :					* REVISIO * DATE (
***************	**********	********	*********	*********	******	******						1
	SYSTEM	: 1	RPV REACTO	R PRESSURE	VESSEL	(NUCLE/	R BOILER	9 - 068				•
	ISOMETRIC N	UMBER : I	N/A S	HEET : 00								1
*************	*********	********	**********	*********	******	*******	********	*******	******	*******		**********
ATURE NUMBER	DESCRIPT.	ITEM NO.	EXAMINATION REPORT NO.	REPORT NO.		EXAM TYPE	EXAN DATE		CREDIT	REQST.	INDICATION TYPE	INDICATION RESOLUTION
CHCOV-1	RPV SHR	RPV	R00000338				19960409		NO		GEOMETRIC	NON-RELEVAN
		INT	R00000338	C-AHC-002			19960409		NO		GEOMETRIC	NON-RELEVAN
			R00000337			VI-3	19960409	PASS	KO			
CHCOV-2	RPV SHR	RPV	R00000338	C-AHC-001		UT-45	19960409	PASS	NO		GEONETRIC	NON-RELEVAN
	ATT ONA	INT	R00000338				19960409		NO		GEOMETRIC	NON-RELEVAN
			R00000337				19960409		NO			
RESHR-2-H-1	RPV SHR	RPV	R00000338	C-S96-003	SHRD31	UT-CRP	19960325	PASS	ю		PREV IGSCC	EVALUATED, O
	-	INT									PREV IGSCC	EVALUATED,O
											GEOMETRIC	NON-RELEVAN
			R00000338	C-S96-001	SHRD31	UT-45	19960325	PASS	NO		PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED,O
											GEOMETRIC	NON-RELEVAN
			R00000338	C-S96-002	SHRD31	UT-60L	19960325	PASS	NO		PREV IGSCC	EVALUATED,O
											PREV IGSCC	EVALUATED, O
											GEOMETRIC	NON-RELEVAN
RESHR-2-H-2	RPV SHR	RPV	R00000338	C-596-006	SHRD31	UT-CRP	19960325	PASS	NO		PREV IGSCC	EVALUATED, O
		INT			- 11.0 0						PREV IGSCC	EVALUATED, O
											GEOMETRIC	NON-RELEVAN
			R00000338	C-S96-004	SHRD31	UT-45	19960325	PASS	NO		PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED, O
											GEOMETRIC	NON-RELEVAN
			R00000338	C-S96-005	SHRD31	UT-60L	19960325	PASS	NO		PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED,O
											GEOMETRIC	NON-RELEVAN
MECUD_3_11-7	DOU CUD	BDV	B00000770	0-006-000	CU0074	117-000	10060725	DACC	NO		DDEV 10000	EVALUATEN
DRESHR-2-H-3	RPV SHR	RPV INT	R00000338	r-230-003	SUKUSI	OI-CKP	17700325	rx22	NU		PREV IGSCC PREV IGSCC	EVALUATED;O
		141									PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED, O
											PREV IGSCC	EVALUATED.O
-											PREV IGSCC	EVALUATED, O

-

.

00239

OWNER: TEKNESSEE VALLEY AUTHORITY PLAN1: BOUTING 2009 HUCLEAS, POWER GROUP 1101 KARKET STREET CHATTANJOGA, TEMILESSEE 37402 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

ţ

•

.

.

4

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

.

NUTECH			*********	TENNESSEE			Υ					PRISI	(
			BROWNS	FERRY NUCLI			- UNIT 2	2					
					DATA B								
				JTAGE EXAMI							**	******	********
				QUIREMENT								PAGE	2
			IN	TERVAL : 02	Pl	ERIOD :	2						O000 N
											*	DATE)5/09/96
***************	**********	*********	**********		******						******		
	CVCTCH			OR PRESSURE	VECCEI			- 068					
	SYSTEM ISOMETRIC N			SHEET : 00	VESSEL	(NUCLE/	IN BUILEN,	/ = 000					
	ISUNCIKIC N		1/A 3	SALET : UU									
************	******	*******	*******	******	******	*******	*******	******	******	*****	******	*****	********
	CONPONENT	CATGORY	EXAMINATIO	CAL.	CAL.	EXAM	EXAM	EXAM	SEC XI	RELIEF	INDIC	ATION	INDICATI
EATURE NUMBER	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD.	TYPE			CREDIT			PE	RESOLUTI
			**********	2822232222	E23822			******	******	322223	EES223	******	225222525
RESHR-2-H-3	RPV SHR	RPV	R00000338	C-S96-007	SHRD31	UT-45	19960325	PASS	ю		PREV I	GSCC	EVALUATED
		INT									PREV I		EVALUATED
											PREV I	GSCC	EVALUATED
											PREV I		EVALUATED
											PREV I	GSCC	EVALUATED
											PREV I	GSCC	EVALUATED
			R00000338	C-S96-008	SHRD31	UT-60L	19960325	PASS	NO		PREV I	GSCC	EVALUATED
											PREV I	GSCC	EVALUATED
											PREV I	GSCC	EVALUATED
											PREV I		EVALUATED
											PREV I		EVALUATED
											PREV I	GSCC	EVALUATED
DRESHR-2-H-5	RPV SHR	RPV	R00000338	C-S96-012	SHRD31	UT-CRP	19960325	PASS	NO		PREV I	GSCC	EVALUATED
		INT									PREV I	GSCC	EVALUATED
											PREV I	GSCC	EVALUATED
											PREV I	GSCC	EVALUATED
											PREV I		EVALUATED
											PREV I		EVALUATED
			R00000338	C-S96-010	SHRD31	UT-45	19960325	PASS	NO		PREV 1		EVALUATED
											PREV I		EVALUATED
						•					PREV 1		EVALUATED
											PREV I		EVALUATED
											PREV I		EVALUATED
							400/0707				PREV I		EVALUATED
			R00000338	C-S96-011	SHRD31	UT-60L	19960325	PASS	NO		PREV 1		EVALUATED
	• -										PREV I		EVALUATED
	1 ka7 *										PREV I		EVALUATED
					2						PREV I		EVALUATED
											PREV I	556	EVALUATED

OWNER: TERMESSEE VALLEY AUTHORITY PLANT: BROVANS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP 1101 KAMAKET STREET CHATTANDOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 MATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

.

...

Ξ

.

..

.

NUTECH				TENNESSEE V	ALLEY	UTHORIT	Y				PRISI	4
NOTEON				FERRY NUCLI	EAR POWE	R PLANT		:				
					DATA B							
				ITAGE EXAMI							* PAGE	7
۳.				OUIREMENT		2 CTC ERIOD :	LE : 08				* REVISIO	- 0000 vr
			INI	ERVAL : UZ	r		2				* DATE	
*******	*******	*******	**********	*******	******	******	******	******	******	*****	*********	********
	SYSTEM	:	RPV REACTO	R PRESSURE	VESSEL	(NUCLEA	R BOILER)	- 068				
	ISOMETRIC N	UNBER : 1	N/A 5	SHEET : 00								
,						*******	*******	******	*******	*****	********	*********
	COMPONENT	CATGORY/	EXAMINATIO	I CAL.	CAL.	EXAN	EXAN	EXAN			INDICATION	INDICATIO
EATURE NUMBER	DESCRIPT.	ITEM NO.	REPORT NO.	REPORT NO.	STD.	TYPE	DATE		CREDIT		TYPE	RESOLUTIO
	IX EURIDEXER	*******	***********	F32222222	XX2333	222282	********	******	*****	******		
		001	00000779	C-S96-015	CUD031		10040328	2240	NO		PREV IGSCC	EVALUATED,
ORESHR-2-H-6	RPV SHR	RPV	K00000556	C-290-012	SIKUSI	UI-CKP	19900520	FA33	no		PREV IGSCC	EVALUATED,
		INT									PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED
			00000779	C-S96-013	CUDD31	117-/5	10060328	2240	NO		PREV IGSCC	EVALUATED,
			KUUUUU330	C-370-015	3111031	01-42	17700520	1700			PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
			P0000338	C-S96-014	SHRD31	UT-601.	19960328	PASS	NO		PREV IGSCC	EVALUATED,
			K00000330	0 370 014	011110-011	01 002					PREV IGSCC	EVALUATED,
			_								PREV IGSCC	EVALUATED,
			-								PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED
											PREV IGSCC	EVALUATED,
				0 00/ 010	CU0074	117-000	100/0725	DACC	NO		PREV IGSCC	EVALUATED,
ORESHR-2-H-7	RPV SHR	RPV	800000328	C-S96-018	248021	UI-CRP	19900323	PASS	NU		PREV IGSCC	EVALUATED,
		INT									PREV IGSCC	EVALUATED,
						•					PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
			00000779	C-S96-016	CU0074	117-/5	10060325	2240	NO		PREV IGSCC	EVALUATED,
			KUUUUU338	C-230-010	SUKUSI	01-42	17700323	ra33	πU		PREV IGSCC	EVALUATED;
											PREV IGSCC	EVALUATED;
	L)										PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,
											PREV IGSCC	EVALUATED,

 OWNER:
 TEXHESSEE VALLEY AUTHORITY
 PLANT:
 BROWNIS FERRY NUCLEAR PLANT

 NUCLEAR POWER GROUP
 DO. ROX 2000
 DO. ROX 2000

 1101 MARKET STREET
 DECATUR, ALABAÍNA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

4

:

.

..

.

-

00241

.

-

.

\$

.

•*

NUTECH				TENNESSEE N	EAR POW	ER PLANT		-			PRISI	4
			EXAM RE	ISI ITAGE EXAMII OUIREMENT ERVAL : 02	: B06-02	RESULTS	LE : 08	******	******	******	* PAGE * REVISIO * DATE	4 DN 0000
	SYSTEM ISOMETRIC M			R PRESSURE	VESSEL	(NUCLEA	R BOILER)) - 068	******	******	****	*****
EATURE NUMBER	DESCRIPT.	TTEM NO.	EXAMINATION REPORT NO.	REPORT NO.	CAL. STD.	EXAH TYPE	EXAN DATE	RESULT	CREDIT	REQST.	INDICATION TYPE	INDICATION RESOLUTION
ORESHR-2-H-7	RPV SHR	RPV INT	R00000338	C-S96-017	SHRD31	UT-60L	19960325	PASS	NO		PREV IGSCC PREV IGSCC PREV IGSCC PREV IGSCC PREV IGSCC PREV IGSCC	EVALUATED, EVALUATED, EVALUATED, EVALUATED, EVALUATED, EVALUATED,
STEEBX-2-VIS	TEE BOX	RPV INT	R00000337			VT-3	19960410	PASS	NO -			
PADJSC-2-VIS	SCREWS	RPV INT	R00000337			VT-3	19960410	PASS	NO			
PRISBR-2-11	RISER	RPV INT	R00000337			VT-3	19960404	PASS	NO			
PRISBR-2-12	RISER	RPV INT	R00000337			VT-3	19960404	PASS	NO			
PRISBR-2-13	RISER	RPV INT	R00000337			VT-3	19960404	PASS	NO			
PRISBR-2-14	RISER	RPV INT	R00000337			VT-3	19960404	PASS	NO			• •
IPRISBR-2-15	RISER	RPV INT	R00000337			vr-3	19960404	PASS	NO			
IPRISBR-2-16	RISER	RPV INT	R00000337			vt-3	19960407	PASS	NO			N.
IPRISBR-2-17	RISER	RPV INT	R00000337			VT-3	19960407	PASS	NO			

.

OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT NUCLEAR POWER GROUP TIOL MARKET STREET CHATTANOGA, TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 COMMERICAL SERVICE DATE: MARCH 1, 1975 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\$

...

4

•

•

.

*

NUTECH			TE BROWNS FE POST OUTA	ISI	AR POWE	ER PLANT ASE	- UNIT 2	2			PRISI	•	* * *
			EXAM REQU		B06-02		LE : 08				* PAGE * REVISIO * DATE		* * *
	SYSTEM ISOMETRIC N		RPV REACTOR	PRESSURE ET : 00	VESSEL	(NUCLEA	R BOILER) - 068	******	*****	*****	*******	* * * *
EATURE NUMBER			EXAMINATION REPORT NO. RE		CAL. STD.	EXAM TYPE	EXAM DATE		SEC XI R CREDIT R		INDICATION TYPE	INDICAT: RESOLUT:	
	RISER	001											
PRISBR-2-18	KIJEK	RPV INT	R00000337			VT-3	19960407	PASS	NO				
PRISBR-2-18 PRISBR-2-19	RISER		R00000337				19960407 19960407		NO NO				
		INT RPV				VT-3		PASS					
PRISBR-2-19	RISER	INT RPV INT RPV	R00000337			VT-3 VT-3	19960407	PASS PASS	NO				

OWNER: TERNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP TO MARKET STREET CHATTANOOGA TENNESSEE 37402 UNIT: TWO COMMERICAL SERVICE DATE: MARCH 1, 1975 MATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

ş

\$ F

•

••

4

..

EV 200

.

۰ . ۲

****** ******* NUTECH TENNESSEE VALLEY AUTHORITY PRISIM BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 ISI DATA BASE POST OUTAGE EXAMINATION RESULTS REPORT *********** EXAM REQUIREMENT : D02-02 CYCLE : 08 * PAGE PERIOD : 2 * REVISION 0000 INTERVAL : 02 * DATE 05/09/96 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068 ISOMETRIC NUMBER : CHN-2046-C SHEET : 02 COMPONENT CATGORY/ EXAMINATION CAL. EXAN CAL. EXAM EXAM SEC XI RELIEF INDICATION INDICATION DESCRIPT. ITEM NO. REPORT NO. REPORT NO. STD. TYPE FEATURE NUMBER DATE RESULT CREDIT REQST. TYPE RESOLUTION "PV-CLAD R00000337 INT SUR B-N-1 VT-1 19960410 PASS NO B13.10

UNIT:

OWNER:

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

. Т

۰ ۲ ۲

ч ч

NUTECH			BROWNS		EAR POWE	R PLANT	- UNIT 2	2			PRISI	4	, , ,
, , ,	-		EXAM RE	TAGE EXAMI OUIREMENT ERVAL : 02	: V01-02		LE : 08				* PAGE * REVISIO * DATE (***
	SYSTEM ISOMETRIC N		155 MAIN 5 151-0222-C 5	STEAN SYSTE SHEET : 02	M - 001	******	******	******	******	*****	*****		***
FEATURE NUMBER			EXAMINATION REPORT NO.			EXAM TYPE	EXAM DATE		SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICAT RESOLUT	
FCV-01-037	VAL INT	B-M-2 B12.50	R00000253			VT-3	19960402	ENGR	NO		WEAR	ANAL OK	ACC
fcv-01-037-BC	VALBLTG	B-G-2	R00000252			VI-1	19960402	PASS	Ю				

्रभ

 OWNER: TENNESSEE VALLEY AUTHORITY
 PLANT:
 BROWNS FERRY NUCLEAR PLANT

 1100 MARKET STREET
 PO. 80X 2000

 120 MARKET STREET
 DECATUR, ALABAMA 35602

 UNIT:
 TWO
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

 COMMERICAL SERVICE DATE:
 MARCH 1, 1975

 NATIONAL BOARD NUMBER FOR UNIT:
 NOT REQUIRED

\$

•*

1

.

00245

, i



⊀ .

.

ENCLOSURE 2

TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 2

REPAIR AND REPLACEMENTS SUMMARY REPORT FOR CYCLE 8 OPERATION

(SEE ATTACHED)

.

•

•

OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

APPENDIX I	Summary of Repair and	
	Replacement Activities	,
۵		

APPENDIX II ______ Form NIS-2 Owner's Report For Repairs or Replacements Owner: TENNESSEE VALLEY AUTHORITY Nuclear Power Group 1101 Market Street Chattanooga, TN 37402-2801 Plant: Browns Ferry Nuclear Plant P.O. Box 2000 Decatur, AL 35609-2000

Unit: Two

Certificate of Authorization: Not Required

Commercial Service Date: March 1, 1975

National Board Number For Unit: Not Required

APPENDIX I

SUMMARY OF REPAIR AND REPLACEMENT ACTIVITIES

Owner: TENNESSEE VALLEY AUTHORITY Nuclear Power Group 1101 Market Street Chattanooga, TN 37402-2801 Plant: Browns Ferry Nuclear Plant P.O. Box 2000 Decatur, AL 35609-2000

Unit: Two

Certificate of Authorization: Not Required

Commercial Service Date: March 1, 1975

National Board Number For Unit: Not Required

The following compilation of Form NIS-2 Owner's Report For Repairs Or Replacements is an accounting of those Class 1 and Class 2 repairs and replacements performed during the Unit 2 Cycle 8 period of operation from November 24, 1994 to April 24, 1996. Records of pump and valve inservice tests that were required to be performed as a result of a repair or replacement activity are listed on the applicable Form NIS-2.

Class 3 Form NIS-2 Owner's Report for Repairs Or Replacements are contained in the Browns Ferry Plant Report.

Owner:	TENNESSEE VALLEY AUTHORITY Nuclear Power Group 1101 Market Street Chattanooga, TN 37402-2801	Plant:	Browns Ferry Nuclear Plant P.O. Box 2000 Decatur, AL 35609-2000
Unit:	Two	Certificate of	Authorization: Not Required

Commercial Service Date: March 1, 1975

National Board Number For Unit: Not Required

WID	<u>SYS</u>	<u>ORG</u>	<u>CLASS</u>	ACTIVITY
92-65559-00	1	TVA	1	REPLACED
92-65561-00	1	TVA	1	REPLACED
94-09673-02	1	TVA	1	REPLACED
94-09673-03	1	TVA	1	REPLACED
94-09673-07	1	TVA	1	REPLACED
94-09673-08	1	TVA	1	REPLACED
94-09673-09	1	TVA	1	REPLACED
94-09849-13	1	TVA	1	REPLACED
94-19297-02	1	TVA	2	REPLACED
95-01268-00	1	TVA	1	REPLACED
95-01268-02	1	TVA	1	REPLACED
95-01268-04	1	TVA	1	REPLACED
95-17147-00	1	TVA	1	REPLACED
95-17147-01	1	TVA	1	REPLACED
95-17147-02	1	TVA	1	REPLACED
95-17147-03	1	TVA	1	REPLACED
95-17147-04	1	TVA	1	REPLACED
95-17147-05	1	TVA	1	REPLACED
95-17147-06	1 ·	TVA	1	REPLACED
95-17147-07	1	TVA	1	REPLACED
95-17147-08	1	TVA	1	REPLACED
95-17147-09	1	TVA	1	REPLACED
95-017249-000	1	TVA	1	REPLACED
95-17262-00	1	TVA	1	REPLACED
95-17495-00	1	TVA	1	REPLACEMENT
95-17503-00	1	TVA	1	REPLACED
95-019871-001	3	TVA	1	REPLACED
95-09486-00	63	TVA	2	REPAIRED

ų ų

n na serie de la construcción de la No serie de la construcción de la const el construcción de la construcci

· . ·

. . .

۰ ۲

, ,

Owner:	TENNESSEE VALLEY AUTHORITY Nuclear Power Group 1101 Market Street Chattanooga, TN 37402-2801	Plant: Browns Ferry Nuclear Plant P.O. Box 2000 Decatur, AL 35609-2000
Unit:	Two	Certificate of Authorization: Not Required

Commercial Service Date: March 1, 1975

National Board Number For Unit: Not Required

WID	SYS	ORG	CLASS	ACTIVITY
96-005973-000	68	TVA	1	REPLACED
96-005430-000	69	TVA	1	REPLACED
96-003325-000	71	TVA	2	REPLACED
96-004533-000	71	TVA	2	REPLACEMENT
T37407-001	71	TVA	2	REPLACEMENT
T37408-002*	71	TVA	2	REPLACEMENT
95-020348-000	73	TVA	2	REPLACEMENT
96-004536-000	73	TVA	2	REPLACEMENT
T37406-001	73	TVA	2	REPLACEMENT
T37408-001*	73	TVA	2	REPLACEMENT
95-08978-00	74	TVA	2	REPLACED
96-005983-000	74	TVA	1	REPAIRED
96-005547-000	77	TVA	2	REPLACED
95-06871-00	85	TVA	2	REPLACED
95-22076-04	85	NES	1	REPLACED
95-022229-001	85	NES	1	REPLACED

*Both WIDs are documented on the same Form NIS-2

¥

Owner: TENNESSEE VALLEY AUTHORITY Nuclear Power Group 1101 Market Street Chattanooga, TN 37402-2801 Plant: Browns Ferry Nuclear Plant P.O. Box 2000 Decatur, AL 35609-2000

Unit: Two

Certificate of Authorization: Not Required

Commercial Service Date: March 1, 1975

National Board Number For Unit: Not Required

LEGEND .

WID - Work Implementing Document

ex. Txxxxx-xxx refers to a workplan 9x-xxxxx-xx or 9x-xxxxx-xxx refers to a work order

SYS - System

- 1 Main Steam
- 3 Reactor Feedwater
- 63 Standby Liquid Control
- 68 Reactor Water Recirculation
- 69 Reactor Water Cleanup
- 71 Reactor Core Isolation Cooling
- 73 High Pressure Coolant Injection
- 74 Residual Heat Removal
- 77 Clean Radwaste
- 85 Control Rod Drive
- ORG Organization which performed the WID
 - TVA Work performed by TVA utilizing TVA and/or Stone and Webster Engineering Corporation personnel
 - NES Work performed by Nuclear Energy Services utilizing TVA's Quality Assurance Program and procedures

CLASS - Refers to ASME Code Class 1 or 2

ACTIVITY - Classifies work activity as being repaired, replaced, or replacement as denoted on NIS-2 Form

Owner: TENNESSEE VALLEY AUTHORITY Nuclear Power Group 1101 Market Street Chattanooga, TN 37402-2801 Plant: Browns Ferry Nuclear Plant P.O. Box 2000 Decatur, AL 35609-2000

Unit: Two

Certificate of Authorization: Not Required

٨

Commercial Service Date: March 1, 1975

National Board Number For Unit: Not Required

APPENDIX II

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. ^{Name}	DateJune 2, 1996
	<u>Chattanooga, TN_37402-2801</u>	Sheet of
2.	Plant Browns Ferry Nuclear Plant Name	Unit2
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Work Order 92-65559-00 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA Name	Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Expiration DateN/A
'4.	Identification of System System 01, Main Steam	*

5. (a) Applicable Construction Code ASME Sec. III 19 68 Edition, Summer 1970 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line Relief Valve	Target Rock Corp.	TVA S/N 1023	N/A	(See Remark)	N/A	Replaced	No
							*
						,it	
				•			

Refurbished MSRV Main Body Assembly (TVA Serial No. 1023) which consisted of 7. Description of Work replacing miscellaneous bolts/studs/nuts; this value is an ASME Code Class 1

equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure •• Other Pressure_____psi Test Temp._____°F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

* and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 2 of 218

FORM NIS-2 (Back)

9.	Remarks <u>MSRV Main Body Asembly (TVA S/N 1023) had last been installed at the</u>
	Applicable Manufacturer's Data Reports to be attached 3-PCV-001-0031 location (reference WO 92-52537-00 for documentation of valve
	removal). MSRV S/N 1023 was later installed and subsequently tested at location
	<u>2-PCV-001-0019 (ref. WO 95-17147-04) as part of the U2C8 outage work.</u>

We cartify that the statements me	CERTIFICATE OF COMPLIANCE adde in the report are correct and this <u>replacement</u> conforms to the rules of the
SME Code, Section XI.	repair or replacement
	·
ype Code Symbol Stamp	N/A
ertificate of Authorization No.	N/A Expiration Date N/A
igned Hilles Milles T Owger or Owner Designee, Title	7, System Engineer Date Junie 5, 19.96
	CERTIFICATE OF INSERVICE INSPECTION
	ion issued by the National Board of Boiler and Pressure Vessel Inspectors and the State $\mathcal{U} \subseteq \mathcal{A} = \mathcal{T} \not \subset \mathcal{T}$
r Province of <u>TENN</u> . an <u>HARTFORP, CT</u>	
this Owner's Report during the period_	have inspected the components described the components described to, and state that
the best of my knowledge and belief, the	the Owner has performed examinations and taken corrective measures described in this
wner's Report in accordance with the requ	
	nspector nor his employer makes any warranty, expressed or implied, concerning th
kaminations and corrective measures desc	cribed in this Owner's Report. Furthermore, neither the Inspector nor his employe
all be liable in any manner for any person	nal injury or property damage or a loss of any kind arising from or connected with thi
spection.	
(Ilbertel)	TALZIZE "TU "ALU
Inspector's Signature	Commissions <u>TN3/35</u> <u>Z</u> <u>N</u> National Board, State, Province, and Endorsements
6/2 /2	
ate 720195 19	

Page <u>3 of 218</u>

72 of 113

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1.	Owner TENNESSEE VALLEY AUTHORI	<u>TY</u>	DateJune 6, 1996			
•••	1101 Market St.Name					
	Chattanooga, TN 37402-2	801 s	Sheet			
	Address					
2.	Plant BRowns Ferry Nuclear Pla	<u>nt</u> (Unit2			
	Name		····			
	P.O. Box 2000; Decatur, AL 3	5609-2000	Work Order 92-65561-00			
	Address		Repair Organization P.O. No., Job No., etc.			
3.	Work Performed by TVA		Type Code Symbol StampN/A			
	Name	A	Authorization No. N/A			
	P.O. Box 2000; Decatur, AL 3		Expiration DateN/A			
	Address	* *				
4.	Identification of System System 01,	Main Steam				
		~ ~ ~ ~	* * *			

5. (a) Applicable Construction Code <u>ASME Sec. III</u> 1968 Edition, <u>Summer 1970</u> Addenda, <u>N/A</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>86</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line	Target Rock	TVA S/N			1		
Relief Valve	Corp.	1073	N/A	(See Remarks)	N/A	Replaced	No
	6 × € ×		د				
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
11							
				• •			
7 Deteriotion of Work				VA S/N 1073) wh nuts; this valv			

equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure psi Test Temp._____°F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. × 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.

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

*and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600 Page 4 of 218

9.	Remarks	MSRV	Main	Body	Assembly	(TVA	s/n	1073)	had	last	been	ins	talle	d at	the	;
	3-PCV-	-001-	0004 :	locati	Appli Lon (refe			urer's Date 92–525					ation	of	valv	<u>'e</u>
	remova	1).	MSRV	S/N 1	1073 was	later	ins	talled	and	subse	equen	tly_	teste	d at	:	
	locati	lon 2	-PCV-	001-01	180 (ref.	WO 9.	5-17	147-03	) as	part	of U	nit	2, Cy	cle	8 ou	tage
		-								٠						

	CERTIFICATE O	F COMPLIANCE	
We certify that the statemer	nts made in the report are c	orrect and this <u>repla</u>	cement conforms to the rules of the
ASME Code, Section XI.		repair or	replacement ,
•			
Type Code Symbol Stamp		N/A	
Certificate of Authorization No.	N/A		• N/A
	······		
JAT TANK	Ort. System En	gineer Date 5	lune la sola
oigned Conner a Designee,	Title	Date	<u> </u>
			· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF IN	NSERVICE INSPECTIO	N
	· · · ·	-	d Pressure Vessel Inspectors and the State
or Province of TENN.	and employed by	<u> 15BIET</u>	0
HARTFORD, CT		hav	e inspected the components described
n this Owner's Report during the pe	eriod <i>2/20/96</i>	to	1/20/96 , and state that
o the best of my knowledge and bell	lef, the Owner bas perform	ned examinations and t	aken corrective measures described in thi
Owner's Report in accordance with the	• • • •		
	•	•	we approved an inaction concerning th
			ty, expressed or implied, concerning th
		•	e, neither the Inspector nor his employe
	personal injury or property	damage or a loss of any	v kind arising from or connected with this
nspection.	•		
(III + Zud		+ - 2/2/	- " Y "/ / W
Inspector's Signatur	Comm	issions	rd, State, Province, and Endorsements
Lusbacrot a Siduardi	78	National Boa	rd, State, Province, and Endorsements
1			
DateJune 21	19.96	<b>^</b> -	

Ø,

FORM NIS-2 (Back)

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1.	Owner TENNESSEE VALLEY AUTHORITY	DateJune 16, 1996				
	1101 Market St. ^{Name} Chattanooga, TN 37402-2801	Sheet of				
	Address	Sheet,Of,				
2.	Plant Browns Ferry Nuclear Plant	Unit 2				
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 94-09673-02				
	Address	Repair Organization P.O. No., Job No., etc.				
3.	Work Performed by TVA	Type Code Symbol Stamp N/A				
	Name	Authorization No. <u>N/A</u>				
	P.O. Box 2000; Decatur, AL 35609-2000	Expiration DateN/A				
	Address	1				
4.	Identification of System System 01, Main Steam	· · · · · · · · · · · · · · · · · · ·				
5,	(a) Applicable Construction Code <u>ASME Sec. III</u> 19 68 Edition,	Summer 1970 Addenda, N/A Code Case				

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	, Manufacturer Serial No,	National Board No.	Other • Identification	Year Built	Repairéd, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line Relief Valve	Target Rock Corp.	N/A	N/A	N/A	N/A	Replaced	No
	,			ų		•	
			2 °	-			*
A .							
٢							

7. Description of Work S/N 1018; this item of the MSRV is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure______psi Test Temp.______°F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

* and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 6 of 218

#### FORM NIS-2 (Back)

# 9. Remarks Pilot stage assembly S/N 1018 had previously been located at MSRV

Applicable Manufacturer's Data Reports to be attached <u>2-PCV-001-0022</u> and was removed per WO #93-01107-05 during the Unit 2, Cycle 6 outage for shipment to Wyle Lab for refurbishment and as-found setpoint testing per 0-SI-4.6.D.1, Bench Test Relief Valves. This pilot stage assembly was later installed at MSRV 3-PCV-001-0022 position for WO #92-52537-06.

			enlacement	
We certify that the statemen ASME Code, Section XI.	ts made in the report are	reparent and this reparent	air or replacement	nforms to the rules of the
		*		
ype Code Symbol Stamp		N/A		·· ··
Certificate of Authorization No.	N/A	Expiration	Date	N/A
igned Die Owner's Designee,	Title , System I	Engineer Date_	JUNIE 10	, 19 <u>.96</u>
	CERTIFICATE OF		CTION	•
, the undersigned, holding a valid com	mission issued by the Na	tional Board of Boil	er and Pressure Ves	sel Inspectors and the State
r Province of <u>TENN</u> HARTFORD CT	and employed by			of
this Owner's Report during the pe	rind 2/2/95	•••	_have inspected f	the components described
a tins owners neport during the pe		10	and taken corrective	
o the best of my knowledge and belie	ef, the Owner has perfo	rmed examinations :		
o the best of my knowledge and belie owner's Report in accordance with the	•			,
· -	requirements of the AS	ME Code, Section X	ı.	,
wner's Report in accordance with the By signing this certificate neither t xaminations and corrective measures	requirements of the AS he Inspector nor his em described in this Owne	ME Code, Section X ployer makes any w er's Report. Further	l. varranty, expressed rmore, neither the l	or implied, concerning the Inspector nor his employer
wher's Report in accordance with the By signing this certificate neither the xaminations and corrective measures hall be liable in any manner for any p	requirements of the AS he Inspector nor his em described in this Owne	ME Code, Section X ployer makes any w er's Report. Further	l. varranty, expressed rmore, neither the l	or implied, concerning the Inspector nor his employer
owner's Report in accordance with the By signing this certificate neither t xaminations and corrective measures	requirements of the AS he Inspector nor his em described in this Owne	ME Code, Section X ployer makes any w er's Report. Further	l. varranty, expressed rmore, neither the l	or implied, concerning the Inspector nor his employer
owner's Report in accordance with the By signing this certificate neither the xaminations and corrective measures hall be liable in any manner for any p aspection, Macut	requirements of the AS he Inspector nor his em described in this Owne personal injury or proper	ME Code, Section X ployer makes any w er's Report, Further ty damage or a loss o	I. varranty, expressed rmore, neither the l of any kind arising f	or implied, concerning the Inspector nor his employer rom or connected with this
wher's Report in accordance with the By signing this certificate neither the xaminations and corrective measures hall be liable in any manner for any p	requirements of the AS he Inspector nor his em described in this Owne personal injury or proper	ME Code, Section X ployer makes any w er's Report, Further ty damage or a loss o	I. varranty, expressed rmore, neither the l of any kind arising f	or implied, concerning the Inspector nor his employer
owner's Report in accordance with the By signing this certificate neither the xaminations and corrective measures hall be liable in any manner for any p aspection, Macut	requirements of the AS he Inspector nor his em described in this Owne personal injury or proper	ME Code, Section X ployer makes any w er's Report, Further ty damage or a loss o	I. varranty, expressed rmore, neither the l of any kind arising f	or implied, concerning the Inspector nor his employer rom or connected with this
owner's Report in accordance with the By signing this certificate neither the xaminations and corrective measures hall be liable in any manner for any p aspection, Macut	requirements of the AS he Inspector nor his em described in this Owne personal injury or proper	ME Code, Section X ployer makes any w er's Report, Further ty damage or a loss o	I. varranty, expressed rmore, neither the l of any kind arising f	or implied, concerning the Inspector nor his employer rom or connected with this
Wher's Report in accordance with the By signing this certificate neither the xaminations and corrective measures hall be liable in any manner for any p aspection, Inspector's Signature	requirements of the AS he Inspector nor his em described in this Owne personal injury or proper	ME Code, Section X ployer makes any w er's Report, Further ty damage or a loss o	I. varranty, expressed rmore, neither the l of any kind arising f	or implied, concerning the Inspector nor his employer rom or connected with this

----

_	· · · · · · · · · · · · · · · · · · ·	
1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. Name	DateJune 8, 1996
	Chattanooga, TN 37402-2801 Address	Sheet of
2.	Plant Browns Ferry Nuclear Plant Name	Unit 2
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Work Order 94-09673-03 Repair Organization P.O. No., Job No., etc.
3.	Work Performed byName	Type Code Symbol Stamp     N/A       Authorization No.     N/A
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Expiration DateN/A
4.	Identification of System <u>System 01, Main Steam</u>	• •
5.	(a) Applicable Construction Code ASME Sec. III 19.68 Edition,	<u></u>

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements  $19\underline{86}$ 

6. Identification of Components Repaired or Replaced and Replacement Components

- Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repālrèd, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line	Target Rock	N7 / A	N / A	N / A	N/4	Deplead	No
Relief Valve	Corp.	<u>N/A</u>	<u>N/A</u>	N/A	N/A	Replaced	No
				•	4		
		¢.				'	
	4. 		x.				
					L a		
7. Description of Work	Replaced the S/N 1019 which	spherical-col h will_be_uti	lar and one l lized as a s	oolt (item #112) pare; this part	) in pil of the	ot stage asse MSRV is an AS	mbly ME Code
-	Class 1 equiva				3		

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure psi Test Temp.______°F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

* and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Page 8 of 218

# 9. Remarks Pilot stage assembly S/N 1019 had previously been installed at the 3-PCV-001-0042 position

Applicable Manufacturer's Data Reports to be attached and was removed per WO #92-52537-00. Upon completion of refurbishment per WO #94-09673-03, pilot stage assembly S/N 1019 was as-left setpoint tested at Wyle Lab per surveillance instruction O-SI-4.6.D.1, Bench Test Relief Valves. WO #94-09673-03 was categorized as a Unit 2, Cycle 8 work as pilot stage assembly S/N 1019 was later installed at the 2-PCV-001-0041 position as documented by WO #95-01268-02 (installation occurred mid-cycle on 3/31/95).

We certify that the statement	CERTIFICATE OF C		
ASME Code, Section XI.		repair or replacen	ient ,
Type Code Symbol Stamp		N/A	
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed Hiller Owper or Owger's Designee,	, System Engin	neer _{Date} Juie	<u> </u>
••••••••••••••••••••••••••••••••••••••	CERTIFICATE OF INSE	RVICE INSPECTION	. <u></u>
Dr Próvince of TENN	and employed by	have inspe	of the components described
or Próvince of <u>TENN</u> <u>HARTFORD, CT</u> n this Owner's Report during the per	and employed by5 riod <i>73/95</i>	BIST have_inspe to <i>4/20/96</i>	of cted the components described , and state that
or Próvince of <u>TENN</u> <u>HARTFORD</u> , <u>CT</u> in this Owner's Report during the per to the best of my knowledge and belie	and employed by riod <i>7/3/95</i> of, the Owner has performed	brer have inspe- to <u>4/80/96</u> examinations and taken cor	of cted the components described , and state that
or Próvince of <u>TENN</u> <u>HARTFORD</u> , <u>CT</u> in this Owner's Report during the per- to the best of my knowledge and belie Owner's Report in accordance with the By signing this certificate neither the	and employed by riod/ <i>3/45</i> of, the Owner has performed requirements of the ASME C he Inspector nor his employed	have inspe- to <u>1/20/96</u> examinations and taken cor ode, Section XI. er makes any warranty, expl	
or Próvince of <u>TENN</u> <u>HARTFORD</u> , <u>CT</u> in this Owner's Report during the per- to the best of my knowledge and belie Owner's Report in accordance with the By signing this certificate neither the examinations and corrective measures	and employed by riod/3/95 of, the Owner has performed requirements of the ASME C he Inspector nor his employe described in this Owner's F	have inspe- to <u>4/20/96</u> examinations and taken cor ode, Section XI. er makes any warranty, exp Report. Furthermore, neithe	
<u>HARTFORD</u> , <u>CT</u> in this Owner's Report during the per- to the best of my knowledge and belie Owner's Report in accordance with the By signing this certificate neither the examinations and corrective measures shall be liable in any manner for sny p	and employed by riod/3/95 of, the Owner has performed requirements of the ASME C he Inspector nor his employe described in this Owner's F	have inspe- to <u>4/20/96</u> examinations and taken cor ode, Section XI. er makes any warranty, exp Report. Furthermore, neithe	
or Próvince of <u>TENN</u> <u>HARTFORD</u> , <u>CT</u> in this Owner's Report during the per- to the best of my knowledge and belie Owner's Report in accordance with the By signing this certificate neither the examinations and corrective measures	and employed by riod of, the Owner has performed requirements of the ASME C he Inspector nor his employe described in this Owner's F rersonal injury or property dat	brer have inspe- to <u>4/80/96</u> examinations and taken cor ode, Section XI. er makes any warranty, expl teport. Furthermore, neithe mage or a loss of any kind ar	
or Próvince of <u>TENN</u> <u>HARTFORD</u> , <u>CT</u> in this Owner's Report during the per- to the best of my knowledge and belie Owner's Report in accordance with the By signing this certificate neither the examinations and corrective measures shall be liable in any manner for any p inspection.	and employed by riod of, the Owner has performed requirements of the ASME C the Inspector nor his employed described in this Owner's F rersonal injury or property data	brer have inspe- to <u>4/80/96</u> examinations and taken cor ode, Section XI. er makes any warranty, expl teport. Furthermore, neithe mage or a loss of any kind ar	of cted the components described rective measures described in this essed or implied, concerning the r the inspector nor his employer ising from or connected with this
or Próvince of <u>TEWN</u> <u>HARTFORD</u> , <u>CT</u> in this Owner's Report during the per to the best of my knowledge and belie Owner's Report in accordance with the By signing this certificate neither the examinations and corrective measures shall be liable in any manner for sny p	and employed by riod of, the Owner has performed requirements of the ASME C the Inspector nor his employed described in this Owner's F rersonal injury or property data	brer have inspe- to <u>4/80/96</u> examinations and taken cor ode, Section XI. er makes any warranty, expl teport. Furthermore, neithe mage or a loss of any kind ar	
or Próvince of <u>TENN</u> <u>HARTFORD</u> , <u>CT</u> in this Owner's Report during the per- to the best of my knowledge and belie Owner's Report in accordance with the By signing this certificate neither the axaminations and corrective measures shall be liable in any manner for any p inspection.	and employed by riod of, the Owner has performed requirements of the ASME C the Inspector nor his employed described in this Owner's F rersonal injury or property data	brer have inspe- to <u>4/80/96</u> examinations and taken cor ode, Section XI. er makes any warranty, expl teport. Furthermore, neithe mage or a loss of any kind ar	of cted the components described rective measures described in this essed or implied, concerning the r the inspector nor his employer ising from or connected with this

Page 9_of.218_

1.	Owner TENNESSEE VALLEY AUTHORITY	Date May 18, 1996
	1101 Market St. Name	
	Chattanooga, TN 37402-2801	Sheet of1
	Address	,
2	Plant Browns Ferry Nuclear Plant	Unit2
4.	Name	
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 94-09673-07
	Address	Repair Organization P.O. No., Job No., etc.
з.	Work Performed by TVA	Type Code Symbol StampN/A
	Name	Authorization No. N/A
	P.O. Box 2000, Decatur, AL 35609-2000	Expiration DateN/A
	Address	
4.	Identification of System System 01, Main Steam	
	X .	ملا

(a) Applicable Construction Code <u>ASME Sec. III</u>19 68 Edition, <u>Summer 1970</u> Addenda, <u>N/A</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19.86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam	Target	TVA S/N	. e	2-PCV-001		4	
Line B Relief	Rock Corp.	1033	<u>N/A</u>		N/A,	Replaced_	_No
Valve	S. In		τ <b>φ</b> • -	ж. *			
							-
2							
j							
							<b></b>

Installed spare pilot stage assembly S/N 1079 in place of (then) 7. Description of Work <u>existing pilot stage assembly S/N 1070 on MSRV 2-PCV-001-0018;</u> the MSRV is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp, N/A °F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 *and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 10 of 218

# 9. Remarks Pilot stage assembly S/N 1079 was setpoint tested at Wyle Lab per

Applicable Manufacturer's Data Reports to be attached surveillance instruction O-SI-4.6.D.1, Bench Test Relief Valves. After installation at 2-PCV-001-0018, the MSRV was pressure tested in accordance with the <u>Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A..Other testing</u> performed to verify valve operability prior to return to service included test 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test.

We certify that the statement ASME Code, Section XI.		OF COMPLIANCE correct and this <u>replacemen</u> repair or replacem	
Type Code Symbol Stamp		N/A	<u></u>
Certificate of Authorization No.	N/A		N/A
Signed Hillson Owner or Owner's Designee, T	, System E	ingineer Date May	18, 19 <u>96</u>
I, the undersigned, holding a valid common Province of <u>TEALN</u> . In this Owner's Report during the period the best of my knowledge and belief Dwner's Report in accordance with the maximum best of the best of my knowledge and belief Dwner's Report in accordance with the maximum best of the be	and employed by Hi <u>CONNI</u> iod <u>11-27-</u> t, the Owner has perfor requirements of the ASM e Inspector nor his emp described in this Owner rsonal injury or propert	$\frac{2}{4}$ have inspective inspectine inspectine inspectine inspectine inspectine inspec	TNSP. 9-TNSI CD of cted the components described GLC , and state that rective measures described in this ressed or implied, concerning the r the inspector nor his employer

Page 11 of 218

1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. Name	Date May 18, 1996
	- Chattanooga, TN 37402-2801	
2.	Plant_Browns Ferry Nuclear Plant Name	Unit2
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Work Order 94-09673-08 Repair Organization P.O. No., Job No., etc.
3.	Work Performed byName	Type Code Symbol StampN/A Authorization NoN/A
	P.0. Box 2000; Decatur, AL 35609-2000 Address	Expiration Date <u>N/A</u>
4.	Identification of System System 01, Main	Steam

5. (a) Applicable Construction Code <u>ASME .Sec.III</u>19 <u>68</u> Edition, <u>Summer 1970</u> Addenda, <u>* N/A</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>86</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No. 1	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam	Target	TVA S/N		2-PCV-001	# 5 ⁴		
Line.)D Relief	Rock Corp.	1015	<u>N/A</u> .	<u> </u>	<u>N/A</u>	Replaced_	No
Valve	► 1	5 5 4 1	× .	, 7 			
							·
۹							
7. Description of Work		spare pilo ilot stage	t stage as: assembly {	sembly S/N 1 S/N 1019 on 1	015 1n MSRV 2	place.of -PCV-001-00	(then) 041;
1. Southand How				1 equivalen			
	Hydrostatic Pr Other Pressure	neumatic No <u>N/A</u> psi					

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 *and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 12 of 218

9. Remarks Pilot stage assembly S/N 1015 was setpoint tested at Wyle Lab per Surver Lance Applicable Manufacturer's Data Reports to be attached

surveillance instruction 0-SI-4.6.D.1, Bench Test Relief Valves. After instalfacion lation at 2-PCV-001-0041, the MSRV was pressurestested in accordance with the Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other testing performed to verify valve operability prior to return to service included test 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test.

We certify that the stateme	CERTIFICATE OF nts made in the report are co	COMPLIANCE orrect and this replacemen	t_conforms to the rules of the
SME Code, Section XI.		repair or replacem	ent
	•	4	
vpe Code Symbol Stamp		N/A	
ertificate of Authorization No.	N/Á ·	Expiration Date	N/A
gned Life or Owher's Designee,	, System Eng Title	gineer Date MAY	19 <u>96</u>
<u></u>	CERTIFICATE OF IN	SERVICE INSPECTION	
the undersigned, holding a valid con Province of <u>TENN</u> .	and employed by HEF	STEOld STM. BUR.,	DNSP FINS, CD. of
Province of TENN. HADFORN	and employed by HEF	STEOLES STITT. BUR.	TIMSP
Province of <u>TENN</u> . <u>HARFOR</u> this Owner's Report during the p	and employed by HER CONNO eriod 11-27-9	3150ld SITTL BUR, have inspec 15to_6-3-9	DNSP. HINS. CO. of ted the components described (, and state that
Province of TENN.	and employed by HER CONNI eriod 11-27-9 lief, the Owner has perform	BIFOLD SITTL BUR, have inspec 5 to 6 - 3 - 9 ed examinations and taken corre	DNSP. HINS. CO. of ted the components described (, and state that
Province of <u>TENN</u> . <u>HEDEOPO</u> this Owner's Report during the p the best of my knowledge and bel wner's Report in accordance with th	and employed by HEF 	BIFOLD STITTL BLR. have inspec 5 to 6 - 3 - 9 ed examinations and taken correct Code, Section XI.	DNSP. HTNS ( CD, of ted the components described (, and state that ective measures described in this
Province of <u>TENN</u> . <u>HFREOPON</u> this Owner's Report during the p the best of my knowledge and bel vner's Report in accordance with th By signing this certificate neither	and employed by HER eriod <u>11-27-9</u> lief, the Owner has perform re requirements of the ASME the Inspector nor his employed	BIEOLC SITTL BLR, have inspec 5 to <u>6 3 9</u> ed examinations and taken corre E Code, Section XI, byer makes any warranty, expre	DNSP. ETNS, CD, of ted the components described (, and state that ective measures described in this essed or implied, concerning the
Province of <u>TENN</u> . <u>HFREDOD</u> this Owner's Report during the p the best of my knowledge and bel wner's Report in accordance with th By signing this certificate neither aminations and corrective measure all be liable in any manner for any	and employed by HER eriod <u>11-27-9</u> lief, the Owner has perform requirements of the ASME the Inspector nor his emplo s described in this Owner's	BIEOLC SITTL BLR, have inspec 5 to <u>6 - 3 - 9</u> ed examinations and taken corre Code, Section XI. Over makes any warranty, express s Report. Furthermore, neither	DNSPETNS, CD, of ted the components described , and state that ective measures described in this essed or implied, concerning the the inspector nor his employer
Province of <u>TENN</u> . <u>HFREDOD</u> this Owner's Report during the p the best of my knowledge and bel wner's Report in accordance with th By signing this certificate neither aminations and corrective measure	and employed by HER eriod <u>11-27-9</u> lief, the Owner has perform requirements of the ASME the Inspector nor his emplo s described in this Owner's	BIEOLC SITTL BLR, have inspec 5 to <u>6 - 3 - 9</u> ed examinations and taken corre Code, Section XI. Over makes any warranty, express s Report. Furthermore, neither	DNSPETNS: CD. of ted the components described , and state that ective measures described in this ssed or implied, concerning the the inspector nor his employer
Province of <u>TENN</u> . <u>HFRIFOPO</u> this Owner's Report during the p the best of my knowledge and bel wner's Report in accordance with th By signing this certificate neither aminations and corrective measure all be liable in any manner for any	and employed by HER eriod <u>11-27-9</u> lief, the Owner has perform requirements of the ASME the Inspector nor his emplo s described in this Owner's personal injury or property	ALEORES INTL BUR, have inspec to <u>6 - 3 - 9</u> ed examinations and taken corre Code, Section XI. Over makes any warranty, expre s Report. Furthermore, neither damage or a loss of any kind aris	TANSP TAS, CD, of ted the components described , and state that ective measures described in this essed or implied, concerning the the inspector nor his employer sing from or connected with this
Province of <u>TENN</u> . <u>HFRIFOPO</u> this Owner's Report during the p the best of my knowledge and bel wner's Report in accordance with th By signing this certificate neither aminations and corrective measure all be liable in any manner for any	and employed by HER eriod <u>11-27-9</u> lief, the Owner has perform requirements of the ASME the Inspector nor his emplo s described in this Owner's personal injury or property	ALEORES INTL BUR, have inspec to <u>6 - 3 - 9</u> ed examinations and taken corre Code, Section XI. Over makes any warranty, expre s Report. Furthermore, neither damage or a loss of any kind aris	TANSP TAS, CD, of ted the components described , and state that ective measures described in this essed or implied, concerning the the inspector nor his employer sing from or connected with this
Province of <u>TENN</u> . <u>HFRIFOPO</u> this Owner's Report during the p the best of my knowledge and bel wner's Report in accordance with th By signing this certificate neither aminations and corrective measure all be liable in any manner for sny spection. <u>B.J.</u>	and employed by HER eriod <u>11-27-9</u> lief, the Owner has perform requirements of the ASME the Inspector nor his emplo s described in this Owner's personal injury or property	BIEOLC SITTL BLR, have inspec 5 to <u>6 - 3 - 9</u> ed examinations and taken corre Code, Section XI. Over makes any warranty, express s Report. Furthermore, neither	TANSP TAS, CD, of ted the components described , and state that ective measures described in this essed or implied, concerning the the inspector nor his employer sing from or connected with this
Province of <u>TENN</u> . <u>HFRIFOPO</u> this Owner's Report during the p the best of my knowledge and bel wner's Report in accordance with th By signing this certificate neither aminations and corrective measure all be liable in any manner for sny spection. <u>B.J.</u>	and employed by HER eriod <u>11-27-9</u> lief, the Owner has perform requirements of the ASME the Inspector nor his emplo s described in this Owner's personal injury or property	ALEORES INTL BUR, have inspec to <u>6 - 3 - 9</u> ed examinations and taken corre Code, Section XI. Over makes any warranty, expre s Report. Furthermore, neither damage or a loss of any kind aris	TAISP. <u></u> TAS, CD, of ted the components described <u>c</u> , and state that ective measures described in this ssed or implied, concerning the the inspector nor his employer sing from or connected with this

Page 13 of 218

)

1.	Owner TENNESSEE VALLEY AUTHORITY	DateMay 18, 1996
	1101 Market St. Name	· /
	Chattanooga, TN 37402-2801	Sheet of
2.	Plant Browns Ferry Nuclear Plant	Unit2
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 94-09673-09 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA	Type Code Symbol Stamp <u>N/A</u>
	P.O. Box 2000; Decatur, AL 35609-2000	Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
۳	Address -	
4.	Identification of System System 01, Main Steam	n

5. (a) Applicable Construction Code <u>ASME Sec. III</u>19 <u>68</u> Edition, <u>Summer 1970</u> Addenda, <u>N/A</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19.86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam	Target ,	TVA S/N	N/A	2-PCV-001 -0042	N/A	Replaced	No
<u>Line D Relief</u> Valve	Rock Corp.	1084	N/A	0042		Repraced	
Varve		•	a	ч			
			·				•
·			. *				• :
• •							
						-	
		1					
	Installed s	pare pilot	stage ass	embly S/N 10	32 in	place of (	then)

7. Description of Work existing pilot stage assembly S/N 1029 on MSRV 2-PCV-001-0042; the MSRV is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A °F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 * and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 14 of 218

# 9. Remarks Pilot stage assembly 1032 was setpoint tested at Wyle Lab per surveillance

Applicable Manufacturer's Data Reports to be attached instruction O-SI-4.6.D.1, Bench Test Relief Valves. After installation at 2-PCV-001÷0042, the MSRV was pressure tested in accordance with the Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other testing performed to verify valve operability prior to return to service included test 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test.

We certify that the statements ASME Code, Section XI.		OF COMPLIANCE e correct and this <u>replac</u> repair or rep	ement conforms t	o the rules of the
Type Code Symbol Stamp	· · · · ·	N/A	··· · · · · · · · · · · · · · · · · ·	
Certificate of Authorization No.	N/A	Expiration Date	N/A	
Signed Hollin Children Ti Owner or Owner's Designee, Ti	, System )	Engineer Date	ay 18	, 19 <i>96_</i>
······································	CERTIFICATE OF	INSERVICE INSPECTION	<u></u>	
I, the undersigned, holding a valid comm or Province of				ctors and the State.
		have		
in this Owner's Report during the perio				-
to the best of my knowledge and belief, Owner's Report in accordance with the re			an corrective measur	es described in this
By signing this certificate neither the			. expressed or impli	ed, concerning the
examinations and corrective measures d	lescribed in this Own	er's Report. Furthermore, r	neither the Inspecto	r nor his employer
shall be liable in any manner for any per inspection.	rsonal injury or proper	rty damage or a loss of any k	ind arising from or o	connected with this
	•	<u> </u>		
D. J. TIC	Com	missions $\frac{9635-11}{National Board}$	I. H-N	
		Wattonal Board,		
Date	<u>96</u>			
			<u></u>	
×				
				•
	Page_10	_of_218		,
	Page 15	_of <u>-218_</u>		,

Para .

1.	Owner_	TENNESSEE	VALLEY AUTHO	RITY	_ Date	June 19, 1	.996	
-	_	1101 Marke	et St. ^{Name}					
		Chattanoo	ga, TN 37402	-2801	Shee	t of	1	
		······································	Address					
2.	Plant	Browns Fer	rry Nuclear P	lant	Unit			
			Name					
	P.O.	Box 2000;	Decatur, AL	35609-2000	W	lork Order 94-		
			Address		-	Repair Organization	n P.O. No., Job N	o., etc.
3	Work Pe	rformed by	TVA		Туре	Code Symbol Stamp.	<u> </u>	
۰.			Name		Auth	orization No.	N/A	
	P.O.	Box 2000;	Decatur, AL	35609-2000		ration Date	27/1	
			Address					đ
4.	Identific	ation of System_	System 0	<u>l, Main Stea</u> r	n	·		
	(0) 000	liashia Construct	ion Code ASME Sec.	. III 19 68 Ed	lition Sum	er 1970 Addenda	* N/A	Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86____

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year ⊪ Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line Relief Valve	Target Rock Corp.	N/A	N/A	N/A	N/A	Replaced	No
		-	-				
				÷.			٢
			-	· ·			

Replaced the pilot disc, item No. 55, in spare pilot stage assembly S/N 1070; this 7. Description of Work_part of the MSRV is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure_____psi Test Temp._____°F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

* and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 16 of 218

9. Remarks <u>Pilot stage assembly S/N 1070 had previously been installed at the 2-PCV-001-0022 position</u> Applicable Manufacturer's Data Reports to be attached

and was removed per WD #92-47528-00 during the Unit 2, Cycle 6 operating cycle. Upon completion of refurbishment per this WO (#94-09849-13), pilot stage assembly S/N 1070 was as-left setpoint tested at Wyle Lab per surveillance instruction O-SI-4.6.D.1, Bench Test Relief Valves. WO #94-09849-13 was categorized as a Unit 2, Cycle 8 work activity as pilot stage assembly S/N 1070 was later installed at the 2-PCV-001-0018 position as documented by WO #95-01268-00.

	CERTIFICATE OF COMPLIANCE
We certify that the statemen ASME Code, Section X1.	s made in the report are correct and this <u>replacement</u> conforms to the rules of the repair or replacement .
Type Code Symbol Stamp	N/A
Certificate of Authorization No.	N/A Expiration Date N/A
Signed Halling Chille	itie System Engineer Date JUNE 19_, 19.96
	CERTIFICATE OF INSERVICE INSPECTION
or Province of TENN	nission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by
or Province of <u>TENN</u> <u>HARTFORD</u> <u>CT</u> in this Owner's Report during the pe	hission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by <u>158787</u> have, inspected the components described and <u>7/19/94</u> to <u>4/20/96</u> , and state the
or Province of <u>TENN</u> <u>HARTFORD</u> <u>CT</u> in this Owner's Report during the pe to the best of my knowledge and belie	hission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by <u>HSATAT</u> have, inspected the components described od <u>7/19/94</u> to <u>4/20/96</u> , and state th t, the Owner has performed examinations and taken corrective measures described in the
or Province of <u>TEWN</u> <u>HARTFORD</u> <u>CT</u> in this Owner's Report during the pe to the best of my knowledge and belie Owner's Report in accordance with the By signing this certificate neither the examinations and corrective measures shall be liable in any manner for any p	hission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by <u>158787</u> have, inspected the components described and <u>7/19/94</u> to <u>4/20/96</u> , and state the
or Province of <u>TEWN</u> <u>HARTFORD</u> <u>CT</u> in this Owner's Report during the pe to the best of my knowledge and belie Owner's Report in accordance with the By signing this certificate neither the examinations and corrective measures	hission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by <u>HSBLET</u> have, inspected the components described od <u>7/19/99</u> to <u>4/20/96</u> , and state th t, the Owner has performed examinations and taken corrective measures described in the equirements of the ASME Code, Section XI. e Inspector nor his employer makes any warranty, expressed or implied, concerning the described in this Owner's Report. Furthermore, neither the Inspector nor his employ

Page 17 of 218

-

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1.	Owner <u>TENNESSEE VALLEY_AUTHORITY</u> 1101 Market St.Name	DateJune_11,_1996`
	Chattanooga, TN 37402-2801	Sheet of 1
2.	Plant Browns Ferry Nuclear Plant Name	Unit2
	P.O. Box/2000; Decatur, AL 35609-2000 Address	Work Order 94-19297-02 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by Name	Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Expiration DateN/A
4.	Identification of System System 01, Main Steam	•
5.	(a) Applicable Construction Code ASME Sec. III 19 83 Edition,	Summer 1983 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86____

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line	Anchor/	F7260 1 1	N/A	2-FCV-001 -0168	1995	Replaced	No
A Drain Valve	Darling	EZ362-1-1	N/A		1335	Repraced	10
Pipe, 2" Sch. 160	U.S. Steel Group	۰ N/A	N/A	Heat No. BO8587	N/A	Replaced	No
		· ·	L.	i -			`
· · · · · · · · · · · · · · · · · · ·		4 4					
		· · · · · · · · · · · · · · · · · · ·					
ц				nd associate			oth

7. Description of Work items are ASME Code Class 2 equivalent components.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A F

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

(12/82)

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

Page 18 of 218

# 9. Remarks <u>ASME Sec. XI Code Case N-416-1 was utilized so that a system leakage test</u> Applicable Manufacturer's Data Reports to be attached <u>could be performed in lieu of a hydrostatic pressure test (use of Code Case</u> <u>N-416-1 permitted via NRC approval of Request for Relief SPT-8; ref. RIMS L44</u> 950821 004).

	CERTIFICATE OF COMPLIANC		
	ts made in the report are correct and this	replacement conforms to	the rules of the
ASME Code, Section XI.	•		r e
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A Expirat	ion Date <u>N/A</u>	
i ID: I STille	, System Engineer Da	June 11	
Signed 2020 Owper or Owner's Designee,	Titie		
		·····	······
	CERTIFICATE OF INSERVICE INS	SPECTION	
	mission issued by the National Board of I		ors and the State
pr Province of TENN	and employed by <del>H5B_Z_E</del>		of
HARTFORD, CT		have inspected the comp	
in this Owner's Report during the per-			_, and state that
	of, the Owner has performed examination requirements of the ASME Code, Section		described in this
	he Inspector nor his employer makes an		t concerning the
	described in this Owner's Report. Fur		
	ersonal injury or property damage or a lo		
nspection.		,	
All roll		1.212 "AN"7	. 4
Inspector's Signature	Commissions ///	onal Board, State, Province, and	Endorsements
Λ		-	
Date Hune 25	19 <u>96</u>		æ
		· · · · · · · · · · · · · · · · · · ·	: 
•		۰ ۱	
* • · · · · · · ·	•	•	
•	Page 19 of 218	x * •	+
	· · · · · · · · · · · · · · · · · · ·		<del>50</del> -
	x.	,	
- 1 #	16.		

	As Required by the Provisions of the A	ASME Code Section XI -
1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. ^{Nome} Chattanooga, TN 37402-2801	Date June 12, 1996
2.	Plant Browns Ferry Nuclear Plant Name	Unit2
	P.O. Box 2000; Decatur, AL 35609-2000	<u>Work Order 95-01268-00</u> Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA Name	Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>
	<u>P.O. Box 2000; Decatur, AL 35609-2000</u> Address	Expiration DateN/A
4.	Identification of System System 01, Main Steam	<u>.</u>
_، 5.	(a) Applicable Construction Code <u>ASME Sec. III</u> 19 <u>68</u> Edition, (b) Applicable Edition of Section XI Utilized for Repairs or Replacement	Summer 1970 Addenda, N/A Code Case s 19.86

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No,	Other Identification	Year Bullt	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line B Relief Valve	Target Rock Corp.	TVA S/N 1033	N/A	2-PCV-001 -0018	N/A	Replaced	No
	<b>x</b> 6 - 6 <b>x</b>		- · ·	e.			
						e.	•
	•,					'	
				•			
7 Description of Work	Replaced (ther	n) existing p spare pilot	ilot stage as stage assembl	ssembly S/N 1079 Ly S/N 1070; th	) at MSR Ls MSRV	V 2-PCV-001-0 is an ASME Co	018 de

Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure psi Test Temp.______ F

Electric Purchase Order No. 205-AJ600

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 * and as amended by additional quality assurance and design requirements contained within General

Page 20 of 218

9. Remarks <u>Due to suspected leakage through the pilot valve (as evidenced by elevated MSRV tailpipe</u> Applicable Manufacturer's Data Reports to be attached

temperatures), BEN elected to replace the pilot stage assembly on 2-PCV-001-0018 midway through the Unit 2, Cycle 8 operating cycle. Spare pilot stage assembly S/N 1070 had been as-left setpoint tested per surveillance instruction 0-SI-4.6.D.1, Bench Test Relief Valves, following removal from MSRV 2-PCV-001-0022 position during the Unit 2, Cycle 6 operating cycle (ref. WO #92-47528-00). Once installed, 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test, was performed prior to return to service for verifying valve operability.

١.

	made in the report are o	F COMPLIANCE correct and this <u>replacemen</u> repair or replace	t conforms to the	rules of the
SME Code, Section XI.	*	·	in one	•
pe Code Symbol Stamp		N/A		
ertificate of Authorization No.	N/A	Expiration Date	N/A	
gned Hills	, System En	gineer Date June		. 19 <u>.96</u>
•				
the undersigned, holding a valid commi			ure Vessel Inspectors	and the State
		SBIET		
HARTFORD, CT		have _insp		
this Owner's Report during the period	od <u>3/3/95</u>	to4/20/	ai	and state that
the best of my knowledge and belief,		ned examinations and taken co	orrective measures de	scribed in this
wner's Report in accordance with the re	quirements of the ASM	E Code, Section XI.		
By signing this certificate neither the	Inspector nor his empl	over makes any warranty, ex	pressed or implied, o	oncerning the
aminations and corrective measures d				
all be liable in any manner for any per				
pection,				
au la	1		ling the second	
	Comm	issions TN 3135	EN	
Inspector's Signature		National Board, Sta	te, Province, and End	forsements
11e Aune 27 19	96			

Page <u>21</u> of <u>218</u>

s

1.	Owner TENNESSEE VALLEY AUTHORITY	DateJune 9, 1996
	1101 Market St.Name Chattanooga, TN 37402-2801	Sheetof
2.	Plant Browns Ferry Nuclear Plant	Unit2
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 95-01268-02 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA	Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>
	P.O. Box 2000; Decatur, AL 35609-2000	Expiration DateN/A
4.	Identification of System System 01, Main Steam	n
		Summon 1970 Adda N/A Casta Casta

5. (a) Applicable Construction Code <u>ASME.Sec. III</u> 19.68 Edition, <u>Summer 1970</u> Addenda, <u>N/A</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>86</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer `Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
Main Steam Line	Target Rock	TVA S/N	1 ¹ -	2-PCV-001				
D Relief Valve	Corp.	1015	<u>N/A</u>		N/A	Replaced	No	
	· · · · ·	а. н						
							•	
· · · ·	ь. к		+				1	
				•				
Replaced (then) existing pilot stage assembly S/N 1015 at 2-PCV-001-0041 position 7. Description of Work with spare pilot stage assembly S/N 1019; this MSRV is an ASME Code Class 1								
equivalent component.								
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressurepsi Test Temp°F								

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page <u>22</u> of <u>218</u>

 $\mathbf{v}$ 

9. Remarks Due to suspected leakage through the pilot valve (as evidenced by elevated Applicable Manufacturer's Data Reports to be attached

<u>MSRV tailpipe temperatures</u>), BFN elected to replace the pilot stage assembly on 2-PCV-001-0041 midway through the Unit 2, Cycle 8 operating cycle. Spare pilot stage assembly S/N 1019 had previously been refurbished and as-left setpoint tested per WO #94-09673-03 prior to installation at 2-PCV-001-0041. Surveillance instruction 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test, was performed prior to return to service for verifying valve operability.

We certify that the stateme ASME Code, Section XI.		OF COMPLIANCE e correct and this <u>replacemen</u> repair or replac	Conforms to the rules of the
Type Code Symbol Stamp		N/A	
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed Wills Wills Owner or Owner's Designed	off, System I , Title	Engineer Date Jun	<u>19 96 , 19 96 </u>
I, the undersigned, holding a valid con or Province of <u>FFNN</u> <u>HARTFORD</u> <u>CT</u> in this Owner's Report during the p to the best of my knowledge and be	nmission issued by the N and employed by period <i>2/2/95</i>	HSBZEThave inst have inst to	pected the components described
Owner's Report in accordance with the By signing this certificate neither examinations and corrective measure shall be liable in any manner for any inspection.	the Inspector nor his er is described in this Own	nployer makes any warranty, ex per's Report. Furthermore, neith	
Inspector's Signatu	Con	nmissions_ <u>TM3/3.5</u> National Board, Sta	te, Province, and Endorsements

Page 23 of 218

FORM NIS-2 OWNER'S REPORT FOR	REPAIRS OR REPLACEMENTS
As Required by the Provisions of	the ASME Code Section XI

1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. ^{Name}	Date June 12, 1996
	<u>Chattanooga, TN 37402</u>	Sheet
2.	Plant Browns Ferry Nuclear Plant Name	Unit2
	<u>P.O. Box 2000; Decatur, AL_35609-2000</u> Address	Work Order 95-01268-04 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA Name	Type Code Symbol StampN/A Authorization NoN/A
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Expiration DateN/A
4.	Identification of System System 01, Main Steam	
<b>5</b> .	<ul> <li>(a) Applicable Construction Code <u>ASME Sec. III</u> <u>19</u> <u>68</u> Edition,</li> <li>(b) Applicable Edition of Section XI Utilized for Repairs or Replacement.</li> </ul>	

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component '	Name of Manufacturer	۰۰۰۰ Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repairèd, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line D Relief Valve	Target Rock Corp.	TVA S/N. 1084	N/A	2-PCV-001 -0042	N/A	Replaced	No
	e -			•		,	
		4				•	2
- ¥							
1							

 Replaced (then) existing pilot stage assembly S/N 1032 at MSRV 2-PCV-001-0042
 7. Description of Work <u>position with spare pilot stage assembly S/N 1029; this MSRV is an ASME Code</u> Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure_____psi Test Temp._____°F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 24 of 218

#### 9. Remarks Due to suspected leakage through the pilot valve (as evidenced by elevated MSRV tailpipe Applicable Manufacturer's Data Reports to be attached

temperatures), BFN elected to replace the pilot stage assembly on 2-PCV-001-0042 midway through the Unit 2, Cycle 8 operating cycle. Spare pilot stage assembly S/N 1029 had been as-left setpoint tested per surveillance instruction 0-SI-4.6.D.1, Bench Test Relief Valves, following removal from MSRV 2-PCV-001-0180 position during the Unit 2, Cycle 7 outage (ref. WO #94-10700-00). Once installed, 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test, was performed prior to return to service for verifying valve operability.

ASME Code, Section XI.  Type Code Symbol StampN/A  Certificate of Authorization No,N/A  SignedN/A  Expiration DateN  SignedN/A  Expiration DateN  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel I  or Province of and employed bySBZ &Z  in this Owner's Report during the period	ns to the rules of the
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N</u> Signed <u>N/A</u> , <u>System Engineer</u> <u>Date</u> <u>VIALE 12</u> <u>Owner or Owner's Designee, Title</u> <u>CERTIFICATE OF INSERVICE INSPECTION</u> I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel I or Province of <u>TENN</u> and employed by <u>IFSATET</u> have inspected the in this Owner's Report during the period <u>3/3/4.5</u> to <u>IfAC/4.6</u> to the best of my knowledge and belief, the Owner has performed examinations and taken corrective me Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or i paraminations and corrective measures described in this Owner's Report. Furthermore, neither the Insp shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from inspection.	
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N</u> Signed <u>N/A</u> , <u>System Engineer</u> <u>Date</u> <u>VIALE 12</u> <u>Owner or Owner's Designee, Title</u> <u>CERTIFICATE OF INSERVICE INSPECTION</u> I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel I or Province of <u>TEMM</u> and employed by <u>IFSAZET</u> have inspected the in this Owner's Report during the period <u>3/3/455</u> to <u>H/20/456</u> to the best of my knowledge and belief, the Owner has performed examinations and taken corrective me Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or i boxaminations and corrective measures described in this Owner's Report. Furthermore, neither the Insp thall be liable in any manner for any personal injury or property damage or a loss of any kind arising from inspection.	
Signed $A_{A}$ $A_{A}$ $A_{A}$ , System Engineer Date $A_{A}$	
Signed $A_{A}$ , System Engineer Date $A_{A}$ ,	Α
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel I r Province of $\underline{TFNN}$ and employed by $\underline{IFSBPEP}$ have inspected the n this Owner's Report during the period $\underline{3/3/45}$ to $\underline{4/30/46}$ to $\underline{4/30/46}$ to the best of my knowledge and belief, the Owner has performed examinations and taken corrective me owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or i examinations and corrective measures described in this Owner's Report. Furthermore, neither the Insp hall be liable in any manner for any personal injury or property damage or a loss of any kind arising from aspection.	, 19 <u>.96</u>
have inspected the have inspected to have inspected to have inspected to have inspected to have inspected the have inspected the have inspected to have inspected to have inspected to have have inspected to have inspected to have inspected to have inspected to have inspected in this Owner's Report. Furthermore, neither the Inspection, have inspection.	-
this Owner's Report during the period $3/3/4.5$ to $4/30/4.6$ to the best of my knowledge and belief, the Owner has performed examinations and taken corrective me owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or in examinations and corrective measures described in this Owner's Report. Furthermore, neither the Insp all be liable in any manner for any personal injury or property damage or a loss of any kind arising from aspection.	
the best of my knowledge and belief, the Owner has performed examinations and taken corrective me wher's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or i kaminations and corrective measures described in this Owner's Report. Furthermore, neither the Insp call be liable in any manner for any personal injury or property damage or a loss of any kind arising from appection.	omponents described
wher's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or i caminations and corrective measures described in this Owner's Report. Furthermore, neither the Insp ball be liable in any manner for any personal injury or property damage or a loss of any kind arising from aspection.	•
caminations and corrective measures described in this Owner's Report. Furthermore, neither the Insp sall be liable in any manner for any personal injury or property damage or a loss of any kind arising from spection.	
aall be liable in any manner for any personal injury or property damage or a loss of any kind arising from appection.	
spection.	plied, concerning the
A.L. And	ctor nor his employer
Inspector's Signature National Board, State, Province	ctor nor his employer
	ctor nor his employer or connected with this
	ctor nor his employer or connected with this

Page 25 of 218

1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. Name	Date May 18, 1996
	Chattanooga, TN 37402-2801	Sheet of
2.	Address Plant Browns Ferry Nuclear Plant Name	^ Unit2
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Work Order 95-17147-00 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA Name	Type Code Symbol Stamp       N/A         Authorization No.       N/A
	P.O. Box 2000; Decatur, AL 35609-2000	Expiration DateN/A
4.	Identification of System System 01, Main S	Steam
5.	<ul> <li>(a) Applicable Construction Code <u>ASME Sec. III</u> 19 <u>68</u></li> <li>(b) Applicable Edition of Section XI Utilized for Repairs or Replaced</li> </ul>	tion, <u>Summer 1970</u> Addenda, <u>N/A</u> Code Case ments 19 <u>86</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of f Component	Name of Mańufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam ·	Target.	TVA S/N		2-PCV-001	•		
Line B Relief	Rock Corp.	1070	<u>N/A</u>	0022	<u>N/A</u>	Replaced_	No
Valve	se tin fin	* #	: :	μ •			
	2		4 	•			
ر البر ب البر <b>ب</b> ر ا	<b>∉</b> 1	• +14 V*					
1		1		•			
Installed newspilot stage assembly S/N 1232 in place of (then) 7. Description of Work_existing pilot stage assembly S/N 1076 on MSRV 2-PCV-001-0022;							
	the MSRV is an ASME Code Class 1 equivalent component.						
B. Tests Conducted: Hydrostatic Preumatic Nominal Operating Pressure X Other Pressure <u>N/A</u> psi Test Temp. <u>N/A</u> °F							

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 * and as amended by additioanl quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 26 of 218

9.	Remarks Pilot stage assembly S/N 1232 was setpoint tested at Wyle Lab per
	Applicable Manufacturer's Data Reports to be attached
	surveillance instruction 0-SI-4.6.D.1, Bench Test Relief Valves. After instal-
	lation at 2-PCV-001-0022, the MSRV was pressure tested in accordance with the
	Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other testing
	performed to verify valve operability prior to return to service included test
	2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test.
	· · ·
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the
Ľ	ASME Code, Section XI. ' repair or replacement
	Type Code Symbol StampN/A
	Type Code Symbol Stamp
	Certificate of Authorization No. N/A Expiration Date N/A
	Certificate of Authorization No.
	Signed Hillert, System Engineer Date MAY 31 1996
l	Owney or Owner Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boilar and Pressure Vessel Inspectors and the State
	TENN, HEPIENASER BIG. THERE STARS, CO.

I, the undersigned, holding a valid commission issued by the National F or Province of <u>FNN</u> . and employed by <u>HERIE</u>	Board of Boiler and Pressure Vessel Inspectors and the State
HAUFORD, CONNU	have inspected the components described
in this Owner's Report during the period	to $(a - 4 - 9)(a)$ , and state that
to the best of my knowledge and belief, the Owner has performed ex	caminations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Cod	~
Du singing shis southings gaishay the lowestern way by southings	

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer

shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection, 9635 -TN . FI- N-TS National Board, State, Province, and Endorsements . 5. Commissions. Inspector's Signature <u>1996</u> (0 - 4)Date

Page 27 of 218

1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. ^{Name}	Date June 8, 1996
	Chattanooga, TN 37402-2801	Sheet of
2.	Plant Browns Ferry Nüclear Plant Name	Unit2
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 95-17147-01 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA Name	Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Expiration Date <u>N/A</u>
4.	Identification of System System 01, Main Steam	
5.	(a) Applicable Construction Code ASME Sec. III 1968 Edition.	Summer 1970 Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86

" Name of Component	, Name of Manufacturer	Manufacturer Serial No.	National Board No,	Other Identification	' Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line C Relief Valve	Target Rock Corp.	TVA S/N 1063	N/A	2-PCV-001 -0034	<u>N/A</u>	Replaced	No
							•
1		÷	5	· · · · · · · · · · · · · · · · · · ·			
	jî.				,		

Replaced pilot body, stabilizer, pilot disc, and spherical-collar of pilot stage 7. Description of Work <u>assembly S/N 1060 which was then used to replace pilot stage assembly S/N 1033 at</u> 2-PCV-001-0034 position; this MSRV is an ASME Code Class 1 equivalent component. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A °F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 28 of 218

9. Remarks <u>Following refurbishment</u>, pilot stage assembly S/N 1060 was as-left setpoint tested at Wyle Applicable Manufacturer's Data Reports to be attached

Lab per surveillance instruction O-SI-4.6.D.1, Bench Test Relief Valves. Pilot stage assembly S/N 1060 was then installed at the 2-PCV-001-0034 position and subsequently pressure tested in accordance with the Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other testing performed to verify valve operability prior to return to service included test 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test. PM work order #95-10359-00 documented the removal and asfound setpoint setting of pilot stage assembly S/N 1033.

	CERTIFICATE OF COMPL		н — Р. "		
We certify that the statements mad	In the report are correct and		onforms to the rules of the		
ASME Code, Section XI.					
•			-		
Type Code Symbol Stamp	N/A				
Certificate of Authorization No.	<u>N/A</u> Ex	piration Date	N/A		
The shing	-	· /			
Signed Halles Allbert	, System Engineer	_DateDate	<u> </u>		
Owner or Owner's Designee, Title	4°				
	· · · · · · · · · · · · · · · · · · ·				
· CE	RTIFICATE OF INSERVIC	E INSPECTION			
I, the undersigned, holding a valid commission	issued by the National Boar	d of Boiler and Pressure Ve	ssel Inspectors and the State		
or Province of TENNand	employed by H-SB	ZE <u>Z</u>	of		
<u> </u>			the components described		
in this Owner's Report during the period	11/18/95		, and state that		
to the best of my knowledge and belief, the		nations and taken correction	ve measures described in this		
Owner's Report in accordance with the requir	ments of the ASME Code, S	ection XI.			
By signing this certificate neither the Insp			t or implied, concerning the		
examinations and corrective measures descri					
shall be liable in any manner for sny persona	-	•			
Inspection,					
All - I	1				
/Mont Tida	Commissions	TN 3135 7	V"Z		
Inspector's Signature		TV3135 National Board, State, Pro	vince, and Endorsements		
$\hat{D}$		•			
Date June 21 19 96					
	. <u> </u>				
	· · · ·		<u> </u>		
· .		,			
	- 20 -	). <b>10</b>	14		
· · ·	Page: 29_of_2	.10	•		

;

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLA	CEMENTS
As Required by the Provisions of the ASME Code Section	n XI

1.	Owner TENNESSEE VALLEY AUTHORITY	DateJune_8, 1996
	1101 Market St. Name	
	Chattanooga, TN 37402-2801	Sheet1 of1
2.	Plant <u>Browns Ferry Nuclear Plant</u> Name	Unit2
	P.O. Box 2000; Decatur, AL 35609-2000 Address	<u>Work Order 95-17147-02</u> Repair Organization P.O. No., Job No., etc.
3.	Work Performed byName	Type Code Symbol StampN/A Authorization NoN/A
	<u>P.O. Box 2000; Decatur, AL 35609-2000</u> Address	Expiration DateN/A
4.	Identification of System System 01, Main Steam	
e	(a) Applicable Construction Code ASME Sec. III 19 68 Edition	Summer 1970 Addenda N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86

6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	, Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
	Main Steam Line C Relief Valve	Target Rock Corp.	TVA S/N 1020	N/A	2-PCV-001 -0031	N/A	Replaced	No
•								
				A			1	

Replaced pilot body assembly, stabilizer, and pilot disc of pilot stage assembly 7. Description of Work <u>S/N 1031 which was then used to replace pilot stage assembly S/N 1020 at 2-PCV-001</u> -0031 position; this MSRV is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A °F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 30 of 218

# 9. Remarks Following refurbishment, pilot stage assembly S/N 1031 was as-left setpoint tested at Wyle

Applicable Manufacturer's Data Reports to be attached Lab per surveillance instruction O-SI-4.6.D.1, Bench Test Relief Valves. Pilot stage assembly S/N 1031 was then installed at the 2-PCV-001-0031 position and subsequently pressure tested in accordance with the Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other testing performed to verify valve operability prior to return to service included test 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test. PM work order # 95-21548-00 documented the removal and asfound setpoint setting of pilot stage assembly S/N 1020.

We certify that the stateme ASME Code, Section XI.	CERTIFICATE OF nts made in the report are cc	monlogoment	_ conforms to the rules of the ent
Type Code Symbol Stamp		N/A	,
Certificate of Authorization No Signed Owner or Owner's Designee	lest. System Eng	Expiration Date	N/A 8, 19_96
I, the undersigned, holding a valid cor or Province of <u>TEVN</u> <u>HARTFORD</u> CT in this Owner's Report during the p	nmission issued by the Natio	SBIEI	of
n this Owner's Report during the p to the best of my knowledge and bel Dwner's Report in accordance with th By signing this certificate neither examinations and corrective measure shall be liable in any manner for any nspection.	ief, the Owner has performe e requirements of the ASME the Inspector nor his emplo s described in this Owner's	ed examinations and taken corre Code, Section XI. yer makes any warranty, expre Report. Furthermore, neither	ective measures described in this ssed or implied, concerning the the inspector nor his employer
Date		isions <u>TN 3135</u> National Board, State,	ジェン Province, and Endorsements

Page 31 of 218

_		
1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. Name Chattanooga, TN 37402-2801	DateJune 6, 1996
	Address	
2.	Plant Browns Ferry Nuclear Plant	Unit2
		Work Order 95-17147-03
	P.O. Box 2000; Decatur, AL 35609-2000	
	Address	Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA	Type Code Symbol Stamp N/A
	Name	Authorization No N/A
	P.O. Box 2000; Decatur, AL 35609-2000	Expiration DateN/A
	Address	
4.	Identification of System System 01, Main Steam	
-	(a) Applicable Construction Code ASME Sec. III 1968 Edition	ion Summer 1970 Addenda N/A Code Case
ູວ,	(a) Applicable construction code	

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19.86

\$

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	∖ Name of Maņufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, * Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line	Target Rock	TVA S/N		2-PCV-001		w	Ì
D Relief Valve	Corp.	1073	<u>N/A</u>	-0180	<u>N/A^t</u>	Replaced_	No
	4 V ·	••• •		I			
		(b ⁻¹	iin a				•
	ı	• • پ • •	ŀ				
·····				•			
7. Description of Work	Installed refu S/N 1073) at 1 equivalent cor	MSRV 2-PCV-00	e pilot assen 1-0180 locati	bly (S/N 1071) ion; the MSRV is	and mains an ASM	n body assemb E Code Class	ly (TVA 1
8. Tests Conducted:	•	- neumatic 🔲 🛛 No	ominal Operating Test Temp.		ъ ¥		

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8% in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 32 of 218

The previously existing MSRV main body assembly and pilot stage assembly at 2-PCV-001-0180 9. Remarks both had TVA serial number 1014. Removal of pilot stage assembly S/N 1014 and as-found Applicable Manufacturer's Data Reports to be attached

<u>setpoint testing is documented in WO 95-10365-00.</u> Pilot stage assembly S/N 1071 was as-left setpoint tested at Wyle Lab per surveillance instruction O-SI-4.6.D.1, Bench Test Relief Valves. <u>After installation at 2-PCV-001-0180 location</u>, the MSRV was system pressure tested in accordance with the Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other testing performed to verify valve operability prior to return to service included test 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test. MSRV main body assembly S/N 1073 had previously been refurbished per WO 92-65561-00.

We certify that the statements m ASME Code, Section XI.	CERTIFICATE OF ade in the report are co	prrect and this rep	lacementco or replacement	onforms to the rules of the					
Type Code Symbol Stamp		N/A							
		Expiration Da		N/A					
Signed Life Owner's Designee, Title	, System Eng	ineer Date	JUNE 6	, 19 <u>96</u>					
I, the undersigned, holding a valid commiss or Province of <u>TENN</u> <u>HAATFORD</u> , CT	ind employed by	onal Board of Boiler <i>585527</i>	and Pressure Ves	the components described					
<u>HATFORD, CT</u> in this Owner's Report during the period <u>12/1/95</u> to <u>430/96</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.									
Date		ssionsNational B	3.5 Z oard, State, Prov	Vince, and Endorsements					

Page 33 of 218

1.	Owner TENNESSEE VALLEY AUTHORITY	DateMay 19, 1996
	1101 Market St. Name	
	Chattanooga, TN 37402-2801	
	Address	
2.	Plant Browns Ferry Nuclear Plant	Unit2
	Name	
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 95-17147-04
	Address	Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA	Type Code Symbol Stamp N/A
	Name	Authorization No. N/A
	P.O. Box 2000; Decatur, AL 35609-2000	N/A
	Address	
4.	Identification of System System 01, Main	Steam
[~] 5.	(a) Applicable Construction Code <u>ASME_Sec. III</u> 19 <u>68</u> _E	dition, <u>Summer 1970_</u> Addenda, <u>N/A</u> Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	C. Name of Manufacturer	Name of Manufacturer Board		Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam	Target "	TVA S/N	4 ¹⁰	2-PCV-001			
Line B Relief	Rock Corp.	1023	<u>N/A</u>	0019	<u>N/A</u>	<u>Réplaced</u>	No
Valve	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, A.	й -		r 4	
			e de la composición d	1 8			•
				-			
· · ·	Installéd	spare pilo	t stage as	sembly (S/N	1072)	and spare	MSRV

7. Description of Work <u>main body assembly (S/N 1023) at MSRV 2-PCV-001-0019 location;</u> the MSRV is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A °F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 * and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 34 of 218

X,

••	,								Reports to				
9.	Remarks	at	2-PCV-001-	-0019	both	had	TVA	serial	number	1022.	Pilot	stage	assembly
		The	e previous]	.y ext	isting	; MSR	LV ma	in body	y asseml	bly and	pilot	stage	assembly

S/N 1072 was setpoint tested at Wyle Lab per surveillance instruction O-SI-4.6.D.1, Bench Test Relief Valves. After installation at 2-PCV-001-0019, the MSRV was pressure tested in accordance with the Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other testing performed to verify valve operability prior to return to service included test 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test.

4.-

.

	IFICATE OF COMPLIANCE report are correct and this <u>replacement</u> conforms to the rules of the repair or replacement
Type Code Symbol Stamp	N/A
Certificate of Authorization NoN/A	Expiration Date <u>N/A</u> ystem Engineer Date <u>May 19</u> , 19 <u>96</u>
	CATE OF INSERVICE INSPECTION
or Province of <u>TENN</u> . and employ <u>HHDIFOR</u> , <u>CON</u> in this Owner's Report during the period <u>JD</u> to the best of my knowledge and belief, the Owner Owner's Report in accordance with the requirements By signing this certificate neither the Inspector n examinations and corrective measures described in	2-71-95 to $10-3-916$ , and state that has performed examinations and taken corrective measures described in this '
Date	• S
Page	e_ <u>35. of 218_</u>

Ň

FORM NIS-2 OWNER'S REPORT FOR	REPAIRS C	OR REPLACEMENTS
As Required by the Provisions of	the ASME C	ode Section XI

1. 0	wner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. ^{Nome}	Date May 18, 1996
-	Chattanooga, TN 37402-2801	Sheet of
2. PI	lant <u>Browns Ferry Nuclear Plant</u> Name	Unit2
ъ <u>Р</u>	0.0. Box 2000; Decatur, AL 35609-2000 Addross	Work Order 95-17147-05 Repair Organization P.O. No., Job No., etc.
3. W	Vork Performed by TVA Name	Type Code Symbol StampN/A       Authorization NoN/A
<u>P</u>	.0. Box 2000; Decatur, AL 35609-2000 Address	Expiration Date <u>N/A</u>
	dentification of System System 01, Main Steam	Summer 1970 Adduct * N/A

5. (a) Applicable Construction Code <u>ASME Sec. III</u>19<u>68</u> Edition, <u>Summer 1970</u> Addenda, <u>N/A</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>86</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, * Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line A Relief	Target Rock Corp.	TVA S/N 1016	N/A	2-PCV-001 -0004	N/A	Replaced	No
Valve	y	(e 1 ≷		•• •			
			>				*
•		ta,	y _u Be	,		F	

7. Description of Work existing pilot stage assembly S/N 1078 in place of (then)

the MSRV is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A °F

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

(12/82)

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

*and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 36 of 218

9. Remarks <u>Pilot stage assembly S/N 1078 was setpoint tested at Wyle Lab per</u> Applicable Manufacturer's Data Reports to be attached

surveillance instruction 0-SI-4.6.D.1, Bench Test Relief Valves. After installation at 2-PCV-001-0004, the MSRV was pressure tested in accordance with the Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other testing performed to verify valve operability prior to return to service included test 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test.

We certify that the statem ASME Code, Section XI.	nents made in the report are c	orrect and this <u>replacement</u> repair or replacement	conforms to the rules of the nt
	<b>^</b>		· *
Type Code Symbol Stamp	·····	N/A	· · · · · · · · · · · · · · · · · · ·
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed Julio	System En	gineer Date MAY 10	3, 19 <i>.96_</i>
	CERTIFICATE OF IN	SERVICE INSPECTION	
or Province of TENN.	ommission issued by the National Experimental Communication issued by the National Experimental Communication (Communication Communication	anal Board of Boiler and Pressure	TNEP FINS. CO. of
or Province of TENN. HEPTEDA	ommission issued by the National Stress of the State Stress of the	nal Board of Boiler and Pressure	TNSP. FINS. CD. of d the components described
or Province of TENN. HEPTEOA in this Owner's Report during the	ommission issued by the National Contract of t	Dnal Board of Boiler and Pressure IRTFORD STITT. BLP., have inspecte 5to(2-3-9(	TNSD. FINS. CD. of d the components described , and state that
I, the undersigned, holding a valid co or Province of <u>FANN</u> <u>HEPTEOA</u> in this Owner's Report during the to the best of my knowledge and b Owner's Report in accordance with	ommission issued by the National American Strategy and St	anal Board of Boiler and Pressure IRTFORD STITL BLP: have inspector 5to(2-3-9) red examinations and taken correct	TNSD. FINS. CD. of d the components described , and state that
or Province of <u>HEREDA</u> <u>HEREDA</u> in this Owner's Report during the to the best of my knowledge and b Owner's Report in accordance with By signing this certificate neithe	ommission issued by the Nationand employed by HE and employed by HE and employed by HE and employed by HE and employed by HE period 11-15-9 elief, the Owner has perform the requirements of the ASM or the Inspector nor his employed	bonal Board of Boiler and Pressure 17FOPOL 51771. B.P. have inspected 5 to CP - 3 - 9C red examinations and taken correct E Code, Section XI. over makes any warranty, expres	TNSD. FINS. CD. of d the components described 2, and state that tive measures described in this sed or implied, concerning the
or Province of <u>TENN</u> . <u>HEPIEOA</u> in this Owner's Report during the to the best of my knowledge and b Owner's Report in accordance with	ommission issued by the Nationand employed by HE period <u>11-15-9</u> elief, the Owner has perform the requirements of the ASM r the Inspector nor his employed res described in this Owner	bonal Board of Boiler and Pressure <b>APTFORM STREE</b> have inspecte bed examinations and taken correct E Code, Section XI. over makes any warranty, express s Report. Furthermore, neither t	TNSD. ENS. CD. of the components described and state that tive measures described in this sed or implied, concerning the he inspector nor his employer

Page 37 of 218

19<u>9</u>/c

6

Date

FORM NIS-2 OWNER'S REPORT FOR REPAI	RS OR REPLACEMENTS
As Required by the Provisions of the ASM	AE Code Section XI

1.	Owner TENNESSEE VALLEY AUTHORITY	DateJune 7, 1996
	1101 Market St.Name Chattanooga, TN 37402-2801 Address	Sheet of
2.	Plant Browns Ferry Nuclear Plant Name	Unit2
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Work Order 95-17147-06 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA Name	Type Code Symbol Stemp <u>N/A</u> Authorization No N/A
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Expiration Date <u>N/A</u>
4.	Identification of System <u>System 01, Main Steam</u>	- 4
5.	(a) Applicable Construction Code ASME Sec. III 19.68 Edition,	_Summer 1970_Addenda,N/ACode Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>86</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line A Relief Valve	Target Rock Corp.	TVA S/N 1021	N/A	2-PCV-001 -0005	N/A	Replaced	No
							•
÷							
	î,			•			

Replaced spherical-collar in spare pilot stage assembly S/N 1017 and then installed 7. Description of Work that pilot stage assembly in place of (then) existing pilot stage assembly S/N 1021 on MSRV 2-PCV-001-0005; the MSRV is an ASME Code Class 1 equivalent component.

	on $MSKV Z - PUV - 001 - 0005;$	The PORV IS all ASIL CODE GLAS
8. Tests Conducted:	Hydrostatic 🔲 Pneumatic 🗌	Nominal Operating Pressure 🔀
	Other Pressure N/A	_psi Test Temp. <u>N/A</u> °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8% in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 38 of 218

9. Remarks <u>Pilot stage assembly S/N 1017 was as-left setpoint tested at Wyle Lab per</u> Applicable Manufacturer's Data Reports to be attached

<u>surveillance instruction 0-SI-4.6.D.1, Bench Test Relief Valves. After</u> installation at 2-PCV-001-0005, the MSRV was pressure tested in accordance with <u>the Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other</u> testing performed to verify valve operability prior to return to service included <u>test 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test. PM Work Order</u> 95-10351-00 documented the removal and as-found setpoint setting of pilot stage assembly S/N 1021.

We certify that the statement ASME Code, Section XI.	CERTIFICATE OF s made in the report are co		ent conforms to the rules of the icement
Type Code Symbol Stamp		N/A	,
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signod - Sig	ritio	ineer Date Jun	<u>UE 7 , 19.96</u>
· · · · · · · · · · · · · · · · · · ·		SERVICE INSPECTION	
I, the undersigned, holding a valid comin or Province of TENN			ssure Vessel Inspectors and the State
<u>HARTFORD</u> , <u>CT</u> in this Owner's Report during the per	ind 11/15/95	have inhave in	spected the components described
to the best of my knowledge and belie	f, the Owner has performe	ed examinations and taken	
Owner's Report in accordance with the		*	
By signing this certificate neither the	e Inspector nor his emplo	yer makes any warranty, e	expressed or implied, concerning the

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

T<u>N si</u> commissions. Signature National Board, State, Province, and Endorsements 24 1976 Date

Page 39: of 218

-		
1	OwnerTENNESSEE_VALLEY_AUTHORITY	DateMay 18, 1996
••	1101 Market:St.Name	
	Chattanooga, TN 37402-2801	Sheet
	Address	
2.	Plant Browns Ferry Nuclear Plant	Unit2
	Name	
	P.O. Box 2000; Decatur, AL `35609-2000	Work Order 95-17147-07
	Address	Repair Organization P.O. No., Job No., etc.
2	Work Performed by TVA	Type Code Symbol StampN/A
	Name	Authorization NoN/A
	P.O. Box 2000, Decatur, AL 35609-2000	Expiration Date N/A
	Address	•
1	Identification of System System 01, Main Steam	
	· · · · · · · · · · · · · · · · · · ·	* .

5. (a) Applicable Construction Code <u>ASME Sec. III</u>19 <u>68</u> Edition, <u>Summer 1970</u> Addenda, <u>N/A</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>86</u>

6. Identification of Components Repaired or Replaced and Replacement Components

• Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repàired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main.Steam	Targetr.	TVA S/N	ч	2-PCV-001	•	t 1.	
Line B Relief_	Rock Corp.	1031	N/A	<u> </u>	N/A	Replaced	No
Valve	· .		۲ <b>۲</b>	1 t · · ·			
		ч					
	~ ~	n ³ 4	•	¥			>
			• -1 -7				
7. Description of Work	existing pi	lot stage	assembly S	embly S/N 10 /N 1069 on M	SRV 2-	PCV-001-00	then) 23;
	the MSRV is	an ASME C	ode Class	1 equivalent	compo	nent.	
	Hydrostatic Pr		ominal Operating	Pressure X N/A °F	4		

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8% in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and as amended by additional quality assurance and design requirements contained in General Electric Purchase Order No. 205-AJ600

Page 40 of 218

Ą.

	ITTOL SLAGE	assembly 5/M	1004 was s	erporne resteu	at myre hab per
9. Remarks	surveillanc	e instruction	0-SI-4.6.D	.1, Bench Test	Relief Valves. After

Applicable Manufacturer's Data Reports to be attached <u>installation at 2-PCV-001-0023</u>, the MSRV was pressure tested in accordance with the Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other <u>testing performed to verify valve operability prior to return to service</u> included test 2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test.

We certify that the statemen ASME Code, Section XI.		OF COMPLIANCE re correct and this <u>rep</u> air repair	olacement or replacement	nforms to the rules of th	• •
Type Code Symbol Stamp		N/A	<del></del>	",·	
Certificate of Authorization No.	N/A	Expiration D	at <del>o</del>	N/A	
Signed Hills J. A. Hill Owger or Owner 4 Designee,	, System	Engineer Date	<u> Мау 18</u>	, 19 <u>.96</u>	
HARIFOON			-	P. HING. CO.	
HARIFOOD n this Owner's Report during the per to the best of my knowledge and beli Dwner's Report in accordance with the By signing this certificate neither t examinations and corrective measures thall be liable in any manner for sny p nspection.	eriod <u>11 - 18</u> - lef, the Owner has perference requirements of the As the Inspector nor his en s described in this Own	95toto ormed examinations ar SME Code, Section XI, nployer makes any wa ner's Report, Furthern	have inspected to - 4 - 96 d taken corrective rranty, expressed hore, neither the	the components describ , and state t measures described in t or implied, concerning inspector nor his emplo	bed hat his the yer

1

1.	Owner TENNESSEE VALLEY AUTHORITY	Date May 18, 1996
	Chattanooga, TN 37402-2801	Sheet of1
	Address	
2.	Plant Browns Ferry Nuclear Plant	Unit 2
	Name	
	P.O. Box 2000; Decatur, AL 35609	<u>Work_Order_95-17147-08</u>
	Address	Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA	Type Code Symbol StampN/A
•	Name	Authorization No. N/A
	P.O. Box 2000; Decatur, AL 35609-2000	
	Address	
4.	Identification of System System 01, Main S	team
~		Edition Summer 1970 Addends* N/A Code Cete

- 5. (a) Applicable Construction Code <u>ASME Sec. III</u> 19.68 Edition, <u>Summer 1970</u> Addenda, <u>N/A</u> Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No,	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line A Relief	Target Rock Corp.	TVA S/N 1026	N/A	2-PCV-001 0179	N/A	Replaced	No
Valve	l.	4	· · · ·	n,			
Ξ,			\$1 ⁷				
4	r		,				t .
· · · · · · · · · · · · · · · · · · ·				ssembly S/N			

7. Description of Work <u>existing pilot stage assembly S/N 1026 on MSRV 2-PCV-001-0179;</u> the MSRV is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure

Other Pressure <u>N/A</u>psi Test Temp. <u>N/A</u>°F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and as amended by additioanl quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 42 of 218

9.	Remarks Pilot stage assembly S/N 1064 was setpoint tested at Wyle Lab per										
	Applicable Manufacturer's Data Reports to be attached										
	surveillance instruction O-SI-4.6.D.1, Bench Test Relief Valves. After instal-										
	lation at 2-PCV-001-0179, the MSRV was pressure tested in accordance with the										
	Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other testing										
	performed to verify valve operability prior to return to service included test										
	2-SI-4.6.D.2, Main Steam Relief Valves Manual Cycle Test.										

	CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp
(	Certificate of Authorization No N/A Expiration Date N/A
;	Signed Hills V. (Millert, System Engineer Date MAY 18, 1996
1	CERTIFICATE OF INSERVICE INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>FANL</u> and employed by <u>HERIFACL SITT</u> , <u>BLR</u> , <u>TNSP</u> <u>-1</u> <u>TNS</u> , <u>CD</u> , of <u>HERIFORL</u> <u>CONN</u> . have inspected the components described n this Owner's Report during the period <u>HI-TS-95</u> to <u>0-4-910</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Dwner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
5	Examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer that the liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. B. J. H. J. M. T. M.
0	Date (0-4, 1996)
	Page 43 of 218

-

1.	OwnerTENNESSEE VALLEY AUTHORITY	DateMay 18, 1996			
•••	1101 Market St.Name				
	Chattanooga, TN 37402-2801	Sheet <u>1</u> of <u>1</u>			
	Address				
2:	Plant Browns Ferry Nuclear Plant	Unit 2			
	Name				
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 95-17147-09			
	Address	Repair Organization P.O. No., Job No., etc.			
3.	Work Performed by TVA	Type Code Symbol StampN/A			
	Name	Authorization No N/A			
	P.O. Box 2000; Decatur; AL 35609-2000	Expiration DateN/A			
	Address				
.4.	Identification of System System 01, Main	Steam			
		*			

5. (a) Applicable Construction Code <u>ASME Sec. III 9 68</u> Edition, <u>Summer 1970</u> Addenda, <u>N/A</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>86</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam	Target .	TVA,S/N		2-PCV-001			
Line C Relief	Rock Corp.	1028	<u>N/A</u>	<u> </u>	<u>_N/A</u>	Replaced_	No
Valve	3			r X.g.		•	
		·	,				
		2.64	4. 4.				•

Installed spare pilot stage assembly S/N 1061 in place of (then) 7. Description of Work existing pilot stage assembly S/N 1028 on MSRV 2-PCV-001-0030;

# the MSRV is an ASME Code Class 1 equivalent component.

.8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp, N/A °F

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

. (1

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600

Page 44 of 218

9. Remarks <u>Pilot stage assembly 1061 was setpoint tested_at_Wyle_Lab_per_surveillanc</u>e Applicable Manufacturer's Data Reports to be attached

instruction O-SI-4.6.D.1, Bench Test Relief Valves. After installation at 2-PCV-001-0030, the MSRV was pressure tested in accordance with the Unit 2 reactor pressure vessel system leakage test 2-SI-3.3.1.A. Other testing performed to verify valve operability prior to return to service included test 2-SI-4.6.D.2, . Main Steam Relief Valves Manual Cycle Test.

We certify that the statements ASME Code, Section XI.	CERTIFICATE O s made in the report are o	correct and this <u>repla</u>	Cement conform	s to the rules of the
		-	•	
Type Code Symbol Stamp		N/A	×	· · · · · · · · · · · · · · · · · · ·
Certificate of Authorization No.	N/A	Expiration Date.	N/	/ <u>A</u>
Signert Julio Owner Or Owner Designee, T	ont, System English	gineer Date 7	YAY 18	, 19 <u>_96</u>
	CERTIFICATE OF II	NSERVICE INSPECTIO	N	
I, the undersigned, holding a valid comm				
or Province of TENN, HARTFORD				mponents described
in this Owner's Report during the peri	od 12-1-	95 (0-	4-96	, and state that
to the best of my knowledge and belief				
Owner's Report in accordance with the r	equirements of the ASM	E Code, Section XI.		
By signing this certificate neither the		•		
examinations and corrective measures of		- Ik		
shall be liable in any_manner for any pe inspection.	isonal injury or property	oamage of a loss of any	kind arising from 0	r connected with this
		0		
Inspector's Signature	Comm	nissions <u>9635-</u> National Boar	IN. H-	N-L
Inspector a Signature		National Boal	d, State, Province, e	,
Date $(0-4)$	96			
	/			
•				
	,			

Page 45 of 218

1

1.	Owner TENNESSEE VALLEY AUTHORITY	Date May 29, 1996
	1101 Market St. ^{Name}	Sheet
	Chattanooga, TN 37402-2801 Address	Sheet Of
2.	Plant Browns Ferry Nuclear Plant Name	Unit2
	P.O. Box 2000; Decatur, AL 35609-2000 Address	<u>Work_Order_95-017249-000</u> Repair Organization P.O. No., Job No., etc.
3.	Work Performed by	Type Code Symbol StampN/A Authorization NoN/A
	P.O. Box 2000; Decatur, AL 35609-2000	Expiration DateN/A
4.	Identification of System System 001, Main Steam	* p
5.	(a) Applicable Construction Code USAS B31.1.0 19 67 Edition,*	N/A Addenda, N/A Code Case
	(b) Applicable Edition of Section XI Utilized for Repairs or Replacements	s 19 <u>00</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Lines Outboard Drain	Velan Valve Corp.	N/A	N/A	2-FCV-001 -0056	N/A.	Replaced	No
Isolation	- ₁ , 1	) تو ^{عل} قان ما	÷				
			1				•
•		n Ala, Ra	9				
			-		·		
7. Description of Work		<b>•</b>		with wedge tak equivalent com		1-FCV-001-00	56;
8. Tests Conducted:	Hydrostatic Pr Other Pressure_		ominal Operating		'я Х п		
NOTE: Supplemention in items 1 three	NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) informa- tion 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						Informa- sheets is

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

tion 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.

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and as amended by additional quality assurance and design requirements contained within contract 66C31-90744

Page 46 of 218

				۹			
9. Rema	rks <u>Removal</u>	of the wedge	e from 1-FCV-	-001-0056 is do	cumented in WO	<u>95-017249-003.</u>	Tests

Applicable Manufacturer's Data Reports to be attached <u>conducted to meet ASME Sec. XI inservice test requirements prior to return to service include</u> 2-SI-3.2.10.A, Verification of Remote Position Indicators for Main Steam System Valves, <u>2-SI-4.7.A.2.g-3/le, Primary Containment Local Leak Rate Test - Main Steam Line Drain; Penetration</u> X-8, and 2-SI-4.7.D.1.a-1, Primary Containment Isolation Valve Operability Test.

			,	Υ.
Type Code Symbol Stamp		N/A		
Certificate of Authorization No.	N/A	Expiration I	Date <u>N/A</u>	
Signed Hallis	Bent, System Eng Title	gineer_Date	ПАУ ЗО	, 19 <u>96</u>
<u></u>	CERTIFICATE OF IN	ISERVICE INSPEC	TION	
, the undersigned, holding a valid com or Province of <u>TENN</u> .		1	•	of
n this Owner's Report during the pe	eriod <u>3/27/96</u>	to	have inspected the co	mponents described
o the best of my knowledge and beli Dwner's Report in accordance with the	•			ires described in this
By signing this certificate neither the xaminations and corrective measures hall be liable in any manner for any propertion.	s described in this Owner	's Report, Further	nore, neither the Inspect	or nor his employer
Inspector's Signatur	Comm	issions TN3	Board, State, Province, a	nd Endorsements
1. 14	10 96			

-----

	4
1. Owner <u>TENNESSEE VALLEY AUTHORITY</u>	Date <u>April 29, 1996</u>
1101 Market St. ^{Name}	
Chattanooga, TN 37402-2801 Address	Sheet of
2. Plant <u>Browns Ferry Nuclear Plant</u> Name	Unit2
P.O. Box 2000; Decatur, AL 35609-2000	Work Order 95-17262-00
Address	Repair Organization P.O. No., Job No., etc.
3. Work Performed by TVA	Type Code Symbol StampN/A
Name	Authorization NoN/A
<u>P.O. Box 2000; Decatur, AL 35609-2000</u> Address	Expiration Date <u>N/A</u>
4. Identification of System System 01, Main Steam	
5. (a) Applicable Construction Code USAS B31.1.0.19.67 Edition	n,N/AAddenda,N/ACode

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

as supplemented by requirements contained in contract 66060-90744 6. Identification of Components Repaired or Replaced and Replacement Components

Main Steam LinesVelan Valve2-FCV-001Inboard DrainCorporationN/AN/A-0055N/AIsolation	1	Replaced, or Replacement	Year Built	Other Identification	National Board No.	Manufacturer Serial No.	Name of Manufacturer	Name of Component
	No	Roplaced	NT / A			N/4		
Isolation		Replaced	A		N/A	N/A A	Corporation	
						F	•	Isolation
	·		s.	e e				
	·		7					· ·
						· · · · · · · · · · · · · · · · · · ·		· · · · ·

Replaced disc in valve 2-FCV-001-0055 with disc taken from 1-FCV-001-0055 (ref. 7. Description of Work W0 95-017262-002); this value is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic 🗌 Pneumatic 🗌 Nominal Operating Pressure 🔀 Other Pressure N/A psi Test Temp. N/A _°F

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

(12/82)

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

Page 48 of 218

The requirement of performing a system pressure test of IWA-5211(a), (b), or (c) following 9. Remarks the disasembly and reassembly of a mechanical joint was satisfied by the performance of Applicable Manufacturer's Data Reports to be attached

surveillance instruction 2-SI-3.3.1.A, ASME Section XI System Leakage Test of The Reactor Pressure Vessel and Associated Piping (ASME SectionIIII, Class 1). Other testing performed to verify valve operability before return to service included tests 2-SI-4.7.A.2.g-3/1e, Primary Containment Local Leak Rate Test Main Steam Line Drain: Penetration X-8, 2-SI-3.2.10.A, Verification of Remote Position Indicators for Main Steam System Valves, and 2-SI-4.7.D.1.a-1, Primary Containment Isolation Valve Operability Test.

We certify that the statements n		OF COMPLIANCE	entconforms to the rules of the
ASME Code, Section XI.		repair or replac	ement -
Type Code Symbol Stamp		N/A	
Certificate of Authorization No.			
Signed Hilles Owner or Owner Designee, Titl	/, System E	ngineer Date /////	<u>5 7 , 1996 </u>
	CERTIFICATE OF	INSERVICE INSPECTION	
, the undersigned, holding a valid commis	ssion issued by the Na	tional Board of Boiler and Pres	sure Vessel Inspectors and the State
Province of <u>FOPD</u>	and employed by	have inc	of
n this Owner's Report during the period	d 4/6/96	to 4/20	96 and state that
o the best of my knowledge and belief, t	the Owner has perfo	rmed examinations and taken o	
o the best of my knowledge and belief, t	the Owner has perfor quirements of the AS	rmed examinations and taken on ME Code, Section XI.	orrective measures described in this
o the best of my knowledge and belief, t Dwner's Report in accordance with the rec By signing this certificate neither the	the Owner has perfo quirements of the AS Inspector nor his em	rmed examinations and taken on ME Code, Section XI. ployer makes any warranty, ex	corrective measures described in this spressed or implied, concerning the
o the best of my knowledge and belief, a Dwner's Report in accordance with the rec By signing this certificate neither the xaminations and corrective measures de hall be liable in any manner for any perso	the Owner has perfo quirements of the AS Inspector nor his em scribed in this Owne	rmed examinations and taken on ME Code, Section XI. ployer makes any warranty, ex er's Report. Furthermore, neit	corrective measures described in this opressed or implied, concerning the her the inspector nor his employer
o the best of my knowledge and belief, a Dwner's Report in accordance with the rec By signing this certificate neither the xaminations and corrective measures de hall be liable in any manner for any perso	the Owner has perfo quirements of the AS Inspector nor his em scribed in this Owne	rmed examinations and taken on ME Code, Section XI. ployer makes any warranty, ex er's Report. Furthermore, neit	corrective measures described in this opressed or implied, concerning the her the inspector nor his employer
o the best of my knowledge and belief, a Dwner's Report in accordance with the rec By signing this certificate neither the xaminations and corrective measures de hall be liable in any manner for any perso	the Owner has perfo quirements of the AS Inspector nor his em scribed in this Owne onal injury or proper	rmed examinations and taken on ME Code, Section XI. ployer makes any warranty, ex er's Report. Furthermore, neit ty damage or a loss of any kind	corrective measures described in this expressed or implied, concerning the her the Inspector nor his employer arising from or connected with this
o the best of my knowledge and belief, a Dwner's Report in accordance with the rec By signing this certificate neither the xaminations and corrective measures de hall be liable in any manner for any perso	the Owner has perfo quirements of the AS Inspector nor his em scribed in this Owne onal injury or proper	rmed examinations and taken on ME Code, Section XI. ployer makes any warranty, ex er's Report. Furthermore, neit ty damage or a loss of any kind	corrective measures described in this expressed or implied, concerning the her the inspector nor his employer arising from or connected with this
or Province of <u>HARTFORD</u> , <u>CT</u> <u>HARTFORD</u> , <u>CT</u> In this Owner's Report during the period o the best of my knowledge and belief, to Dwner's Report in accordance with the rec By signing this certificate neither the Dynaminations and corrective measures de hall be liable in any manner for any person nspection. <u>Mart Add</u> Inspector's Signature Date	the Owner has perfo quirements of the AS Inspector nor his em scribed in this Owne onal injury or proper	rmed examinations and taken on ME Code, Section XI. ployer makes any warranty, ex er's Report. Furthermore, neit ty damage or a loss of any kind	corrective measures described in this opressed or implied, concerning the her the inspector nor his employer

Page 49 of 218

THIS PAGE INTENTIONALLY LEFT BLANK

Page 50 of 218



.

. / . .

• I.

1

(

\$

x

. •

A

THIS PAGE INTENTIONALLY LEFT BLANK

ŧ

Page <u>51 of 218</u>

۰ ۲

.

* * * * * * * * *

.

1. Owner_	TENNESSEE VALLEY AUTHORITY	DateJune 1, 1996
	Chattanooga, TN 37402-2801	Sheet of1
2, Plant	Address Browns Ferry Nuclear Plant	Unit2
P.O.	Name Box 2000; Decatur, AL 35609-2000	Work Order 95-17495-00
3. Work Pe	Address erformed by Name	Repair Organization P.O. No., Job No., etc. Type Code Symbol Stamp <u>N/A</u>
P.0.	Box 2000; Decatur, AL 35609-2000	Authorization No. N/A Expiration Date N/A
4. Identific	Addross cation of System System 01, Main Steam	
, 5. (a) App		tion, N/A Addenda, N/A Code Cannents 19 <u>86</u>

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line	Atwood &.	4 . <del>.</del> .	ŕ	2-FCV-001	,	P u w	
A Inboard Isol.	Morrill Co.	N/A	N/A	-0014	<u>  N/A</u>	Replaced	No
Valve			1				
				₽ 0.			•
	· · ·		· ·				
			· · · · · · · · · · · · · · · · · · ·				
L	Installed MSI	.V improvement	: modificatio	n kit on 2-FCV-	1 001-0014	4 (ref. DCN V.	36612A);

7. Description of Work this valve is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A °F

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

(12/82)

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

Page 52 of 218

		The requirement of performing a system pressure test following the disassembly and
9.	Remarks_	reassembly of a mechanical joint was satisfied by the performance of 2-SI-3.3.1.A, ASME
		Applicable Manufacturer's Data Reports to be attached

Section XI System Leakage Test of The Reactor Pressure Vessel and Associated Piping (ASME Sec. III, Class 1). Other testing performed to verify valve operability before return to service included tests 2-SI-4.7.A.2.i-3/1a, Primary Containment Local Leak Rate Test - Main Steam Line A: Penetration X-7A, 2-SI-4.7.D.1.a-3, Main Steam Isolation Valve Closure Time Test, and 2-SI-3.2.12, Verification of Fail Safe Position for Main Steam Isolation Valves.

· ·

	CERTIFICATE OF COMPLIANCE Ve certify that the statements made in the report are correct and this <u>replacem</u> e, Section XI.	entconforms to the rules of the acement
Type Code S	Symbol Stamp	
Signed	of Authorization NoN/AExpiration Date 	N/A N/F, 19 <u>.96</u>
or Province of in this Owner to the best of Owner's Repu- By signing examinations shall be liable inspection.	her's Report during the period $3-3(e-9(e))$ to $(e-5)$ of my knowledge and belief, the Owner has performed examinations and taker port in accordance with the requirements of the ASME Code, Section XI. Ing this certificate neither the Inspector nor his employer makes any warranty, has and corrective measures described in this Owner's Report. Furthermore, no ble in any manner for any personal injury or property damage or a loss of any kir	<u>TNSP. 4 TNS. CD.</u> of nspected the components described <u>96</u> , and state that a corrective measures described in this expressed or implied, concerning the either the Inspector nor his employer
Date	<u>6-5 1996</u>	<u>ـ</u>
•		
	Page <u>53 of 218</u>	

<u>.</u>
503–00 D. No., Job No., etc.
<u>N/A</u>
<u>N/A</u>
N/A
<u>N/A</u> Code Ca

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line C Inboard Isol.	Atwood & Morrill Co.	N/A C	N/A	2-FCV-001 0037	N/A	Replaced	No
Valve		• *	•	6 6			
· · · · ·	ĥ						

Replaced poppet and stem assembly (along with other miscellaneous parts) on 7. Description of Work_<u>2-FCV-001-0037</u>; this value is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8% in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) . This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

Page 54 of 218

		The require	ement	of performi	ing a syste	em pressure	e test i	following the	e disassembly and	1
9.	Remarks	reassembly	ofa	mechanical	joint was	satisfied	by the	performance	of 2-SI-3.3.1.A	, ASME
				Appli	cable Manufa	cturer's Data F	Reports to	be attached		

Section XI System Leakage Test of The Reactor Pressure Vessel and Associated Piping (ASME Sec. III, Class 1). Other testing performed to verify valve operability before return to service included tests 2-SI-4.7.A.2.i-3/lc, Primary Containment Local Leak Rate Test - Main Steam Line C: Penetration X-7C, 2-SI-4.7.D.1.a-3, Main Steam Isolation Valve Closure Time Test, and 2-SI-3.2.12, Verification of Fail Safe Position For Main Steam Isolation Valves.

ASME Code, Section XI.	ts made in the report are con	rect and this <u>replacemen</u> repair or replace	contorms to	the rules of the
Type Code Symbol Stamp	N	/A		
Certificate of Authorization No.	N/A	Expiration Date	N/A	
Signed Hills Owner or Owner's Designee,	, System Engi	neer_Date_JUNE	3	, 19 <u>.96</u>
	CERTIFICATE OF INSI			
		at Roard of Roller and Proces	re Vessel Inspec	tors and the State
	and employed by <u>HE</u> Q	LFORD. SIM. BI	L, TNSP.	957N5, CO of onents described
n this Owner's Report during the pe		<u>Fold. STMI. Bl</u> have insp <u>6</u>	C, TNSP. ected the comp 96	<b>GETNS</b> CO of onents described , and state that
I, the undersigned, holding a valid com or Province of <u>TENN</u> <u>HERIED DOL</u> in this Owner's Report during the pe to the best of my knowledge and beli Owner's Report in accordance with the	$\frac{1}{1}$ and employed by $\frac{1}{1}$ $\frac{1}{1}$ in $\frac{1}{2}$ in $\frac{1}{2$	have insp have insp b to examinations and taken co	C, TNSP. ected the comp 96	TTNS.CO.of onents described _, and state that
or Province of <u>TENN</u> <u>HEFITED Od.</u> in this Owner's Report during the pe to the best of my knowledge and beli Owner's Report in accordance with the By signing this certificate neither t		HEORE. SIMI BI have insp 6 to 6-5- examinations and taken co code, Section XI. er makes any warranty, exp	C. T.N.S.P. ected the comp 96 rrective measure pressed or implie	<u>HETNS CO</u> of onents described _, and state that s described in this d, concerning the
or Province of <u>TENN</u> <u>HERIFORD</u> , ( in this Owner's Report during the per- to the best of my knowledge and beli- Dwner's Report in accordance with the By signing this certificate neither t examinations and corrective measures		have insp have insp <u>b</u> to <u>b</u> examinations and taken co code, Section XI. er makes any warranty, exp Report. Furthermore, neith	C. T.N.S.P. ected the comp 96 rrective measure pressed or implie er the Inspector	<u>HETNS: CD</u> of onents described _, and state that s described in this d, concerning the nor his employer
or Province of <u>TENN</u> <u>HEITED Pd.</u> in this Owner's Report during the pe to the best of my knowledge and beli Owner's Report in accordance with the		have insp have insp <u>b</u> to <u>b</u> examinations and taken co code, Section XI. er makes any warranty, exp Report. Furthermore, neith	C. T.N.S.P. ected the comp 96 rrective measure pressed or implie er the Inspector	<u>HETNS: CD</u> of onents described _, and state that s described in this d, concerning the nor his employer
or Province of <u>TENN</u> <u>HETTED DOL</u> in this Owner's Report during the per to the best of my knowledge and belin Owner's Report in accordance with the By signing this certificate neither t examinations and corrective measures shall be liable in any manner for any p		have inspirations and taken co code, Section XI. er makes any warranty, exp Report. Furthermore, neith mage or a loss of any kind a	C. T.N.S.P. ected the comp 96 rrective measure pressed or implie er the Inspector	<u>HETNS CO</u> of onents described _, and state that s described in this d, concerning the nor his employer
or Province of <u>TENN</u> <u>HETTED DOL</u> in this Owner's Report during the per- to the best of my knowledge and belin Owner's Report in accordance with the By signing this certificate neither t examinations and corrective measures shall be liable in any manner for any p		have inspirations and taken co code, Section XI. er makes any warranty, exp Report. Furthermore, neith mage or a loss of any kind a	$P_{1}$ TNSP ected the comp 96 rrective measures rressed or implie er the Inspector rising from or co	<u>SETNS: CD of</u> onents described _, and state that s described in this d, concerning the nor his employer nnected with this
or Province of <u>TENN</u> <u>HEITED Dd.</u> in this Owner's Report during the per- to the best of my knowledge and belie Dwner's Report in accordance with the By signing this certificate neither t examinations and corrective measures shall be liable in any manner for any p nspection.		have inspirations and taken co code, Section XI. er makes any warranty, exp Report. Furthermore, neith mage or a loss of any kind a	$P_{1}$ TNSP ected the comp 96 rrective measures rressed or implie er the Inspector rising from or co	<u>SETNS</u> CD of ponents described _, and state that s described in this d, concerning the nor his employer nnected with this

Page 55 of 218

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1.	Owner	TENNESSEE 1101 Marke	VALLEY AUTH	ORITY	Date <u>May 30, 1996</u>	
	·		<u>ga, TN 3740</u>	2-2801	Sheet	
2.	Plant	Browns Fe	Address rry Nuclear Name	Plant	Unit2	
	P.0.	Box 2000;		35609-2000	Work Order 95-01	9871-001
			Address		Repair Organization P.	O. No., Job No., etc.
3	Work Pe	rformed by	TV	Α	Type Code Symbol Stamp	<u>N/A</u>
۰.			Nar	ne	Authorization No.	N/A
	P.O.	Box 2000;	Decatur, AL	35609-2000	Expiration Date	N/A
			Address		· · · · · · · · · · · · · · · · · · ·	
4.	Identific	ation of System.	System	03, Reactor Fe	edwater (RFW)	
	(a) App	licable Construct	ion Code USAS B	1.1.0 19 67 Edi	tion,N/AAddenda,	N/A Code Case
•	(b) Appl	licable Edition of	f Section XI Utilized	i for Repairs or Replace	ments 19 <u>86</u>	

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	` Manufacturer Serial No,	National Board No.	Other Identification	• Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Outboard RFW	Atwood &	0.001		2-CKV-003	NT / A	Depleed	No
Check Valve B	Morrill Co.	3-994	<u>N/A</u>	-0568	N/A	Replaced	<u>, NO</u>
		۰, ۲	۶				
		1. 1. 1. 1					4
E a						-	-
×	Replaced t	he studs an	d nuts on	2-CKV-003-05	568; tl	his valve i	s an

7. Description of Work <u>ASME Code Class 1 equivalent component</u>.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A °F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and as amended by additional quality assurance and design requirements contained within contract 66C31-90744

Page 56 of 218

*Â • →≝...

9.	Remarks The system pressure test requirement of IWA-5214 (e) was satisfied by
	Applicable Manufacturer's Data Reports to be attached
	the performance of 2-SI-3.3.1.A, ASME Section XI System Leakage Test of The
	Reactor Pressure Vessel and Associated Piping (ASME Section III, Class 1).
	Reactor rressure vesser and associated riping (ASHL Dection m., Orass 1/.
	· · · ·
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code, Section XI.
İ.	
	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date N/A
	CAR I MAN IS
	Signed Lillert, System Engineer Date MAY 31 1996
r -	
L	Owney or Owney Designee, Title
	Owney or Owney Designee, Title
	Owney or Owney Designee, Title CERTIFICATE OF INSERVICE INSPECTION
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
	CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>TEMM</u> . and employed by <u>HSBTET</u> of HARTFORD, CT.
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
Ľ	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
r	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>TEMM</u> . and employed by <u>HSBT&amp;T</u> of <u>MARTFORP, CT</u> , have inspected the components described in this Owner's Report during the period <u>4/3/96</u> to <u>4/3/96</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	Owner's Designee, Title         CERTIFICATE OF INSERVICE INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
-	Owner's Designee, Title         CERTIFICATE OF INSERVICE INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
-	Owner's Designee, Title         CERTIFICATE OF INSERVICE INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of $\underline{TEMN}$
-	Owner's Designee, Title         CERTIFICATE OF INSERVICE INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	Owner's Designee, Title         CERTIFICATE OF INSERVICE INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	Owner's Designee, Title         CERTIFICATE OF INSERVICE INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

, <u>^</u>

/	FORM NIS-2 OWNER'S REPORT FOR H As Required by the Provisions of th	
/ 1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. ^{Name} Chattanooga, TN 37402-2801	Date <u>May 29, 1996</u>
2.	PlantBrowns Ferry Nuclear PlantName	Sheet 1
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 95-09486-00 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by	Type_Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
4.	Address Identification of System System 63, Standby Liq	uid Control
, <b>5.</b>	(a) Applicable Construction Code USAS B31.1.0 19.67 Edition (b) Applicable Edition of Section XI Utilized for Repairs or Replacem	* N/A Addenda, N/A Code Ca ents 19 <u>86</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2A SLC Squib	Conax		27/4	2-FCV-063	1967	Replaced	No
Valve	Corporation	24	N/A	-0008A	1907	[Keptaced	
a de la companya de la		y y y bk -	1 1 1	ж			
			a A				•
· · · · · · · · · · · · · · · · · · ·		,					
			1				<u> </u>
L	Replaced the		trigger assen	bly and inlet	fitting :	for 2-FCV-063	-0008A;

7. Description of Work ______ this squib value is an ASME Code Class 2 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure _____psi Test Temp, _____°F

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

* as amended by additional procurement requirements contained within General Electric Specifications 21A5575 and 21A5576 (ref. TVA Contract 66C80-90744 & GE Purchase Order 205-58968)

Page 58 of 218

		÷ "	4
Remarks The new trigger a			
•		Data Reports to be attached	•
Corp. and has serial numb	per_949Note: Th	<u>is serial number</u>	is actually assigned
		4	
to the Primer Chamber, P/	<u>/N_N27005-01_whic</u>	<u>h is a subcompone</u>	nt of the trigger
		¥t, 1	
assembly.]			
ų.		,	
e te	<b>5</b> °	,	
•	CERTIFICATE OF CO		•
We certify that the statements m	nade in the report are correct	ct and this <u>replacement</u> repair or replaceme	_ conforms to the rules of the
ASME Code, Section XI.			
		•	×
-	N	17.	۰ ۲
Type Code Symbol Stamp	N	I/A	
Certificate of Authorization No	1 NT / A	*	N/A
Certificate of Authorization No.	N/A	Expiration Date	N/A
The Port Mar	+ Susham Engin	Mary	<u>30;19_96</u>
Signed	/ , System Engin	eer Date /// Ay	<u> </u>
		•	
		·	
	CERTIFICATE OF INSER		,
I, the undersigned, holding a valid commiss			
or Province of <u>TEPH</u> ; <u>HARTFORD</u> ; CT	and employed by		of
	Gliclas	have inspect	ed the components described
n this Owner's Report during the period	d		, and state that
to the best of my knowledge and belief, t	the Owner has performed e	examinations and taken corre	
to the best of my knowledge and belief, t Dwner's Report in accordance with the req	the Owner has performed e quirements of the ASME Co	examinations and taken corre de, Section XI.	ctive measures described in this
to the best of my knowledge and belief, t Owner's Report in accordance with the req By signing this certificate neither the I	the Owner has performed e quirements of the ASME Co Inspector nor his employer	examinations and taken corre rde, Section XI. r makes any warranty, expres	ctive measures described in this ssed or implied, concerning the
to the best of my knowledge and belief, t Dwner's Report in accordance with the req By signing this certificate neither the I examinations and corrective measures des	the Owner has performed e quirements of the ASME Co Inspector nor his employer scribed in this Owner's Re	examinations and taken corre rde, Section XI. 7 makes any warranty, exprese eport. Furthermore, neither	ctive measures described in this ssed or implied, concerning the the inspector nor his employer
to the best of my knowledge and belief, t Owner's Report in accordance with the req By signing this certificate neither the I examinations and corrective measures des shall be liable in any manner for any perso	the Owner has performed e quirements of the ASME Co Inspector nor his employer scribed in this Owner's Re	examinations and taken corre rde, Section XI. 7 makes any warranty, exprese eport. Furthermore, neither	ctive measures described in this ssed or implied, concerning the the inspector nor his employer
to the best of my knowledge and belief, t Owner's Report in accordance with the req By signing this certificate neither the I examinations and corrective measures des shall be liable in any manner for any perso	the Owner has performed e quirements of the ASME Co Inspector nor his employer scribed in this Owner's Re	examinations and taken corre rde, Section XI. 7 makes any warranty, exprese eport. Furthermore, neither	ctive measures described in this ssed or implied, concerning the the inspector nor his employer
to the best of my knowledge and belief, t Owner's Report in accordance with the req By signing this certificate neither the I examinations and corrective measures des shall be liable in any manner for any perso	the Owner has performed e quirements of the ASME Co Inspector nor his employer scribed in this Owner's Re onal injury or property dam	examinations and taken corre ide, Section XI. r makes any warranty, expres- eport. Furthermore, neither hage or a loss of any kind aris	ective measures described in this ssed or implied, concerning the the Inspector nor his employer ing from or connected with this
to the best of my knowledge and belief, t Owner's Report in accordance with the req By signing this certificate neither the I examinations and corrective measures des shall be liable in any manner for any perso	the Owner has performed e quirements of the ASME Co Inspector nor his employer scribed in this Owner's Re onal injury or property dam	examinations and taken corre ide, Section XI. r makes any warranty, expres- eport. Furthermore, neither hage or a loss of any kind aris	ective measures described in this ssed or implied, concerning the the Inspector nor his employer ing from or connected with this
examinations and corrective measures des shall be liable in any manner for any perso inspection. <u>Automational Inspector's Signature</u>	the Owner has performed e quirements of the ASME Co Inspector nor his employer scribed in this Owner's Re onal injury or property dam	examinations and taken corre ide, Section XI. r makes any warranty, expres- eport. Furthermore, neither hage or a loss of any kind aris	ctive measures described in this ssed or implied, concerning the the inspector nor his employer
to the best of my knowledge and belief, t Owner's Report in accordance with the req By signing this certificate neither the I examinations and corrective measures des shall be liable in any manner for any perso inspection.	the Owner has performed e quirements of the ASME Co Inspector nor his employer scribed in this Owner's Re onal injury or property dam	examinations and taken corre ide, Section XI. r makes any warranty, expres- eport. Furthermore, neither hage or a loss of any kind aris	ective measures described in this ssed or implied, concerning the the Inspector nor his employer ing from or connected with this
to the best of my knowledge and belief, t Owner's Report in accordance with the req By signing this certificate neither the I examinations and corrective measures des shall be liable in any manner for any perso	the Owner has performed e quirements of the ASME Co Inspector nor his employer scribed in this Owner's Re onal injury or property dam	examinations and taken corre ide, Section XI. r makes any warranty, expres- eport. Furthermore, neither hage or a loss of any kind aris	ective measures described in this ssed or implied, concerning the the Inspector nor his employer ing from or connected with this
to the best of my knowledge and belief, t Owner's Report in accordance with the req By signing this certificate neither the I examinations and corrective measures des shall be liable in any manner for any perso inspection.	the Owner has performed e quirements of the ASME Co Inspector nor his employer scribed in this Owner's Re onal injury or property dam	examinations and taken corre ide, Section XI. r makes any warranty, expres- eport. Furthermore, neither hage or a loss of any kind aris	ective measures described in this ssed or implied, concerning the the Inspector nor his employer ing from or connected with this
to the best of my knowledge and belief, t Owner's Report in accordance with the req By signing this certificate neither the I examinations and corrective measures des shall be liable in any manner for any perso inspection.	the Owner has performed e quirements of the ASME Co Inspector nor his employer scribed in this Owner's Re onal injury or property dam	examinations and taken corre ide, Section XI. r makes any warranty, expres- eport. Furthermore, neither hage or a loss of any kind aris	ective measures described in this ssed or implied, concerning the the Inspector nor his employer ing from or connected with this

3

'As Re	quired by the Provisions Not To Exce	IS AND APPURTEN of the ASME Code, ed One Day's Produc	IANCES* Section III, Divi	sion 1 Pg1_ot1
				.Cheektowaga, N.Y.
anufactured forTenness		iname and address of pure	14801	oga, TN 37401
cation of installationBr		Plant, Athens,		
pe <u>N-38017</u>	304SS SA479	75 KSI		<u>1989</u>
SME Code, Section III	77	S77	1	NA
bricated in accordance with		NA Bevie	100	(Code Case no ) Date
Pressure to om thickness (in ) .040 hen applicable, Certificate F	ested at 2800 PST fi Min design thickness (in ) folders' data reports are att	.031 Dia ID (11. 8)	n) <u>NA</u> Lengt	th overall (It & in ) NA
Part or Appurtenance	National	Part or App		National
Serial Number	Board No.	Serial N	umper	Board Number
	n Numerical Order	Serial N	umper	Board Number In Numerical Otder
3287	n Numerical Order 3287	(26)		
3287 3288 3289	n Numerical Order 3287 3288 3289	(26) (27)		
3287 3288 3289 3290	n Numerical Order 3287 3288 3289 3290	(26) (27) (28) (28) (29)		
3287 3288 3289 3290 3291 3291	n Numerical Order 3287 3288 3289 3290 3291	(26) (27) (28) (29) (30)		
3287 3288 3289 3290 3291 3291 3292 3293	n Numerical Order 3287 3288 3289 3290 3291 3292 3293	(26) (27) (28) (29) (30) (31)		
3287 3288 3289 3290 3291 3292 3293 3294	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3293 3294	(26) (27) (28) (29) (30) (31) (32) (33)		
3287 3288 3289 3290 3291 3292 3293 3294 3295 3295	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3293 3294 3295	(26) (27) (28) (29) (30) (31) (31) (32) (33) (34)		
3287 3288 3289 3290 3291 3292 3293 3293 3294 3295 3296	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3293 3294	(26) (27) (28) (29) (30) (31) (31) (32) (33) (34) (35)		
3287 3288 3289 3290 3291 3292 3293 3293 3294 3295 3296	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3293 3294 3295 3296	(26) (27) (28) (29) (30) (31) (31) (32) (33) (34) (35) (36)		In Numerical Order
3287 3288 3289 3290 3291 3292 3293 3293 3294 3295 3296 3296 1) 3297 2) 3298 3)	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3294 3295 3295 3296 3297	(26) (27) (27) (28) (29) (30) (31) (31) (32) (33) (34) (34) (35) (35) (36) (37) (38) (38)		In Numerical Order
3287 3288 3289 3290 3291 3292 3293 3293 3294 3295 3296 1) 3297 2) 3298 3)	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3293 3294 3295 3295 3296 3297	(26) (27) (28) (29) (30) (31) (31) (32) (33) (34) (35) (36) (36) (37) (38)		In Numerical Order
3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3296 1) 3297 2) 3298 3)	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3293 3294 3295 3295 3296 3297	(26) (27) (28) (29) (30) (31) (31) (32) (33) (34) (34) (35) (35) (36) (37) (38) (39) (40)		In Numerical Order
3287 3288 3289 3290 3291 3292 3293 3293 3294 3295 3296 1) 3297 2) 3298 3)	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3294 3295 3294 3295 3296 3297 3298	(26) (27) (28) (29) (30) (31) (31) (32) (33) (34) (35) (36) (36) (37) (38)		In Numerical Order
3287         3288         3289         3290         3291         3292         3293         3294         3295         3296         3297         3298         33	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298	(26) (27) (28) (29) (30) (31) (31) (32) (33) (34) (34) (35) (35) (36) (37) (38) (39) (39) (40) (41) (41) (42) (43)		In Numerical Order
3287         3288         3289         3290         3291         3292         3293         3294         3295         3296         3297         3298         33	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298	(26)         (27)         (28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (40)         (41)         (42)         (43)         (44)		In Numerical Order
3287         3288         3289         3290         3291         3292         3293         3294         3295         3296         1)       3297         2)       3298         3)       3297         2)       3298         3)       3297         2)       3298         3)       3299         3)       3299         3)       3299         3)       3299         3)       3299         3)       3299         3)       3299         3)       3299         3)       3299         3)       3299         3)       3299         3)       3299         3)       3299         3)       339         3)       339         3)       330         3)       330         3)       330         3)       330         3)       330         3)       330         3)       330         3)       330	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298	(26)         (27)         (28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (40)         (41)         (42)         (43)         (44)         (45)         (45)		In Numerical Order
3287         3288         3289         3290         3291         3292         3293         3294         3295         3296         3297         3298         33	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298	(26)         (27)         (28)         (29)         (30)         (31)         (32)         (33)         (34)         (35)         (36)         (37)         (38)         (40)         (41)         (42)         (43)         (44)		In Numerical Order
3287         3288         3289         3290         3291         3292         3293         3294         3295         3296         3297         3298         3)         4)         5)         6)         7)         8)         9)         11)         22)         31)	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298	(26) - (27) - (28) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) -		In Numerical Order
3287         3288         3289         3290         3291         3292         3293         3294         3295         3296         3297         3298         3)         4)         5)         6)         7)         8)         9)         11)         12)         13)         14)         15)         16)         17)         18)         19)         11         12)         13)         14)	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298	(26) - (27) - (28) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) -		In Numerical Order
3287         3288         3289         3290         3291         3292         3293         3294         3295         3296         3297         3298         3)         4)         5)         6)         7)         8)         9)         11)         22)         31)	n Numerical Order 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298	(26) - (27) - (28) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) - (29) -		In Numerical Order

a* 1

Page 60 of 218

• • •	FORM N-2 (back)	59
	CERTIFICATE OF DESIGN	·····
Design specifications certified by	George Ivo Skoda	P.E. state_CAReg no15647
Design report* certified by	Francis J. Domino	P. Er stateReg. no36832
	CERTIFICATE OF SHOP COMPLIANCE	E v'
We certify that the statements made in conform to the rules of construction (		Inlet fittings
ASME Certificate of Authorization n	o <u>N-1850</u>	Expires September 2, 1989
Date 1 2 2 2 2 2 Name Cor	hax Buffalo Corporation Signe	ames G. "SčKraven"
. <b>*</b> 9	CERTIFICATE OF SHOP INSPECTION	ı
, the undersigned, holding a valid com nee ofNew_Yorkand em	mission issued by the National Board of Boiler an ployed by Lumbermens Mutual Cast	nd Pressure Vessel Inspectors and the state or pro- Jalty Co.
of LONG Grove, IL have insp best of my knowledge and belief, the	ected these items described in this data report of	n $\underline{5/72}$ $\underline{89}$ , and state that to the ppurtenances in accordance with the ASME Code.
		, expressed or implied, concerning the equipment be liable in any manner for any personal injury or
property damage or loss of any kird a	rising from or connected with this inspection           A         T.T. Comm         Comm	OHIO COMMISSIONED
····· ,·······························	(Authorized Inspector)	that BE rint endpreements, state or proviend no.

Page 61 of 218

MAY 25 1989

=		
1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. ^{Name}	DateJune_13, 1996
	Chattanooga, TN 37402-2801	Sheet of
	Audress	
•	Plant Browns Ferry Nuclear Plant	Unit2
4.	Name	
	P.O. Box 2000; Decatur, AL 35609-2000	<u>Work Order 96-005973-000</u>
	Address	Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA	Type Code Symbol StampN/A
	Name	Authorization No. <u>N/A</u>
	D. D. Deve 2000, December MT 25600-2000	Expiration Date <u>N/A</u>
	P.O. Box 2000; Decatur, AL 35609-2000	
	Addross	
4	Identification of System System 68, Reactor Water Re	ecirculation (Reactor Vessel)
		1332–1
5.	(a) Applicable Construction Code_ASME_SecIII_19_65_Edition,	<u>Summer 1905</u> Addenda, <u>1332-2</u> , <u>1335</u> Code Case
	(b) Applicable Edition of Section XI Utilized for Repairs or Replacement	ts 19 <u>80</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No. B & W No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Reactor Vessel	Ishikawajima- Harima Heavy	610-0127-2 IHI No.	N/A .	2-RPV-068 -1000	1971	Replaced	No
	Industries Co.	5501-152					
· · · · · · · · · · · · · · · · · · ·							
	٤.						
L	Replaced orif	iced fuel sup	ports at the	following core	locatio	ns in the Uni	.t 2

7. Description of Work reactor vessel: 34-31, 38-31, & 38-23; The reactor vessel is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 🔀 Other Pressure____N/A____psi , Test Temp.____N/A____ __^F

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

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 (12/82) *

Page 62 of 218

and as supplemented by General Electric Specification 22A2527

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

9.	Remarks As part of normal outage schedule, a system leakage test of the reactor
	Applicable Manufacturer's Data Reports to be attached
	vessel was performed following replacement of the orificed fuel supports per
	= · ·
	surveillance instruction 2-SI-3.3.1.A, ASME Section XI System Leakage Test of
	The Reactor Pressure Vessel and Associated Piping (ASME Section III, Class 1).

	CERTIFICATE OI		• ,
	ents made in the report are c	orrect and this replacement	
ASME Code, Section XI.		repair or replacen	nent .
5			
		N/A	
Type Code Symbol Stamp		M/A	······································
 Certificate of Authorization No.	N/A	Expiration Date	N/A
er tincate of Adtionization No.		Expiration Date	
Signed Hills J. Mille	, System Eng	gineer Date VUNE	14 19.96
Owner or Owner's Designee	, Title		<u></u> , 13_ <u></u>
		· · · · · · · · · · · · · · · · · · ·	
· ·	CERTIFICATE OF IN	SERVICE INSPECTION	
, the undersigned, holding a valid cor			a Vessel Inspectors and the State
r Province of TENN.			of
HADTEDRD, CT	· · · ·		cted the components described
n this Owner's Report during the p	period 4/8/96	to4/20/	
o the best of my knowledge and be	lief the Owner has perform	· · ·	
Owner's Report in accordance with th			
By signing this certificate neither		-	erred or implied concerning the
xaminations and corrective measure			
hall be liable in any manner for any			•
nspection,	,,.,.,.,.,.,,.,,,,,,,,,,		
nd + la	/	N _*	4 8 4 34
_ [llout Tailed	Comm	issions <u>TN 3135</u> National Board, State	NI
Inspector's Signatu	170	National Board, State	, Province, and Endorsements
1 22			
Date	_19 <u><i>2</i>6</u>		
	*		
, <b>.</b>	× ` / -7	~ / ^	
· · ·	Page 63	of <u>218</u>	· · · ·
· · · ·	Page 63	of <u>218</u>	2 A
· · · ·	Page 63	of <u>218</u>	

#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1.	Owner TENNESSEE VALLEY AUTHORITY	DateJune 1, 1996
,	1101 Market St. Name	
	Chattanooga, TN 37402-2801	Sheet 1 of 1
	Address	
2.	Plant Browns Ferry Nuclear Plant	Unit2
	Name	
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 96-005430-000
	Address	Repair Organization P.O. No., Job No., etc.
2	Work Performed by TVA	Type Code Symbol Stamp <u>N/A</u>
0.	Name	Authorization No. N/A
	P.O. Box 2000; Decatur, AL 35609-2000	Expiration DateN/A
4.	Identification of System System 69, Reactor Wate	c creanup (kwcu)
5.	(a) Applicable Construction Code_USAS_B31.1.0_19_67_Editi	on, <u>N/A</u> Addenda, <u>N/A</u> Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986

* as supplemented by specifications contained within Requisition No. 21042-M0144 6. Identification of Components Repaired or Replaced and Replacement Components

:	Name of Component	Name of Manufacturer	Manufacturer ⁺ Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
	RWCU System	Anchor/	· · · · · · · · · · · · · · · · · · ·		2-CKV-069			
	Return Check Vlv		<u>E-T378-1-3</u>	<u>N/A</u>	-0630	1992	Replaced_	No
		Company	L		•			5
	, <u>, , , , , , , , , , , , , , , , , , </u>		*					x
		-		14				
	· · · · · · · · · · · · · · · · · · ·			45 \$44 \$*				

Replaced valve disc in 2-CKV-069-0630 with like-for-like; this 7. Description of Work valve is an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. <u>N/A</u> F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8% in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

Page 64 of 218

9.	Remarks_	The	requi	rement	of	perf	orming	g a	system	pressure	test	following	the	

Applicable Manufacturer's Data Reports to be attached <u>disassembly and reassembly of a mechanical joint was satisfied by the performance</u> of 2-SI-3.3.1.A, ASME Section XI System Leakage Test of The Reactor Pressure <u>Vessel and Associated Piping (ASME Section III, Class 1).</u> Another test which was performed to verify seat leakage was 2-SI-4.7.A.2.g-3/3b, Primary Containment Local Leak Rate Test - Reactor Feedwater Line B: Penetration X-9B.

We certify that the statements m	CERTIFICATE OF CON nade in the report are correct	and this replacement	conforms to the rules of the
ASME Code, Section XI.		repair or replacer	nent .
,			<b>.</b>
ype Code Symbol Stamp	<u></u>	N/A	
ertificate of Authorization No.	N/A	Expiration Date	N/A
igned Willie Willier	/, System Engine	er _{Date} <u>Vunie</u>	<u> </u>
•	CERTIFICATE OF INSERV	ICE INSPECTION	· · · · · · · · · · · · · · · · · · ·
the undersigned, holding a valid commiss			
this Owner's Report during the period	3/28/96	hava_inspe to <i>4/170/96</i>	cted the components described
HARTFORD, CT this Owner's Report during the period the best of my knowledge and belief, t	he Owner has performed ex	have inspe to <u>4/20/96</u> aminations and taken cor	cted the components described
<u>HARTFORD</u> , <u>CT</u> this Owner's Report during the period the best of my knowledge and belief, t wner's Report in accordance with the req	he Owner has performed ex uirements of the ASME Cod	to <u>Have</u> inspe to <u>Hao/96</u> aminations and taken cor e, Section XI.	cted the components described , and state that rective measures described in this
<u>HARTFORD</u> , <u>CT</u> this Owner's Report during the period the best of my knowledge and belief, t wner's Report in accordance with the req By signing this certificate neither the I	B. <u>J20/96</u> the Owner has performed ex puirements of the ASME Cod Inspector nor his employer r	have inspe to <i>4/20/96</i> aminations and taken cor e, Section XI. nakes any warranty, exp	cted the components described , and state that rective measures described in this ressed or implied, concerning the
<u>HARTFORD</u> , <u>CT</u> this Owner's Report during the period the best of my knowledge and belief, t wner's Report in accordance with the req By signing this certificate neither the I caminations and corrective measures des	A Jack 196 The Owner has performed ex- puirements of the ASME Cod Inspector nor his employer r scribed in this Owner's Rep	have inspe to <i>Hadfad</i> aminations and taken cor e, Section XI. nakes any warranty, exp ort. Furthermore, neithe	cted the components described , and state that rective measures described in this ressed or implied, concerning the r the inspector nor his employed
HARTFORD, CT this Owner's Report during the period the best of my knowledge and belief, t wner's Report in accordance with the req By signing this certificate neither the I caminations and corrective measures des call be liable in any manner for any person	A Jack 196 The Owner has performed ex- puirements of the ASME Cod Inspector nor his employer r scribed in this Owner's Rep	have inspe to <i>Hadfad</i> aminations and taken cor e, Section XI. nakes any warranty, exp ort. Furthermore, neithe	cted the components described , and state that rective measures described in this ressed or implied, concerning the r the inspector nor his employed
<u>HARTFORD</u> , <u>CT</u> this Owner's Report during the period the best of my knowledge and belief, t wner's Report in accordance with the req By signing this certificate neither the I caminations and corrective measures des tall be liable in any manner for any person	the Owner has performed ex ulrements of the ASME Cod inspector nor his employer r scribed in this Owner's Rep onal injury or property dama	to <u>Have</u> inspe aminations and taken cor e, Section XI. nakes any warranty, exp ort. Furthermore, neithe ge or a loss of any kind ar	cted the components described , and state that rective measures described in this ressed or implied, concerning the r the Inspector nor his employe ising from or connected with this
<u>HARTFORD</u> , <u>CT</u> this Owner's Report during the period the best of my knowledge and belief, t wner's Report in accordance with the req By signing this certificate neither the I caminations and corrective measures des all be liable in any manner for any person	the Owner has performed ex ulrements of the ASME Cod inspector nor his employer r scribed in this Owner's Rep onal injury or property dama	to <u>Have</u> inspe aminations and taken cor e, Section XI. nakes any warranty, exp ort. Furthermore, neithe ge or a loss of any kind ar	cted the components described , and state that rective measures described in this ressed or implied, concerning the r the Inspector nor his employe ising from or connected with this
<u>HARTFORD</u> , <u>CT</u> this Owner's Report during the period the best of my knowledge and belief, t wner's Report in accordance with the req By signing this certificate neither the I caminations and corrective measures des tall be liable in any manner for any person	the Owner has performed ex ulrements of the ASME Cod inspector nor his employer r scribed in this Owner's Rep onal injury or property dama	to <u>Have</u> inspe aminations and taken cor e, Section XI. nakes any warranty, exp ort. Furthermore, neithe ge or a loss of any kind ar	cted the components described , and state that rective measures described in this ressed or implied, concerning the r the inspector nor his employed
HARTFORD, CT a this Owner's Report during the period b the best of my knowledge and belief, t wner's Report in accordance with the req By signing this certificate neither the I caminations and corrective measures des hall be liable in any manner for any person spection. Inspector's Signature	the Owner has performed ex suirements of the ASME Cod inspector nor his employer r scribed in this Owner's Rep onal injury or property dama	to <u>Have</u> inspe aminations and taken cor e, Section XI. nakes any warranty, exp ort. Furthermore, neithe ge or a loss of any kind ar	cted the components described , and state that rective measures described in this ressed or implied, concerning the r the Inspector nor his employed ising from or connected with this
a this Owner's Report during the period of the best of my knowledge and belief, t wher's Report in accordance with the req By signing this certificate neither the I kaminations and corrective measures des hall be liable in any manner for any person spection.	the Owner has performed ex suirements of the ASME Cod inspector nor his employer r scribed in this Owner's Rep onal injury or property dama	to <u>Have</u> inspe aminations and taken cor e, Section XI. nakes any warranty, exp ort. Furthermore, neithe ge or a loss of any kind ar	cted the components described , and state that rective measures described in this ressed or implied, concerning the r the Inspector nor his employed ising from or connected with this
HARTFORD, CT this Owner's Report during the period to the best of my knowledge and belief, t wner's Report in accordance with the req By signing this certificate neither the I kaminations and corrective measures des hall be liable in any manner for any person ispection. Inspector's Signature	the Owner has performed ex suirements of the ASME Cod inspector nor his employer r scribed in this Owner's Rep onal injury or property dama	to <u>Have</u> inspe aminations and taken cor e, Section XI. nakes any warranty, exp ort. Furthermore, neithe ge or a loss of any kind ar	cted the components described , and state that rective measures described in this ressed or implied, concerning the r the Inspector nor his employed ising from or connected with this

2 (

ţ

FORM NIS-2 OWNER'S F	<b><i>REPORT FOR</i></b>	REPAIRS	OR REPLACEMENTS
As Required by the	Provisions of	the ASME (	Code Section XI

1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. Name	Date <u>May 14, 1996</u>
	Chattanooga, TN 37402-2801 Address	Sheet of
2.	Plant Browns Ferry Nuclear Plant	Unit2
1	P.O. Box 2000; Decatur, AL 35609-2000 Address	Work Order' 96-003325-000 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by TVA Name	Type Code Symbol StampN/A         Authorization NoN/A
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Expiration DateN/A
4.	Identification of System System 71, Reactor Core	Isolation Cooling (RCIC)

5. (a) Applicable Construction Code USAS B31:1:0 19 67 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 *as supplemented by requirements contained in contract 70C53-92291-7

-6. Identification of Components Repaired or Replaced and Replacement Components

Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	Code Stamped (Yes or No)
Tike Metal	5768302	N/A	2-RPD-071 -0011A	N/A	Replaced	No
<u>roductas corp</u>		. *	s			
	en 1015					•
				*		
			L			n
	Manufacturer	Manufacturer Serial No. Fike Metal Products Corp. 5768302	Manufacturer Serial No. No. Pike Metal Products Corp. 5768302 N/A	Manufacturer Serial No. No. Identification Pike Metal Products Corp. 5768302 N/A -0011A	Manufacturer Serial No. No. Identification Built Pike Metal Products Corp. 5768302 N/A -0011A N/A	Manufacturer     Manufacturer     Manufacturer     Doubt     Doubt     Test       No.     Identification     Built     or Replacement       Yike Metal     2-RPD-071     N/A     Replaced       Products Corp.     5768302     N/A     -0011A     N/A

7. Description of Work rupture disc is an ASME Code Class 2 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A °F

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

Page 66 of 218

(12/82)

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

Although a pressure test was performed prior to resumption of service, the pressure test 9. Remarks was performed in accordance with test instruction PMT-0-000-MECOO1, Leak Checks on Tube Applicable Manufacturer's Data Reports to be attached

Fittings, Threaded, Flanged, or Bolted Connections and not in accordance with Nondestructive Examination Procedure N-VT-4, System Pressure Test Visual Examination Procedure. Only the N-VT-4 procedure meets ASME Section XI requirements with regard to inspector qualifications and test documentation. This failure of compliance with the Code is documented in BFN's Corrective Action Program Problem Evaluation Report (PER) BFPER960196. An inservice leakage test meeting Code requirements was subsequently performed in conjunction with the next scheduled performance of 2-SI-4.5.F.1.d, RCIC System Rated Flow at Normal Operating Pressure.

		,					
We certify that the statements made in the report are c	orrect and this <u>replacement</u>	conforms to the rules of the					
ASME Code, Section XI		•••					
with the exception noted in Remarks above.							
Type Code Symbol StampN/A							
ype Code Symbol Stamp	N/A						
Certificate of Authorization NoN/A	Expiration Date	N/A					
igned Tillio	ngineer Date MAY 15	5, 19 <u>_%</u>					
CERTIFICATE OF IN	SERVICE INSPECTION						
, the undersigned, holding a valid commission issued by the Nation or Province of <u>TENN</u> . and employed by <u>HE</u> <u>HERIFORT</u> <u>CONN</u> .	EIFORd SIM. BLR. T						
n this Owner's Report during the period	> lo - 4 - 94						
o the best of my knowledge and belief, the Owner has perform							
owner's Report in accordance with the requirements of the ASMI							
By signing this certificate neither the Inspector nor his emplo	•	sed or implied concerning the					
xaminations and corrective measures described in this Owner.							
hall be liable in any manner for any personal injury or property							
spection.							
13. J. The commi	ssions <u>9635 - TN</u> , F National Board, State, P	$=1-N-T_{2}$					
Inspector's Signature	National Board, State, P	rovince, and Endorsements					
Date(0 - 419.96							
	<u> </u>	<u> </u>					
		4					
• Т Х А		*					

#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1.	Owner - Tennessee Valley Authority	Date_June 10, 1996
	1101 Market St., Chattanooga, TN 37402	Sheet of
2.	Plant Browns Ferry Nuclear Plant Name	Unit DCN T37407A, DCN T37408A S2
	Post Office Box 2000, Decatur, AL 35609 Address	WO # 96-004533-000 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by Tennessee Valley Authority Name	Type Code Symbol Stamp <u>N/A</u> Authorization No, <u>N/A</u>
	Post Office Box 2000, Decatur, AL 35609 Address	Expiration DateN/A
4.	Identification of System_071 RCIC	

5. (a) Applicable Construction Code USAS B31.1 19 67 Edition, * Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

* W/Supplemental Requirements.

6. Identification of Components Repaired or Replaced and Replacement Components


7. Description of Work Perform System Leak Test

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8% in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E, 47th St., New York, N.Y. 10017

 $\sqrt{}$ 

Page 68 of 218

### 9. Remarks BFNP utilized Code Case N-416-1 to perform system leakage test in lieu Applicable Manufacturer's Data Reports to be attached

of hydrostatic test. TESTING PERFORMED TO VERICY VALUE OPERABILITY

.

INCLUDED Z-ST-4.5, F.I.d . 2-ST-4.7.A.2.9-3/716

ASME Code, Section XI.	iaute lugoa lu fua labort	are correct and this <u>replac</u> repair or re	placement	to the 10163 of the
Type Code Symbol Stamp	N/A			
Certificate of Authorization No	N/A	Expiration Date	N/A	
Signed Digner or Owner's Designed	ent System	ENGINIEER_Date	VUNE II	, 19 <i>.96</i>
	CERTIFICATE	OF INSERVICE INSPECTION		<u></u>
I, the undersigned, holding a valid c				
or Province of Tennessee	and employed by.	HARTFORD Steam Bo	<u>iler Insp. &amp;</u>	Ins. Co. of
Hartford, Connectio	cut	have	Inspected the con	nponents described
Hartford, Connection in this Owner's Report during the	cut period3/13/96	have	Inspected the con 30/96	nponents described
Hartford, Connection in this Owner's Report during the to the best of my knowledge and b	cut period <u>3/13/96</u> pelief, the Owner has pe	tohave	Inspected the con 30/96	nponents described
Hartford, Connection in this Owner's Report during the to the best of my knowledge and to Owner's Report in accordance with	cut period. <u>3/13/96</u> belief, the Owner has per the requirements of the	have to5/ rformed examinations and tak ASME Code, Section XI.	Inspected the con 30/96 en corrective measure	nponents described , and state that res described in this
Hartford, Connection in this Owner's Report during the to the best of my knowledge and b Owner's Report in accordance with By signing this certificate neither examinations and corrective measu	cut period_3/13/96	to	Inspected the con 30/96 en corrective measure , expressed or implineither the Inspecto	nponents described , and state that res described in this led, concerning the or nor his employer
Hartford, Connection in this Owner's Report during the to the best of my knowledge and b Owner's Report in accordance with By signing this certificate neither examinations and corrective measus shall be liable in any manner for an	cut period_3/13/96	to	Inspected the con 30/96 en corrective measure , expressed or implineither the Inspecto	nponents described , and state that res described in this led, concerning the or nor his employer
Hartford, Connection in this Owner's Report during the to the best of my knowledge and be Owner's Report in accordance with	cut period_3/13/96	to	Inspected the con 30/96 en corrective measure , expressed or implineither the Inspecto	nponents described , and state that res described in this led, concerning the or nor his employer
Hartford, Connection in this Owner's Report during the to the best of my knowledge and b Owner's Report in accordance with By signing this certificate neither examinations and corrective measure shall be liable in any manner for an	cut period_3/13/96 belief, the Owner has per the requirements of the ar the Inspector nor his pres described in this On the personal injury or prop	have to	Inspected the con 30/96 en corrective measure , expressed or implineither the Inspecto	nponents described , and state that res described in this ied, concerning the or nor his employer connected with this -//

Page 69 of 218

	FN	AS	ME SECTION REPLAC	I XI REPAIF CEMENTS	S AND	SSP 05/22 Page		
				FORM S Page 1		•	·····	
			CON		SHEET FOR	NIS-2		
1.	IOV	VNER) TE	ENNESSEE VA			1		
••	(01	11	01 MARKET S	STREET				
2.	(PL	-	HATTANOOGA ROWNS FERF	-	2-2801 R PLANT	SHEE	Ta z	of -
		P.(	D. BOX 2000					
		DE	ECATUR, ALA		09 ORK DOCUM		2 DCN T37407	A
							DCN_T37408	<u>\$</u>
З.	wo	RK PERFOI	RMED BY:	TVA T	PE CODE SY	MBOL	WO 96-00453 STAMP ^b	
••			(CO	MPANY)				
	Post		RESS	AUTHC	RIZATION NO	· · ·		N/A
	Deca	tur, AL 356	509	EXPIRA	TION DATE ^b _			N/A
4.	IDE		ND STATE N SYSTEM	071 -	RCIC	4		
5(1)					SAS B31.1.1.0	-	10 67	
• •	EDI	TION, W/Supp	lemental Req	<u>'s.</u> ADD	ENDA, CODE	CASE(	S) <u>N-416-1</u>	
5(B).		LICABLE E		CTION XI L	ITILIZED FOR	REPAI	rs or	
6.	IDE	NTIFICATIO	N OF COMPO		PAIRED OR RE	EPLACI	ED AND	
	REP	LACEMENT	COMPONEN	TS				
<b>[</b>		1	Manufacturer	National	Other	Year	Repaired.	ASME
Name		Name of	Serial No.	Board No.	Identification	Built	Replaced, or	Code Stamp
Comp	onent :	Manufacturer					Replacement	(Yes o No)
SYSTE		TVA	NIA	NA	WP T'57407-001 WP T3 7408-COZ	1995	REPLACEMENT	NO
			1		WF 13 1408-000			
LEAK								1
		l					The second se	
				BER OF CC	NTINUATION	SHEET	S UNTIL THE	-
<u>леак</u> а.	NIS-	2 FORM IS	INITIATED.			SHEET	S UNTIL THE	
LEAK -	NIS-	2 FORM IS	INITIATED.		NTINUATION	SHEET	S UNTIL THE	
<u>сеак</u> а. b.	NIS- FOR	2 FORM IS	INITIATED. RFORMED BY		TE HOLDER.		S UNTIL THE	

: •



· ·

, · · ·

FORM NIS-2 OWNER'S REPORT FOR REPAIRS	<b>OR REPLACEMENTS</b>
As Required by the Provisions of the ASME	Code Section XI

1. Owner	Cennessee Valley Authority	Date June 10, 1996
1101	Market St., Chattanooga, TN 37402	Sheet of2
· · ·	owns Ferry Nuclear Plant Name Office Box 2000, Decatur, AL 35609 Address	Unit2 DCN T37407A <u>WP T37407–001</u> Repair Organization P.O. No., Job No., etc.
	ned by Tennessee Valley Authority Name fice Box 2000, Decatur, AL 35609 Address	Type Code Symbol Stamp     N/A       Authorization No.     N/A       Expiration Date     N/A
4. Identificatio	n of System 071 - RCIC	

5. (a) Applicable Construction Code USAS B31, 1 19 67 Edition, N/A * Addenda, Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_ 86 * W/Supplemental Requirements.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No,	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
See-Attached							
· · · · ·							

- WP T37407-001 installed valve 2-CKV-071-0580. 7. Description of Work_
- 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure .**See Block 9 (remarks) Other Pressure_____psi Test Temp. °F

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

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Page 71 of 218

	Applicable Manufacturer's Data Reports to be attached <u>lieu of hydrostatic_test.</u> **Pressure test_was_performed_by_WO # 96-004533-
	·
•	
	· · · ·
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the
;	SME Code, Section XI. repair or replacement
	N / A
	pe Code Symbol StampN/A
	rtificate of Authorization NoN/AExpiration DateN/A
3	
	noo Halling J. Tillert, M. System ENGINEER Date JUNE 1.1 1996
•	Owner or Owner's Designee, Title, , , 19 76
	CERTIFICATE OF INSERVICE INSPECTION
	the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the State
•	Province of <u>Tennessee</u> and employed by <u>HARTFORD</u> Steam Boiler Insp. & Ins. Co. of Hartford, Connecticut
	nave inspected the components described
	this Owner's Report during the period $12/12/95$ to $4/9/96$ , and state that
	the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
	vner's Report in accordance with the requirements of the ASME Code, Section XI.
	By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
	aminations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
	pection.
	All X - Les
	Commissions TN 3135 N I
٠	

Page 72 of 218

BFN	ASM	E SECTION ) REPLACI	KI REPAIRS / EMENTS	0	SSP-6.9 )5/22/92 Page 27		
			FORM SSF Page 1 of				
		CONT	TINUATION S	HEET FOR N	IS-2		
1. (OWI	1101	MARKET ST	LEY AUTHO IREET TN 37402-			res al	۲
2(PLA	NT) BRO P.O.	WNS FERRY BOX 2000	Y NUCLEAR F	PLANT			X
	. DEC.	ATUR, ALAB	AMA 35609 WOF	RK DOCUME	UNIT VT(S) 고 ~		07A
		(CON 07 2000	/PANY)	E CODE SYM			Δ
·	ATUR AL	35609 ) STATE	EXPIRATI	ON DATE ^b RCIC		NA	
EDIT 5(B). APPL REPL 6. IDEN	ION, <u>W/SUPPLEI</u> .ICABLE EDI .ACEMENTS	TION OF SE : <u>1986</u> OF COMPOI	<u>RETREDT</u> S ADDE CTION XI UT NENTS REPA	NDA, CODE ( ILIZED FOR F IRED OR RE	CASE(S) REPAIRS	SOR -	6-1
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Built F	Repaired. Replaced, or Replacement	ASME Code Stamp (Yes of No)
VÁLVE	AUCHOR DARUNG	EZ539-1-1	NA	2-0. KV -071-0580	1995	REPLACEMENT	N
			NIA				
b. FOR	2 FORM IS IN	NITIATED. FORMED BY	BER OF CON			UNTIL THE	CO-CH-
псеропою			_73_of_21				004

i



ų

. . .

.

•

5

#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

	(a) Applicable Construction Code USAS B31 1 19 67 Edition	* Addenda N/A Code Cete
	Identification of System 073 - HPCI & 071 - RCIC	
	Post Office Box 2000, Decatur, AL 35609	Expiration DateN/A
3.	Work Performed by <u>Tennessee Valley Authority</u> Name	Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>
	Address	Repair Organization P.O. No., Job No., etc.
	Post Office Box 2000, Decatur, AL 35609	DCN T37408A Stage 1 & Stage 2 WP T37408-001 & WP T37408-002
2.	Plant Browns Ferry Nuclear Plant	Unit 2
	1101 Market St., Chattanooga, TN 37402	Sheet 1 of 23
••	Name	_
1.	Owner Tennessee Valley Authority	DateJune 10, 1996

(a) Applicable Construction Code <u>USAS_B31.1</u>19_<u>b/</u>_Edition, <u>*</u>_____Addenda, <u>1972</u>_____Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>86</u>_____
 * W/Supplemental Requirements.

6. Identification of Components Repaired or Replaced and Replacement Components

、 Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationai Board No,	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SeeAttached							
	e)						
	14						

WP T3/408-001 instal 7. Description of Work_<u>WP_T37408-002_installed_valve_2-SHV-071-0520</u>.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure ** See Block 9 (remarks) Other Pressure_____psi Test Temp._____F

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

(12/82)

1

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Page 74 of 218

### 9. Remarks <u>BFNP Utilized Code Case N-416-1 to perform system leakage test in lieu</u> Applicable Manufacturer's Data Reports to be attached

,

,

of hydrostatic test. ** Pressure tests were performed by WO # 96-004536-000

.

ι

& WO # 96-004533-000.

		OF COMPLIANCE		
	ients made in the report a	re correct and this replac	<u>ement</u> conforms to placement	o the rules of the
ASME Code, Section XI.		·		
		11		
Type Code Symbol Stamp	<u>N/A</u>			
Certificate of Authorization No.	<u>N/A</u>	Expiration Date	<u>N/A</u>	
The I Mi	11 Lan	F		01
Signed Owner's Designed	WAT SYSTEM	EAVGIL'EERDaro	WE IL	, 1976
η,	CERTIFICATE OF	F INSERVICE INSPECTION		
i, the undersigned, holding a valid o				
		HARTFORD Steam Bo	iler insp. &	Ins. Co. of
Hartford, Connectio			inspected the com	ponents described
in this Owner's Report during the	period <u>1/3/96</u>	to4/	2/96	, and state that
to the best of my knowledge and b		formed examinations and tak	en corrective measure	es described in this
Owner's Report in accordance with a	the requirements of the A	SME Code, Section XI.		
By signing this certificate neithe	ar the Inspector nor his e	molover makes any warranty	, expressed or impli	ed, concerning the
examinations and corrective measu		• • • •	• •	
shall be liable in any manner for an		•	•	
	100 D 1		# b //	<b>1</b> -
	lef an	mmissions TN 3135	~ 'N''F	) <i>,</i>
Inspection.	ture Co	mmissions <u>TN 3135</u> National Board	, State, Province, and	Endorsements
	ture Co	mmissionsNational Board	, State, Province, and	v Endorsements
	ture Co	mmissions <u>TN 3135</u> National Board	, State, Province, and	P Endorsoments

Page 75 of 218

BFN		ASME SECTION XI REPAIRS AND REPLACEMENTS			SAND	SSP-6.9		
					,	Page	27 of 72	
	_		_	FORM S Page 1				
<del>.</del>								
			CON	TINUATION	SHEET FOR	NIS-2	3	
1 (OWN		•						
			101 MARKET STREET					- 3
2 <u>.</u> (	PLA	CHATTANOOGA, TN 37402–2801 ANT) BROWNS FERRY NUCLEAR PLANT SHEET ^a _						<u>+ -4</u>
			. BOX 2000 CATUR, ALAI	BAMA 356	na		2 2	
					ORK DOCUME	INT(S)	TXN .T37400	
		-		-	• •		WP T37408	-001
з. V	WORK PERFORMED BY: TYPE CODE SYMBOL STAMP bN/A							
F	Post	Office Box		MPANY) AUTHO	RIZATION NO	Ъ		N/A
		ADDR	RESS				1	
	lecat		ID STATE	EXPIHA	TION DATE ^b _	····		<u>N/A</u>
l II	DEN.	TIFICATION	I SYSTEM	073 - 1	1PC1			
					SAS B31.1.1.0		19 <u>.67</u> .	
E 5(B), A	DITI	ONW <u>/Supple</u>	mental Requi	CTION XI II	ENDA, CODE TILIZED FOR	CASE	S) MA N-1	416-1
F	IEPL	ACEMENTS	S: <u>1986</u>					
			OF COMPO		PAIRED OR RE	EPLACE		ı
			Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired,	ASME Code
Name of Compone		Name of Manufacturer	Senarivo.		Identification		Replaced, or	Stamped
		natiuraeturei	Υ.			1979	Replacement	(Yes or No)
	·	LEROTEST	AAm -12-15	NA.	2-5HV-073-053	rife	REPLACEMENT	Notes
VALVE				MA		604-2	7C	604-3
VALVE				14.24		1		
VALVE			<u> </u>	tes. due	<u></u>			
a. D N	IS-2	FORM IS I	NITIATED.	BER OF CC	NTINUATION	SHEET	'S UNTIL THE	15BF
a. D N	IS-2	FORM IS I	NITIATED.	BER OF CC		SHEET	S UNTIL THE	150 F 34-29
a. D N	IS-2 OR V	FORM IS I	NITIATED. FORMED BY	BER OF CC	NTINUATION TE HOLDER.		S UNTIL THE	5019 34-29



a 4

· . .

•

.

• .

`

,

1	*								
•	BI	FN	A	ASME SECTION XI REPAIRS AND REPLACEMENTS				6.9	
						X	Page	27 of 72	
	<b>)</b>				FORMO				
		-		-	FORM SS Page 1				
	_								
	-			CON	ITINUATION	SHEET FOR	NIS-2		
	1	(00		ENNESSEE VA 101 MARKET S		ORITY			
-	2.	(PL/	· C	HATTANOOGA ROWNS FERR	, TN 37402		SHEE		of 3
	-	`	, P.	.O. BOX 2000				R	
ľ			D	ECATUR, ALA			-	82	
					WC		• •	WP T37408.	
			*	•	-				<u> </u>
	З.	WOI	<b>AK PERFO</b>	RMED BY:		PE CODE SYN	MBOL S	STAMP ^b	N/A
		Post	Office Bo		MPANY)		b		
		1030		DRESS		RIZATION NO.		····	<u>N/A</u>
		Deca		609	EXPIRAT	ION DATE b_			<u>N/A</u>
				AND STATE		<b></b>			1
$\mathbf{\bullet}$		IDEr		ON SYSTEM	011 - 1				
•	5(A).	APP		ONSTRUCTIO		SAS B31.1.1.0			
		EDIT	IONW/Supp	lemental Requi	rement ADDE	ENDA, CODE	CASE(	S) THA N.	-416-1
	5(8).	APP	LICABLE E LACEMEN	DITION OF SE		FILIZED FOR	REPAIR	AS OR the second	
				N OF COMPO	NENTS REP.	AIRED OR RE	PLACE		
				T COMPONEN					-
				•					
				Manufacturer	National	Other	Year	Repaired,	ASME
	Name o		Name of	Serial No.	Board No.	Identification	Built	Replaced,	Code Stamped
	Сотро	nent	Manufacture	r -				Replacement	(Yes or
						•	1979		No)
	VALVE		KEROTEST	AAm-12-23	NA	2-544-071-0520	Ar	REPLACEMENT	-100Yes
					N/~		GO-96 4-2-96	 	оки 4-2-96
					Run 96				
	i	1412-		N TOTAL NUME NITIATED.			SHEET	S UNTIL THE	43B to
		rUH	WORK PE	RFORMED BY	CERTIFICA	TE HOLDER.		- (	4-2-56
]	Respo	nsibl	e Organiza				Perioc	I: LIFETIME	
	•			Page	<u>77</u> of 2	18			002

1.	Owner TENNESSEE VALLEY AUTHORITY	DateJune_21, 1996
	1101 Market St. Name	
	Chattanooga, TN 37402-2801	Sheet 1 of 1
	Address	
2	Plant Browns Ferry Nuclear Plant	Unit2
	Name	
	P.O. Box 2000; Decatur, AL 35609-2000.	Work Order 95-020348-000 -
	Address	Repair Organization P.O. No., Job No., etc.
2	Work Performed by	Type Code Symbol StampN/A
5.	Name	Authorization No. N/A
	P.O. Box 2000; Decatur, AL _ 35609-2000_	Expiration Date N/A
	Address	
	Identification of SystemSystem 73, High Pressure	Coolant Injection
4.	Identification of SystemOf Com_ 70 st m281 1200 020	,
•	(a) Applicable Construction Code_USAS_B31.1.0_19_67_Edition,	N/A Addenda N/A Code Case
<u>,</u> Б.	(a) Applicable construction code_0383_001.1.0_19_07Edition,	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>86</u>

6. Identification of Components Repaired or Replaced and Replacement Components

-	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
	HPCI Cooling Water Reducing	Orifice - TVA/ Flanges - Idea	N/A	N/A	2-PR0-073 -0066	1996	Replacement	No
	Orifice w/ Flanges	Forging						
					×			

Fabricated and installed by welding pressure reducing orifice 2-PRO-073-0066 per 7. Description of Work DON T38124A; this is an ASME Code Class 2 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A F

NOTE: Supplemental sheets in form of lists; sketches, or drawings may be used, provided (1) size is 8½ in. × 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.

(12/82)

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

Page 78 of 218

TVA elected to invoke use of ASME Section XI Code Case N-416-1 to perform a system leakage 9. Remarks test in lieu of a hydrostatic pressure test. NRC permitted use of this Code Case for BFN Applicable Manufacturer's Data Reports to be attached

<u>via approval of Request for Relief SPT-8 (ref. RINS L44 950821 004).</u> However, performance of the system leakage test did not meet the requirements of IWA-5214(a) in that the test was not performed <u>prior to resumption of service.</u> The system leakage test was performed on May 18, 1996 as part of the performance of 2-SI-3.3.9, ASME Section XI Functional System Pressure Test Of The High Pressure <u>Coolant Injection System (ASME Section III, Class 2) which occurred approximately 24 days after Unit</u> 2 returned to commercial operation. This noncompliance with the ASME Sec. XI Code was documented in EFN's Corrective Action Program Problem Evaluation Report (PER) No. BFPER960790.

We certify that the stateme ASME Code, Section XI. *	CERTIFICATE C nts made in the report are	correct and this repla	acement conforms to	the rules of the
with the exception to IWA-5	214(a) as noted abo	ve.	,	
Type Code Symbol Stamp		N/A		र 
Certificate of Authorization No.	N/A	Expiration Date	N/A	
Signed Hallis All	Title	ngineer _{Date}	IUNE 24	, 19 <i>96</i>
I, the undersigned, holding a valid con or Province of TETU		NSERVICE INSPECTIC ional Board of Boiler an HSBZET		tors and the State
<u>HARTFORD</u> , <u>CT</u> in this Owner's Report during the p			ve inspected the comp	oonents described
to the best of my knowledge and bel Owner's Report in accordance with th	ef, the Owner has perfor	med examinations and t		
By signing this certificate neither examinations and corrective measure shall be liable in any manner for any	described in this Owne	r's Report. Furthermore	e, neither the Inspector	nor his employer
inspection,	Comn	nissions 7N 3 National Boa	135 11's	Endorsements
Datefune 28	19.96			
· · · · · · · · · · · · · · · · · · ·	Page 79	of <u>218</u>		*

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1.	Owner Tennessee Valley Authority	Date_June 10, 1996
	1101 Market St., Chattanooga, TN 37402 Address	Sheet of 2
2.	Plant Browns Ferry Nuclear Plant Name Post Office Box 2000, Decatur, AL 35609	Unit 2 DCN T37406A, DCN T37408A S1
	Address	WO # 96-004536-000 Repair Organization P.O. No., Job No., etc.
3.	Work Performed by Tennessee Valley Authority Name	Type Code Symbol Stamp <u>N/A</u>
	Post Office Box 2000, Decatur, AL 35609 Address	Expiration DateN/A
4.	Identification of SystemO73 - HPCI	

5. (a) Applicable Construction Code_USAS_B31.1 19_67_Edition, <u>*</u>_____Addenda, <u>N/A</u>
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86_____
 ★ M/Supplamental_Regular memory to 1

* W/Supplemental Requirements.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
See_Attached							
	r.**	(t)					
				1		<u>.</u>	
						-	

- 7. Description of Work Perform system leak test
- 8. Tests Conducted: Hydrostatic Preumatic Nominal Operating Pressure Other Pressure N/A psi Test Temp, N/A F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8% in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Page 80 of 218

Remarks <u>BFNP utilized Code Case N-416-1 to perform system leakage test in lie</u>
Applicable Manufacturer's Data Reports to be attached
of hydrostatic test. TESTING PERFORMED TO VERIFY VALVE.
OPERABILITY INCLUDED Z-SI-4.5.E.I.d & Z-SI-4.7.A.Z.9-3/7
· · · ·
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol StampN/A
Certificate of Authorization No. N/A Expiration Date N/A Signed III SX5TEM ENGINEER Date VINE 11, 1996
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>HARTFORD Steam Boiler Insp. &amp; Ins. Co.</u> of
Hartford, Connecticut
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
inspection.
Inspector's Signature Commissions TN 3135 N Z National Board, State, Province, and Endorsements
Date6/11/9619

Page <u>81</u> of <u>218</u>

.

· · · ·	BI	=N	ASN		XI REPAIRS EMENTS	AND	SSP-6 05/22/9 Page 2		
					FORM SS Page 1 o				
				CON	TINUATION	SHEET FOR	NIS-2		
	1.	(OWI	110	1 MARKET S	LLEY AUTHO TREET , TN 37402				
	2.	.(PLA	NT) BRO P.O.	OWNS FERR BOX 2000	Y NUCLEAR BAMA 3560	PLANT 9	UNIT		- <u></u>
						RK DOCUME		DCN_T37408A WO 96-00453	<u></u> 6-000
	З.			(COI 2000	MPANY)	PE CODE SYN			<u>N/A</u>
	4.		ur, AL 3560 CITY AN	9 D STATE	EXPIRAT	ION DATE b_	•	•	<u>N/A</u>
		EDITI APPL REPL IDEN	ON, <u>W/Supp1</u> ICABLE ED ACEMENTS TIFICATION	<u>emental Reg</u> ITION OF SE S: <u>1986</u>	<u>'s.                                    </u>	AS <u>B31.1.1.0</u> NDA, CODE ILIZED FOR AIRED OR RE	CASE( REPAIR	S) <u>N-416-1</u> RS OR	
	Name Comp		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired. Replaced, or Replacement	ASME Code Stamped (Yes or No)
	SYSTE LEAK		TVA	NIA	NA	WP T37406-COI WP T37408-COI	1995	REPLACEMENT	· No
	•								
	a. b.	NIS-2	FORM IS I	NITIATED.		TINUATION HOLDER.	SHEET	S UNTIL THE	
:	Resp	onsible	e Organizatio				n Perioc	I: LIFETIME	
	•			Page	<u>8_82_of_2</u>	18			

FORM NIS-2 OWNER'S	<b>REPORT FOR</b>	<b>REPAIRS OR</b>	REPLACEMENTS
As Required by th	e Provisions of	the ASME Cod	e Section XI

1.	Owner Tennessee Valley Authority	DateJune 10, 1996
	1101 Market St., Chattanooga, TN 37402 Address	Sheet
2.	Plant Browns Ferry Nuclear Plant Name Post Office Box 2000, Decatur, AL 35609	Unit2 DCN T37406A 
3.	Address Work Performed by <u>Tennessee Valley Authority</u> Name Post Office Box 2000, Decatur, AL 35609	Repair Organization P.O. No., Job No., etc.         Type Code Symbol Stamp         N/A         Authorization No.         N/A         Expiration Date
4.	Address Identification of System 073 - HPCI	

5. (a) Applicable Construction Code_USAS_B31.1_19_67_Edition, ______Addends, _____N/A ____Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86_____
 * W/Supplemental Requirements.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
See_Attached							
			×				

7. Description of Work WP T37406-001 installed valve 2-CKV-073-0603.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure A*See Block 9 (remarks) Other Pressure_____psi Test Temp._____F

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

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Page 83 of 218

## 9. Remarks __BFNP_Utilized_Code_Case_N-416-1_to_Perform_System_Leakage_Test_in_lieu

\$

.

		TE OF COMPLI			
We certify that the statements	made in the report	t are correct and	this_Replac	<u>ement</u> conform	ns to the rules of the
ASME Code, Section X1.					
ype Code Symbol Stamp	N/A				
/// 0000 0////00/ 0(3////					
Certificate of Authorization No.	<u>N/A</u>	Exp	Diration Date	N/A	
(Th) 1 1.1.11	1	· · · ·	,		•
igned theles Aubert	SYSTEM	ENGINEER	_Date	INIE II	, 1996
Owner or Owner's Designee, Tit					
,	CERTIFICATE	OF INSERVICE	INSPECTION		
, the undersigned, holding a valid commi	ssion issued by the	e National Board	l of Boiler and P	ressure Vessel In:	spectors and the Stat
r Province of Tennessee	_and employed by	HARTFORD	Steam Boi	ler Insp.	& Ins. Co. o
Hartford, Connecticut					omponents describe
n this Owner's Report during the perio	d. 12/15/0				•
o the best of my knowledge and belief,			•		
	•			II CONCELIVE INCO	soles described in thi
Owner's Report in accordance with the re		•			
By signing this certificate neither the	•	• •	• • • • •	•	
xaminations and corrective measures de					
hall be liable in any manner for any per-	sonal injury or pro	operty damage of	r a loss of any ki	nd arising from o	or connected with thi
nspection.					
111 - 1.00	•		+112.20	11	11- 4
- Mour land		Commissions	1N 7125	State Province.	<u>k</u>
inspector a Signature			National Board,	State, Province,	and Endorsements
Cal. In:				1	
Date////96 19				-	

Page 84 of 218

2(PLA 3. WOR <u>Рост</u> 4. IDEN 5(A). APPL	1101 CHA NT.) BRO P.O. DEC. K PERFORM <u>OFFICE Box</u> ADDRI ATUR AL CITY ANI TIFICATION	NESSEE VAI MARKET S TTANOOGA, WNS FERR BOX 2000 ATUR, ALAB MED BY:T (CON 2000 ESS 35906	LLEY AUTHO TREET , TN 37402- Y NUCLEAR I BAMA 35609 WOF WOF WOF TYP AUTHORI	E CODE SYN	SHEET UNIT _ NT(S) _ IBOL S	<u>2</u> <u>DCN T 3740</u> WP T37400 STAMP ^b	06A 6-001
2(PLA 3. WOR <u>Рьст</u> 4. IDEN 5(A). APPL	1101 CHA NT.) BRO P.O. DEC. K PERFORM <u>OFFICE Box</u> ADDRI ATUR AL CITY ANI TIFICATION	NESSEE VAI MARKET S TTANOOGA, WNS FERR BOX 2000 ATUR, ALAB MED BY:T (CON 2000 ESS 35906	LLEY AUTHO TREET , TN 37402- Y NUCLEAR I BAMA 35609 WOR WOR WOR TYP MPANY) AUTHORI EXPIRATI	PRITY -2801 PLANT RK DOCUMEI E CODE SYM IZATION NO.	SHEET UNIT _ NT(S) _ IBOL S	<u>2</u> <u>DCN T 3740</u> WP T37400 STAMP ^b	06A 6-001
2(PLA 3. WOR <u>Рьст</u> 4. IDEN 5(A). APPL	1101 CHA NT.) BRO P.O. DEC. K PERFORM <u>OFFICE Box</u> ADDRI ATUR AL CITY ANI TIFICATION	NESSEE VAI MARKET S TTANOOGA, WNS FERR BOX 2000 ATUR, ALAB MED BY:T (CON 2000 ESS 35906	LLEY AUTHO TREET , TN 37402- Y NUCLEAR I BAMA 35609 WOR WOR WOR TYP MPANY) AUTHORI EXPIRATI	PRITY -2801 PLANT RK DOCUMEI E CODE SYM IZATION NO.	SHEET UNIT _ NT(S) _ IBOL S	<u>2</u> <u>DCN T 3740</u> WP T37400 STAMP ^b	06A 6-001
2(PLA 3. WOR <u>Рьст</u> 4. IDEN 5(A). APPL	1101 CHA NT.) BRO P.O. DEC. K PERFORM <u>OFFICE Box</u> ADDRI ATUR AL CITY ANI TIFICATION	MARKET S TTANOOGA, WNS FERR BOX 2000 ATUR, ALAB IED BY: <u>T</u> (CON 2000 ESS 35906 D STATE	TREET , TN 37402- Y NUCLEAR I BAMA 35609 WOR <u>VA</u> TYP MPANY) AUTHORI EXPIRATI	-2801 PLANT RK DOCUMEI E CODE SYM IZATION NO.	UNIT _ NT(S) _ IBOL S	<u>2</u> <u>DCN T 3740</u> WP T37400 STAMP ^b	06A 6-001
3. WOR <u>Рост</u> <u>Десл</u> 4. IDEN 5(A). APPL	CHA NT.) BRO P.O. DEC. K PERFORM <u>OFFICE Box</u> ADDRI ATUR AL CITY ANI TIFICATION	TTANOOGA, WNS FERR BOX 2000 ATUR, ALAB (CON 2000 ESS 35906 D STATE	, TN 37402- Y NUCLEAR I BAMA 35609 WOR WOR TYP AUTHORI EXPIRATI	PRK DOCUMEI E CODE SYM IZATION NO. ION DATE ^b	UNIT _ NT(S) _ IBOL S	<u>2</u> <u>DCN T 3740</u> WP T37400 STAMP ^b	06A 6-001
3. WOR <u>Рост</u> <u>Десл</u> 4. IDEN 5(A). APPL	P.O. DEC. K PERFORM <u>OFFICE Box</u> ADDRE ATUR AL CITY ANI TIFICATION	ATUR, ALAB 1ED BY: _T (CON 2000 2000 2000 2000 2000 CON 2000	AMA 35609 WOP MPANY) AUTHORI EXPIRATI	PRK DOCUMEI E CODE SYM IZATION NO. ION DATE ^b	UNIT _ NT(S) _ IBOL S	<u>2</u> <u>DCN T 3740</u> WP T37400 STAMP ^b	06A 6-001
<u>Рост</u> <u>Десл</u> 4. IDEN 5(A). APPL	K PERFORM <u>Office کمی</u> ADDRE <u>ATUR AL</u> CITY ANI TIFICATION	1ED BY: <u>T</u> (CON 2000 ESS 35906	WOP <u>'YA</u> TYP MPANY) AUTHORI EXPIRATI	RK DOCUMEI E CODE SYN IZATION NO. ION DATE ^b	NT(S) - - IBOL S	<u>DCN T 3740</u> WP T37400 STAMP ^b ん N/A	6-001
<u>Рост</u> <u>Десл</u> 4. IDEN 5(A). APPL	<u>OFFICE کمی</u> ADDRE <u>ATUR AL</u> CITY ANI TIFICATION	(CON 2000 ESS -35906 D STATE	MPANY) AUTHORI EXPIRATI	IZATION NO. ION DATE ^b	b	NA	<u>)</u>
<u>Рост</u> <u>Десл</u> 4. IDEN 5(A). APPL	<u>OFFICE کمی</u> ADDRE <u>ATUR AL</u> CITY ANI TIFICATION	(CON 2000 ESS -35906 D STATE	MPANY) AUTHORI EXPIRATI	IZATION NO. ION DATE ^b	b	NA	
<u>Десл</u> 4. IDEN 5(A). APPL	ADDRI <u>אדעות אג</u> CITY ANI TIFICATION	255 35906 D STATE	EXPIRATI	ION DATE ^b			
4. IDEN 5(A). APPL	CITY ANI TIFICATION	D STATE				<u> </u>	
5(A). APPL		SYSTEM	015-	- HECI			
FDIT	JOARLE COM						
5(B). APPL	ION w/supple	EMEDITAL REQU	INCEMENTSADDF	<u>AS ひろい</u> NDA, CODE (	CASE(S	S) N-410	6-1
	ICABLE EDI	TION OF SE	CTION XI UT	ILIZED FOR F	REPAIR	RS OR .	
6. IDEN	TIFICATION	OF COMPO		AIRED OR RE	PLACE	ED AND	
REPL	ACEMENT (	COMPONEN	TS				
		Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired. Replaced,	ASME Code
1. 1	Name of Manufacturer	Senarivo.	Doard No.	identinoation	Dun	or Replacement	Stamp (Yes of
			· · · ·				No)
VALVE	ANCHOR DARLING	EZ539-2-1	NA	2.CKY.073-0603	1995	REPLACEMENT	<u>N0</u>
•			N/A RW 7-12-96				
			BER OF CON		SHEET	'S UNTIL THE	-
	2 FORM IS IN WORK PERF		CERTIFICAT	TE HOLDER.			ť
Responsible	e Organizatio	on: RIMS		Retention	Period	: LIFETIME	4
-			<u>85 of 21</u>	_			

ŝ

1	OwnerTENNESSEE VALLEY AUTHORITY	Date December 2, 1995
•••	1101 Market St.Name	, <u> </u>
	Chattanooga, TN 37402-2801	Sheet of
	Address	
2.	Plant Browns Ferry Nuclear Plant	Unit2
	Name	,
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 95-08978-00
	Address	Repair Organization P.O. No., Job No., etc.
3	Work Performed by TVA	Type Code Symbol StempN/A
	Name	Authorization No N/A
	P.O. Box 2000; Decatur, AL 35609-2000	Expiration DateN/A
	Address	
4.	Identification of System System 74, Residual Hea	t Removal
5.	(a) Applicable Construction Code USAS B31.1.0 19.67 Ed	
•	(b) Applicable Edition of Section XI Utilized for Repairs or Replace	ements 19 <u>86</u>

- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	No. No. Identification Built or Replacement or No.				
Support (Snubber)	Bergen-	TVA Serial		[		5	
2-47B452-418	Paterson	No. M0193	<u>N/A</u>	-5032	<u>_N/A_</u>	<u>Replaced</u>	No
						٧	
	<u> </u>		· ·				
					<b>_</b>		
L	Replaced si	hubber 2-SN	UB-074-503	2 with like-	for-1i	ke; this s	nubber

7. Description of Work is an ASME Code Class 2 equivalent component

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure psi Test Temp. _____ °F

.

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 as supplemented by requirements contained in contract 68C37-91062

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Page 86 of 218

9. Remarks The original snubber (TVA Serial No. M0333) was scrapped due to scarred or unusable parts.

в.

Applicable Manufacturer's Data Reports to be attached The newly installed snubber (TVA Serial NO. M0193) was maintained as a spare snubber after having been deleted from location 3-SNUB-074-5048 per DCN W18646. The new snubber (TVA Serial No. M0193) was rebuilt per MPI-0-000-SNE002, Hydraulic Shock and Sway Arrestor Bergen-Paterson Unit Disassembly and Reassembly, and then functionally tested per 2-SI-4.6.H-2B, Functional Testing of Bergen-Paterson Hydaulic Snubbers, prior to installation as 2-SNUB-074-5032.

	CERTIFICATE	OF COMPLIANCE		
1.3 a 10/a constitut that the states	ents made in the report are		enlacement .	onforms to the rules of the
ASME Code, Section XI.	ents made in the report an	rep	air or replacement	
ASIME Code, Section A1.		•		19 a a
i			14	
Tune Code Such at Second		N/A		
Type Code Symbol Stamp	······································			······································
Certificate of Authorization No.	N/A	Expiration	Data	N/A
Certificate of Admonzation No.	N/, A1	expiration	Date	
signed hummy E. Vib	0 A. System F	ngineer out	Docomh	er 5 1995
Owner or Owner's Designe	e, Title	Date		<u>er                                     </u>
f			······································	
	CERTIFICATE OF			
I, the undersigned, holding a valid co	•			
or Province of TENNESSEE	and employed by_#	arter Ster	,	•
Hartford, Conn				the components describe
in this Owner's Report during the	period	-21-95 to_	11-21-95	, and state the
to the best of my knowledge and b	elief, the Owner has perfo	rmed examinations	and taken correcti	ive measures described in th
Owner's Report in accordance with	the requirements of the AS	ME Code, Section X	3.	
By signing this certificate neithe	r the Inspector nor his em	ployer makes any v	varranty, expresse	d or implied, concerning th
examinations and corrective measu				
shall be liable in any manner for an			•	-
Inspection.			•	
	1	*. •		
<u>George h Dea</u>	to Com	missions_7w a	3178 <i>F.I</i>	V, A ovince, and Endorsements
Jhspector's Signa	ure	Nationa	I Board, State, Pro	ovince, and Endorsements
Date/2-7	1995	<b>.</b>	,	<b>`</b> .
				-
3				
			•	
•	Page 87	of_ <u>_218</u>	· •	
	·4 >			1

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1.	OwnerTENNESSEE VALLEY AUTHORITY	April 12, 1996
	1101 Market St.Name	
	Chattanooga, TN 37402-2801	Sheet1of1
	Address	
2.	Plant Browns Ferry Nuclear Plant	Unit 2
	Name	
	P.O. Box 2000; Decatur, AL 35609-2000	Work Order 96-005983-000
	Address	Repair Organization P.O. No., Job No., etc.
2	Work Performed by TVA	Type Code Symbol StampN/A
υ.	Address Plant Browns Ferry Nuclear Plant Name P.O. Box 2000; Decatur, AL 35609-2000 Address Work Performed by TVA Name P.O. Box 2000; Decatur, AL 35609-2000 Address Identification of System System 74, Residual He	Authorization No N/A
	P.O. Box 2000; Decatur, AL 35609-2000	
	Address	
4.	Identification of System System 74, Residual	Heat Removal
	·	Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board • No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR Pipe Support	TVA	' N/A	N/A	2- 47B452H0067IA	N/A	Repaired	No
				× ·	r u	, <b>t</b>	
				1			•
	1						· .
· · · · · · · · · · · · · · · · · · ·				•			

Repaired linear indication at weld RHR-2-012-001 on top of pipe lug to RHR Support 7. Description of Work 2-47B452H0067IA; this weld located on an ASME Code Class 1 equivalent component.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure psi Test Temp.______°F

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

(12/82)

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

Page 88 of 218

9. Remarks Evaluation and disposition of linear indication documented on Inservice Applicable Manufacturer's Data Reports to be attached

Inspection Report (IR) No. BFN-U9500344. The grinding/buffing process occurred prior to obtaining ANII review of the proposed work activity. This noncompliance with IWA-4140 of the ASME Code, Section XI, was documented in BFN Problem Evaluation Report (PER) 960434.

		CERTIFICATE OF CO	MPLIANCE		15	
ASME Code, Se	ertify that the statements m ection XI. *	ade in the report are corre	ct and this <u>re</u> repair	pairco or replacement	onforms to the ru	les of the
with the	exception as not	ed above (9. Ren	arks)			
Type Code Syn	ibol Stamp	N/A			<u> </u>	·
Certificate of A	uthorization No,	N/A	Expiration Da	ite	N/A	
	r'or Owner's Designee, Title	≁, System Engin	eer_Date	APRIL .	<u>12, 19</u>	96
	-	CERTIFICATE OF INSE			<u></u>	
l, the undersign or Province of_	ed holding a valid commiss TENN a	ion issued by the National and employed by 1956	Board of Boiler Z € Z	and Pressure Ve	ssel Inspectors an	d the State
	Report during the period				the components	
	<ul> <li>Report during the period ny knowledge and belief, tl</li> </ul>					
	in accordance with the requ					
	his certificate neither the li					
	nd corrective measures des n any manner for sny perso					
nspection.					·	
- Ma	tall	4 • • • • • • • • • • •	TNA-3	135 117	" NV	
	Inspector's Signature	Commissio	National B	oard, State, Pro	IL NV	ements
Date	June 27 19	96				
,	$\mathcal{U}$					
,		,			'n	
		Page 89 c	f 218			

\$

	As Requi	red by the Prov	visions of the A	SME Code Section	n XI		
1. Owner TENNES	SEE VALLEY AU arket St. ^{Name}	JTHORITY	×	Date April	18, 19	996	
	nooga, TN 37 Address	7402-2801		Sheet0	f <u>``1</u>		-
2. PlantBrowns	Ferry Nuclea	ar Plant		Unit 2	. م		
P.O. Box 20	00; Decatur, Address	AL 35609-	-2000	Work Order Repair Organ		)5547-000 .0. No., Job No.,	etc.
3. Work Performed by		Name	<u> </u>	Type Code Symbol : Authorization No	Stamp	N/A ' N/A	
	00; Decatur, Address			Expiration Date		N/A	
<ul> <li>4. Identification of Sy</li> <li>5. (a) Applicable Cont</li> <li>(b) Applicable Edit</li> <li>* as supplem</li> <li>6. Identification of Cont</li> </ul>	struction Code <u>USAS</u> ion of Section XI Uti	B31.1.019	* 	<u>N/A</u> A			_Code Cas
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No),

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

Replaced wedge in 2-FCV-077-0015B with like-for-like; this valve 7. Description of Work is an ASME Code Class 2 equivalent component.

N/A

•

2-FCV-077

-0015B

Replaced

No

.

N/A

w

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A °F

د ،

35978

Velan_

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8% in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

Drywell Equipment

Drain Sump Outbd

Isolation Valve

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

Page 90 of 218

9. Remarks ASME Section XI Inservice valve tests conducted following replacement of 2-FCV-077-0015B's

Applicable Manufacturer's Data Reports to be attached wedge included surveillance instructions 2-SI-4.7.A.2.g-3/77b, Primary Containment Local Leak Rate Test - Drywell Equipment Drain Sump: Penetration X-19, 2-SI-3.2.10.J, Verification of Remote <u>Position Indicators for Radwaste System Valves, and 2-SI-4.7.D.1.a-1</u>, Primary Containment Isolation Valve Operability Test.

	CERTIFICATE OF COMPLIANCE
We certify that the statements ma	nade in the report are correct and this <u>replacement</u> conforms to the rules of the
ASME Code, Section XI.	repair or replacement
) K	1
in and a second s	
Type Code Symbol Stamp	
_ b	
Certificate of Authorization No.	N/AExpiration DateN/A
The. I-H.M.	
Signed	System Engineer Date APRIL 18 1996
· ·	
	CERTIFICATE OF INSERVICE INSPECTION
	sion issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province ofa	and employed by <u>H5BIEI</u> of
HARTFORD, CT	have inspected the components described d. <u>4/6/96</u> , and state that
in this Owner's Report during the period.	dtoto, and state that
to the best of my knowledge and belief, th	the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requ	quirements of the ASME Code, Section XI.
By signing this certificate neither the Ir	Inspector nor his employer makes any warranty, expressed or implied, concerning the
	scribed in this Owner's Report, Furthermore, neither the Inspector nor his employer
	onal injury or property damage or a loss of any kind arising from or connected with this
inspection.	
All a las	
Mon Tald	Commissions <u>7N 3135</u> 7 NV National Board, State, Province, and Endorsements
Inspector's Signature	National Board, State, Province, and Endorsements
1	•
-/ ,	
Date. 6/12/96 19	

Page 91 of 218.

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1.	Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. ^{Name}	DateOctober 30, 1995
	Chattanooga, TN 37402-2801	Sheet of 2
2.	Plant Browns Ferry Nuclear Plant Name	Unit2
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Work Order 95-06871-00 Repair Organization P.O. No., Job No., etc.
3.	Work Performed byName	Type Code Symbol Stamp <u>N/A</u>
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Expiration DateN/A
4.	Identification of System <u>System 85, Control Rod Dr</u>	Lve
5.	(a) Applicable Construction Code <u>ASME Sec. VIII</u> 19 <u>65</u> Edition	<u>Summer 1965</u> Addenda, <u>N/A</u> Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Scram Water Accumulator (2-HCU-085-18-3	General Electric Co.	H1403	N/R	3-ACC-085- 718/18-31	1978	Replaced	Yes
			•			÷	•
ي <del>يا</del> مريد ال	u						

Replaced Scram Water Accumulator 3-ACC-085-718/18-31 (which is an ASME Code 7. Description of Work <u>Class 2 equivalent component</u>)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure N/A psi Test Temp. N/A F

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

(12/82)

This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93

Page 92 of 218

9. Remarks <u>Since the replacement activity involved only the disassembly and</u> Applicable Manufacturer's Data Reports to be attached <u>reassembly of a mechanical joint, a system pressure test as defined by IWA-</u>

5211(b) [system functional test] was performed.

ţ

We certify that the statement	CERTIFICATE OF CO		t conforms to the rules of the	e
ASME Code, Section XI.		repair or replac	ement	
		τ	*. ·	
Type Code Symbol Stamp		N/A		
Certificate of Authorization No.	N/A	Expiration Date	N/A	
Signed III owner a Designee, T	- System Engine			_,
	CERTIFICATE OF INSER			
, the undersigned, holding a valid comm or Province ofEN.N	nission issued by the National	Board of Boiler and Pres	sure Vessel Inspectors and the Sta P. TNSD. +TNS, CD	ete of
· · · · · · · · · · · · · · · · · · ·	CONN		pected the components describ	
n this Owner's Report during the per	iod 4-15-94	<u>    11-3-</u>		
o the best of my knowledge and belief			orrective measures described in th	his
Owner's Report in accordance with the i	•			
By signing this certificate neither th xaminations and corrective measures				
hall be liable in any manner for any pe			• • • •	
nspection.		``		
B. F. Hu	- Commission	,9635,TN	, H-N-T.	
Inspector's Signature	Commission	National Board, St	te, Province, and Endorsements	
Date11-31	<u>9</u> <u>2</u> <u>5</u>			
	<b>,</b> ,	ι.	i -	
•				
	Page <u>93</u>	of <u>218</u>		

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS Form NIS-2 (Alternate Form for Single Chamber, Completely Shop-Fubricated Vessels Only) Sheet 2 of 2 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 W0 95-06871-00

.....

.

ALL 213 19 19 19

1. Manufactured by . 2. Manufactured for .	- General hitee				
		as Above			
3. Location of Installa					
A Tuna Vortica	1 H1403		105))613860		(Yoar Built) 1978
Horiz. or vort.	tank) (Migr's Serial I	No.) (CRN)	(Drawing No.	.) (Nat'l Brd N	0.]
5. The chemical and	physical properties of	of all parts meet the	requirements of m	naterial specificatio	ons of the ASME BOILE
AND PRESSURE VI	ESSEL CODE. The des	sign, construction, an	id workmansnip con	norm to ASME Hui	es, Section VIII, Division
1974 and Adder	Date)			•	
Special Service pe	r UG-120(d)		: Data Report		the second s
Manufacturers' Pa the following item		operly identified and	signed by Commis	ssioned Inspectors	have been furnished fo
6. Shell: MatlSA=	Nom.	Corr. . <u>. 55</u> in. Allow	in. Diam	8.70 in.Lgt	h. <u>3 ft 2.38 in</u>
(Spec. 7. Seams: Long (Weld	. No., Grade)			-	F Timoh
Girth <u>No_Weld</u>	ing Performed		R.T	ot, Partial, or Full)	No. of Courses
8. Heads: (a) Mater	(Welded, Dbi, Sng rial <u>Sa-182-</u>	-F304 c. No., Grede)	(b) Material	<u>Sa-182-</u>	F304 c. No., Grado)
Location	Min. Corr.	Crown Knuckie	Exipse Conicel	Henvisph. Flat	Side to Prossure
(Top, Bottom, End		Rectius Rectiue	Ratio Apex Angle	Radius Dian	
(a) <u>Top</u>	2.5"		····· ,		230 Flathead 230 Flathead
(b) Bottom			·····		
If removable, bolt	s used (describe othe	الحبــــ (r fastenings	0-13 Bolts-A	SME-SAL93-B	7 for Split Flan
0. Constructed for -	an allowable weeks	0 Dressure · 210		il, Spec. No., Gr., Siz	e, 190.) F. Min. temp. (when
9. Constructed for m loss than -20 F) _		drostatic, preumatic		st pressura3200	F. Ann. temp. (when
10. Safety Velve Outle	ets: Number Nones	ize <u> Locatic</u>			······································
11. Nozzles and Inspe-				•	
Purpose	Diam.		Nom.	Reinforcement	How
(niet, Outlet, Drain) N				Mati.	Attached Location
Gas Port			0455 1.060	None	<u></u>
Water Port	1.,97" Sr	plit Flng. 3	0455 1.300	None	<u>Bolts $(4)$ Tor</u>
		-			
	No tuos te	one Other		Attached	
12. Supports: Skirt	<u>No</u> tugsLo	:gsOther	(Describe)	Attached	(Where and how)
I2. Supports: Skirt	NoLugsLo sorno) (No.) Complete Mecha	(No.)	Describe) ly with No We		(Where and how)
	Comprete riecha	(No.) anical Assemb	ly with No We	elded Joints	•
Although A	Differential	(No.) anical Assemb Pressure Exis	ly with No We ts on each si	elded Joints	nternal Piston.
13. Remarks:	Differential	(No.) anical Assemb Pressure Exis is Hydrostat	ly with No We ts on each si ically tested	elded Joints	nternal Piston, iston removed.
13. Remarks:	Differential	(No.) anical Assemb Pressure Exis is Hydrostat	ly with No We ts on each si ically tested	elded Joints	nternal Piston, iston removed.
13. Remarks:	Differential	Anical Assemb Pressure Exis is Hydrostat is based on t	ly with No We ts on each si ically tested he higher de:	elded Joints	nternal Piston, iston removed.
13. Remarks:	Differential	Anical Assemb Pressure Exis is Hydrostat is based on t	ly with No We ts on each si ically tested	elded Joints	nternal Piston, iston removed.
13. Remarks:	Differential ) ator Cylinder Cest pressure	(No.) anical Assemb Pressure Exis is Hydrostat is based on t CERTIFICATE Of this report are correct	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ect and that all dota	elded Joints	nternal Piston, iston removed. e.
13. Remarks:	Differential ) ator Cylinder Cest pressure	(No.) anical Assemb Pressure Exis is Hydrostat is based on t CERTIFICATE Of this report are correct the ASME Code for P	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ect and that all deta ressure Vessels, Se	elded Joints	nternal Piston, iston removed. e.
13. Remarks:	Differential ) ator Cylinder Cest pressure statements made in s vessel conform to th	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec	ts on each side and the higher desire versely to the higher desire the higher desire versely. Second that all dots ressure versely. Second the higher desire versely. Second the	elded Joints	nternal Piston, iston removed. e. Arial, construction, and
13. Remarks:	Differential dator Cylinder ator Cylinder est pressure statements made in s vessel conform to the Signed	(No.) anical Assemb Pressure Exis is Hydrostat is based on t CERTIFICATE Of this report are corre- the ASME Code for P General Elec (Manufacturer)	ts on each si ically tested he higher des F COMPLIANCE ect and that all dota ressure Vessels, Se tric_Co by	elded Joints	Arial, construction, and
13. Remarks:	Differential dator Cylinder ator Cylinder est pressure statements made in s vessel conform to the Signed	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec	ts on each side and the higher desire versely to the higher desire the higher desire versely. Second that all dots ressure versely. Second the higher desire versely. Second the	elded Joints	Arial, construction, and
13. Remarks:	<u>Differential</u> <u>ator_Cylinder</u> <u>est_pressure</u> statements made in s vessel conform to th <u>B</u> Signed Authorization No	(No.) anical Assemb Pressure Exis is Hydrostat is based on t CERTIFICATE Of this report are corre- the ASME Code for P General Elec (Manufacturer)	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ect and that all dota ressure Vessels, Se tric_Co by expires	elded Joints	Arial, construction, and
13. Remarks: Although A the Accumul . The Hydro T We certify that the workmanship of this Date5/10/78 "U" Cortificate of A	Differential ator Cylinder est pressure statements made in s vessel conform to th S Signed Authorization No	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ect and that all dota ressure Vessels, Se tric_Co by expires	elded Joints	nternal Piston, iston removed. e. Arial, construction, and Current 2 esentative) 0, 1978
13. Remarks:	Differential ator Cylinder est pressure statements made in s vessel conform to th SSigned Authorization No General E1	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S ectric Co.	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ct and that all dots ressure Vessels, So tric_Co by expires SHOP INSPECTIO	elded Joints	Arial, construction, and <u>e</u> Arial, construction, and <u>currence</u> <u>esoniative</u> <u>0</u> , <u>1978</u>
13. Remarks:	Differential         ator       Cylinder         ator       Cylinder         cest       pressure         statements       made in         svessel       conform to th         Signed	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S ectric Co. mission issued by t	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ect and that all dots ressure Vessels, Se tric_Co by expires SHOP INSPECTIO at he National Board	elded Joints de of the I with the P sign pressur alls of deserve and thor VIII Ovision (Repu June J N Wilming of Boiler and Pres	Arial, construction, and <u>turner</u> e- e- e- e- e- e- e- e- e- e-
<ul> <li>13. Remarks:</li></ul>	Differential         ator       Cylinder         ator       Cylinder         'est       pressure         statemonts       made in         svessel       conform to th         Signed	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S ectric Co. mission issued by t Carolina an	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ct and that all dots ressure Vessels, Se tric_Cob expires SHOP INSPECTIO at he National Board d employed by,	elded Joints de of the I with the P sign pressur alls of descal, man tion VIII Ovision (Repu June I N Wilming of Boiler and Pres ept Of Labor	Arial, construction, and <u>turner</u> e- e- e- e- e- e- e- e- e- e-
<ul> <li>13. Remarks:</li></ul>	tatemonts made in statemonts made in svessel conform to th Signed Authorization No General E1 holding a valid com Province ot scribod in this Manu	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S ectric Co. mission issued by t Carolina an ufacturers' Data Rep	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ressure Vessels, Se tric_Cob Expires SHOP INSPECTIO at he National Board d employed by ort on5/10	elded Joints de of the I with the P sign pressur alls of descel, man tion VIII Division (Repu June J N Wilming of Boiler and Pres- ept Of Labor	nternal Piston, iston removed. e. Arial, construction, and <u>current 2</u> esontative) O. 1978 ton, N. C. ssure Vessel Inspectors have inspected the 978, and state that,
<ul> <li>13. Remarks:</li></ul>	tatemonts made in statemonts made in svessel conform to th Signed Authorization No General E1 holding a valid com Province ot scribod in this Manu knowlodge and beli	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S ectric Co. mission issued by t Carolina an ifacturers' Data Rep iof, the Manufacture	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ressure Vessels, Se tric_Coby Expires SHOP INSPECTIO at he National Board d employed by ort on5/10 r has constructed	elded Joints de of the I with the P sign pressur alls of descal, man tion VIII Olvision (Rep June J N Wilming of Boiler and Pres ept Of Labor this pressure ves	Arial, construction, and Arial, constructio
13. Remarks:	tatements made in statements made in svessel conform to th Signed	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S ectric Co. mission issued by t Carolina an ufacturers' Data Rep iof, the Manufacture signing this cortificat ressure vessel descri-	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ressure Vessels, Se tric_Coby Expires SHOP INSPECTIO at he National Board d employed by ort on5/10 r has constructed o neither the Inspec bcd in the Manufac	elded Joints de of the I with the P sign pressur alls of descal, man tion VIII Olvision (Rep June J N Wilming of Boiler and Pres ept Of Labor this pressure ves tor nor his omploy curors' Data Repo	Arial, construction, and <u>trial</u> , construction, and <u>tri</u>
13. Remarks:	tatements made in svessel conform to th S	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S ectric Co. mission issued by t Carolina on ifacturers' Data Rep iof, the Manufacture signing this certificat ressure vessel descritiable in any manner	Ly with No We ts on each si ically tested he higher des F COMPLIANCE ressure Vessels, Se tric_Coby Expires SHOP INSPECTIO at he National Board d employed by ort on5/10 r has constructed o neither the Inspec bcd in the Manufac	elded Joints de of the I with the P sign pressur alls of descal, man tion VIII Olvision (Rep June J N Wilming of Boiler and Pres ept Of Labor this pressure ves tor nor his omploy curors' Data Repo	Arial, construction, and Arial, constructio
13. Remarks:	tatements made in statements made in svessel conform to th Signed	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S ectric Co. mission issued by t Carolina an infacturers' Data Rep tof, the Manufacture signing this certificat ressure vessel descri- liable in any manner	Ly with No We ts on each si ically tested he higher des F COMPLIANCE F COMPLIANCE	elded Joints de of the I with the P sign pressur alle of destar, man chior VIII Ovision (Repr June 1 N Wilming of Boiler and Pres- ept Of Labor this prossure vess tor nor his omploy cturors' Data Repo njury or property of	rial, construction, and Arial, construction, and <u>transform</u> <u>ton</u> , <u>1978</u> <u>ton</u> , <u>1978</u> <u>t</u>
<ul> <li>13. Remarks:</li></ul>	tatemonts made in statemonts made in svessel conform to th Signed	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S ectric Co. mission issued by t Carolina on ifacturers' Data Rep iof, the Manufacture signing this certificat ressure vessel descritiable in any manner	Ly with No We ts on each si ically tested he higher des F COMPLIANCE F COMPLIANCE	elded Joints de of the I with the P sign pressur alls of destand, main this of destand, main (Rep June 1 N Wilming of Boiler and Pre- ept Of Labor this pressure ves for nor his omploy churors' Data Repo njury or property of NC 799.	ton, N. C. source Vessel Inspectors have inspected the 9 ZB, and state that, sol in accordance with rer makes any warranty, rt. Furthermore, neither image or a loss of any Pa, WC2L60, Of
13. Remarks:	tatements made in svessel conform to th S	(No.) anical Assemb Pressure Exis is Hydrostat is based on it CERTIFICATE Of this report are correct this report are correct the ASME Code for P General Elec (Manufacturer) 10,572 CERTIFICATE OF S ectric Co. mission issued by t Carolina an infacturers' Data Rep tof, the Manufacture signing this certificat ressure vessel descri- liable in any manner	Ly with No We ts on each si ically tested he higher des F COMPLIANCE F COMPLIANCE	elded Joints de of the I with the P sign pressur alls of destand, main this of destand, main (Rep June 1 N Wilming of Boiler and Pre- ept Of Labor this pressure ves for nor his omploy churors' Data Repo njury or property of NC 799.	rial, construction, and Arial, construction, and <u>transform</u> <u>ton</u> , <u>1978</u> <u>ton</u> , <u>1978</u> <u>t</u>

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner <u>TENNESSEE VALLEY AUTHORITY</u> 1101 Market St. ^{Name}	Date <u>May 28, 1996</u>
Chattanooga, TN 37402-2801	Sheet of5
Address	
Plant Browns Ferry Nuclear Plant	Unit2
Name P.O. Box 2000; Decatur, AL 35609-2000 Address	Work Order 95-22076-04 Repair Organization P.O. No., Job No., etc.
Work Performed by Nuclear Energy Services	Type Code Symbol Stamp       N/A         Authorization No.       N/A
Shelter Rock Road; Danbury, CT 06810	Expiration Date <u>N/A</u>
Identification of System System 85, Control Rod	Drive

6. Identification of Components Repaired or Replaced and Replacement Components

No.

14

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
See Sheets 2	through 5	ùr'∙N	* * -	o h u e u h	+	, F .	
	- ³	2	νĸ	. ?			
				-	٠		۰ -
	• K	4. 1. 1.	et.	, I			
	<u> </u>				7		
L		<u> </u>	1.1 (0	n comerce (floren)	1-41102	Compared David	I

 Replaced the main flange bolting (8 cap screws/flange) at 103 Control Rod Drive
 7. Description of Work <u>Mechanisms (CRDM) with one's having an upgraded material specification (ref. DCN</u> V35282A). CRDMs are ASME Code Class 1 equivalent components.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure <u>N/A</u>psi Test Temp. <u>N/A</u> F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8% in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 The cap screws' applicable Construction Code was USAS B31.1.0 1967 Edition as augmented by General Electric Installation Specification 22A2125.

Page 95 of 218

## 9. Remarks <u>Mechanical joint integrity of each CRDM was verified during the</u> Applicable Manufacturer's Data Reports to be attached <u>performance of 2-SI-3.3.1.A, ASME Section XI System Leakage Test Of The Reactor</u>

Pressure Vessel and Associated Piping (ASME Section III, Class 1).

We certify that the statemer ASME Code, Section XI.	CERTIFICATE OF COMPLIANCE ents made in the report are correct and this <u>replacement</u> conforms to the rules of the repair or replacement
ype Code Symbol Stamp	N/A
ertificate of Authorization No.	N/A Expiration Date N/A
igned Hills	, System Engineer Date MAY 28, 19.96
	CERTIFICATE OF INSERVICE INSPECTION
r Province of <u>TENNs</u> <u>HFRJEPO</u> this Owner's Report during the po the best of my knowledge and beli wner's Report in accordance with the	
kaminations and corrective measures	es described in this Owner's Report. Furthermore, neither the inspector nor his employer personal injury or property damage or a loss of any kind arising from or connected with this
Inspector's Signatur	Commissions <u>G635-TN</u> <u>H-N</u> National Board, State, Province, and Endorsements
ate6-5	<u>19 9 6</u>
	Page 96 of 218

√_

## FORM SSP-6 Page 1 of 1

#### **CONTINUATION SHEET FOR NIS-2**

1. Owner	TEN	INES	SEE	VALLE	<u>(aut</u>	HORIT	Y
			<b>.</b>				

- <u>1101 Market St.: Chattanooga. TN_37402-2801</u> 2. Plant <u>Browns Ferry Nuclear Plant</u> P.O. Box 2000: Decatur. AL_35609-2000
- 3. Work Performed by <u>Nuclear Energy Services</u> <u>Shelter Rock Road</u> Danbury. CT 06810

Sheet ^a	<u>2</u> 0	f <u>5</u>
Unit	2	
Work Do	cument	Work Order 95-22076-04

Type Code Symbol	Stamp ^b <u>N/A</u>
Authorization No.	N/A
Expiration Date	N/A

4. Identification of System _____ System 85. Control Rod Drive____

5. (a) Applicable Construction Code <u>ASME Section III. 1965</u> Edition, <u>Summer 1965</u> Addenda, <u>N/A</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1986</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component (CRDM at core location)	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
02-23	GE-NE	A5068	N/A	N/A	N/A	Replaced	Yes
02-27	GE-NE	A4091	N/A	N/A . 4	N/A	Replaced	Yes
02-31	GE-NE	A4419	N/A	N/A	N/A	Replaced	Yes
02-35	GE-NE	A4692	N/A	N/A	N/A	Replaced	Yes
02-43	GE-NE	A5279	N/A	N/A	N/A	Replaced	Yes
06-15	GE-NE	A4307	N/A	N/A	N/A	Replaced	Yes
06-23	GE-NE	A5073	N/A	N/A	N/A	Replaced	Yes
06-31	GE-NE	A6820	N/A	N/A	N/A	Replaced	Yes
06-35	GE-NE	A5508	N/A	N/A	N/A	Replaced	Yes
10-11	GE-NE	A5076	N/A	N/A	N/A	Replaced	Yes
10-19	GE-NE	A5149	N/A	N/A	N/A	Replaced	Yes
10-27	GE-NE	A5360	N/A	N/A	N/A	Replaced	Yes
10-39	GE-NE	A5646	N/A	N/A	N/A	Replaced	Yes
10-43	GE-NE	A4688	N/A	N/A	N/A 🕗	Replaced	Yes
10-47	GE-NE	A5666	N/A	N/A	N/A	Replaced	Yes
10-51	GE-NE	A6767	N/A	N/A	* N/A	Replaced	Yes
14-15	GE-NE	A5424	N/A	N/A	N/A	Replaced	Yes
14-27	GE-NE	A4202	N/A	N/A	N/A	Replaced	Yes
14-35	GE-NE	A4506	N/A	N/A	N/A	Replaced	Yes
14-43	GE-NE	A4702	N/A	N/A	N/A	Replaced	Yes
18-07	GE-NE	A4233	N/A	N/A	N/A	Replaced	Yes
18-15	GE-NE	A4399 ~	N/A	N/A	N/A	Replaced	Yes
18-27	GE-NE	A6823	• •N/A ••	N/A	N/A	Replaced	Yes
18-31	GE-NE	A4316	• N/A	N/A	N/A	Replaced	Yes
18-43	GE-NE	A4021	N/A	N/A	N/A	Replaced	Yes
18-55	GE-NE	A4700	N/A	N/A	N/A	Replaced	Yes
22-07	GE-NE	A3837	N/A	N/A	N/A	Replaced	Yes
22-11	GE-NE	A4141	N/A	N/A	N/A	Replaced	Yes
22-15	GE-NE	A4100	N/A	N/A	N/A	Replaced	Yes



Responsible Organization: RIMS

Retention Period: LIFETIME

Page 97 of 218

## FORM SSP-6 Page 1 of 1

## **CONTINUATION SHEET FOR NIS-2**

- 1. Owner TENNESSEE VALLEY AUTHORITY 1101 Market St.: Chattanooga, TN 37402-2801
- 2. Plant Browns Ferry Nuclear Plant P.O. Box 2000: Decatur, AL 35609-2000
- 3. Work Performed by _____Nuclear Energy Services Shelter Rock Road Danbury, CT 06810

4. Identification of System System 85. Control Rod Drive

5. (a) Applicable Construction Code ASME Section III. 1965 Edition, Summer 1965 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements ______

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component (CRDM at core location)	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
22-31	GE-NE	A5704	••• N/A	N/A	N/A	Replaced	Yes
22-43	GE-NE	A4846	N/A	N/A	N/A	Replaced	Yes
22-47	GE-NE	A2704	N/A	N/A	N/A	Replaced	Yes
22-51	GE-NE	A4239	N/A	N/A	N/A	Replaced	Yes
26-03	GE-NE	A4795	N/A	N/A	N/A	Replaced	Yes
26-07	GE-NE	A5234	N/A	N/A	N/A	Replaced	Yes
26-19	GE-NE	A4649	N/A	N/A	N/A	Replaced	Yes
26-43	GE-NE	A5431	N/A	N/A	N/A	Replaced	Yes
26-47	GE-NE	A4719	N/A	N/A	N/A	Replaced	Yes
26-55	GE-NE	8805	N/A	N/A	N/A	Replaced	Yes
30-03	GE-NE	A2271	N/A	N/A	N/A	Replaced	Yes
30-07	GE-NE	A5300	N/A	N/A	N/A	Replaced	Yes
30-19	GE-NE	A4710	N/A	N/A	N/A	Replaced	Yes
30-31	GE-NE	A5196	N/A	N/A	N/A	Replaced	Yes
30-35	GE-NE	A4814	N/A	N/A	N/A	Replaced	Yes
30-43	GE-NE	A5166	N/A	N/A	N/A	Replaced	Yes
30-47	GE-NE	8202	N/A	N/A	N/A	Replaced	Yes
30-51	GE-NE	A5590	N/A	N/A	N/A	Replaced	Yes
30-55	GE-NE	A4412	N/A	N/A	N/A	Replaced	Yes
34-03	GE-NE	A5523	N/A	N/A	N/A	Replaced	Yes
34-07	GE-NE	A5383	N/A	N/A	N/A	Replaced	Yes
34-11	GE-NE	A5549	N/A	N/A	N/A	Replaced	Yes
34-23	GE-NE	A4690	N/A	N/A	N/A	Replaced	Yes
34-35	GE-NE	A4816	N/A	N/A	N/A +	Replaced	Yes
34-43	GE-NE	8253	N/A	N/A	N/A	Replaced	Yes
34-47	GE-NE	A5539	N/A	N/A	N/A	Replaced	Yes
38-03	GE-NE	8953	N/A	N/A	N/A	Replaced	Yes
38-07	GE-NE	A5661	N/A	N/A	N/A	Replaced	Yes
38-15	GE-NE	A8649	N/A	N/A	N/A	Replaced	Yes

a. DO NOT FILL IN TOTAL NUMBER OF CONTINUATION SHEETS UNTIL THE NIS-2 FORM IS INITIATED. **b. FOR WORK PERFORMED BY CERTIFICATE HOLDER** 

Page 98 of 218

Responsible Organizartion: RIMS

**Retention Period: LIFETIME** 

Unit 2 Work Document __Work Order 95-22076-04_

Sheet^a 3 of 5

Authorization No. N/A Expiration Date N/A

Type Code Symbol Stamp^b N/A

•

3

*

#### FORM SSP-6 Page 1 of 1

## **CONTINUATION SHEET FOR NIS-2**

1.	Owner	TENNESSEE	VALLEY AU	THORITY

- <u>1101 Market St.; Chattanooga, TN 37402-2801</u> 2. Plant <u>Browns Ferry Nuclear Plant</u> P.O. Box 2000: Decatur. AL 35609-2000
- 3. Work Performed by <u>Nuclear Energy Services</u> Shelter Rock Road Danbury, CT 06810

Sheet ^a	_4	of	5
Unit	2		
Work D	ocumer	it_	Work Order 95-22076-04

Type Code Symbo	I Stamp ^b <u>N/A</u>
Authorization No.	N/A
Expiration Date	N/A

4. Identification of System <u>System 85. Control Rod Drive</u>

5. (a) Applicable Construction Code <u>ASME Section III. 1965</u> Edition, <u>Summer 1965</u> Addenda, <u>N/A</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1986</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component (CRDM at core location)	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
38-19	GE-NE	8975	N/A	N/A	N/A	Replaced	Yes
38-27	GE-NE	A5037	N/A	N/A	N/A	Replaced	Yes
38-35	GE-NE	A5660	N/A	N/A	N/A	Replaced	Yes
38-51	GE-NE	A4138	N/A	N/A	N/A	Replaced	Yes
38-59	GE-NE	A5552	N/A	N/A	N/A	Replaced	Yes
42-07	GE-NE	A5033	N/A	N/A	N/A	Replaced	Yes
42-11	GE-NE	A5077	N/A	N/A	N/A	Replaced	Yes
42-15	GE-NE	A4737	N/A	N/A	N/A	Replaced	Yes
42-19	GE-NE	A4780	N/A	N/A	N/A	Replaced	Yes
42-23	GE-NE	A5439	N/A	N/A	N/A	Replaced	Yes
42-27	GE-NE	A4425	N/A	N/A	N/A	Replaced	Yes
42-35	GE-NE	A4808	N/A	N/A	N/A	Replaced	Yes
42-39	GE-NE	A4683	N/A	N/A	N/A	Replaced	Yes
42-59	GE-NE	A5214	N/A	N/A	N/A	Replaced	Yes
46-11	GE-NE	A4638	N/A	N/A	N/A	Replaced	Yes
46-19	GE-NE	A3828	N/A	N/A	N/A	Replaced	Yes
46-35	GE-NE	A3893	N/A	N/A	N/A	Replaced	Yes
46-39	GE-NE	A4481	N/A	N/A	N/A	Replaced	Yes
46-43	GE-NE	A4822	N/A	N/A	N/A	Replaced	Yes
46-47	GE-NE	A3806	N/A	N/A	N/A	Replaced	Yes
46-51	GE-NE	A5111	N/A	N/A	N/A *	Replaced	Yes
46-55	GE-NE	A4645	N/A	N/A	N/A	Replaced	Yes
50-15	GE-NE	A3862	N/A	N/A	N/A	Replaced	Yes
50-19	GE-NE	A4824	N/A	N/A	N/A	Replaced	Yes
50-23	GE-NE	A5030	N/A	N/A	N/A	Replaced	Yes
50-27	GE-NE	A7591	, N/A	N/A	N/A	Replaced	Yes
50-31	GE-NE	A5528	N/A	N/A	N/A	Replaced	Yes
50-35	GE-NE	A4812	N/A	N/A	N/A	Replaced	Yes
50-39	GE-NE	A4788	N/A	N/A	N/A	Replaced	Yes

a. DO NOT FILL IN TOTAL NUMBER OF CONTINUATION SHEETS UNTIL THE NIS-2 FORM IS INITIATED.

b. FOR WORK PERFORMED BY CERTIFICATE HOLDER

Responsible Organization: RIMS

Retention Period: LIFETIME

Page 99 of 218

۰ . ۱ ۱ 

#### FORM SSP-6 Page 1 of 1

## **CONTINUATION SHEET FOR NIS-2**

1.	Own	er T	ENN	ESSE	E VA	LLE	Y AL	JTI	HORITY	1
			-						37402-2801	
_										

- 2. Plant <u>Browns Ferry Nuclear Plant</u> P.O. Box 2000; Decatur, AL 35609-2000
- 3. Work Performed by <u>Nuclear Energy Services</u> Shelter Rock Road Danbury, CT 06810

Sheet	· <u> </u>	of .	5			
Unit _	2					
Work I	Document	<u> </u>	/ork Or	der 95	-2207	6-04

Type Code Symbol	Stamp ^b <u>N/A</u>
Authorization No.	 N/A
Expiration Date	N/A

4. Identification of System _____ System 85. Control Rod Drive

5. (a) Applicable Construction Code <u>ASME Section III. 1965</u> Edition, <u>Summer 1965</u> Addenda, <u>N/A</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1986</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component (CRDM at core location)	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
50-43	GE-NE	A2723	N/A	N/A	N/A	Replaced	Yes
50-47	GE-NE	A5310	• N/A	N/A	N/A	Replaced	Yes
50-51	GE-NE	A5268	N/A	N/A ⁺	N/A	Replaced	Yes
54-15	GE-NE	A3467	N/A	N/A	N/A	Replaced	Yes
54-19	GE-NE	A5230	N/A	N/A	N/A	Replaced	Yes
54-23	GE-NE	A5126	N/A	N/A	N/A	Replaced	Yes
54-27	GE-NE	A4268	N/A	N/A	N/A	Replaced	Yes
54-35	GE-NE	8937	N/A	N/A	N/A	Replaced	Yes
54-39	GE-NE	A5120	N/A	N/A	N/A	Replaced	Yes
54-43	GE-NE	A5624	N/A	N/A	N/A	Replaced	Yes
54-47	GE-NE	A4837	N/A	N/A	N/A	Replaced	Yes
58-23	GE-NE	" A5662	N/A	N/A	N/A	Replaced	Yes
58-31	GE-NE	A5430	N/A	N/A	N/A	Replaced ,	Yes
58-35	GE-NE	A5443	N/A	N/A	N/A	Replaced	Yes
* 58-39	GE-NE	A5629	N/A	N/A	N/A	Replaced	Yes
58-43	GE-NE	A5034	N/A	N/A	N/A	Replaced	Yes
					·		

a. DO NOT FILL IN TOTAL NUMBER OF CONTINUATION SHEETS UNTIL THE NIS-2 FORM IS INITIATED. b. FOR WORK PERFORMED BY CERTIFICATE HOLDER

Responsible Organizartion: RIMS

Retention Period: LIFETIME

Page 100 of 218

۰ . ۱

•

• -

. . .

2

•

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS	
As Required by the Provisions of the ASME Code Section XI	

1.	Owner TENNESSEE VALLEY AUTHORITY	Date May 27, 1996
	1101 Market St.Name	1 70
	Chattanooga, TN 37402-2801	Sheet of79
2:	Plant Browns Ferry Nuclear Plant Name	⁶ Unit <u>2</u>
	P.O. Box 2000; Decatur, AL 35609-2000 Address	Work Order 95-022229-001. Repair Organization P.O. No., Job No., etc.
3.	Work Performed by Nuclear Energy Services	Type Code Symbol Stamp N/A Authorization No. N/A
	Shelter Rock Road; Danbury, CT 06810	Expiration DateN/A
	Address	v
4.	Identification of System System 85, Control Roc	l Drive
* 5.	(a) Applicable Construction Code <u>ASME Sec. III</u> 19 <u>65</u> Edi (b) Applicable Edition of Section XI Utilized for Repairs or Replace	tion, <u>Summer 1965</u> Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
See Sheets 2	& 3	5 S.				~	
				le. 		,	¥ 
		ň	÷ .	۰ . د			•
- 4 -	ιI						
				,*** we			

Replaced 38 Control Rod Drive Mechanisms (CRDM) with refurbished BWR-6 CRDMs. Also 7. Description of Work_ replaced the main flange cap screws at each of the 38 CRDM locations with "an-

	upgraded material specification (ref. DCN V35282A).	The CRDMs are ASME Code Class J
	Hydrostatic 🔲 Pneumatic 🔲 Nominal Operating Pressure 💢	equivalent components.
• • · •	Other Pressure N/A psi Test Temp. N/A °F	

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

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 The cap screws' applicable Construction Code was USAS B31.1.0 1967 Edition as augmented by General Electric Installation Specification 22A2125

Page 101 of 218

9. Remarks _____Eight cap screws were replaced at each of the 38 CRDMs (locations given on sheets 2 & 3). Applicable Manufacturer's Data Reports to be attached

<u>Mechanical joint integrity of each CRDM was verified during the performance of 2-SI-3.3.1.A, ASME</u> Section XI System Leakage Test of the Reactor Pressure Vessel and Associated Piping (ASME Section III, <u>Class 1</u>). Other tests performed to verifiy proper installation included 2-SI-4.3.B.1.a, <u>Control Rod</u> Coupling Integrity Check, and 2-SI-4.3.B.1.b, CRD Coupling Integrity Check After Refueling or Maintenance.

		repair or replacer		• 17
Type Code Symbol Stamp	N/A		<u> </u>	
Certificate of Authorization No.	Ń/A	Expiration Date	N/A	
Signed Willie Owner or Owner's Designee, 7	, System Enginee	er Date JUNE	<u>    10                                </u>	<u>9_96</u>
	CERTIFICATE OF INSERVI	CE INSPECTION		-
l, the undersigned, holding a valid common Province of	nission issued by the National Bo	ard of Boiler and Pressu	re Vessel Inspectors a	nd the State
		have inspe	cted the component	ts described
<u><i>HARTFORD</i></u> CT in this Owner's Report during the per	riod 12/5/95	<u>to</u>		d state that
to the best of my knowledge and belie Owner's Report in accordance with the	f, the Owner has performed example		rective measures desc	ribed in this
By signing this certificate neither th		• • • •		
examinations and corrective measures shall be liable in any manner for any pe	•			
nspection,				
Albert Toil	1	TNZIZE	" x 1 " " "	
Inspector's Signature	Commissions	TN 3135 National Board, State	, Province, and Endo	rsements
Date Quere 201				

)

#### Form SSP-6 Page 1 of 1

#### **CONTINUATION SHEET FOR NIS-2**

- 1. Owner <u>TENNESSEE VALLEY AUTHORITY</u> <u>1101 Market St.: Chattanooga, TN 37402-2801</u>
- 2. Plant <u>Browns Ferry Nuclear Plant</u> P.O. Box 2000: Decatur. AL 35609-2000
- 3. Work Performed by <u>Nuclear Energy Services</u> Shelter Rock Road Danbury, CT 06810

4. Identification of System _____ System 85. Control Rod Drive

5. (a) Applicable Construction Code <u>ASME Section III. 1965</u> Edition, <u>Summer 1965</u> Addenda, <u>N/A</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1986</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component (CRDM at core location)	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification (Manufacturer Model No.)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
02-19	GE - NE	A2639	N/A	7RDB144FG005	1995	Replaced	Yes
06-43	GE - NE	A5421	N/A	7RDB144FG005	1995	Replaced	· Yes
14-11	GE - NE	A5041	N/A	7RDB144FG005	1995	Replaced	Yes
14-23	GE - NE	A4023	N/A	7RDB144FG005	1995	Replaced	Yes
14-51	GE - NE	A5233	N/A	7RDB144FG005	1995	Replaced	Yes
18-23	GE - NE	A5637	N/A	7RDB144FG005	[•] 1995	Replaced	Yes
18-47	GE - NE	A4099	N/A	7RDB144FG005	1995	Replaced	Yes
18-51	GE - NE	A5535	N/A	7RDB144FG005	1995	Replaced	Yes
22-03	GE - NE	A4056	N/A	7RDB144FG005	1995	Replaced	Yes
22-27	GE - NE	A3682	N/A	7RDB144FG005	1995	Replaced	Yes
22-35	GE - NE	A4209	N/A	7RDB144FG005	1995	Replaced	Yes
22-59	GE - NE	A4743	N/A	7RDB144FG005	1995	Replaced	Yes
26-11	GE - NE	A4770	N/A	7RDB144FG005	1992	Replaced	Yes
26-27	GE - NE	A5425	N/A	7RDB144FG005	1992	Replaced	Yes
26-35	GE - NE	A4183	N/A	7RDB144FG005	1992	'Replaced	Yes
26-39	GE - NE	A5375	N/A	7RDB144FG005	1992	Replaced	Yes
26-51	GE - NE	A5642	N/A	7RDB144FG005	1992	Replaced	Yes
30-11	GE - NE	A3965	N/A	7RDB144FG005	1992	Replaced	Yes
30-27	GE - NE	· A3741 ·	N/A	7RDB144FG005	1995	Replaced	Yes
30-59	GE - NE	A3959	N/A	7RDB144FG005	1995	Replaced	Yes
34-15	GE - NE	A4779	N/A	7RDB144FG005	1995	Replaced	Yes
34-19	GE - NE	A5101	N/A	7RDB144FG005	· ' 1995	Replaced •	Yes
34-31	GE - NE	A4384	N/A	7RDB144FG005	1995	Replaced	Yes
34-39	GE - NE	A3247	N/A	7RDB144FG005	<b>، 1992</b>	Replaced	Yes
34-51	GE - NE	A4836	N/A	7RDB144FG005	1995	Replaced	Yes
38-11	GE - NE	A5658	N/A	7RDB144FG002	1988	Replaced	Yes
38-39	GE - NE	A3614	N/A	7RDB144FG005	1995	Replaced	Yes
38-43	GE - NE	A5319	N/A	7RDB144FG005	1995	Replaced	Yes
38-47	GE - NE	A5285	N/A	7RDB144FG005	1995	Replaced	Yes

a. DO NOT FILL IN TOTAL NUMBER OF CONTINUATION SHEETS UNTIL THE NIS-2 FORM IS INITIATED. b. FOR WORK PERFORMED BY CERTIFICATE HOLDER

Responsible Organization: RIMS

Retention Period: LIFETIME

Page 103 of 218

Sheet^a <u>2</u> of <u>79</u> Unit <u>2</u>

Work Document Work Order 95-022229-001

 Type Code Symbol Stamp^b
 N/A

 Authorization No.
 N/A

 Expiration Date
 N/A

•

. . ***** 

#### FORM SSP-6 Page 1 of 1

#### **CONTINUATION SHEET FOR NIS-2**

- 1. Owner <u>TENNESSEE VALLEY AUTHORITY</u> <u>1101 Market St.: Chattanooga, TN_37402-2801</u>
- 2. Plant <u>Browns Ferry Nuclear Plant</u> P.O. Box 2000; Decatur, AL <u>35609-2000</u>
- 3. Work Performed by <u>Nuclear Energy Services</u> Shelter Rock Road Danbury, CT 06810

4. Identification of System _____ System 85. Control Rod Drive

5. (a) Applicable Construction Code <u>ASME Section III. 1965</u> Edition, <u>Summer 1965</u> Addenda, <u>N/A</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1986</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Component (CRDM at core location)	Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification (Manufacturer Model No.)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
42-31	GE - NE	A5438	N/A	7RDB144FG005	1995	Replaced	Yes
42-43	GE - NE	A4448	N/A	7RDB144FG005	1995	Replaced	Yes
42-51	GE - NE	A5641	N/A	7RDB144FG005	1995	Replaced	Yes
42-55	GE - NE	A3724	N/A	7RDB144FG005	1992	Replaced	Yes
46-23	GE - NE	A4422	N/A	7RDB144FG005	1995	Replaced	Yes
46-27	GE - NE	A4604	N/A	7RDB144FG005	1995	Replaced	Yes
46-31	GE - NE	A3613	N/A	7RDB144FG005	1995	Replaced	Yes
50-11	GE - NE	A3570	N/A	7RDB144FG005	1995	Replaced	Yes
58-19	GE - NE	A3661	N/A	7RDB144FG005	1992	Replaced	Yes
		·					

a. DO NOT FILL IN TOTAL NUMBER OF CONTINUATION SHEETS UNTIL THE NIS-2 FORM IS INITIATED. • b. FOR WORK PERFORMED BY CERTIFICATE HOLDER

Responsible Organization: RIMS

Retention Period: LIFETIME

Page 104 of 218

Sheet^a <u>3</u> of <u>79</u> Unit <u>2</u>

Work Document Work Order 95-022229-001

 Type Code Symbol Stamp^b
 N/A

 Authorization No.
 N/A

 Expiration Date
 N/A



FORM NIS-2 ATTACHMENT SHEET 4 OF 79

WO # 95-022229-001

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

1 Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)				
2117 Castle Hayne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Solder )				
( Name and Address of N Certificate Bolder for completed nuclear component )				
2. Identification - Certificate Holder's S/M of Part : <u>A2639</u> Nat'l Bd. No. <u>N/A</u>				
(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Potorson				
(b) Description of Part Inspected: Control Rod Drive, Model # 7RDB144FG005				
(c) Applicable ASKE Code: Section III. Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>				
3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed)				
• Sheet 1 of 2				
Ve certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the MPT Certificate Holder for parts. An MPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report }.				
Date: 09/26/95 Signed <u>GE-NE</u> By				
Certificate of Authorization Expires: $6/16/96$ Certification of Autoorization No. : <u>NPTN - 1151</u>				
Certification of Design for Appurtenance				
Sesign information on file at GE Company, San Jose, California				
Stress analysis report on file at <u>GE Company, San Jose, California</u>				
CC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>				
OC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>				
•				
Certification of Shop Inspection				
1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>1144</u> . <u>1975</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or				
connected with this inspection.				
<u>2/26. 1995 Auron. P. Enert</u> <u>NC 1231. Ohio. WC 3686 PA</u> Date Inspector's Signature National Board, State, Province And No.				
*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (17/10)				
- 105 ( 210				
Page <u>105 of 218</u>				

i

FORM N-2 ( back )				
tems 4-8 Incl, to be completed fo				
1 Shell; Material T.S, 1.Knd & Sonc. No.1 (Min	Hominal ( Thickness in, /	Corrosion Milowance In, Dia ft	in. Length ft i	
5, Seams: Long	н.т.	R.T	EfficiencyX	
	•		No. of Courses	
o. Feads: (a) Material	T.S	(b) Haterial	, <b>t.s.</b> ,	
Sottom, Ends ) Thickness I	ladius Radius Ratio		Flat Side to Press. Diameter ( conv. or conc. )	
	(Material, Spec, Ho., T.S. Stze Humber)	Other fastening	vecnbe or stach stetch )	
7. Jacket Closure:	{ Describe as core and weld, bar, etc.	If bey give dimensions, if bolts, describe or sheld	n)	
		Charpy	Impact ft-1b	
3. Design pressure1	250 psi at	<u> </u>	p of F	
items 9 and 10 to be completed fo				
⇒ Tube Sheets: Stationary, Ma Floating, Ma	terial 0 (Nond & Score, No.) terial 0	ia. Thickness (Subject to pressure) 1a. Thickness		
10. Tubes: Material				
items 11 - 14 incl. to be complet	ed for inner chambers of jac	keted vessels, or channels of h	est exchangers.	
12. Seams: Long	Thickness in. n. of Pange Southed) H.T.	* R.T		
13reads: (a) Material				
Location Thickness	Crown Knuckle Elliptica Radius Radius Ratio	1 Concial Hemischerical Apex Angle Radius	Flat Side to Press. Diameter ( conv. or conc. )	
If removable, bolts used (a)	(b)(c)	Other fastening		
2	×	Drop W Charpy	(Describe or stach mesch) leightft-1b	
4. Design pressure	psi at	F at tem	p of F	
Items below to be completed for a	ill vessels where applicable.			
15. Safety Valve Outlets: Number	S1a	e Locati	on	
16. Kozzies: Purpose (Mist. Oudet, Dram) Numi	per Dia_ or State Ty	pe Matorial - Thickness	Periforcement , Metenel • Hoe Attached	
17. Inspection Manholes, No. Openings: Handholes, No. Threaded, No.		Location Location Location		
18. Supports: Skirt(Yee or No)		(Number) (Decoder)	-	
1 - E Poetweid Heat-Treated. 2 - Let other cleaned of external creatives in	" In concident temperature when applicable.	۰.		
all - Plate and day of constraints and high states of a				

 $\mathbf{\hat{v}}$ 

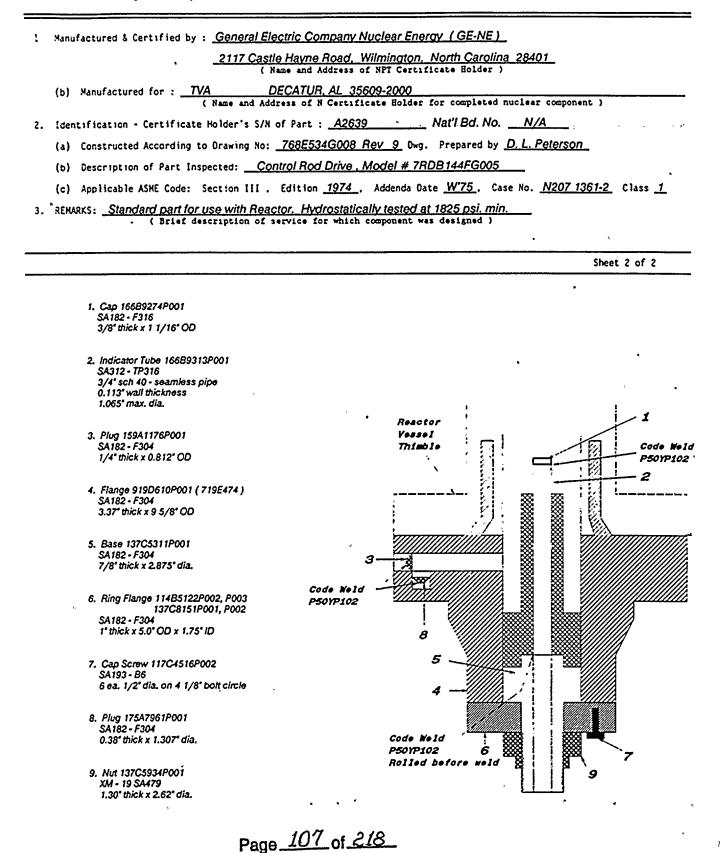
Page 106 of 218

FORM NIS-2 ATTACHMENT SHEET 5 OF 79

WD # 95-022229-001

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

0 A - 5 W



.

.

a

a second seco

- g .

• • • • •

e e

-N

	and the second
51	FORM NIS-2. ATTACHMENT
	SHEET 6 OF 79
	WO # 95-022229-001
	WOH 95-022227-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I
	1. Manufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u>
-	<ul> <li><u>2117 Castle Hayne Road, Wilmington, North Carolina 28401</u></li> <li>( Name and Address of NFT Cartificate Holder )</li> </ul>
	(b) Manufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> (Name and Address of N Certificate Bolder for completed nuclear component )
	2. Ident:fication - Certificate Holder's S/N of Part : <u>A5421</u> Nat'l Bd. No. <u>N/A</u>
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L. Peterson</u>
	(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
	(c) Applicable ASME Code: Section III, Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
	3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed)
ų	. Sheet 1 of 2
	We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ).
ė	Date: 09/26/95 Signed <u>GE-NE</u> By SC QA Representive )
	Certificate of Authorization Expires: 6/16/96 Certification of Authorization No. : <u>NPTN-1151</u>
	Certification of Design for Appurtenance
	Design information on file atGE Company, San Jose, California
	Stress analysis report on file at <u>GE Company, San Jose, California</u>
	DC22A6253 Rev. 2 * Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
9	DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	Certification of Shop Inspection
	1, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>Province</u> , <u>Pros</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
	<u></u>
	*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (*7/**)
	Page <u>108</u> of <u>218</u>

.

`~

ž

i

3

é c

. 2

12

l

1

); ;;

م محمو محمو محمو پر - 7927

Iter	as 4-3 I	ncl. to b	e comple	ted for	sing	le wall ve	ssels, jacke	ts vessels, or	shells o	f heat e	xchangers.		
		Material		r.s		Nominal Thickness Specfed)		orrosion llowance					ft
ş.	Seams:	Long			ł	н,т.' <u> </u>		R.T.			_ Effici	ency	
		Girth				•		R.T.					
-								(b) H					
					own			Concíal					
	Bottom,	n ( Top Ends )	Thickne	ss Ra	dius	Radius	Ratio	Apex Angle		<u> </u>			or conc. )
(o) 7.	if remo	Closure:			Material.	Spec. No., T.S.	Size Number )	Other faste		(0	schoe or attach	sketch )	
								l bar give dimensions,		Charpy	Impact		
3.	Design	oressure		125	50	ps	i at	575	F	at temp	of		Ĕ
:	ns 9 and	10 to be	complet	ed for	tube :	sections							
								a. (Subject 10 press a. 					
·.						····	m. (a)	CKNESS	encrise or g			'	(Str. or (
ter	ns 11 -	14 incl.	to be co	mpleted	i for	inner cham	bers of jack	eted vessels,	or channe	ls of he	at exchang	ers.	
						<u></u>				ہے			
۱,	Sheil.		nd & Spec. N			Specified)	C in. A	orrosion llowance	in. Dia.	ft.	1n.	Length _	ft
		(K	nd & Spec. h	io.) (Min.	of Range	Thickness Specified)	in. A	llowance					
		(K Lang	nd & Spec, h	io.) ( Min.	of Range	Thickness Specified) H.T.	in. A	11owance R.T.	- <u></u>		_ Effici	ency	
2.	leamsr	(K Long Girth	nd & Spec. h	io.) ( Min. ·	of Range	Thickness Specfled) H.T H.T	in. A	11owance R.T.			_ Effici _ No. of	ency Courses	
2.  .  a]	Jeans: reads: Loca Top.bot	(K Long Girth (a) Mate	ríal	(o. ) ( Min. )	of Range	Thickness Specfled) H.T. H.T. Knuck le	in. A	11owance R.T. R.T.	laterial _	erical	_ Effic) _ No. of T Flat	ency Courses .S Side t	· · · · · · · · · · · · · · · · · · ·
(a)	Teads:	(K Long Girth (a) Mate	ríal	(0.) ( Min. )	of Range	Thickness Specfled) H.T. H.T. Knuck le Radius	in. A	11owance R.T. R.T. (b) F Concial	Haterial Hemisph Radius	erical	_ Effici _ No. of T Clat Diameter	ency Courses .S Side t ( conv	o Press.
2. ;. {a}	Teads:	(K Long Girth (a) Mate	ríal	(0.) ( Min. )	of Range	Thickness Specfled) H.T. H.T. Knuck le Radius	Iliptical Ratio	R.T. R.T. R.T. (b) F Concial Apex Angle	Haterial Hemisph Radius	erical	_ Effici _ No. of T T  Olameter  (Desc ight	ency Courses .S Side t ( conv	o Press. . or conc. )
4)	leams: -eacs: `toc.bot Channel If remo	(K Long Girth (a) Mate (a) Mate (con,ends (con,ends (con,ends)) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con,ends) (con	Thickne	(0.) ( Min. )	of Range	Thickness Specified) H.T. H.T. Knuck le Radius (b)	in. A	R.T. R.T. R.T. (b) F Concial Apex Angle	Haterial Hemisph Radius er fasteni	erical ng Drop We Charpy	_ Effici _ No. of T T  Jiameter  ight Impact	ency Courses .S Side t ( conv	o Press. . or conc. )
(a)	Jeams: -reads: Loca Top.bot Channel If remo Design	(K Long Girth (a) Mate (a) Mate (con, ends (con, ends (con, ends (con, ends (con, ends) (con,	Thickne	60.) (Min. 53 Ra (a)	of Range	Thickness speched) H.T H.T Knuck le Radius  (b)	in. A	R.T. R.T. (b) P Concial Apex Angle Othe	Haterial Hemisph Radius er fasteni	erical	_ Effici _ No. of T T  Jiameter  ight Impact	ency Courses .S Side t ( conv	o Press. . or conc. ) . match)
2. (1) (0)	Jeans: -eacs: Cocca Cocnel If remo Design ms below	(K Long Girth (a) Mate it:on it:on it:on it:on ovable, bo pressure to be co	Thickne	60.) (Min. ss Ra (a) for all	of Range	Thickness Speched) H.T. H.T. Knuck le Radius (b) els where	in. A	11owance R.T. R.T. (b) P Concial Apex Angle Othe	Haterial Hemisph Radius  er fasteni	erical ng Drop We Charpy at temp	_ Effici _ No. of T T  Diameter  ight Impact of	ency Courses .S Side t ( conv	o Press. . or conc. ) . match)
(4) (5) (2)	Jeams: -eacs: toc.bot Channel If remo Design ms below Safety	(K Long Girth (a) Mate (a) Mate (con, ends (con, ends))))))))))))))))))))))))))))))))))))	Thickne	60.) (Min. ss Ra (a) for all	of Range	Thickness speched) H.T H.T Knuck le Radius  (b)	in. A	R.T. R.T. (b) P Concial Apex Angle Othe	Haterial Hemisph Radius  er fasteni	erical ng Drop We Charpy	_ Effici _ No. of T T  Jiameter  ight of n	ency Courses .S Side t ( conv 	o Press. . or conc. ) . match)
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Jeams: -eacs: toc.bot Channel If remo Design ms below Safety	(K Long Girth (a) Mate it:on it:on it:on it:on ovable, bo pressure to be co	Thickne	60.) (Min. ss Ra (a) for all	of Range	Thickness Speched) H.T. H.T. Knuck le Radius (b) els where	in. A	11owance	Aaterial Hemisph Radius er fasteni	erical ng Drop We Charpy at temp	_ Effici _ No. of T T  Diameter  ight Impact of	ency Courses .S Side t ( conv 	o Press. . or conc. ) . match)
1)	Jeams: -reads: Loca Top.bot Channel If remo Design ms below Safety Nozzles	(K Long Girth (a) Mate (a) Mate (con, ends (con,	mpleted	for all Number	rown adfus	Thickness Speched) H.T. H.T. Knuck le Radius (b) els where Dia or Size	in. A	11owance	Aaterial Hemisph Radius er fasteni	erical ng Drop We Charpy at temp Locatio	_ Effici _ No. of T T Jiameter  (Desc ight Impact of Reinforce Matenal	ency Courses .S Side t ( conv  nbe or attact	o Press. o or conc. ) n statch) ft-lt F How Attached
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Jeams: -reads: Loca Top.bot Channel If remo Design ms below Safety Nozzles	(K Long Girth (a) Mate ition ition, ends ivable, be pressure v to be co Valve Out ;: Purpose ( Outer, Dra  tion Manta	mpleted lets: N niet. n) les, holes,	60.) (Min. 50. (Min. Cr SS Ra (a) (a) For all umber Number Number No.	of Range	Thickness Specified) H. T H. T Knuck le Radius  (b) els where Cla. or Size	in. A	11owance	Hemisph Radius er fasteni F Location	erical ng Drop We Charpy at temp Locatio	_ Effici _ No, of _ T _ T _ T _ T _ T _ T _ T _ T _ T _ T	ency Courses .S Side t { conv  nbe or attact	o Press. . or conc. ) 
(a) (a) (a) (a)	Jeans: -eacs: Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Coca Co	(K Long Girth (a) Mate (a) Mate (b) Mate (c) Mat	mpleted infal Thickne  Thickne  nits used ilets: N mpleted ilets: N miet, mi = o les, ho les, aded,	Ko.) (Min. Cr ss Ra (a) for all umber Number No. No. No.	rown adfus 1 vesso	Thickness Speched) H.T. H.T. Knuck le Radius (b) e is where Cla. or Size	in. A	11owance	Haterial Hemisph Radius er fasteni F	erical ng Drop We Charpy at temp Locatio	_ Effici _ No, of _ T _ T _ T _ T _ T _ T _ T _ T _ T _ T	ency Courses .S Side t ( conv  nbe or attact	o Press. o or conc. ) homorch) ft-lt F How Atached

Page <u>109 of 218</u>

...... FÖRTN NIS-E ATTACHMENT SHEET 7 OF 19 WD#95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I 1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) 2117 Castle Hayne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) TVA DECATUR, AL 35609-2000 (b) Manufactured for : ( Name and Address of N Certificate Holder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : A5421 Nat'l Bd. No. 🚊 N/A (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson (b) Description of Part Inspected: ______ Control Rod Drive , Model # 7RDB144FG005 (c) Applicable ASME Code: Section III, Edition <u>1974</u>, Addenda Date <u>W75</u>, Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REHARKS: _Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 166B9274P001 SA182 - F316 3/8" thick x 1 1/16" OD 2. Indicator Tube 166B9313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.065° max. dia. Reactor 3. Plug 159A1176P001 Vessel SA182 - F304 Thimble Code Held 1/4" thick x 0.812" OD P501P102 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD · 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. Code Neld 6. Ring Flange 11485122P002, P003 P50YP102 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2* dia. on 4 1/8* bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38° thick x 1.307° dia. Code Weld P50YP102 6 Rolled before 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia. Page 110 of 218

-

nge tek

یر و ۱۹۹۰ او ۱۹۹۰ و سروی دور ۱۹۹

ς.

. •

. . .

.

•

ŗ

WD # 95-02229-001         FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Provision of the ASME Code Rules, Section III, Div. I         I. Hand Address of H TORN NUCLEAR PART AND APPURTENANCES' As required to the Provision of the ASME Code Rules, Section III, Div. I         I. Hand Address of H Torn Nuclear Energy (SE-NE)         Intraceste Have Reed, Wilnington, North Caroline 2801. (New and Address of H Torn Circlinet Bolder )         (b) Hand address of H Contrilient Bolder for completed auclear component)         (c) Identification for the ASME Code State for completed auclear component)         (address of H Contrilient Bolder for completed auclear component)         (address of Factoria Part on Sportenance As defined in the code of the Code o	N -	FORM NIS-2 ATTACHM. SHEET 8 OF 79
2117 Casto Hayno Road, Wilmington, North Carolina 28401. (Rese and Address of NFT Cartificate Bolder : )         (b) Manufactured for : <u>MA</u> <u>DECAUR AL</u> 358092000 (Rese and Address of M Cartificate Bolder for completed suclear component)         2. Identification - Certificate Bolder's S/N of Part : <u>A5041</u> (a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> by. Prepared by <u>D.L.Polerson</u> .         (b) Description of Part Inspected: <u>Control Rod Drive</u> , Model # TRDB144FG005 (c) Applicable ASNE Code: Section III. Edition <u>1974</u> . Addenda Date <u>WT5</u> . Cose No. <u>M207.1361-2</u> Class <u>1</u> .         3. RENARCS: <u>Standard part for uses with Reactor. Hydrostatically tested at 1825 psi. min</u> (Brief description of service for which component was designed)         Sheet 1 of 2         Ve certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASNE Code Section III. (1 the applicable Besigned Specification and Stress Report J. an NT Certificate Nolder for parts. AN NT Certification Holder for appret. (Brief description and Stress Report ): Dotter Mature In Bolder for parts. AN NT Certificate In Bolder in the code conforms to the rules of construction of the ASNE Code Section III. (1 the applicable Besigned Specification and Stress Report J. and M. Stress Report J. Standarge for parts. AN NT Certificate In Bolder for (Brief description and Stress Report ): Dotter ( <u>9726/05</u> )         Output: Standard Certificate Bolder         Output: Standard Certificate Bolder         Output: Standard Certificate Bolder         Output		SHEET 8 OF 79 WD # 95-022229-002 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I
( News and Address of NFT Certificate Bolder ; (b) Manufactured for : <u>IVA</u> <u>DECATUR, AL 35009-2000</u> ( News and Address of R Certificate Bolder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : <u>A5041</u> Nat'l Bd. No. <u>N/A</u> (a) Constructed According to Drawing No: <u>ISBE5346008 Rev 9</u> Dws. Prepared by <u>D. L. Peterson</u> (b) Description of Part Inspected: <u>Control Red Drive, Model # TRDB144F0005</u> (c) Applicable ASNE Code: Section III, Edition <u>1974</u> , Addenda Date <u>WTS</u> , Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REWARS: <u>Standard part for use with Reactor. Hydrostingtically tested at 19825 nst. min. ( 2rief description of service for which component was designed ) We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASNE Code Section III. ( The applicable Designed Specification and Stress Report are not the reponsibility of the NFI Certificate Bolder for parts. An NFI Certification Holder for parts. Report are not the reponsibility of the NFI Certificate Bolder for parts. An NFI Certification Holder for parts. ( STG Aspectence is <u>Stifted Bestor</u>) Specification and Stress Report I' the appurtenance is not included in the component Deslips Specification and Stress Report J' ( St OA Representive ) Certificate of Authorization Expires: <u>6/16/36</u> Certificate Bolder ( STC A Representive ) Certification of file at <u>GE Company</u>, <u>San Jose</u>, <u>California</u> DC2246253 Rev. 2 Design specification certified by <u>BN. Stidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18245</u> <u>0</u>C2246254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18245</u> <u>0</u>C2246254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18245</u> <u>0</u>C2246254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18245</u> <u>0</u>C2246254 Rev 1 <u>0</u>Certification of Shop Inspection</u>	<u>ـــــ</u>	Manufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u>
(b) Manufactured for : <u>IVA</u> <u>DECATUR, AL 35609-2000</u> (Nees and Address of N Certificate Bolder for completed auclear component) 2. Identification - Certificate Holder's S/N of Part : <u>A5041</u> Nat'Bd. No. <u>N/A</u> (a) Constructed According to Drawing No: <u>IG8E534G008 Rev 9</u> Deg. Prepared by <u>D.L.Peterson</u> . (b) Description of Part Inspected: <u>Control Rod Drive, Model # TRDB144F6005</u> (c) Applicable ASKE Code: Section III. Edition <u>1974</u> , Addenda Date <u>WTE</u> . Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REMARS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> ( Brief description of service for which component was designed ) Sheet L of 2 We certify that the statements in this report are correct and this werest part or apportanance as defined in the code component was designed ) Sheet L of 2 We certify that the statements in this report are correct and this werest part or apportanance as defined in the code component was designed ) Sheet L of 2 We certify that the statements in this report are correct and this werest Part or apportanance as defined in the code of function and Stress Report I for the apportanance is not included in the component Design Specification and Stress Report I for an NPT Certificate is not included in the component Design Specification and Stress Report I. Date: <u>09/26/35</u> Signed <u>GE/ME</u> of <u>Stress analysis report on file at <u>GE Company</u>. San Jose, California Stress analysis report on file at <u>GE Company</u>. San Jose, California Distass reports on file at <u>GE Company</u>. San Jose, California Distass report on file at <u>GE Company</u>. San Jose, California Distass report on file at <u>GE Company</u>. San Jose, California Distass analysis report certified by <u>B.N. Sidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> Distass analysis report certified by <u>B.N. Sidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> Distas or Province of <u>Josetsino Baset of Bobop Tin</u></u>		
2. Identification - Certificate Holder's S/N of Part : <u>A5041</u>		(b) Manufactured for : TVA DECATUR, AL_35609-2000
<ul> <li>(a) Constructed According to Drawing No: <u>T68E534G008 Rev 9</u> bug. Prepared by <u>D.L. Peterson</u>.</li> <li>(b) Description of Part Inspected: <u>Control Rod Drive, Model # TRDB144FG005</u> <ul> <li>(c) Applicable ASNE Code: Section III. Edition <u>1974</u>. Addends Date <u>WT5</u>. Case No. <u>N207 1361-2</u> Class <u>1</u>.</li> <li>REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi.min</u>. (Dried description of service for which Component was designed)</li> <li>Sheet 1 of 2</li> <li>We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASNE Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the MPI Certificate Nolder for appurtenance is not included in the component Design Specification and Stress Report I the appurtenance is not included in the component Design Specification and Stress Report.)</li> <li>Date: <u>09/26/95</u> Signed <u>GE-NE</u> by <u>Construction of Authorization No.: <u>NPTN-1151</u></u></li> <li>Certification cof Design for Appurtenance</li> <li>Design specification cof Design for Appurtenance</li> <li>Design specification cof II at <u>GE Company. San Jose. California</u></li> <li>Stress analysis report or file at <u>GE Company. San Jose. California</u></li> <li>D2226253 Rev. 2</li> <li>Design specification cortified by <u>B.N.Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u></li> </ul></li></ul>	2	
(b) Description of Pårt Inspected: <u>Control Rod Drive Model # TRDB144FG005</u> (c) Applicable ASHE Code: Section III, Edition <u>1974</u> , Addenda Date <u>WT55</u> , Case No. <u>N207 1361-2</u> Class <u>1</u> , 3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psj.min.</u> (Erief description of service for which component was designed) We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASHE Code Section III. (The applicable Designed Specification and Stress Report are the reports bill of furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By <u>(SC OR Representive)</u> Certificate of Authorization Expires: <u>6/16/36</u> , Certification of Authorization No. : <u>NPTN-1151</u> <u>Certification of Design for Appurtenance</u> Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> DC22A6233 Rev, 2 Design specification certified by <u>EN.Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6234 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <b>Certification of Shop Inspection</b> 1, the undersigned, holding a valid comission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Authorization and employed by Department of Labor of State Calif.</u> Reg. No. <u>M018646</u> <b>Certificate</b> for a pressure vessel described in his Partial Data Report of State of Province of Authorization by the National Board of Boiler and Pressure Inspectors and/or the State or Province of Authorization by the National Board of Labor of <u>State Of North Carolina</u> have inspected the part described in this Partial Data Report of State of Authorization in the Partial Data Report of State of Authorization in the Partial Data Report of State of Authorizatio	۰.	
3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi.min.</u> (Brief description of service for which component was designed) Sheet 1 of 2 Ve certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designation and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenance is not included in the component Design Specification and Stress Report ]. Date: <u>09/26/95</u> Signed <u>GE-NE</u> by (SC QA Representive) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN-1151</u> Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN-1151</u> Certification on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design information on file at <u>GE Company. San Jose. California</u> DC22A6254 Rev 1 Stress analysis report certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>MO18646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State of Province of Month Carolina and employed by <u>Department of Labor of Jates Older Archarter of Jates Older Carolina</u> have inspected the part of a presure vessel described in this Partinal Data Report of <u>Jates Older Karof Carolina</u> have inspected the part of a presure vessel described in this Partinal Data Report of <u>Jates Older Karof Yarof</u> and state that to the best of my knowledge and belief, the NPT Certificate Kolder has constructed this part in accordance with the ASKE Code Section III. By Signing this certificate, neither the Inspector nor his employer on the Englection		•
( Brief description of service for which component was designed )  Sheet 1 of 2  Ve certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ).  Date: <u>09/26/95</u> Signed <u>GE-NE</u> By ( SC OA Representive )  Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN-1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose</u> , California DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>MO18646</u> Lestification of Shop Inspection  1, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of Morth Carolina, and employed by <u>Degramment of Jacor</u> of <u>Jacor</u> have inspected the part of a pressure Vessel described in this Partial Data Report of <u>Jacor</u> have and state that to the best of my knowledge and belief, the NPT Certificate folder has constructed on polyced concerning the part of a pressure Vessel described in this Partial Data Report of <u>Jacor</u> have and state that to the best of my knowledge and belief, the NPT Certificate folder has constructed or inplied, concerning the part of a pressure Vessel Appent. Furthermore, neither the Inspector on rot is employer Certificate in the ASME Code Section III.		(c) Applicable ASHE Code: Section III, Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
Ve certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPI Certificate Holder for parts. An NPI Certification Holder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report If the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Stress Report If the appurtenance is not included in (NPT Certificate Bolder) (SC QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN - 1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company</u> , <u>San Jose</u> , <u>California</u> Stress analysis report on file at <u>GE Company</u> , <u>San Jose</u> , <u>California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Snidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I, the undersigned, holding a valid commission by the Mational Board of Boiler and Pressure Inspectors and/or the State or Province of Morth Caroling and employed by <u>Department of Labor</u> of <u>State ON orth Caroling</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>MCA</u> , <u>47.95</u> , and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, an ether the Inspector nor his employer makes any warranty, expressed or implied, concerning the part discribed in the Partial Data Report on <u>MCA</u> , <u>47.95</u> .	3.	
Ve certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPI Certificate Holder for parts. An NPI Certification Rolder for appurtenance is not included in the component Design Specification and Stress Report I. Date: <u>09/26/95</u> Signed <u>GE-NE</u> By <u>Stress Report</u> (SC QA Representive) Certificate of Authorization Expires: <u>6/16/96</u> Certificate Bolder (NPT Certificate Bolder) (SC QA Representive) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN-1151</u> <u>Certification of Design for Appurtenance</u> Design information on file at <u>GE Company</u> , <u>San Jose</u> , <u>California</u> Stress analysis report on file at <u>GE Company</u> , <u>San Jose</u> , <u>California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Snidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <u>Certification of Shop Inspection</u> I, the undersigned, holding a valid commission by the Mational Board of Boiler and Pressure Inspectors and/or the State or Province of Morth Caroling and employed by <u>Department of Labor</u> of <u>State ONOTH Caroling</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>MCA</u> , <u>2755</u> , and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, neither the Inspector on robis employer		
conforms to the rules of construction of the ASHE Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report If the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u>	<u> </u>	Sheet 1 of 2
Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>M018646</u> , <u>172.</u> <u>175.</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer	R i t	Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report 1 the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Signed (SC QA Representive )
Stress analysis report on file at <u>GE Company, San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>7722</u> , <u>775</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer	<u> </u>	Certification of Design for Appurtenance
DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <u>Certification of Shop Inspection</u> I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>M122</u> , <u>775</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer		Design information on file at GE Company, San Jose, California
Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <b>Certification of Shop Inspection</b> 1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>7/12</u> , <u>1755</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer		Stress analysis report on file at <u>GE Company, San Jose, California</u>
Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <b>Certification of Shop Inspection</b> 1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>1772</u> , <u>1775</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer		DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>1772</u> , <u>1755</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASNE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer		
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>1772</u> , <u>1755</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASNE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer		· · · · · · · · · · · · · · · · · · ·
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>112</u> , <u>175</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer		Certification of Shop Inspection
I SDAIL DE L'ADLE IN ANY MANNER FOR ANY DERSONAL INJURY OF DEODERLY DAMAGES OF A JOSS OF ANY KING ARISING FROM OF		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>2012</u> , <u>1995</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer
connected with this inspection.		connected with this inspection.
9/26. 1795 Jacone D'Erre NC 1231, Ohio, WC 3686 PA Date! Inspector's Signature National Board, State, Province And No.		9/26. 1995Jacone P E NeveNC 1231. Ohio. WC 3686 PADate:Inspector's SignatureNational Board, State, Province And No.
*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (47/90)	*SI pj R( n)	
Page_111_of_218_		Dava 111 at 210

~\$[‡]

				7	FORM N-2	( hack )			÷ .	
	ms 4-8 Incl. 1	e to be compl	eted for sin				shells of heat	exchangers.		(
				Nominal	Co	rrosion			·····	
1.	Shell: Mater	rial(Kind & Spec	T.S No.) (Min. of Ren	_ Thickness ge Specified )	1 1n, Al	lowance	in. Dia f	t 1n.	Length ft	10.
5.	Seams: Long	<u></u>		н.т.]		R.T.		Effici	ency	×
									Courses	
ē.	reads: (a) )	laterial _						¹	.s	
(a)			Crown less Radius		Ellíptical Ratio	Concial Apex Angle			Side to Press. { conv. or conc.	)
(D)	If removable.	, boits use		el, Spec. No., T.S	Stra ht safet 1	Other faste	ning	Describe or attact	abadeth 3	
7.	Jacket Closu	re:			and weld, ber, etc. #1	ber olve dimensions.	é bolta, describe or stat			
		•	·-			•	urop	Weight y Impact	ft-	· 1b
з.	Design press	2 ure	1250	ps	si at	575	F at te		°F	
::e	ms 9 and 10 to	be comple	ted for tube	sections						
<u>},</u>	Tuba Shaater	Stationa.	Watonaa		Dia		Thickness	ín. á	ttachment	
	006	Stational	y. nateria		U.a					
	000	Floating	Materia	(Kind & Sa	01a 2010 Dia	(Subject to preseu	Thickness (M) Thickness	in. 4	(Welded,	Boiled 1
		Floating	Materia		, Dia	•	Thickness	in. /	Type	
i). Ite	Tubes: Mater ms 11 - 14 inc	Floating. rial cl. to be d	Materia	0.0	, Dia in. Thic nbers of jacke	kness	Thickness inchee or gage. or channels of	in. A	Ittachment	orU1
10. Ite	Tubes: Mater ms 11 - 14 inc	Floating. rial cl. to be of rial (Mnd & Spec	Material completed for T.S .No.) (Min. of Ren	0.0 inner cham Nominal Thickness ge Specied)	, Dia in. Thic noters of jacke co in. Al	kness ted vessels, rrosion lowance	Thickness inchee or gage. or channels of in. Diaf	in. / Yumber heat exchang t.' in.	Type(Str.o	<u>arui</u> 
10. Ite	Tubes: Mater ms 11 - 14 in Shell: Mater Seams: Long	Floating. rial cl. to be o rial (Kind & Spec	Material completed for T.S .No.) (Min. of Ren	0.0 inner cham Nominal Thickness ge Specified) 1 H.T	, Dia in. Thic noters of jacke co in. Al	kness ted vessels, rrosion lowance R.T.	Thickness inchee or gage. or channels of in. Diaf	in. / Number heat exchang t.' in. Effici	Ittachment	- 10.
10. Ite	Tubes: Mater ms 11 - 14 inn Shell: Mater Seams: Long Girti	Floating. rial cl. to be of rial (Kind & Spec	Material completed for T.S .No.) (Min. of Ren	0.0 inner cham Nominal Thickness ge Speched) H.T H.T	, Dia , Dia in. Thic noters of jacke co s in. Al	kness ted vessels, f irrosion lowance R.T. R.T.	Thickness inchee or gage. or channels of in. Dia f	in. / Yumber heat exchang t,' in, Effici Yo. of	Ittachment	1n.
(0. Ite 11. 12. 13.	Tubes: Mater ms 11 - 14 ind Shell: Mater Seams: Long Girth Heads: (a) S Location Top,bottom,et	Floating. rial cl. to be o rial (Rind & Spec (Rind & Spec Material Thicks	Material	0.0. inner cham Nominal Thickness ge Specified) H.T. H.T. Knuck le	, Dia in. Thic nbers of jacke co moders in. Al	kness ted vessels, f irrosion lowance R.T. R.T.	Thickness inchee or gage. or channels of in. Dia f	in. A Number heat exchang t,' in, Effici No. of	Ittachment	
:0. Ite II. I2. I3.	Tubes: Mater ms 11 - 14 inu Shell: Mater Seams: Long Girti Heads: (a) S Location	Floating. rial cl. to be of rial (Kind & Spec Material Material	T.S T.S No.) (Min. of Ren Crown ness Radius	0.0. inner cham Nominal Thickness ge Specified) 1 H.T. H.T. Knuck le Radius	, Dia in. Thick movers of jacke cos in. Al T.S. Elliptical	kness ited vessels, for invance R.T. R.T. R.T. (b) M. Concial Apex Angle	Thickness inchee or gage. or channels of in. Dia f laterial Hemispherical	in. A Number heat exchang t,' in. Effici No. of I Flat D:ameter	Ittachment	
(0. Ite 11. 12. 13.	Tubes: Mater sms 11 - 14 inn Shell: Mater Seams: Long Girt! Heads: (a) : Location Top,bottom,ei Channel	Floating. rial cl. to be of rial (Kind & Spec Material Material	T.S T.S No.) (Min. of Ren Crown ness Radius	0.0. inner cham Nominal Thickness ge Specified) 1 H.T. H.T. Knuck le Radius	, Dia in. Thick movers of jacke contractions T.S Elliptical Ratio	kness ited vessels, for invance R.T. R.T. R.T. (b) M. Concial Apex Angle	Thickness inches or gage. or channels of in. Dia f laterial Hemispherical Radius  r fastening Orop 1	in. / Number heat exchang t.' in. Effici No. of i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i 	Ittachment	- 1n.
<ul> <li>11.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>(a)</li> <li>(b)</li> </ul>	Tubes: Mater ms 11 - 14 inn Shell: Mater Seams: Long Girt: Heads: (a) S Location Top,bottom.er Channel If removable	Floating. rial cl. to be of rial (Kind & Spec Material Material Thicks  , bolts use	Material completed for 	0.0. inner cham Nominal Thickness ge Specified) H.T. H.T. Knuck le Radius (b)	, Dia in. Thick movers of jacke contractions T.S Elliptical Ratio	kness ited vessels, for invance R.T. R.T. R.T. (b) M. Concial Apex Angle  Other	Thickness inchee or gage. or channels of in. Dia f laterial Hemispherical Radius  r fastening Orop J Charp.	in. A Number heat exchang t,' in. Effici No. of I Flat D:ameter  Veight	Type	- 1n.
<ol> <li>Iter</li> <li< td=""><td>Tubes: Mater ms 11 - 14 inn Shell: Mater Seams: Long Girt: Heads: (a) S Location Top,bottom.er Channel If removable</td><td>Floating. rial cl. to be of rial (Nind &amp; Spec Material Material Thickn , bolts use ure</td><td>Material completed for </td><td>0.0 inner cham Nominal Thickness ge Specfied) H.T H.T H.T Knuck le Radius</td><td>psi at</td><td>kness ited vessels, for invance R.T. R.T. R.T. (b) M. Concial Apex Angle  Other</td><td> Thickness  inchee or gage. or channels of in. Dia f laterial Hemispherical Radius  r fastening Orop J Charp.</td><td>in. A Number heat exchang t,' in.  Effici  No. of  I Flat D:ameter  Veight</td><td>Ittachment</td><td>- 1n.</td></li<></ol>	Tubes: Mater ms 11 - 14 inn Shell: Mater Seams: Long Girt: Heads: (a) S Location Top,bottom.er Channel If removable	Floating. rial cl. to be of rial (Nind & Spec Material Material Thickn , bolts use ure	Material completed for 	0.0 inner cham Nominal Thickness ge Specfied) H.T H.T H.T Knuck le Radius	psi at	kness ited vessels, for invance R.T. R.T. R.T. (b) M. Concial Apex Angle  Other	Thickness inchee or gage. or channels of in. Dia f laterial Hemispherical Radius  r fastening Orop J Charp.	in. A Number heat exchang t,' in. Effici No. of I Flat D:ameter  Veight	Ittachment	- 1n.
10. Ite 11. 12. 13. (b) 14. Ite	Tubes: Mater ms 11 - 14 inn Shell: Mater Seams: Long Girt: Heads: (a) : Location Top,bottom,e: Channel If removable Design press: ms below to bi	Floating. rial cl. to be of rial (Kind & Spect Material Material Material bolts use ure e completed	Material completed for 	0.0. inner cham Nominal Thickness ge Specified) H.T. H.T. Knuck le Radius (b) (b)	psi ata Dia Dia Dia	kness ted vessels, for invance R.T. R.T. R.T. (b) M Concial Apex Angle  Other	Thickness inches or gage. or channels of in. Dia f laterial Hemispherical Radius  r fastening Orop t Charp F at tee	in. A Number heat exchang t,' in. Effici No. of I Flat D:ameter  Veight mp of	Ittachment	xui
<ol> <li>11 er</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>(2)</li> <li>14.</li> <li>11 er</li> <li>15.</li> </ol>	Tubes: Mater ms 11 - 14 inn Shell: Mater Seams: Long Girt! Heads: (a) S Location Top.bottom.er Channel If removable Design press ms below to bu Safety Valve Nozzles: Pupp	Floating. rial cl. to be of rial (Kind & Spect Material Material Material bolts use 2 ure e completed Outlets:	Material completed for 	0.0. inner cham Nominal Thickness ge Specified) H.T. H.T. Knuck le Radius (b) (b)	psi at	kness ted vessels, for invance R.T. R.T. R.T. (b) M Concial Apex Angle  Other	Thickness inchee or gage. or channels of in. Dia f laterial Hemispherical Radius  fastening Charp. F at ter Locat	in. A Number heat exchang t,' in. Effici No. of I Flat D:ameter  Veight mp of	Ittachment	xui
<ul> <li>11.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>(13).</li> <li>(14).</li> <li>11.</li> <li>(14).</li> <li>11.</li> <li>(15).</li> </ul>	Tubes: Mater ms 11 - 14 inn Shell: Mater Seams: Long Girt! Heads: (a) S Location Top.bottom.er Channel If removable Design press ms below to bu Safety Valve Nozzles: Pupp	Floating. rial cl. to be of rial (Kind & Spect Material Material Material Material bolts use vere e completed Outlets: pee (Met.	Material completed for 	0.0 inner cham Nominal Thickness ge Specified) H.T H.T Knuck le Radius (b) isels where	psi at	kness ted vessels, rrosion lowance R.T. R.T. (b) M Concial Apex Angle  Other 	Thickness inchee or gage. or channels of in. Dia f laterial Hemispherical Radius  fastening Charp. F at ter Locat	in. A Number heat exchang t.' in. Effici No. of I Flat D:ameter  Veight y Impact To of Renford	Ittachment	xui
(b)	Tubes: Mater rms 11 - 14 inn Shell: Mater Seams: Long Girt! Heads: (a) : Location Top,bottom,e: Channel If removable Design pressi rms below to bi Safety Valve Nozzles: Pump Code Code Location I Openings: 1	Floating. rial cl. to be of rial (Kind & Spect Material Material Material Material the bolts use ure e completed Outlets: pare (Inlet, r, Doin) Manholes,	Material Completed for T.S. No.) (Min. of Ran Crown ness Radius crown di for all ves Number Number	0.0 inner cham Nominal Thickness ge Speched) H.T. H.T. Knuck le Radius  (b) usels where	Dia in. Thick mbers of jacke in. Al in. Al T.S T.S Elliptical Ratio (c) psi at applicable. Size	kness ited vessels, for the second s	Thickness inchee or gage. or channels of in. Dia f laterial Hemispherical Radius r fastening Charp, F at ter Locat Thickness	in. A Yumber heat exchang t.' in Effici No. of I I I I I I I I I I I	Ittachment	xU1
<ul> <li>11.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>(a)</li> <li>(b)</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> </ul>	Tubes: Mater ms 11 - 14 inn Shell: Mater Seams: Long Girti Heads: (a) S Location Top.bottom.er Channel If removable Design press: ms below to br Safety Valve Nozzles: Pupp Code inspection 1 Openings:	Floating. rial cl. to be of rial cl. to be of rial (Kind & Spect Material Material Material Material thicks made bolts use 2 ure e completed Outlets: see (Mek, k, Drain) Manholes, Handholes, Kirt	Material Mat	0.0 inner cham Nominal Thickness ge Speched) H.T. H.T. Knuckle Radius (b) isels where	psi at	kness ited vessels, f rrosion lowance R.T. R.T. (b) M Concial Apex Angle  Other Meternal	Thickness inches or gage. or channe is of in. Dia f laterial Hemispherical Radius Fastening Fat ter Locat Thickness Locat Location	in. A Yumber heat exchang t,' in, Effici No. of I flat Oo I flat Y Impact To of I non Renforce Marenal	Ittachment	xU1

		•		0	SHEET 9	•
						022229-001
	FORM N-2 NPT As requ	CERTIFICATE HOL ired by the Pro	DERS'DATA REPO	RT FOR NUCLEAN SME Code Rules	PART AND A	NPURTENANCES* III, Div. I
			<del></del>			
1.	Manufactured & Cer		I Electric Company N			
		<u>2117 C</u>	Castle Hayne Road. V	<u>Vilmington, North (</u> 2 NPT Certificate B	Carolina 2840	1
	(b) Manufactured	for : TVA	DECATUR. AL 350 Address of N Certifi	509-2000		
2.	Identification - (		S/N of Part : <u>A5041</u>			,
			No: <u>768E534G008 /</u>			
			Control Rod Drive , I			
						<u>N207_1361-2</u> _ Class <u>1</u>
3.	REMARKS: <u>Standai</u>	rd part for use with R	Reactor. Hydrostatics	ally tested at 1825 p	si. min.	
		( Brief description of	of service for which	component was desig	ned ) .	
		,				Sheet 2 of 2
						·
	1. Cap 16689	274P001				
	SA182 - F31 3/8" thick x	16 1				
	-,					
	2. Indicator Tu SA312 • TP3	ube 16689313P001	*			L.
	3/4° sch 40	- seamless pipe				
	0.113° wali ti 1.065° max.					
				Reactor		1
	3. Plug 159A1 SA182 - F30			Yessel : Thimble ⁴	n	Code No.
	1/4" thick x (			•		1 P5017P10
	4 Flance 919	D610P001 (719E474 )		`.		2
	SA182 - F30	4		·		₩
	3.37° thick x	9 5/8° OD				
	5. Base 137C:	5311P001		` <i>`</i>		
				3 <u>3</u>		88 · //////////////////////////////////
	SA182 - F30					
						× <i>1////////////////////////////////////</i>
	SA182 - F30 7/8° thick x :	• 11485122P002, P003	Code Neid P50YP102			
	SA182 - F30 7/8° thick x :	137C8151P001, P002				
	SA182 - F30 7/8* thick x : 6. Ring Flange SA182 - F30	137C8151P001, P002				
	SA182 - F30 7/8" thick x : 6. Ring Flange SA182 - F30 1" thick x 5.0	137C8151P001, P002 H D' OD x 1.75° ID				
	SA182 - F30 7/8" thick x : 6. Ring Flange SA182 - F30 1" thick x 5.0 7. Cap Scrow SA193 - B6	137C8151P001, P002 4 5 OD x 1.75°ID 117C4516P002				
	SA182 - F30 7/8" thick x : 6. Ring Flange SA182 - F30 1" thick x 5.0 7. Cap Scrow SA193 - B6	137C8151P001, P002 H D' OD x 1.75° ID				
	SA182 - F30 7/8" thick x : 6. Ring Flange SA182 - F30 1" thick x 5.0 7. Cap Scrow SA193 - B6 6 ea. 1/2" di 8. Plug 175A7	137C8151P001, P002 4 5' OD x 1.75' ID 117C4516P002 ia. on 4 1/8' bolt circle 961P001				
	SA182 - F30 7/8" thick x : 6. Ring Flange SA182 - F30 1" thick x 5.0 7. Cap Screw SA193 - B6 6 ea. 1/2" di	137C8151P001, P002 4 5' OD x 1.75' ID 117C4516P002 ia. on 4 1/8' bolt circle 961P001 4				
ł	SA182 - F30 7/8" thick x : 6. Ring Flange SA182 - F30 1" thick x 5.0 7. Cap Screw SA193 - B6 6 ea. 1/2" di 8. Plug 175A7: SA182 - F30	137C8151P001, P002 4 5' OD x 1.75' ID 117C4516P002 ia. on 4 1/8' bolt circle 961P001 4		P501P102		
z	SA182 - F30 7/8" thick x : 6. Ring Flange SA182 - F30 1" thick x 5.0 7. Cap Screw SA193 - B6 6 ea. 1/2" di 8. Plug 175A7: SA182 - F30	137C8151P001, P002 1 10 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P002 117C4516P001 117C4516P001 117C4516P001 117C4516P001		-		

FROM NIS-2 ATTACHMENT SHEET 10 OF 79 WO # 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I 1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) 2117 Castle Hayne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) (b) Manufactured for : _TVA DECATUR, AL 35609-2000 ( Name and Address of N Certificate Holder for completed nuclear component ) Nat'l Bd. No. N/A (a) Constructed According to Drawing No: <u>768E534G008_Rev_9</u>_Dwg. Prepared by <u>D.L. Peterson</u> (b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u> (c) Applicable ASME Code: Section III. Edition 1974. Addenda Date W75. Case No. N207 1361-2 Class 1 3. REWARKS: Standard part for use with Reactor, Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASHE Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). GE-NE By _ Date: 09/26/95 Signed _ ( NPT Certificate Holder ) SC OA Representive ) Certificate of Authorization Expires: 6/16/96 Certification of Authorization No. : <u>NPT N - 1151</u> Certification of Design for Appurtenance GE Company, San Jose, California Design information on file at ____ stress analysis report on file at <u>GE Company</u>, San Jose, California OC22A6253 Rev. 2 Design specification certified by _B.N. Sridhar Prof. Eng. State Calif. Reg. No. 18345 0C22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>977</u>, <u>1795</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. 9/26. 1995 Junne of Enerco Inspector's Signature NC 1231, Ohio, WC 3686 PA National Board, State, Province And No. *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3: "REMARKS".

(47/90)

Page 114 of 218

	×.						
	۰	N. 3	FORM N-2				
	s 4-8 Incl. to be complet						
1.	Shell: Material	Nomina T.S Thickr o.) (Min. of Range Specified	ni Co ness in. Ai ni	prosion * Nowance in. D	ia ft	in. Length i	t in.
5.	Seams: Long	н.т.		R.T	Ef	ficiency	X
	Girth	н.т.			No	. of Courses	<b>-</b>
<b>5</b> .	Heaos: (a) Material	<u></u>	T.S	(b) Hateri	ai	T.S	<b></b> .
	Location ( Top Bottom, Ends ) ⁻ Thicknes	ss Radius Radiu		Concial Hem Apex Angle Rad			
	if removable, bolts used	(Material, Spec. No		Other fastening	(Describe or	attach sketch }	
1.	Jacket Closure:		gee and weld, ber, etc. I	bar give dimensione, if boits,	describe or sketch )		
а.	Cesign pressure	1250	osi at	575 °F	•		ft-lb F
	s 9 and 10 to be complete						
					Thickness in.	Attachment	<del></del>
•	Tube Sheets: Stationary	Haterial	A Spec. No.)	(Subject to pressure)	Thickness in.	Attachment	Neided, Boiled )
•1	Tubes: Material						
							(Str. or U)
Iten	s 11 - 14 incl. to be co	mpleted for inner (	chambers of jack	eted vessels, or ch	annels of heat exc	hangers.	
11.	Shell: Material	Nomin T.S Thicks to.) (Min. of Pange Specified	ness in. A	prrosion 1lowance in. D	ia ft	in. Length 1	't in
12.	Seams: Long	н.т. ¹		R.T	Ef	ficiency	x
	Girth	н.т.		R.T	No	. of Courses	
13.	Heads: (a) Material		T.S	(b) Hateri	al	t.s	
	Top, bottom, ends	Crown Knuc ss Radius Radi	kle Elliptical us Ratio		lispherical Flat lius Diame		
(0)	Channel If removable, bolts.used	(a)(b)_	(c)	Other fas	tening	(Describe or attach sketch	<u>د</u>
					Drop Veight		7t-16
	2				0	·	
	Oesign pressure				_ Fat temp of _		F
	Safety Valve Outlets: N						
	Nozzles: Purpose (inter,	daber	Size	,	Location	· · · · · · · · · · · · · · · · · · ·	
10.	Outer, Drain)	Number Dia. c	r Size Type	Material		atenal How	Attached
17.	Openings: Handholes,	No No No	Size Size Size	Locat Locat Locat Locat	ion ion ion		
18.	Supports: Skirt			Other			
	(Yes or 1 - If Postweid Hest-Treated, 2 - List other internal or external pre-		·	(Number)	(Describe)	(Where	& How)
	- On And results of articling bat	and a sum of drive search of the other of		<b>,</b> •			• ·
			Page <u>115</u>	_of_ <u>218_</u>			

١,

WO# 95-02229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

FORM NIS-2 ATTACHMENT

SHEET 11 OF 79

:,		ectric Company Nuclear Energy (GE-NE)
		<u>e Hayne Road, Wilmington, North Carolina 28401</u> ame and Address of NPT Certificate Bolder )
		ECATUR, AL 35609-2000 ress of N Certificate Bolder for completed nuclear component )
,		of Part : <u></u>
		768E534G008 Rev 9 Dwg. Prepared by <u>D. L. Peterson</u>
	(b) Sescription of Part Inspected: <u>Cont</u>	
		Edition <u>1974</u> . Addenda Date <u>W'75</u> . Case No. <u>N207 1361-2</u> Class <u>1</u>
3.		tor. Hydrostatically tested at 1825 psi. min.
•••		ervice for which component was designed )
		Sheet 2 of 2
		•
	1. Cap 166B9274P001 SA182 - F316	
	3/8" thick x 1 1/16" OD	
	2. Indicator Tube 166B9313P001	۰.
	SA312 - TP316 3/4° sch 40 - seamless pipe	
	0.113° wall thickness	
	1.065° max. dia.	
	3. Plug 159A1176P001	Reactor Vessel
	SA182 - F304 1/4° thick x 0.812° OD	Thimble Code PSOY
	4. Flange 919D610P001 (719E474)	
	SA 182 - F304 3.37° thick x 9 5/8° OD	
	5. Base 137C5311P001	<i></i>
	SA 182 - F304 7/8* thick x 2.875* dia.	3
	.,	
	6. Ring Flange 114B5122P002, P003	Code Weld
	137C8151P001, P002 SA182 - F304	
	1° thick x 5.0° OD x 1.75° ID	8
	7. Cap Screw 117C4516P002	5
	SA193 - 86	
	6 ea. 1/2º dia. on 4 1/8º bolt circle	4
	8. Plug 175A7961P001	•
	SA182 - F304 0.38° thick x 1.307° dia.	Code Weld
		P501P102 6 888 8
	9. Nut 137C5934P001 XM - 19 SA479	Rolled before weld 8 9

Page 116 of 218

•

•

۰ •

•

,

•

" " . "

- ? ~ / ·	and a few of a few of the few of
* 1	FORM NIS-2 ATTACHMENT
	SHEET 12 OF 79
	<i>WO # 95-02229-001</i> FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I
-	1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
	<u>2117 Castle Havne Road. Wilmington, North Carolina 28401</u> ( Name and Address of NPT Certificate Holder )
	(b) Manufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> ( Name and Address of N Certificate Holder for completed nuclear component )
	2. Identification - Certificate Holder's S/N of Part : <u>A5233</u> <u>Nat'l Bd. No. N/A</u>
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L. Peterson</u>
	(b) Description of Part Inspected: <u>Control Rod Drive</u> , Model # 7RDB144FG005
	(c) Applicable ASHE Code: Section III , Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
	3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed)
	Sheet 1 of 2
	Ve certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> ( MPT Certificate Holder ( SC QA Representive )
	Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN - 1151</u>
	Certification of Design for Appurtenance
	Design information on file atGE Company, San Jose, California
ч.	Stress analysis report on file atGE Company, San Jose, California
	OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
	OC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	Certification of Shop Inspection
•	I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>115</u> , <u>115</u> , <u>115</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASNE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or
	Prove     NC 1231, Ohio, WC 3686 PA       Date     Inspector's Signature     National Board, State, Province And No.
	*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (*/*)
	Page <u>117</u> of <u>218</u>

FORM N-2 ( back )

لا سر ۱۰

3

`); ; ;

و مر ال^عر مو ط

1

A . 8

• •

	Shell:	Hater	ia1	_ T.S.		Nominal Thickness	in, A	Corrosion	in. Dia	ft.	in. L	ength	_ ft
			(Kind & Spec.	No.) (Min	r. of Range	Specified)							
<b>.</b>	Seams:	Long	4		ا	H.T.,		R.Ţ.					
		Girth			1			R.T.			_ No. of	Courses	
; <b>.</b>	Heads:	(a) Ma	aterial _				T.S	(b) M	lateria] _		T.	s	
	Locatio Bottom,	n ( Toj Ends	) ) Thickn		Crown Radius	Knuck le Radius		l Concial Apex Angle		erical	Flat Diameter		Press. or conc. )
a) b)								Other faste					
			bolts use		( Material,	Spec. No., T.S.				(0•	scribe of attach :	Poetch )	
•	Jacket	Closure	e:		(Dee	cnbe as oges a	nd weld, ber, etc.	If bar give dimensions,	if bolts, describ	e or sketch	)		
										Drop Ve Charpy	ight Impact		ft-16
	<b>D</b>	· · · ·	2 re	•	250	` 	1.31	575	°F	at temo	of	•	۴
			be comple						<b>T</b> L 7 - 1				
•	Tube Sh	eets:	Stationar	ry. Ha	terial	(Kind & Sp	0 xec. No. )	ia. (Subject to press ia.	Inici	kness	IN. A	ttacrment	(Welded, Bo
			Floating.	. Ka	terial		0	ia	Thic	kness _	in. A	ttachment	
	Tubes:	Mater	fa1			0.D	in. Th	ickness	inches or g	nge. Nu	mber	זאַ	pe
												<u> </u>	(00.000
										le of he	at avchang		
						Nominal		keted vessels, Corrosion					
ι.	Shell:	Mater			in, of Rung	Nominal Thickness Specified)	: in.		in. Dia.	ft.	in.	Length	
ι.	Shell:	Mater Long	ia](Kind & Spec	T.S. =_ No. ) (Mi	in, of Peng	Nominal Thickness Specified) H.T.	: in.	Corrosion Allowance R.T.	in. Dia.	ft.	in.	Length	
1. 2.	Shell: Seams:	Hater Long Girth	ria]()Ond & Spec	T.S. No.)(#	in, of Reng	Nominal Thickness Specified) H.T. H.T.	: in,	Corrosion Allowance R.T. R.T.	in. Dia.	ft.	in.   Effici No. of	ency	
2.	Shell: Seams: Heads:	Mater Long Girth (a) M ation	ial (Kind & Spec  laterial Thícki	T.S. _ Na.) (Mi	in, of Reng	Nominal Thickness Specied) H.T. H.T. Knuckle	T.S	Corrosion Allowance R.T.	in. Dia.  Material Hemisph	ft.	in. I Efficion No. of T Flat Diameter	Length ency Courses .S Side to ( conv.	
3.	Shell: Seams: Heads: Loca Top.bol	Mater Long Girth (a) M ation ttom.en	ial (Kind & Spece a laterial Thícki dds	T.S. No. ) (Mi	in, of Renge	Nominal Thickness Specfied) H.T. H.T. Knuckle Radius	T.S Elliptica Ratio	Corrosion Allowance R.T. R.T. (b) 1 Concial Apex Angle	in. Dia. Haterial Hemisph Radius	ft.	in.   Efficion No. of T Flat Diameter 	Length ency Courses .S Side to ( conv.	Press. or conc. )
3.	Shell: Seams: Heads: Loca Top.bol	Mater Long Girth (a) M ation ttom.en	ial (Kind & Spece a laterial Thícki dds	T.S. No. ) (Mi	in, of Renge	Nominal Thickness Specfied) H.T. H.T. Knuckle Radius	T.S Elliptica Ratio	Corrosion Allowance R.T. R.T. (b) 1 Concial	in. Dia. Haterial Hemisph Radius	ft. erical	in. I Efficie No. of T Flat Diameter  (Desc	Length ency Courses .S Side to ( conv.	Press. or conc. )
3.	Shell: Seams: Heads: Loca Top.bol	Mater Long Girth (a) M ation ttom.en	ial (Kind & Spece laterial Thickings bolts usi	T.S. No. ) (Mi	in, of Renge	Nominal Thickness Specfied) H.T. H.T. Knuckle Radius	T.S Elliptica Ratio	Corrosion Allowance R.T. R.T. (b) 1 Concial Apex Angle	in. Dia. Haterial Hemisph Radius	erical	in. I Efficie No. of T Flat Diameter  (Desc	Length ency Courses .S Side to ( conv. 	Press. or conc. ) whench)
(a) (b)	Shell: Seams: Heads: Loca Top.bol	Mater Long Girth (a) M ation ttom,en I povable,	ial (Kind & Spece laterial Thicking bolts using 2	T.S. No. ) (Mi	in, of Renge	Nominal Thickness Specified) H.T. H.T. Knuckle Radius (b)	1.S Elliptica Ratio (c)	Corrosion Allowance R.T. R.T. (b) 1 Concial Apex Angle	in. Dia. Material Hemisph Radius er fasteni	erical	in. I Efficion No. of T Diameter  Light	Length ency Courses .S Side to ( conv. 	Press. or conc. )
(a)	Shell: Seams: Heads: Loca Top.bot Channe If reno Design	Mater Long Girth (a) M ation ttom.en I pvable,	(Kind & Spece (Kind & Spece laterial laterial Thicking bolts using ure	T.S. (Mi  ness  ed (a)	Crown Radius	Nominal Thickness Specified) H.T. H.T. Knuck le Radius (b)	1.S Elliptica Ratio (c)	Corrosion Allowance R.T. R.T. (b) I Concial Apex Angle  Oth	in. Dia. Material Hemisph Radius er fasteni	ft. erical ng Drop Ve Charpy	in. I Efficion No. of T Diameter  Light	Length ency Courses .S Side to ( conv. 	Press. or conc. ) whench)
(a) (b)	Shell: Seams: Heads: Loca Top.bot Channe If renc Design ms below	Mater Long Girth (a) M ation ttom.en ) pressu	ial (Kind & Spece laterial Thicks bolts use bolts use ure complete	T.S. 	Crown Radius	Nominal Thickness Specied) H.T. H.T. Knuckle Radius (b) Sels where	T.S T.S Elliptica Ratio (c) psi at applicable.	Corrosion Allowance R.T. R.T. (b) I Concial Apex Angle Othe	in. Dia. Material _ Hemisph Radius er fasteni	ft. erical ng Orop Ve Charpy at temp	in. I Efficion No. of T Flat Diameter  (Oesc light Impact 0 of	Length ency Courses .S Side to ( conv.	Press. or conc. ) ft-12 ft-12 ft-12
a) b)	Shell: Seams: Heads: Loca Top.bot Channe If renc Design ms below Safety	Mater Long Girth (a) M ation ttom,en bovable, pressu v to be Valve	ial (Rnd & Spece laterial Thicks bolts use bolts use ure Outlets:	T.S. 	Crown Radius	Nominal Thickness Specied) H.T. H.T. Knuckle Radius (b) Sels where	T.S T.S Elliptica Ratio (c) psi at applicable.	Corrosion Allowance R.T. R.T. (b) I Concial Apex Angle  Oth	in. Dia. Material _ Hemisph Radius er fasteni	ft. erical ng Orop Ve Charpy at temp	in. I Efficion No. of T Flat Diameter  (Desc  ight Impact o of	Length ency Courses .S Side to ( conv.	Press. or conc. ) ft-12 ft-12 ft-12
a) b)	Shell: Seams: Heads: Loca Top.bot Channe If renc Design ms below	Mater Long Girth (a) M ation ttom,en boable, pressu w to be Valve s: Purpo	ial (Rnd & Spece laterial Thicks bolts use bolts use ure Outlets:	T.S. 	Crown Radius	Nominal Thickness Specied) H.T. H.T. Knuckle Radius (b) Sels where	I.S T.S Elliptica Ratio (C) psi at applicable. Siz	Corrosion Allowance R.T. R.T. (b) I Concial Apex Angle Othe	in. Dia. Haterial Hemisph Radius er fasteni F	ft. erical ng Orop Ve Charpy at temp	in. I Efficion No. of T Flat Diameter  (Oesc light Impact 0 of	Length ency Courses .S Side to ( conv.	Press. or conc. ) ft-12 ft-12 ft-12
a))	Shell: Seams: Heads: Loca Top.bot Channe If rend Design ms belon Safety Nozzle:	Mater Long Girth (a) M ation ttom.en bovable, pressu valve s: Purpo Cucher Lion H	ial (Kind & Spece alaterial Thicks ds bolts use bolts use complete Outlets: see (Inlet, Comin)  danholes.		Crown Radius	Nominal Thickness Specified) H.T. H.T. Knuckle Radius (b) sels where Dia or Stre	<pre>in. in. T.S Elliptica Ratio(c) psi at applicable Siz Size</pre>	Corrosion Allowance R.T. R.T. (b) 1 Concial Apex Angle Other Other Pe	in. Dia.	ft. erical Orop Ve Charpy at temp Locatio	in. I Efficion No. of T Flat Diameter  (Oesc light Impact o of Metenal	Length ency Courses .S Side to ( conv.  mbe or attach i	Press. or conc. ) htmch) ft-ll o F How Atlached
(a) (b)	Shell: Seams: Heads: Loca Top.bot Channe If rend Design ms belon Safety Nozzle:	Mater Long Girth (a) M ation ttom,en bovable, pressu valve s: Purpo Cucher cucher tion H gs: H	ial (Kind & Spece allaterial Thicks ds bolts use bolts use 2 complete Outlets: see (Inlet, Comin) danholes, danholes,		Crown Radius	Nominal Thickness Specified) H.T. H.T. Knuckle Radius (b) Sels where Dia or Stre	T.S T.S Elliptica Ratio (c) psi at applicable. Size Size Size	Corrosion Allowance R.T. R.T. (b) I Concial Apex Angle Other e e pe Mateme	in. Dia.	ft. erical  Orop Ve Charpy at temp Locatio	in. 1 Efficion No. of T Flat Diameter (Desc) of Gentors Matenal	Length courses .S Side to ( conv. 	Press. or conc. ) htmch) ft-lt F How Atlached
(a) (b) 4. (b) 5. 5.	Shell: Seams: Heads: Loca Top.bot Channe If rend Design ms belon Safety Nozzle: Inspec	Mater Long Girth (a) M ation ttom.en l bvable, pressu w to be Valve S: Purpo Cutor S: Purpo Cutor for H gs: H	ial (IOND & Spect laterial Thick bolts use bolts use completer Outlets: we (Inlet, Comin) fanholes, iandholes, iandholes, iandholes, iandholes,		Crown Radius	Nominal Thickness Specified) H.T. H.T. Knuckle Radius (b) sels where Dia or Stra	T.S Elliptica Ratio (c) psi at applicable. Size Size Size	Corrosion Allowance R.T. R.T. (b) 1 Concial Apex Angle Other Other Pe	in. Dia.	ft. erical  Orop Ve Charpy at temp Locatio	in. 1 Efficio No. of T Flat Diameter (Desc) of Gentors Matenal	Length courses .S Side to ( conv. 	Press. or conc. ) htmch) ft-lt F How Atlached

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

Page 118 of 218

SHEET 13 OF 79 WN#95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I 1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) 2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) TVA DECATUR, AL_35609-2000 (p) Manufactured for : ( Name and Address of N Certificate Holder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : _A5233_ Nat'l Bd. No. _ N/A (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson (b) Description of Part Inspected: Control Rod Drive, Model # 7RDB144FG005 (c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W75, Case No. N207 1361-2 Class 1 3. REHARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 166B9274P001 SA182 - F316 3/8° thick x 1 1/16° OD 2. Indicator Tube 166B9313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.065° max. dia. Reactor 3. Plug 159A1176P001 Yessel SA182 - F304 Thimble Code Held 1/4" thick x 0.812" OD P501P102 1 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37° thick x 9 5/8° OD 5. Base 137C5311P001 SA182 - F304 7/8° thick x 2.875° dia. Code Weld 6. Ring Flange 114B5122P002, P003 P50YP102 137C8151P001, P002 SA182 - F304 1° thick x 5.0° OD x 1.75° ID я 7. Cap Screw 117C4516P002 SA193 • B6 6 ea. 1/2" dia. on 4 1/8" bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38° thick x 1.307° dia. Code Weld P50YP102 6 Rolled before weld 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.

FORM NIS-2-ATTACHMENT

we want the second second second

- Serie

51

Page 119 of 218

	FORM NITS-2 ATTACH
	SHEET 14 OF 79
• •	WO # 95-022229-0
FORM N-2 NPT CERTIFICATE HOLDERS'D As required by the Provision	ATA REPORT FOR NUCLEAR PART AND APPURTENANCES* of the ASME Code Rules, Section III, Div. I
1. Manufactured & Certified by : <u>General Electric (</u>	Company Nuclear Energy (GE-NE)
2117 Castle Havi	n <u>e Road, Wilmington, North Carolina 28401</u> d Address of NPT Certificate Holder )
(b) Manufactured for : <u>TVA</u> <u>DECATU</u> ( Name and Address of	JR. AL 35609-2000 f N Certificate Holder for completed nuclear component )
2. Identification - Certificate Holder's S/N of Part	t : Nat'l Bd. NoN/A
(a) Constructed According to Drawing No: <u>768</u> E	534G008 Rev_9 Dwg. Prepared by <u>D.L. Peterson</u>
(b) Description of Part Inspected: <u>Control Re</u>	od Drive , Model # 7RDB144FG005
(c) Applicable ASME Code: Section III , Edition	on <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class _
3. REMARKS: <u>Standard part for use with Reactor. H</u> (Brief description of service	Wdrostatically tested at 1825 psl. min. for which component was designed )
	Sheet 1 of 2
the component Design Specification and Stress Repo	
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GE</u> ( NPT C	E-NE "By SC QA Representive ) Certification of Authorization No. : <u>NPT N - 1151</u>
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GR</u> ( NPT C Certificate of Authorization Expires: <u>6/16/96</u>	E-NE "By SC QA Representive )
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GR</u> ( NPT C Certificate of Authorization Expires: <u>6/16/96</u>	f Design for Appurtenance
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GF</u> ( NPT C Certificate of Authorization Expires: <u>6/16/96</u> Certification of	Ty, San Jose, California
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GB</u> ( NPT C Certificate of Authorization Expires: <u>6/16/96</u> Certification of Design information on file at <u>GE Compar</u>	Design for Appurtenance my, San Jose, California
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GF</u> ( NPT C Certificate of Authorization Expires: <u>6/16/96</u> Certification of Design information on file at <u>GE Compar</u> Stress analysis report on file at <u>GE Compar</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> DC22A6254 Rev 1	Design for Appurtenance my, San Jose, California
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GF</u> ( NPT C Certificate of Authorization Expires: <u>6/16/96</u> Certification of Design information on file at <u>GE Compar</u> Stress analysis report on file at <u>GE Compar</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yc</u>	Dert ). E-NE By SC QA Representive ) Certification of Authorization No. : <u>NPTN-1151</u> <b>f Design for Appurtenance</b> my. San Jose, California my. San Jose, California
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GF</u> ( NPT C Certificate of Authorization Expires: <u>6/16/96</u> Certification of Design information on file at <u>GE Compar</u> Stress analysis report on file at <u>GE Compar</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yc</u> Certificat:	Dert ). E-NE By SC QA Representive ) Certificate Bolder SC QA Representive ) Certification of Authorization No. : <u>NPT N - 1151</u> <b>f Design for Appurtenance</b> my. San Jose, California my. San Jose
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GH</u> ( NPT C Certificate of Authorization Expires: <u>6/16/96</u> Certification of Design information on file at <u>GE Compar</u> Stress analysis report on file at <u>GE Compar</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yc</u> Certificat: I, the undersigned, holding a valid commission by State or Province of <u>North Carolina</u> and employ inspected the part of a pressure vessel described and state that to the best of my knowledge and be accordance with the ASHE Code Section III. By signing this certificate, neither the Inspect concerning the part described in the Partial Data shall be liable in any manner for any personal in connected with this inspection.	bort ). E-NE By SC QA Representive ) Certificate Bolder SC QA Representive ) Certification of Authorization No. : <u>NPT N - 1151</u> <b>f Design for Appurtenance</b> my. San Jose. California my. San Jose. California my. San Jose. California My San
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GH</u> ( NPT C Certificate of Authorization Expires: <u>6/16/96</u> Certification of Design information on file at <u>GE Compar</u> Stress analysis report on file at <u>GE Compar</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yc</u> Certificat: I, the undersigned, holding a valid commission by State or Province of <u>North Carolina</u> and employ inspected the part of a pressure vessel described and state that to the best of my knowledge and be accordance with the ASHE Code Section III. By signing this certificate, neither the Inspect concerning the part described in the Partial Data shall be liable in any manner for any personal in connected with this inspection.	<pre>port ). E-NE "By SC QA Representive ) Certificate Bolder SC QA Representive ) Certification of Authorization No. : <u>NPT N - 1151</u> <b>f Design for Appurtenance</b> my. San Jose. California my. San Jose. California my. San Jose. California r_ Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> <u>oshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <u>ion of Shop Inspection</u> y the National Board of Boiler and Pressure Inspectors and/or the yed by <u>Department of Labor</u> of <u>State of North Carolina</u> have d in this Partial Data Report on <u>State of North Carolina</u> have d in this Partial Data Report on <u>State of North Carolina</u> have d in this Partial Data Report on <u>State of North Carolina</u> have d in this employer makes any warranty, expressed or implied, a Report. Furthermore, neither the Inspector nor his employer</pre>
the component Design Specification and Stress Repo Date: <u>09/26/95</u> Signed <u>GF</u> Certificate of Authorization Expires: <u>6/16/96</u> <u>Certification of</u> Design information on file at <u>GE Compar</u> Stress analysis report on file at <u>GE Compar</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yc</u> <u>Certificat</u> : I. the undersigned, holding a valid commission by State or Province of <u>North Carolina</u> and employ inspected the part of a pressure vessel described and state that to the best of my knowledge and be accordance with the ASHE Code Section III. By signing this certificate, neither the Inspect concerning the part described in the Partial Data shall be liable in any manner for any personal in connected with this inspection. <u>9/26, 1995</u> <u>Aucon P C</u> <u>Inspector's Sig</u>	bort ). E-NE By SC QA Representive ) Certificate Bolder SC QA Representive ) Certification of Authorization No. : <u>NPT N - 1151</u> <b>f Design for Appurtenance</b> my. San Jose. California my. San Jose. California my. San Jose. California My San

•••

1

.e	ns 4-8 In	ci, to	be comp	leted	for sing	JIE WALL VE		C3 VESSE13, OF	sheils of he	at exchangers.		
•	Shell:					Nominal Thickness Specified)	in. A	arrosion Howance	in, Dia	ft in,	Length	ft
	Seams:	Long _				н.т	. <u></u>	R.T.	A	Effici	iency	
		Girth _				н.т.'		R.T.	<u></u>	No. of	Courses _	
	Heads:	(a) Mat	erial _				t.s	(b) H	laterial	T	.s	<u> </u>
3)	Location Bottom,			1835	Crown Radius	Knuckle Radius	Elliptical Ratio		Hemispheric Radius	al Flat Diameter	Side to ( ( conv. )	
ь)	if remov	able, t	oltsus	ed				Other faste	ening			
	Jacket C	losure:				I, Spec. No., T.S.	. Size Number )			(Describe of attach	sketch }	
					(D4	ecribe as ogee a	ind wold, bar, etc. 8	ber give dimensions,		p Weight rpy Impact		ft-1b
5.	Design p	ressure	2		1250	ps	i at	575	Fat	temp of		°F
ta	ns 9 and	10 to 1	e comple	eted f	or tube	sections						- <b>1</b>
		1	loating	. ж	aterial	( Kind & Sp	Di-	Subject to pressu	Thicknes	s in. A s 1n. A	ttachment .	
•	Tubes:	Materia	<u>ا</u>			0.D. <u>·</u>	in. This	ckness	inches or gage,	Number	Тури	
										Number		(Str. or U
te	ns 11 - 1	14 incl. Materia	to be	comple	ted for	inner cham	bers of jack	eted vessels,	or channels o		jers.	(Sr. or U)
te	ns 11 - 1	14 incl. Hateria (	to be	comple T.S No.)(k	ted for	inner cham Nominal Thickness • Specfied)	abers of jack C S in. A	eted vessels, orrosion llowance R.T.	or channels o in. Dia,	f heat exchang ft, in. Effici	ers. Length	(Sr. or U
te	ns 11 - 1 Snell: Seams:	Hateria ( Long Girth	to be (	comple T.S No.)(k	ted for 	inner cham Nominal Thickness • Specified) H.T. H.T.	bers of jack C s in. A	eted vessels, orrosion llowance R.T. R.T.	or channels o in. Dia,	f heat exchang ft, in. Effici No. of	iency Courses _	(Sr. or U
te	ns 11 - 1 Snell: Seams:	Hateria ( Long Girth	to be (	comple T.S No.)(k	ted for 	inner cham Nominal Thickness • Specified) H.T. H.T.	bers of jack C s in. A	eted vessels, orrosion llowance R.T. R.T.	or channels o in. Dia,	f heat exchang ft, in. Effici	iency Courses _	(Sr. or U
te	ms 11 - 1 Snell: Seams: Veads: Locat	Hateria ( Long Girth (a) Mat :on	to be a line with the second s	T.S	ted for 	inner cham Nominal Thickness Soccod) H.T. H.T. Knuckle	thers of jack T.S Elliptical	eted vessels. orrosion 11owance R.T. R.T. (b) H Concial	or channels o in. Dia, laterial Hemispheric.	f heat exchang ft, in. Effici No. of	Length lency Courses S Side to I	(Sr. or U) _ ft  Press.
te	ns 11 - 1 Snell: Seams: Yeads: Locat Top,bott Channel	Hateria ( Long Girth (a) Man con, ends	to be a spectrum of the spectr	T.S T.S No.)(k	ted for	inner cham Nominal Thickness Socched) H.T. H.T. Knuck le Radius	t.S Elliptical Ratio	eted vessels, orrosion 11owance R.T. R.T. (b) H Concial Apex Angle	or channels o in. Dia, laterial Hemispheric.	f heat exchang ft, in. Effici No. of T al Flat Diameter	Length lency Courses S Side to I	(Sr. or U) _ ft  Press.
te	ns 11 - 1 Snell: Seams: Yeads: Locat Top,bott Channel	Hateria ( Long Girth (a) Man con, ends	to be ( ) () () () () () () () () ()	T.S T.S No.)(k	ted for	inner cham Nominal Thickness Socched) H.T. H.T. Knuck le Radius	t.S Elliptical Ratio	eted vessels, orrosion 11owance R.T. R.T. (b) H Concial Apex Angle	or channels o in. Dia, laterial Hemispheric. Radius' er fastening Drog	f heat exchang ft, in. Effici No. of T al Flat Diameter	Length lency Courses S Side to I	(Sr. or U) _ ft  Press.
ter - - -	ns 11 - 1 Snell: Seams: Yeads: Locat Top,bott Channel	Hateria ( Long Girth (a) Main tion tion tion tion	to be ( Rend & Spec (eria) _ Thick: xolts us: 2	T.S T.S No.)(k	ted for	inner cham Nominal Thickness • Socched) H. T. H. T. Knuck le Radius (b)	t.S Elliptical Ratio	eted vessels, orrosion llowance R.T. R.T. (b) H Concial Apex Angle Othe	or channels o in. Dia, laterial Hemispheric. Radius' er fastening Oro Char o	f heat exchang ft, in. Effici No. of T al Flat Diameter  p Veight	Length lency Courses S Side to I	(Sr. or U) ft Press. pr conc. ) 
te - - - -	ns 11 - 1 Snell: Seams: "eads: Locat Top,bott Channel If remov Design p	Hateria (Long Girth (a) Mai tion com, ends vable, 1 pressure	to be with the second s	comple T.S No.) (k	ted for	inner cham Nominal Thickness Second) H.T. H.T. Knuckle Radius (b)	t.S Elliptical Ratio (c)	eted vessels, orrosion llowance R.T. R.T. (b) H Concial Apex Angle Othe	or channels o in. Dia, laterial Hemispheric. Radius' er fastening Oro Char o	f heat exchang ft in. Effici No. of T al Flat Diameter  p Veight rpy Impact	Length lency Courses S Side to I	(Sr. or U) ; ; Press. ; Press. ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; _;
te	ns 11 - 1 Snell: Seams: Yeads: Locat Top,bott Channel If remov Design p ns below	Hateria Hateria ( Long (a) Mai tion tion com, ends vable, 1 pressure to be c	to be of the spectrum of the s	t.S. No.) (k ness ed (a)	ted for 	inner cham Nominal Thickness Second) H.T. H.T. Knuckle Radius (b)	bers of jack 	eted vessels, orrosion llowance R.T. R.T. (b) H Concial Apex Angle  Othe	or channels o in. Dia, laterial Hemispheric. Radius' er fastening Oro Chai F at	f heat exchang ft in. Effici No. of T al Flat Diameter  p Veight rpy Impact	Length lency Courses S Side to I	(Sr. or U) ; ; Press. ; Press. ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; _;
	ns 11 - 1 Snell: Seams: Yeads: Locat Top,bott Channel If remov Design p ns below	Ateria (Long Girth (a) Man (a) Man (a) Man (a) Man (a) Man (a) Man (a) Man (a) Man (a) Man (a) Man (c) Man	to be a spectrum of the spectr	t.S. No.) (k ness ed (a)	ted for An, of Rang Crown Radius all ves: r	inner cham Nominal Thickness • Specified) H.T. H.T. Knuck le Radius (b) (b) sels where	bers of jack 	eted vessels. orrosion llowance R.T. R.T. (b) H Concial Apex Angle  Othe	or channels o in. Dia, laterial Hemispheric. Radius er fastening Dro Chai F at Loc.	f heat exchang ft in. Effici No. of T al Flat Diameter  p Veight rpy Impact temp of Ation Renforce	iency Courses S Side to f ( conv. of  Inde or effect ski	(Sr. or U 
te	ns 11 - 1 Snell: Seams: Yeads: Locat Top,bott Channel If remov Design p ns below Safety W Nozzles: Inspecti	Alteria (Long Girth (a) Main (a) Main (a) Main (a) Main (a) Ne (Content (a) Ve (Content (a) Ve (Content) (a) Ve (Content) (a) Ve (Content) (a) Ve (Content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content) (content	to be a spectrum of the spectr	comple T.S. No.) (A ness ed (a) d for Numbe Numb	ted for	inner char Nominal Thickness • Specified) H. T H. T Knuck le Radius  (b) sels where Da. or Size	bers of jack in. A T.S T.S Elliptical Ratio  (c) psi at applicable.  Size	eted vessels, orrosion llowance R.T. R.T. (b) H Concial Apex Angle  Othe	or channels o in. Dia, laterial Hemispheric. Radius' r fastening Oro Chainer F at Location	f heat exchang ft in. Effici No. of Tat Diameter  o Veight rpy Impact temp of Automal	Iers. Length Courses Side to I ( Conv. of Conv. of Conv. of Conv. of Conv. of Conv. of Conv. of Conv. of Conv. of Conv. of Con	(Sr. or U ft Press. or conc. ) ft-lb F  Gw Attached
te	ns 11 - 1 Snell: Seams: "eads: Locat Top,bott Channel If remov Design p ns below Safety W Nozzles:	Ateria (Long Girth (a) Mai (a) Mai (a) Mai (a) Mai (a) Mai (a) No Co (a) Ve Co (a) Ve Co (a) Ve Co (c)	to be a spectrum of the spectr	comple T.S. No.) (A ness ed (a) d for Numbe Numb	ted for 	inner char Nominal Thickness • Specified) H. T H. T Knuck le Radius  (b) sels where Da. or Size	bers of jack in. A T.S T.S Elliptical Ratio  (c) psi at applicable.  Size	eted vessels, orrosion llowance R.T. R.T. (b) H Concial Apex Angle  Othe	or channels o in. Dia, laterial Hemispheric. Radius' r fastening Oro Chainer F at Location	f heat exchang ft in. Effici No. of T al Flat Diameter  p Veight rpy Impact temp of ation Removes Material	Iers. Length Courses Side to I ( Conv. of Conv. of Conv. of Conv. of Conv. of Conv. of Conv. of Conv. of Conv. of Conv. of Con	(Sr. or U) ft; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; _;

≁

Page <u>121</u> of <u>218</u>

r S İ

), ·

"Xin

.

- Seria FORM NIS-2 ATTACHMENT • SHEET 15 OF 79 WO # 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I 1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE-) 2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) DECATUR, AL 35609-2000 (b) Manufactured for : _TVA ( Name and Address of N Certificate Holder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : _A5637_ Nat'l Bd. No. ____N/A (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson (b) Sescription of Part Inspected: <u>Control Rod Drive</u>, Model # 7RDB144FG005 (c) Applicable ASHE Code: Section III. Edition <u>1974</u>. Addenda Date <u>W'75</u>. Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> ( Brief description of service for which component was designed ) 4 Sheet 2 of 2 1. Cap 16689274P001 SA182 - F316 3/8" thick x 1 1/16" OD 2. Indicator Tube 16689313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113 wall thickness 1.065° max. dia. 1 Reactor Vessel 3. Plug 159A1176P001 Code Neld SA182 - F304 Thimble 1/4" thick x 0.812" OD P5012102 2 4, Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8' OD 5. Base 137C5311P001 SA182 - F304 -7/8" thick x 2.875" dia. Code Neld 6. Ring Flange 114B5122P002, P003 P501P102 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID я 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle 8. Plug 175A7961P001 SA182 - F304 Code Neld 0.38" thick x 1.307" dia. P50YP102 6 Rolled before weld 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia. Page 122 of 218

...

•	
	je v vers ⊂ t tekste verster net til state en st
	FORM NIS-2 ATTACHMEN
· · · · · · · · · · · · · · · · · · ·	SHEET 16 OF 79
	WN # 95-022229-001
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT F	OR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME	Code Rules, Section III, Div. I
1. Manufactured & Certified by : General Electric Company Nuclea	r Energy (GE-NE)
2117 Castle Hayne Road. Wilmin (Name and Address of NPT	oton, North Carolina 28401
(b) Manufactured for : <u>TVA DECAIUH, AL 35605-20</u> ( Name and Address of N Certificate B	Noider for completed nuclear component )
2. Identification - Certificate Holder's S/N of Part : <u>A4099</u>	Nat'l Bd. No. <u>N/A</u>
(a) Constructed According to Drawing No: <u>768E534G008 Rev</u>	2 Dwg. Prepared by <u>D. L. Peterson</u>
(b) Description of Part Inspected: <u>Control Rod Drive. Model</u>	<u>I # 7RDB144FG005</u>
(c) Applicable ASME Code: Section III. Edition <u>1974</u> . Adde	nda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3 peways- Standard part for use with Reactor. Hydrostatically tes	sted at 1825 psi. min
( Brief description of service for which compon	ent was designed }
,	4
	Sheet 1 of 2
	· · · · · · · · · · · · · · · · · · ·
is responsible for furnishing a separate Design Specification and the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> B ( NPT Certificate Holde	121 11.
Certificate of Authorization Expires: <u>6/16/96</u> Certification of	Action No. : <u>NPIN-1151</u>
Certification of Design f	or Appurtenance
Design information on file atGE Company, San Jose,	California
Stress analysis report on file at <u>GE Company, San Jose</u> .	
0C2246253 Rev. 2	
Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. S	State <u>Calif.</u> Reg. No. <u>18345</u>
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. En	g. State <u>Calif.</u> Reg. No. <u>M018646</u>
	· · · · · · · · · · · · · · · · · · ·
Certification of Sho	p Inspection
I the undersigned holding a valid commission by the National Bo	pard of Boiler and Pressure Inspectors and/or the
State or Province of <u>North Carolina</u> and employed by <u>Department</u>	ent of Labor of State of North Carolina have
and state that to the best of my knowledge and belief, the NPT Ce accordance with the ASME Code Section III.	ertificate Holder has constructed this part in
By signing this certificate, neither the Inspector nor his emplo concerning the part described in the Partial Data Report. Further	over makes any warranty, expressed or implied, •
shall be liable in any manner for any personal injury or property	y damages or a loss of any kind arising from or
connected with this inspection. $f_{1} = f_{2} = f_{2}$	NO 1921 Obic WO 2505 PA
Date Jacome PEnere Date	NC 1231, Ohio, WC 3686 PA National Board, State, Province And No.
*Supplemental sheets in form of lists, sk	erches or drawing may be used
*Supplemental sheets in form of lists, sk provided (1) size is 8-1/2" x 11", (2) i Report is included on each sheet, and (3 number of sheets is recorded in Item 3.	nformation in 1-2 on this Data ) each sheet is numbered and "REMARKS".
provided (1) size is 8-1/2" x 11", (2) 1. Report is included on each sheet, and (3 number of sheets is recorded in Item 3. Page <u>123</u> of <u>21</u>	(*/~)

د خ.

FORM N-2 ( back )

¥

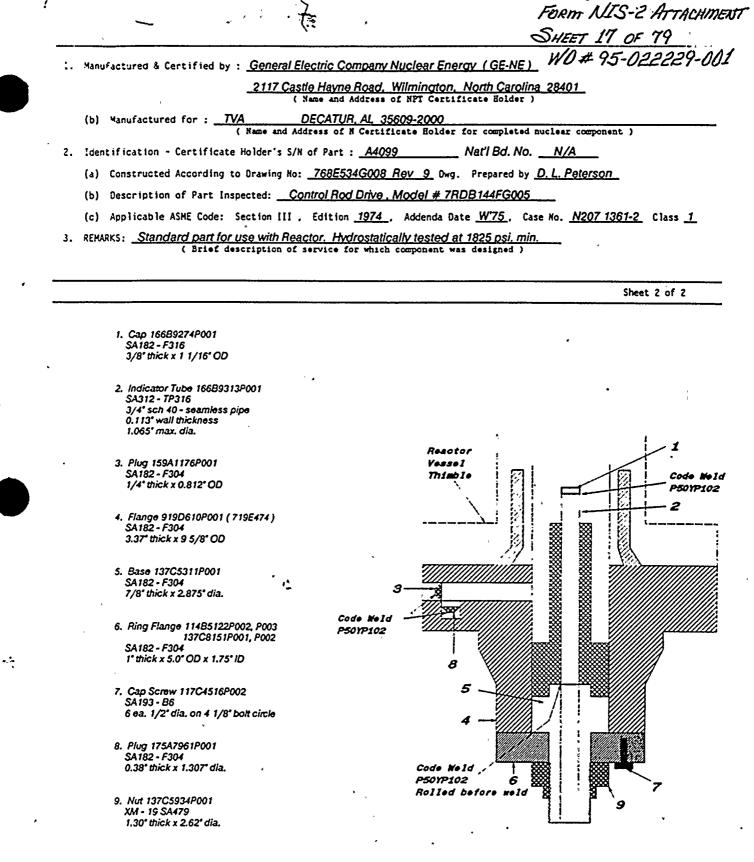
--:

.`:

ч к "к

	•			_	_	Nomina 1	. (	Corrosion	1- 01-	<b>.</b> .	in 1	aaath	f+
	Shell:	Mater	ial_ (Kindi	T Spec. No. )	.S	Thickness (e Specfied)	in. /	Corrosion Allowance	in. Uia.	rt.	IN. I	Length	
	Seams:	Long				ม.т		R.T.			_ Effici	ency	
						н.т.'		R.T.			No. of	Courses	
	Heads:						t.s. 🐪	(b) (	Material _		T	.s	
	i ocat í o	n ( Ta	מר		Crown		Elliptica	1 Concial Apex Angle	Hemisph	erical	Flat	Side to	
•	if remo	vable	bolt	s used	( Materi	H, Spec. No., T.S.	Size Number)	Other fast	ening	(0	ecribe or attach	sketch )	
	Jacket	Closu	re:					If ber give dimension	s, il bolta, descr	the or shelch	)		
	,	**			(0					Drop We Charpy	ight Impact		ft-1
	Cesian	press	2 ure		1250	ps	i at	575	°F	at temp	o of		°F
_						sections							
							, C	)ia.	Thic	kness	in. A	ttåcfmen	t
	206 30		E1	+ 100	Vatanin	(Kind & Sc	Dec. No.)	)ia. (Subject to pres )ia.	eure) Thir		 in. A	ttachmen	(Weided, ä
	"ubes:	Mate	rial_			. 0.0	1n. 1	nickness	enches or g	gage. Nu		'·	(Str. or
									•	ale of he	at exchance	ers.	
20	as 11 -	14 in	cl. to	be com	pleted for	- inner char	abers of jac	cketed vessels,	, or channe	513 UI IK	sac excitaing	,	
en	ns 11 -	14 in	c]. to	be com	oleted for			cketed vessels,	or channe		at extrang		
			rial _		r.s	Nominal Thickness		cketed vessels. Corrosion Allowance				_	ft
,	Shell:	Mate	rial (Kind	& Spec. No.	[.S) (Min. of Rer	Nominal Thickness ge Specfied) 1	s in.	Corrosion Allowance	_ in. Dia.	ft.	in,	Length _	
,	Shell:	Mate	rial (Kind	& Spec. No.	r.s	Nominal Thickness ge Specified) 1 H.T.	s in.	Corrosion Allowance R.T.	_ in, Dia.	ft.	in. Effici	Length _	
	Shell: Seams:	Mate Long Girt	rial	& Spec. No.	[.S] (Min. of Rer	Nominal Thickness ge Specified) H.T. H.T.	s in.	Corrosion Allowance R.T.	_ in, Ola.	ft.	in. Effici No. of	Length _ iency f Courses	
-	Shell: Seams:	Mate Long Girt	rial	& Spec. No.	[.S] (Min. of Rer	Nominal Thickness ge Specified) H.T. H.T.	s in.	Corrosion Allowance R.T.	_ in, Ola.	ft.	in. Effici No. of	Length _ iency f Courses	
	Shell: Seams: reads: Loca	Mate Long Girt (a) ation	ria] {Kind h Mater	& Spec. No.	Crown s Radiu:	Nominal Thickness ge Specied H.T. H.T. Knuckle	s in. T.S Elliptica	Corrosion Allowance R.T.	_ in, Dia.  Material 	ft.	in. Effici No. of  Flat Diameter	Length _ iency f Courses [.S Side t ( conv	o Press.
- - -	Shell: Seams: reads: Loca	Hate Long Girt (a) ation.e	h Mater	A Spec. No.	r.s ) (Min. of Ran  Crown s Radiu:	Nominal Thickness Specied H.T. H.T. Knuckles Radius	T.S F.S Elliptica Ratio	Corrosion Allowance R.T. R.T. (b) al Concial	_ in, Dia. 	ft,	in. Effici No. of Flat Diameter 	Length _ iency F Courses f.S Side t ( conv	o Press. . or conc.
	Shell: Seams: reads: Loca	Hate Long Girt (a) ation.e	h Mater	A Spec. No.	r.s ) (Min. of Ran  Crown s Radiu:	Nominal Thickness Specied H.T. H.T. Knuckles Radius	T.S F.S Elliptica Ratio	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle	_ in, Dia. 	ft,	in. Effici No. of Flat Diameter 	Length iency f Courses f.S Side t ( conv 	o Press. , or conc.
	shell: Seams: reads: Loca Top.bo Channe !f rema	Mate Long Girt (a) ation ttom.e 1 ovable	rial (Kind (Kind h Mater ands ands , boli	A Spec. No.	r.s ) (Min. of Ran  Crown s Radiu:	Nominal Thickness Specied H.T. H.T. Knuckles Radius	s in. T.S Elliptica Ratio (c)	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle	_ in, Dia. Material Hemispie Radius Fer fasten	ft, herical ing Drop We Charpy	in. Effici No. of Flat Diameter  eight Impact	Length iency f Courses f.S Side t ( conv 	o Press. , or conc.
	Shell: Seams: reads: Loc: Top.bol Channe if remu Design	Mate Long Girt (a) ation.e lovable press	rial	& Spec. No.	r.s. ) (Min. of Rer Crown s Radiu: (a)	Nominal Thickness ge Specified) H.T. H.T. Knuck le Radius (b)	s in. T.S Elliptica Ratio  (c) psi, at	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth	_ in, Dia. Material Hemispie Radius Fer fasten	ft,	in. Effici No. of Flat Diameter  eight Impact	Length iency f Courses f.S Side t ( conv 	o Press. , or conc.
() )	Shell: Seams: reads: Channe if remu Design	Mate Long Girt (a) ation ttom.e l ovable press	rial (Mond (Mond ) Mater Mater sure sure pe com	A Spec. No.	r.S. ) (Min. of Rar Crown s Radiu: (a) (a)	Nominal Thickness ge Specfled) H.T. H.T. Knuck les Radius (b)	s in. T.S Elliptica Ratio (c) ps(_at applicable	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth	_ in, Dia. Haterial Hemispie Radius her fasten	ft, herical ing Drop W Charpy F at tem	in. Effici No. of Flat Diameter  eight Impact p of	Length iency f Courses f.S Side t ( conv 	o Press. . or conc.
	Shell: Seams: -eads: Loc. 'op,bot Channe !f remu Design ms belor Safety	Hate Long Girt (a) ation ttom,e l ovable press w to b	arial (Mod (Mod Mater Mater ands about 1 about	A Spec. No.	r.S. ) (Min. of Rar Crown s Radiu: (a) (a)	Nominal Thickness ge Specfled) H.T. H.T. Knuck les Radius (b)	s in. T.S Elliptica Ratio (c) ps(_at applicable	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth	_ in, Dia. Haterial Hemispie Radius her fasten	ft, herical ing Drop W Charpy F at tem	in. Effici No. of Flat Diameter  eight Impact p of on	Length iency f Courses f.S Side t ( conv 	o Press. . or conc.
	Shell: Seams: reads: Channe if remu Design	Hate Long Girt (a) ation ttom.e l ovable press w to b Valve s: Pun	arial (Mod (Mod Mater Mater ands about 1 about	A Spec. No.	r.S. ) (Min. of Rar Crown s Radiu: (a) (a)	Nominal Thickness ge Specfied) H.T. H.T. Knuck le Radius (b)	s in. T.S Elliptica Ratio (c) psi, at applicable Si	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth	in, Dia. Material Hemisple Radius	ft, herical ing Drop W Charpy F at tem	in. Effici No. of Flat Diameter  eight Impact p of	Length iency f Courses f.S Side t ( conv  cnbe or stact	o Press. . or conc.
	Shell: Seams: -eads: Loc. 'op,bot Channe !f remu Design ms belor Safety	Hate Long Girt (a) ation ttom.e l ovable press w to b Valve s: Pun Out	rial (kind (kind h) Mater Mater sure sure be com a Out in het Dran	A Spec. No.	r.S ) (Min. of Rer  s Radiu: (a) (a) or all ve mber Number	Nominal Thickness ge Specfied) H. T. H. T. Knuck les Radius (b) ssels where Dia or Scr	s in. T.S Elliptica Ratio (c) psi, at applicable Si 	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle  Oth  ze ype	_ in. Dia. Material Hemisple Radius her fasten	ft, herical ing Drop We Charpy F at tem Location	in. Effici No. of Flat Diameter  eight Impact p of Meterna 	Length iency F Courses f.S Side t ( conv  conve or effect conve o	o Press. , or conc. ft- F How Attached
- - - - -	Shell: Seams: reads: Loca Top.bol Channe If remu Design ms belo Safety Nozzle Inspec	Hate Long Girt (a) ation ttom.e l ovable press w to b Valve s: Pun Out	rial (kind (kind h) Mater Mater sure sure be com a Out in het Dran	A Spec. No.	r.S ) (Min. of Rer  s Radiu: (a) (a) or all ve mber Number	Nominal Thickness ge Specfied) H. T. H. T. Knuck les Radius (b) ssels where Dia or Scr	s in. T.S Elliptica Ratio (c) psi, at applicable Si 	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle  Oth  ze ype	_ in. Dia. Material Hemisple Radius her fasten	ft, herical ing Drop We Charpy F at tem Location	in. Effici No. of Flat Diameter  eight Impact p of Meterna 	Length iency F Courses f.S Side t ( conv  conve or effect conve o	o Press. , or conc. ft- F How Attached
- - - - -	Shell: Seams: reads: Loc: Top.bol Channe If remu Design ms belon Safety Nozzle	Hate Long Girt (a) ation ttom.e l ovable press w to b Valve s: Pun Out	rial (Kind (Kind h) Mater Mater ends sure sure sure be com a Out in Manho Handh	A Spec. No.	r.S ) (Man. of Rar  s Radiu: (a) (a) (a) mber Number 0	Nominal Thickness ge Specified) H.T. H.T. Knuck le Radius (b) Ssels where Dia. or Scr	s in. T.S Elliptica Ratio (c) psi, at applicable Size  Size Size	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth Oth Ze	in, Dia. Haterial Hemispie Radius her fasten o Location Location	ft, herical Ing Drop We Charpy F at tem Location hickness	in. Effici No. of Flat Diameter  eight Impact p of Meterna 	Length iency f Courses f.S Side t ( conv  conbe or effect	o Press. , or conc. ft- F How Attached
	Shell: Seams: reads: Loca Top.bol Channe If remu Design ms belo Safety Nozzle Inspec	Mate Long Girt (a) ation ttom.e press w to b Valve s: Pun S: Pun gs:	rial (Kind (Kind ) Mater Mater ; boli ; bol	A Spec. No.	T.S	Nominal Thickness go Specified) H. T. H. T. Knuck les Radius (b) ssels where Dia or Scr	s in. T.S Elliptica Ratio (c) psi, at or psi, at size Size Size	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle  Oth  ze ype Mater	_ in. Dia. Material Hemispie Radius her fasten o Location Location	ft, herical ng Drop We Charpy F at tem Location hictoress	in. Effici No. of Flat Diameter  eight Impact p of Meterna 	Length iency F Courses f.S Side t ( conv  conversion attack conversion attack conver	o Press. , or conc. ft- F How Attached

Page 124 of 218



Page 125 of 218

-

.

٩

۰ ۲ ۲ - ۰ - ۰

٤

. . .

۰. ۱

.

ŵ,

s j. maran	an a construction of the second second second second second second second second second second second second s A second second second second second second second second second second second second second second second second
	FORM NIS-2 ATTACHMENT SHEET 18 OF 79
	WD # 95-022229-001
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I
-	1. Manufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u>
	<u>2117 Castle Hayne Road, Wilmington, North Carolina 28401</u> ( Name and Address of NPT Certificate Bolder )
	(b) Manufactured for : <u>TVA DECATUR, AL 35609-2000</u> (Name and Address of N Certificate Holder for completed nuclear component)
	2. Identification - Certificate Holder's S/N of Part : <u>A5535</u> Nat'l Bd. No. <u>N/A</u>
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L. Peterson</u>
	(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
	(c) Applicable ASME Code: Section III, Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
	3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.</u> (Brief description of service for which component was designed)
	Sheet 1 of 2
	We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ).
,	Date: 09/26/95 Signed <u>GE-NE</u> By (SC QA Representive )
	Certificate of Authorization Expires: $6/16/96$ Certification of Authorization No. : <u>NPTN-1151</u>
	Certification of Design for Appurtenance
	Design information on file at GE Company, San Jose, California
	Stress analysis report on file at <u>GE Company, San Jose, California</u>
•	OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
	OC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	Certification of Shop Inspection
	I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>9/17</u> , <u>1795</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
	<u>9/26. 1995 <u>Augus</u> <u>Prime</u> <u>NC 1231, Ohio, WC 3686 PA</u> Date/ <u>V</u> Inspector's Signature National Board, State, Province And No.</u>
	*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (*7/**)
۲ ۲ مرد اس ۲ مرد اس ۲	Page <u>126</u> of <u>218</u>

FORM N-2 ( back ) Items 4-8 Incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchangers. Nomina 1 Corrosion Thickness _____ in. Allowance _____ in. Dia. _____ ft. ____ in. Length _____ ft. ____ in. T.S. 4. Shell: Material (Kind & Spec. No.) (Min. of Range Specified) . R.T. _____Efficiency ____ X H.T. 5, Seams: Long ____ R.T. _____ No. of Courses ____ H.T. Girth æ T.S. ___ (b) Material T.S. 6. Heads: (a) Material Hemispherical Flat Side to Press. Knuckle Elliptical Concial Location ( Top Crown Diameter ( conv. or conc. ) Bottom, Ends ) Thickness Apex Angle Radius Radius Radius Ratio (a)(b) Other fastening If removable, bolts used (Describe or attach sketch) (Meterial, Spec, No., T.S. Size Number) 7. Jacket Closure: ____ (Describe as ogee and weld, ber, etc. If ber give dimensions, if bolts, describe or switch) Drop Weight Charpy Impact ft-lb 0 F F 1250 psi at _____ 575 at temp of 3. Design pressure Items 9 and 10 to be completed for tube sections Thickness ______ 'n. Attacrment Día. 3. Tupe Sheets: Stationary, Material (Kind & Spec. No.) (Subject to pressure) (Welded, Boiled) Dia. in. Attachment Material Thickness Floating. Type ______ _____ 0.D, ______ in. Thickness ______ _ enches or gage. Number ___ 13. Tubes: Material Items 11 - 14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. Nominal Corrosion Thickness _____ in. Allowance _____ in. Dja. _____ ft. ____ in. Length _____ ft. ____ in. T.S. 1. Shell: Material (IOnd & Spec, No.) (Min, of Range Specified) 1 R.T. _____Efficiency ____ x ____ x H.T. 12. Seams: Long _____ 1 н.т. R.T. __ No. of Courses _____ Girth ____ (b) Haterial _____ T.S. 13. Heads: (a) Material ____ T.S. ____ Hemispherical Flat Knuck le Elliptical Concial Side to Press. Crown Diameter ( conv. or conc. ) Apex Angle Thickness Radius Radius Location Radius Ratio (a) Top, bottom, ends (b) Channel Other fastening ____ If removable, bolts used (a) **(b)** (Describe or attach sketch) Drop Weight ft-lb Charpy Impact _ F F at temp of psi at 14. Design pressure Items below to be completed for all vessels where applicable. Location _ Size 15. Safety Valve Outlets: Number Rentorcem 16. Nozzles: Purpose (init. How Attached Vatenal Outlet, Drain ) Number Dia. or Size Туре Material Thickness Location 17. Inspection Manholes, No. Size Location Handholes, No. Size Openings: Threaded. No. Size Location ___ Legs _____(Number) Other _ _ Attached _ Skirt _____ Lugs _____(Number) 18. Supports: (Where & How) (Describe) 1 - If Postweid Heat-Treated.

- <del>2</del>2

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

Page 127 of 218

- 750-FORM NIS-2" ATTACHMENT SHEET 19 OF 79 W0#95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I 1. Nanufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) 2117 Castle Hayne Road, Wilmington, North Carolina 28401. ( Name and Address of NPT Certificate Holder ) DECATUR, AL 35609-2000 TVA (5) Manufactured for : _ ( Name and Address of N Certificate Holder for completed nuclear component ) _ Nat'l Bd. No. ___<u>N/A</u> 2. Identification - Certificate Holder's S/N of Part : A5535 (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson (b) Description of Part Inspected: _____ Control Rod Drive . Model # 7RDB144FG005 (c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1 3. REWARKS: _Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 16689274P001 SA182 - F316 3/8" thick x 1 1/16" OD 2. Indicator Tube 16689313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.065° max. dia. Reactor 3. Plug 159A1176P001 Yessel SA 182 - F304 Thisble Code Nold 1/4" thick x 0.812" OD P501P102 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD • > 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. Code Weld 6. Ring Flange 11485122P002, P003 P501P102 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" /D A 7. Cap Screw 117C4516P002 SA193-B6 6 ea. 1/2" dia. on 4 1/8" bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38° thick x 1.307° dia. Code Weld P501P102 6 Rolled before weld 9. Nut 137C5934P001 Q XM - 19 SA479 1.30" thick x 2.62" dia. Page 128 of 218

SHEET 2D or 79 W0 4 95-02229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPLIFENANCES' As required by the Provision of the ASME code Nulse, Section III, Div. I . "unufactured & Certified by : <u>Ganaral Electric Company Nuclear Energy (SENEL)</u> .2117 Castio Have Road, Wilminston, North Carolina 22401 ( Ame and Address of NT Certificate Bolder Co completed Bucket Company. N. (SENEL) .2117 Castio Have Road, Wilminston, North Carolina 22401 ( Ame and Address of NT Certificate Bolder Co completed Bucket Company. N. (America) ( S) Manufactured for : <u>TVA</u> <u>DECATURA JA 36500-2000</u> ( S) Manufactured for in the Decating At 36500-2000 ( S) Constructed According to Orasing No: <u>TGBERMGOR Roy 2</u> Doy, Prepared by D.L. Peterson. ( B) Description of Part Inspected: <u>Control Rod Driva</u> . Model # TRDB144FG005 ( c) Applicable ASE Code: Setton III. Edition 1922. Addeed bate WTS2. Case No. N207 13612 Class ( B) Applicable ASE Code: Setton III. Edition 1922. Models # DES DES Info. ( Belef description of service for which component was designed ) 		· · · · · ·
WD 4 95-02229-001         FORM N-2 NPT CERTIFICAT HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPUNTENANCESS As required by the Provision of the ASKE Code Rules, Saction III, Div. I As required by the Provision of the ASKE Code Rules, Saction III, Div. I         1. "Anodectured & Certified by : <u>General Electric Company Nuclear Energy (GENEL)</u> <u>2117 Cestion Hown Rook, Willington, North Centimes 2001</u> (Tase and Address of Wer Centificate Bulder)         (b) Manufactured for : <u>Marting How and Mateus of Wer Centificate Bulder</u> )         (b) Manufactured for : <u>Marting How and Mateus of Wer Centificate Bulder</u> )         (a) Centificate Bulder's 5M of Part : <u>AddS5</u> (b) Manufactured for : <u>Marting How and Mateus of Wer Centificate Bulder</u> )         (a) Centructed According to Drawing Ku: <u>Z8655346008 Rov 2</u> Dog. Prepared by <u>DL JeBURS00</u> .         (b) Bescription of Part Impected: <u>Control Red Orba</u> . <u>Model a IRDE 104F6005</u> .         (c) Applicable ASE Code: Section III. Edition <u>1974</u> . <u>Addeed bate VFLS</u> . Case No. <u>NOOI 1361-2</u> Class .         (Bread description of the ASE Code Section III. Costod at 1825 Del min. (b) Report Control Code Coston Coston of the ASE Code Section III. Edition and Stress Asport How Experiment is a spin the Section of the ASE Code Section III. The paper Code Description of the ASE Code Section III. The paper Code Description of the ASE Code Section III. Coston Code Section III. Coston Code Section III. Complexity Date Code Section III. Complexity Date Code Section III. Coston Code Section III. Code Section III. Code Section III. Code Section III. Code Section III. Code Se		FORM NIS-2 ATTACHMENT
FORM N.2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Provision of the ASME Code Rules, Section III, DIV. I         In vanufactured by Centrol Libertic Company Nuclear Energy (JE-NE).	_	
As required by the Provision of the ASRE Code Rules, Section 111, Div. 1           1. *anufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u> 2117 Casid Howan Road, Willminston, Noth Casilina 28401		
L112 Casile Haven Road. Willmington. North Caroling 28401. (* Here and Address of N FT Certificate Bolder: )         (b) Manufactured for: : M       DECATINA. M. 35609-2000. (* Mare and Address of N for Part : Address Bolder: Low completed aucleux component )         (c) Constructed According to Drawing Kn: [RESESJAG006 Rev 2] On Prepared by D.L.Petterson.       (b) Outcoming the inspected: Control Rod Drive, Model # TRDB144FG005.         (c) Constructed According to Drawing Kn: [RESESJAG006 Rev 2] On Prepared by D.L.Petterson.       (c) Applicable ASME Code: Section III. Edition 1974. Addends Date WT5. Case No. NEOT 13512. Class .         (c) Applicable ASME Code: Section III. Edition 1974. Addends Date WT5. Case No. NEOT 13512. Class .       (c) Applicable ASME Code: Section III. Edition 2007. Moriostationally tosted at 1825.psl.min. (* Diried Marchaeller) .         (c) Construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report ).       (c) Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Marchaeller & Ma		FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES" As required by the Provision of the ASHE Code Rules, Section III, Div. I
(Base and Address of NT Certificates Bolder ) (Name and Address of N Certificates Bolder ) (Name and Address of N Certificates Bolder for completed muchaer components ) (Name and Address of N Certificates Bolder for completed muchaer components ) (Name and Address of N Certificates Bolder for completed muchaer components ) (Name and Address of N Certificates Bolder for completed muchaer components ) (Name and Address of N Certificates Bolder for completed muchaer components ) (Name and Address of N Certificates Bolder for completed muchaer components ) (Name and Address of N Certificates Bolder for completed muchaer components ) (Name and Address of N Certificates Bolder for Certificates Bolder for Certificates Bolder for Certificates Bolder for Certificates Bolder for Certificates Bolder for Certificates Bolder for Certificates Bolder for Certificates Bolder for Certificates Bolder for Appurtenance as defined in the component Besign Specification and Stras Report ). (Nate: 09/25/95 Signed <u>CERE</u> by (Certificate Bolder for Appurtenance Certificates Bolder for Appurtenance Certificates Bolder for Appurtenance Design information on file at <u>Certificate Bolder for Appurtenance</u> Design specification and Stras Report ). (Certification of Design for Appurtenance Design information on file at <u>Certificate Bolder for Appurtenance</u> Design specification artificates Bolder (Certificate Bolder for Appurtenance) (Certification of Stras Report of Stras Report if the specification Report (Certificate Bolder for Appurtenance) (Certification certified by <u>B.N.Siddhar</u> Prof. Eng. State Call. Reg. No. <u>M018645</u> (Certificates Bolder for Stras Report of State Call. Reg. No. <u>M018645</u> ) (Certificates Bolder for State Call. Reg. No. <u>M018645</u> ) (Certificate Bolder for State Call. Reg. No. <u>M018645</u> ) (Certificates Bolder for State Call. Reg. No. <u>M018645</u> ) (Certificates Bolder for State Call. Reg. No. <u>M018645</u> ) (Certificates Bolder for State Call. Reg. No. <u>M018645</u> ) (Certificates Bolder J. Reg. Ro. <u>M018645</u> ) (Certificates Bolder of S	:	1. Manufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u>
2. Identification - Certificate Holder's S/N of Part : <u>A4056</u> NailBd. No. <u>N/A</u> . (a) Constructed According to Drawing No: <u>TG8E534G003 Ray 9</u> Deg. Prepared by <u>D.L.Pelerson</u> . (b) Description of Part Inspected: <u>Control Rod Drive, Model # TRB9144FG005</u> . (c) Applicable ASME Code: Section III. Edition <u>1974</u> . Addends Date <u>WT5</u> . Case No. <u>N207 1361-2</u> Class. 3. REWARS: <u>Standard part for use with Reactor, Phytopsthicable Netsed at 1825 Cost. min.</u> (b) Edit description of earticles for which component was designed) (b) Edit description of the SME Code: Section III. ( Dr. pp) Edit Code Section III. ( Dr. pp) Edit Designed Specification and Stress Report 1. (b) Edit description of the SME Code: Section III. ( Dr. pp) Edit Designed Specification Molder for appurtent resonsibility of the NPI Certificate Bolder. ( Brided Edit Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>Certificate</u> Bolder. ( Brided Edit Design Specification and Stress Report ). Certificate of Authorization Expires: <u>5/16/36</u> . Certification of Authorization No. : <u>NPT N- 1151</u> Certification of 11 at <u>GE Company. San Josse</u> . California Stress analysis report on rile at <u>GE Company. San Josse</u> . California Stress analysis report certified by <u>BM.Stidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> O222AE253 Rev 1 Stress analysis report certified by <u>EM.Stidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> O222AE254 Rev 1 Stress analysis report certified by <u>EM.Stidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> O222AE254 Rev 1 Stress analysis report certified by <u>EM.Stidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> O222AE254 Rev 1 Stress analysis report certified by <u>EM.Stidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> Difficient of a pressure resonal indury or property danges or a loss of any king for or conting and propertion of this geri In Stress Report of State <u>Cali</u>		<u>2117 Castle Hayne Road, Wilmington, North Carolina 28401</u> ( Name and Address of NPT Certificate Holder )
<ul> <li>(a) Constructed According to Drawing No: <u>78985346008 Rav 9</u> Dwg. Prepared by <u>D.L.Pelerson</u>.</li> <li>(b) Description of Part Inspected: <u>Control Rod Drive. Model # 7RDB144FG005</u>.</li> <li>(c) Applicable ASM Eode: Section III. Edition <u>1974</u>. Addenda Date <u>WT5</u>. Case No. <u>N207 1381-2</u> Class, 3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tostod at 1825 Dog.min</u>. (c) Exist description of service for which component was designed )</li></ul>	×	
(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u> . (c) Applicable ASME Code: Section III. Edition <u>1974</u> , Addenda Date <u>WTS</u> , Case No. <u>N207 1361-2</u> Class, . REMARKS: <u>Standard part for uses with Reactor. Mydrostatically tested at 1825 psi.min.</u> <u>(bited description of escuite for which seeponent was designed )</u> . 3. REMARKS: <u>Standard part for uses with Reactor. Mydrostatically tested at 1825 psi.min.</u> <u>(bited description of escuite for which seeponent was designed )</u> . Sheet 1 of We certify that the statements in this report are correct and this vessel part or apportenance as defined in the corresponsible for furnishing a separate beilgh postficiation and Stress Report II the applicable Designed Specification and Stress Report II the applicable of a separate beilgh postficiation of Authorization No. : <u>NPTN-1151</u> Date: <u>(B)/280/95</u> Signed <u>CENE</u> by <u>Viscour</u> Stress Report II the applicable of the component being Specification and Stress Report II the applicable of the component being Specification and Stress Report II the supercentive ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN-1151</u> Certification of file at <u>CE Company. San Jose. California</u> D2226253 Rev 2 Design information on file at <u>GE Company. San Jose. California</u> D2226253 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> . D22262525 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M0188466</u> In subjectification certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M0188465</u> Inspected the part of a pressure vessel described in this Partial Data Report of <u>Sibil Olivent Caroling</u> have inspector. <u>Moter inspectors</u> Myonledge and bellef, the MPI Certificate Roler of a subject in subject in the ASME Code Section III. By signing this corfification <u>Moteri</u>	•	2. Identification - Certificate Holder's S/N of Part : <u>A4056</u> Nat'l Bd. No. <u>N/A</u>
(c) Applicable ASME Code: Section III. Edition <u>1974</u> . Addends Date <u>WT5</u> . Case No. <u>N207 1361-2</u> Class . 3. REMARKS: <u>Standard part for use with Reactor. Hydrostnically tested at 1825 ps. min.</u> (bitst description of service for mitch component was designed). (bitst description of service for mitch component was designed). (bitst description of the ASME Code Section III. ( The apportenance as defined in the component was designed). (bitst description of the ASME Code Section III. ( The apportenance as defined in the component was designed). (bitst description of the ASME Code Section III. ( The apportenance is not included the component Design Specification and Stress Report If the apportenance is not included the component Design Specification and Stress Report If the apportenance is not included the component Design Specification and Stress Report If the apportenance is not included the component Design Specification and Stress Report If the apportenance is not included the component Design Specification of Design for Appurtenance Design information on file at <u>GE Company. San Jose</u> . California Stress analysis report on file at <u>GE Company. San Jose</u> . California DC22A6253 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> . 0022A6253 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M0188465</u> Mo18846 1. the undersigned, holding a valid comission by the Matinal Board of Boiler and Pressure Inspectors and/or the scordance with the ASHE Code Section III. By signing this certification certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M0188465</u> and state that to the best of ny knowledge and belief, the MP1 Cartificate Report of <u>State Of Noth Caroling</u> and employed <u>Description of State Of Noth Caroling</u> have inspected the part of a pressure vessel described in this Partial Data Report of a loss of any King arises from or connected with thas Inspector. <u>Joshim King Code</u> Section I		" (a) Constructed According to Drawing Ko: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.Peterson</u>
3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically lested at 1825 psl.min.</u> ( brief description of service for which component was designed ) 		(b) Description of Part Inspected: <u>Control Rod Drive . Model # 7RDB144FG005</u>
<pre>( Brief description of service for which component was designed )</pre>		, (c) Applicable ASME Code: Section III, Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
Ne certify that the statements in this report are correct and this vessel part or apportenance as defined in the conforms to the rules of construction of the ASH Code Section III. (The applicable Designed Specification and Stress Report I for apportenance as defined in the construction of the NFI Certification and Stress Report I for apportenance is responsible for furnishing a separate Design Specification and Stress Report I for apportenance is not included the component Design Specification and Stress Report I for apportenance is not included the component Design Specification and Stress Report I for apportenance is not included the component Design Specification and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, and Stress Report I for apportant, San Jose, California         Ocz2A6253 Rev. 2       Design information on file atGE Company, San Jose, California         Ocz2A6253 Rev. 2       Design specification certified by		3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min.</u>
Ve certify that the statements in this report are correct and this vessel part or appurtenance as defined in the conforms to the rules of construction of the ASHE Code Section III. ( The applicable Designed Specification and Str Report are not the responsible ity of the NPT Certificate Kolder for parts. An NPT Certification Kolder for appurten- tis responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included the component Design Specification and Stress Report }. Date: <u>09/26/95</u> Signed <u>GENE</u> By <u>Conference</u> ( SC QA Representive ) Certificate of Authorization Expires: <u>5/16/36</u> Certification of Authorization No. : <u>NPTN - 1151</u> Certificate of Authorization Expires: <u>5/16/36</u> Certification of Authorization No. : <u>NPTN - 1151</u> Certificate of file at <u>GE Company. San Jose</u> . <u>California</u> Stress analysis report on file at <u>GE Company. San Jose</u> . <u>California</u> DC22A6253 Rev. 2 Design specification certified by <u>BN.Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> . DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018846</u> . 1. the undersigned, holding a valid commission by the Mational Board of Boiler and Pressure Inspectors and/or the State or Province of Morth Caroling, and employed by <u>Department of Lake</u> or <u>State Of North Caroling</u> have and state that to the best of my mersure reseal belief, the MPT Certificate Units Part II By signing this certificate, neither the Inspector on file at Report on <u>State Of North Caroling</u> have concarent the ASHE Code Section II. By signing this certificate, neither the Inspector for subset of any ensure shall be lable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with the SME Code Section II. By signing this certificate, neither the Inspector's Signature Net 121. Ohio, WC 3868 PA Reticual Board, State, Province And Ro. *Supplemental sheets in form of lists, sketches or drawing may be used Re		( Brief description of service for which component was designed )
conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Str responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included the component Design Specification and Stress Report J. Date: <u>09/26/95</u> Signed <u>GE-NE</u> By <u>Stress Report J.</u> Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN-1151</u> Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN-1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> 0C22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> 0C22A6254 Rev I Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> I. the undersigned, holding a valid commission by the National Deard of Bobier and Pressure Inspectors and/or the sign specification of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector on rhis employer makes any warranty, expressed or implied, concerning the part of a pressure longence for one for any pressure inspector on this employer signa to the the SME Code Section III. By signing this certificate, neither the Inspector on rhis employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report on <u>MC 1231. Ohio. WC 3686 PA</u> <u>7/AS</u> , <u>1995</u> <u>fumore PCAMP</u> <u>NC 1231. Ohio. WC 3686 PA</u> *Supplemental sheets in form of Lists, sketches or drawing may be used report is included on each sheet, and (3) each sheet is numbered and submeter of sheets is recorded in 115 W.		- Sheet 1 of 2
Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose California</u> Stress analysis report on file at <u>GE Company. San Jose California</u> 02226253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> 02226254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <b>Certification of Shop Inspection</b> I, the undersigned, holding a valid comission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Morth Carolina</u> and employed by <u>Department of Labor</u> of <u>State ON Onth Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>MUT - 1995</u> and state that to the best of my knowledge and belief, the NPT Certificate Holer has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied. concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>9/AS</u> , <u>1995</u> <u>Mucon PS Autor</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>Pater</u> Inspector's Signature <u>NC 1231, Ohio, WC 3686 PA</u> <u>Pater</u> Inspector's Signature <u>NC 1231, Ohio, WC 3686 PA</u> Pater I Is Included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in 1tem 3. "REMARKS".		We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stres Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenan is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included i the component Design Specification and Stress Report ).
Certification of Design for Appurtenance         Design information on file at		Date: 09/26/95 Signed <u>GE-NE</u> By (SC QA Representive )
Design information on file at		Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN-1151</u>
Stress analysis report on file at <u>GE Company. San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <b>Certification of Shop Inspection</b> I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>M17, 1795</u> and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor or connected with this inspection. <u>9/r5</u> , <u>195</u> <u>Murpher PErupher</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>National Board</u> , State, Province And No. *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2* x 11*, (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. *REMARKS*. (17/10)		Certification of Design for Appurtenance
DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>North Carolina</u> and employed by <u>Department of Labor of State of North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>M.T. 1995</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. <u>NC 1231, Ohio, WC 3686 PA</u> Date* $\frac{9/26}{1395}$ <u>M.C. PErson</u> Of Lists, sketches or drawing may be used provided (1) size is $8-1/2^m$ x 11 ^m , (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".		Design information on file at <u>GE Company, San Jose, California</u>
Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <b>Certification of Shop Inspection</b> I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector on this employer shall be Hable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. $\frac{-9/26}{Date} \frac{199}{Date} furgent fight form of lists, sketches or drawing may be used provided (1) size is 8-1/2^m \times 11^m, (2) information in 1-2 on this DataReport is included on each sheet, and (3) each sheet is numbered andnumber of sheets is recorded in Item 3. "REMARKS".(1770)$		Stress analysis report on file at <u>GE Company, San Jose, California</u>
Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Call</u> . Reg. No. <u>M018646</u> <u>Certification of Shop Inspection</u> I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>177</u> , <u>1995</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>7/r.ś. (195</u> <u>furge figure</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>Date'</u> Inspector's Signature <u>NC 1231, Ohio, WC 3686 PA</u> Provided (1) size is $8-1/2^m$ x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".		OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>177</u> , <u>795</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>9/26</u> , <u>195</u> <u>fume ferme</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>Date</u> . <u>8 Supplemental sheets in form of lists</u> , sketches or drawing may be used provided (1) size is $8-1/2^{m} \times 11^{m}$ , (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".		OC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
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>177</u> , <u>1995</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>7/rs</u> , <u>1995</u> <u>furge former</u> <u>NC 1231, Ohio, WC 3686 PA</u> Date ¹ <u>Inspector's Signature</u> <u>NC 1231, Ohio, WC 3686 PA</u> <i>Supplemental sheets in form of lists, sketches or drawing may be used</i> provided (1) size is $8-1/2^{m} \times 11^{m}$ , (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".		Certification of Shop Inspection
<u>9/26</u> 195 <u>furme f chem</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>Date</u> <u>Date</u> <u>National Board</u> , State, Province And No. *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (17/10)		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>199</u> , <u>1995</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or
*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".		
		*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

FORM N-2 ( back )

,•**`** 

5

			······································		exchangers.
42	Shell: Material(Kind & Spec. No	.) ( Min. of Hange Specified )		e in. Dia ft.	1n. Length ft 1n.
5.	Seams; Long	н.т		R.T	EfficiencyX
	Girth	н.т		R.T	No. of Courses
ō.	Heads: (a) Material		T.S	(b) Haterial	T.S
	} <u> </u>	s Radius Radius	Ratio Apex	Angle Radius	Flat Side to Press. * • Diameter ( conv. or conc. )
	If removable, bolts used	(Macenal, Spec. No., T.S	, Othe Size Number)	r fastening(D	eechbe or attach sketch )
7.	Jacket Closure:			mensions, if bolts, describe or sketch	······································
	D	*	•		aight ft-lb
8.	2 Design pressure	1250 01	i at 575	<u> </u>	
	ems 9 and 10 to be complete				
			Dia.	Thickness	in. Attachment
~.	* Floating	(Kinda Sj Naterial	Han No.) (Such	cttopressure) Thickness	in. Attachment
					mber Type
	10063. Nates lat	0.0		·	(Str. or U)
Ite	ems 11 - 14 incl. to be con	mpleted for inner cham	bers of jacketed ve	ssels, or channels of h	eat exchangers.
÷	(Kind & Spec. No	ia.) (Min. of Pange Specified)		e in. Dia ft	in. Length ft in. EfficiencyX
	Girth				No. of Courses
:3					T.S
	neaus, lat raceriar	•••••••••••••••••••••••••••••••••••••••			
(a) (b)	) Top.bottom.ends	sş Radius Radius — — — —	Ratio Ape>	ial Hemispherical Angle Radius	Diameter ( conv. or conc. )
(a) (b)	Location Thicknes ) Top.bottom,ends ) Channel If removable, bolts used	sş Radius Radius — — — —	Ratio Ape>	Angle Radius	Diameter ( conv. or conc. )
(0)	) Top,bottom,ends ) Channel If removable, bolts used	sş Radius Radius — — — —	Ratio Ape>	Angle Radius Other fastening Orop W Charpy o	Oiameter ( conv. or conc. ) (Ovecnote or attach statch) eight Impact ft-lb
(6)	) Top,bottom,ends ) Channel If removable, bolts used Consign pressure	sş Radius Radius (a)(b)	Ratio         Apex          (c)	Angle Radius	Oiameter ( conv. or conc. ) (Ovecnote or atlach statch) eight Impact o
(b) 14. It:	) Top, bottom, ends ) Channel if removable, bolts used Design pressure ems below to be completed to	<pre>ss Radius Radius (a) (b) for all vessels where</pre>	Ratio Aper (c) psi at applicable.	• Angle Radius • Other fastening Orop W Charpy F at tem	Diameter ( conv. or conc. )
(b) 14. 	) Top, bottom, ends ) Channel if removable, bolts used Design pressure tems below to be completed to	sş Radius Radius (a)(b)	Ratio         Apex          (c)	Angle Radius Other fastening Orop W Charpy o	Diameter ( conv. or conc. )
(b) 14. 	) Top,bottom,ends ) Channel If removable, bolts used Design pressure ems below to be completed to Safety Valve Outlets: No Nozzles: Purpose (Iniet,	<pre>ss Radius Radius (a) (b) for all vessels where</pre>	Ratio Aper (c) psi at applicable. Size	• Angle Radius • Other fastening Orop W Charpy F at tem	Diameter ( conv. or conc. )
(b) <u>14.</u> <u>15.</u> 16.	) Top,bottom,ends ) Channel If removable, bolts used 2 Design pressure ems below to be completed for Safety Valve Outlets: Ni Nozzles: Purpose (Net, Outer, Dram) Inspection Manholes, Openings: Handholes,	<pre>ss Radius Radius (a) (b) for all vessels where unber</pre>	Ratio Aper (c) psi at applicable. Size	Angle Radius Other fastening Orop W Charpy F at tem Locati	Diameter ( conv. or conc. ) (Describe or attach statch) eight Impact F
(b) <u>14.</u> <u>15.</u> 16.	) Top,bottom,ends ) Channel If removable, bolts used 2 Design pressure ems below to be completed for Safety Valve Outlets: Nozzles: Purpose (kiet, Oxiot, Dram) Inspection Manholes, Openings: Handholes, Threaded,	ss Radius Radius (a)(b) for all vessels where umber Number No No Lugs	Ratio         Apex          (c)	Angle Radius Other fastening Orop W Charpy F at tem Locati Meterial Location Location Location Docation Cother Cother	Diameter ( conv. or conc. ) (Describe or attach sketch) eight Impact F

Page <u>130</u> of <u>218</u>

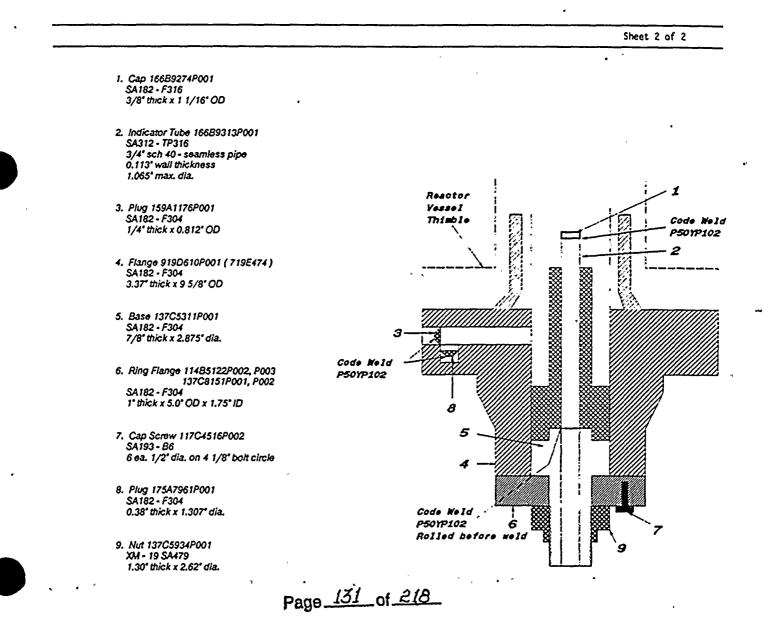
FORM NIS-2 ATTACHMENT SHEET 21 OF 19 WO # 95-022229-001

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

1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)

2117 Castle Hayne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Bolder )

- (b) Manufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> (Name and Address of N Certificate Holder for completed nuclear component)
- 2. Identification Certificate Holder's S/N of Part : <u>A4056</u> Nat'l Bd. No. <u>N/A</u>
  - (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson
  - (b) Description of Part Inspected: <u>Control Rod Drive</u>, Model # 7RDB144FG005
  - (c) Applicable ASME Code: Section III. Edition 1974. Addenda Date W75. Case No. N207 1361-2 Class 1
- 3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.</u> ( Brief description of service for which component was designed )



• •

n • A,* * *

· · · · · ·

• • , **^** 

**x** .

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

FORM NIS-2 ATTACHMENT SHEET 22 OF 79

WO # 95-022229-001

1. Manuf	factured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u>
	2117 Castle Hayne Road, Wilmington, North Carolina 28401
	• ( Name and Address of NPT Certificate Holder )
(b)	Manufactured for :         TVA         DECATUR, AL 35609-2000           (Name and Address of N Certificate Holder for completed nuclear component)
2. Ident	tification - Certificate Holder's S/N of Part : <u>A3682</u> Nat'l Bd. No. <u>N/A</u>
(a)	Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.Peterson</u>
(b) ⁻	Description of Part Inspected: <u>Control Rod Drive; Model # 7RDB144FG005</u>
(c)	Applicable ASME Code: Section III , Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3. REMAR	RKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed )
	( prior description of service for which component was designed )
	A
	Sheet 1 of 2
confor Report is res	rtify that the statements in this report are correct and this vessel part or appurtenance as defined in the code rms to the rules of construction of the ASHE Code Section III. ( The applicable Designed Specification and Stress t are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances sponsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in omponent Design Specification and Stress Report ).
Date:	09/26/95 Signed <u>GE-NE</u> By S. C. (WPT Certificate Holder ) SC QA Representive )
Certi	ficate of Authorization Expires: 6/16/96 Certification of Authorization No. : <u>NPTN-1151</u>
[	Certification of Design for Appurtenance
Deal	gn information on file at <u>GE Company, San Jose, California</u>
i	ss analysis report on file at <u>GE Company, San Jose, California</u>
1	A6253 Rev. 2
	gn specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
DC22	A6254 Rev 1 ss analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	Certification of Shop Inspection
Stat insp and	he undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the e or Province of <u>North Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have ected the part of a pressure vessel described in this Partial Data Report on, <u>795</u> , state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in rdance with the ASME Code Section III.
By s conc sha i	Igning this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, erning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer l be liable in any manner for any personal injury or property damages or a loss of any kind arising from or ected with this inspection.
	9/26. 1995 Jume, P. Errere NC 1231, Ohio, WC 3686 PA Date Inspector's Signature National Board, State, Province And No.
*Supp prov Repo numb	plemental sheets in form of lists, sketches or drawing may be used ided (1) size is $8-1/2^{\prime\prime} \times 11^{\prime\prime}$ , (2) information in 1-2 on this Data ort is included on each sheet, and (3) each sheet is numbered and per of sheets is recorded in Item 3. "REMARKS".
	Page 132 of 218

υ

۰y

FORM N-2 ( back )

••

ι

Items 4-8 [nc]	. to be completed for	single wall vessels, jacke	ts vessels, or shells of t	neat exchangers.
1 Shell: Ma	terial T.S (Kind & Spec. No.) (Min. of	Thickness in. A	prrosion Nowance in. Dia	ft In. Length ft in.
5 Seams: Lo	ng	н.т.	R.T	EfficiencyX
	rth	_ 1	R.T	No. of Courses
5. Heads: (a	) Material	T.S	(b) Haterial	T.S
Location ( Bottom, Er	ds) Thickness Rad		Concial Hemispher Apex Angle Radius	ical Flat Side to Press Diameter (conv. or conc.)
	le, bolts used		Other fastening	·
	(¥	atenal, Spec. No., T.S. Size Number)		(Describe or attach stratch)
•		(Describe as oges and weld, ber, etc. )	f ber give dimensions, if bolts, describe ( D C	orsuch) rop Veight ft-lb
3. Design pro	2 essure1250	psi at	<u> </u>	t temp ofF
Items 9 and 10	) to be completed for t	ube sections		
3. Tube Shee	ts: Stationary. Mater Floating. Mater	ial Di (Kind & Spec. No.) ial Di	a Thickn (Subject to pressure) a Thickn	ess in. Attachment
10. Tubes: M				Number Type
Items 11 - 14	incl. to be completed	for inner chambers of jack	eted vessels, or channels	of heat exchangers.
11. Shell: H	aterial T.S T.S	Thickness 🛌 in. A	Corrosion 11owance in. Dia	ft in. Length ft in.
12. Seams: L	ong	H.T	R.T	EfficiencyX
		1 H.T	R.T	No. of Courses
13. deads: (	a) Material	T.S	(b) Material	T.S
Locati (a) Top.botto	on Thickness Rad	wn Knuckle Elliptica dius Radius Ratio	Concial Hemispher Apex Angle Radius	ical Flat Side to Press. Diameter (conv. or conc.)
(b) channet If remova	ble, bolts used (a)	(b)(c)	Other fastening	(Describe or attach sketch)
	2	* À		harpy Impact ft-lb
14. Design pr	-	psi at	Fa	t temp of F
	· · · · · · · · · · · · · · · · · · ·	vessels where applicable.		
15. Safety Va	lve Outlets: Number _	Size	• ا	ocation
16. Nozzles:	Purpose (Iniet, Oudet, Drain ) Number	Dia. or Size Typ	• Matonal Thick	Peinforcement ness Material How Attached
- 17. Inspectio Openings:	Handholes, No.	<pre>     Size     Size     Size     Size </pre>	Location	
18. Supports:	Skirt L (Yes or No)	ugs Legs (Number)	(Number) Other(De	Attached
	id Heat-Treated. Internal or external creasure with c	bincident temperature when applicable.	ĩ	• •

Page 133 of 218

FORM NIS-2 ATTACHMENT SHEET 23 OF 79 WO# 95-022229-001

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

۱.	Manufactured & Certified by : <u>General E</u>	lectric Company Nuclear Energy (GE-NE)
	<u>2117 Cas</u>	tle Hayne Road, Wilmington, North Carolina 28401 Name and Address of NFT Certificate Holder )
		DECATUR, AL 35609-2000
	( Name and Ad	dress of N Certificate Holder for completed nuclear component )
٤.	Identification - Certificate Holder's S/N	of Part : <u>A3682</u> Nat'l Bd. No. <u>N/A</u>
, .	(a) Constructed According to Drawing No:	768E534G008 Rev 9 Dwg. Prepared by <u>D. L. Peterson</u>
	(b) Description of Part Inspected:C	ontrol Rod Drive , Model # 7RDB144FG005
•	(c) Applicable ASHE Code: Section III .	Edition <u>1974</u> . Addenda Date <u>W'75</u> . Case No. <u>N207 1361-2</u> Class <u>1</u>
3.	REMARKS: Standard part for use with Rea	nctor. Hydrostatically tested at 1825 psi. min.
	{ Brief description of	service for which component was designed )
	· · · · · · · · · · · · · · · · · · ·	Sheet 2 of 2
		•
، *	1. Cap 166B9274P001 SA182 - F316	
	3/8° thick x 1 1/16° OD	
	2. Indicator Tube 16689313P001	•
	SA312 - TP316 3/4" sch 40 - seamless pipe	
	0.113" wall thickness	•
	1.065° max. dia.	
	3. Plug 159A1176P001	Reactor Vessei
	SA182 - F304 1/4* thick x 0.812* OD	Thimbio Code Nold
	174 UIKK X 0.812 OD	P501102
	4. Flange 919D610P001 (719E474)	
	SA182 - F304 3.37° thick x 9 5/8° OD	
	3.37 allex x 9 378 00	
	5. Base 137C5311P001	TITITITI 🕺 🖉 TIDITITI
	SA182 - F304 7/8° thick x 2.875° dia.	
	6. Ring Flange 114B5122P002, P003	Code Weld
	137C8151P001, P002 SA182 - F304	
	1° thick x 5.0° OD x 1.75° ID	's <i>11111</i>
	7. Cap Screw 117C4516P002 SA193 - B6	5
	6 ea. 1/2° dia. on 4 1/8° bolt circle	<b>4</b> — <b>////</b>
	0 01 175170510001	
	8. Plug 175A7961P001 SA182 - F304	
	0.38° thick x 1.307° dia.	Code NoId ,
		Rolled before weld
	9. Nut 137C5934P001 XM - 19 SA479	9
	1.30° thick x 2.62° dia.	

Page <u>134</u> of <u>218</u>

## . v

e

5

. •

•

. v

4

e đ

•

	FORM NIS-2 SHEET 24 0 WO-# 95-020	
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURT As required by the Provision of the ASME Code Rules, Section III, D	ENANCES*
1.	Hanufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)	
	<u>2117 Castle Hayne Road, Wilmington, North Carolina 28401</u> ( Name and Address of NPT Certificate Bolder )	
	(b) Hanufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> (Name and Address of N Certificate Holder for completed nuclear component	٤)
2.	Identification - Certificate Holder's S/N of Part : <u>A4209</u> Nat'l Bd. No. <u>N/A</u>	
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L. Peterson</u>	•
	(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>	
	(c) Applicable ASKE Code: Section III, Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 13</u>	<u>61-2</u> Class <u>1</u>
3.	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.</u> (Brief description of service for which component was designed)	
	<u> </u>	Sheet 1 of 2
	We certify that the statements in this report are correct and this vessel part or appurtenance as defi conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specific Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is the component Design Specification and Stress Report ).	ation and Stress for appurtenances not included in
	Date: 09/26/95 Signed <u>GE-NE</u> By SC QA Representive Continue of the SC QA Representive Control of the SC QA Representive SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA SC QA	·• )
	Certificate of Authorization Expires: 6/16/96 Certification of Authorization No. : NPT.N. 1151	
<b></b>	Certification of Design for Appurtenance	
	Cesign information on file at GE Company, San Jose, California	-
	Stress analysis report on file at <u>GE Company, San Jose, California</u>	-
	OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>	
	DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018644</u>	<u>6</u>
[	· Certification of Shop Inspection	
	I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspector State or Province of <u>North Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Car</u> inspected the part of a pressure vessel described in this Partial Data Report on <u>State of North Car</u> and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed thi accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed of concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his shall be liable in any manner for any personal injury or property damages or a loss of any kind arisi connected with this inspection.	<u>Olina</u> have , <u>795</u> . s part in or implied, s employer ing from or
	<u>9/26.1795</u> Date: <u>Date: Date: <u>PErun</u> <u>PErun</u> <u>NC 1231, Ohio, WC 3686 PA</u> Inspector's Signature National Board, State, Province</u>	And No.
*	Supplemental sheets in form of lists, sketches or drawing may provided (1) size is 8-1/2" x 11", (2) information in 1-2 on t Report is included on each sheet, and (3) each sheet is number number of sheets is recorded in Item 3. "REMARKS".	be used his Data ed and
•		(07/90)

- 1

Ŷ

FORM N-2 ( back )

* >

	- • •	ci. to be comp		gie watt tes	Sels, Jackets	s vessels, or		Treat GAG		
, 31	nel): 1		T.S c. No. ) ( Min. of Pany		Cor in. All	rrosion lowance 1	n. Dia	ft	in. l	.ength ft In.
. 3	eams:	Long				R.T			Efficie	encyX
		Girth		н.т.'		R.T			No. of	Courses
. <del>-</del>	eads:	(a) Material _		<u> </u>	r.s	(b) Ma	terial _		I.	.s
3	ocation ottom,	Ends ) Thick	Crown ness Radius		Elliptical Ratio	Concial Apex Angle	Hemisphe Radius			Side to Press. ( conv. or conc. )
DJ		able, bolts us				Other fasten	ing			
-		-	( Meteri	el, Spec. No., T.S.	Size Humber)			(Deec	nbe of sitach	ekelch )
		losure:	(0	secribe as oges ar	nd weid, ber, etc. If b	ier give dimensions, if	f bolts, describ	or <del>shinch)</del> Drop Weig Charpy Im	ht paçt	ft-1b
3. C	esign p	2 pressure	1250	ps	i at	575	°F	at temp o	of	°F
		10 to be compl			<u></u> =					
3 <i>.</i> -	Loe She									ttachment
o. T	ubes:	Material		0.0	in. Thic	kness	inches or ga	ge. Numb	er	Type
		4 incl. to be								
	Seams:	(Kind & Spe	ic. No. ) ( Vin. of Pen	nge Specified) 1 H.T		R.T			Effici	Length ft In ency%
		Girth		н.т.						Courses
3	eads:	(a) Material			T.S	(b) Ma	aterial _		T	.s
	Top.bott	tom, ends	Crown kness Radius		Elliptical Ratio	Concial Apex Angle	Hemisphe Radius		lat Jiameter	Side to Press. ( conv. or conc. )
(6) 0	Channel If remov	vable, bolts u	sed (a)	<u>    (b)                                </u>	(c)	Other	fastenir	ig		nbe or attach sketch )
								Drop Veig	pht	•
		2						Charpy 14	water	
							0			ໍ
		pressure	vd for all ve		psi at		0	at temp of	of	°F
Items	s pelow	to be complete		ssels where	applicable.		°F	at temp of		°F
Items 5. S	s pelow Safety \	to be complete Valve Outlets:		ssels where	applicable.		°F		· · · · · · · · · · · · · · · · · · ·	F
Items 5. S	s pelow Safety \	to be complete		ssels where	applicable.	Material	°F	at temp of		F
Items 5. 5 6. 5	s pelow Safety V Nozzles:	to be complete to be complete Valve Outlets: Purpose (Iniet, Oudet, Drain)	Number Number  No No	Dia_ or Size	applicable. Size  	Material	°F	at temp of	Aentorce Material	ment How Attached
1tems 5. 5 6. 5	s pelow Safety N Nozzles: Inspect	to be complete to be complete Valve Outlets: Purpose (Miet, Outer, Dram)  ion Manholes, S: Handholes Threaded,	Number Number 	Dia or Size	applicable. Size Size Size Size Legs	Material	F	at temp of	Aentorce Material	F F

2 - Lot other internal or external pressure with coincident temperature when applicable.

Page 136 of 218

FORM NIS-2 ATTACHMENT SHEET 25 OF 79 WD # 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I 1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) 2117 Castle Havne Road, Wilmington, North Caroling 28401 ( Name and Address of NPT Certificate Bolder ) DECATUR, AL. 35609-2000 (b) Manufactured for : _ ( Name and Address of N Certificate Holder for completed nuclear component ) _ Nat'l Bd. No. ___<u>N/A</u>_ 2. Identification - Certificate Holder's S/N of Part : <u>A4209</u> (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson (b) Description of Part Inspected: <u>Control Rod Drive</u>. Model # 7RDB144FG005 (c) Applicable ASME Code: Section III, Edition 1974, Addenda Date <u>W75</u>, Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 166B9274P001 SA182 - F316 3/8" thick x 1 1/16" OD 2. Indicator Tube 166B9313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113' wall thickness 1.065" max. dia. 1 Reactor 3. Plug 159A1176P001 Vessel SA182 - F304 Thimble Code Nold 1/4" thick x 0.812" OD P501P102 8 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. 1.1 Code Weld 6. Ring Flange 11485122P002, P003 P50YP102 137C8151P001, P002 SA182 - F304 1* thick x 5.0* OD x 1.75* ID я 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2° dia. on 4 1/8° bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" dia. Code Weld P50YP102 6 Rolled before weld 9. Nut 137C5934P001 9 XM - 19 SA479 1.30° thick x 2.62° dia. Page 137 of 218

• 

· · · · ·

ù.

• 

· · · · ·

ŵ 

.

• 

***	And the second second second second second second second second second second second second second second second
XXXXXX Y	FORM NITS-2-ATTACHMENT
1.000000	SHEET 26 OF 79
	WO# 95-022229-001
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I
-	i. Hanufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
-	2117 Castle Havne Road, Wilmington, North Carolina, 28401 ( Name and Address of NPT Cartificate Holder )
	(b) Manufactured for : <u>TVA</u> <u>DECATUR.AL 35609-2000</u> ( Name and Address of N Certificate Holder for completed nuclear component )
	2. Identification - Certificate Holder's S/N of Part : <u>A4743</u> Nat'l Bd. No. <u>N/A</u>
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.Peterson</u>
	(b) Description of Part Inspected:
*	(c) Applicable ASKE Code: Section III. Edition <u>1974</u> . Addenda Date <u>$W75$</u> . Case No. <u>N207 1361-2</u> Class <u>1</u>
	3. REMARKS: <u>Standard part for use with Reactor, Hydrostatically tested at 1825 psi, min.</u> ( Brief description of service for which component was designed )
-	. Sheet 1 of 2
	the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By
	Certificate of Authorization Expires: 6/16/96 Certification of Authorization No. : <u>NPT N - 1151</u>
	Certification of Design for Appurtenance
	Design information on file at GE Company, San Jose, California
	Stress analysis report on file atGE Company, San Jose, California
	OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
	DC22A6254 Rev 1
l	, Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
. [	Certification of Shop Inspection
-	I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>115</u> , <u>115</u> , <u>115</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
	9/26.1995 Jenne PErre NC 1231. Ohio. WC 3686 PA Date ' Inspector's Signature National Board, State, Province And No.
	*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".
	Page <u>138 of 218</u>

1988 (S. 1987)

*، ب , . .

1

· ----

2.

		, er til	-	ADW 17 -				19 2 • 20 5 <b>2</b>
	e and the substance							
Ite	ms 4-3 Incl. to be comp					- I CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A CARLES AND A		
4,	Shell: Material	T.S c.No.) (Min. of Pang	Nominal Thickness Specified)	in. A1	lowance	in. Diaft	in. Leng	thft
5.	Seams: Long	<u>^ .</u>	н.т.]	** V.	<u></u>	1.033 N	Efficiency	·
6.	Girth Heads: (a) Haterial`_		н.т. <u>-</u>	T.S.	Alita-	Vity attention of the	Ko. of Cou	rses Job under Erst
	Location ( Top dottom, Ends ) Thick	Crown	Knuck le	Elliptical	Concial	Hemispherical	"Flat" (11+) Si	•
(a) (b)								•
	If removable, bolts us	( Meterne	I, Spec. No., T.S.	Stre Number )	Other faster	(0	escribe or sitach sheld	
7.	Jacket Closure:	(De	ecribe as ogee a	nd weld, ber, etc. If t	ber give dimensions, i	I bolts, describe or simila	KAT 1471	
						Drop W Charpy	eight	ft-1b
8.	Design pressure	1250	<u> </u>	1 at	575	Fattem	p of	°F
1:8	ms 9 and 10 to be comp	leted for tube	sections					
э.	Tube Sheets: Stationa	sry, Material		Oia	•	Thickness _	in, Attac	hment
	Floating	g. Material	(Kind & Sp	oc.No.) Dta	Subject to pressu	•) Thickness	in. Attac	(Welded, Bol
0.	Tubes: Material		0.0	in. Thic	kness	_ inches or gage, _ N	unber	
-		. — <u> </u>				1		(Str. or U
				· · ·				
Ite	ms 11 - 14 incl. to be	completed for				or channels of h	eat exchangers.	
1.	Shell: Material	T.S. 	Nominal Thickness Sourcefied)	Co in. A1	rrosion lowance	in. Dia ft	in. Leng	th ft
1.	Shell: Material	T.S .c. No. ) (Min, of Pang	Nominal Thickness Sourcefied) H.T.	Co in. A1	rrosion lowance	in. Dia ft	in. Leng Efficiency	th ft
1. 2.	Shell: Material	T.S	Nominal Thickness Souched) H.T. H.T.	Co in. A1	rrosion lowance R.T.	r in. Dia ft	in. Leng Efficiency No. of Cou	th ft
1. 2.	Shell: Material	T.S	Nominal Thickness Souched) H.T. H.T.	Co in. A1	rrosion lowance R.T.	r in. Dia ft	in. Leng Efficiency No. of Cou	th ft
1. 2. 3.	Shell: Material (Kond & Son Seams: Long Girth Heads: (a) Material Location Top.bottom,ends	T.S cc. No) (Min. of Peng   Crown (ness Radius	Kominal Thickness Soccied) H.T. H.T. Knuck le Radius	in. Al	R.T. R.T. R.T. (b) Ha Concial Apex Angle	r in. Dia ft	in. Leng Efficiency No. of Cou T.S. T.S.	th ft
1. 2. 3.	Shell: Material (Kond & Son Seams: Long Girth Heads: (a) Material Location Thick	T.S cc. No) (Min. of Peng   Crown (ness Radius	Kominal Thickness Soccied) H.T. H.T. Knuck le Radius	in. Al	R.T. R.T. R.T. (b) Ha Concial Apex Angle	in. Dia ft aterial Hemispherical	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter ( 	th ft rses de to Press. conv. or conc. )
1. 2. 3.	Shell: Material (Kond & Son Seams: Long Girth Heads: (a) Material Location Top.bottom,ends	T.S cc. No) (Min. of Peng   Crown (ness Radius	Kominal Thickness Soccied) H.T. H.T. Knuck le Radius	in. Al	R.T. R.T. R.T. (b) Ha Concial Apex Angle	in. Dia ft aterial Hemispherical Radius fastening	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter ( 	th ft rses de to Press. conv. or conc. )
1. 2. 3. (a)	Shell: Material (Kond & Sou Seams: Long Girth — Peads: (a) Material Location Thick Top.bottom.ends Channel If removable, bolts us	T.S kc. No. ) (Min. of Pang Crown cness Radius sed (a)	Kominal Thickness • Soccied) H. T. 1 H. T. 1 H. T. 1 Knuck le Radius  (b)	in. A1	rrosion lowance R.T. R.T. (b) Ha Concial Apex Angle  Other	in. Dia ft aterial Hemispherical Radius fastening Orop We Charpy	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter (  eight [mpact]	th ft rses de to Press. conv. or conc. ) stach statch ) ft-lb
1. 2. 3. (a) (b) 4.	Shell: Material (Kond & Son Seams: Long Girth Heads: (a) Material Location Top,bottom,ends Channel If removable, bolts us Design pressure	T.S kc. No. ) (Min. of Pang Crown cness Radius sed (a)	Kominal Thickness Soccied) H.T. H.T. Knuck le Radius (b)	in. Al	R.T. R.T. R.T. (b) Ha Concial Apex Angle	in. Dia ft aterial Hemispherical Radius fastening Orop We Charpy	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter (  eight [mpact]	th ft rses de to Press. conv. or conc. ) stach statch) ft-lb
1. 2. 3. (b) 4. [ter	Shell: Material (Kond & Son Seams: Long Girth Heads: (a) Material Location Thick Top.bottom.ends Channel If removable, bolts us Design pressure ms below to be completed	T.S. C.No.) (Min. of Parg Crown cness Radius ced (a)	Nominal Thickness Soccied) H.T. H.T. Knuckle Radius (b)	in. Al	rrosion lowance R.T. R.T. (b) Ma Concial Apex Angle  Other	in. Dia ft aterial Hemispherical Radius fastening Orop Wi Charpy F at tem	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter (  eight Impact p of	th ft rses de to Press. conv. or conc. ) stach statch ) ft-lb F
1. 2. 3. (b) 4. [ter	Shell: Material (Kond & Son Seams: Long Girth Heads: (a) Material Location Top,bottom,ends Channel If removable, bolts us Design pressure	T.S. C.No.) (Min. of Parg Crown cness Radius ced (a)	Nominal Thickness Soccied) H.T. H.T. Knuckle Radius (b)	in. Al	rrosion lowance R.T. R.T. (b) Ma Concial Apex Angle  Other	in. Dia ft aterial Hemispherical Radius fastening Orop Wi Charpy F at tem	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter (  eight Impact p of	th ft rses de to Press. conv. or conc. ) stach statch ) ft-lb F
1. 2. 3. (a) (b) 4. Iter 5.	Shell: Material (Kond & Son Seams: Long Girth Heads: (a) Material Location Thick Top.bottom.ends Channel If removable, bolts us Design pressure ms below to be completed	T.S. C.No.) (Min. of Parg Crown cness Radius ced (a)	Nominal Thickness Soccied) H.T. H.T. Knuckle Radius (b)	Co in. Al	rrosion lowance R.T. R.T. (b) Ma Concial Apex Angle  Other	in. Dia ft aterial Hemispherical Radius fastening Orop Wi Charpy F at tem	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter (  eight Impact p of	th ft rses de to Press. conv. or conc. ) stach statch ) ft-lb F
1. 2. 3. (a) (b) 4. Iter 5.	Shell: Material (Kond & Son Seams: Long Girth Heads: (a) Material Location Thick Top, bottom, ends Channel If removable, bolts us Design pressure ms below to be complete Safety Valve Outlets: Nozzles: Purpose(Wer,	T.S K. No. ) (Min. of Pang Crown cness Radius sed (a) sed for all vess Number	Kominal Thickness Soccied) H.T. H.T. Knuck le Radius (b)	Co in. Al	rrosion lowance R.T. R.T. (b) Ma Concial Apex Angle  Other	in. Dia ft aterial Hemispherical Radius fastening Orop Wi Charpy F at tem Location	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter ( Coscobe or eight [mpact o of Benforcement	th ft rses de to Press. conv. or conc. ) stach statch) ft-lb F
1. 2. 3. (a) (b) 4. [ter 5. 6.	Shell: Material (Kond & Son Seams: Long Girth Heads: (a) Material Location Thick Top.bottom.ends Channel if removable, bolts us Design pressure ms below to be complete Safety Valve Outlets: Nozzles: Purpose (Niet. Oxdet.Oram) Inspection Manholes,	T.S c. No. ) (Min. of Pang Crown cness Radius sed (a) id for all vess Number Number	Nominal Thickness • Specfied) H. T. H. T. Knuck le Radius (b) (b) sels where a Dia or Size	in. Al	rrosion lowance R.T. R.T. (b) Ma Concial Apex Angle Other Other	r in. Dia ft aterial Hemispherical Radius r fastening Orop Wi Charpy F at tem Location	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter ( Cescnes or eight Impact p of Reinforcement Maternal	th ft rses de to Press. conv. or conc. ) stach seetch) ft-lb F How Attached
1. 2. 3. (a) (b) 4. [ter 5. 6.	Shell: Material	T.S c. No. ) (Min. of Pang Crown cness Radius sed (a) id for all vess Number Number	Nominal Thickness • Specfied) H. T. H. T. Knuck le Radius (b) (b) sels where a Dia or Size	in. Al	rrosion lowance R.T. R.T. (b) Ma Concial Apex Angle Other Other	r in. Dia ft aterial Hemispherical Radius r fastening Orop Wi Charpy F at tem Location	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter ( Cescnes or eight Impact p of Reinforcement Maternal	th ft rses de to Press. conv. or conc. ) stach seetch) ft-lb F How Attached
1. 2. 3. (a) (b) 4. [Iter 5. 6. 7.	Shell: Material	T.S c.No.) (Min. of Pang Crown cness Radius sed (a) Number Number Number Number Number	Nominal Thickness • Specfied) H. T. H. T. Knuck le Radius (b) (b) Sels where Dia or Size	in. Al	rrosion lowance R.T. R.T. (b) Ma Concial Apex Angle  Other	r in. Dia ft in. Dia ft aterial Hemispherical Radius Fastening Orop Wi Charpy Fat tem Location Cocation C	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter (  impact p of Reinforcement Maternal	th ft rses de to Press. conv. or conc. ) mattech seetch) ft-lb F How Attached
1. 2. 3. (a) (b) 4. Iter 5.	Shell: Material	T.S c.No.) (Min. of Pang Crown cness Radius sed (a) Number Number Number Number Number	Nominal Thickness • Specfied) H. T. H. T. Knuck le Radius (b) (b) Sels where Dia or Size	in. Al	rrosion lowance R.T. R.T. (b) Ma Concial Apex Angle  Other	r in. Dia ft aterial Hemispherical Radius r fastening Orop Wi Charpy F at tem Location	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter (  impact p of Reinforcement Maternal	th ft rses de to Press. conv. or conc. ) mattach seetch) ft-lb F How Attached
1. 2. 3. (a) (b) 4. Iter 5. 6.	Shell: Material	T.S c. No.) (Min. of Pang Crown cness Radius sed (a) id for all vess Number Number Number Number Number Number Number Number Number Number Number	Kominal Thickness Soccied) H.T. H.T. Knuck le Radius (b) Sels where Dia or Size	in. Al	rrosion lowance R.T. R.T. (b) Ma Concial Apex Angle  Other	r in. Dia ft in. Dia ft aterial Hemispherical Radius Fastening Orop Wi Charpy Fat tem Location Cocation C	in. Leng Efficiency No. of Cou T.S. Flat Si Diameter (  impact p of Reinforcement Maternal	th ft rses de to Press. conv. or conc. ) mattech seetch) ft-lb F How Attached

. .... 2. 1. 2. 1. 5 3 -2-2-2:4572.562 FORM NIS-2 ATTACHMENT SHEET 27 OF 79 1:A . 1. WO#95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I 1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE). 2117 Castle Hayne Road. Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) DECATUR, AL_35609-2000 (b) Manufactured for : TVA ( Name and Address of H Certificate Holder for completed nuclear component ) _ Nat'l Bd. No. __<u>N/A</u> 2. Identification - Certificate Holder's S/N of Part : _A4743_ (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson (b) Description of Part Inspected: <u>Control Rod Drive</u>. Model # 7RDB144FG005 (c) Applicable ASME Code: Section III. Edition <u>1974</u>, Addenda Date <u>W75</u>, Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REHARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 16689274P001 SA182 - F316 3/8" thick x 1 1/16" OD 2. Indicator Tube 166B9313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113* wall thickness 1.065° max. dia. 1 Resotor 3. Plug 159A1176P001 Vessel SA182 - F304 Code Held Thimble 1/4" thick x 0.812" OD P501P102 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD Į 5. Base 137C5311P001 SA182 - F304 з 7/8" thick x 2.875" dia. Code Neld 6. Ring Flange 114B5122P002, P003 P507P102 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID 8 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2º dia. on 4 1/8º bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38° thick x 1.307° dia. Code Neld P50YP102 6 Rolled before weld 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia. Page 140 of 218



• •

. ,

r

•

			RM NIS-2 ATTACH VEET 28 OF 79
	6022.3149		# 95-022229-00
ORM N-2 NPT CERTIFICATE As required by the	HOLDERS'DATA REPORT Provision of the ASME	FOR NUCLEAR PART ANI Code Rules, Section	DAPPURTENANCES* III, Div. I
Anufactured & Certified by : <u>Ger</u>	neral Electric Company Nucle	ar Fuel & Components Mar	nufacturing (GENF&CM)
	17 Castle Hayne Road, Wilmi ( Name and Address of NPI	Certificate Holder >	
(b) Manufactured for : <u>TVA</u> ( Name	Chattanooga, Tennesse and Address of # Certificate	0 37402-2127 Bolder for completed nuclea	r component )
Identification - Certificate Holder	r's S/H of Part': <u></u>	Nat'l Bd. No	N/A
(a) Constructed According to Draw	ing No: <u>768E534G008 Rev</u>	9 Dwg. Prepared by <u>D.L.</u>	Peterson
(b) Description of Part Inspected	:Control Rod Drive . Mode	I # 7RDB144FG005	
(c) Applicable ASHE Code: Section	n III . Edition <u>1974</u> . Add	enda Date <u>W75</u> , Case No.	N207 1361-2 Class 1
REMARKS: <u>Standard part for use wi</u> ( Brief descript)	ith <u>Feactor. Hydrostatically te</u> ion of service for which compo	<u>stod at 1825 psi. min.</u> nent was designed )	-
		ý	Sheet 1 of 2
We certify that the statements in the conforms to the rules of construction Report are not the responsibility of is responsible for furnishing a sep- the component Design Specification of	on of the ASME Code Section II f the MPT Certificate Holder f arate Design Specification and	<ol> <li>( The applicable Designe or parts. An NPT Certificat</li> </ol>	d Specification and Stress ion Holder for appurtenances
Date: 07/29/92 51	igned <u>GE-NEBG-NF&amp;CM-</u> ( MFT Cortificate Bold	OA By	epresentive )
Certificate of Authorization Expire	s: <u>6/16/93</u> Certification o	Author Watton No. : _NP	<u>TN-1151</u>
	lection of Design		
Design information on file at	4		<u></u>
Stress analysis report on file at	<u>GE Company . San Jose .</u>	California	<u></u>
DC22A6253 Rev. 1 Design specification certified by	Biorn Haaberg Prof. Eng	. State <u>Calif.</u> Reg. No	15570
OC22A6254 Rev 1 Stress analysis report certified b	y <u>Edward Yoshlo</u> Prof. E	ng. State <u>Calif.</u> Reg. No.	<u>M018646</u>
, C(	ertification of Sh	op Inspection	<u></u>
I, the undersigned, ho ¹ ng a vali State or Province of <u>1</u> , ' <u>n Caroll</u> inspected the part of a , assure v and state that to the best of my k accordance with the ASME Code Sect	<u>na</u> and employed by <u>Departm</u> essel described in this Partia nowledge and belief, the NPT ( ion III.	I Data Report on <u>State or</u> I Data Report on <u></u> ertificate Holder has const	NOTIN CATOLINA, have 2/14, 292, cructed this part in
By signing this certificate, neit concerning the part described in t shall be liable in any manner for connected with this inspection.	her the Inspector nor his emp he Partial Data Report. Furth	ermore, neither the Inspect	tor nor his employer
	Inspector's Signature	NC 1231, Ohio, WC National Board, State,	3686 PA . Frovince And No.
Supplemental sheets in provided (1) size is a Report is included on number of sheets is re			ng may be used -2 on this Data numbered and (17/14)
•	Page 141 of 2		

					DRM, N-2	I DECK )				
							aballa of book -	vehacest		
07.1	4-8 Inc	1. to be comple	eted for sing				shells of heat e	xcnangers.		
. \$	hell: K	lateria] (Kind & Spec.	T.S. No.) (Min. of Reng	e Specified }	In. All		n, Dia ft.	•		•
5. 5	ieans: L	.ong		н.т.	ş	R.T		_ Efficie	ncy	X
	-			н.т.		• R.T		_ Ko. of (	Courses	
<b>5.</b> 1	ieads: (	(a) Heteriej <u>-</u>				-	terial			· · ·
(4)	ocation Sottom, E	Ends) Thickn	ess Radius	Knuckle Radius	Elliptical Ratio	Apex Angle		Dianeter	( CONV. OF	ess. conc. 1
(b)	f remova	able, bolts use	d	. Scec. No. T.S.		Other faster	ning(O	excribe of attach a	heich }	
7.	Ja:ket [*] Ci	losure:	•	••••	•		f balls, describe or shelch			
		-					Drop Ve Charpy	Impact		ft-1b
					1 at	575	F_atten;	o of		F
		10 to be comple								
9.	Tube She	ets: Stational Floating	ry. Haterial , Haterial	(Kind & S;	Dia Dia Dia	(Bubject to pressu	Thickness Thickness	in. At in. At	tachment	Weided, Boked }
0.	Tubes:	Material		0.0	in. Thic	kness	_ inches or gage. No	mber	Type	(Str. or U)
Iter	= 11 - 1	4 incl. to be	completed for	inner chas	bers of jacks	ted vessels,	or channels of h	eat exchange	Brs.	
		Haterial		Nominal Thickness ge Specfied)	Co in. A1	rrosion lowance	in. Dia ft	in. l	Length	
.1.	Shell:	Haterial	T.S. No.) (Min. of Per	Kominal Thickness ge Specified) H.T.	5 in. A1	rrosion lowance R.T.	in. Dia ft	in. l Efficio	Length	x
11.	Shell: Suoms:	Material (Xind & Som Long Girth	T.S	Nominal Thickness ge Specfied) H.T. H.T.	Co in. A1	rrosion lowance R.T. R.T.	In. Dia ft	in. l Efficie No. of	Length ancy Courses	×
11.	Shell: Suoms:	Material (Xind & Som Long Girth	T.S	Nominal Thickness ge Specfied) H.T. H.T.	Co in. A1	rrosion lowance R.T. R.T.	in. Dia ft	in. l Efficie No. of	Length ancy Courses	×
11. 12. 13.	Shell: Suoms: Heads: Locat	Katerial (Xond & Boom Long Girth (a) Material	T.S	Kominal Thickness ge Speched) H.T. H.T. Knuckle	T.S	rrosion lowance R.T. R.T. (b) H Concial	In. Dia ft	in. l Efficie No. of T Flat	Length ancy Courses .S	X
(a)	Shell: Suoms: Heads: Locat Top,bott	Katerial (Xind & Som Long Girth (a) Haterial _ tion Thick tom, ends	T.S : No.) (Min. of Rer   riess Radiu:	Kominal Thickness go Spechod) H.T. H.T. H.T. Knuckles Radius	T.S Ratio	rrosion lowance R.T. R.T. (b) M Concial Apex Angle	in. Dia ft 	in. I Efficie No. of T Flat Diameter 	Length Courses .S Side to Pr ( conv. or	X
11. 12. 13.	Shell: Suoms: Heads: Locat Top,bott	Katerial (Xind & Som Long Girth (a) Haterial _ tion Thick tom, ends	T.S : No.) (Min. of Rer   riess Radiu:	Kominal Thickness go Spechod) H.T. H.T. H.T. Knuckles Radius	T.S Ratio	rrosion lowance R.T. R.T. (b) M Concial Apex Angle	in. Dia ft	in. I Efficie No. of T Flat Diameter 	Length Courses .S Side to Pr ( conv. or 	X
1. 12. 13. (a) (b)	Shell: Suoma: Heads: Locat Top,bott Channel If remov	Katerial (Xond & Book Long Girth (a) Material tion Thick tom, ends vable, bolts us	T.S : No.) (Min. of Rer   riess Radiu:	Kominal Thickness go Spechod) H.T. H.T. H.T. Knuckles Radius	T.S Elliptical Ratio (c)	rrosion lowance R.T. R.T. (b) M Concial Apex Angle	in. Dia ft [aterial Henispherical Radius er fastening Drop b Charpy	in. I Efficio No. of T Flat Diamoter  Height / Impact	Length Courses .S Side to Pr ( conv. or 	X
1. 12. 13. (a) (b)	Shell: Suoma: Heads: Locat Top,bott Channel If remov Design p	Katerial (Xind&Spec Long Girth (a) Haterial tion Thick tom,ends vable, bolts us pressure		Kominal Thickness ge Specfied) H.T. H.T. Knuck le s Radius (b)	T.S Elliptical Ratio (c) pst at	rrosion lowance R.T. R.T. (b) M Concial Apex Angle  Othe	in. Dia ft [aterial Henispherical Radius er fastening Drop b Charpy	in. I Efficio No. of T Flat Diamoter  Height / Impact	Length Courses .S Side to Pr ( conv. or 	X ress. r conc. ) ch) ft-lb
11. 12. 13. (a) (b) 14. Ite	Shell: Suoma: Heads: Locat Top,bott Channel If remov Design p ms below	Material (Xond & Soon Long Girth (a) Material tion Thick tom, ends vable, bolts us pressure to be comple	T.S 	Nominal Thickness go Spechod) H.T. H.T. Knuckles Radius (b) ssels where	I.S Elliptical Ratio (c) paf at applicable.	rrosion lowance R.T. R.T. (b) M Concial Apex Angle Othe	in. Dia ft [aterial Henispherical Radius er fastening Drop b Charpy	in. I Efficio No. of T Flat Diameter  (Deec r impact p of	Length Courses .S Side to Pr ( conv. or 	X ress. r conc. ) ch) ft-lb
1. 12. 13. (a) (b) 14. 11. 15.	Shell: Suoma: Heads: Locat Top,bott Channel If remov Design p ms below Safety N	Katerial (Xndă Sont Long Girth (a) Material tion Thick tom, ends vable, bolts us pressure to be comple Yalve Outlets:	T.S 	Nominal Thickness go Spechod) H.T. H.T. Knuckles Radius (b) ssels where	I.S Elliptical Ratio (c) paf at applicable.	rrosion lowance R.T. R.T. (b) M Concial Apex Angle Othe	in. Dia ft [aterial Henispherical Radius er fastening Drop to Charpy F at tem	in. I Efficio No. of T Flat Diameter  (Deec r impact p of	Length Ency Courses S Side to Pr ( conv. or  rbe or attach shat	X ress. r conc. ) ch) ft-1b
11. 12. 13. (a) (b) 14. Ite 15.	Shell: Suoma: Heads: Locat Top,bott Channel If remov Design p ms below Safety N	Material (Xond & Soon Long Girth (a) Material tion Thick tom, ends vable, bolts us pressure to be comple	T.S 	Nominal Thickness go Spechod) H.T. H.T. Knuckles Radius (b) ssels where	T.S Elliptical Ratio (c) applicable. Size	rrosion lowance R.T. R.T. (b) H Concial Apex Angle  Othe	in. Dia ft	in. I Efficie No. of T Flat Diameter  (Deeo reight r impact mp of	Length Courses .S Side to Pr ( conv. or  rbe or atlach shart	X ress. r conc. ) ch) ft-lb
1. 2. (a) (b) 14. 1te	Shell: Suoma: Heads: Locat Top,bott Channel If remov Design p ms below Safety N	Katerial (Xind & Spec Long Girth (a) Haterial tion Thick tom, ends vable, bolts us pressure to be comple Valve Outlets: :: Puppon (MM,		Nominal Thickness go Spechod) H.T. H.T. Knuck less Radius (b) Ssels where De or Siz	I.S T.S Elliptical Ratio (c) pat at applicable. Size Type	rrosion lowance R.T. R.T. (b) M Concisi Apex Angle  Othe	In. Dia ft	in. I Efficie No. of T Flat Diameter  (Deec r impact impact fon Network Meterial	Length Ency Courses S Side to Pr ( conv. or  ribe or attach state ribe or attach state  ement Ho	X ress. r conc. ) ch)ft-1bF
(a) (b) 14. 15. 16.	Shell: Suoma: Heads: Locat Top,bott Channel If remov Design p ms below Safety N Nozzles	Katerial (Xind & Spec Long Girth (a) Haterial tion Thick tom, ends vable, bolts us pressure to be comple Valve Outlets: :: Puppon (MM,		Nominal Thickness go Spechod) H.T. H.T. Knuck less Radius (b) Ssels where De or Siz	Image: second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	rrosion lowance R.T. R.T. (b) M Concisi Apex Angle  Othe	In. Dia ft	in. I Efficie No. of T Flat Diameter (Deece r impact np of Network Material	Length Ency Courses S Side to Pr ( conv. or  ribe or atlach shart ment Ho  ement Ho	X

Page 142 of 218

۶.

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

Form NIS-2 Attachment Sheet 29 of 79

WO # 95-022229-001

••	2117 Cast	lectric Company Nuclear Fuel & Components Manufactu tle Hayne Road, Wilmington, North Carolina 28401 Name and Address of MPT Certificate Holder )	<u></u>
	(b) Hanufactured for : TVA	Chattanooga, Tennessee 37402-2127	
		dress of M Certificate Holder for completed nuclear compo	Dent )
		of Part : Nat'l Bd. No NA	
			<u> </u>
	-	ontrol Rod Drive , Model # 7RDB144FG005	1001 0 01 1
	•	Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207</u>	<u>1301-2</u> Class
3.	REMARKS: <u>Standard part for use with Ream</u> ( Brief description of a	<u>ctor. Hydrostatically tested at 1825 psi. min.</u> service for which component was designed )	• •
			Sheet 2 of 2
	1. Cap 166B9274P001 SA182 - F304		-
	3/8° thick x 1 1/16° OD		
	2. Indicator Tube 16689311P001		
	SA312 - TP316 3/4" sch 40 - sezmiess pipe		•
	0.113° wall thickness	·	
	1.065° max. dia.	Reactor	. 1
	3. Plug 159A1176P001	Vasso?	
	SA182 - F304	. Thimble	Code A
	1/4° thick x 0.812° OD		The
	4. Flange 919D610P001 (719E474)		
	SA182 - F304		
	3.37° thick x 9 5/8° OD		
	5. Base 137C5311P001		
	SA182 - F304	3	
	7/8° thick x 2.875° di <b>a.</b>		
	6. Ring Flange 114B5122P002, P003	Code Held	
	137C8151P001, P002	P50YP102	
	SA 182 - F304 1* thick x 5.0° (	· · · · · · · · · · · · · · · · · · ·	<i>S.//////</i> /
		° ///////////	
	7. Cap Screw 117C4516P002	5	
	SA193 - B6 6 ez. 1/2° diz. on 4 1/8° bolt circle		
	8. Plug 175A7961P001		
	SA182 - F304	. Code Nold	
	0.38° thick x 1.307° dia.	PSOYP102 6	₩ <b>~</b> 7
	9. Nut 137C5934P001	Rolled before wold	ר ∖ שיי
	XM - 19 SA479		
	1.30° thick x 2.62° dia.		

Page 143 of 218

.

• •

. 

. .

	•			FORM NIS-2 , SHEET 30 OF 1	ATTACHME 10
٧		522.52	34	WD# 95-0222	229-001
FORM N	N-2 NPT CERTIFIC	ATE HOLDERS' DATA RE the Provision of the	PORT FOR NUCL ASHE Code Ru	EAR PART AND APPURTE	NANCES*
1. Manufactu	d & Certified by :	General Electric Company	v Nuclear Fuel & C	Components Manufacturing	( GE NF & CM
<u>۱</u>	·	2117 Castle Havne Road		rth Carolina 28401	
(b) Kanuf	actured for : <u>TVA</u>	•	· ·	127 completed nuclear component	
	-	Name and Address of W'Cert Holder's S/N of Part :			<b>)</b>
				repared by <u>D. L. Peterson</u>	
•		ected: Rod Drive			
.(c) App11	Icable ASKE Code: 5	ection III , Edition <u>1974</u>	Addenda Date	<u>W75</u> , Case No. <u>N207 136</u>	<u>1-2</u> Class <u>1</u>
3. REMARKS: _	Standard part for ( BE1+£ dea	<u>ise with Reactor. Hydrosta</u> cription of service for whi	<u>tically tested at 18</u> ch component was d	<u>25 psl. min.</u> ssigned )	
\$		<u></u>			Sheet 1 of 2
is responsi the compone Date: <u>09/</u>	ible for furnishing ant Design Specifica 10/92	a separate Design Specifica Ltion and Stress Report ). Signed <u>GE - NEBG - N/</u> ( MPT Cartifie	tion and Stress Rep F&CM-OA ato Bolder )	An NPT Certification Holder for port if the appurtenance is a SC OF X-presentive Ition No. : <u>NPTN - 1151</u>	rot included in
<b></b>	Cer	tification of Des	ign for App	urtenance	
Design ini		GE Company . Sar	•		
Stress and	alysis report on fi	le atGE Company . Sai	n Jose , California	· · · · · · · · · · · · · · · · · · ·	٢
OC22A6253 Design spe	Rev. 1 scification certifie	nd by <u>Biorn Haaberg</u> P	rof. Eng. State <u>C</u>	<u>all.</u> Reg. No. <u>15570</u>	
DC22A6254 Stress and	Rev 1 alysis report certi	fied by <u>Edward Yoshio</u>	Prof. Eng. State	<u>Call.</u> Reg. No. <u>M018646</u>	•
[·········		Certification of	of Shop Ins	pection	
State or i inspected and state accordanc By signin concernin shall be	Province of the part of a pres that to the best o e with the ASHE Cod g this certificate, g the part describe liable in any manne with this inspecti	<u>Carolina</u> and employed by sure vessel described in thi f my knowledge and belief, t e Section III. neither the Inspector nor d in the Partial Data Report r for any personal injury or on.	Departial Data Rep he NPT Certificate his employer makes . Furthermore, no property damages	iler and Pressure Inspectors or of <u>Stale of North Caro</u> , ort on <u>222</u> , Holder has constructed this any warranty, expressed or ither the Inspector nor his or a loss of any kind arisin 21231, Ohlo, WC 3686 PA	part in implied,
Dat		Inspector's Signature		mal Board, State, Province A	<u></u>
*Supplem provide Report number	ental sheet d (1) size is included of sheets i	s in form of list is 8-1/2" x 11", on each sheet, a s recorded in Ite	s, sketches (2) informa ind (3) each ind 3. "REMAN	s or drawing may l ation in 1-2 on th i sheet is number RKS".	be used his Data ed and (17/14)

Page 144 of 218

6022.5235

.

Items 4-8 Incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchangers.	
4. Shell: MaterialT.SThicknessin. Allowancein. Diaftin. Lengthft.	, <u> </u>
5. Seams: Long H.T R.T Efficiency	?
6irth H.T R.T Xo. of Courses	
6. Heads: (a) Haterial T.S (b) Haterial T.S	
Location ( Top Crown Knuckle Elliptical Concial Hemispherical Flat Side to Press Bottom, Ends ) Thickness Radius Radius Ratio Apex Angle Radius Diameter ( conv. or co (a)	
If removable, bolts used Other fastening (Describe or stack sherch)	
7. Jacket Closure:	
0rop Weight Charpy Impact 8. Design pressure F at temp of	ft-1b F
Items 9 and 10 to be completed for tube sections	
9. Tube Sheets: Stationary, Material Dia, Thickness in, Attachment	<u> </u>
	ded, Boked )
10. Tubes: Material 0.0 in. Thickness inchesergege. Mumber Type'	
Items 11 - 14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.	
Nominal         Corrosion           11. Shell: MaterialT.SThicknessin. Allowancein. Diaftin. Lengthft.           (Kond & Spec. No.) (Mon. of Parge Specified)	1n.
12. Seams: Long H.T R.T Efficiency	×
Girth H.T R.T No. of Courses	
13. Heads: (a) Haterial T.S (b) Haterial T.S	
Crown Knuckle Elliptical Concial Hemispherical Flat Side to Press Location Thickness Radius Radius Ratio Apex Angle Radius Diameter (conv. or co (a) Top,bottom,ends	
If removable, bolts used (a)(b)(C)Other fastening(Describe or atlach shetch)	
Drop Weight Charpy Impact	
14. Design pressure psi at Psi at	• F
Items below to be complete all vessels where applicable.	<del>د</del>
15. Safety Valve Outlets: Number Size Location	
16. NO22185: Purpees (Mel, Peinforcement Outer, Orain ) Humber Die, er Stoe Type Material Thicknese Malerial How Aru	• ached
17. Inspection Manholes, No. Size Location	
18. Supports: Skirt Lugs Legs Other Attached (Write & (Write & (Write & (Write & )))	How)
1 - If Postwold Head-Treated. 2 - List other internal ar enternal pressure with coincident temperature when applicable.	

Page 145 of 218

FORM N-2 ( back )

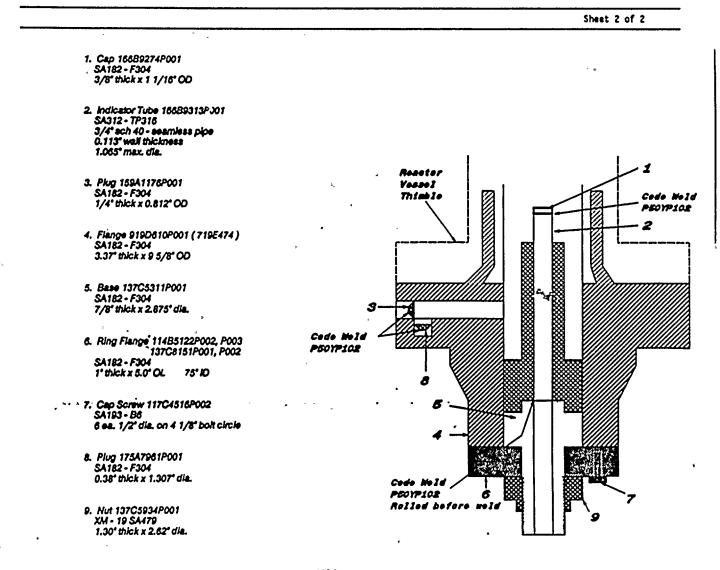
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I

FORM NIS-2 ATTACHMENT

WO# 95-022229-001

SHEET 31 OF 79

1. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM) _2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of NFT Certificate Bolder ) (b) Manufactured for : _______ Chattanooga, Tennessee 37402-2127 ( Name and Address of N Certificate Holder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : _A5425_ __ Nat'i Bd. No. ___N/A (a) Constructed According to Drawing No: _768E534G008_Rev_9_Dwg. Prepared by D.L. Peterson_ (b) Description of Part Inspected: <u>Control Rod Drive</u>, Model # 7RDB144FG005 (c) Applicable ASHE Code: Section III , Edition 1974, Addenda Date <u>W75</u>, Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed )



Page 146 of 218

۰ ۰ ۰ ۰

• ; •

1,

FORM NITS-2 ATTACHMENT SHEET 32 OF 79 WO# 95-022229-001 E985, 5509 FORM N. NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* Aprequired by the Provision of the ASHE Code Rules, Section III, Div. I Stured & Centified by : <u>General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)</u> Manut 2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) A Chattanooga, Tennessee 37402-2127 ( Hame and Address of N Certificate Bolder for completed nuclear component ) Manufactured for : TVA _ Nat'l Bd. No. __<u>N/A</u>_ Identification - Certificate Holder's S/N of Part : <u>A4183</u> (a) Constructed According to Drawing No: _768E534G008_Rev_9_Dwg. Prepared by D. L. Paterson_ (b) Description of Part Inspected: <u>Control Rod Drive</u>, Model # 7RDB144FG005 (c) Applicable ASHE Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class 1 3. REWARS: _Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASHE Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). 12. for the Signed GE - NEBG - NF & CM - QA By ____ Date: 07/29/92 C QA Kepresentive ( MPT Certificate Holder ) Certificate of Authorization Expires: 6/18/93 Certification of Authorization Ho. : NPT.N - 1151 Certification of Design for Appurtenance GE Company, San Jose, California Design information on file at ____ Stress analysis report on file at _____GE Company, San Jose, California DC22A6253 Rev. 1 Design specification certified by Blorn Haaberg Prof. Eng. State Calif. Reg. No. 15570 OC22A6254 Rev 1 Stress analysis report certified by Edward Yoshio Prof. Eng. State Calif. Reg. No. MO18646 Certification of Shop Inspection I, the undersigned, haiding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of '<u>Orth Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have inspected the part o. <u>Dessure vessel</u> described in this Partial Data Report on <u>State of North Carolina</u> have and state that to the pest of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. 7/29.1992 Aurone Port NC 1231. Ohio. WC 3686 PA National Board, State, Province And No. Date *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". Page 147 of 218

5022.2864

. •

	as 4-8 Incl. to be completed for sir	gle wall vessels, jacket:	s vessels, or shells of heat	exchangers.
١.	Shell: Haterial T.S T.S	_ Thickness in. Al' ge Specified }	rrosion lowance in. Dia ft	in. Length ft !
5.	Seams: Long		R.T	Efficiency
	Girth	я.т. 1	· R.T	No. of Courses
6.	Heads:- (a) Haterial		(b) Haterial	, T.S
(#)	Location ( Top Crown Bottom, Ends ) Thickness Radius	Knuckle Elliptical Radius Ratio	Concial Hemispherical Apex Angle Radius	Flat Side to Press. Diameter ( conv. or conc. )
(b)	If removable, bolts used	· · · · · · · · · · · · · · · · · · ·	Other fastening	······································
7.	Jacket Closure:	al, Spec. Ho., T.S. Size Humber)	3)	vecribe or attach shetch }
	(0	secribe as oges and weld, bar, etc. If b	er give dimensions, il bolls, describe or shutd	n) eicht -
	2			ight ft-1b
8.	Design pressure1250	psi at	<u>575</u> F at tem	p of F
	as 9 and 10 to be completed for tube			
9.	Tube Sheets: Stationary, Materia Floating, Materia	(Kind & Spec. No.) Dia.	(Subject to pressure) (Thickness Thickness	in. Attachment (Welded, Boled
.0.	Tubes: Material	0.0 1n. Thick	cness inches or gage. N	mber Type(Sec.orU)
Iter	s 11 - 14 incl. to be completed for	inner chambers of jacket	ted vessels, or channels of h	eat exchangers.
1.	Shell: Haterial T.S (Knd & Spec. No.) (Min. of Per	_ Thickness in. Al'	rosion lowance in. Dia ft	in. Length ft i
2.	Seams: Long	н.т.	R.T	X
	Girth	н.т.'	R.T	No. of Courses
3.	Heads: (a) Material	T.S	(b) Haterial	T.S
(*)	Top,bottom,ends	Radius Ratio	Apex Angle Radius	
(0)	Channel If removable, bolts used (a)	(b)(c)	Other fastening	
			Drop V	(Describe or attach sketch) a fight
	2		•	Impact ft-lb
		psi at	F at tem	p of F
	as below to be completed fc sll ver	isels where applicable.		
15.	Safety Valve Outlets: Number	Size .	Locati	on
6.	Nazz 185: Purpose (Iniet, Outlet, Dnain) Humber	Dia. or Size Type	Material Thickness	Reinforcement Material How Attached
• •				
17.	Inspection Manholes, No Openings: Handholes, No Threaded, No		Location Location Location	
		Legs	Other	Attached
18.	(Yes or Na)	(Number) (	Number) (Describe)	{Where & How }

Page 148 of 218

	FORM NIS-2 ATTACHME SHEET 33 OF 79 WO # 95-02229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I
1.	Nanufactured & Certified by : <u>General Electric Company Nuclear Fuel &amp; Components Manufacturing (GENF &amp; CM</u>
	( Name and Address of MPT Certificate Holder ) (b) Manufactured for : <u>TVA</u> <u>Chattanooga Tennessee</u> 37402-2127
	(b) Manufactured for : <u>TVA Chattanooga. Tennessee 37402-2127</u> ( Mame and Address of M Certificate Holder for completed nuclear component )
2.	Identification - Certificate Holder's S/N of Part : <u>A4183</u> Nat'l Bd. No. <u>N/A</u>
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.Peterson</u>
	(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
	(c) Applicable ASHE Code: Section III , Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3.	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brist description of service for which component was designed )
	( brive description of service for which component was designed )
	Sheet 2 of 2
-	
	1. Cap 166B9274P001 SA182 - F304 3/8" thick x 1 1/16" OD
	2. Indicator Tube 16689313P0:1 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.065" max. dia.
	3. Plug 159A1176P001 SA182 - F304 1/4" thick x 0.812" OD
	4. Flange 9190610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD
	5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia.
	6. Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304
	1° thick x 5.0° OD x 1.75
	7. Cap Screw 117C4516P002 5
	6 ez. 1/2" diz. on 4 1/8" bolt circle
	8. Plug 175A7961P001
	SA182 - F304 0.38° thick x 1.307° dia. P50YP102 6
	9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.

.

Page.

. . .

		FORM NITS-2 ATTACHMENT SHEET 34 OF 79
		WD # 95-022229-001
	6022.5212	
FORM N-2 MPT CERT	FICATE HOLDERS' DATA REPORT F by the Provision of the ASHE	OR NUCLEAR PART AND APPURTENANCES* Code Rules, Section III, Div. I
Kanufestured & Certified	by : General Electric Company Nuclea	r Fuel & Components Manufacturing ( GE NF & Ch
	2117 Castle Havne Road, Wilmin ( Neme and Address of NPT	
b) Hanufactured for : _	TVA Chattanooga, Tennesse	9 37402-2127 Welder for completed nuclear component )
	ate Holder's S/N of Part :	
	g to Drawing No: <u>768E534G008 Rev</u>	
	Inspected: Control Rod Drive . Model	
(c) Applicable ASME Code	: Section III , Edition <u>1974</u> , Adde	nda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
	or use with Reactor. Hydrostatically tes description of service for which component	
	• • • • • • • • • • • • • • • • • • • •	Sheet 1 of 2
	fication and Stress Report ).	OA AV
Date: <u>09/10/92</u>	Signed <u>GE-NEBG-NF&amp;CM-</u> ( HFT Certificate Bolds	
Date: <u>09/10/92</u> Certificate of Authorizati	Signed <u>GE-NEBG-NF &amp; CM-</u> ( HPT Certificate Bolds on Expires: <u>8/18/93</u> Certification of	Authorization No. : NPTN-1151
Date: <u>09/10/92</u> Certificate of Authorizati	Signed <u>GE-NEBG-NF&amp;CM-</u> ( HPT Certificate Bolds on Expires: <u>8/18/93</u> Certification of Certification of Design f	Authorization No. : <u>NPTN-1151</u> or Appurtenance
Date: <u>09/10/92</u> Certificate of Authorizati C Design information on fil	Signed <u>GE-NEBG-NF&amp;CM-</u> ( HFT Certificate Bolds on Expires: <u>8/18/93</u> Certification of Certification of Design f est <u>GE Company, San Jose</u> .	Authoristion No. : <u>NPTN-1151</u> For Appurtenance California
Date: <u>09/10/92</u> Certificate of Authorizati C Design information on fill Stress analysis report or	Signed <u>GE-NEBG-NF&amp;CM-</u> ( HPT Certificate Bolds on Expires: <u>8/18/93</u> Certification of Certification of Design f	Authoristion No. : <u>NPTN-1151</u> For Appurtenance California
Date: <u>09/10/92</u> Certificate of Authorizati C Design information on fil Stress analysis report or DC2246253 Ray, 1	Signed <u>GE-NEBG-NF&amp;CM-</u> ( HFT Certificate Bolds on Expires: <u>8/18/93</u> Certification of Certification of Design f est <u>GE Company, San Jose</u> .	Authorization No. : <u>NPTN-1151</u> Cor Appurtenance Callfornia Callfornia
Date: <u>09/10/92</u> Certificate of Authorizati C Design information on fill Stress analysis report or DC22A6253 Rev. 1 Design specification cert DC22A6254 Rev. 1	Signed <u>GE-NEBG-NF&amp;CM-</u> (EPT Certificate Bolds on Expires: <u>6/16/93</u> Certification of Certification of Design f e at <u>GE Company, San Jose</u> of file at <u>GE Company, San Jose</u> stified by <u>Blorn Haaberg</u> Prof. Eng.	Authorization No. : <u>NPTN-1151</u> For Appurtenance California California . State <u>Calif.</u> Reg. No. <u>15570</u>
Date: <u>09/10/92</u> Certificate of Authorizati C Design information on fill Stress analysis report or DC22A6253 Rev. 1 Design specification cert DC22A6254 Rev. 1	Signed <u>GE-NEBG-NF&amp;CM-</u> (EFT Certificate Bolds on Expires: <u>8/18/93</u> Certification of Certification of Design f e at <u>GE Company, San Jose</u> , offile at <u>GE Company, San Jose</u> ,	Authorization No. : <u>NPTN-1151</u> For Appurtenance California California . State <u>Calif.</u> Reg. No. <u>15570</u>
Date: <u>09/10/92</u> Certificate of Authorizati C Design information on fil Stress analysis report or DC22A6253 Rev. 1 Design specification cert DC22A6254 Rev 1 Stress analysis report ce	Signed <u>GE-NEBG-NF&amp; CM-</u> (EFT Certification of ertification of Design f ertification of Design f de at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> . (1) at <u>GE Company. San Jose</u> .	Authoristion No. : <u>NPTN-1151</u> For Appurtenance California California State <u>Calif.</u> Reg. No. <u>15570</u> Ng. State <u>Calif.</u> Reg. No. <u>M018646</u> Op Inspection
Date: 09/10/92 Certificate of Authorizati Certificate of Authorizati C Design information on fil Stress analysis report or DC22A6253 Rev. 1 Design specification cert DC22A6254 Rev 1 Stress analysis report co I, the undersigned, 1d State or Province of 2 inspected the part of a 1 and state that to the ba	Signed <u>GE-NEBG-NF&amp; CM-</u> (EPT Certificate Bolds on Expires: <u>6/16/93</u> Certification of Certification of Design f de at <u>GE Company, San Jose</u> of file at <u>GE Company</u> , San Jose of Certification of Bho Certification of Bho ing a valid commission by the Mational Bo of a valid commission by the Mational Bo of a valid commission by the Mational Bo of the Section of this Partia at of my knowledge and belief, the MPT C	Authoristion No. : <u>NPTN-1151</u> <b>For Appurtenance</b> <u>California</u> <u>California</u> . State <u>Calif.</u> Reg. No. <u>15570</u> Ng. State <u>Calif.</u> Reg. No. <u>M018646</u>
Date: 09/10/92 Certificate of Authorizati Certificate of Authorizati Contemporation on fill Stress analysis report or DC22A6253 Rev. 1 Design specification cert DC22A6254 Rev 1 Stress analysis report cert DC22A6254 Rev 1 Stress analysis report cert Stress analysis report cert Stress analysis report cert and state that to the best accordance with the ASME By signing this certific concerning the part desc shall be liable in any miconnected with this inspected with the inspected with this inspected with this inspected with this inspected with this inspected with this inspected with this inspected with this inspected with this inspected with this inspected with this inspected with the inspected with this inspected with the inspected with this inspected with this inspected with this inspected with the inspected with this inspected with this inspected with this inspected with the inspected with the inspected with this inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected with the inspected w	Signed <u>GE-NEBG-NF&amp;CM-</u> ( HTT Certificate Bolds on Expires: <u>6/16/93</u> Certification of Certification of Design f e at <u>GE Company</u> , San Jose, if file at <u>GE</u>	Authoristion No. : <u>NPTN-1151</u> Or Appurtenance <u>Callfornia</u> <u>Callfornia</u> <u>Callfornia</u> State <u>Callf.</u> Reg. No. <u>15570</u> Ng. State <u>Callf.</u> Reg. No. <u>M018646</u> Dp Inspection card of Boiler and Pressure Inspectors and/or the <u>ent of Labor</u> of <u>State of North Carolina</u> have 1 Data Report on <u>7/28</u> . <u>1792</u> , ertificate Holder has constructed this part in cover makes any warranty, expressed or implied, smore, neither the Inspector nor his employer y damages or a loss of any kind arising from or
Date: <u>09/10/92</u> Certificate of Authorizati Certificate of Authorizati Consign information on fill Stress analysis report or DC22A6253 Rev. 1 Design specification cert DC22A6254 Rev 1 Stress analysis report cert DC22A6254 Rev 1 Stress analysis report cert CC22A6254 Rev 1 Stress analysis report cert DC22A6254 Rev 1 Stress analysis report cert Stress analysis report cert inspected the part of a 1 and state that to the best accordance with the ASME By signing this certific concerning the part desc shall be liable in any m connected with this inspected	Signed <u>GE-NEBG-NF&amp;CM-</u> ( HTT Certificate Bolds on Expires: <u>6/16/93</u> Certification of Certification of Design f e at <u>GE Company</u> , San Jose, if file at <u>GE</u>	Authoristion No. : <u>NPTN-1151</u> Or Appurtenance Callfornia <u>Callfornia</u> . State <u>Callf.</u> Reg. No. <u>15570</u> Ng. State <u>Callf.</u> Reg. No. <u>M018646</u> Dp Inspection Deard of Boiler and Pressure Inspectors and/or the <u>ent of Labor</u> of <u>State of North Carolina</u> have I Data Report on <u>7/28</u> . <u>1792</u> , ertificate Holder has constructed this part in over makes any warranty, expressed or implied, armore, neither the Inspector nor his employer
Date: <u>09/10/92</u> Certificate of Authorizati Certificate of Authorizati Certificate of Authorizati Constant of the certification of the Stress analysis report of DC22A6253 Rev. 1 Design specification cert DC22A6254 Rev 1 Stress analysis report certification CC22A6254 Rev 1 Stress analysis report certification CC22A6254 Rev 1 Stress analysis report certification CC22A6254 Rev 1 Stress analysis report certification and state that to the best accordance with the ASNE By signing this certification concerning the part desc shall be liable in any macconnected with this inspected <u>9/10</u> , 199 Date	Signed <u>GE-NEBG-NF&amp;CM-</u> (EPT Certificate Bolds on Expires: <u>6/16/93</u> Certification of Certification of Design f is at <u>GE Company</u> , San Jose, of file at <u>GE Company</u> , San Jose, if file at <u>GE Company</u> , San Jose, if file at <u>GE Company</u> , San Jose, stified by <u>Blom Haaberg</u> Prof. Eng. ertified by <u>Edward Yoshio</u> Prof. Eng. Certification of Bhc ing a valid commission by the National B with <u>Carolina</u> and employed by <u>Departm</u> pressure vessel described in this Partia at of my knowledge and belief, the NPT C Code Section III. ate, neither the Inspector nor his empli- ribed in the Partial Data Report. Furth sanar for any personal injury or propert ection. 2 <u>March Carolina</u> Inspector's Signature	Authorization No. : <u>NPTN-1151</u> For Appurtenance Callfornia <u>Callfornia</u> <u>Callfornia</u> <u>Callfornia</u> <u>State Callf.</u> Reg. No. <u>15570</u> Ng. State <u>Callf.</u> Reg. No. <u>M018646</u> Dp Inspection Deard of Boiler and Pressure Inspectors and/or the <u>ent of Labor</u> of <u>State of North Carolina</u> have I Data Report on <u>7/28</u> , <u>1791</u> , ertificate Holder has constructed this part in over makes any wirranty, expressed or implied, ermore, neither the Inspector nor his eroloyer y damages or a loss of any kind arising from or <u>NC 1231. Ohlo. WC 3686 PA</u> Mational Board. State, Province And No. Setches or drawing may be used <i>nformation in 1-2 on this Data</i> ) each sheet is numbered and <i>"REMARKS"</i> .
Date: 09/10/92 Certificate of Authorizati Design information on fill Stress analysis report or DC22A6253 Rev. 1 Design specification cert DC22A6254 Rev 1 Stress analysis report co DC22A6254 Rev 1 Stress analysis report co DC22A6254 Rev 1 Stress analysis report co I, the undersigned, -1dd State or Province on 2 inspected the part of a 1 and state that to the bein accordance with the ASME By signing this certifics concerning the part descent shall be liable in any main connected with this inspected Supplemental she provided (1) siz Report is include number of sheets	Signed <u>GE-NEBG-NF&amp;CM-</u> (EPT Certificate Bolds on Expires: <u>6/16/93</u> Certification of Certification of Design f is at <u>GE Company</u> , San Jose, of file at <u>GE Company</u> , San Jose, if file at <u>GE Company</u> , San Jose, if file at <u>GE Company</u> , San Jose, stified by <u>Blom Haaberg</u> Prof. Eng. ertified by <u>Edward Yoshio</u> Prof. Eng. Certification of Bhc ing a valid commission by the National B with <u>Carolina</u> and employed by <u>Departm</u> pressure vessel described in this Partia at of my knowledge and belief, the NPT C Code Section III. ate, neither the Inspector nor his empli- ribed in the Partial Data Report. Furth sanar for any personal injury or propert ection. 2 <u>March Carolina</u> Inspector's Signature	Authorization No. : <u>NPTN-1151</u> Cor Appurtenance Callfornia <u>Callfornia</u> <u>Callfornia</u> <u>Callfornia</u> State <u>Callf.</u> Reg. No. <u>15570</u> Ng. State <u>Callf.</u> Reg. No. <u>M018646</u> Dp Inspection Correspondence of <u>State of North Carolina</u> have 1 Data Report on <u>7/28</u> , <u>1792</u> , ertificate Holder has constructed this part in Cover makes any warranty, expressed or implied, ermore, neither the Inspector nor his employer y damages or a loss of any kind arising from or <u>NC 1231. Ohio. WC 3686 PA</u> Mational Board, State, Province And No. Setches or drawing may be used nformation in 1-2 on this Data ) each sheet is numbered and "REMARKS". (97/14)

6022.5213

Iter	ns 4-8 incl.	to be comp	leted for sing		Sals. jacket		shells of heat	exchangers.	1
(,	Shell: Nati	erial	T.S.	Nominal Thickness Specified)	in. A1	rrosion lowance	in. Dia ft.	in. Le	ngth ft
	Seams: Long			н.т.'		R.T.		Efficien	cyX
				•					ourses
									· · <b>`</b>
a) b)	Location ( Bottom, End	Top s), "Thick	Crown ness Radius	Knuckle Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press ( conv. or conc. )
<b>b</b> }	If removable	e, bolts us	ed			• Other faster	1 ing(0	· · · · · · · · · · · · · · · · · · ·	
•	Jacket Close	ure:	( Meterial	, 8000. No., T.S.	. Stae Humber) /	P	(0	eecribe or allach sim	nch )
		•					Charpy	Impact	•
-		•	·		1 at	<u>\$75 -</u>	F at tem	o of	F
			eted for tube						
•	Tube Sheets	: Stationa Floating	ry. Haterial . Haterial	( Kind & Sp	D1a D1a	Bubject to pressu	Thickness ) Thickness	in. Att in. Att	achment(Weided, Boile achment
•	Tubes: Hat	erial		0.0	in. Thic	kness	, inches er gege, Ni	mber	Type(Br. erU)
-							or channels of h		
-								· · · · · · · · · · · · · · · · · · ·	
		(19nd & Spe	e. No. ) (Min. of Pang	Thickness Specified)	: In. A1	lowance		r	ngth ft
•				1					cyX
		-							ourses
•	Heads: (a)	Katerial_	<del>م</del>		T.S	(b) Ж	sterial	T.S	•
<u>.</u> }	Location Top.bottom,	ends	Crown (ness Radius	Knuck le Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. ( conv. or conc. )
0)	Channel If removabl	e, bolts us	sed (a)	<u>_(b)</u>	(c)	Other	r fastening		
		•					Orop W Charpy	eight Impact	or enach sheich)
•	Design pres	sure		·	ps1 at		F at ten	p of	°F
te	ms below to	be compl-	for all vest	als where	applicable.				
	Safety Valv	e Outlets:	Kunber		Size		Locati	on	
•	Nozzles: Pu Cu	rpose (Iniet, Met, Drein )	Number	Die. or Stat	туре		, Thickness	Pointoreem Material	How Atlached
									······
•	Inspection Openings:	Kanholes, Handholes, Threaded,	Ko . Ko . Ko		Size Size	1	Location Location Location		
•	Supports:	Skirt(Ye	Lugs . W or No)	(Humber)	Legs	(Humber)	ther(Describe)	Attach	(Where & How)
÷	1 - If Postwold   2 - Uit other int		pressure with coincide	ni lemoerature v	when applicable.				
			-	Dor	ge <u>151</u>	of 218			
				raj	᠂᠃᠃᠃	ميدينية والم			

I

6022.5214

	6022.5214	. WO # 9:	5-022229-001
FORM N-2 NPT CERTIFICATE H	OLDERS' DATA REPORT FO	OR NUCLEAR PART AN	D APPURTENANCES*

1. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENE & CM)

FORM NIS-2 ATTACHMENT

SHEET 35 OF 79

- A Chattanooga. Tennessee 37402-2127 ( Name and Address of M Certificate Holder for completed nuclear component ) - -(b) Hanufactured for : __TVA
- Nat'l Bd. No. _______ 2. Identification - Certificate Holder's S/N of Part : _A5375_
  - (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson
  - (b) Description of Part Inspected: Control Rod Drive. Model # 7RDB144FG005
  - (c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W75, Case No. N207 1361-2 Class 1
- 3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed )

į,

		Sheet 2 of 2
1. Cap 166B9274P001 SA182 - F304 3/8° thick x 1 1/16° OD		•
2. Indicator Tube 166B9313/001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.065" max. dia.		1
3. Plug 159A1176P001 SA182 - F304 1/4" thick x 0.812" OD	Reactor Vesso] ThimDio	Codo PSOTP
4. Flange 919D810P001 (719E474) SA182 - F304 3.37° thick x 9 5/8° OD		
5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" die.	3-1	**
6. Ring Flange 114B5122P002, P003 137∩8151P001, P002 SA182 - F304 1° thick x 5.0° C. 1.75° ID	Code Wold PSOYPIO2	
7, Cap Screw 117C4516P002 SA193 - 86 6 ea. 1/2ª día. on 4 1/8ª bolt circle	5	
8. Plug 175A7981P001 SA182 - F304 0.38° thick x 1.307° dia.	Code Nold   PEOTPIOZ 6	
9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° die.	Rollod botoro wold g	e "
	Page 152 of 218	

.

• , ,

,

``

ی ۳ .

· •

6022-5278

FORM N-2 NPT SERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As regulared by the Provision of the ARME Code Bules, Section III, Div. I

1. Manufactur Scertified by : <u>General Electric Compart Nuclear Fuel & Components Manufacturing (GENF & CM)</u>

2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Hame and Address of MPT Certificate Holder )

FORM NIS-2 ATTACHMENT

WO# 95-022229-001

SHEFT 36 OF 79

nufactured for : <u>_____</u> Chattanoooa, Tennessee 37402-2127 ( Name and Address of N Certificate Moldar for completed nuclear component )

z. _ Nat'i Bd. No. <u>, ___N/A</u>_

Constructed According to Drawing No: <u>768E534G008 Rev. 9</u> Dwg. Prepared by <u>D. L. Peterson</u>

(b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005

- (c) Applicable ASHE Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class 1
- 3. REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min. ( Brief description of service for which component was designed )

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

Signed <u>GE-NEBG-NF&CM-OA</u> Date: 09/10/92 82 ( MPT Certificate Holder ) OF Appresentive ) NPT N - 1151 Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : Certification of Design for Appurtenance Design information on file at ____ __GE Company . San Jose . California Stress analysis report on file at ____<u>GE Company. San Jose. California</u> DC22A6253 Rev. 1 Design specification certified by _Blorn Haaberg_ Prof. Eng. State _Callf. Reg. No. _15570_ DC22A6254 Rev 1 Stress analysis report certified by _Edward Yoshio_ Prof. Eng. State Calif. Reg. No. MO18646 Certification of Shop Inspection I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>Province of 27.2</u>, <u>Province</u> and state that to best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with t. SNE Code Section III. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied. concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. . 1992 Assome PEnere NC 1231, Ohio, WC 3686 PA , National Board, State, Province And No. <u>9/10</u>

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

Inspector's Signature

Date

Page 153 of 218

Name + 4 + 5 - ---

( 07/90 }

Sheet 1 of 2

6022.5279

٩,

ł

ан А.1

ζ.,

FORM M-2 ( back )

								at exchangers.		
I. 3	Shell: Mate	rial	T.S	Nominal Thickness Spealed}	in. All	rosion lowance	in. Die	ft in.	length ft	In
i. s	Seams: Long	- <u></u>		н.т.'		R.T		Effici	mcy	Ļ.
	Girt	h		н.т.'		R.T		No. of	Courses	
i. 1	Heads: (a)	Haterial			T.S	(b) K	aterial	T	.s	<del></del>
	location ( T	iop i ) Thickne	Crown C	Knuckle Radius	Elliptical Ratio	Concial	Hemisphéric Radius	al Flat Diameter	Side to Pres	<b>\$</b>
		, bolts used	( Material	. Spec. Ho., T.S.		Other faste	ning	(Deseribe or stiech	shatch }	
• •	JECKEL GIOSU	ire:	(De	earthe as ages ar	d wold, bar, etc. Th	er give dimensions,	I bollo, describe er	wich) o Velcht	le .	
-1		2					•	p Veight		•
J. 1	Destign press	ure	1250	ps	at	575	Fat	temp of		F
		to be complet								
).	Tube Sheets:	: Stationary	/. Haterial	/ Kond & Ber	01a	·	Thicknes	18 in. * A 18 in A	ttachment	ided. Soled )
		Floating.	Haterial		D1a	·	Thicknes	18 în. <i>V</i>	ttachment	
).	Tubes: Mate	erial		0.0	in. Thic	kness	_ Inches or gage.	Number	Туре	(Str. or U)
	- 11 - 14 4		lated for	lones ches	and of lacks	ted versals	or chancels (	of heat exchang		
-										
<b>.</b>	Shell: Hat	erial	T.S. No.) (Min. of Plane	Thickness	in. Al		in. Dia	_ ft in.	Length fi	: 1r
2.		9		· ·				Effic		
	Gir	th		н.т.'		R.T.		No. of	Courses	
3.	Heads: (a)	Katerial			T.S	(b) ł	katerial		.s	
(4)	Location Top, bottom,	ends	Crown ess Radius	Knuckle Radius	Elliptical Ratio	Concial Apex Angle	Hemispheri Radius	cal Flat Diameter	( conv. or (	ss. conc. )
(b)				(b)	(c)	0th	er Tastening			
•								(Dee op Veight arpy Impact	orbe er atlach sketch	
		2					Ch •	arpy Impact	<u></u>	ft-1b
4.	Design pres	sure			psi at		F at	temp of		_ F
		be completed								
5.	Safety Valv	e Outlets	lumber		Size		Lo	cation		
6.	Nozzles: Pu Ou	rpese (Inlet, del, Drain )	Humber	Dia, or Stor	- Type	Madaria	d Thising	Peinfon Ne Melorie		Jached
									·	
7.	Inspection	Manholes,	No		Size	<u> </u>	Location			
	Openings:	Handholes, Threaded,	No		5120 5120		Location	-	-	
	Supports:							Att		
	1 • I Perheold I	feet-Treated.	u.							
:	2 - Uit other ini	iernal or external pr	essure with soincid	ient temperature v	uhen applicable.					
			•	Page	<u>154</u> of	<u> 818</u>	•	•		*

FORM NIS-2 ATTACHMENT Sheet 37 of 19 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. As required by the Provision of the ASNE Code Rules, Section III, Div. I WO#95-022229-001 . T 1. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM) 2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of MFT Certificate Bolder ) A Chamanooga. Tennessee 37402-2127 ( Name and Address of M Certificate Bolder for completed nuclear component ) (b) Manufactured for : _______ 2. Identification - Certificate Holder's S/N of Part : A5642 _ Nat'i Bd. No. __<u>N/A</u> (a) Constructed According to Drawing No: 768E534G008 Rev. 9 Dwg. Prepared by D.L. Peterson (b) Description of Part Inspected: ____Control Rod Drive, Model # 7RDB144FG005 (c) Applicable ASHE Code: Section III, Edition 1974, Addenda Date W75, Case No. N207 1361-2, Class 1. 3. REWARKS: _Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 2 of 2 F) 1. Cap 166B9274P001 SA182 - F304 3/8" thick x 1 1/16" OD 2. Indicator Tube 15689313P001 SA312 - TP316 3/4° sch 40 - seemless pipe 0.113° well thickness 1.065" mex. dia. Reseter 3. Plug 159A1176P001 ¥0000I SA182 - F304 1/4" thick x 0.812" OD Codo NoId Thimble PSOYP102 2 4. Flange 9190610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. Code Held 6. Ring Flange 11485122P002, P003 PSOYPICS 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID A 7. Cap Sci. 117C4516P002 SA193-B6 6 es. 1/2" dis. on 4 1/8" bolt circle 7 6 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" dia. Code Nold PROYPIOS Rollod botoro 9. Nut 137C5934P001 XM - 19 SA479 1.30" thick x 2.62" dia. Page 155 of 218

-----

ر کار بیر و ۱۹۵ میرود بیر در و رو در این میکونی میکور و ۲

.........

. ι.

,

4 1 *2* . r

•

•

. ۲ م

	SHEET 38 OF 79
	5022.5256 WO # 95-022229-001
	FORM N-2 NPT CEREMICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES As required by the Provision of the ASHE Code Rules, Section III, Div. I
. )	lanufactured exertified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF &
	2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of MPT Certificate Bolder )
1	b) Resifactured for : <u>TVA Challanooga. Tennessee 37402-2127</u> ( Name and Address of N Certificate Bolder for completed nuclear component )
. ]	
·	Constructed According to Drawing No: _768E534G008 Rev. 9 Dwg. Prepared by D.L. Peterson
	(b) Description of Part Inspected: <u>Control Rod Drive. Model # 7RDB144FG005</u>
	(c) Applicable ASME Code: Section III, Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class
. 6	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed )
	Sheet 1 of
CC Re 11	e certify that the statements in this report are correct and this vessel part or appurtenance as defined in the c onforms to the rules of construction of the ASHE Code Section III. ( The applicable Designed Specification and St opport are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurte a responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not include the component Design Specification and Stress Report ).
D	ate: 09/10/92 Signed <u>GE-NEBG-NF&amp; CM-OA</u> By <u>Signed</u> (SPT Certificate Bolder )
C	ertificate of Authorization Expires: <u>8/18/93</u> Certification of Authorization No <u>NPTN-1151</u>
<u>.</u>	Certification of Design for Appurtenance
	Design information on file at GE Company, San Jose, California
	Stress analysis report on file at <u>GE Company, San Jose, California</u>
	DC22A6253 Rev. 1 Design specification certified by <u>Blorn Haaberg</u> Prof. Eng. State <u>Callf</u> Reg. No. <u>15570</u>
	DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshlo</u> Prof. Eng. State <u>Callf.</u> Reg. No. <u>M018646</u>
	р п.
	<b>Certification of Shop Inspection</b> I, the undersigned, Iding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>orth Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have inspected the part of a pressure vessal described in this Partial Data Report on <u>CR7.792</u> . and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in
	Certification of Shop Inspection I, the undersigned, Iding a valid commission by the National Board of Soiler and Pressure Inspectors and/or the State of Province on <u>Orth Carolina</u> and employed by <u>Department of Labor of State of North Carolina</u> have Department of Labor of <u>State of North Carolina</u> have
	<b>Certification of Shop Inspection</b> I, the undersigned, Iding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Orth Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have inspected the part of a pressure vessal described in this Partial Data Report on <u>PAT</u> . <u>2792</u> . and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or
	<b>Certification of Shop Inspection</b> I, the undersigned, Iding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Orth Carolina</u> , and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have inspected the part of a pressure vessal described in this Partial Data Report on <u>Province of 27.27.2992</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASNE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this Inspection.
	Certification of Shop Inspection I, the undersigned, Iding a valid commission by the National Board of Soiler and Pressure Inspectors and/or the State or Province of <u>2010 Carolina</u> , and employed by <u>Department of Labor</u> of <u>State of Nonh Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>2027</u> . <u>292</u> . and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty. expressed or implied. concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be Itable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>9/10</u> . <u>1992</u> <u>Ourse P Every</u> <u>NC 1231. Ohlo. WC 3686 PA</u> (Inspector's Signature) <u>Retional Board</u> , State. Province And No. Upplemental sheets in form of lists, sketches or drawing may be used rovided (1) size is $8-1/2^m \times 11^m$ , (2) information in 1-2 on this Data eport is included on each sheet, and (3): each sheet is numbered and umber of sheets is recorded in Item 3. "REMARKS".

## \$022.5257

Ite	<b>ns 4-8 Inc</b>	:1. to be co	splated f	or sing	le vall ve	sels, jacket	s vessels, or	shells of hea	t exchangers.		
4.	Shell: )	fateria] (IONEAS	T.S.	in, of Pange	Nominal Thickness Specified)	in. A1	rrosion lowance	in. Dia	ft in. L	ength ft	in
5.	Seams: L	Long					R.T.		Efficie	ncy	×
	(	61rth			н.т.'	·	R.T.		No. of	Courses	
6.	Heads:	(a) Material			. · ·	T.S	% (b) K	aterial	T.	s.'	4
(a)		Ends) Thi	ckness	Radius	Radius	Ratio	Apex Angle	Radius	1 Flat Diameter	Side to Pres ( conv. or c	
(b)	If remove	able, bolts	used				Other faste	ning			
7.				لمعملها ا	Road Ma TR	Stan in second l			(Describe or attach i	hetch)	
									py Impact		ft-lb
						1 at	575	_ F at t	exp of		F
		10 to be com									
у.	lube She	ets: Statio Floati	nary, M ng. Hi	sterial .	(Kind & Sp	D14	L(Bubject to presev	Thickness Thickness	in. At	tachment	olded, Boiled )
10.	Tubes: 1	Material			0.D	in. This	kness	_ inches or gage.	Number	Type	(3v. er U)
Ite	<b>ms</b> 11 - 1	4 incl. to b	e comple	ted for	inner cham	bers of jacks	eted vessels,	or channels of	heat exchange	rs,	
11.	Shell:	Katerial	T.S	An. of Pang	Nominal Thickness • Specified)	in. A	prosion llowance	in. Die	ft in. l	ength ft	: In
12.	Seame:	Long			н.т.1		R.T.		Efficie	incy	×
		6irth	·		н.т.1				No. of	Courses	<del>,</del>
13.	Heads:	(a) Haterial	l			T.S	(b) K	aterial	T.	s	<u> </u>
(a)	Top, bott	ion Thi om, ends			Radius					( conv. or c	
(0)	Channel If remov	able, bolts	used (a)			(c)	Othe	r fastening			
								Drop Char	Weight	ibe er allach sheich )	ft-lb
14.	Design p	ressure	<u> </u>			psi at		F at t	amp of		F
Ite	ms below	to be comple	ited 1.	311 Y881	sels where	applicable.					
15.	Safety V	alve Outlet:	1: " Numbe	r		Size		Loca	tion		
16.	Nozżles:	Purpose (Inist, Oulist, Drain)		ber	Cia. or Size	Тури	, > . . Material	I Thickness	Reinforce Material		tached
							······	••			
17.	Inspecti Openings	ion Manhole :: Handhol Threade	s, No.			Size Size		Location Location			
18.	Supports		(Yas or No )	Lugs	(Number)	Legs	(Humber)	)ther	Atta	ched(Where	L How)
		eid Heal-Treated. er Internal er exter	nal pressure v	with poincide	ni iemperature :	ihen epplicable,"				•	

Page 157 of 218

1

٩.

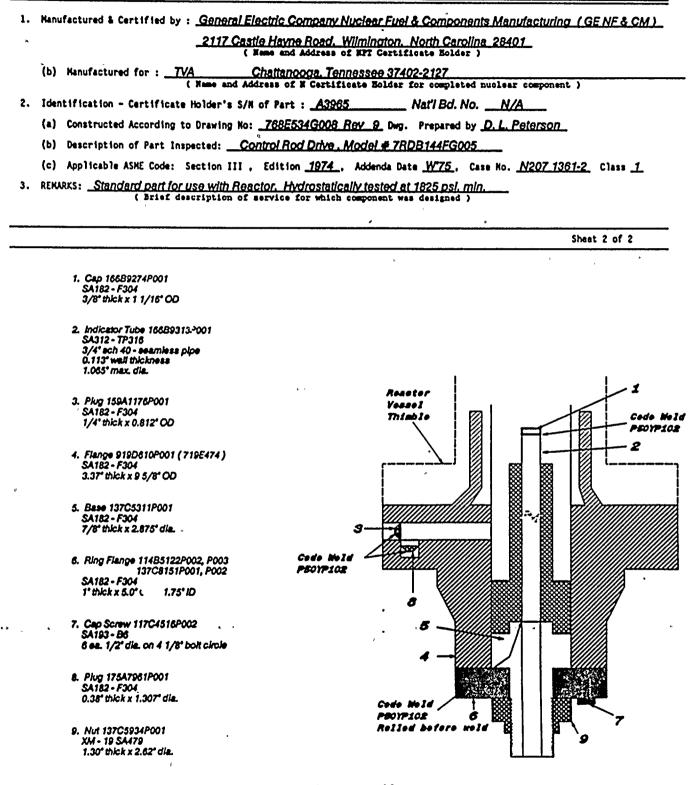
## FORM M-2 ( back )

:WO # 95-022229-001

FORM NIS-2 ATTACHMENT

SHEET 39. OF 79

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



Page 158 of 218

. ,

ø

n N •

. .

•

.

-

· · ·

**,** 1

2

e k ,

Form NIS-2 Attachment Sheet 40 of 79 WO# 95-022229-001

a =

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

ħa

-	
1.	Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
	2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Name and Address of NPT Certificate Holder)
	(b) Manufactured for : TVA DECATUR. AL 35609-2000 (Name and Address of N Certificate Holder for completed nuclear component)
	(Name and Address of N Certificate Holder's S/N of Part : <u>A3741</u> Nat'l Bd. No. <u>N/A</u>
2.	
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D. L. Peterson</u>
	(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
_	(c) Applicable ASKE Code: Section III, Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3.	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min.</u> (Brief description of service for which component was designed)
	Sheet 1 of 2
	Ve certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ).
	Date: 09/26/95 Signed <u>GE-NE</u> By Signed Signed <u>GE-NE</u> By Signed Sc QA Representive )
	Certificate of Authorization Expires: 6/16/96 Certification of Authorization No. : NPTN-1151
	Certification of Design for Appurtenance
	Design information on file at <u>GE Company, San Jose, California</u>
	Stress analysis report on file at <u>GE Company. San Jose, California</u>
	OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
-	OC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	Certification of Shop Inspection
	I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>P/14</u> , <u>225</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
	Gias. 1995     Jume P & Men     NC 1231. Ohio. WC 3686 PA       Date /     Inspector's Signature     National Board, State, Province And No.
*	Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".
	(47/99)
	Page <u>159</u> of <u>218</u>

		(back)	
tems 4-8 Incl. to be completed fo			exchangers.
4, Shell: Material,T.S. (Kind & Spec. No.) (Min	Thickness in.	Corrosion Allowance in. Dia fi	t in. Length ft in
5. Seams: Long	н.т.'	R.T	Efficiency%
		R.T	No. of Courses
5. Heads: (a) Material			
• _		Concial Hemispherical	Flat Side to Press.
(a) Ends ) Thickness R	adius Radius Ratio	Apex Angle Radius	Diameter ( conv. or conc. )
If removable, bolts used	(Material, Spec. Ho., T.S. Size Humber)	Other fastening(	Describe or attach sketch )
7. Jacket Closure:	(Describe as oges and weld, ber, etc.	If bar give dimensions, If bolts, describe or state	ch)
			Weight ft-lb
3. Design pressure12		\$75F at te	mp of°F
items 9 and 10 to be completed for		н,	
3. Tupe Sheets: Stationary, Hal	cerial 0	ia Thickness	in. Attachment
Floating, Kat	(IGnd & Spec. No.)	• (Subject to pressure)	in. Attachment
0. Jubes: Material			
Items 11 - 14 incl. to be complete	d for inner chambers of lar	keted vessels or channels of	
itens II - I4 incl. to be complete		Corrosion	
1. Shell: Haterial T.S. (Kind & Spec. No.)(Mile	Thickness in.	Allowance in. Dia f	t in. Length ft i
12. 'Seams: Long	н.т	R.T	EfficiencyX
Girth	1	R.T.	No. of Courses
13. Heads: (a) Material		(b) Haterial	T.S
	Crown Knuckle Elliptica Radius Radius Ratio		Flat Side to Press.
		Other fastening	
· · · · · · · · · · · · · · · · · · ·			( Describe or attach sketch )
2		Charp	Veight ft-lb
14. Design pressure	psi at	F at te	emp of F
Items below to be completed for a	Il vessels where applicable.	•	
15. Safety Valve Outlets: Number	S1:	ze Locat	ion
16, Nozzles: Purpose (inler, Outer, Drain) Numb		rpe Material Thickness	Reinforcement Material How Attached
······································			
17 Teeneeties Nachalas' / Na		1 ocation	
17. Inspection Manholes. No. Openings: Handholes, No.	Size	Location	
Threaded, No.	512e		<u> </u>
18. Supports: Skirt(Yee or No)	Lugs Legs	(Number) Other	Attached
		franker (comme	, (
1 - If Postweid Heat-Treated. 2 - List other internal or external pressure wi	h coincident temperature when applicable.	•	
		*	

ì

:

Page 160 of 218

. .

WO # 95-02229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

FORM NIS-2 ATTACHMENT

SHEET 41 OF 79

1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) 2117 Castle Hayne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) (b) Manufactured for : TVA DECATUR, AL 35609-2000 ( Name and Address of N Certificate Holder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : <u>A3741</u> (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Peterson (b) Description of Part Inspected: Control Rod Drive, Model # 7RDB144FG005 (c) Applicable ASHE Code: Section III. Edition <u>1974</u>, Addenda Date <u>W75</u>, Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 166B9274P001 SA182 - F316 3/8" thick x 1 1/16" OD 2. Indicator Tube 16689313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.065° max. dia. 1 Reactor 3. Plug 159A1176P001 Yessel SA182 - F304 Thimble Code Meld 1/4" thick x 0.812" OD P501P102 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. Code Nold 6. Ring Flange 114B5122P002, P003 P501P102 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID я 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2º dia. on 4 1/8º bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" dia. Code Neld P50YP102 6 Rolled before weld 9. Nut 137C5934P001 XM - 19 SA479 1.30" thick x 2.62" dia. Page 161 of 218

. • •

\$

έ.

•

• •

· · · · · ·

a. ts.

*, 

rs.

r 14

FORM NIS-2 ATTACHMENT
SHEET 42 OF 79
WO # 95-022229-001
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I
1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
<u>2117 Castle Hayne Road, Wilmington, North Carolina 28401</u> (Name and Address of NPT Certificate Holder)
(b) Hanufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> (Name and Address of N Certificate Holder for completed nuclear component)
2: Identification - Certificate Holder's S/N of Part : <u>A3959</u> Nat'l Bd. No. <u>N/A</u>
(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.Peterson</u>
(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
(c) Applicable ASHE Code: Section III. Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.</u> (Brief description of service for which component was designed)
· •
Sheet 1 of 2
conforms to the rules of construction of the ASHE Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u>
Certification of Design for Appurtenance
Design information on file at GE Company, San Jose, California
Stress analysis report on file at <u>GE Company, San Jose, California</u> ,
OC22A6253 Rev. 2 Gesign specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
OC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
Certification of Shop Inspection
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>9774</u> . <u>795</u> , and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
<u>7/26. 1995</u> <u>June P. C. NC 1231. Ohio. WC 3686 PA</u> Date National Board, State, Province And No.
*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

Page 162 of 2.18

(47/90)

FORM N-2 ( back )

, r *

11

	e 4.2 10	el to b	e comilei	ed for sing	le wall ves	sels, jackets	vessels, or	shells of heat	exchangers.	
		Material			Nominal Thickness	A				h ft in
5	laser				1		R.T.		Efficiency	X
3.	389005,				1				No. of Cour	
		'51rtn			n. I				T.S	
			ef.						·····	Se to Press.
	Bottom.	Ends )		ss Radius	Radius	Ratio	Concial Apex Angle			conv. or conc. )
(b)	if remo	vaple, bo	olts used	()			Other faster	ning	<u></u>	
,									Describe or attach sketch	)
•	-			(De	-			Charp	/eight / Impact	ft-lb
8.	Deston	oressure	2	1250	ps	i at	57 <u>5</u>	F at ter	mp of	°F
_				ed for tube						
						Dia	•	Thickness	in. Attac	hment
э,	1. 1.		lastina	Natoria)	(Kind & Sc	bec. No. 1	(Subject to pressu	Thickness	in. Attac	(Weided, Bolled )
10.	Tubes:								lumber	
	ne 11 e	14 incl	to be cr	moleted for	inner char	bers of jacke	ted vessels.	or channels of	heat exchangers.	<u></u>
		C	Kind & Spec. I	No. ) (Min. of Ren	ge Specified ) 1	s in. Al				th ft 1n
12.	Seams:				1					rses
13.	Feads:	(a) Hat	erial							
(a)	Loc		Thicknes	ess Radius		Elliptical Ratio	Concíal Apex Angle	Hemispherical Radius	Flat Si Diameter (	de to Press. conv. or conc. }
(b)	Channe If rem	1 ovable, l	olts use	d (a)	<u>(b)</u>	(c)	Othe	r fastening	· · · · · · · · · · · · · · · · · · ·	
			•					Drop Charp	(Describe or Weight y Impact	ratach skalch) ft=1b
14.	Design	pressure	2 6			psi at		°Fatte	mp of	°F
_						applicable.				
								Locat	ion	
		S; Purpose							Peinforcement	
10.	102218	Cuclet, C	•	Number	Dia. or Siz	е Туре	Materia	I Thickness	Material	How Allached
										^
			•		<u> </u>	·			<u></u>	
17.	Inspec Openin	ngs: Ha	ndho les,	NO		Size		Location		
		Th	readed,	No		_ Size		Location		
18.	Suppor	rts: Sk	irt	Lugs	( ) h	Legs	(Nember)	Other	Attached	j(Where & How)
	t a il De	attended belanter	•	or No }			(	(*****	•	

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

Page 163 of 218

FORM NIS-2 ATTACHMENT SHEET 43 OF 79 WO # 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I

• •	_2117 Cast	lectric Company Nuclear Energy (GE-NE) tle Hayne Road, Wilmington, North Carolina 28401
		Name and Address of NPT Certificate Holder )
		DECATUR, AL 35609-2000 dress of N Certificate Bolder for completed nuclear component )
٤.	Identification - Certificate Holder's S/N	of Part :
	(a) Constructed According to Drawing No:	768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson
	(b) Description of Part Inspected: <u>CO</u>	ontrol Rod Drive , Model # 7RDB144FG005
	(c) Applicable ASME Code: Section III .	Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3.		<u>ctor. Hydrostatically tested at 1825 psi. min.</u> service for which component was designed )
	······································	Sheet 2 of 2
<u> </u>	· · · · · · · · · · · · · · · · · · ·	······································
	1. Cap 166B9274P001 SA182 - F316 3/8' thick x 1 1/16' OD	• • •
	1	,
	2. Indicator Tube 16689313P001 SA312 - TP316 3/4° sch 40 - seamless pipe 0,113° wall thickness	
	1.065° max. dia.	·····
	3. Plug 159A1176P001 SA182 - F304	Reactor Vessel Thimble Ri Code Kel
	1/4" thick x 0.812" OD	Thimble Code Hell
	4. Flange 919D610P001 (719E474)	2
	SA182 - F304 3.37" thick × 9 5/8" OD	
	5. Base 137C5311P001	
	SA182 • F304 7/8" thick x 2.875" dia.	3
	6. Ring Flange 114B5122P002, P003 137C8151P001, P002	Code Weld
	SA182 - F304 1° thick x 5.0° OD x 1.75° ID	; 8
	7. Cap Screw 117C4516P002	· 5
	SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle	4
	8. Plug 175A7961P001	
	SA182 - F304 0.38" thick x 1.307" dia.	Code Weld PSOYP102 6
I	9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.'	Rolled before weld g g
	· · · · ·	Page 164 of 218

,

Ģ

.

de .

r

- . . . .

-

5

· * * • •

,

•

• .

,

	A
•	FORM NIS-2 ATTACHMENT SHEET 44 OF 79
•	WA# 95-02220-001
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
	As required by the Provision of the ASHE Code Rules, Section III, Div. I
1	Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
••	2117 Castle Havne Road, Wilmington, North Carolina 28401
	( Name and Address of NPT Certificate Holder )
	(b) Manufactured for : <u>TVA</u> <u>DECATUR. AL 35609-2000</u> ( Name and Address of H Certificate Holder for completed nuclear component )
2.	Identification - Certificate Holder's S/N of Part : <u>A4779</u> Nat'l Bd. No. <u>N/A</u>
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.Peterson</u>
	(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
	(c) Applicable ASKE Code: Section III. Edition <u>1974</u> . Addenda Date <u>W75</u> . Case No. <u>N207 1361-2</u> Class <u>1</u>
3.	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed)
	Sheet 1 of 2
	Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances
	Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Stress Report (SC QA Representive )
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ).
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: 09/26/95 Signed <u>GE-NE</u> By Signed (NPT Certificate Holder ) (SC QA Representive )
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u>
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Stress (SC QA Representive ) ( NPT Certificate Bolder ) ( SC QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> , Certification of Authorization No. : <u>NPT N-1151</u> • Certification of Design for Appurtenance
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Stress Report (SC QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> , Certification of Authorization No. : <u>NPT N - 1151</u> • Certification of Design for Appurtenance Design :nformation on file at <u>GE Company. San Jose. California</u>
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u>
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By (SC QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> , Certification of Authorization No. : <u>NPT N - 1151</u> • Certification of Design for Appurtenance Design information on file at <u>GE Company</u> , San Jose, California Stress analysis report on file at <u>GE Company</u> , San Jose, California DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By (SC QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> , Certification of Authorization No. : <u>NPTN - 1151</u> • Certification of Design for Appurtenance Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Srighar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u>
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u>
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u>
	<pre>is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u></pre>

ч

Λ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	¥0.		
Z 🔪 e Hem	χύνο τη φημοί Mar anima γ	and a fraction of the sources	manaasin ¹ isty tinta	รางกลังเหติสารณ์ของวัฒนิกรุ - รรุ - 🦷 - 6 ะ 7 ระ 51
`*		1		ε ε
		FORM N-2	( back )	
	i		s vessels, or shells of heat	exchangers.
items 4-8 Incl. to	be completed for sin		•	
4, Shell: Hateria (*	T.S. Gnd & Spec. No. ) (Min. of Pen	Thickness in. Al	rrosion lowance in. Dia ft	: in. Length ft
5. Seams: Long		H.T.,	R.T	Efficiency
Girth		H.T.	*R.T	No. of Courses
				T.S
	-			
	Thickness Radius		Apex Angle Radius	Diameter ( conv. or conc.
(1)				
If removable, b	olts used	net, Spec. No., T.S. Size Number)	Other fastening(	Describe or attach shatch )
7. Jacket Closure:	•		ber give dimensions, if bolts, describe or state	ch1
	((	'aaninga ee cihaa alin magn' gan' are' 's	Orop 1	Weight ft-1
•	2		0	•
3. Design pressure	1250	psi at	<u> </u>	moofF
liems 9 and 10 to b	e completed for tub	e sections		
3. Tube Sheets: S	itationary. Materia	1 Di	a Thickness	in. Attachment
		110 - 4 0 Al- A	( Charles and the management of a )	f Weided, Br
I	loating. Materia	(Kind & Spec. No. ) 101	(Subject to pressure) a Thickness	in. Attachment
I	loating. Materia	(Kind & Spec. No. ) 101	( Charles and the management of a )	in. Attachment
C. Tubes: Materia	Floating. Kateria	1 Di 0.D in. Thi	(Subject to pressure) a Thickness ckness inches or gage. /	(Welded, Br in. Attachment Number Type (Sv.or
I C. Tubes: Materia Items 11 - 14 incl	loating. Materia	1 (Kind & Spec. No.) D1 0.D. in. Thi r inner chambers of jack	(Subject to pressure) a Thickness ckness inches or gage. / eted vessels, or channels of i prossion	(Welded Br 
iC. Tubes: Materia items 11 - 14 incl	loating. Hateria	1     (Kind & Spec. No.)     D1       0.D.     in.     Thi       r inner chambers of jack       Nominal     C       Thickness     in.	(Subject to pressure) a Thickness ckness inches or gage. / eted vessels, or channels of i prossion	(Welded, Br in. Attachment Number Type (Sv.or
iC. Tubes: Materia items 11 - 14 incl 11. ² Shell: Materia	Toating. Hateria	1 Di Di in. Thi r inner chambers of jack Nominal in. A nge Specfed)	(Subject to pressure) a Thickness Thickness ckness inches or gage. // eted vessels, or channels of // orrosion llowance in. Dia f	(Welded B 
iC. Tubes: Materia items 11 - 14 incl 11. ² Shell: Materia	Toating. Hateria	1 (Kind & Spec. No.) D1 0.D. in. Thi r inner chambers of jack Nominal C Thickness in. A nge Specified) H.T.	(Subject to pressure) a Thickness Thickness inches or gage. // eted vessels, or channels of f orrosion in. Dia f R.T	(Welded B Type
iC. Tubes: Materia items 11 - 14 incl 11. Shell: Materia 12. Seams: Long _	Toating. Hateria	1 (Kind & Spec. No.) 1	(Subject to pressure) a Thickness Thickness ckness inches or gage. // eted vessels, or channels of // orrosion llowance in. Dia f	(Welded B Type
iC. Tubes: Materia items 11 - 14 incl i1. ² Shell: Materia 12. Seams: Long Girth	loating. Hateria	1 (Kind & Spec. No.) 1	(Subject to pressure) a Thickness Thickness inches or gage. // eted vessels, or channels of f orrosion in. Dia f R.T	(Welded B 
iC. Tubes: Materia items 11 - 14 incl i1. ² Shell: Materia 12. Seams: Long Girth	Toating. Materia	1       (Kond & Spec. No.)       D1	(Subject to pressure) a Thickness Thickness Inches or gage. // eted vessels, or channels of f orrosion in. Dia f R.T R.T (b) Material Concial Hemispherica;	(Welded B 
iC. Tubes: Materia items 11 - 14 incl 11. Shell: Materia 12. Seams: Long Girth 13. Heads: (a) Ma Location	Thickness Radiu	1       (Kond & Spec. No.)       D1	(Subject to pressure) a Thickness Thickness inches or gage. // eted vessels, or channels of // orrosion in. Dia f R.T R.T (b) Material	(Welded B 
items 11 - 14 incl items 11 - 14 incl it. Shell: Materia () 12. Seams: Long Girth 13. Heads: (a) Ma Location (a) Top,bottom,end (b) Channel	Thickness Radiu	1       (Kind & Spec. No.)       D1         0.D.       in. This         r inner chambers of jack         Nominal       C         Thickness       in. A         nge Specified)       1         H.T.       T.S.         T.S.       T.S.         Nuck le       Elliptical         is       Radius	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of // orrosion llowance in. Dia f R.T R.T (b) Material Concial Hemispherical Apex Angle Radius	(Welded B 
Items 11 - 14 incl Items	Thickness Radiu	1       (Kond & Spec. No.)       D1	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of // orrosion llowance in. Dia f R.T (b) Material Concial Hemispherical Apex Angle Radius Other fastening	(Welded, B (Welded, B Number Type heat exchangers. t in. Length ft Efficiency No. of Courses T.S T.S Side to Press. Diameter ( conv. or conc. (Describe or stach seetch)
items 11 - 14 incl items 11 - 14 incl it. Shell: Materia () 12. Seams: Long Girth 13. Heads: (a) Ma Location (a) Top,bottom,end (b) Channel	Thickness Radiu	1       (Kind & Spec. No.)       D1         0.D.       in. This         r inner chambers of jack         Nominal       C         Thickness       in. A         nge Specified)       1         H.T.       T.S.         T.S.       T.S.         Nuck le       Elliptical         is       Radius	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of f orrosion llowance in. Dia f R.T R.T (b) Material Concial Hemispherical Apex Angle Radius Other fastening Drop	(Welded B 
Items 11 - 14 incl Items	loating. Hateria	1	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of // orrosion llowance in. Dia f R.T (b) Material Concial Hemispherical Apex Angle Radius Other fastening 0 roo Charp	(Welded, Br (Welded, Br Number Type
Items 11 - 14 incl Items 11 - 14	<pre>floating. Hateria al to be completed fo alT.S Kind &amp; Spec. No.) (Min. of Pe terial Thickness Radiu s bolts used (a) 2 e</pre>	1	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of // orrosion llowance in. Dia f R.T (b) Material Concial Hemispherical Apex Angle Radius Other fastening 0 roo Charp	(Welded, Br (Welded, Br Number Type
iC. Tubes: Materia items 11 - 14 incl items 11 - 14 incl it. Shell: Materia it. Shell: Materia it. Seams: Long Girth i3. Heads: (a) Ma Location (a) Top.bottom.end (b) Channel If removable, i4. Design pressur items below to be	<pre>floating. Hateria al to be completed fo alT.S Nond &amp; Spec. No.) (Mm. of Pec terial terial terial bolts used (a) completed for all very </pre>	1       (Kond & Spec. No.)       D1         2       0.D.       in. This         r inner chambers of jack       Nominal       C         Thickness       in. A         nge Specified)       in. A         H.T.       T.S.         M.T.       T.S.         Knuck le       Elliptical         is       Radius         Ratio       (c)	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of // orrosion llowance in. Dia f R.T (b) Material Concial Hemispherical Apex Angle Radius Other fastening Drop Charp	(Welded, B (Welded, B Number Type heat exchangers. t in. Length ft Efficiency No. of Courses No. of Courses I.S Flat Side to Press. Diameter ( conv. or conc.  (Deecrebe or stach seetch) Veight ft-1 pro of F
iC. Tubes: Materia items 11 - 14 incl items 11 - 14 incl it. Shell: Materia it. Shell: Materia it. Seams: Long Girth i3. Heads: (a) Ma Location (a) Top.bottom.end (b) Channel If removable, i4. Design pressur items below to be	<pre>floating. Hateria al to be completed fo alT.S Nond &amp; Spec. No.) (Mm. of Pec terial terial terial bolts used (a) completed for all very </pre>	1	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of // orrosion llowance in. Dia f R.T (b) Material Concial Hemispherical Apex Angle Radius Other fastening Drop Charp F at te	(Welded, B (Welded, B Number Type heat exchangers. t in. Length ft Efficiency No. of Courses No. of Courses I.S Flat Side to Press. Diameter ( conv. or conc.  (Deecrebe or stach seetch) Veight ft-1 pro of F
<ul> <li>Items 11 - 14 incl</li> <li>Items 11 - 14 incl</li> <li>Shell: Materia</li> <li>Shell: Materia</li> <li>Seams: Long</li></ul>	loating. Materia	1	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of f orrosion in. Dia f R.T (b) Material Concial Hemispherica: Apex Angle Radius Other fastening 0 or charp F at te	(Welded, Br (Welded, Br Number Type
<ul> <li>Items 11 - 14 incl</li> <li>Items 11 - 14 incl</li> <li>Shell: Materia</li> <li>Seams: Long</li></ul>	loating. Materia	1       (Kond & Spec. No.)       D1         2       0.D.       in. This         r inner chambers of jack       Nominal       C         Thickness       in. A         nge Specified)       in. A         H.T.       T.S.         M.T.       T.S.         Knuck le       Elliptical         is       Radius         Ratio       (c)	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of f orrosion in. Dia f R.T (b) Material Concial Hemispherica: Apex Angle Radius Other fastening 0 or charp F at te	(Weided, B 
<ul> <li>Items 11 - 14 incl</li> <li>Items 11 - 14 incl</li> <li>Shell: Materia</li> <li>Shell: Materia</li> <li>Seams: Long</li></ul>	loating. Materia	1	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of f orrosion in. Dia f R.T (b) Material Concial Hemispherica: Apex Angle Radius Other fastening 0 or charp F at te	(Welded, Br (Welded, Br Number Type
iC. Tubes: Materia items 11 - 14 incl items 11 - 14 incl it. Shell: Materia iC. Seams: Long Girth 13. Heads: (a) Ma Location (a) Top.bottom.end (b) Channel If removable. 14. Design pressur items below to be 15. Safety Valve O 16. Nozzles: Purpose Output	<pre>floating. Hateria al to be completed fo alT.S Kond &amp; Soec. No.) (Mn. of Pe terial terial to bolts used (a) bolts used (a) completed for all ve utlets: Number e(inied, Drain) Humber</pre>	1       (Kind & Spec. No.)       Di         2       0.D.       in. This         r inner chambers of jack       Nominal       C         Thickness       in. A         nge Specified)       in. A         H.T.	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of f orrosion llowance in. Dia f R.T (b) Material Concial Hemispherical Apex Angle Radius Other fastening Drop Charp F at te	(Welded, Br in. Attachment
iC. Tubes: Materia items 11 - 14 incl items 11 - 14 incl it. Shell: Materia iC. Seams: Long Girth 13. Heads: (a) Ma Location (a) Top, bottom, end (b) Channel If removable, If removable, I4. Design pressur items below to be 15. Safety Valve O 16. Nozzles: Purpose Outer I 17. Inspection Ma	<pre>floating. Hateria al to be completed fo alT.S Nond &amp; Spec. No.) (Min. of Pe terial terial terial to only used (a) completed for all ve utlets: Number (iniet, Drain) Number nholes, No</pre>	1       (Kind & Spec. No.)       Di         2       0.D.       in. This         r inner chambers of jack       Nominal       C         Thickness       in. A         nge Specified)       in. A         H.T.	(Subject to pressure) a Thickness ckness inches or gage. // eted vessels, or channels of // orrosion in. Dia f R.T (b) Material Concial Hemispherical Apex Angle Radius Other fastening Drop Charp F at te Locat	(Welded, Br (Welded, Br Number Type

1 - If Postweid Heat-Treated.

ч

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

Page 166 of 218

	*'		RM NIS-2 H IEET 45 OF T	
⁸ €.			0# 95-0222	•
FORM N-2 NPT CERTIFICATE HOLD	ERS' DATA REPOR	T FOR NUCLEAR PAP	RT AND APPURTEN	IANCES*
As required by the Provi	ision of the AS	E Code Rules, Se	action III, Div	. I
Manufactured & Certified by : <u>General E</u>	lectric Company Nu	clear Energy(GE-NE	)	
<u>2117 Cas</u>	<u>the Hayne Road, Wil</u> Name and Address of	Imington, North Caroli NPT Certificate Bolder	ina_28401	
	DECATUR, AL 3560	9-2000 te Holder for completed	i nuclear component	,
ident:fication - Certificate Holder's S/H	1 of Part : <u>A4779</u>	Nat'l Bd. No	. <u>N/A</u>	
(a) Constructed According to Drawing No:	: <u>768E534G008_Re</u>	<u>v 9</u> Dwg. Prepared by	D.L.Peterson	
(b) Description of Part Inspected: <u>Co</u>	ontrol Rod Drive , Ma	<u> </u>	5	
(c) Applicable ASME Code: Section III ,	Edition <u>1974</u>	Addenda Date <u>W75</u> , O	ase No. <u>N207 1361</u>	2 Class <u>1</u>
REMARKS: <u>Standard part for use with Rea</u>	tctor. Hydrostaticall	v tested at 1825 psi, m	in	
( Brief description of	service for which co	mponent was designed )		
				neet 2 of 2
				, , , , , , , , , , , , , , , , , , ,
1. Cap 166B9274P001				
SA 182 - F316 3/8° thick x 1 1/16° OD		¥.		
2. Indicator Tube 16689313P001				•
SA312 - TP316 3/4° sch 40 - seamless pipe				
0.113° wall thickness 1.065° max. dia.		h		
		Reactor		1
3. Plug 159A1176P001 SA182 - F304		Vessel Thiable		Code Held
1,'4" thick × 0.812" OD				
4. Flange 919D610P001 (719E474)				2
SA182 - F304			<b>X X</b>	·
3.37" thick x 9 5/8" OD		5.4		\ \
5. Base 137C5311P001		<i></i>	3 🗱 🗱 <i>7111</i>	
SA182 - F304 7/8° thick x 2.875° dia.	3-		2 📓 📓 🦷	
	Code Neld -			///////////////////////////////////////
6. Ring Flange 114B5122P002, P003 137C8151P001, P002	P501P102			
SA182 - F304 1* thick x 5.0* OD x 1.75* ID		8		
7. Cap Screw 117C4516P002		5	<b>₩</b> ; <b>*</b> ₩////	
SA193 - B6 6 ea. 1/2° dia. on 4 1/8° bolt circle				
		4		
8. Plug 175A7961P001				
		Code Neld		
SA182 - F304 0.38° thick x 1.307° dia.			8888 1 8888	7
		Rolled before weld		•

## . . . .

-÷ ¥ . . .

• , , ,

1 • • •

.

•

3

,

• 

.

,

	- FORM NITS-2 ATTACH
	SHEET 46 OF 79
	WO# 95-022229-00
FORM N-2 NPT CERTIFICATE HC As required by the Pro	DLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES ovision of the ASME Code Rules, Section III, Div. I
1. Manufactured & Certified by : <u>Genera</u>	al Electric Company Nuclear Energy (GE-NE)
2117 (	Castle Hayne Road, Wilmington, North Caroling 28401 (Name and Address of NFT Certificate Holder)
(b) Manufactured for : <u>TVA</u>	DECATUR. AL 35609-2000 d Address of N Certificate Holder for completed nuclear component )
	S/N of Part : <u>A5101</u> Nat'l Bd. No. <u>N/A</u>
(a) Constructed According to Drawing	No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L. Peterson</u>
(b) Description of Part Inspected:	Control Rod Drive , Model # 7RDB144FG005
(c) Applicable ASHE Code: Section II	II. Edition <u>1974</u> , Addenda Date <u>W'75</u> , Case No. <u>N207 1361-2</u> Class
3. REMARKS: <u>Standard part for use with F</u> (Brief description ,	Reactor. Hydrostatically tested at 1825 psi. min. of service for which component was designed )
· · · · · · · · · · · · · · · · · · ·	Sheet 1 o
the component Design Specification and	Stress Report ).
the component Design Specification and Date: <u>09/26/95</u> Signed	By       Generation and Stress Report II the appurtenance is not include         Generation       By         (NPT Certificate Bolder       Stress QA Representive )         6/16/96       Certification of Authorization No. : <u>NPT N - 1151</u>
the component Design Specification and Date: <u>09/26/95</u> Signed Certificate of Authorization Expires: <u>(</u>	Stress Report ). d <u>GE-NE</u> By <del>Stressentive</del> ) ( NFT Certificate Holder / St QA Representive )
the component Design Specification and Date: <u>09/26/95</u> Signed Certificate of Authorization Expires: <u>(</u>	Stress Report ). <u>GE-NE</u> By <u>Stressentive</u> ) <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u> tion of Design for Appurtenance
the component Design Specification and Date: <u>09/26/95</u> Signed Certificate of Authorization Expires: <u>6</u> Certifica	Stress Report ). d <u>GE-NE</u> By St QA Representive ) 6/16/96 Certification of Authorization No. : <u>NPT N - 1151</u> Stion of Design for Appurtenance SE Company, San Jose, California
the component Design Specification and Date: <u>09/26/95</u> Signed Certificate of Authorization Expires: <u>Certifica</u> Design information on file at <u>G</u> Stress analysis report on file at <u>G</u> DC22A6253 Rev. 2	Stress Report ). <u>GE-NE</u> By <u>Stressentive</u> ) <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u> Stion of Design for Appurtenance <u>NPT N - 1151</u> <u>No. : NPT N - 1151</u> <u>NPT N - 1151</u>
the component Design Specification and Date: <u>09/26/95</u> Signed Certificate of Authorization Expires: <u>Certifica</u> Design information on file at <u>G</u> Stress analysis report on file at <u>G</u> DC22A6253 Rev. 2 Design specification certified by <u>B</u> DC22A6254 Rev 1	Stress Report ). <u>GE-NE</u> By <u>St QA Representive</u> ) <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u> <u>Stion of Design for Appurtenance</u> <u>SE Company, San Jose, California</u> <u>SE Company, San Jose, California</u>
the component Design Specification and Date: <u>09/26/95</u> Signed Certificate of Authorization Expires: <u>Certifica</u> Design information on file at <u>G</u> Stress analysis report on file at <u>G</u> DC22A6253 Rev. 2 Design specification certified by <u>B</u> DC22A6254 Rev 1 Stress analysis report certified by <u>I</u>	GE-NE By SC QA Representive ) ( NPT Certificate Bolder SC QA Representive ) 6/16/96 Certification of Authorization No. : <u>NPT N - 1151</u> Ation of Design for Appurtenance SE Company. San Jose. California SE Company. San Jose. California SE Company. San Jose. California <u>N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> Edward Yoshio Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
the component Design Specification and Date: <u>09/26/95</u> Signed Certificate of Authorization Expires: <u>6</u> Certifica Design information on file at <u>6</u> Stress analysis report on file at <u>6</u> DC22A6253 Rev. 2 Design specification certified by <u>8</u> DC22A6254 Rev 1 Stress analysis report certified by <u>6</u> Cert I. the undersigned, holding a valid com State or Province of <u>North Carolina</u> inspected the part of a pressure vessel and state that to the best of my knowle accordance with the ASME Code Section 1 By signing this certificate. neither the concerning the part described in the Part of a pressure vessel	Stress Report ).
the component Design Specification and Date: <u>09/26/95</u> Signed Certificate of Authorization Expires: <u>6</u> Certifica Design information on file at <u>G</u> Stress analysis report on file at <u>G</u> DC22A6253 Rev. 2 Design specification certified by <u>B</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Cert</u> I. the undersigned, holding a valid con State or Province of <u>North Carolina</u> Inspected the part of a pressure vesse and state that to the best of my knowle accordance with the ASNE Code Section I By signing this certificate. neither the concerning the part described in the Pa shall be liable in any manner for any c	Stress Report ). d <u>GE-NE</u> By State Of Representive ) 6/16/96 Certificate Bolder St QA Representive ) 6/16/96 Certification of Autorization No. : <u>NPT N - 1151</u> Stion of Design for Appurtenance SE Company, San Jose, California SE Company,
the component Design Specification and Date: <u>09/26/95</u> Signed Certificate of Authorization Expires: <u>Certifica</u> Design information on file at <u>General Certifica</u> Design information on file at <u>General Certifica</u> Design specification certified by <u>Beneral Certified</u> DC22A6253 Rev. 2 Design specification certified by <u>Beneral Certified</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Certified</u> Cert I. the undersigned, holding a valid com State or Province of <u>North Caroling</u> inspected the part of a pressure vessel and state that to the best of my knowle accordance with the ASHE Code Section 1 By signing this certificate. neither to concerning the part described in the Pathall be liable in any manner for any pro- connected with this inspection. <u>7/26.1995</u> <u>Mumma</u> Date <u>Certificate</u>	Stress Report ). <u>G_GE-NE</u> By <u>Stress CQA Representive</u> ) <u>6/16/96</u> Certificate Bolder <u>St QA Representive</u> ) <u>6/16/96</u> Certification of Authorization No. : <u>NPTN-1151</u> <u>ation of Design for Appurtenance</u> <u>SE Company. San Jose. California</u> <u>SE Company. San Jose. California</u> <u></u>

...

- 7592-

. . . . . . . .

٠,

); ;

<u>م</u>ي - د د ^{مر} م - د د - د

• 1

FORM N-2 ( back )

..

					Nomina 1		rosion	shells of heat		
. :	Shell:		T . Spec. No. ) (		Thickness	in, A1	lowance i	n. Ofa ft	in. Length	ft
-	Seams:	Long			н.т.'		R.T		Efficiency	
		Girth			н.т.'		R.T		No. of Cours	ies
. 1	Heads:	(a) Hater	ia)			T.S	(b) Ha	terial	T.S:	
			Thickness	Crown Radius			Concial Apex Angle	Hemispherical Radius	Flat Side Diameter (co	e to Press. onv. or conc. )
b1			its used				Other fasten	ing		
				(Material,		Size Number)		(0	becabe or attach sketch )	
•			<u></u>	(Dee	cribe as ogee a	nd weid, bar, etc. ¥	ar give dimensions, i	bolts, describe or storic	n) eight	
									Impact	ft-1b
3.	Jesign (	2 pressure		1250	ps	i at	575	_F at tem	p of	°F
:en	s 9 and	10 to be	completed	for tube	sections					
•	Tube Sh	eets: Sta	ationary.	Material		01a	•		in. Attach	nent
		Flo	pating.	Material	(19nd & Sp	•c. No.) Día	(Subject to pressur	• . Thickness	in. Attach	(Weided, Boi nent
1.	Tubes:	Materia]	_		0.D.	in. Thic	kness	inches or gage, N	umber	Туре
					,					(St. or U
ten	s 11 -	14 incl.	to be comple	eted for	inner cham	bers of jacke	ted vessels, o	r channels of h	eat exchangers.	
		()Sr	nd & Špec. No. ) (	Min, of Ringi	e Specified) 1	in. Al			in. Lengtl	
	Seams:	Long			1				Efficiency	
									No. of Cour:	
•	Heads:	(a) Hate	rial			T.S	(b) Ha	terial	T.S	···
2	Top.bot	tion tom.ends	Thickness		Radius	<u> </u>	Apex Angle	Radius	Flat Side Diameter (co	
	If remo	vable, bo	lts used (a	)	_(b)	(c)	Other	fastening		
								Drop V		·
		2						۵	Impact	•
		pressure						Fattem	p of	F
			mpleted for							
	Safety	Valve Out	lets: Numb	er		Size		Locati	on	
5.	Nozz les	: Purpose (in Outlet, Dna	-	mber	Dia, or Size	Туре	Material	Thickness	Reinforcement Material	How Attached
		<u> </u>								
	Inspect Opening	ion Hanh s: Hand Threa	oles, No. holes, No. aded, No.			Size Size	L	ocation ocation ocation		
	Support								Attached	
		weld Heat-Trea her internal or (	ted. Internal pressure	wth coincider	x temperature w	hen applicable.				

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

1. Hanufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u>

1

51

<u>2117 Castle Hayne Road, Wilmington, North Carolina 28401</u> ( Name and Address of NPT Certificate Bolder )

4

FORM NIS-2 ATTACHMENT

WO#95-022229-001

SHEET 47 OF 79

(b) Manufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> (Name and Address of N Certificate Holder for completed nuclear component)

2 : dentification - Certificate Holder's S/N of Part : <u>A5101</u> Nat'l Bd. No. <u>N/A</u>

(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson

(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>

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

3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.</u> (Brief description of service for which component was designed)

Sheet 2 of 2 1. Cap 166B9274P001 SA182 - F316 3/8" thick x 1 1/16" OD 2. Indicator Tube 16689313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.065° max. dia. Reactor 3. Plug 159A1176P001 Vessel SA182 - F304 Thimble Code Neld 1/4" thick x 0.812" OD P501P102 2 4, Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. Code Weld 6. Ring Flange 114B5122P002, P003 P501P102 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID 8 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2º dia. on 4 1/8º bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" dia. Code Neld P507P102 6 Rolled before MAIN 9. Nut 137C5934P001 9 XM - 19 SA479 1.30" thick x 2.62" dia, Page 170 of 218

·

.

· · ·

• • •

•

	FORM NIS-2 ATTACHMENT SHEET 48 OF 79
	WO# 95-022229-001
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I
:.	Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
	2117 Castle Hayne Road, Wilmington, North Carolina 28401 ( Name and Address of NFT Certificate Bolder )
	(b) Manufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> (Name and Address of N Certificate Bolder for completed nuclear component)
2.	[dentification - Certificate Holder's S/N of Part : <u>A4384</u> Nat'l Bd. NoN/A
•••	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D. L. Peterson</u>
	(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
	(c) Applicable ASME Code: Section III, Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3.	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed )
	Sheet 1 of 2
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ).
	The component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Signed Stress Report ). Certificate of Authorization Expires: <u>6/16/96</u> Certification of Xuthorization No. : <u>NPT N - 1151</u>
	the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Sc QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u>
	the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Solution Stress Report (SC QA Representive )
	the component Design Specification and Stress Report }. Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Stressentive ( NPT Certificate Bolder ( SC QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Muthorization No. : <u>NPT N - 1151</u> Certification of Design for Appurtenance
	the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Solution (SC QA Representive ) ( NPT Certificate Bolder (SC QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Nutborization No. : <u>NPTN-1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose, California</u>
	the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Sc QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Xuthorization No. : <u>NPTN-1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2
	the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By Sc QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN - 1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1
	the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By (SC QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPTN-1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose</u> . California Stress analysis report on file at <u>GE Company. San Jose</u> . California DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>MO18646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>North Carolina</u> and employed by <u>Department of Labor of State Of North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>State of North Carolina</u> have and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied. Concerning the part described in the Partial Data Report on partial Data Report on profile the Section of III.
	the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By (SC QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Xuthorization No. : <u>NPTN - 1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the Mational Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Morth 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>State of North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>Assection State on Province</u> of <u>North Carolina</u> and employed by <u>Department of Labor</u> on <u>State of North Carolina</u> have inspected the part of a pressure vessel described on this Partial Data Report on <u>Assection Partial</u> Data Report on <u>Assection Partial</u> Data Report on <u>Assection Part in Bactorian</u> and employed by Department of <u>Assection</u> and the this Partial Data Report on <u>Assection Partial</u> Data Report on <u>Assection Part in Bactorian</u> and employed and belief, the NPI Certificate Holder has constructed this part in Bactorian and the part of <u>Appendice</u> and <u>Assection</u> and <u>Assection Partial</u> Data Report on <u>Assection Certificate</u> in <u>Assection III</u> .

.

.

FORM N-2 ( back )

. ..

2.

----

¥.

<b>.</b>	Shell:		a Ì				in. A	orrosion Nowance	in. Dia	_ ft in	. Length	ft
•	Seams:	Long _				н.т		R.T.		Effi	ctency	x
		Girth				н.т.'		R.T.			of Course	s
	deads:	(a) Ma	terial _			<u> </u>	T.S	(b) K	aterial		T.S	<u> </u>
a)	Location Bottom.	n ( Top Ends )	Thick		Radius	Radius	Ratio	Concial Apex Angle	Radius			to Press. v. or conc. )
5)	If remov	vable,	bolts use	ed		<del>,</del>	·	Other faster	ning		·	
	Jacket (	Closure	:		( Materia	L Spec. No., 1.S.	, Size Number }			Cescrice or and	ich skeich )	
-					(D	echbe as ogee a	nd weld, ber, etc. 1	l bergwe dimensions, .		op Weight arpy Impact _		ft-1b
	Design ;	pressur	e		1250	ps	i at	\$75	_°F at	temp of		°F
						sections		<u></u>				
	Tube Sh	eets:	Stationa Floating	гу. М. . К	ateríal ateríal	(Kind & Sp	01: bec. No. ) 01:	ð. (Subject to pressu ð.	Thickne Thickne	ss 1n.	Attachme	nt(Welded, Bole
								ckness				
		14 (00)	to be	10	and free	inner cham	bers of tack	eted vessels.	or change le	of heat excha-	ngers.	
ten	is <u>[1</u> -	14 1001		compile	ted for	Thinter critical			Ji Ghanna 15	VI INCLE CALING		
_		Nateri	- <u></u> 1.			Nominal Thickness		orrosion llowance				ft
-	Shell:	Materi	al	T.S =_ No.) (N	An. of Rang	Nominal Thickness • Specified) 1 H.T.	in, A		in, Día	_'ft in	Length	
-	Shell:	Materi Long _	a]	T.S No.)(k	An. of Rang	Nominal Thickness Specfed) H.T.	in, A	orrosion 11owance R.T.	in, Día	_'ft in	Length	x
•	Shell: Seams:	Materi Long _ Girth	a] {Kind & Spec	T.S =_ No.) (k	Ain. of Rang	Nominal Thickness Poented) H.T. H.T.	C in. A	orrosion 11owance R.T.	in. Dia	_'ft in Effi No	Length clency of Course	X
a)	Shell: Seams: Heads: Loca Jop.bot	Materi Long _ Girth (a) Ma tion	al (Kind & Spec terial Thick: s	T.S No.) (N	An. of Pans	Nominal Thickness Specied) H.T. H.T. Knuckle Radius	T.S Ratio	orrosion llowance R.T. R.T. (b) M Concial Apex Angle	in. Día ateríal Hemispherin Radius	_'ft in Effi No cal Flat Diamete	Length clency of Course T.S Side r { con	sx to Press. v. or conc. )
(a)	Shell: Seams: Heads: Loca Jop.bot	Materi Long _ Girth (a) Ma tion	al (Kind & Spec terial Thick: s	T.S No.) (N	An. of Pans	Nominal Thickness Specied) H.T. H.T. Knuckle Radius	T.S Ratio	orrosion llowance R.T. R.T. (b) Ha Concial	in. Día ateríal Hemispherin Radius	_'ft in Effi No cal Flat Diamete	Length clency of Course T.S Side r { con	X s to Press. v. or conc. }
(a)	Shell: Seams: Heads: Loca Jop.bot	Materi Long _ Girth (a) Ma tion	al (Kind & Spec terial Thick: s	T.S No.) (N	An. of Pans	Nominal Thickness Specied) H.T. H.T. Knuckle Radius	T.S Ratio	orrosion llowance R.T. R.T. (b) M Concial Apex Angle	in. Dia aterial Hemispherin Radius r fastening Dr	in Effi No cal Flat Diamete  op Weight	Length clency of Course T.S Side r { cont cont cont cont cont cont cont cont	x s to Press. v. or conc. ; th startch ;
a)	Shell: Seams: Heads: Loca Top,bot Channel If remo	Materi Long _ Girth (a) Ma tion tom,end vable.	al (Kind & Spece terial Thicks s bolts use 2	T.S No.) (N	An. of Pans	Nominal Thickness • Specied) H.T. H.T. Knuck le Radius (b)	T.S Elliptical Ratio (c)	orrosion llowance R.T. R.T. (b) M Concial Apex Angle	in. Dia aterial Hemispherin Radius r fastening Ch	ft in Effi No cal Flat Diamete  op Weight arpy Impact	Length clency of Course T.S Side r { cont cont cont cont cont cont cont cont	x s to Press. v. or conc. ; th startch ;
	Shell: Seams: Heads: Loca Jop.Sot Channel If remo Design	Materi Long Girth (a) Ma tion tom.enc vable.	al (Kind & Spece terial s bolts us: ee	T.S 	Crown Radius	Nominal Thickness • Spected) H.T. H.T. Knuck le Radius (b)	T.S Elliptical Ratio (c) psi at	orrosion llowance R.T. R.T. (b) M Concial Apex Angle	in. Dia aterial Hemispherin Radius r fastening Ch	in Effi No cal Flat Diamete  op Weight	Length clency of Course T.S Side r { cont cont cont cont cont cont cont cont	x s to Press. v. or conc. ) h simich) ft-lb
	Shell: Seams: Heads: Loca Top.bot Channel If remo Design Is below	Materi Long _ Girth (a) Ma ton,end vable, pressur to be	al (Rnd & Spece terial Thicks bolts use e completer	T.S 	Crown Radius	Nominal Thickness e Specied) H.T. H.T. Knuck le Radius (b) (b)	T.S Elliptical Ratio (c) psi at applicable.	orrosion llowance R.T. R.T. (b) Ma Concial Apex Angle Other	in. Dia aterial Hemispherin Radius r fastening Ch Ch F at	ft in Effi No. cal Flat Diamete  op Weight arpy Impact temp of	. Length clency of Course T.S Side r ( con  seche or attec	x s to Press. v. or conc. ) h simich) ft-lb
	Shell: Seams: Heads: Loca Top.bot Channel If remo Design Is below	Materi Long _ Girth (a) Ma ton,end vable, pressur to be	al (Rnd & Spece terial Thicks bolts use e completer	T.S 	Crown Radius	Nominal Thickness e Specied) H.T. H.T. Knuck le Radius (b) (b)	T.S Elliptical Ratio (c) psi at applicable.	orrosion llowance R.T. R.T. (b) M Concial Apex Angle	in. Dia aterial Hemispherin Radius r fastening Ch Ch F at	ft in Effi No. cal Flat Diamete  op Weight arpy Impact temp of	. Length clency of Course T.S Side r ( con  seche or attec	x s to Press. v. or conc. ) h sintch) ft-lb.
(a) (b) (tem 5.	Shell: Seams: Heads: Loca Top.bot Channel If remo Design Is below	Materi Long Girth (a) Ma tion tom,end vable, pressur to be Valve C	al (Kind & Spece terial Thick, s bolts us; e completer utlets: e (niet,	T.S 	Crown Radius	Nominal Thickness e Specied) H.T. H.T. Knuck le Radius (b) (b)	T.S F.S Elliptical Ratio (c) psi at applicable. Size	orrosion llowance R.T. R.T. (b) M Concial Apex Angle  Other	in. Dia aterial Hemispherin Radius r fastening Ch Ch F at	ft in Effi No cal flat Diamete  op Weight arpy Impact temp of cation Reinfo	Length     ciency of Course     T.S,     Side     r ( con     r )     recenter attack	x s to Press. v. or conc. ) h simich) ft-lb
(a) (b) (b)	Shell: Seams: Heads: Loca Jop, Sot Channel If remo Design So Delow Safety Nozzles	Materi Long Girth (a) Ma tion tom,end vable. pressur to be Valve C : Purpose Outer,	al	T.S No.) (k ness  ed (a)  Numbe 	An of Rang	Nominal Thickness e Specfied) H.T. H.T. Knuck le Radius (b) (b) sels where Dia or Size	r.s F.S Elliptical Ratio  (c) psi at applicable. Size Type	Orrosion Ilowance R.T R.T (b) Ma Concial Apex Angle Other Other	in. Dia aterial Hemispheri Radius r fastening Dr Ch F at Lo Theore	ftin Effi No cal Flat Diamete  op Weight arpy Impact temp of cation cation	. Length clency of Course T.S Side r ( con 	X s to Press. v. or conc. )ft=1bFF How Attached
<ol> <li>(a)</li> <li>(b)</li> <li>4.</li> <li>11 tem</li> <li>5.</li> <li>6.</li> <li>7.</li> </ol>	Shell: Seams: Heads: Loca Jop.5ot Channel If remo Design is below Safety	Materi Long _ Girth (a) Ma tion tom,end vable. pressur to be Valve ( : Purpose Outer,  ion Ma s: Ha	al (Kind & Spece terial bolts use bolts use completee utlets: e(Nec, Drawn)  nholes,	T.S No.) (k  ness  ed (a)  Numbe  Numbe  Numb	An of Rang	Nominal Thickness e Specied) H.T. H.T. Knuck le Radius (b) Sels where Da. or Size	T.S T.S Elliptical Ratio (c) psi at applicable. Size  Size Size	Orrosion Ilowance R.T R.T R.T (b) Material Material	in. Dia aterial Hemispherin Radius r fastening children F at Low Low Low Low Low	ft in Effi No cal flat Diamete  op Weight arpy Impact temp of cation Reinfo	Length	X s to Press. v. or conc. } ft=1b ft=1b ft=1b F How Attached
1. 2. 3. (b) 4. 5. 6.	Shell: Seams: Heads: Loca Jop.bot Channel If remo Design Solow Safety Nozzles Inspect	Materi Long Girth (a) Ma tion tom,end vable. pressur to be Valve C : Purpose Outer, ion Ma S: Ha	al	T.S No.) (k ness  ed (a) d for  Numbe  No.  No.  No.	An of Rang	Nominal Thickness e Specfed) H.T. H.T. Knuck le Radius (b) (b) Sels where Da. or Size	r.s r.s Elliptical Ratio  (c) psi at applicable.  Size Size Size	orrosion llowance R.T R.T (b) Ma Concial Apex Angle Other Other	in. Dia	ftin Effi No cal flat Diamete  op Weight arpy Impact temp of cation Reinfo	Length     clency of Course:     T.S,     Side     r ( con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con     con	X s to Press. v. or conc. } ft=1b ft=1b ft=1b F How Attached

Page <u>172 of 218</u>

Ŷ FORM NITS-2 ATTACHMENT SHEET 49 OF 79 WD # 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) 2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) DECATUR, AL_35609-2000 (b) Manufactured for : _ TVA ( Name and Address of N Certificate Holder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : A4384 Nat'l Bd. No. N/A (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson (b) Sescription of Part-Inspected: <u>Control Rod Drive</u>, Model # 7RDB144FG005 (c) Applicable ASME Code: Section III. Edition 1974, Addenda Date W75. Case No. N207 1361-2 Class 1 3. REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 2 of 2 🖡 1. Cap 16689274P001 SA182 - F316 3/8" thick x 1 1/16" OD 2. Indicator Tube 166B9313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113' wall thickness 1.065° max. dia. 1 Reactor 3. Plug 159A1176P001 Vessel SA182 - F304 Thimble Code Weld 1/4" thick x 0.812" OD P50YP102 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. Code Weld 6. Ring Flange 11485122P002, P003 PSOYP102 137C8151P001, P002 SA182 - F304 1° thick x 5.0° OD x 1.75° ID 8 7. Cap Screw 117C4516P002 SA 193 - B6 6 ea. 1/2' dia. on 4 1/8' bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" dia. Code Weld P50YP102 6 Rolled before weld 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia. Page 173 of 218

FORM NIS-2 ATTACHMENT SHEET 50 OF 79 WO#95-022229-001 302C.1885-FORM N-2 FT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM) 1. Kanufactury 2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of MPT Certificate Holder ) ۵ Chattanooga, Tennessee 37402-2127 (b) Harfactured for : _TVA ( Home and Address of N Certificate Holder for completed nuclear component ) cation - Certificate Holder's S/N of Part ; _A3247_ -2. Ident _ Nat'i Bd. No. __<u>N/A</u>_ nstructed According to Drawing No: <u>788E534G008_Ray 9</u> Dwg. Prepared by <u>D.L. Patarson</u> scription of Part Inspected: <u>Control Rod Drive. Model # 7RDB144FG005</u> Applicable ASHE Code: Section III , Edition <u>1974</u>, Addenda Date <u>W75</u>, Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REWARKS: Standard part for use with Reactor, Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtanance as defined in the code conforms to the rules of construction of the ASME Code Section 111. ( The applicable Designed Specification and Stress Report are not the responsibility of the MPT Certificate Holder for parts. An MPT Certification Holder for appurtanances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). SCOL Representive ) Signed <u>GE-NEBG-NE&CM-OA</u> Date: <u>11/19/92</u> ( MPT Certificate Holder ) Certificate of Authorization Expires: 6/18/93 Certification of Authorization No. : _______ Certification of Design for Appurtenance GE Company, San Jose, California Design information on file at ____ Stress analysis report on file at _____ GE Company, San Jose, California DC22A6253 Rev. 1 DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I, the undersigned olding a valid commission by the Mational Board of Boiler and Pressure Inspectors and/or the State or Province <u>North Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have inspected the part. a pressure vessel described in this Partial Data Report on <u>1109</u>, <u>1799</u>, <u>1792</u>, and state that to the best of my knowledge and belief, the XPT Certificate Holder has constructed this part in and state that to the best of my knowledge and bester, the Ari Certificate holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. Jerome P Everes NC 1231, Ohlo, WC 3686 PA 11/19 Inspector's Signature National Board, State, Province And No. Date *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (+7/++) Page 174 of 218 

6022.1887

	4-8 Incl. to be	-						the second second second second second second second second second second second second second second second se	
	(ROM	E Spec. No. ) (	Min, er Hange	apecified }					ength ft
. :	ieams: Long		ł	՝		R.T. (		Efficie	ncy?
	⁶ 6irth								Courses,
. 1					T.S	(b) X	sterial	T.	s
	Location ( Top Bottom, Ends )	- Thickness	Crown Radius	Knuck le Radius	Elliptical Ratio	Concial	Hantenharica	l Flat	Side to Press. ( conv. or conc. )
					<del>د</del>				
	lf removable, bol		I Manhadad	Bons, Ha., T.S.	Stee Number 1		n1ng	(Describe or altach s	Autch)
	Jacket Closure: _		(Dee	erbe sa egee sr	nd wold, bar, etc. #1	ver give dimensions,	I balls, describe or sin	Noh)	
							Char	py Impact	ft-1b
	2 Design pressure		1250	ps	1 at		Fat t	emp of	°۶
	s 9 and 10 to be							<u></u>	<u> </u>
		•			Dia	•	Thickness	in. At	tachment
•	E1/	at ing	Natarial	(10nd & 8p	46. He.)	(Bubjeel to press	(*)	In. At	tachment
•	IUDES: MALEFIAI			0.0.			-		Type (Sec. or U
	# 11 - 14 incl. 1	to be comp	leted for	inner chas	bers of jacks	ted vessels,	or channels of	heat exchange	<b>ITS.</b>
				Nominal	Cc	rrosion			
•	Shell: Material	T. 1 & Spee, He. )	. 5 . (140), of Pane	Thickness (Decided)	in. Al	lowance	in. Die	ft In.	length ft
	Seams: Long					R.T.		Effici	ency
•									Courses
•	Heads: (a) Mate	rial							
i)	Location Top, bottom, ends			Radius	Ratio -	Apex Angle	« Radius	Diameter	Side to Press. ( conv. or conc. )
D}	Channel If romovable, bo	Its used (	•)		(c)	Oth	er fastening _		
						4	Drog Char	(Deec Veight py Impact	ft-1
	2 Design pressure				psi at		F at 1	emp of	•F
_	as below to be co				applicable.	·····			
	Safety Valve Out	<u> </u>	ber		Size		Loca	ition	
	Nozzles: Purpose (1							Paintero	
-	Cutter, Dra		umber	Dia, or Size	а Тура	Materia	d Thiskness	Material	How Atlached
			······						
		· · ·	·						
•	Inspection Manh Openings: Hand	voles, No Sholes, No	:		5128		Location		<u></u>
								,	
3.	Supports: Skir	t	Lugs	( h)	Legs	( humber 1	Other	Atta	(Where & How)
			•1	(numoer)		1	( order	,	1
	1 - E Postweid Heat-Tre 2 - List other Internal or		re with coincide	ent lemperature	when applicable,				
	-		•	•		•	- •	•	
					Dago 1		218		
					raut				

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

FORM NIS-2 ATTACHMENT

WO#95-022229-001

SHEET 51 OF 79

1. Kanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM) (b) Hanufactured for : __TVA Chattanooca, Tennessee 37402-2127 ( Name and Address of N Cartificate Holdar for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : _A3247_ Nat'l Bd. No. ___N/A (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dug. Prepared by D. L. Peterson. (b) Description of Part Inspected: <u>Control Rod Drive</u>, Model # 7RDB144FG005 (c) Applicable ASHE Code: Section III, Edition <u>1974</u>, Addende Date <u>W75</u>, Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 18689274P001 SA182 - F304 3/8" thick x 1 1/16" OD 2. Indicator Tube 16689313P201 SA312-TP316 3/4° son 40 - seamless pipe 0.113° wall thickness 1.065" max. die. 1 Reseter 3. Plug 159A1176P001 Yessel Code Weld SA182-F304 Thinkle 1/4" thick x 0.812" OD P50YP102 2 4. Flange 9190610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. Cede Held 6. Ring Flange 11485122P002, P003 PEOYP102 137C8151P001, P002 SA182 - F304 1" Block x 5.0" ( 1.75"10 8 7. Cap Screw 117C4516P002 \$A193 - 86 6 ea. 1/2" dia. on 4 1/8" bolt circle 8. Plug 175A7981P001 SA182 - F304 0.38" thick x 1.307" die. Codo Nold PSOYP102 6 Rollod botoro wold 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia. Page 176 of 218

× 44 - 44 -

, * • • • • •

8.0 6.00 1

· · ·

4 v . .

• 

	FORM NIS-2 ATTACHMEN
	SHEET 52 OF 79
	WO# 95-022229-001
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
	As required by the Provision of the ASHE Code Rules, Section III, Div. I
	Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
	<u>2117 Castle Hayne Road, Wilmington, North Carolina 28401</u> ( Neme and Address of MPT Certificate Bolder )
	(b) Manufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> ( Name and Address of N Certificate Holder for completed nuclear component )
	Identification - Certificate Holder's S/N of Part : <u>A4836</u> Nat'l Bd. No. <u>N/A</u>
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L. Peterson</u>
	(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
	(c) Applicable ASHE Code: Section III . Edition <u>1974</u> . Addenda Date <u>W75</u> . Case No. <u>N207 1361-2</u> Class
i. i	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u>
	(Brief description of service for which component was designed )
	Sheet 1 of 2
9	he component Design Specification and Stress Report ). ate: <u>09/26/95</u> Signed <u>GE-NE</u> By SC QA Representive ) ( NPT Certificate Holder ) SC QA Representive ) ertificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u>
	Certification of Design for Appurtenance
	Certification of Design for Appurtenance Design information on file at <u>GE Company, San Jose, California</u>
:	Design information on file at <u>GE Company, San Jose, California</u>
	Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1
	Design information on file at <u>GE Company. San Jose, California</u> Stress analysis report on file at <u>GE Company. San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
	Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1
	Design information on file at <u>GE Company. San Jose, California</u> Stress analysis report on file at <u>GE Company. San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure inspectors and/or the
	Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>Party</u>
	Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection L. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>State of North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>State of North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>State of North Carolina</u> have incordance with the ASME Code Section III.
	Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>State of North Carolina</u> have and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, soncerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer
	Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> D0222A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> D0222A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Morth 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>State of North Carolina</u> have inspected the part of the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASNE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, soncerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
	Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> D0222A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> D0222A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Morth 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>State of North Carolina</u> have and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASNE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, soncerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
	Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Stidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection 1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Month Carolina</u> and employed by <u>Department of Labor</u> of <u>State of Nonth Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>State of North Carolina</u> have inspected with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be if able in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>7/265</u> , <u>1975</u> <u>Lucase</u> <u>Ecuse</u> <u>NC 1231, Ohio, WC 3686 PA</u> National Board, State, Province And No.
	Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Stidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection 1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Month Carolina</u> and employed by <u>Department of Labor</u> of <u>State of Nonth Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>State of North Carolina</u> have inspected with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be if able in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>7/265</u> , <u>1975</u> <u>Lucase</u> <u>Ecuse</u> <u>NC 1231, Ohio, WC 3686 PA</u> National Board, State, Province And No.
	Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection 1, the undersigned, holding a valid commission by the National Board of Boiler and Pressure inspectors and/or the inspected the part of a pressure vessel described in this Partial Data Report on <u>State of North Carolina</u> have incordance with the ASHE Code Section III. by signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the inspect on this employer thal blable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>7/26</u> , <u>1975</u> <u>furchs</u> <u>CEAUCE</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>Date</u> <u>Inspector's Signature</u> <u>11</u> , (2) information in 1-2 on this Data poptied (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data popties is in coroned in Item 3. "REMARKS". (17/10)
	Design information on file at <u>GE Company, San Jose, California</u> Stress araiysis report on file at <u>GE Company, San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection 1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>Carolina</u> have inspected the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASKE Code Section III. by signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer thal be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>7/262, 1975</u> <u>Lucous</u> <u>E</u> <u>E</u> <u>Nor</u> <u>Noc 1231, Ohio, WC 3686 PA</u> Inspector's Signature <u>National Board</u> , State, Province And No. Pplemental sheets in form of lists, sketches or drawing may be used Ovided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data port is included on each sheet, and (3) each sheet is numbered and imber of sheets is recorded in Item 3. "REMARKS".

FORM N-2 ( back )

. .

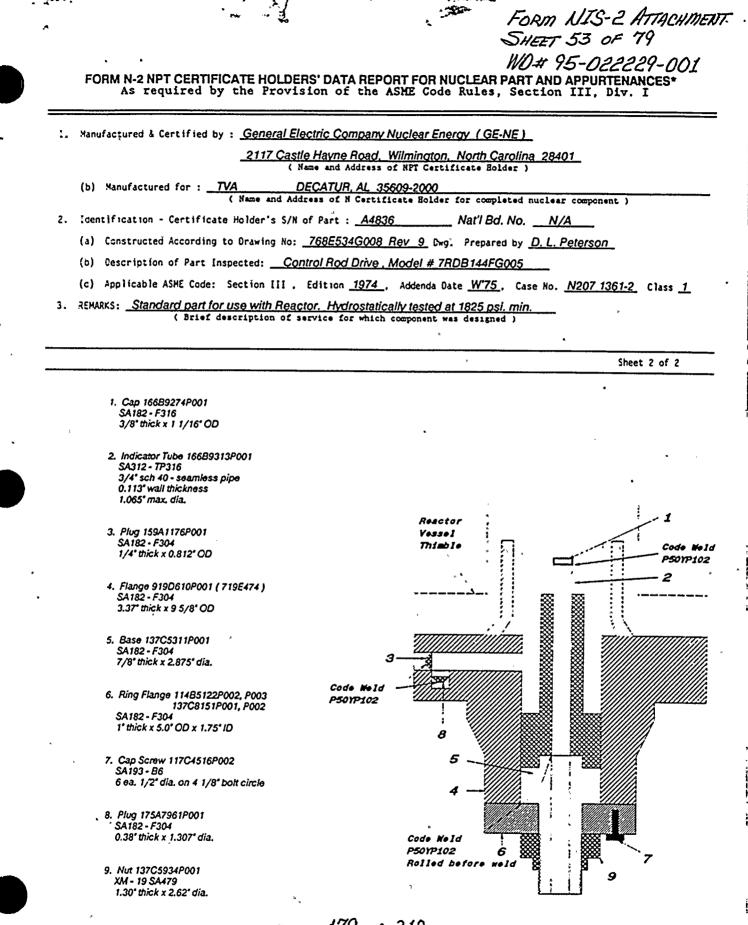
. . . ..

.1

1-

Shell: M	(ateríal T. (Kind & Spec. No.)				rroston lowance i s	in. Dia ft	in. Le	ength ft
:eams: L	.ong		н.т		R.T		Efficien	icy
	iirth		1					lourses
	(a) Materíal							
Location		Crown	Knuck le	Elliptical	Concial Apex Angle	Hemisphericai	Flat	Side to Press. ( conv. or conc. )
c) if remova	abie, bolts used _				Other faster	ning		
	losure:	{ Material,	Spec. No., T.S.	Size Number (		(0	escribe or attach sk	atch )
		(D++	cnbe as ogee ar	nd wold, bar, etc. # I	bar give dimensions, i	f bolts, describe or snatcr Drop W		
					*	Charpy	Impact	
. Design pr	2 ressure	1250	ps	l at	575	_F at tem	o of	°F
ens 9 and 1	10 to be completed	for tube :	sections					
. "ube Shee	ets: Stationary.	Material		Dia	•	Thickness	in. Att	achment
4	ets: Stationary. Floating.	Hateria)	(Kind & Sp	rc. No. 1 Dta	( Subject to pressur	Thickness	ín. Att	(Welded, Bo
	laterial							
, 'SUESI .			····					(Sr. or U
ens 11 - 14	4 incl. to be comp	leted for	inner cham	ers of jacke	ted vessels, o	or channels of h	eat exchanger	<u>-</u>
	(Kind & Spec. No.)	( Min. of Range	Specified }	•				ength ft
. Seams: l	(Kind & Spec. No.) Long Girth	( Min. of Range	Specified } 1 H.T H.T	• 	R.T.		Efficien	ncy
. Seams: l	(Kind & Spec. No.)	( Min. of Range	Specified } 1 H.T H.T	• 	R.T.		Efficien	ncy
. Seams: U ( feads: ( 'Locat: a) Top.bott:	(Kind & Spec. No.) Long Girth (a) Material ton Thickness pm.ends	(Min. of Range	Notes that is a constrained if the second of	T.S Elliptical Ratio	R.T. R.T. (b) Ha Concial Apex Angle	aterial Hemispherical Radius	Efficien No. of C T.S Flat Diameter 	ncy
. Seams: U ( feads: ( 'Locat: a) Top.bott:	(Kind & Spec. No.) Long Girth (a) Material ton Thickness	(Min. of Range	Notes that is a constrained if the second of	T.S Elliptical Ratio	R.T. R.T. (b) Ha Concial Apex Angle	aterial Hemispherical Radius	Efficier No.of C T.S Flat Diameter 	Courses S Side to Press. ( conv. or conc. )
. Seams: U ( feads: ( 'Locat: a) Top.bott:	(Kind & Spec. No.) Long Girth (a) Material ton Thickness pm.ends	(Min. of Range	Notes that is a constrained if the second of	T.S Elliptical Ratio	R.T. R.T. (b) Ha Concial Apex Angle	Aterial Hemispherical Radius  fastening	Efficier No. of C T.S Flat Diameter 	Courses Side to Press. ( conv. or conc. ) e or attach statch)
. Seams: U ( feads: ( 'Locat: a) Top.bott:	(Kind & Spec. No.) Long Girth (a) Material ton Thickness pm.ends	(Min. of Range	Specified) H. T H. T Knuck le Radius  (b)	T.S Elliptical Ratio (c)	R.T. R.T. (b) Ha Concial Apex Angle Other	Aterial Hemispherical Radius fastening Drop W Charpy	Efficier No. of C T.S Flat Diameter  eight Impact	Courses Side to Press. ( conv. or conc. ) e or attach swetch) ft-1b
Seams: U 'eads: ( 'Locat: ) Top.botto ) Channel If remove	(Kind & Spec. No.) Long Girth (a) Material ton Thickness om.ends able, boits used (2 2	(Min. of Range	Specified) H. T H. T Knuck le Radius  (b)	T.S Elliptical Ratio	R.T. R.T. (b) Ha Concial Apex Angle Other	Aterial Hemispherical Radius  fastening	Efficier No. of C T.S Flat Diameter  eight Impact	Courses Side to Press. ( conv. or conc. ) e or attach statich) ft-lb
. Seams: U ( -feads: ( ) Top.botto ) Channel If remove . Design pr	(Kind & Spec. No.) Long Girth (a) Material ton Thickness om.ends able, boits used (2 2	(Min. of Range Crown Radius	Specified) H.T H.T Knuck le Radius  (b)	T.S Elliptical Ratio (c)	R.T. R.T. (b) Ha Concial Apex Angle Concial Apex Angle	Aterial Hemispherical Radius fastening Drop W Charpy	Efficier No. of C T.S Flat Diameter  eight Impact	Courses Side to Press. ( conv. or conc. ) e or attach swetch) ft-1b
. Seams: U ( eads: ( 1ocat: a) Top.botto b) Channel If remova . Design pr tems pelow (	(Kind & Spec. No.) Long Girth (a) Material ton Thicxness om.ends able, bolts used (a ressure	(Min. of Range Crown Radius a)	Specified) H.T H.T Knuck le Radius  (b) e ls where a	T.S Elliptical Ratio (c) psi at applicable.	R.T. R.T. (b) Ha Concial Apex Angle Other	Aterial Hemispherical Radius fastening Drop W Charpy F at tem	Efficier No. of C T.S Flat Diameter  eight Impact p of	Incy
Seams: U -feads: ( 10cat: 1) Top.botto 0) Channel If remova 0esign pr cems pelow ( Safety Va	(Kind & Spec. No.) Long Girth (a) Material (a) Material (a) Material ton Thicxness m.ends able, bolts used (a ressure ressure to be completed for alve Outlets: Numb Purpose (hole,	(Min. of Range Crown Radius a)	Specified) H.T H.T Knuck le Radius  (b) e ls where a	T.S. Elliptical Ratio 	R.T. R.T. (b) Ha Concial Apex Angle Other	Aterial Hemispherical Radius fastening Drop W Charpy F at tem	Efficier No. of C T.S Flat Diameter  eight Impact p of	Incy
. Seams: U ( eads: ( 2ocat: a) Top.botto b) Channel If remova . Design pu tems pelow f . Safety V . Nozzles:	(Kind & Spec. No.) Long Girth (a) Material (a) Material (a) Material (a) Material for Thickness om.ends able, bolts used (a ressure ressure to be completed for alve Outlets: Numl Purpose (hast, Outlet, Oran) No on Manholes, No.	(Min. of Range Crown Radius a) r all vess ber ymber	Specified)           1           H.T.           H.T.           Knuck le           Radius	T.S Elliptical Ratio (c) opplicable. Size Size	R.T. R.T. (b) Ha Concial Apex Angle Other Other	Aterial Hemispherical Radius fastening Drop W Charpy °F at tem Location	Efficier No. of C T.S Flat Diameter  eight Impact p of Reinforcerm Maternal	acy
. Seams: U ( feads: ( 'Locat: a) Top.botto b) Channel If remova . Design pro- tems pelow f . Safety V . Nozzles:	(Kind & Spec. No.) Long Girth (a) Material (a) Material (a) Material (a) Material for Thickness com.ends able, bolts used (a ressure ressure to be completed for alve Outlets: Numb Purpose (Med. Cutlet, Dran) No on Manholes, No. : Handholes, No.	(Min. of Range Crown Radius 	Specified)           1           H.T.           H.T.           Knuck le           Radius	T.S Elliptical Ratio (c) osi at spplicable. Size  Size Size	R.T R.T (b) Ha Concial Apex Angle  Other  Maternal	Aterial Hemispherical Radius fastening Drop Wi Charpy °F at tem  Location .ocation	Efficien Mo. of C T.S Flat Diameter  eight Impact p of Peirforcem Maternal	ncy Courses Side to Press. ( conv. or conc. ) e or attach stack) ft=1b ft=1b F ent How Attached
. Seams: U feads: ( 20cat: a) Top.botto b) Channel If remova . Design pr tems oelow f . Safety Vi . Nozzles: . Inspection Openings	(Kind & Spec. No.) Long Girth (a) Material (a) Material (a) Material (a) Material ton Thicxness able, bolts used (a ressure able, bolts used (a ressure to be completed for alve Gutlets: Numt Purpose (hiet, Outlet, Oran) No on Manholes, No. Threaded, No.	(Min. of Range Crown Radius a) a) r all vess ber umber	Specified)           1           H.T.           H.T.           Knuck le           Radius	T.S Elliptical Ratio (c) osi at applicable. Size  Size Size	R.T. R.T. R.T. (b) Ha Concial Apex Angle Other Other	Aterial Hemispherical Radius fastening Drop W Charpy F at tem Location  cocation .ocation	Efficier No. of C T.S Flat Diameter  eight Impact p of Reinforcem Maternal	Incy
. Seams: U feads: ( 1ocat: a) Top.botto b) Channel If remova . Design pro- tems below f . Safety Vi . Nozzles: . Inspectio	(Kind & Spec. No.) Long Girth (a) Material (a) Material (a) Material (a) Material ton Thicxness able, bolts used (a ressure able, bolts used (a ressure to be completed for alve Gutlets: Numt Purpose (hiet, Outlet, Oran) No on Manholes, No. Threaded, No.	(Min. of Range Crown Radius a) a) pr all vess ber ber unber	Specified)           1           H.T.           H.T.           Knuck le           Radius	T.S Elliptical Ratio (c) osi at applicable. Size  Size Size	R.T. R.T. R.T. (b) Ha Concial Apex Angle Other Other	Aterial Hemispherical Radius fastening Drop Wi Charpy °F at tem  Location .ocation	Efficier No. of C T.S Flat Diameter  eight Impact p of Reinforcem Maternal	Incy
Seams: U - 'eads: ( 'Locat: a) Too.botto ) Channel If remova Design pri tems pelow f Safety Va Nozzles: Inspectio Openings Supports:	(Kind & Spec. No.) Long Girth (a) Material (a) Material (a) Material (a) Material ton Thicxness able, bolts used (a ressure able, bolts used (a ressure ressure to be completed for alve Outlets: Numl Purpose (Inlet, Outlet, Dran) No on Manholes, No. : Handholes, No. Threaded, No. : Skirt	(Min. of Range Crown Radius a) a) pr all vess ber ber unber	Specified)           1           H.T.           H.T.           H.T.           Knuck le           Radius	T.S Elliptical Ratio (c) osi at applicable. Size  Size Size	R.T. R.T. R.T. (b) Ha Concial Apex Angle Other Other	Aterial Hemispherical Radius fastening Drop W Charpy F at tem Location  cocation .ocation	Efficier No. of C T.S Flat Diameter  eight Impact p of Reinforcem Maternal	Incy

τ,



Page 179 of 218

v 10 -H 

.

. . .

.

۰ ۲ , , 

W/C 	рам NIS-2 Аттасителт неет 54 бё 79 )# 95-022229-001
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR	)# 95-022229-001
FORM N-2 NPT CERTIFICATE BOLDERS* DATA REPORT FOR	
FORM N-2 NPT CERTIFICATE BOLDERS, DATA REPORT FOR	· ·
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR	CORRECTED CORX
As required by the Provision of the ASME O	NUCLEAR PART AND APPERTMENCES. ode Rules, Section III, Div, I
1. Manufactured & Certified by: <u>GE Company, 2117 Castle Ha</u>	of NPT Certificate Holder)
(b) Manufactured for: PROWNS PERRY - 2, Near / (Name and Address of N Certificate Hol	
2. Identification-Certificate Holders's S/N of Part:	658 NAt'1 Bd. No. N/1
. (a) Constructed According to Drawing Nos_ 7682534G006	Dwg. Prepared by D. L. Pater
(b) Description of Part Inspected:CNITROL ROD DRI	TVE, MODEL & TROBL44PG002
(c) Applicable ASME Code: Section III, Edition_1974, Adden	da Date W'75, Case No. 1361-2 Cl
3. REMARKS: Standard part for use with Reactor. Hydrostati (Brief description of service for which	cally tested at 1825 psi, min.
CORRECTED COPY: CHANGED ITEM 2(a) and 2(b), Modified from	768E534G1 to G6 Drive.
·	SHEET 1 of 2
We cartily that the statements in this report are correct as defined in the code conforms to the rules of construc (The applicable Designed Specification and Stress Report a Cartificate Holder for parts. An NPT Certification Holde for furnishing a separate Design Specification and Stress included in the component Design Specification and Stress R	re not the responsibility of the r for appurtenances is responsi Report if the appurtenance is eport).
DATE: 5/20,19 88 Signed GE-NEBG-NF4CM-OA INPT Outlitionte Hole	
Certificate Of Authorization Expires: 6/16/90 Certificatio	n of Authorization No.1_NPT N-1
CERTIFICATION OF DESIGN FOR AP	PORTENDECE
Design information on file atGE COMPANY, SAN JOSE, C	ALIFORNIA
Stress analysis report on file at <u>GE COMPANY, SAN JOSE, C</u> DC22A6253 Rev. 0	
Design specification certified by BJORN HAABERG Prof.	Eng. State CALIF, Reg. No. 1557
DC22A4912 Rov. 2 Stress analysis report certified by <u>BETTADAFUR SRCHAR</u> Prof.	Eng. State CALIF. Rog. No. 1834
CERTIMONTON OF SHOP INSP	RETION
I, the undersigned, holding a valid commission by the Nati	ð
Inspectors and/or the State or Province of <u>NORTH CANOLINA</u> ar of <u>STATE OF NORTH CAROLINA</u> have inspected the part of a Partial Data Report on <u>2/24</u> 1982, and state and belief, the NPT Certificate Holder has constructed this Orde Section III.	nd employed by <u>DEPARIMENT OF LAB</u> pressure vessel described in the a that to the best of my knowled a part in accordance with the AS
By signing this certificate, neither the Inspector nor h expressed or implied, concerning the part described in the F neither the Inspector nor his employer shall be liable in an or property damages or a loss of any kind arising from or or	ly manner for any personal injur mnected with this inspection.
ATE 19.88 El Alemanue National	N.C. 723, PA.WC1766, OHIO

...

-4-2

4

/...

each sheet is numbered and number of sheets is recorded in Item 3, "REMARKSA" (10/77)

Page 180 of 218

			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se					
(tens 4-# Inc),	to be com	leted for	eingle vel	1	. jockutu	1. 19	hells of hes	1. eschengere.
. Dulla Nate	etat t	-) 	(oninė) Iniekoses	Cort in. Alle	ngalan Mance 1	n Die ft.	In, Lonat	n_f1in
. <b>J</b> WJJJ M3(0	(Kind & Sp	ec .Ho) (H	in, sitange	Specified	)			
. Somer Long		H.T.	,1,	R.1	• manual management	[fficier	«۲ <u></u>	^s
Girt 5. Nooder (s)	Neteriel		1.5.		(B)Meters		1.5	and the second second second second second second second second second second second second second second second
1		E emo	Kouckia E	llistical	Concisi	Hasiesheri	al flat	Side to Pros
Lecetian (Tap Botton,Ende)	Thickness	Redius	Radius	Antis	Apes Angl	a Redius	Disester	(conviet con
<pre>(*)</pre>								
(b)lf feeoveble,	bolts used				Other fee	tening		
••••	(meters)	al, Spec .N	· , 1.5. 51	te Number	F)	(Descri	be or attact	exetch)
. Jacket Clos	()		od seld.he	Fatte- 14	ber nive	dimensions.	f bolts, des	cribe or chet
	-	- <b>•</b>				Dreo W	Ispeci	
. Design free	#VI# 21	230		it	12	Charpy	Incact	^{r1-1} }
						,	•• •f	-1
tens 9 and 10	to be comple	ted for	ube eectio	MI#+		-		
							in, Attac	hand
P. Tube Sheets	* #18619946	(K)	Ind of Spec	. No.) (	Subj.to PI	***.)		Welden, 80110
1 . 1	Floating. H	atorial		01a		icknetei	a. Attachment	·
IO. Tubesi Nate	rint	0.0	). in.	Thickness		ece. Humber	Type	
	and the second data							(699 AP (1))
110400 11-14 105 11. Sholli Mote (Ki	), <u>to po co</u> sialT. nd&Spec.No,						<u>channels of f</u> intanglh	wat varhanget
11. Shelli Heta (Ki 12. Seens: Long	t.elt. nd&Spec.No.	no <u>leted fo</u> No SThi ) (Hin.di	or imer ch einei icknesei Range Spec 	Corror Corror In. Allevs Sified)	ischoled alon mcgin.	<u>veeppie, et (</u> Dieît	_intength_ \$	ft!n.
11. Shelli Heta (Ki 12. Seens: Long	t.elt. nd&Spec.No.	no <u>leted fo</u> No SThi ) (Hin.di	or imer ch einei icknesei Range Spec 	Corror Corror In. Allevs Sified)	ischoled alon mcgin.	<u>veeppie, et (</u> Dieît	_intength_ \$	ft!n.
11. Shell: Hete: (Ki 12. Seemer Long Gith 13. Heade (a) H Lucetion (a)Top, Bettom	tielt. nd&Spec.No. N N aterial	np) et ed fo Nor S. thi ) (Hin. di .T. 3	r inner ch einei icknete i Range Spec R.T. R.T.	Cottos Cottos (n. Alleva (find)	iscusted ion ion ion ion ion ion ion ion	vetpit, or ( Diaft Ass Materisj	_int englis, %	
11. Shell: Hete: (Ki 22. Seemer Long Gith 13. Hesde (a) H Lucetion (a)Top, Bettom (b)Top.met	rialt. nd&Spec.No. H aterialH , Ticnkase	ng) et ef fr Nor S	rinner ch linni licknese R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T	Corror Corror In, Allowa Sified)	iscusted ion incein. Efficiency_ io. of Cour (b) Concisi Aper Angl	vespie, or ( Disfi ess Hateris] Humispher. a Redium	_int englis, %	
11. Shell: Mete (Ki 12. Seemer Long Girth 13. Hende (a) H Lucetion (a)Top, Bettom End	rialt. nd&Spec.No. H aterialH , Ticnkase	ng) et ef fr Nor S	rinner ch linni licknese R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T	Corror Corror In, Allowa Sified)	iscusted ion incein. Efficiency_ io. of Cour (b) Concisi Aper Angl	vespit, or ( Disfi Hateris) Hasispher. a Redius Lening	in_tength s lcs1 fet Dienster	Tt
11. Shell: Hete: (Ki 22. Seemer Long Gith 13. Hesde (a) H Lucetion (a)Top, Bettom (b)Top.met	rialt. nd&Spec.No. H aterialH , Ticnkase	ng) et ef fr Nor S	rinner ch linni licknese R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T R.T	Corror Corror In, Allowa Sified)	iscusted ion incein. Efficiency_ io. of Cour (b) Concisi Aper Angl	veapple, of ( Dia,fi Haispher. a Redium Eening Drop W	in_tength	T.SIn. 5100 to Pro r (Corw.or Cor 
11. Shell: Hete: (Ki 12. Seemer Long Glith 13. Herede (a) H Lucetion (a)Top, Beiton (b)Chenvel If reservable, b	rielf. nd&Spec.No, H M aterial , Ticrkese  olte used (	mp)etse fr Noi S, Thi ) (Hin.dl .T.1 .T.1 Erown Rediue	Primerch sinal ickness R.T R.T R.T R.T R.T R.T R.T ()	Corror Corror n. Allews Sifind) Llipticel Ratio	ischeied ich ich ich ich ich ich ich ich	veeppie. of ( Dia?t Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris]_ Hateris]_ Hateris] Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	in_tength	Tt
11. Shell: Hete: (Ki 22. Seemer Long Gith 13. Hesde (a) H Lucetion (a)Top, Bettom (b)Top.met	rielf. nd&Spec.No, H M aterial , Ticrkese  olte used (	mp)etse fr Noi S, Thi ) (Hin.dl .T.1 .T.1 Erown Rediue	Primerch sinal ickness R.T R.T R.T R.T R.T R.T R.T ()	Corror Corror n. Allews Sifind) Llipticel Ratio	ischeied ich ich ich ich ich ich ich ich	veeppie. of ( Dia?t Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris]_ Hateris]_ Hateris] Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]_ Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]] Hateris]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	in_tength	T.SIn. 5100 to Pro r (Corw.or Cor 
11. Shell: Hete: (Ki 12. Seemer Long Glith 13. Heade (a) H Lucotion (a)Top, Bettom End (b)Chennel If seevemble, b 14. Design pive Lieme belev te	ris] nd&Spec.No. N aterialN  olta used (     	mp)etsd fr Nor S. Thi (Hir.dl .T.2 .T.2 .T.2 .T.2 .T.2 .T.2 .T.2 .T.	pr inner ch binai isknese Range Spec R.TR.T R.T Radium (b) pei	et	ischeied icelia	veapple, of a Dia,fi Hateris] Hateris] Haispher. a Redium Eening (Descr Drop M Cherpy of , at tem	intength	Tt
11. Shell: Hete (Ki 12. Seemer Long Glith 13. Herede (a) H Lucetion (a)Top, Bettom End (b)Chenvel If reservable, b 14. Design pires	ris]f. nd&Spec.No. H aterialH olta used (  	mp)etsd fr Nor S. Thi (Hir.dl .T.1 .T.1 Crown Rediue	pr inner ch binai isknese Range Spec R.TR.T R.T Radium (b) pei	et	ischeied icelia	veapple, of a Dia,fi Hateris] Hateris] Haispher. a Redium Eening (Descr Drop M Cherpy of , at tem	intength	Tt
11. Shell: Hete: (Ki 12. Seemer Long Glith 13. Heade (a) H Lucotion (a)Top, Bettom End (b)Chennel If seevemble, b 14. Design pive Lieme belev te	ris]f. nd&Spec.No. H aterialH olta used (  	mp)etsd fr Nor S. Thi (Hir.dl .T.1 .T.1 Crown Rediue	pr inner ch binai isknese Range Spec R.TR.T R.T Radium (b) pei	et	ischeied icelia	vespele, of ( Dis,ft, Hateris) Hateris) Hasispher, a Redius Coscr Drop M Charpy at tem  i.ecation	in_tength	T.SIn. Side to Pro- r (Cerw.or Cer analytic
11. Shell: Hete: (Ki 12. Seeme: Leng Glith 13. Herde (a) H Lucation (a)Top. Bettom End (b)Chenvul If removable, b 14. Design pice Liens helev.is 25. Sefety Yalv 15. Hozzles: Purpose (In	rielt. nd&Spec.No, H aterialH , Ticrksse olts used ( mure ² be complete e Outlates Let	mpleted for Non S, Thi ) (Hin. of .T. 1 .T. 1 Crown Rediue e) e) d for ell	pr inner ch sinal ickness R.T R.T R.T R.T Radium (b) pei	et	ischeied ion mcein. (fficiency_io. of Cour (b) i Conciel Ape= Ang) Duner Fad	vespele, of ( Dis,ft, Hateris) Hateris) Hasispher, a Redius Coscr Drop M Charpy at tem  iecation	in_tength 	T.SIn. Side to Pro- r (Cerw.or Cer analytic
11. Shell: Hete: (Ki 12. Seemer Long Gleth 13. Heade (a) H Lucotion (a)Top, Bettom End (b)Chennel If secondle, b 14. Design pres Liene belev.is 25. Sefety Valv 15. Hozzles:	rielt. nd&Spec.No, H aterialH , Ticrksse olts used ( mure ² be complete e Outlates Let	mpleted for Non S, Thi ) (Hin. of .T. 1 .T. 1 Crown Rediue e) e) d for ell	pr inner ch binai isknese Range Spec R.TR.T R.T Radium (b) pei	et	ischeied icelia	vespele, of ( Dis,ft, Hateris) Hateris) Hasispher, a Redius Coscr Drop M Charpy at tem  iecation	in_tength 	T.SIn. Side to Pro- r (Cerw.or Cer analytic
11. Shell: Hete: (Ki 12. Seeme: Leng Glith 13. Herde (a) H Lucation (a)Top. Bettom End (b)Chenvul If removable, b 14. Design pice Liens helev.is 25. Sefety Yalv 15. Hozzles: Purpose (In	rielt. nd&Spec.No, H aterialH , Ticrksse olts used ( mure ² be complete e Outlates Let	mpleted for Non S, Thi ) (Hin. of .T. 1 .T. 1 Crown Rediue e) e) d for ell	pr inner ch sinal ickness R.T R.T R.T R.T Radium (b) pei	et	ischeied ion mcein. (fficiency_io. of Cour (b) i Conciel Ape= Ang) Duner Fad	vespele, of ( Dis,ft, Hateris) Hateris) Hasispher, a Redius Coscr Drop M Charpy at tem  iecation	in_tength 	T.SIn. Side to Pro- r (Cerw.or Cer analytic
<ol> <li>Shell: Hete: (Ki</li> <li>Seemer Long Gleth</li> <li>Heade (a) H Lucation (a)Top, Bettom (b)Chennel</li> <li>Fessevable, b</li> <li>Channel</li> <li>Fessevable, b</li> <li>Safety Valv</li> <li>Safety Valv</li> <li>Norzles: Purpose (In Dutlet, Dre</li> </ol>	rial rid&Spec.Wo. HH aterialH olta uses ( mure ² be complete e Outlates liet in) Mu	mpleted for Non S	pr inner ch sinal ickness R.T R.T R.T R.T Radium (b) (b) yeogols_ch	et	ischeied ion mcein. (fficiency_io. of Cour (b) i Conciel Apez Angl Duner Fed Iceble. Material	veepple, or c Dia,	in_tength 	T.SIn. Side to Pro- r (Cerw.or Cer analytic
<ol> <li>Shell: Hete: (Ki</li> <li>Seemer Long Gith</li> <li>Hende (a) H Lucation (a) Top, Bettom (b) Chenroui</li> <li>Topony Bettom (b) Chenroui</li> <li>Personable, b</li> <li>A Design press</li> <li>Safety Yalv</li> <li>Safety Yalv</li> <li>Safety Yalv</li> <li>Mozzles: Purpose (In Dutlet, Dre</li> <li>Inspection</li> </ol>	rial rid&Spec.Wo. ***********************************	mpleted for Non SThi ) (Hin. al , T. 2  Crown Rediue  a)  a)  crown Rediue 	pr inner ch sinal icknessi Range Spec R.TR.T R.T R.T R.T R.T (b) (b) (b) pel yeogejs ch	et	ischeied sion mcgin. (ifficiency_io. of Cour (b) 1 Conciel Apes Ang) Duer Fed Uceble. Materis	vespele. of ( Disft Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Hateris] Coser Drop M Cherpy of . at tem Lecation Lecation	in_tength 	T.SIn. Side to Pro- r (Cerw.or Cer analytic
<ol> <li>Shell: Hete: (Ki</li> <li>Seemer Long Gleth</li> <li>Heade (a) H Lucation (a)Top, Bettom (b)Chennel</li> <li>Fessevable, b</li> <li>Channel</li> <li>Fessevable, b</li> <li>Safety Valv</li> <li>Safety Valv</li> <li>Norzles: Purpose (In Dutlet, Dre</li> </ol>	risit. rd&Spec.Wo. MaterialM aterialM p Ticrksee polts used ( mure2 be complete to Outlates let in) Hu Nerholse, Hendles,	mp) = t g d f d Non S,Thi ) (Hin. al , T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2 . T. 2	pr     inver ch       sinai     i       sinai     i       icknessi     i       R.T     R.T       R.T     I.S       Knucle     E       Radium     I       (b)     pei	et	ischeied icebie. Haterisl	veepple, or c Dia,	in_tength 	T.SIn. Side to Pro- r (Cerw.or Cer analytic
<ol> <li>Shell: Hete: (Ki</li> <li>Seemer Long Gith</li> <li>Hende (a) H Lucation (a) Top, Bettom (b) Chenroui</li> <li>Topony Bettom (b) Chenroui</li> <li>Personable, b</li> <li>A Design press</li> <li>Safety Yalv</li> <li>Safety Yalv</li> <li>Safety Yalv</li> <li>Mozzles: Purpose (In Dutlet, Dre</li> <li>Inspection</li> </ol>	rial	mp)etsed for Non S	pr     inver ch       sinai     i       sinai     i       icknessi     i       R.T     R.T       R.T     I.S       Knucle     E       Radium     I       (b)     pei	Corro Corro n. Allews Sfied) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	ischeied ion mcein. (fficiency_io. of Cour (b) i Conciel Apes Angl Duner Fad iceble. Natorial	veepple. or c Diaft Hateris] Hateris] Hateris] Hateris] Conce Drop W Cherpy or . at tem f.ecation Lecation Lecation Location	in_tength 	T.SIn. Side to Pro- r (Cerw.or Cer analytic

لې د د د د د د

Page <u>181</u> of <u>218</u>

10 A.

- 545

2.14

,		*
•		
,	FORM NIS-2 HTTACHM	VENT
	SHEET 55 OF 79	
	WO # 95-022229-001	
$\gamma$ -		
, ,	FORM N-2 MPT CERCIFICATE BOLDERS' DATA REPORT FOR HULLEAR PART AND APPORTENDERCES* As required by the Provision of the ASME Onde Rules, Section III, Div, I	ł
Ì	1. Manufactured & Cartified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28401 (Name and Address of NPT Cartificate Holder)	
	(b) Manufactured for: BRCHNS FIREY - 2, Near Athens, AL 35611 (Name and Address of N Certificate Holder for completed nuclear compon	ent)
	2. Identification-Certificate Holders's S/N of Parts A5658 Nat'l Bd. N. N/A	
	(a) Constructed According to Drawing No: 7682534G005 Dwg. Prepared by D. L. Peter	<u>aon</u>
	(b) Description of Part Inspected: <u>CONTROL ROD DRIVE, MODEL # 7RDB144F0002</u> N207	/
â	<ul> <li>(C) Applicable ASE Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Cla</li> <li>3. REMARKS: <u>Standard part for use with Peactor. Hydrostatically tested at 1825 psi. min.</u></li> </ul>	8 <u>5,1</u>
	(Brief description of service for which component was designed) CORRECTED COPY: Changed Items 2(a) and 2(b), Modified from 769E534G1 to G6 prive.	
	Sheet 2 of 2	!
	1. Cmp 166B9274P1	
, , ,	SA182-P316 3/8 thick X 1 1/16 00	
	2. Indicator Tube 16689313P1	,
•	3/4 ach 40-scenless pipe 0.113 wall thickness 1.065 max. dia.	
	3. Plug 159A1176P1 SA182-P304	
1	1/4 thick x 0.812 00	
	4. Plange 9190610P1 (7192474) SA182-F304 3.37 thick x 9 5/8 00	
Martin and the second	5. 2nao 1370531191	
	x04-19 SA479 7/8 thick x 2,875 Dia,	
	6. Ring Plange 137C9151P2	
	1" thick x 5.0 00 x 1.75 ID	
•	7. Cup Screw 117C4516P2 SA193-B6 6 ca. 1/2 dia. on 4 1/8 bolt circle	۶
	8. plug 175A7961p1	1
	5A162-7304 0.38 thick x 1.307 dia.	
	9. Nut 13705936P1	
	' 201-19 5A479 1.30, thick x 2.62 dia.	
	$D_{a} = 102 = 0.210$	,
	Page <u>182 of 218</u>	

•••

1

•,

.

•

·

.

.

۰. ۲

• • •

FORM MIS-2 ATTACHMENT SHEET 56 OF 79 WO # 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I 1. Hanufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) 2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) (b) Manufactured for : _TVA DECATUR, AL 35609-2000 ( Name and Address of N Certificate Holder for completed nuclear component ) (a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by D.L. Peterson (b) Description of Part Inspected: <u>Control Rod Drive</u>, Model # 7RDB144FG005 (c) Applicable ASHE Code: Section III, Edition <u>1974</u>, Addenda Date <u>W75</u>, Case No. <u>N207 1361-2</u> Class <u>1</u> 3. REHARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> ( Brief description of service for which component was designed ) Sheet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASNE Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Signed <u>GE-NE</u> By (NPT Certificate Holder/ Date: 09/26/95 Certificate of Authorization Expires: 6/16/96 Certification of Authorization No. : NPT.N - 1151 Certification of Design for Appurtenance Design information on file at ___ GE Company, San Jose, California Stress analysis report on file at ____<u>GE Company, San Jose, California</u> OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>1977</u>, <u>2995</u>, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. 9/26. 1995 Jume PEver Inspector's Signature <u>NC 1231, Ohio, WC 3686 PA</u> Date / National Board, State, Province And No. *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

Page 183 of 218

(07/90)

FORM N-2 ( back )

7

. _

`**````**``

· ·

. .

r

.

Items 4-8 Incl. to be completed for	single wall vessels, jacket	s vessels, or shells of	heat exchangers,
4. Sheil: Material T.S T.S	Thickness in. Al		ft in. Length ft in
5. Seams: Long	H.T.,	R.T	EfficiencyX
Girth	н.т.		No. of Courses
6. Heads: (a) Material	T.S	(b) Material _	T.S
Location ( Top - Co Bottom, Ends ) Thickness Ra (a)	adius Radius Ratio	Apex Angle Radius	erical: Flat" - Side to Press. ( Diameter ( conv. or conc. )
•	(Material, Spec. No., T.S. Stre Humber)		(Describe of allocit stericit)
7. Jacket Closure:	I Describe as once and weld, bar, etc. I	bar ove dimensions, if bolts, descri	be or slutch )
	4		Charpy Impact ft-lb
8. Design pressure12	50 psi at	\$75°F	at temp ofF
Items 9 and 10 to be completed for		<u> </u>	1
<ol> <li>Tube Sheets: Stationary. Mate</li> <li>Floating. Hat</li> </ol>	erial Dia (Kind&Spec. No.) Dia	(Subject to pressure ) Thic	kness in. Attachment
			age. Number Type(Sr.oru)
Items 11 - 14 incl. to be complete	d for inner chambers of jack	eted vessels, or channe	ls of heat exchangers.
(Kind & Spec. No.) (Min	Thickness in. A of Range Specified)		ft in. Length ft in
12. Seams: Long	•		EfficiencyX
			No. of Courses
13. Heads: (a) Material			T.S
Location Thickness R (a) Top.bottom.ends	ladius Radius Ratio		Diameter ( conv. or conc. )
(b) Channel If removable, bolts used (a)	(b)(c)	Other fasten	ng(Describe or attach stretch)
			Drop Weight ft-lb
2 14. Design pressure	psi at	· •	at temp of F
Items below to be completed for a			
15. Safety Valve Outlets: Number		<u></u>	Location
16. Nozzles: Purpose (inlet,			Beinforcement #
Cutet Drain) Numbe	r Dia, or Size Type	Material Tr	ictress Material How Attached
17. Inspection Manholes, No. Openings: Handholes, No. Threaded, No.		Location Location Location Location	
18. Supports: Skirt(Yee or No)	Lugs Legs	(Humber) Other	(Describe) (Where & How)
1 - If Postweid Heal-Treated. 2 - List other internal or external pressure with	-	e '	• .
		34 of 218	

FORM NIS-2 ATTACHMENT SHEET 57 OF 79 WO # 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

1,	Manufactured & Certified by : <u>Genera</u>	I Electric Company Nuclear Energy (GE-NE)
	2117 (	Castle Hayne Road, Wilmington, North Carolina 28401
		( Name and Address of NPT Certificate Holder )
۰,	(b) Manufactured for : <u>TVA</u> (Name and	DECATUR, AL 35609-2000 Address of N Certificate Holder for completed nuclear component )
. 2.	-Identification - Certificate Holder's	S/N of Part : <u>A3614</u> Nat'l Bd. No. <u>N/A</u>
		No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D. L. Peterson</u>
		Control Rod Drive , Model # 7RDB144FG005
•		I. Edition <u>1974</u> , Addenda Date <u>W'75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
•		Reactor. Hydrostatically tested at 1825 psi. min.
э.	( Brief description	of service for which component was designed )
		•
		Sheet 2 of 2
	× · · · · · · · · · · · · · · · · · · ·	, •
	1. Cap 166B9274P001	
	SA182 - F316 * 3/8° thick x 1 1/16° OD	
	2. Indicator Tube 166B9313P001 SA312 - TP316	u.
ļ	3/4° sch 40 - seamless pipe	·
	0.113° wall thickness 1.065° max. dia.	1
		Reactor
	3. Plug 159A1176P001 SA182 - F304	Vessel Thimble
	1/4" thick x 0.812" OD	P50/P102
	4. Flange 919D610P001 (719E474) SA182 - F304	······································
1.	3.37° thick x 9 5/8° OD	
	5. Base 137C5311P001	
	SA182 - F304	3
	7/8° thick x 2.875° dia.	
	6. Ring Flange 11485122P002, P003	· Code NeId · · · · · · · · · · · · · · · · · · ·
	137C8151P001, P002 SA182 - F304	
	1° thick x 5.0° OD x 1.75° ID	8
		5
	7. Cap Scrow 117C4516P002 SA193 - B6	
	6 ea. 1/2º dia. on 4 1/8º bolt circle	4
	8. Plug 175A7961P001	
	SA182 - F304	
	0.38° thick x 1.307° dia.	Code Nold / 1 P50YP102 6
	9. Nut 137C5934P001	Rolled before weld
	XM - 19 SA479 . 1.30° thick x 2.62° dia.	
•	uiica a <b>e</b> .ue uid.	Page 185 of 218
		Page UI

• ۵

.

• • • .

. •

۰ ۲

A ų

•• •

•

,

x 

* • .

the Car Billion of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter of the Carter

		FORM NIS-2 ATTACHMEN
		SHEET 58 OF 79
		W0#95-022229-001
	r	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I
•,	:.	Manufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u>
•		2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Name and Address of NPT Certificate Bolder)
		(b) Manufactured for : TVA DECATUR, AL 35609-2000 (Name and Address of N Certificate Holder for completed nuclear component )
	2.	Identification - Certificate Holder's S/N of Part :
		(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.Polerson</u>
		(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
		(c) Applicable ASHE Code: Section III , Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
	3.	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.</u> (Brief description of service for which component was designed)
•		. Sheet 1 of 2
	_	We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ).
	•	Date: 09/26/95 Signed <u>GE-NE</u> By S. (SC QA Representive )
		Certificate of Authorization Expires: 6/16/96 Certification of Authorization No. : <u>NPTN-1151</u>
	Γ	Certification of Design for Appurtenance
		Design information on file at <u>GE Company, San Jose, California</u>
		Stress analysis report on file at GE Company, San Jose, California
		OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
		0C22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	<b></b>	Certification of Shop Inspection
		, the undersigned, bolding a valid commission by the National Board of Boiler and Pressure Inspectors 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>345</u> , 1995.
		inspected the part of a pressure vessel described in this Partial Data Report on <u>9/15</u> , <u>1995</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, neither the inspector nor his employer makes any warranty, expressed or implied.
4		inspected the part of a pressure vessel described in this Partial Data Report on $2/1-5$ , $1995$ , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
N.		inspected the part of a pressure vessel described in this Partial Data Report on <u>9/15</u> , <u>1995</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or
	.**	inspected the part of a pressure vessel described in this Partial Data Report on <u>97.5</u> , <u>1995</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, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>9/66.1995</u> <u>frace</u> <u>PEnso</u> <u>NC 1231, Ohio, WC 3686 PA</u> Date <u>Inspector's Signature</u> <u>National Board. State, Province And No.</u> Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is $8-1/2^{m} \times 11^{m}$ , (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet' is numbered and number of sheets is recorded in Item 3. "REMARKS".
	,* <u>:</u>	inspected the part of a pressure vessel described in this Partial Data Report on $9/1-5$ , $1995$ , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. $\frac{9/26}{Date}, 1995 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000 + \frac{1995}{1000}, 1000$

`~

×.	ž					•				-	······································	•
		1	•	-	1						т <u>с</u>	i
						F	ORM N-2	back	)			
em	s 4-8 In	cl. to	be compl	eted f	or sing	le wall ve	ssels, jack	ets vessels, o	r shells of hea	t exchangers.		
. ′	Shell:	Kateri (	Kind & Spec	. No. ) (M	in, of Rang	e Specified )	: in.	Corrosion Allowance	in. Dia	ft in. I	Length ft	
											ency	
	1	Girth				н.т.'		R.T.	•••••••••••••••••	No. of	Courses	
	Heads:	(a) Ma	terial _				t.s	(b)	Material	t	.s	
)	Location Bottom,	( Top Ends )	Thick	iess	Radius	Radius	Ratio	1 Concial Apex Angle	Radius '	1 Flat Diameter	Side to Press. ( conv. or conc	. )
)	lf remov	able,	bolts use	ed					ening			
	Jacket C	losure	:				L Size Humber)				sketch }	
					•	•		•	Char	b Weight py Impact		- 16
	Design p	ressur	e		1250	p:	si at	575	°Fat t	emp of	F	
		••••	+			sections						
			Floating	. M	aterial	(Kind & S	(pec. No.)	)ia. (Subject to pres )ia.	Thickness Inickness	i in. A	ttachment	. 30
	• L											
•	iupes:	Materi	a)			0.D	in. Tł	nickness	inches of gage.	Number	iype	. or U
									or channels of		ຸ( ຣັບ	. or U
ten	is 11 - 1	4 incl Materi	. to be	complet	ted for	inner cha Nominal Thicknes	mbers of jac	cketed vessels, Corrosion	or channels of	f heat exchang	ຸ( ຣັບ	. or U
en	s 11 - 1 Shell:	4 incl Materi	. to be	comple: 	ted for Mn. of Ranç	Inner cha Nominal Ihicknes: pespecifed) t	mbers of jac s in.	cketed vessels, Corrosion Allowance	or channels of in. Dia	f heat exchang ft in.	jers.	. or U
en	s 11 - 1 Shell:	4 incl Materi Long	. to be	comple: T.S No.)(k	ted for	Inner char Nominal Ihicknes: pespecied) H.T.	mbers of jac s in.	cketed vessels, Corrosion Allowance R.T.	or channels of in. Dia	f heat exchang ft in. Effici	(Su jers. Length ft.	. or U
ten	s 11 - 1 Shell: Seams:	4 incl Materi Long Girth	al	comple: T.S No.)(k	ted for , Mn, of Rang	Inner char Nominal Thicknes: Je Specfied) H.T. H.T.	mbers of jac s in.	Corrosion Allowance R.T R.T.	or channels of in. Dia.	f heat exchang ft in. Effici No. of	(su jers. Length ft	. or U
	Shell: Seams: Heads: Locat	4 incl Materi Long Girth (a) Ma tion	al (Kind & Spec	comple: 	ted for	Inner cha Nominal Thicknes: Poscied) H.T. H.T. Knuckle	mbers of jac s in. T.S	Cketed vessels, Corrosion Allowance R.T. R.T. (b)	or channels of in. Dia Material Hemispherica	f heat exchang ft in. Effici No. of T	(su jers. Length ft iency	. or U
	Shell: Seams: Heads: Local Top.bot: Channel	4 incl Materi Long Girth (a) Ma tion	al (Kind & Spec	comple: 	ted for 	Inner cha Nominal Thicknes: Posceled) H.T H.T Knuckle Radius	mbers of jac s in. T.S Elliptica	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle	or channels of in. Dia Material Hemispherica	f heat exchang ft in. Effici No. of T al Flat Diameter 	(So Jers. Length ft. fency Courses T.S Side to Press. ( conv. or cond 	. or U
	Shell: Seams: Heads: Local Top.bot: Channel	4 incl Materi Long Girth (a) Ma tion	to be al	comple: 	ted for 	Inner cha Nominal Thicknes: Posceled) H.T H.T Knuckle Radius	mbers of jac s in. T.S Elliptic. Ratio	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle	or channels of in. Dia Material Hemispherica Radius per fastening Drog	f heat exchang ft in. Effici No. of T al Flat Diameter  b Weight	(Su jers. Length ft. iency Courses Courses Side to Press. ( conv. or cond  conve or attach statch)	;, )
(en	Shell: Seams: Heads: Local Top.bott Channel If remov	Ateri Long Girth (a) Hation tion tom, end vable,	to be al	T.S T.S No.) (k ness ed (a)	ted for 	Inner cha Nominal Thicknes: Poscfied) H.T. H.T. Knuckle Radius (b)	T.S Elliptic: Ratio	Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth	or channels of in. Dia Material Hemispherica Radius per fastening Drop Chan	f heat exchang ft in. Effici No. of T al Flat Diameter  o Weight	(Su yers. Length ft. fency F Courses F.S Side to Press. ( conv. or cond  conbe or attach sketch)	;. )
() () () () () () () () () () () () () (	Shell: Shell: Seams: Heads: Locat Top.bott Channel If remov Design p	A incl Materi Long _ Girth (a) Ma tion tom, end vable,	to be al	comp le: 	ted for	Inner char Nominal Thicknes: Seconded) H.T. H.T. Knuck le Radius	mbers of jac s in. T.S Elliptic: Ratio (c) 	Corrosion Allowance R.T. R.T. Concial Apex Angle Concial Apex Angle Concial	or channels of in. Dia Material Hemispherica Radius per fastening Drop Chan	f heat exchang ft in. Effici No. of T al Flat Diameter  b Weight	(Surjers. Length ft fency F Courses F Courses Side to Press. ( conv. or cond  conte or attach statch) find o	;. )
a) ten	Shell: Shell: Seams: Heads: Locat Top.bot? Channel If remov Design p	4 incl Materi Long Girth (a) Ma tion to be	. to be al (Kind & Spece interial is bolts us  complete	T.S No.) (k ness ed (a)	An. of Pars	inner cha Nominal Thicknes: Specfied) H.T H.T Knuckle Radius (b) sels where	mbers of jac s in. T.S Elliptic. Ratio (c) psi at applicable	cketed vessels, Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth	or channels of in. Dia Material Hemispherica Radius per fastening Chan  F at f	f heat exchang ft in. Effici No. of T al Flat Diameter  b Weight temp of	(Surjers.	;; ) ;- 1b
	Shell: Seams: Heads: Locat Top.bot Channel If remov Design p ns below Safety Y	A incl Materi Long Girth (a) Ma tion to be Valve (	L to be al (Kind & Spece iterial terial bolts us 2 complete Outlets:	T.S No.) (k ness ed (a)	An. of Pars	inner cha Nominal Thicknes: Specfied) H.T H.T Knuckle Radius (b) sels where	mbers of jac s in. T.S Elliptic. Ratio (c) psi at applicable	cketed vessels, Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth	or channels of in. Dia Material Hemispherica Radius per fastening Chan  F at f	f heat exchang ft in. Effici No. of T al Flat Diameter  b Weight temp of	(Surjers.	;; ) ;- )b
	Shell: Shell: Seams: Heads: Locat Top.bot? Channel If remov Design p	A incl Materi Long _ Girth (a) Ma tion toon, end vable, pressur to be Valve ( : Purpos	L to be al (Kind & Spece iterial terial bolts us 2 complete Outlets:	T.S No.) (k ness ed (a)	ted for 	inner cha Nominal Thicknes: Specfied) H.T H.T Knuckle Radius (b) sels where	mbers of jac s in. T.S Elliptic: Ratio (c) psi at applicable Si:	cketed vessels, Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth	or channels of in. Dia Material Hemispherica Radius Der fastening Chan °F at t	f heat exchang ft in Effici No. of T al Flat Diameter o Weight temp of ation Beenforce	(Su jers. Length ft fency Courses Courses Side to Press. ( conv. or cond conve or attach sketch) fi o ement	:. )
	Shell: Shell: Seams: Heads: Locat Top.bot Channel If remov Design p ns below Safety Nozzles	A incl Materi Long Girth (a) Ma tion tom, end vable, vable, vable, vable, vable, vable, vable, vable, vable, vable,	. to be ( al	complet 	ted for An. of Pars Crown Radius all ves r ber	Inner char Nominal Thicknes: Specified) H.T. H.T. Knuckle Radius (b) Sels where Cia. or Siz	mbers of jac sin. T.S Elliptic. Ratio (c) psi at applicable Si *	Cketed vessels, Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth Oth Concial Apex Angle Oth Concial Apex Angle Oth Concial Apex Angle	or channels of in. Dia Material Hemispherica Radius Der fastening Chan F at t Loca Loca	f heat exchang ft in Effici No. of T al Flat Ormeter (Deec o Weight rpy impact temp of ation Beenforce	(SU Jers. Length ft fency F Courses F Courses Side to Press. ( conv. or cond  conbe or attach sketch)  ernert How Attack	;. ) ;. ) ;- 1b
	Shell: Seams: Heads: Locat Top.bot Channel If remov Design p ns below Safety Y	A incl Materi Long _ Girth (a) Ma tion to be vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable, vable,	2 complete put lets: o (kind & Special (Kind & Special a special contained o (kind,	complet T.S No.) (N ness ed (a) d for Numbe Numbe Numb	ted for An. of Pars Crown Radius all ves r ber	Inner char Nominal Thicknes: Seconded) H.T. H.T. Knuck le Radius (b) sels where	mbers of jac sin. T.S Elliptic. Ratio (c) psi at psi at (c) psi at size Size	Corrosion Allowance R.T. R.T. Concial Apex Angle Difference Concial Concial Apex Angle Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concial Concin Concial Concial Co	or channels of in. Dia Material Hemispherica Radius Der fastening Fat f Fat f Loca w Location	f heat exchang ft in. Effici No. of T al Flat Diameter  o Weight (Desc o Weight temp of ation Reenforce Matenal	(Su jers. Length ft fency Courses Courses Side to Press. ( conv. or cond conve or attach sketch) fi o ement	;. ) ;. )
(a)	Is 11 - 1 Shell: Seams: Heads: Local Top.bot: Channel If remov Design p ns below Safety V Nozzles	A incl Materi Long _ Girth (a) Ma tion to be vable, vable, vable, vable, vable, vable, vable, vable, vable, ressul to be valve ( cutet, to Ma tion to be valve ( cutet, to be valve ( cutet, to be to be valve ( cutet, to be valve ( cutet, to be to be valve ( cutet, to be valve ( cutet, to be to be valve ( cutet, to be) valve ( cutet, to be) valve ( cutet, to be) valve ( cutet, to be) valve ( cutet, to cutet, to cute	L to be a al	complet T.S. No.) (k ness ed (a) d for Numbe Numbe Num No. No.	ted for An. of Pars Crown Radius all ves r ber	Inner char Nominal Thicknes: Specified) H.T H.T Knuck le Radius  (b) sels where Dia. or Siz	mbers of jac sin. T.S Elliptic. Ratio (c) psi at (c) psi at (c) psi at size Size Size	cketed vessels, Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth Oth	or channels of in. Dia Material Hemispherica Radius Der fastening Chai F at the Location Location Location	f heat exchang ft in. Effici No. of T al flat Diameter  (Desc py impact temp of ation Reenforce Matenal	(SU Jers. Length ft fency F Courses F Courses Side to Press. ( conv. or cond  Side to Press. ( conv. or cond  Side to Press. ( conv. or cond  show Attack	;. ) ;. ) ;. )b
a) ten	Shell: Shell: Seams: Heads: Locat Top.bot Channel If remov Design p ns below Safety N Nozzles Inspect Opening	A incl Materi Long _ Girth (a) Ma tion to be vable, vable, vable, vable, vable, vable, vable, vable, vable, ressul to be valve ( cutet, to Ma tion to be valve ( cutet, to be valve ( cutet, to be to be valve ( cutet, to be valve ( cutet, to be to be valve ( cutet, to be valve ( cutet, to be to be valve ( cutet, to be) valve ( cutet, to be) valve ( cutet, to be) valve ( cutet, to be) valve ( cutet, to cutet, to cute	L to be a al	complet T.S. No.) (k ness ed (a) d for Numbe Numbe Num No. No.	ted for An. of Pars Crown Radius all ves r ber	Inner char Nominal Thicknes: Specified) H.T H.T Knuck le Radius  (b) sels where Dia. or Siz	mbers of jac sin. T.S Elliptic. Ratio (c) psi at (c) psi at (c) psi at size Size Size	cketed vessels, Corrosion Allowance R.T. R.T. (b) al Concial Apex Angle Oth Oth	or channels of in. Dia Material Hemispherica Radius Der fastening Fat f Fat f Loca w Location	f heat exchang ft in. Effici No. of T al flat Diameter  (Desc py impact temp of ation Reenforce Matenal	(SU Jers. Length ft fency F Courses F Courses Side to Press. ( conv. or cond  Side to Press. ( conv. or cond  Side to Press. ( conv. or cond  show Attack	

•* -

·**_** 

ţ

و الدي موجود الورق و مواد ا

)`

** 1 Page_<u>187_of</u>____

FÖRTA NIS-2" ATTACHMENT : 39354 SHEET 59 OF 79 WO # 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I 1. Vanufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) 2117 Castle Hayne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) DECATUR, AL 35609-2000 TVA (b) Manufactured for : ( Name and Address of N Certificate Holder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : A5319 _ Nat'l Bd. No. ___<u>N/A</u> (a) Constructed According to Drawing No: 768E534G008 Rov 9 Dwg. Prepared by D.L. Peterson (b) Description of Part Inspected: <u>Control Rod Drive</u>, <u>Model # 7RDB144FG005</u> (c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W75. Case No. N207 1361-2 Class 1 3. REHARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 166B9274P001 SA182 - F316 3/8* thick x 1 1/16* OD 2. Indicator Tube 166B9313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.065° max. dia. Reactor 3. Plug 159A1176P001 Vessel SA182 - F304 Thimble Code Meld 1/4" thick x 0.812" OD P507P102 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9'5/8" OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. Code Neld 6. Ring Flange 114B5122P002, P003 P50YP102 137C8151P001, P002 SA182 - F304 1' thick x 5.0' OD x 1.75' ID 8 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2º dia. on 4 1/8º bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" dia. Code Neld P501P102 6 Rolled before weld 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia. Page 188 of 218

•/

. . . . . . . . . .

......



.

. .

•

и • • • • ,

.

• 5

	the second second second second second second second second second second second second second second second se
	FORM NIS-2 ATTACHN
	SHEET 60 OF 79
	WO # 95-02229-00
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I
1.	Manufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u>
	2117 Castle Hayne Road, Wilmington, North Carolina 28401
	(b) Manufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> (Name and Address of N Certificate Holder for completed nuclear component)
2.	Gentification - Certificate Holder's S/N of Part : <u>A5285</u> Nat'l Bd. No. <u>N/A</u>
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L. Peterson</u>
	(b) Description of Part Inspected: <u>Control Rod Drive</u> , Model # 7RDB144FG005
	(c) Applicable ASME Code: Section III. Edition <u>1974</u> , Addenda Date <u>W'75</u> , Case No. <u>N207 1361-2</u> Class
3.	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed )
	. Sheet 1 of 2
	We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the cod conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stre Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtena is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included the component Design Specification and Stress Report ).
	Date: 09/26/95
	Certificate of Authorization Expires: 6/16/96 Certification of Authorization No. : <u>NPT N - 1151</u>
	Certification of Design for Appurtenance
	Design information on file at GE Company . San Jose . California
	Design information on file at GE Company . San Jose . California
	Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> 0C22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> 0C22A6254 Rev 1
	Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
	Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> 0C22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> 0C22A6254 Rev 1
	Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> OC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>M0126.7775</u> . and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASNE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
	Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> OC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>M0126.7775</u> . and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASNE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
* <u>5</u> E	Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>MO18646</u> Certification of Shop Inspection I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>North Carolina</u> and employed by <u>Department of Labor of State Of North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>State of North Carolina</u> have inspected the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate. neither the Inspector nor his employer makes any warranty, expressed or implied. concerning the part described in the Partial Data Report. Furthermore, neither the Inspector on or his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or concerted with this inspection. <u>Cif.S. IMF</u> <u>Museu f</u> <u>Museu f</u> <u>Not 1231, Ohio, WC 3686 PA</u> National Board, State. Province And No. Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and Number of sheets is recorded in Item 3. "REMARKS".
* <u>e</u> F T	Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshlo</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I. the undersigned, holding a valid cormission by the National Board of Boiler and Pressure Inspectors 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>M018646</u> of <u>State of North Carolina</u> have ad state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate. neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>Carif. 1975</u> <u>Morth Carolina</u> Matter <u>Notional Board</u> Notion Carolina carolina content <u>Notion</u> Carolina have <u>Date</u> . <u>Notional Board</u> State. Province And No.

ی م م

) ふ!

FORM N-2 ( back )

See - -

**.** 7

ъż

); ;

475 475 4 7 4 7 4 ц

ويتر المراجع الأ

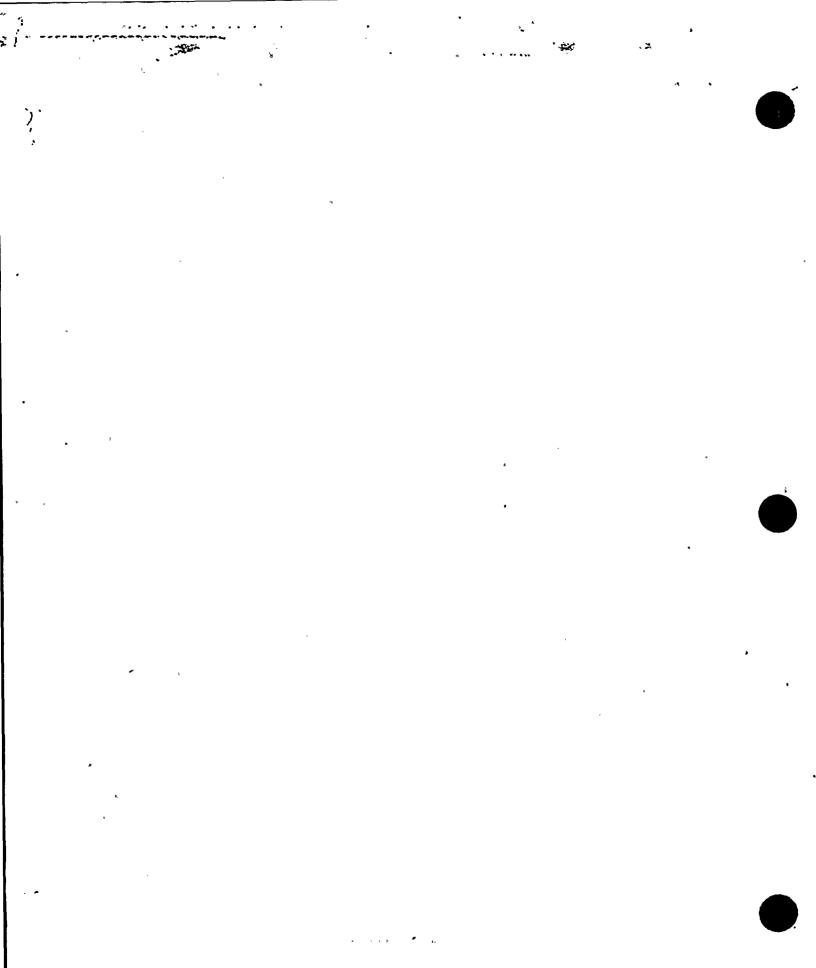
1

items 4-8 Incl. to be completed for sin	gle wall vessels, jacket:	s vessels, or shells of heat	exchangers.
4. Shell: Material T.S (Kind & Spec. No.) (Min. of Ran	Thickness in. Al	6	
S. Seams: Long	н.т.		Efficiency%
Girth	н.т.		No. of Courses
5. Heads: (a) Haterial	T.S	(b) Material	T.S
Location ( Top Crown Bottom, Ends ) Thickness Radius (a)		Apex Angle Radius	Flat Side to Press. Diameter ( conv. or conc. )
If removable, bolts used	al, Spec. No., T.S. Size Number)		(Describe or atlach sketch)
7, Jacket Closure:(C	escribe as ogee and weld, bar, etc. If i	ar give dimensions, if bolts, describe or sim	Nch )
n		Char	by Impact ft-lb
8. Design pressure 1250	psi at	<u> </u>	emp of F
Itams 9 and 10 to be completed for tube			
3. Tube Sheets: Stationary. Materia Floating. Materia	(Knd & Soec. No.) Oia	(Subject to pressure) (Subject to pressure) Thickness	in. Attachment
10. Tubes: Material	0.D in. Thic	kness inches or gage.	Number Type (Str. or U)
Items 11 - 14 incl. to be completed for	inner chambers of jacke	ted vessels, or channels of	heat exchangers.
11. Shell: Material T.S. (Kind & Spec. No.) (Min. of Par	Thickness in. Al		
12. Seams: Long	1		Efficiency%
Girth	н.т.		No. of Courses
13. Heads: (a) Material	T.S	(b) Material	ĭ.s
Crown Location Thickness Radiu (a) Top.bottom.ends		Concial Hemispherica Apex Angle Radius	1 Flat Side to Press. Diameter ( conv. or conc. )
(b) Channel If removable, bolts used (a)	(b)(c)	Other fastening	(Describe or stach sketch)
·	-		Veight
2		٥	
14. Design pressure	psi at	F at t	етр of F
Items below to be completed for all ve			
15. Safety Valve Outlets: Number	Size	Loca	tion
15. Nozzles: Purpose (iniet. Outlet, Drain) Number	Dia, or Size Type	Material Thickness	Reinforcement Matenal How Attached
<ol> <li>Inspection Manholes, No.</li> <li>Openings: Handholes, No.</li> <li>Threaded, No.</li> </ol>		Location	
ið. Supports: Skirt Lugs (Yes or No)	Legs	(Number) Other	•) Attached(Where & How)
<ol> <li>If Postweid Heat-Treated.</li> <li>List other internal or external pressure with coince</li> </ol>	ient temperature when applicable.	1,	
	Page <u>190</u>	_of <u>_218_</u>	

٠

FORM NIS-2 ATTACHMENT SHEET 61 OF 79 WD#95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) • 2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) DECATUR, AL 35609-2000 (b) Manufactured for : _ ( Name and Address of N Certificate Holder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : A5285 _ Nat'l Bd. No. ___ N/A (a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D. L. Peterson</u> (b) Description of Part Inspected: <u>Control Rod Drive</u>, Model # 7RDB144FG005 (c) Applicable ASME Code: Section III. Edition 1974, Addenda Date W75. Case No. N207 1361-2 Class 1 3. REHARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 16689274P001. SA182 - F316 3/8" thick x 1 1/16" OD 2. Indicator Tube 166B9313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113 wall thickness 1.065° max. dia. Reactor 3. Plug 159A1176P001 Vassal SA182 - F304 Thimble Code Meld 1/4" thick x 0.812" OD P501P102 23 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. Code Weld 6. Ring Flange 114B5122P002, P003 P50YP102 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID 7. Cap Screw 117C4516P002 SA193 - 86 6 ea. 1/2" dia. on 4 1/8" bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" dia. Code Neld P501P102 6 Rolled before 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia. Page 191 of 218

- **38**30.



-----

`

For a MISS 2 Armender     Sure & & or Fit     Sure & & or For & & & & & & & & & & & & & & & & & & &	******	n januar an un un un un un un januar au Antibettur	
We are applied by the Frontistion of the ASEE Code Status, Social BL, BLY.         A required by the frontistion of the ASEE Code Status, Social BL, BLY.         A manufactured a Certified by :: <u>General Electric Company Muclear Enterny (SEME)</u> .         2177 (Semi data datases of BHT Certificate Bulker; Semi data datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificate Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases of BHT Certificates Bulker; Semi datases		FORM NIS-2	ATTACHMEN
FORM MAY NOT CERTIFICATE MOLDERSY DATA REPORT FOR NUCLEAR PART AND APPUNTTENANCESY		SHEET 62 OF	= 79
<pre>FORM M.2.NPT CERTIFICATE HOLDERSY DATA REPORT FOR NUCLEAR PART AND APPUIRTENANCES' As required by the Provision of the ASKE Code Rules, Social III, Div. I "Namufactured &amp; Certified by : <u>General Electric Company Nuclear Entropy (GE-NE)</u> <u>1117 Centrols Hamma Packas &amp; HTT Centrificate Bolder</u> (ten and address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of HTT Centrificate Bolder) (ten address of ten ten address of HTT Centrificate Bolder) (ten address of ten ten address of HTT Centrificate Bolder) (ten address of ten ten address of HTT Centrificate Bolder) (ten address of ten tenposite) (ten address Boy the Source Boy ten address of ten address of ten tenposite) (ten address boy ten address of ten tenposite) (ten address boy ten address of ten tenposite) (ten address boy ten address of ten tenposite) (ten address of ten address boy ten address of ten address of ten tenposite) (ten address of ten address boy ten address of ten tenposite) (ten address ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten address of ten a</pre>			229-001
117 Castin Harmo Road, Willington, North Casoling 28401 (Rem ad Address of BT Contributes Bolder :         ()       DECATING AL 35602-2000 (Rem ad Address of B Certificate Bolder :         ()       International Component :         ()       International Component :         ()       International Component :         ()       International Component :         ()       International Component ::         () <t< td=""><td></td><td>FORM N/2 NRT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPUR</td><td>TENANCES*</td></t<>		FORM N/2 NRT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPUR	TENANCES*
<pre>("Heas and Addesse of PT Certificate Bolder ) () Manufactured for : <u>NA DECATUR A 35509-2000 () Reas and Address of B Certificate Bolder for completed muchaer component ) () Identification - Certificate bolder's Sind of Part : <u>A5503</u> () Constructed According to Draving No: <u>76955346009 Roy 9</u> Dep. Prepared by <u>D.L.Pellevson</u> () Description of Part Inspector () <u>Control Read Others Model # 7RDB14456005 () Description of Part Inspector () <u>Control Read Others Model # 7RDB14456005 () Applicable ASME Code: Section III , Edition 1974. Addenda Data <u>WTS</u>, Case No. <u>N207 1361-2</u>, Class <u>1</u> . REMARCS: <u>Standard part for uses with Reactor. Hydrostatically issted at 1825 psi.min () Baled description of services for which component was destand )</u></u></u></u></pre>		Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)	
<pre>(*mes and Address of * Continuent Balder for completed notifier component ) (*mes and Address of * Continuent Balder for completed notifier component ) (* Identification - Certificate Holder's SiM of Part : <u>A5433</u>Maff Bd. No. <u>N/A</u> (a) Constructed According to Oraving No: <u>TESESS240003 Rev 9</u>, by, Prepared by <u>D. Peterson</u> (b) Description of Part Inspected: <u>Control Rod Drive , Model # 7RDB144F6005</u> (c) Applicable ASME Code: Section III . Edition <u>1974</u>. Addends Date. <u>WT5</u>. Case No. <u>NEOT 1361:2</u> Class <u>1</u> . REMARKS: <u>Shandard part for uses with Reactor, Hydrostatically tested at 1825 psd. min.                                     </u></pre>	•	<u>2117 Castle Hayne Road, Wilmington, North Carolina 28401</u> ( Name and Address of NPT Certificate Bolder )	
<ul> <li>(a) Constructed According to Drawing No: <u>766E534G008 Rev 9</u> brg. Prepared by <u>D_LPeterson</u>.</li> <li>(b) Description of Part Inspected: <u>Control Rod Drive, Model # TADB144F6005</u>.</li> <li>(c) Applicable ASKE Code: Section III. Edition <u>1974</u>. Addenda Date. <u>WT5</u>. Case No. <u>M207 1361:2</u> Class <u>1</u>.</li> <li>3. REMARCS: <u>Standard part for uses with Reactor. HydroStatically tossed at 1825 Del min.</u> (c) Exist description of service for which component was designed )</li> <li>Sheet 1 of 2</li> <li>We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable designed Specification and Stress Report I.).</li> <li>We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable designed Specification and Stress Report I.).</li> <li>Date: (<u>09/26/35</u>. Signed <u>( RT Certificate Rolder To Part A. AM Certification and Stress Report I the appartenance is not included in the component design Specification and Stress Report I. (S) CM Apprecaptive.)</u></li> <li>Certification of ID esign for Appurtenance</li> <li>Design information on file at <u>GE Company</u>. San Jose. California</li> <li>Stress analysis report on file at <u>GE Company</u>. San Jose. California</li> <li>Stress analysis report certified by <u>BN Sridhar</u>. Prof. Eng. State Calif. Reg. No. <u>18245</u>.</li> <li><u>022264254 Nor 1</u></li> <li>State of Province of Model Gaudi Consistion by the National Board of Bailer and Presser Inspectors and/or the State of Province of Model Bay Construction of Design Cortification State Older And Stress Report in the State of the Province of Model Caroling A board of Bailer and Presser Inspectors and/or the State of Province of Model Caroling. And explored by <u>Defared of Bailer and Presser Inspectors and/or the State of Province of Model Caroling. And explored by <u>De</u></u></li></ul>		(b) Manufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> ( Name and Address of N Certificate Holder for completed nuclear component	at)
(b) Description of Part Inspected: <u>Control Rod Drive. Model # 7RDB144FG005</u> . (c) Applicable ASHE Code: Section III. Edition <u>1874</u> . Addends Date <u>WT5</u> . Case No. <u>N207 1361-2</u> Class <u>1</u> . <b>3.</b> REMARKS: <u>Standard part for USB with Reactor. Hydrostatically isoted at 1825 psi.min.</u> ( <u>BELed description of service for which component was designed</u> ) <u>( BELed description of service for which component was designed</u> ) <u>( BELed description of service for which component was designed</u> ) <u>( BELed description of service for which component was designed</u> ) <u>( BELed description of service for which component was designed</u> ) <u>( BELed description of the ASHE Code Section III.</u> ( The applicable description and Stress report if the apportenance is not included in the component being Specification and Stress Report I of the apportenance is not included in the component being Specification and Stress Report J. ( <u>SC GA Representive</u> ) Certificate of Authorization Expires: <u>Stife/SE</u> Certificate Bolder ( <u>BET Company. San Joso</u> , California Stress analysis report on file at <u>GE Company. San Joso</u> , California <u>( EC246253 Rev. 2</u> ) <u>( Design information on file at <u>GE Company. San Joso</u>, California <u>( SC246253 Rev. 2</u>) <u>( Design specification certified by <u>BN.Sidhar</u>, Prof. Eng. State Calif. Reg. No. <u>18345</u>, <u>SC2462553 Rev. 2</u>) <u>( Design specification certified by <u>BN.Sidhar</u>, Prof. Eng. State Calif. Reg. No. <u>18345</u>, <u>SC2462553 Rev. 2</u>) <u>( Destification of Bhop Inspection</u>) <u>( SC161Cation of Shop Inspection</u>) <u>( SC266255 Rev. 2)</u>) <u>( Destification in by the National Board of Buler and Pressure Inspectors and/or the state or Province of <u>Month Carolina</u>, and employed by <u>Department of Labor of Shale OMONTh Carolina</u> have <u>and state that to the best of my knowledge and belief</u>, the HPI Certificate Holder mas constructive this part in <u>state of a pressure vessel description</u> <u>( Instra III Data Report on <u>III Joso</u>) <u>and state that to the best of my knowledge and belief</u>, the HPI Certificate Holder Max the stress or subjection and strest t</u></u></u></u></u>	2	. Identification - Certificate Holder's S/N of Part : Nat'l Bd. NoNA	
(c) Applicable ASHE Code: Section III. Edition 1974. Addends Date WT5. Case No. N207 1381-2 Class 1. ( brief description of service for WhiteStatically lessed at 1825 psi.min. ( brief description of service for which component was designed ) Sheet 1 of 2 Ve certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code control init. ( The applicable Designed Specification and Stress Report if the appurtenance is not included in stress Report if the appurtenance is not included in the code control on the KBH Code Section and Stress Report if the appurtenance is not included in the code control of the KBP Certificate Bolder. ( NPT Certification Bolder for parts. An MPI Certification Bolder for appurtenance) is responsible for for insihing a separate Design Specification and Stress Report if the appurtenance is not included in the code control Design Specification and Stress Report if the appurtenance is not included in the code control of the Stress Specification and Stress Report if the appurtenance is not included in the code control Design for Appurtenance. ( NPT N-1151) Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> Stress analysis report certified by <u>BN Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> . O22262553 Rev. 2 Certification of Shop Inspection In the addition of Molder of Design Specification Solo NonDiagon parts. A subscience of Molding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Molfin Canding.</u> and employed by <u>Department of Labor of Singer Molfing Jose California Labor of Molfing Labor of Molfing Jose California Labor of California Labor of Molfing Jose California Labor of California Labor of <u>Molfing California</u>. <u>Molfing Jose California</u> State or Province of <u>Molfin</u></u>		(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.Peterson</u>	_
3. REWARS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 DSJ.min.</u> (Exist description of service for which component was designed 3: Sheet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtanance at defined in the code correct are not the responsibility of the MPI Certificate holder for parts. An NPI Certification holder for appurtenance is not included in the component besign Specification and Stress Report 1: the appurtenance is not included in the component besign Specification and Stress Report 1: the appurtenance is not included in the component besign Specification and Stress Report 1: The appurtenance is not included in the component besign Specification of Design for Appurtenance (NTI Certification of Design for Appurtenance) Certificate of Authorization Expires: <u>\$/16/36</u> Certification of Authorization No. : <u>NPTN-1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose</u> . California Stress analysis report on file at <u>GE Company. San Jose</u> . California Stress analysis report certified by <u>BN Stidher</u> Prof. Eng. State Calif. Reg. No. <u>18345</u> . 2022A6253 Rev. 2 Ocza6253 Rev. 2 Design specification certified by <u>Edward Yoshio</u> Prof. Eng. State Calif. Reg. No. <u>18345</u> . 2022A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State Calif. Reg. No. <u>18345</u> . 2022A6254 Rev 1 Stress enalysis report certified by <u>Edward Yoshio</u> Prof. Eng. State Calif. Reg. No. <u>18345</u> . 2022A6254 Rev 1 Stress enalysis report certified by <u>Edward Yoshio</u> Prof. Eng. State Calif. Res. No. <u>18345</u> . 2022A6254 Rev 1 State of Province of Morth Caroling and exployed by <u>Department of Labor of State O North Caroling have accordance with the ASK Code Section III. Province of Morth Caroling in and exployed by <u>Department of Labor of State O North Caroling have</u> accordance with the Sing Code Section III. Province of North Caroling in province Stantare Mattenal back, State, Erovince A</u>		(p) Description of Part Inspected: <u>Control Rod Drive , Model # 7RDB144FG005</u>	*
( Brief description of service for which component was designed )  Sheet 1 of 2  We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASHE Code Section III. ( The applicable Designed Specification and Stress is responsible for furnishing i separate Design Specification and Stress Report if the applicable Designed Specification and Stress is responsible for furnishing i separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GENEW</u> ( Tr Cartificates Holder, 1 SC OA Representive ) Certificate of Authorization Expires: <u>6/15/96</u> Certification of Authorization No. : <u>MPTN-1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose California</u> Stress analysis report on file at <u>GE Company. San Jose California</u> DC22A6253 Rev. 2 Design specification certified by <u>BN Shidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M0186466</u> Certification of Shop Inspection I, the undersigned, holding a valid comission by the National Board of Boiler and Pressure Inspectors and/or the state of Province of Morth Calofina and Design & Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> State of Province of Morth Calofina and Design & MPT ertificate Holder in Sconstructed this part In spected the part of a pressure vessel described in this Partial Data Report on the sconstructed this part In spector with the ASH Code Section III. Spectar State and to the bast of max kondelog and bellef, the RPT Certificate Holder in Sconstructed this part In Sconstructed this Inspection. <u>-9/2.6. (FSS Joshing Lewen</u> ) Dete Inspector's Signature Supplemental sheets in form of lists, sketches or drawing may be used provided (1) Size is 8-1/2" × 11 ⁴ . (2) Information In 1-2 on this Data Report is Sineuti		(c) Applicable ASNE Code: Section III, Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N2071</u>	<u>61-2</u> Class <u>1</u>
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code corforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress is reponsible for furnishing is separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ).         Date: <u>O9/26/35</u> Signed <u>GENE</u> By <u>Stress Report if the appurtenance is not included in the component Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report if the appurtenance is not included in the component Design Specification of Design for Appurtenance         Certification of Design for Appurtenance         Design information on file at <u>GE Company. San Jose. California</u>         Discuss analysis report on file at <u>GE Company. San Jose. California</u>         Discuss analysis report certified by <u>BN Stidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>.         O22A6253 Rev. 2         Design specification certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>.         Ozther of Province of <u>Morth Caroling</u> and engloyed by <u>Dopartenance of State on North Caroling</u> have inspected the part of a pressure state bact the base construction in spector.        </u>	3	. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed )	
<pre>conforms to the rules of construction of the ASHE Code Section III. ( The applicable Designed Specification and Stress is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report I. Date: <u>09/26/95</u></pre>			. Sheet 1 of 2
Certification of Design for AppurtenanceDesign information on file atGE Company, San Joso, CaliforniaStress analysis report on file atGE Company, San Joso, CaliforniaDC22A6253 Rev. 2Design specification certified byB.N. SridharPosign specification certified byB.N. SridharProf. Eng. State Calif. Reg. No. 18345DC22A6254 Rev 1Stress analysis report certified byEdward YoshioProf. Eng. State Calif. Reg. No. MO18646Certification certified by Edward YoshioProf. Eng. State Calif. Reg. No. M018646Certification of Shop InspectionI, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of Morth Carolina, and employed by Department of Labort of Morth Carolina have inspected the part of a pressure vessel described in this Partial Data Report on State or Morth Carolina, and employed by Department of Labort of Morth Carolina have inspected the Part of a pressure vessel described in this Partial Data Report on State or Province of Morth Carolina have inspected the the State colsection III.Ay signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector on rise employer tail be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection's SignatureMatterMatterNc 1231, Ohio, WC 3686 PA Inspector's SignatureDateMatterNational Board, State, Erovince And No.*Supplemental		conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specific Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> (NPT Certificate Holder (SC QA Representing)	<pre>cation and Stress for appurtenance: not included in /* )</pre>
Design information on file at <u>GE Company. San Jose, California</u> Stress analysis report on file at <u>GE Company. San Jose, California</u> Stress analysis report on file at <u>GE Company. San Jose, California</u> SC22A6253 Rev. 2 Design specification certified by <u>BN. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>MOIB646</u> <b>Certification of Shop Inspection</b> I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>Moint Carolina</u> have and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASNE Code Section III. By signing this certificate, neither the Inspector on rhis employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection: <u>19/26</u> , <u>1995</u> <u>Jumes P</u> <u>Kunn</u> Netional Board, State, Frovince And No. *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (17/14)	<b>–</b>		
Stress analysis report on file at <u>GE Company. San Jose. California</u> C22A6253 Rev. 2 Design specification certified by <u>BN. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> . DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> . <b>Certification of Shop Inspection</b> I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>Mine</u> this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report on <u>North Mine</u> and provide difference of any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>9726</u> , <u>1995</u> <u>Jurne f Europer</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>National Board</u> , State, Erovince And No. *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in 1tem 3. "REMARKS". (77/M)			
Discrete Stress analysis report certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> Discress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Discress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Iterss analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Discress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Iterss analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Iterss analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Iterss analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Iterss analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Iterss analysis report certified by <u>Edward Prof.</u> Fig. State <u>Calif.</u> Reg. No. <u>M018646</u> Iterss analysis report certified by <u>Edward Prof.</u> Fig. State <u>Calif.</u> Reg. No. <u>M018646</u> Iterss analysis report certified by <u>Edward Prof.</u> Fig. State <u>Calif.</u> Reg. No. <u>M018646</u> Iters and state that to the best of my knowledge and belief. the NPI Certificate Holder has constructed this part in accordance with the ASNE Code Section III.         By signing this certificate. neither the Inspector nor his employer makes any warranty. expressed or implied. Concerning the part described in the Partial Data Report. <u>Further the Inspector's Signature</u> <u>Nc 1231, Ohio, WC 3686 PA</u>		· · · · · · · · · · · · · · · · · · ·	-
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <b>Certification of Shop Inspection</b> I. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>777</u> , <u>775</u> , and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>77/26, 1995</u> <u>Jurons</u> <u>Euron</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>Date</u> <u>Netional Board</u> , State, Province And No. *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (77*)		DC22A6253 Rev. 2	-
Certification of Shop InspectionI. the undersigned, holding a valid cormission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on		DC22A6254 Rev 1	6
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>March Carolina</u> have and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>9766</u> , <u>1995</u> <u>Junne</u> <u>P</u> <u>E</u> <u>Nucree</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>National Board</u> , State, Province And No. *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".			
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>March Carolina</u> have and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>9/26, 1995</u> <u>Junne</u> <u>P</u> <u>E</u> <u>Nutrue</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>National Board</u> , State, Province And No. *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is $8-1/2^{m} \times 11^{m}$ , (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".		Certification of Shop Inspection	
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>9/26, 195 Jurne f Euron</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>Date</u> <u>Inspector's Signature</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>National Board, State, Province And No.</u> *Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (17/**)		I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspector State or Province of <u>North Carolina</u> and employed by <u>Department of Labor</u> of <u>State of North Car</u> inspected the part of a pressure vessel described in this Partial Data Report on <u>11</u> and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed thi	olina have
*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (17/10)	<b>n</b> N	By signing this certificate, neither the inspector nor his employer makes any warranty, expressed of concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his shall be liable in any manner for any personal injury or property damages or a loss of any kind arisi connected with this inspection.	employer
(17/10)		<u>7/26, 1995</u> Junne P. Eurone <u>NC 1231, Ohio, WC 3686 PA</u> Date <u>NC 1231, Ohio, WC 3686 PA</u> National Board, State, Province	And No.
Page <u>192</u> of <u>218</u>		Supplemental sheets in form of lists, sketches or drawing may provided (1) size is 8-1/2" x 11", (2) information in 1-2 on t Report is included on each sheet, and (3) each sheet is number number of sheets is recorded in Item 3. "REMARKS".	be used his Data ed and (¶/\))
	-	Pana 192 of 218	
	1		-

i

ه ر ه

FORM N-2 ( back )

3 A 4136 1 44

á é

•••

~ _____.

÷

1

ø

.

1 1

*.* 

****

مدوق قرموه از

- 500

						shells of heat e	•	
	•	No. ) (Min, of Range	Thickness Specified)	in. Al	lowance i	*		
•	Seams: Long		•					
	Girth						No, of Cour	
•	Heads: (a) Material	<u></u>		t.s	(b) Ma	iterial	1.s	
a)	Location ( Top Bottom. Ends ) Thickn		Radius	Ratio	Apex Angle		Diameter (c	e to Press. onv. or conc. )
5)	If removable, bolts use	.db			Other faster	ning	esonbe or attach sketch ;	
	Jacket Closure:	(Maleria)	I, Spec. No., 1.3. 3	size Number (		(0		, 
		(De	ecnbe as ogee an	d weid, ber, etc. #1	xer give dimensions, i			
	9						Impact	
•	Design pressure	1250	psi	at	575	F at tem	o of	F
	ns 9 and 10 to be comple							
	Sube Sheets: Stationar	ry, Material		01a		Thickness	in. Attacn	ment
	Floating.	, Material	(Xind & Spe	c. No.) Día	{ Subject to pressu	Thickness	In. Attach	(Welded, Bol ment
	Tubes: Material							
•								(Str. or U
e	ms 11 - 14 incl. to be o	completed for	inner chamb	ers of jacke	ted vessels, a	or channels of h	eat exchangers.	
	Seams: Long	No. ) ( Min. of Rang	e Specified) t H.T		R.T		Efficiency	<del></del>
	Girth						No. of Cour	
•	Heads: (a) Material _		<u></u>	1.5.		sterial <u>·</u>	I.S	
a)	Top, bottom, ends		Radius	Ratio	Apex Angle	Radius		:onv. or conc. )
.,	If removable, bolts use	ed (a)	(b)	(c)	Other	r fastening	(Describe or a	
							eight	·
	2				1	9	Impact	ft-lb °
•	Design pressure		F	osi at		Fat tem	p of	F
e	ms below to be completed	d for all ves	sels where a	pplicable.				
-	Safety Valve Outlets:	Number		Size		Locati	on	
•		Number	Dia, or Size	Туре	Material	Thickness	Peinforcement Material	How Attached
	Nozzles: Purpose (Inlet. Outlet, Drain )							•
	· •							• ••••••••••••••••••••••••••••••••••••
•	· •			3126	1	Location		
<b>.</b>	Cuter, Drah)	No		Size Size Size		Location	······	
<b>.</b>	Outer, Orah) Inspection Manholes, Openings: Handholes, Threaded, Supports: Skirt	No		Size Size		Location	· · · · · · · · · · · · · · · · · · ·	
•	Outer, Orah) Inspection Manholes, Openings: Handholes, Threaded, Supports: Skirt	No No No Lugs	(Number)	Size Size		Location Location ther	· · · · · · · · · · · · · · · · · · ·	

------FORM NIS-2 ATTACHMENT SHEET 63 OF 79 WO# 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I 1. Manufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u> 2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of NPT Certificate Holder ) DECATUR, AL 35609-2000 (b) Manufactured for : ( Name and Address of N Certificate Holder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : <u>A5438</u> _ Nat'l Bd. No. 🗕 N/A (a) Constructed According to Drawing No: 768E534G008 Rev. 9 Dwg. Prepared by D.L. Peterson (b) Description of Part Inspected: _____ Control Rod Drive , Model # 7RDB144FG005 (c) Applicable ASHE Code: Section III. Edition 1974. Addenda Date W75. Case No. N207 1361-2 Class 1 3. RENARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 166B9274P001 SA182 - F316 3/8" thick x 1 1/16" OD 2. Indicator Tube 166B9313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.065° max. dia. 1 Reactor 3. Plug 159A1176P001 Vossol SA182 - F304 Thimble Code Weld 1/4" thick x 0.812" OD P501P102 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37° thick x 9 5/8° OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia. Code Neld 6. Ring Flange 114B5122P002, P003 P501P102 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2º dia, on 4 1/8º bolt circle 8. Plug 175A7961P001 SA182 - F304 0.38° thick x 1.307° dia. . Code Neld P501P102 6 Rolled before 9. Nut 137C5934P001 9 XM - 19 SA479 1,30° thick x 2.62° dia. Page 194 of 218

and we are for a stream when we are

• · · ·

T

.

,

	the states of the second second second second second second second second second second second second second se	· · · ·
	- FORM NIS-2 ATTACHME	ENT
	SHEET 64 OF 79	
	W0#95-022229-001	
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I	r
L. 1	Manufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u>	
	2117 Castle Havne Road, Wilmington, North Carolina 28401 (Name and Address of NPT Certificate Bolder)	
	(b) Manufactured for : <u>TVA</u> <u>DECATUR. AL 35609-2000</u> (Name and Address of N Certificate Holder for completed nuclear component )	
,	Identification - Certificate Holder's S/N of Part : <u>A4448</u> Nat'I Bd. No. <u>N/A</u>	
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D. L. Peterson</u>	
	(b) Description of Part Inspected: <u>Control Rod Drive , Model # 7RDB144FG005</u>	
	(c) Applicable ASME Code: Section III , Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class	1
3. I	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.</u> (Brief description of service for which component was designed)	
	· Sheet 1 of	2
_	he component Design Specification and Stress Report ).	in
	ate: <u>09/26/95</u> Signed <u>GE-NE</u> By SC QA Representive ) ( NPT Certificate Bolder SC QA Representive ) ertificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u>	
	ate: 09/26/95 Signed <u>GE-NE</u> By SC QA Representive )	
C.	ate: 09/26/95 Signed <u>GE-NE</u> By SC QA Representive ) ( NPT Certificate Bolder SC QA Representive ) ertificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u>	
C.	ate: <u>09/26/95</u> Signed <u>GE-NE</u> ( NPT Certificate Bolder SC QA Representive ) ertificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u> Certification of Design for Appurtenance	
C 4	ate: <u>09/26/95</u> Signed <u>GE-NE</u> By SC QA Representive ) ertificate of Authorization Expires: <u>6/16/96</u> Certification of Memorization No. : <u>NPTN-1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>	
C.	ate: <u>09/26/95</u> Signed <u>GE-NE</u> ( NPT Certificate Bolder SC QA Representive ) ertificate of Authorization Expires: <u>6/16/96</u> Certification of <u>Authorization No.</u> : <u>NPT N - 1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company</u> , <u>San Jose</u> , <u>California</u> Stress analysis report on file at <u>GE Company</u> , <u>San Jose</u> , <u>California</u> DOC22A6253 Rev. 2	
C.	ate: 09/26/95 Signed <u>GE-NE</u> By SC QA Representive ) ertificate of Authorization Expires: 6/16/96 Certification of Authorization No. : <u>NPT N - 1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>	
	ate: 09/26/95	
	ate: <u>09/26/95</u> Signed <u>GE-NE</u> By <u>SC</u> QA Representive ) ertificate of Authorization Expires: <u>6/16/96</u> Certification of <u>Authorization No.</u> : <u>NPT N - 1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Bhop Inspection L. the undersigned. holding a valid commission by the National Board of Boiler and Pressure inspectors and/or the State or Province of <u>North Carolina</u> and employed by <u>Department of Labor of State of North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>5/15.</u> 1995.	
	ate: 09/26/95 Signed <u>GE-NE</u> By SC QA Representive ) ertificate of Authorization Expires: <u>6/16/96</u> Certificate Bolder Certification of Design for Appurtenance Design information on file at <u>GE Company</u> . San Jose, California Stress analysis report on file at <u>GE Company</u> . San Jose, California Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Bhop Inspection Certification by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Morth Carolina</u> and employed by <u>Department of Labor of State ON North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report on a loss of any kind arising from or connected with the inspection.	
	ate: 09/26/95 Signed <u>GE-NE</u> By SC QA Representive ) ertificate of Authorization Expires: 6/16/96 Certification of Arthorization No. : <u>NPT N - 1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Stidhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection	
	ate: <u>09/26/95</u> Signed <u>GE-NE</u> By SC QA Representive ) ertificate of Authorization Expires: <u>6/16/96</u> Certificate Bolder Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> D022265253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> D022265254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection L. the undersigned. holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State of North Carolina, and employed by <u>Department of Labor</u> of <u>State ON North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>MC 102310 Manner</u> for any personal injury or property damages or a loss of any kind arising from or connected with this inspection:	
	ate: 09/26/95 Signed <u>GE-NE</u> By SC QA Representive ) ertificate of Authorization Expires: 6/16/96 Certification of Authorization No. : <u>NPTN-1151</u> Certification of Design for Appurtenance Design information on file at <u>GE Company. San Jose. California</u> Stress analysis report on file at <u>GE Company. San Jose. California</u> Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>183455</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M0186465</u> Certification of Shop Inspection I. the undersigned. holding a valid cormission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>North Carolina</u> and employed by <u>Department of Labor</u> of <u>State O North Carolina</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>M75.</u> <u>1995</u> , add state that to the best of my knowledge and belief. the NPI Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warnety, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>A/56.1955</u> <u>Junce</u> <u>P</u> <u>Cause</u> <u>NC 1231, Ohio, WC 3686 PA</u> <u>National Board, State, Province And No.</u>	

				FO	RM N-2	( back )	,		
ten	s 4-ð Ind	cl. to be comp	leted for singl	e wall vess	els, jackets	vessels, or	shells of heat	exchangers.	
٩.	Shell: 1	Haterial (Kind & Spec	T.S. No.) (Min. of Range	Specified (	in. All			in. Length	
5.	Seams: 1	Long	ł	u.r.)		R.T		Efficiency	X
		Girth		ι.τ.' <u></u>		R.T		No. of Course	s
ŝ,	reads:	(a) Material _		1	.s	(b) Xa	terial	r.s	
(a)	Location Bottom,	(Top Ends) Thick	Crown ness Radius	Knuck le Radius	Elliptical Ratio	Concial Apex Angle	Radius	Flat Side Diameter (cor	v. or conc. )
(b)	If remov	able, bolts us	ed			Other faster	ning	Describe or attach sketch }	
			( Material,	Spec. No., T.S. S	ze Number)		(1	Describe or attach sketch }	
/,	Jainer U		(D••	cribe as ogee and	wold, bar, etc. # t	bar give dimensions, i	f bots, describe or sheld Drop V Charpy	h) /eight / Impact	ft-lb
з.	Design p	2 pressure	1250	psi	at	575	Fatten	np of	F
_			eted for tube	sections					ı
¥.	Tupe She		iry. Material J. Haterial		. No. 1	I Subject to prese	ce 1	in. Attachm in. Attachm	(Weided, Boiled)
.C.	Tubes:	Haterial		0.0.	in. Thic	kness	_ inches or gage, h	(umber	Type(Sr.orU)
Iter	ns 11 - 1	14 incl. to be	completed for	inner chamb	ers of jacke	ted vessels,	or channels of I	heat exchangers.	
		Haterial (Kind & Spo Long	ic. No. ) (Min. of Range	H.T.	in. Al			t in. Length Efficiency _	
		Girth	=	н.т.'		R.T.		No. of Cours	es
13.	Heads:	(a) Material			T.S	(b) K	ateriai	T.S	······
(a)		tion Thic	Crown kness Radius	Knuck le		Concial Apex Angle	Hemispherical		to Press.
(0)	Channel If remov	vable, bolts u	sed (a)	<u>(b)</u>	(c)	Othe	r fastening		
		2					Drop	(Describe or mi Weight y Impact	;
14.	Design	pressure		P	si at		Fatte	mp of	F
!:e	ms below	to be complet	ed for all vess	els where a	pplicable.				
15.	Safety	Valve Outlets:	Number		Size		Locat	ion	
15.	Nozz les	Cutlet, Dram )	Number	Dia. or Size	Туре	Material	Thickness	Reinforcement Material	How Attached
:7.	Inspect Opening	is: Handholes	. No.		Size		Location		-
		Threaded,	No	<u> </u>	512e		Location	<b>*</b> *	·····
18.	Support	ts: Skirt	Lugs		_ Legs	(	)ther	Attached	
		{Y	es or No )	(Number)		(Number)	(Describe	)	(Where & How)

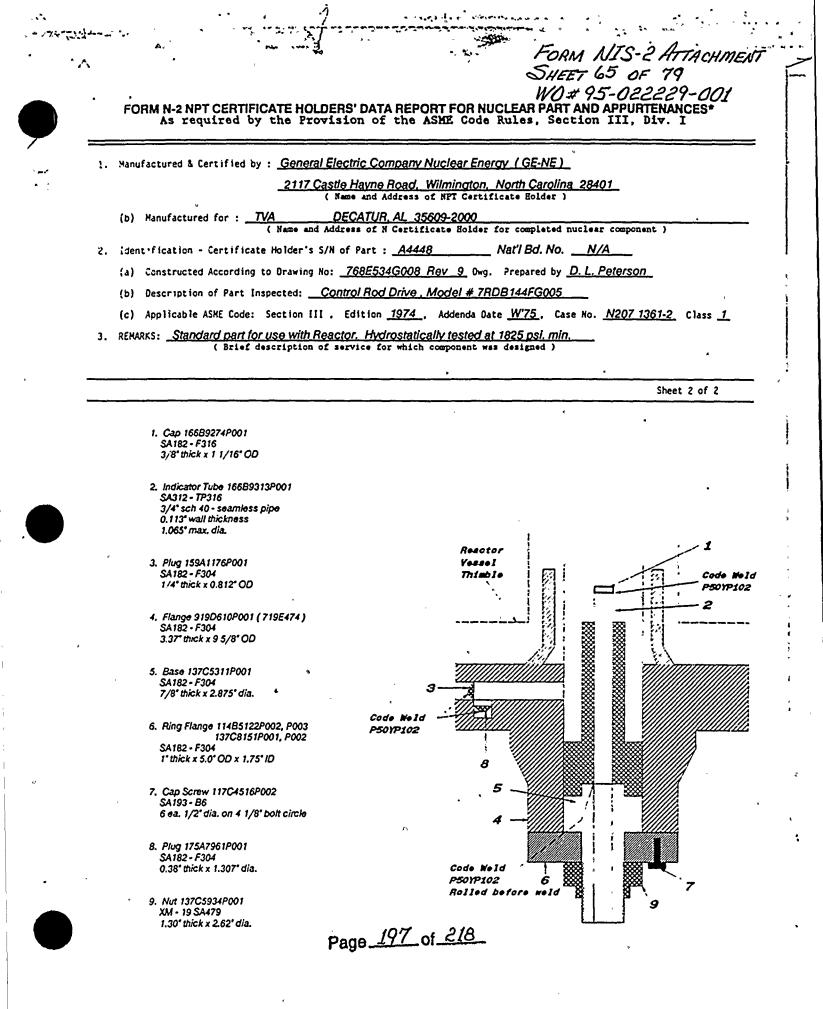
14.

. • У

Page 196 of 218

Street.

14 4-**8** 



رم

•

۰. ۹

•

:)

· Alter	
	FORM NIS-2 ATTACHMENT
•	SHEET 66 OF 79
	WD# 95-022229-001
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPO As required by the Provision of the A	
1. Manufactured & Certified by : <u>General Electric Company N</u>	luclear Energy (GE-NE)
	<u>Vilmington, North Carolina 28401</u> 2 NPT Certificate Bolder )
(b) Manufactured for : <u>TVA DECATUR, AL 356</u> ( Name and Address of N Certifi	09-2000 cate Holder for completed nuclear component )
2. Identification - Certificate Holder's S/N of Part : <u>A564</u>	1 Nat'l Bd. NoN/A
(a) Constructed According to Drawing No: <u>768E534G008</u>	Rev 9 Dwg. Prepared by <u>D. L. Peterson</u>
(b) Description of Part Inspected: <u>Control Rod Drive</u> , M	Aodel # 7RDB144FG005
(c) Applicable ASME Code: Section III , Edition <u>1974</u> ,	Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3. REMARKS: <u>Standard part for use with Reactor</u> , <u>Hydrostatica</u> (Brief description of service for which o	
	. Sheet 1 of 2
conforms to the rules of construction of the ASME Code Section Report are not the responsibility of the MPT Certificate Hold is responsible for furnishing a separate Design Specification the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> ( MPT Certificate Certificate of Authorization Expires: <u>6/16/96</u> Certificate	der for parts. An NPT Certification Holder for appurtenances and Stress Report if the appurtenance is not included in By
Certification of Desig	· · · · · · · · · · · · · · · · · · ·
Design information on file at <u>GE Company, San Jo</u>	
Stress analysis report on file at <u>GE Company</u> , San Jo	Δ
OC22A6253 Rev. 2 · Gesign specification certified by <u>B.N. Sridhar</u> Prof. E	
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Pro	
Certification of	Shon Ingrestion
I, the undersigned, holding a valid commission by the Nation State or Province of <u>North Carolina</u> and employed by <u>Dep</u> inspected the part of a pressure vessel described in this Pa and state that to the best of my knowledge and belief, the N accordance with the ASNE Code Section III. By signing this certificate, neither the Inspector nor his concerning the part described in the Partial Data Report. F shall be liable in any manner for any personal injury or pro connected with this inspection.	al Board of Boiler and Pressure Inspectors and/or the <u>artment of Labor</u> of <u>State of North Carolina</u> have rtial Data Report on <u>SA7</u> , <u>1975</u> . PI Certificate Holder has constructed this part in employer makes any warranty, expressed or implied. urthermore, neither the Inspector nor his employer
9/26. 1995 Juma PError Date Thesector's Signature	NC 1231, Ohio, WC 3686 PA National Board, State, Province And No.
*Supplemental sheets in form of lists, provided (1) size is 8-1/2" x 11", (2 Report is included on each sheet, and number of sheets is recorded in Item .	sketches or drawing may be used ) information in 1-2 on this Data (3) each sheet is numbered and 3. "REMARKS". (17/10)
Page <u>198</u>	• - · · ·

FORM N-2 ( back )

. 1

1,	Scell:	Material	T.:	s	Nominal Thickness	Co in. ۸۱	lowance	in. Dia	ft.	in. L	ength	ft
_			& Spec. No. ) (		1					566 i.a.		
5.	ieams:	Long			1							;
										-		<u> </u>
5.	rleads:	(a) Mater	ial			T.S	(b) Ha					
(4)	Location Bottom,	n ( Top Ends )	Thickness	Crown Radius	Knuck le Rad i us		Concial Apex Angle			Flat Diameter		Press. or conc. )
0)	If remov	vable, bol	ts used				Other faster	ning				
,					I. Spec. No., T.S.	Size Number)			(Dei	cobe or attach s	eketch )	
•	JACKEL	closure: _		(De	echte as ogee a	nd weid, ber, etc. If	ber gve dimensions, i	f bolts, deecnb	e or sketch ) Dana Va			
					,					Ignt Impact		ft-lb
•	Jesign j	2 pressure		1250	ps	i at	575	°F	at temp	of		°F
:e	ms 9 and	10 to be	completed	for tube	sections							
	Juce Sin	eets: Sta	tionary.	Material		Dia Dia	)	Thick	ness	in, A:	tacrment	
		Flo	ating.	Material	, Xind & So	e⊆.No.) Dia	) . (Subject to pressu	~) Thick	ness	in. ^ At	ttachment	(Welded, Boll
							kness					
te	ms 11 -	14 incl. t	o be compl	eted for			eted vessels, (	or channel	s of hea	at exchange	ers.	• • •
	Shell:	Haterial (Mine	T. 1£ Spec. No. ) (	S	Nominal Thickness (e Specified)	Co in. A1	eted vessels, orrosion llowance R.T.	in. Dia	ft,	in. l	Length _	
	Shell:	Haterial (Kine	T. 1 & Spec. No. ) (	S (Min. of Rang	Nominal _ Thickness ge Specified) H.T. 	Co in, A1	nrosion Nowance R.T.	in. Dia	ft,	in. t Efficie	Length	
	Shell: Seams:	Haterial (Kine Long Gírth	T. 1 & Spec. No. ) (	S ( Min. of Rang	Nominal Ihickness je Specified) H.T. H.T.	in. Al	R.T.	in. Dia	ft,	in. נ Efficie אס. of	Length ency Courses	
2. 2.	Shell: Seams: "eads: Loca	Haterial (Kong Long Girth (a) Mater	T. 12 Scec. No. ) ( ia 1	S (Min. of Rang  Crown	Nominal Thickness ge Specified) H.T. H.T. Knuck le	in. Al	nrosion Nowance R.T.	in. Dia aterial Hemispne	ft,	in. l _ Efficie _ Xo. of T. Flat	Length ency Courses .S Side to	
····	Shell: Seams: "eads: Loca Co.Dot	Haterial (Kinn Long Girth (a) Hater tion tom,ends	T. 12 Spec. No.) ( ial Thickness	S. Min. of Rang Crown Radius	Nominal Thickness (Poched) H.T. H.T. Knuckle Radius	I.S	R.T. R.T. R.T. (b) H. Concial Apex Angle	in. Dia aterial Hemispne Radius	ft.	in. L Efficie No. of T Flat Diameter	Length ency Courses .S Side to	Press.
· · · · · · · · · · · · · · · · · · ·	Shell: Seams: "eads: Loca Channel If remo	Material (Kind Long Girth (a) Mater ton ton,ends vable, bol	T. 12 Spec. No.) ( ial Thickness	S. Min. of Rang Crown Radius	Nominal Thickness je Specfied) H.T. H.T. Knuck le Radius (b)	I.S	Concial Apex Angle	in. Dia aterial Hemispne Radius  fastenin	rıcai 9 Orop We Charpy	in. l Efficie No. of T. Flat Diameter  ight	Length Courses .S Side to ( conv.	Press. or conc. )
4)	Shell: Seams: "eads: Loca Co.Dot Channel If remo Design	Haterial (Kong Long Girth (a) Mater tion tom.ends vable, bol 2 pressure	T. 12 Score. No. ) ( 13 I 13 I Thickness  ts used (a	S. (Min. of Rang Crown Radius	Nominal Thickness je Specfied) H.T. H.T. Knuck le Radius (b)	in. Al	R.T. R.T. R.T. (b) H. Concial Apex Angle	in. Dia aterial Hemispne Radius  fastenin	ft.  rıcai  9 Orop We	in. l Efficie No. of T. Flat Diameter  ight	Length Courses .S Side to ( conv.	Press. or conc. )
3) 0)	Shell: Seams: "eads: Loca "op.Dot Channel If remo Design ms below	Material (Kond Long Girth (a) Mater tom, ends vable, bol pressure to be com	T. I & Score. No. ) ( jal Thickness  ts used (a pleted for	S (Min. of Rang Crown Radius 	Nominal Thickness ge Specified) H.T. H.T. Knuck le Radius 	in.       Cc         in.       All         J.S.	Prrosion llowance R.T. R.T. (b) M. Concial Apex Angle  Other	in. Dia aterial Hemispne Radius  r fastenin F	ft. rıcai g Orop We Charpy at temp	in. 1 Efficion NO. of T.  Diameter  ight  ight  of	Length Courses .S Side to ( conv.	Press. or conc. )
4))	Shell: Seams: "eads: Loca Jo, Dot Channel If remo Design ms below Safety	Haterial (Kong Long Girth (a) Mater ton tom.ends vable, bol pressure to be com Valve Out 1	T. I & Scec. No. ) ( ial ial Thickness ts used (a pleted for ets: Numb	S (Min. of Rang Crown Radius 	Nominal           Thickness           Speched)           H.T.           H.T.           H.T.           Knuck le           Radius           (b)	in.       Cc         in.       All         J.S.	Prrosion llowance R.T. R.T. (b) M. Concial Apex Angle  Other	in. Dia aterial Hemispne Radius  fastenin	ft. rıcai g Orop We Charpy at temp	in. t Efficie No. of T Diameter  ight impact of	Length Courses .S Side to ( conv.	Press. or conc. )
	Shell: Seams: "eads: Loca Jo, Dot Channel If remo Design ms below Safety	Material (Kond Long Girth (a) Mater tom, ends vable, bol pressure to be com	T. 12 Score. No. ) ( ial ial Thickness  ts used (a pleted for ets: Numb	S (Min. of Rang Crown Radius 	Nominal Thickness ge Specified) H.T. H.T. Knuck le Radius 	in.       Al         T.S.	Prrosion llowance R.T. R.T. (b) K. Concial Apex Angle  Othe	in. Dia	ft. rıcai g Orop We Charpy at temp	in. 1 Efficion NO. of T.  Diameter  ight  ight  of	Length Courses .S Side to ( conv.	Press. or conc. )
	Shell: Seams: "eads: Loca "co,Dot Uhannel If remo Design ms below Safety Nozzles	Haterial (Kono Long Girth (a) Mater tion tom.ends vable, bol pressure to be com Valve Outl : Purpose (Min Outlet, Drain	T. 1 & Score. No.) ( ial ial Thickness  ts used (a pleted for ets: Numb et. ) Num	S (Min. of Rang Crown Radius 	Nominal Thickness (b) Nominal Thickness Second H.T. L.T. Knuck le Radius (b) Sels where Dia or Sze	in. Al	Perrosion Ilowance R.T. R.T. (b) M. Concial Apex Angle Other Other Meterial	in. Dia	ft. ricai g Orop We Charpy at temp Location	in. l Efficion No. of T. Flat Diameter  impact of Reenforce Material	Length Courses .S Side to ( conv.	<pre>&gt; Press. . or conc. ) </pre>
	Shell: Seams: "eads: Loca "co,Dot Uhannel If remo Design ms below Safety Nozzles	Material (King Long Girth (a) Mater to Mater to be com Valve Out 1 : Purpose (Ma Outer, Drain Couter, Drain S: Handh	T. Sec. No.) ( ial ial Thickness  ts used (a  ts used (a )  ts used (a ) )  ts used (a ) ) )  ts s, No. o les, No.	S (Min. of Pang Crown Radius 	Nominal Thickness sceched) H.T. H.T. Knuck le Radius (b) sels where	in. Al	Derrosion Ilowance R.T. R.T. (b) H. Concial Apex Angle Other Other	in. Dia	ft. ricai g Orop We Charpy at temp Location	in. l Efficie No. of T. Fiat Diameter (Deecr ight Impact of Material	Length Courses .S Side to ( conv.	<pre>&gt; Press. . or conc. ) </pre>

I - I Postweid Heat-Treated,

 $2 \mbox{-} kist other internal or external pressure with coincident temperature when applicable.$ 

Page <u>199</u> of <u>218</u>

******

~ 4

)

. .

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

1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)

> <u>2117 Castle Hayne Road, Wilmington, North Carolina 28401</u> (Name and Address of NPT Certificate Bolder)

FORM NIS-2 ATTACHMENT

WD#95-022229-001

SHEET 67 OF 79

(b) Manufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> (Name and Address of N Certificate Holder for completed nuclear component)

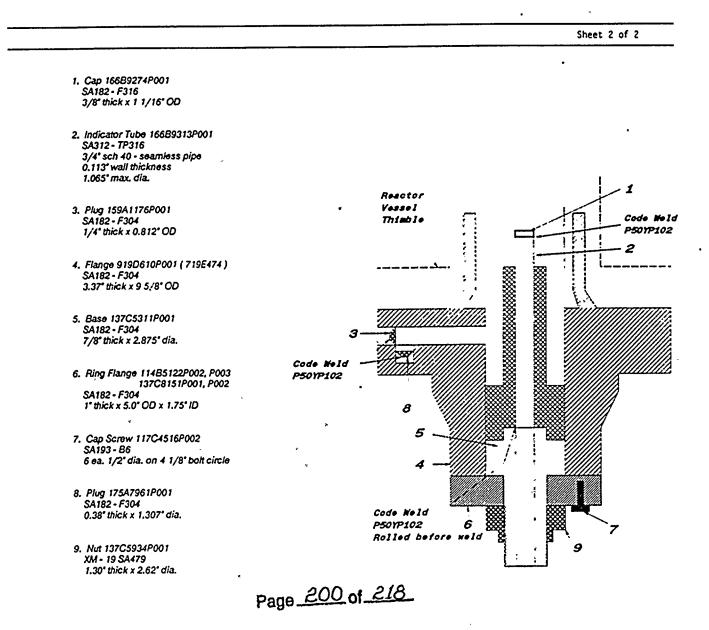
2. Identification - Certificate Holder's S/N of Part : <u>A5641</u> Natl Bd. No. <u>N/A</u>

(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Peterson

(b) Description of Part Inspected: <u>Control Rod Drive</u>, Model # 7RDB144FG005

(c) Applicable ASHE Code: Section III. Edition <u>1974</u>. Addenda Date <u>W'75</u>. Case No. <u>N207 1361-2</u> Class <u>1</u>

3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed)



1 · ·

r ,

60

W

•

1

1

• 2

			SHEET 68	OF 14
		2.1974		22229-001
FORMA-2 NPT CERT	FICATE HOLDERS' DA	TA REPORT FOR	NUCLEAR PART AND APP B Rules, Section III	URTENANCES* , Di <del>v</del> . I
nutretured & Certified	by : <u>Genoral Electric C</u>	ompany Nuclear Fu	el & Components Manufacti	uring (GENF&CM)
	_2117 Castle Hayn ( Heme and	e Road. Wilmington Address of EFT Certs	North Carolina 28401	
Manufactured for : _	TVA Chattano	oga. Tennessee 37-	102-2127	ment )
				<u></u>
Description of Part	Inspected: <u>Control Ra</u>	d Drive . Model # 7	RDB144FG005	
) Applicable ASHE Code	: Section III , Editio	n <u>1974</u> . Addenda i	Date <u>W75</u> . Case No. <u>N20</u>	7 1361-2 Class 1
WRKS: <u>Standard part</u> ( Brist	or use with Reactor. H description of service	<u>constatically tasted</u> for which component	at 1825 psi. min mas designed )	
	c		11	
		· · ·		Sheet 1 of 2
e component Design Spec :e: <u>11/19/92</u>	fication and Stress Repo Signed <u>GE-NE</u> ( MPT C	rt ). B <u>G - NF &amp; CM - OA</u> artificato Bolder )	By ( St. CA Australi	ative )
•				
		-		
-				••••••••••••
			_	
C22A6254 Rev 1 tress analysis report c	ertified by <u>Edward Yo</u>	<u>shio</u> Prof. Eng. S	tate <u>Call.</u> Reg. No. <u>MO1</u>	8646
	Cartificat	ion of Shon	Inspection	
tate on Province of _6 nspected the part of a nd state that to the be coordance with the ASME	ing a valid commission by <u>Th Caroling</u> and employ- ressure vessel described as of my knowledge and be Code Section ILL.	y the National Board yed by <u>Department</u> d in this Partial Dat alief, the NPT Cartin	of Boiler and Pressure Inspo of Labor of <u>State of North</u> is Report on <u>100</u> ficate Holder has constructed	30. <u>/972</u> . this part in
oncerning the part desc hall be liable in any m onnected with this insp	ribed in the Partial Data anner for any personal i ection.	a Report. Furthermoi njury or property da	re, neither the inspector no mages or a loss of any kind	r his employer arising from or
11/29.199; Date	I frome PC	mature	NC 1231. Ohio. WC 3688 Rational Board, State, Prov	PA ince And No.
pplemental she ovided (1) siz port is includ mber of sheets	ets in form of e is 8-1/2" x ed on each she is recorded i	lists, sket 11", (2) info et, and (3) n Item 3. "R	ches or drawing m ormation in 1-2 o sach sheet is num EMARKS".	ay be used n this Data bered and (ग/भ)
		•		•
• • * *	. Page	201 of 21	8	
	A sequired to the sequired to the undersigned, he is analysis report of the sequires analysis report of the sequires analysis report of the sequires of the sequires of the sequires of the sequires analysis report of the sequires of the sequires of the sequires of the sequires of the sequires analysis report of the sequires of the sequires of the sequires of the sequires of the sequires analysis report of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires analysis report of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the sequires of the se	La required by the Provision of mutatured & Certified by : <u>Genoral Electric C</u> <u>2117 Castid Hayn</u> (Reme and Manufactured for : <u>TVA</u> <u>Chattano</u> (Reme and Address of tification - Certificate Holder's S/N of Part Constructed According to Drawing No: <u>768E5</u> Description of Part Inspected: <u>Control Re</u> ) Applicable ASHE Code: Section III. Edition MARKS: <u>Standard part for use with Reactor. Ho</u> (Exist description of the ASHE cortify that the statements in this report are forms to the rules of construction of the ASHE cort are not the responsibility of the MPT Cartificate Design Specification and Stress Report is: <u>11/19/92</u> Signed <u>GE-NE</u> (Exist description of ress analysis report on file at <u>GE Compan</u> Certification on file at <u>GE Compan</u> Stress analysis report certified by <u>Blorn Haab</u> 222A8253 Rev. 1 ress analysis report certified by <u>Edward Yi</u> ress analysis report for my personal i promoted with the ASHE Code Section III. <u>Jia 9</u> , <u>1993</u> <u>Marke</u> Code	As required by the Provision of the ASHE Code nutritured & Certified by : <u>Genoral Electric Company Nuclear Fus</u> 2117 Castio Hayne Road. Wilminoton (Hees and Address of Electricities Ended Constructed for : <u>TVA</u> <u>Chattancous Termessoe 37</u> . Constructed According to Drawing No: <u>76855346008 Rev 9</u> be Description of Part Inspected: <u>Control Rod Drive. Model # 7</u> ) Applicable ASHE Code: Section III. Edition <u>1974</u> . Addends 0 WAXS: <u>Standard part for use with Reactor. Hydrostatically tested</u> (Stee and the statements in this report are correct and this vasi- forms to the rules of construction of the ASHE Code Section III. ( ort are not the rules of construction of the ASHE Code Section III. ( ort are not the rules of construction of the ASHE Code Section and Stress component Design Specification and Stress Report ). e: <u>11/19/32</u> Signed <u>GE-NEEGNESSIGENESSOL</u> Call itrass analysis report on file at <u>GE Company. San Joso</u> . Call Excertification certified by <u>Blorn Haaberg</u> Prof. Eng. Sta <u>12226253 Rev. 1</u> ress analysis report certified by <u>Blorn Haaberg</u> Prof. Eng. Sta <u>12226254 Rev 1</u> ress analysis report certified by <u>Edward Yoshlo</u> Prof. Eng. Sta <u>12226254 Rev 1</u> ress analysis report certified by <u>Edward Yoshlo</u> Prof. Eng. Sta <u>12246254 Rev 1</u> ress analysis report certified by <u>Edward Yoshlo</u> Prof. Eng. Sta <u>12246254 Rev 1</u> ress analysis report certified by <u>Edward Yoshlo</u> Prof. Eng. Sta <u>12246254 Rev 1</u> ress analysis report certified by <u>Edward Yoshlo</u> Prof. Eng. Sta <u>11 Carciling</u> and employed by <u>Department for</u> assected the part described in the Partial Data Report. Furthermon the state that to the basis of my knowledge and ballef. The HPT Certification massected the part described in the Partial Data Report. Furthermon the lable in any memore for any personal injury or property dep procenting the part described in the Partial Data Report. Furthermon halt be liable in any memore for any personal injury or property dep procenting the part described in the Partial Data Report. S	cartify that the statements in this report are correct and this vessel part or appurtenance as forms to the reponsibility of the RFI Cartificate Holder for parts. An NFI Cartification is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance component Design Specification and Stress Report ). We: <u>11/19/32</u>

•

• •

.- ---

· `

\$022.1975

FORM M-2 ( back )

.

Items 4-8 Incl. to be completed for a	ingle wall vessels, jacket	s vessels, or shells of heat	exchangers.
I. Shell: Material T.S (Kind & Spee, No.) (Min. of R	Thickness in. Al	lowance in. Dia f	t in. Length ft in.
. Seams: Long	1 H.T.	R.T	EfficiencyX
			No. of Courses />
. Heads: (a) Haterial			
Location ( Top Crow	Knuckle Elliptical	Concial Hemispherical	Flat Side to Press.
Bottom, Ends ) Thickness Radii a)	a Radius Ratio	Apex Angle Radius	Diameter ( conv. or conc. )
TI LANDARDIA, DOILZ RIAG		Other fastening	
. Jacket Closure:	rial, Boos, No., T.S. Stoo Humber)		
			Veight ft-lb
. Design pressure 1250	psi at	<u></u>	mp of*F `
tems 9 and 10 to be completed for tu			
. Tube Sheets: Stationary. Hateri	01a01a	Thickness	in. Attachment
). Tube Sheets: Stationary. Hateri Floating. Materi	(RANE & BOOL MAL) 1 D1a	(Budjet to pressure) I Thickness	(Welded, Boked)
). Tubes: Material	0.D in. Thic	kness heres or gage.	
teme 11 - 14 incl. to be completed f			(8v. or U)
		· · · · · · · · · · · · · · · · · · ·	······
. Shell: MaterialT.S (Kind & Bpen. He.) (Min. of P	Thickness in. Al	ilowance in. Dia f	't In. Length ft In.
. Seams: Long	н.т.]	R.T	EfficiencyX
Girth	н.т.'	R.T	No. of Courses
. Heads: (a) Material	T.S	(b) Haterial	T.S
Crow Location Thickness Radi a) Top.bottom.ends	us Radius Ratio	Concial Hemispherical Apex Angle Radius	Diameter ( conv. or conc. )
If removable, bolts used (a)	(b)(c)		
		Drop Chart	Veight ft-lb
2	osi at	•	mp ofF
tems below to be comp. I for all y			
. Safety Valve Outlets: Number		Local	100
3. " Hozzles: Purpose (Iniet,			Peirforcement
Outlet, Drain } Number	Dis. or Size Type	Material Thickness	Meterial How ARached
		* ** *	
Inspection Maskalan Ka			
7. Inspection Manholes, No Openings: Handholes, No	\$1ze	Location	
8. Supports: Skirt Lug (Yee or No)	(Number)	(Number) (Describe	Attached
1 - Il Postuald Heat-Treated. 2 - List other internal or external pressure with coin	cident temperature when applicable.	· .	
	Page <u>202 o</u>	of <u>218</u>	
		'e	

WO # 95-02229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I

FORM NIS-2 ATTACHMENT

SHEET 69 OF 79

1. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)

2117 Castle Havne Road. Wilmington. North Carolina 28401 ( Name and Address of NFT Cartificate Bolder )

(b) Manufactured for : <u>TVA</u> <u>Chattanooga Tennessee 37402-2127</u> ( Hame and Address of M Certificate Bolder for completed nuclear component )

2. Identification - Certificate Holder's S/N of Part : _A3724______ Nat'l Bd. No. ___N/A___

(a) Constructed According to Drawing No: 7685534G008 Rev 9 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: <u>Control Rod Drive</u>, Model # 7RDB144EG005

(c) Applicable ASHE Code: Section III, Edition 1974, Addenda Date W75, Case No. N207 1361-2 Class 1

3. RENARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed )

Sheet 2 of 2 1. Cap 16689274P001 SA182 + F304 3/8" thick x 1 1/16" OD 2. Indicator Tube 16689310P001 SA312 - TP316 3/4" sch 40 - seamisss pipe 0.113" weil thickness 1.065" mex. die. 1 Resoter Y0000 I 3. Plug 159A1176P001 Codo NoId Thimble SA182 - F304 PBOYP102 1/4" thick x 0.812" OD 2 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" die. Code NoId 6. Ring Flenge 11485122P002, P003 PROYPIOR 137C8151P001, P002 SA182 - F304 1" thick x 5.0 . x 1.75" 10 7. Cap Screw 117C4516P002 SA193 - 86 6 es. 1/2" die. on 4 1/8" bolt circle 8. Plug 175A7981P001 SA182 - F304 0.38" thick x 1.307" die. Code NoId PROYP102 6 Nollod botoro wold 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.

Page 203 of 218

.

, .

•

, 9

та ._ту

U

• •

•.

. .

·

. .

	FORM NIS-2 ATTACHMENT SHEET 70 OF 79 WO# 95-022229-001
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I
-	1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
	2117 Castle Havne Road, Wilmington, North Carolina 28401 (Name and Address of NFT Certificate Holder)
	(b) Manufactured for : <u>TVA DECATUR, AL 35609-2000</u> (Name and Address of N Certificate Bolder for completed nuclear component)
	2. Identification - Certificate Holder's S/N of Part : Nat'l Bd. No NAt'l Bd. No
	(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.Peterson</u>
	(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
	<ul> <li>(c) Applicable ASKE Code: Section III, Edition <u>1974</u>, Addenda Date <u>W75</u>, Case No. <u>N207 1361-2</u> Class <u>1</u></li> <li>3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> <ul> <li>(Brief description of service for which component was designed)</li> </ul> </li> </ul>
_	. Sheet 1 of 2
	is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> By <u>USC GA Representive</u> ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u>
Γ	
	Certification of Design for Appurtenance
	Certification of Design for Appurtenance Design information on file at <u>GE Company, San Jose, California</u>
	<u>-</u>
	Design information on file at GE Company, San Jose, California
	Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> 9C22A6253 Rev. 2
	Design information on file at <u>GE Company. San Jose, California</u> Stress analysis report on file at <u>GE Company. San Jose, California</u> OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	Design information on file at <u>GE Company. San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> 9C22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1
	Design information on file atGE Company. San Jose, California
	Design information on file at <u>GE Company, San Jose, California</u> Stress analysis report on file at <u>GE Company, San Jose, California</u> OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> Certification of Shop Inspection I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>GZ 9.1995</u> , and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASKE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in personal injury or property damages or a loss of any kind arising from or

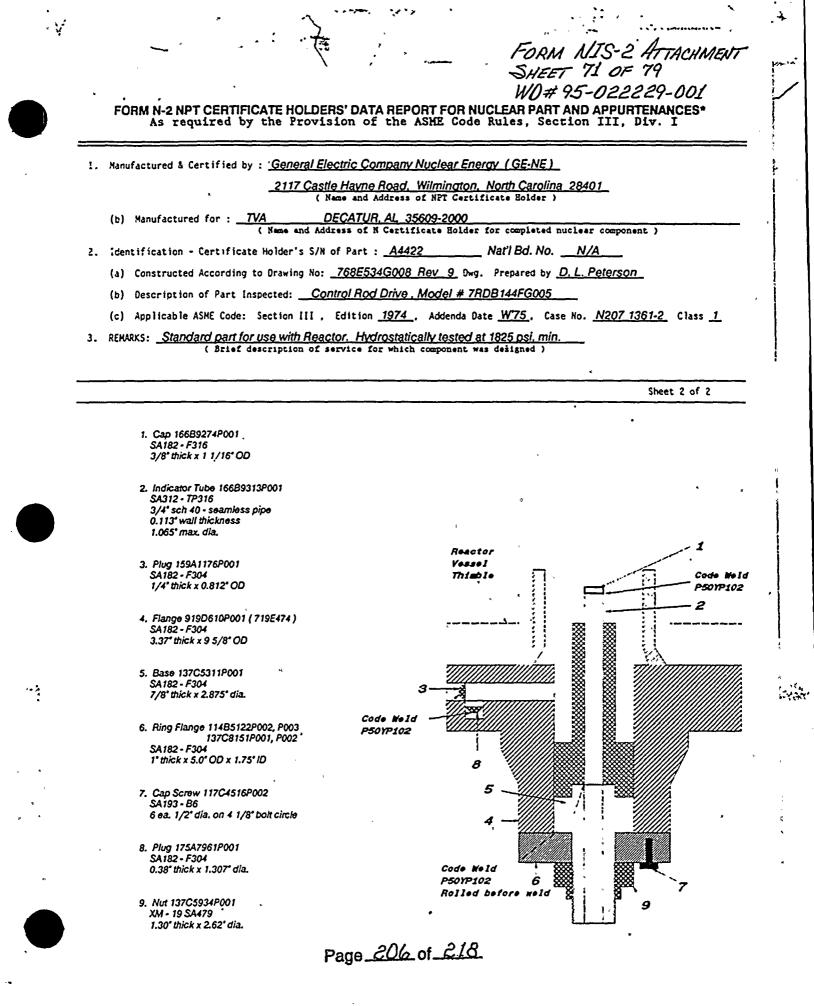
<u> </u>				<u> </u>			( back			<u></u>
Ite	ns 4-8 I	ncl. to be	completed	for sing	le wall ve	ssels, jacket	s vessels, or	shells of heat	exchangers.	
4	Shell:	Materíal (Xind	T.: 1& Spec. No.) (	S Min. of Rang	Nominal Thickness • Specified)	in. Al	rrosion lowance	in. Dia f	't 1n. Len	gth ft 1n.
5.	Seams:	Long			н.т.'		R.T.	÷	Efficienc	yx
					4					urses
6.	heads:	-								•
	Locatio Bottom,	on ( Top , Ends )		Crown	Knuck ]e			Hemispherical	Flat S	
(a) (d)		ovable, bol					Other fact	ening		······································
-				( Materia	I, Spec. No., T.S.	Size Number)			(Describe or attach shek	<del>л</del> )
7.	Jacket	Closure: _		(De	ecribe as ogen s	rnd weld, ber, etc. If	ber gwe dimensions	, if bolts, describe or she Drop	Ach )	
								Urop Charr	Weight by Impact	ft-lb
8.	Gesian	_ 2 pressure		1250	ps	i at	575	•	emp of	•
-		d 10 to te								
			•			<u> </u>	· · · · · · · · · · · · · · · · · · ·	Thickness	10 4773	chreat
э.	idbe si	Flo	ating.	Material	(Kind & Sp		(Subject to press	Thickness	in. Atta	chment(Weided, Botted) chment
:0.	Tubes:	Haterial			0.D	in. Thic	kness	inches of gage,	Number	Type(Str. or U)
Ite	ms 11 -	14 incl. t	o be compl	eted for	inner cham	bers of jack	eted vessels,	or channels of	heat exchangers	•
11.	Shell:		T.		e Specified )		prrosion Nowance	in. Dia i	ft in. Len	gth ft in.
12.	Seams:	Long			н.т	;,	R.T.	1	Efficienc	уХ
		Girth			н.т.'		R.T.		No. of Co	urses
13.	Heads:	(a) Mater	'ial			T.S	(b)	Material	T.S.	
(a)	Loc. Top.bo	ation ttom, ends	Thickness	Crown Radius	Knuck le Radius	Ellíptical Ratio	Concial Apex Angle	Hemispherica Radius	l Flat S Diameter (	ide to Press. conv. or conc. }
(b)	Channe If rem	l ovable, bol	ts used (a	)	(b)	(c)	Oth	er fastening	{Describe	
								Drop	(Describe) Veight Dy Impact	,
14.	Design	2 pressure				psi at		° Fat te	emp of	F
Ite	ms belo	w to be con				applicable.				
								Local	tion	
	-					0.20	<u></u>		Reinforcemen	
10.	102218	SI Purpose ( In Outlet, Draw	-	mber	Dia_ or Size	Туре	Materia	i Thickness	Material	t How Attached
¥				·						
:7.		tion Manho	oles, No.			Size		Location		
	Openin	gs: Handh Threa	noles, No. Ided, No.			Size Size		Location		
18.	Suppor								Attache	
	1 - # Por	stweid Heat-Treat								

2 - List other internal or external pressure with coincident temperature when applicable,

(3

Ŷ

Page <u>205</u> of <u>218</u>



	a second and a second	· + · · · · · · · · · · · · · · · · · ·
		FORM NIS-2 ATTACH
		Sheet 72 of 79
		WO#95-022229-0
FOR		HOLDERS'DATA REPORT FOR NUCLEAR PART AND APPURTENANCE Provision of the ASME Code Rules, Section III, Div. I
L. Manufac	ured & Certified by : <u>Gone</u>	eral Electric Company Nuclear Energy ( GE-NE )
	_2117	<u>7 Castle Havne Road. Wilmington. North Carolina 28401</u> ( Name and Address of NFT Certificate Eolder )
(b) Mar	nufactured for : <u>TVA</u>	DECATUR, AL 35609-2000 and Address of N Certificate Holder for completed nuclear component )
2. identif	ication - Certificate Holder*	's S/N of Part : <u></u>
(a) Cor	structed According to Drawin	ng No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D. L. Peterson</u>
(b) De:	cription of Part Inspected:	Control Rod Drive , Model # 7RDB144FG005
(c) App	licable ASHE Code: Section	III , Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class
. REMARKS:	<u>Standard part for use with</u> (Brief descriptio	<u>h Reactor. Hydrostatically tested at 1825 psi. min.</u> on of service for which component was designed )
		Sheet 1 c
1s respon	sible for furnishing a separa	the NPT Certificate Holder for parts. An NPT Certification Holder for appurt ate Design Specification and Stress Report if the appurtenance is not include Stress Person Person in the stress Report of the stress Report in the stress Report is not include
	nent Design Specification and	
Date: <u>09</u>	<u>/26/95</u> Sign	( NPT Certificate Holder ) (SC QA Representive )
Certifica	te of Authorization Expires:	6/16/96 Certification of Authorization No. : _NPTN-1151
	Certific	cation of Design for Appurtenance
Design 1		cation of Design for Appurtenance GE Company, San Jose, California
	nformation on file at	
Stress an DC22A625	nformation on file at malysis report on file at 3 Rev. 2	GE Company , San Jose , California
Stress a DC22A625 Design s DC22A625	nformation on file at malysis report on file at 3 Rev. 2 pecification certified by 4 Rev 1	GE Company , San Jose , California GE Company , San Jose , California
Stress a DC22A625 Design s DC22A625	nformation on file at nalysis report on file at 3 Rev. 2 pecification certified by 4 Rev 1 nalysis report certified by	<u>GE Company, San Jose, California</u> <u>GE Company, San Jose, California</u> <u>B.N. Sridhar</u> Prof, Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
Stress an DC22A625 Design sp DC22A625 Stress an I. the un State or inspected and state accordance By signin	nformation on file at	<u>GE Company, San Jose, California</u> <u>GE Company, San Jose, California</u> <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <u>rtification of Shop Inspection</u> commission by the National Board of Boiler and Pressure Inspectors and/or the and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have sel described in this Partial Data Report on <u>229</u> , <u>1995</u> . wledge and belief, the NPI Certificate Holder has constructed this part in n III.
Stress an DC22A625 Design s DC22A625 Stress an I, the un State or inspected accordand By signin concernin shall be	nformation on file at	GE Company, San Jose, California         GE Company, San Jose, California         B.N. SridharProf. Eng. State Calif. Reg. No18345        Edward YoshioProf. Eng. State Calif. Reg. No018646        Edward YoshioProf. Eng. State Calif. Reg. No
Stress an DC22A625 Design s DC22A625 Stress an I. the un State or inspected and state accordand By signin concernin shall be	nformation on file at nalysis report on file at 3 Rev. 2 becification certified by 4 Rev 1 halysis report certified by Cerr ndersigned, holding a valid c Province of <u>North Carolina</u> i the part of a pressure vess i that to the best of my know the with the ASME Code Section ng this certificate, neither ing the part described in the liable in any manner for any d with this inspection. <del>Madebreak 2005</del>	<u>GE Company. San Jose. California</u> <u>GE Company. San Jose. California</u> <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u> <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u> <u>State of North Carolina</u> have and employed by <u>Department of Labor</u> of <u>State of North Carolina</u> have sel described in this Partial Data Report on <u>229.1975</u> . wiedge and belief, the NPI Certificate Holder has constructed this part in n III. r the Inspector nor his employer makes any warranty, expressed or implied. Partial Data Report. Furthermore, neither the Inspector nor his employer
Stress an DC22A625 Design sp DC22A625 Stress an I. the un State or inspected and state accordance By signif concernir shall be connected Dat	nformation on file at nalysis report on file at 3 Rev. 2 becification certified by 4 Rev 1 halysis report certified by Cerr ndersigned, holding a valid c Province of <u>North Carolina</u> i the part of a pressure vess to the best of my know to with the ASME Code Section ng this certificate, neither ng the part described in the liable in any manner for any d with this inspection. <u>Mass. 1995</u> <u></u> Ins	GE Company, San Jose, California         GE Company, San Jose, California         B.N. Sridhar       Prof. Eng. State Calif. Reg. No. 18345
Stress and DC22A625: Design sp DC22A625: Stress and I. the un State or inspected accordance By signif concernir shall be connected Dat	nformation on file at nalysis report on file at 3 Rev. 2 becification certified by 4 Rev 1 halysis report certified by Cerr ndersigned, holding a valid c Province of <u>North Carolina</u> i the part of a pressure vess to the best of my know to with the ASME Code Section ng this certificate, neither ng the part described in the liable in any manner for any d with this inspection. <u>Mass. 1995</u> <u></u> Ins	GE Company, San Jose, California         GE Company, San Jose, California         B.N. Sridhar       Prof. Eng. State Calif. Reg. No. 18345

* 7 11.

Page <u>207</u> of <u>218</u>

ten	is 4-8 [nc]	. to be	completed	i for sing	gle wall ve	ssels, jacket	s vessels, or	shells of heat	exchangers.	•	
	Shell: Ma		T.			In. A1	rrosion lowance	in. Dia f	ft in.	Length	_ ft f
	Seams: Lo				1		στ		Effic	iency	¥
•					1						
								aterial		-	
	Location ( Bottom, En	Top		Crown		Elliptical	Concial Apex Angle	Hemispherica	Flat	Side to	
3) D)							Other facto	ning			
	If removat				I, Spec. No., T.S.	Size Number )	Viner rasie		(Describe or attact	h skutch )	
•	Jacket Clo	sure: _		(D	ecribe as ogee a	nd weld, bar, etc. If I	ber give dimensions,	# boits, describe or sim	kch) Veight	<u></u>	
		-						Charg	by Impact		ft-lb
<u>،</u>	Sesign pre	ssure		1250	ps	i at	575	Fatte	emp of		°F
	ns 9 and 10		· · · · ·								
·_	Tube Sheet	s: Sta Flo	tionary. ating.	Material Material	( IGnd & Sp	oia •c.No.) Dia	(Subject to presex	Thickness Thickness	in. /	Attachment Attachment	(Welded, Bolle
							•	inches of date	Number	Ţγ	×
•	Tubes: Ma	iteria)			0.0	in. Thic	kness	- encires or geger.			
te	ns 11 - 14	incl. t	obecomp	leted for	inner cham Nominal Thickness	bers of jacke	ted vessels.	or channels of	heat exchang	gers. ,	(Sv. or U)
te	ns 11 - 14	incl. ti iterial (Xinc	o be comp T 1 & Spec. No. )	leted for .S (Mn. of Reng	inner cham Nominal Thickness pe Specified) H.T.	bers of jacke Co in. Al	ted vessels. rrosion lowance	or channels of in. Dia	heat exchanger	gers Length iency	(50.07U) ftx
te	ns 11 - 14 Sheli: Ma Seams: Lo Gi	incl. to sterial (Mono ong irth	o be comp 	leted for .S (Min. of Ren	Inner cham Nominal Thickness P Specied) H.T. H.T.	bers of jacke Co in. Al	ted vessels. rrosion lowance R.T. R.T.	or channels of in. Dia i	heat exchang ft in. Effic No. or	gers. , Length iency f Courses _	(Str. or U)
ter	ns 11 - 14 Sheli: Ma Seams: Lo Gi	incl. to sterial (Mono ong irth	o be comp 	leted for .S (Min. of Ren	Inner cham Nominal Thickness P Specied) H.T. H.T.	bers of jacke Co in. Al	ted vessels. rrosion lowance R.T. R.T.	or channels of in. Dia	heat exchang ft in. Effic No. or	gers. , Length iency f Courses _	(Str.orU)
(ter	ns 11 - 14 Sheli: Ma Seams: Lo Gi Meads: (a Locatio Top.pottom	incl. tr iterial (Kinc ong irth a) Mater	o be comp T & Spec. No. ) ial Thickness	leted for .S (Min. of Pany	inner cham Nominal Thickness Specfied) H.T. H.T. Knuck le	bers of jacke Co in. Al T.S Elliptical	ted vessels. rrosion lowance R.T. R.T. (b) H	or channels of in. Dia aterial Hemispherica	heat exchang ft in. Effic No. or  1 Flat	gers. , Length iency f Courses T.S Side to	(sx.orU)
(ter ). (a)	ns 11 - 14 Sheli: Ma Seams: Lo Gi Heads: (a Locatio	incl. tr iterial (None ong irth b) Mater	o be comp T 1 & Spec. No. ) 1 a 1 Thickness	leted for .S (Min. of Rang  Crown Radius	Inner cham Nominal Thickness Specied) H.T. H.T. Knuckle Radius	bers of jacke Co in. Al T.S Elliptical	ted vessels. rrosion lowance R.T. R.T. (b) M Concial Apex Angle	or channels of in. Dia aterial Hemispherica	heat exchange ft in. Effic No. or  1 Flat Diameter	gers Length iency f Courses T.S Side to ( conv.	(\$x.orU) ftx x Press. or conc. )
(ter ). (a)	ns 11 - 14 Sheli: Ma Seams: Lo Gi reads: (3 Locatio Top.botom	incl. tr iterial (None ong irth b) Mater	o be comp T 1 & Spec. No. ) 1 a 1 Thickness	leted for .S (Min. of Rang  Crown Radius	Inner cham Nominal Thickness Specied) H.T. H.T. Knuckle Radius	bers of jacke Co in. Al T.S Elliptical	ted vessels. rrosion lowance R.T. R.T. (b) H Concial Apex Angle	or channels of in, Dia aterial Hemispherica Radius  fastening Drop	heat exchang ft in. Effic No. or  l Flat Diameter  Veight	gers Length f Courses f Courses Side to ( conv conbe or ettech #	(sx. or U) ftX X Press. or conc. ) 
(1) (1) (1)	ns 11 - 14 Sheli: Ma Seams: Lo Gi reads: (3 Locatio Top.pottom Channel if removal	incl. ti iterial (xino ong irth h) Mater on a,enos ble, bol	o be comp T a Spec. No.) ia 1 Thickness ts used (	leted for .S (Men. of Rang Crown Rad fus a)	inner cham Nomina 1 Thickness Specied) H.T. H.T. Knuck le Radius (b)	bers of jacke in. Al T.S Elliptical Ratio (c)	ted vessels. rrosion lowance R.T. R.T. (b) M Concial Apex Angle Othe	or channels of in. Dia aterial Hemispherica Radius r fastening Drop Charj	heat exchange ft in. Effic No. or  i Flat Diameter  Veight	gers. , Length f Courses f Courses T.S Side to ( conv conve or entech a	(Str. or U) ftx 
(1) (1) (1)	ns 11 - 14 Sheli: Ma Seams: Lo Gi MeadS: (a Locatio Top.bottom Channel if removal Design pro	incl. tr iterial (vono ong irth a) Mater on a, ends ble, bol 2 essure	o be comp T a Spec. No.) ia 1 Thickness ts used (	leted for .S (Min. of Pany Crown Radius	inner cham Nominal Thickness Second) H.T. H.T. Knuckle Radius	bers of jacke in. Al T.S Elliptical Ratio (c) psi at	ted vessels. rrosion lowance R.T. R.T. (b) H Concial Apex Angle	or channels of in. Dia aterial Hemispherica Radius r fastening Drop Charj	heat exchang ft in. Effic No. or  l Flat Diameter  Veight	gers. , Length f Courses f Courses T.S Side to ( conv conve or entech a	(Str. or U) ftx 
(ter	ns 11 - 14 Sheli: Ma Seams: Lo Gi weads: (a Locatio Top.Dotton Channel if removal Design pro	incl. tr incl. tr interial (None ong inth a) Mater on a, ends ole, bol essure o be com	o be comp T is Spec. No.) ial Thickness ts used ( pleted fo	leted for .S (Mm. of Rang Crown Radius a) a)	inner cham Nomina 1 Thickness Specied) H.T. H.T. Knuck le Radius (b) sels where	bers of jacke in. Al T.S Elliptical Ratio  (c) psi at applicable.	ted vessels. rrosion lowance R.T. R.T. (b) H Concial Apex Angle Othe	or channels of in. Diai aterial Hemispherica Radius r fastening Charg  F at to	heat exchange ft in. Effic No. or  I Flat Diameter  Veight  weight  emp of	gers. , Length f Courses T.S Side to ( conv conte or ettech a	(Sx. or U) ftx x Press. or conc. ) ft-lb F
1) () () ()	ns 11 - 14 Sheli: Ma Seams: Lo Gi meads: (a Locatio Top.Dottom Channel if removat Design pro	incl. tr incl. tr interial (None ong inth a) Mater on a, ends ole, bol essure o be com lve Outl	o be comp The Spec No.) ial Thickness ts used ( pleted fo ets: Num	leted for .S (Mm. of Rang Crown Radius a) a)	inner cham Nomina 1 Thickness Specied) H.T. H.T. Knuck le Radius (b) sels where	bers of jacke in. Al T.S Elliptical Ratio  (c) psi at applicable.	ted vessels. rrosion lowance R.T. R.T. (b) H Concial Apex Angle Othe	or channels of in. Dia aterial Hemispherica Radius r fastening Drop Charj	heat exchange ft in. Effic No. or  I Flat Diameter  Weight  Weight  weight  tion	gers. , Length iency f Courses T.S Side to ( conv conve or entech a	(Sx. or U) ftx x Press. or conc. ) ft-lb F
1) b)	ns 11 - 14 Sheli: Ma Seams: Lo G: reads: (3 Location Top.pottom Channel if removab Design pro- ns below to Safety Va Nozzles: f	incl. tr incl. tr interial (None ong inth a) Mater on a, ends ole, bol essure o be com lve Outl	o be comp The Spec. No.) ial Thickness ts used ( pleted fo ets: Num et.	leted for .S (Mm. of Rang Crown Radius a) a)	inner cham Nomina 1 Thickness Specied) H.T. H.T. Knuck le Radius (b) sels where	bers of jacke in. Al T.S Elliptical Ratio (c)  psi at applicable. Size  Type	ted vessels. rrosion lowance R.T. R.T. (b) H Concial Apex Angle Othe	or channels of in. Diai laterial Hemispherica Radius r fastening Drop Charry F at to Locat Thickness	heat exchange ft in. Effic No. or  I Flat Diameter  Veight  weight  emp of	gers Length f Courses T.S Side to ( conv cobe or attach a	(Str. or U) ftX X Press. or conc. ) ft-lb F
(a) (b)	ns 11 - 14 Sheli: Ma Seams: Lo Gi Heads: (a Locatio Top.ootton Channel if removab Design pro ns below to Safety Va Nozzles: f	incl. tr iterial (Konc ong arth a) Mater on a, ends ole, bol essure o be com lve Outl cutot, Dran	o be comp T T T T T T T T T T T T T	leted for .S (Men. of Ren Radius a) r all ves ber	inner cham Nomina 1 Thickness Poponed) H.T. H.T. Knuck le Radius (b) se ls where	bers of jacke in. Al T.S Elliptical Ratio (c)  psi at applicable.  Type	ted vessels. rrosion lowance R.T. R.T. (b) M Concial Apex Angle Othe Othe	or channels of in. Dia aterial Hemispherica Radius r fastening Drop Charry F at to Locat Thickness	heat exchange ft in. Effic No. or  l Flat Diameter  Veight by Impact emp of tion Review	gers. , Length f Courses f Courses T.S Side to ( conv conte or ettech = 	(Sw. or U) ftX Press. or conc. )  ft-lb ft-lb F
(a) (b)	ns 11 - 14 Sheli: Ma Seams: Lo G: reads: (3 Location Top.pottom Channel if removab Design pro- ns below to Safety Va Nozzles: f	incl. tr iterial (Konc ong arth a) Mater on a, ends ole, bol essure o be com lve Outl cutot, Dran	o be comp T T T T T T T T T T T T T	leted for .S (Men. of Ren Radius a) r all ves ber	inner cham Nomina 1 Thickness Poponed) H.T. H.T. Knuck le Radius (b) se ls where	bers of jacke in. Al T.S Elliptical Ratio (c)  psi at applicable.  Type	ted vessels. rrosion lowance R.T. R.T. (b) M Concial Apex Angle Othe Othe	or channels of in. Dia aterial Hemispherica Radius r fastening Drop Charry F at to Locat Thickness	heat exchange ft in. Effic No. or  l Flat Diameter  Veight by Impact emp of tion Review	gers. , Length f Courses f Courses T.S Side to ( conv conte or ettech = 	(Sw. or U) ftX Press. or conc. )  ft-lb ft-lb F
(te (a) (b) (b)	ns 11 - 14 Sheli: Ma Seams: Lo Gi reads: (a Location Channel if removab Design pro- ns below to Safety Va Nozzles: s Inspection Cpenings:	incl. tr iterial (Konc ong irth a) Mater on ma a, ends ole, bol essure o be com lve Outl outloaded, Drawn Manho Handh Threa	o be comp T T T Spec. No.) ial Thickness ts used ( pleted fo ets: Num et. Num et. Num et. No. les. No oles. No oles. No	leted for .S (Men. of Rem Radius a) r all ves ber umber	inner cham Nomina 1 Thickness P Specied) H.T. H.T. Knuck le Radius (b) se ls where Cua. or Stre	bers of jacke in. Al T.S Elliptical Ratio (c)  psi at (c)  psi at size Size Size Size	ted vessels. rrosion lowance R.T. R.T. (b) M Concial Apex Angle Othe Understand	or channels of in, Diai laterial Hemispherica Radius r fastening Drop Charry F at tr Locat Thickness Location Location	heat exchange ft in. Effic No. or  l Flat Diameter  (Dee Veight by Impact emp of tion Reveror Materna	gers. , Length f Courses f Courses T.S Side to ( conv conte or ettech =  conte or ettech =	(Sor. or U)ft
(ter (a) (b) (b)	ns 11 - 14 Sheli: Ma Seams: Lo Gi reads: (a Location Top.ootton Channel if removal Design pro- ns below to Safety Va Nozzles: s Inspection Gpenings:	incl. tr iterial (Konc ong irth a) Mater on ma a, ends ole, bol essure o be com lve Outl outloaded, Drawn Manho Handh Threa	o be comp T T T T T T T T T T T T T	leted for .S (Men. of Rem Radius a) r all ves ber umber	inner cham Nomina 1 Thickness P Specied) H.T. H.T. Knuck le Radius (b) se ls where Cua. or Stre	bers of jacke in. Al T.S Elliptical Ratio (c)  psi at (c)  psi at size Size Size Size	ted vessels. rrosion lowance R.T. R.T. (b) M Concial Apex Angle Othe Understand	or channels of in. Dia aterial Hemispherica Radius r fastening Drop Charry F at to Locat Thickness	heat exchange ft in. Effic No. or  l Flat Diameter  (Dee Veight by Impact emp of tion Reveror Materna	gers. , Length f Courses f Courses T.S Side to ( conv conte or ettech =  conte or ettech =	(Sor. or U)ft

•1

1

)

5 I

۰.

••

÷

... ×

		FORM NIS-2 ATTACHME
~ ~	<b>~</b>	SHEET 73 OF 79
•		WD#95-022229-001
	FORM N-2 NPT CERTIFICATE HOLDERS'	DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* n of the ASME Code Rules, Section III, Div. I
	Manufactured & Certified by : <u>General Electric</u>	a Company Nuclear Energy ( GE-NE )
••	¥	avne Road, Wilmington, North Carolina 28401
	• (Name,	and Address of NPT Certificate Holder )
		ATUR, AL 35609-2000 of N Certificate Holder for completed nuclear component )
2.	Identification - Certificate Holder's S/N of P	art : <u>A4604</u> Nat'l Bd. No. <u>N/A</u>
		<u>8E534G008 Rev. 9.</u> Dwg. Prepared by <u>D. L. Peterson</u>
	(b) Description of Part Inspected: <u>Control</u>	
		tion <u>1974</u> , Addenda Date <u>W'75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3.	REMARKS: <u>Standard part for use with Reactor.</u> (Brief description of servi	<u>Hydrostatically lested at 1825 psi. min.</u> ce for which component was designed )
s		· · · · · · · · · · · · · · · · · · ·
		Sheet 2 of 2
		•
	1. Cap 166B9274P001 SA182 - F316	
	3/8° thick x 1 1/16° OD	
	2. Indicator Tube 166B9313P001 SA312 - TP316	
	3/4" sch 40 - seamless pipe 0,113" wall thickness	•
	1.065° max. dia.	
	3. Plug 159A1176P001	Reactor Vessel
	SA182 - F304	Thimble Code
	1/4" thick x 0.812" OD	
	<b>,</b>	2
	4. Flange 919D610P001 (719E474) SA182 - F304	
	4. Flange 919D610P001 (719E474)	
	4. Flange 919D610P001 (719E474) SA182 - F304 3.37* thick x 9 5/8* OD 5. Base 137C5311P001	
	4. Flange 919D610P001 (719E474) SA182 - F304 3.37° thick x 9 5/8° OD	
	<ol> <li>Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD</li> <li>Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia.</li> </ol>	
	<ol> <li>Flange 919D610P001 (719E474) SA182 - F304 3.37* thick x 9 5/8* OD</li> <li>Base 137C5311P001 SA182 - F304 7/8* thick x 2.875* dia.</li> <li>Ring Flange 114B5122P002, P003 137C8151P001, P002</li> </ol>	
	<ol> <li>Flange 919D610P001 (719E474) SA182 - F304 3.37* thick x 9 5/8* OD</li> <li>Base 137C5311P001 SA182 - F304 7/8* thick x 2.875* dia.</li> <li>Ring Flange 114B5122P002, P003</li> </ol>	
	<ol> <li>Flange 919D610P001 (719E474) SA182 - F304 3.37* thick x 9 5/8° OD</li> <li>Base 137C5311P001 SA182 - F304 7/8* thick x 2.875* dia.</li> <li>Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304</li> </ol>	Code Held
	<ul> <li>4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD</li> <li>5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia.</li> <li>6. Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID</li> </ul>	Code Held
	<ol> <li>Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD</li> <li>Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia.</li> <li>Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID</li> <li>Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle</li> </ol>	Code Held
	<ul> <li>4. Flange 919D610P001 (719E474) SA182 - F304 3.37* thick x 9 5/8° OD</li> <li>5. Base 137C5311P001 SA182 - F304 7/8* thick x 2.875* dia.</li> <li>6. Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304 1* thick x 5.0° OD x 1.75* ID</li> <li>7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2* dia. on 4 1/8* bolt circle</li> <li>8. Plug 175A7961P001</li> </ul>	Code Held
	<ol> <li>Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD</li> <li>Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia.</li> <li>Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID</li> <li>Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle</li> </ol>	Code Held
	<ul> <li>4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD</li> <li>5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia.</li> <li>6. Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID</li> <li>7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle</li> <li>8. Plug 175A7961P001 SA182 - F304</li> </ul>	Code Held

.....

. . •

م ٠ ٠

· · ·

۰. • •

.

FORM NIS-2 ATTACHMENT. SHEET 74 OF 79 WO# 95-022229-001

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

• •

1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
2117 Castle Havne Road, Wilmington, North Carolina 28401
(b) Manufactured for : <u>TVA</u> <u>DECATUR, AL 35609-2000</u> ( Name and Address of N Certificate Holder for completed nuclear component )
2. Identification - Certificate Holder's S/N of Part : <u>A3613</u> Nat'l Bd. No. <u>N/A</u>
(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L. Peterson</u>
(b) Description of Part Inspected: <u>Control Rod Drive, Model # 7RDB144FG005</u>
(c) Applicable ASME Code: Section III, Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3. REWARKS: <u>Standard part for use with Reactor, Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed)
Sheet 1 of 2
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ).
Date: 09/26/95 Signed <u>GE-NE</u> By (SC QA Representive )
Certificate of Authorization Expires: 6/16/96 Certification of Authorization No. : <u>NPTN-1151</u>
Certification of Design for Appurtenance
Design information on file at GE Company, San Jose, California
Stress analysis report on file at GE Company, San Jose, California
DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
OC22A6254 Rev 1. Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
· · · · ·
Certification of Shop Inspection
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>227</u> . <u>1995</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, neither the Inspector nor his employer makes any warranty, expressed or implied.
concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
<u>9/26.1995</u> <u>Jecome P É. Nere</u> <u>NC 1231, Ohio, WC 3686 PA</u> Date <u>National Board</u> , State, Province And No.
*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".
, , , , , , , , , , , , , , , , , , , ,
Page <u>210_of_218_</u>

FORM N-2 ( back ) (tems 4-3 incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchangers. Corrosion Nominal _____T.S. Thickness ____ _ in. Allowance ____ in. Dia. ____ ft. ____ in. Length ____ ft. ____ in. 4. Shell: Material (Kind & Spec, No. ) (Min, of Range Specified) 1 ______ R.T. _____ Efficiency ______X н.т. 5. Seams: Long _ No. of Courses ____ R.T. Girth H.T. T.S. ] ____ (b) Katerial __ _____ T.S. _ 5. Heads: (a) Material Hemispherical Flat Side to Press. Knuckle Elliptical Concial Location ( Top Crown Radius Radius Apex Angle Bottom, Ends ) Thickness Radius Diameter ( conv. or conc. ) Ratio (3) (b) If removable, bolts used Other fastening (Material, Spec. No., T.S. Stze Number) (Describe or attach stretch) 7. Jacket Closure: (Describe as ogee and weld, ber, etc. If bar give dimensions, if bolts, describe or sketch) Drop Veight Charpy Impact ft-lb °F F 575 at temp of 3. Design pressure 1250 _ psi at _ Items 9 and 10 to be completed for tube sections Tube Sheets: Stationary, Material Thickness _____ in. Attacrment Dia. (Kind & Spec. No.) (Subject to preseure) (Welded, Bolled) Υ., Dia. Thickness _____ in. Attachment Floating. Material 10. Jubes: Material _____0.0. ______ in. Thickness ____ _ inches orgage. Number ____ _ Туре _ (Str. or U) items 11 - 14 inc). to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. Nominal Corrosion 11. Shell: Material ____ T.S. Thickness _____ in. Allowance _____ in. Dia. ____ ft. ____ in. Length _____ ft. ____ in. (Kind & Spec. No.) (Min. of Range Specified) 12. Seams: Long ____ H.T. R.T. _____Efficiency ___ R.T. _____ No. of Courses _____ Girth ___ H.T. (b) Material 13. Heads: (a) Material T.S. _ T.S. Knuck le Elliptical Concial Hemispherical Flat Side to Press. Crown Diameter ( conv. or conc. ) Apex Angle Location Thickness Radius Radius Radius Ratio (a) Top, bottom, ends ____ (b) Channel Other fastening ____ If removable, bolts used (a) <u>(P)</u> (c)(Describe or attach statch) Drop Weight Charpy Impact ft-lb 0 14. Oesign pressure F at temp of F psi at Items below to be completed for all vessels where applicable. 15. Safety Valve Outlets: Number Size Location 16. Nozzles: Purpose (Inter, Pentorcemer Outlet, Onsin ) Number Dis. or Size Type Thickness Material How Attached 17. Inspection Manholes, No. Size Location Openings: Handholes, No. Size Location Threaded, No. Size Location 18. Supports: Skirt (Yes or No) Other _ Legs _ Attached Luas . (Number) (Number) (Describe) (Where & How) 1 - If Postweid Heat-Treated. 2 - Ust other internal or external pressure with coincident temperature when applicable, a strong of the fight is

Page 211 of 218

FORM NIS-2 ATTACHMENT SHEET 75 OF 79 WO# 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

Manufactured & Certified by : <u>General Ele</u>	<u>ectric Company Nuclear Energy (GE-NE)</u>
<u>2117 Castl</u>	e Hayne Road, Wilmington, North Carolina 28401
	ame and Address of NPT Certificate Bolder )
(b) Manufactured for : TVA D	DECATUR, AL 35609-2000 ress of N Certificate Holder for completed nuclear component )
	- n
(a) Constructed According to Drawing Note	768E534G008 Rev 9 Dwg. Prepared by D. L. Peterson
(b) Description of Part Inspected:	ntrol Rod Drive , Model # 7RDB144FG005
(c) Applicable ASME Code: Section [1],	Edition <u>1974</u> . Addenda Date <u>W75</u> , Case No: <u>N207 1361-2</u> Class <u>1</u>
n.	
	ervice for which component was designed )
	,
	• Sheet 2 of 2
·····	· •
1. Cap 166B9274P001	
SA182 - F316 3/8" mick x 1 1/16" OD	· · · · · ·
0,0 0,00 x 1 1,10 00	
2. Indicator Tube 166B9313P001	
0.113° wall thickness	
1.065° max. dia.	•
3 Plus 15941176P001	Reactor Vessel
SA182 - F304	Thimble Code No
1/4° thick x 0.812° OD	PS07P10
4 5/2000 01006100001 ( 7105474 )	
SA182 - F304	
3.37* thick x 9 5/8* OD	
5 Para 127052110001	
SA182 - F304	
7/8" thick x 2.875" dia.	
	Code Neld
	P50YP102
SA182 - F304	
1° trick x 5.0° OD x 1.75° ID	8
7. Can Some 117C4516P000	5
SA193 - B6	
6 ea. 1/2° dia. on 4 1/8° bolt circle	4 — ///////////////////////////////////
0 Due 175470610004	
8. Plug 175A7961P001 SA182 - F304	
0.38" thick x 1.307" dia.	, Code Neld
	PSOYP102 6 7 Rolled before weld 8 8
9. Nut 137C5934P001	9
	> ( i ) <del>•</del>
9. Nat 137039347007 XM • 19 SA479 1.30° thick x 2.62° dia.	
	2117 Casth (N (N (N (N (N (N (N (N (N (N



.

. .

,

. . . .

FORM NIS-2 ATTACHMENT
SHEET 76 OF 79
WO# 95-022229-001
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I
1. Hanufactured & Certified by : <u>General Electric Company Nuclear Energy (GE-NE)</u>
<u>2117 Castle Havne Road, Wilmington, North Carolina 28401</u> ( Name and Address of NPT Certificate Bolder )
(b) Manufactured for : TVA DECATUR, AL 35609-2000 (Name and Address of N Certificate Bolder for completed nuclear component )
2. Identification - Certificate Holder's S/N of Part : <u>A3570</u> Nat'l Bd. No. <u>N/A</u>
(a) Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.Peterson</u>
(b) Description of Part Inspected: <u>Control Rod Drive , Model # 7RDB144FG005</u>
(c) Applicable ASME Code: Section III . Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> (Brief description of service for which component was designed)
. Sheet 1 of 2
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>09/26/95</u> Signed <u>GE-NE</u> ( NPT Certificate Holder ( SC QA Representive ) Certificate of Authorization Expires: <u>6/16/96</u> Certification of Authorization No. : <u>NPT N - 1151</u>
Certification of Design for Appurtenance
· Design information on file at GE Company, San Jose, California
Stress analysis report on file at <u>GE Company, San Jose, California</u>
OC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>18345</u>
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
Certification of Shop Inspection
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors 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>112</u> . <u>175</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. <u>174</u> <u>175</u> <u></u>
*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS". (*7/**)

Page 213 of 218

FORM N-2 ( back )

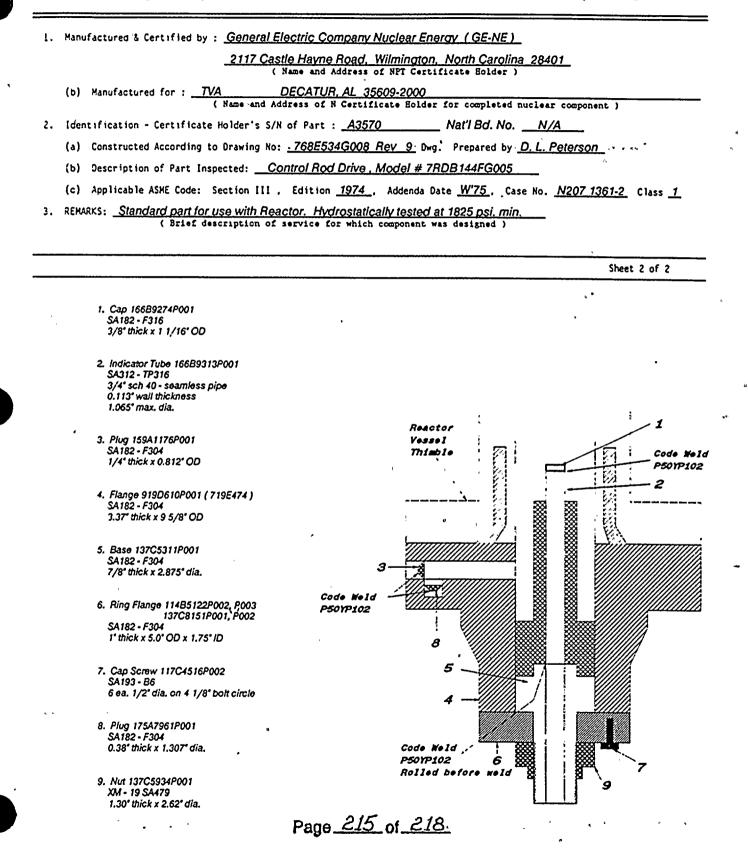
S	hell:	Mater	ial(Kind & Spec.]	T.S No.) (Min. of Par	ige Specified )	in. All		n. Dia fi			
. :	ieams;	Long					R.T		Effici	ency	X
					н.т		R.T		No. of	Courses _	
: 1	ieads:							iterial	T	.s	
1	ocatio	n (To		- Crown		Elliptical		Hemispherical	Flat		Press.
(a) .											
(b)	if remo	vable,	boits use	d		*	Other faster	ning	Describe or attach	sketch i	
7.	Jacket	Closur	·e:	( Maler		OLD HOUSE					
				. (1	Describe as oges a	nd weid, bar, etc. if b	er give dimensions, i	t bolts, describe or she Drop	Vainht		<b></b>
								Charp	y Impact		ft-1b
8.	Oesign	pressu	2 ure	1250	ps	i at	\$75	_ F at te	mp of		F
[tem	s 9 and	10 to	be comple	ted for tub	e sections						
э.	Tube St	neets:	Stationar	y. Hateria	1	Dia	•	Thickness Thickness	in. /	ttachment	
- (			Floating	- Kateria	(Kind & Sc	Nec. No.) Dia	(Subject to preseu	Thickness	in. /	Attachment	(Weided, Boded
• -								inches or gage.			
0	lubes:	Mate	rial			IA. INIC	Kiless	_ Evanser Selec			(Str. or U)
Itor	e 11 -	14 in	cl. to be o	completed fo	r inner char	bers of Jacke	ted vessels, (	or channels of	heat exchang	gers.	
1.00		1 × 00				•••••					
					Newlay]	<u> </u>	racion				
1.	Shell:	Mate	rial	T.S	Nominal Thickness	Co in. Al	rrosion lowance	in. Dia f	t in.	Length	_ ft i
			(Kind & Spec	. No. ) (Min, of Ri	Thickness inge Specified ) 1	; in. Al	lowance				
			(Kind & Spec	. No. ) (Min, of Ri	Thickness inge Specified) H.T	in. Al	lowance R.T.		Effic	iency	x
2.	Seams:	Long Girt	(Kind & Spec		Thickness inge Specified) H.T. H.T.	s (n. A)	R.T.		Effic	tency f Courses _	×
2.	Seams:	Long Girt	(Kind & Spec		Thickness inge Specified) H.T. H.T.	s (n. A)	R.T.		Effic	tency f Courses _	×
2. 3. (a)	Seams: Heads: Loc Top.bo	Long Girt (a) ation	(Knd & Spec h Material Thick ends	. No.) (Min. of Ri Crown ness Radiu	Thickness urge Specified) H.T. H.T. H.T. M.T.	5 in. Al	R.T. R.T. R.T. (b) K Concial Apex Angle	aterial Hemispherica Radius	Effic No. of Flat Diameter	f Courses _ f Courses _ T.S Side to ( conv.	X
12. 13. (a)	Seams: Heads: Loc Top.bo	Long Girt (a) ation	(Knd & Spec h Material Thick ends	. No.) (Min. of Ri Crown ness Radiu	Thickness urge Specified) H.T. H.T. H.T. M.T.	5 in. Al	R.T. R.T. R.T. (b) K Concial Apex Angle	aterial	Effic No. of Flat Diameter	f Courses f Courses T.S Side to ( conv.	Press. or conc. )
12. 13. (a)	Seams: Heads: Loc Top.bo	Long Girt (a) ation	(Knd & Spec h Material Thick ends	. No.) (Min. of Ri Crown ness Radiu	Thickness urge Specified) H.T. H.T. H.T. M.T.	5 in. Al	R.T. R.T. R.T. (b) K Concial Apex Angle	aterial Hemispherica Radius  r fastening Drop	Effic No. of Flat Diameter Veight	f Courses f Courses T.S Side to ( conv.  conte or attach st	X Press. or conc. )
2. 3. (a)	Seams: Heads: Loc Top.bo	Long Girt (a) ation	(Kind & Spece h Material Material Material Material	. No.) (Min. of Ri Crown ness Radiu	Thickness urge Specified) H.T. H.T. H.T. M.T.	5 in. Al	R.T. R.T. R.T. (b) K Concial Apex Angle	aterial Hemispherica Radius  r fastening Drop	Effic No. of Flat Diameter 	f Courses f Courses T.S Side to ( conv.  conte or attach st	X Press. or conc. )
2. 3. (a) (b)	Seams: Heads: Loc Top,bo Channe If rem	Long Girt (a) ation ttom,e l ovable	(Kind & Spece h Material Material inds e, bolts us	Crown ness Radin ed (a)	Thickness urge Specified) H.T H.T n Knuckle us Radius (b)	5 in. Al	R.T. R.T. R.T. (b) M Concial Apex Angle Othe	aterial Hemispherica Radius  r fastening Drop	Effic No. of Flat Diameter Veight Veight	f Courses f Courses T.S Side to ( conv.  conte or attach st	X Press. or conc. )
(a) (b)	Seams: Heads: Loc Top.bo Channe If rem Design	Long Girt (a) ation ttom.e l iovable	(Kind & Spece h Material Material inds e, bolts us sure	. No.) (Min. of Ri Crown ness Radin ed (a)	Thickness urge Specified) H.T H.T n Knuckle us Radius (b)	<pre>s in. Al T.S Elliptical Ratio(c) psi at</pre>	R.T. R.T. R.T. (b) M Concial Apex Angle Othe	aterial Hemispherica Radius r fastening Drop Charg o	Effic No. of Flat Diameter Veight Veight	f Courses f Courses T.S Side to ( conv.  conte or attach st	X Press. or conc. )
12. 13. (a) (b) 14. Ite	Seams: Heads: Loc Top.bo Channe If rem Design	Long Girt (a) ation ttom.e l ovable	(Kind & Spece h Material inds e, bolts us sure sure	Crown ness Radiu ed (a)	Thickness urge Specified) H.T H.T n Knuckle us Radius (b) essels where	T.S T.S Elliptical Ratio (c) psi at applicable.	llowance R.T. R.T. (b) M Concial Apex Angle Othe	aterial Hemispherical Radius r fastening Drop Charg °F at to	Effic No. of Flat Diameter Veight  Weight  mp of	f Courses f Courses T.S Side to ( conv.	X Press. or conc. )
12. 13. (a) (b) 14. Iter 15.	Seams: Heads: Loc Top.bo Channe If rem Design ns belo Safety	Long Girt (a) ation ttom,e l ovable a press w to b	(Kind & Spece h Material inds is, bolts us sure be complete e Outlets:	Crown ness Radiu ed (a)	Thickness urge Specified) H.T H.T n Knuckle us Radius (b) essels where	T.S T.S Elliptical Ratio (c) psi at applicable.	llowance R.T. R.T. (b) M Concial Apex Angle Othe	aterial Hemispherica Radius r fastening Drop Charg o	Effic No. of Flat Diameter Veight  Weight  mp of	f Courses f Courses Side to ( conv Cobe or attach su	X Press. or conc. )  much) ft-lb
12. 13. (a) (b) 14. Iter 15.	Seams: Heads: Loc Top.bo Channe If rem Design ns belo Safety	Long Girt (a) ation ttom.e l ovable press w to b y Valve es: Pun	(Kind & Spece h Material inds e, bolts us sure sure	Crown ness Radiu ed (a)	Thickness urge Specified) H.T H.T n Knuckle us Radius (b) essels where	T.S T.S Elliptical Ratio (c) psi at applicable. Size	llowance R.T. R.T. (b) M Concial Apex Angle Othe	aterial Hemispherical Radius r fastening Drop Charj °F at to Locat	Effic No. of Flat Diameter Weight wrp of	f Courses f Courses Side to ( conv conce or attach all conce or attach all conce or attach all	X Press. or conc. )  much) ft-lb
12. 13. (a) (b) 14. Ite	Seams: Heads: Loc Top.bo Channe If rem Design ns belo Safety	Long Girt (a) ation ttom.e l ovable press w to b y Valve es: Pun	(Kind & Spece h Material inds is, bolts us sure pe complete e Outlets: powe (liver,	Crown ness Radiu ed (a) d for all v Number	Thickness urge Specfied) H.T H.T n Knuckle us Radius (b) essels where	T.S T.S Elliptical Ratio (c) psi at applicable. Size	llowance R.T. R.T. (b) M Concial Apex Angle Othe	aterial Hemispherical Radius r fastening Drop Charj °F at to Locat	Effic No. of Flat Diameter Veight oy Impact emp of tion Permon	f Courses f Courses Side to ( conv conce or attach all conce or attach all conce or attach all	X Press. or conc. ) which)ft-lbF
12. 13. (a) (b) 14. <u>Ite</u> 15. 16.	Seams: Heads: Loc Top.bo Channe If rem Design ms belo Safety Nozzle	Long Girt (a) ation ttom,e l ovable w to b v Valve cus: Pun Cus	(Kind & Spec h h Material Thick ands thick ands thick ands thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick t	d for all v Number	Thickness urge Specified) H.T H.T n Knuck le us Radius (b) essels where  Dua, or Siz	T.S T.S Elliptical Ratio (c) applicable. Size	llowance R.T R.T (b) M Concial Apex Angle  Othe	aterial Hemispherical Radius r fastening Drop Charg F at to Local Thickness	Effic No. of  l Flat Diameter  Weight  wrp of Eno f  Rennom Materna	tency f Courses _ T.S Side to ( conv.  conse or attach size conserverting comment	X Press. or conc. ) exch)ft-lbF
12. 13. (a) (b) 14. <u>Ite</u> 15. 16.	Seams: Heads: Loc Top.bo Channe If rem Design ms belo Safety Nozzle	Long Girt (a) ation ttom,e l ovable w to b v Valve cus: Pun Cus	(Kind & Spec h h Material Thick ands thick ands thick ands thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick t	d for all v Number	Thickness urge Specified) H.T H.T n Knuck le us Radius (b) essels where  Dua, or Siz	T.S T.S Elliptical Ratio (c) applicable. Size	llowance R.T R.T (b) M Concial Apex Angle  Othe	aterial Hemispherical Radius r fastening Drop Charg F at to Local Thickness	Effic No. of  l Flat Diameter  Weight  wrp of Eno f  Rennom Materna	tency f Courses _ T.S Side to ( conv.  conse or attach size conserverting comment	X Press. or conc. ) exch)ft-lbF
12. 13. (a) (b) 14. <u>Ite</u> 15. 16.	Seams: Heads: Loc Top.bo Channe If rem Design Nozzle Inspec Open fr	Long Girt (a) ation ttom,e lovable ovable spress w to b v Valve cus: Purp Cus cus cus cus cus cus cus cus cus cus c	(Kind & Spec h h Material Thick ands thick ands thick ands thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick thick t	No.) (Min. of Ri Crown ness Radin ed (a) d for all v Number Number Number Number Number Number	Thickness urge Specified) H.T H.T n Knuck le us Radius (b) essels where  Dia, or Siz	T.S T.S Elliptical Ratio  (c) psi at applicable. Size Size Size Size	llowance R.T R.T (b) M Concial Apex Angle Othe	aterial Hemispherical Radius r fastening Drop Charj °F at to Locat	Effic No. of  l Flat Diameter  (Des Veight  y Impact emp of tion Reenfor Materia	tency f Courses _ T.S Side to ( conv.  conse or attach side consent d	X Press. or conc. ) exch)ft-lbF

Page 214 of 218

,

FORM NIS-2 ATTACHMENTT SHEET 11 OF 19

WD # 95-02229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I



•

۶. ۲. ۲.

٠

•

----

, 

_	FORM NIS-2 ATTACHME SHEET 78 OF 79 SO22.2018 WO# 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES As required by the Provision of the ASHE Code Rules, Section III, Div. I
ſ	Manufactured & Certified by : <u>General Electric Company Nuclear Fuel &amp; Components Manufacturing (GENF &amp; CN</u> 
J	(b) Manufactured for : <u>TVA Chattanooca, Tennessee 37402-2127</u> ( Name and Address of # Certificate Holder for completed nuclear component )
z.	_Identification - Certificate Holder's S/N of Part :
	(a) Constructed According to Drawing No: _788E534G008_Rev_9_Dug. Prepared by D.L. Peterson_
	(b) Description of Part Inspected: <u>Control Rod Drive. Model # 7RDB144FG005</u>
	(c) Applicable ASME Code: Section III , Edition <u>1974</u> , Addende Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3.	REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.</u> ( Brief description of service for which component was designed )
	Sheet 1 of 2
•	We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. ( The applicable Designed Specification and Stress Report are not the responsibility of the MPT Certificate Holder for parts. An MPT Certification Holder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report ). Date: <u>11/19/D2</u>
<b></b>	Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : <u>NPTN-1151</u>
	Certification of Design for Appurtenance
	Design information on file atGE Company, San Jose, California
	Stress analysis report on file atGE Company, San Jose, California
	DC22A6253 Rev. 1 Design specification certified by <u>Blorn Haaberg</u> Prof. Eng. State <u>Call.</u> Reg. No. <u>15570</u>
.[	DC22A8254 Rev 1 Stress analysis report certified by <u>Echward Yoshko</u> Prof. Eng. State <u>Call.</u> Reg. No. <u>M018848</u>
_]. 	DC22A8254 Rev 1 Stress analysis report certified by <u>Edward Yoshko</u> Prof. Eng. State <u>Call</u> . Reg. No. <u>M018848</u> Certification of Shop Inspection
•	Stress analysis report certified by <u>Edward Yoshko</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018848</u>
•	Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Call</u> . Reg. No. <u>M018846</u> <b>Certification of Shop Inspection</b> I. the undersigned, ~ Iding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Orth Carolina</u> and employed by <u>Depertment of Labor</u> of <u>State of North Carolina</u> have Inspected the part o. pressure vessal described in this Partial Data Report on <u>CORT</u> , <u>7972</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or
•	Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Call</u> . Reg. No. <u>M018846</u> <b>Certification of Shop Inspection</b> I. the undersigned, ~ Iding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of <u>Orth Carolina</u> and employed by <u>Depertment of Labor</u> of <u>State of North Carolina</u> have Inspected the part o. pressure vessal described in this Partial Data Report on <u>CORT</u> , <u>7972</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property demages or a loss of any kind arising from or connected with this inspection.

•

· · ·			803	22.20	119			\$
					( back )			
tens 4-8 Incl. to	be completed	for single				shells of heat e	xchangers.	
. Shell: Materi	al T.S	T	ominal hickness	in. A1	rrosion lowance i	n. Dia ft.	1n. L	ength ft
	(10nd & Bpee, He.) (1						5441010	ncy
o. seams: Long _ Girth		<u></u> п. м.	'',				No.of	Courses
								s
Location ( Tor Bottom, Ends )		Crówn	Knuck le	Elliptical	Concial	Hemispherical	Flat ***	4
(a) (b)	bolts used		<del>منتخبيبه</del> حسب		Other faster	100		
		I bland a dall the		Stee bb - beab		ning(D	secribe er atlach s	whetch )
7. Jacket Closure		(Desor	the as egee ar	nd wold, bar, etc. If	ber give dimensions, i	t bolls, describe or shelch Drop Ve	) 19ht	
						Charpy	Impact	ft-1
B. Design pressu	-	-		1 at	575	F at temp	of	۶
Items 9 and 10 to						Thickness	10 11	tachment
. Tube Sheets:	Stationary. I	Material	(Kind & 9p		. (B.Ajed to press		11. At	tachment(Woldes, Sc tachment
. IUDES: MATER								
•	1. to be compli 1a1 T.:	eted for 1r 5 1	nner cham Kominal Thickness	bers of jack	sted vessels, (		at exchange	{ Sv. er 1
1. Shell: Nater	1. to be compli (a)T. (Novia Spec. No.) (	eted for in 5 Max. of Parge 8	nner cham Kominal Thickness Novelles)	bers of jacke in. A	ated vessels, ( prrosion llowance	or channels of h in. Dia ft.	sat exchange in. l	(Sr. er) 175.
1. Shell: Nater 2. Seams: Long	1. to be completed at 1. (1014 a Spec. He.) (	sted for in 51 Max. of Parge B	nner cham Kominal Thickness Neufloc) 1 .T.	bers of jacks	ated vessels, operation llowance R.T.	or channels of h	eat exchange in. L Efficie	(æ.er)
1. Shell: Mater 2. Seams: Long Girth	1. to be compli (a) T.: (Knd & Spon. He.) (	eted for 1r 5 1 Man. et Pange 8 H.	nner cham Kominal Thickness Received) 1 .T	bers of jacko in. A	eted vessels, operation llowance R.T.	or channels of h in. Dia ft.	eat exchange in. L Efficie No. of	(Br.er)
12. Seams: Long Girth 13. Heads: (a) M Location (a) Top.bottom.en	1. to be complete 1a1T. (Nove a Spec. He.) ( ateria1 Thickness	ated for 1r 5 Man. et Pange 8 H. H. H.	Rominal Thickness Recented) 1.T .T	bers of jacks in. A' T.S	sted vessels, operation           Illowance	or channels of hi in. Dia ft. 	eat exchange in. l Efficie 	(Br.er)
1. Shell: Mater 2. Seams: Long Girth 3. Heads: (a) M Location (a) Top.bottom.en (b) Channel	1. to be complete 1a1T. (Nove a Spec. He.) ( ateria1 Thickness	sted for in s Man. et Parge B H. H. Crown Radius 	Kominal Kominal Thickness NewsRed) 1 .T. .T. Knuckle Radius	bers of jacks in. A  T.S Elliptical	eted vessels, operation llowance R.T. R.T. (b) M Concial Apex Angle	or channels of h in. Dia ft. 	eat exchange in. U 	(Br.en) ars. Lengthft ancy Courses S Side to Press. ( conv. or conc.
1. Shell: Mater 2. Seams: Long Girth 3. Heads: (a) M Location (a) Top.bottom.en (b) Channel	1. to be compli 1a1T. (Nove a Spece Mac) ( ateria1 Thickness ds	sted for in s Man. et Parge B H. H. Crown Radius 	Kominal Kominal Thickness NewsRed) 1 .T. .T. Knuckle Radius	bers of jacks in. A T.S Elliptical Ratio	eted vessels, operation llowance R.T. R.T. (b) M Concial Apex Angle	or channels of h in. Dia ft. aterial Hemispherical Radius r fastening Drop W	eight <u>(Deco</u>	(Br.er)  ars.  .ength ft  ancy CoursesS Side to Press. ( conv. or conc The or atlach Wetch)
1. Shell: Mater 2. Seams: Long Girth 3. Heads: (a) M Location (a) Top.bottom.en (b) Channel If removable,	1. to be complete 1a1T. (Novia Spec. He.)( ateria1 ds bolts used (a	ated for in s Max. of Parge 0 H. H. Crown Radius 	Anner chami Kominal Thickness Newfled) 1.T. .T. .T. Knuckle Radius	bers of jacks in. A T.S Elliptical Ratio 	ated vessels, operation llowance R.T. R.T. (b) M Concial Apex Angle Othe	or channels of h in. Dia ft. aterial Hemispherical Radius r fastening Drop W	eat exchange in. 1 Efficie No. of The Flat Diameter (Deco Impact	(Br. er)
<ol> <li>Shell: Mater</li> <li>Seams: Long Girth</li> <li>Heads: (a) M</li> <li>Location</li> <li>Top,bottom,en</li> <li>(b) Channel If removable,</li> <li>4. Design pressu</li> </ol>	1. to be complete 1a1T.: (10vd & Spec. He.) ( ateria1 ds bolts used (a 	ated for in S H. Men. of Parge B H. Crown Radius 	Anner chami Kominal Thickness Apostical T T Knuckle Radius  (b)	bers of jacks in. A T.S Elliptical Ratio  (C) psi at	eted vessels, operation ilowance R.T. R.T. (b) M Concial Apex Angle Othe	or channels of h in. Dia ft. aterial Hemispherical Radius r fastening Drop W	eat exchange in. 1 Efficie No. of The Flat Diameter (Deco Impact	(Br.er)  ars.  .ength ft  ancy CoursesS Side to Press. ( conv. or conc The or atlach Wetch)
<ol> <li>Shell: Mater</li> <li>Seams: Long Girth</li> <li>Heads: (a) M Location (a) Top.bottom.en (b) Channel If removable,</li> <li>Oesign pressu</li> <li>Design pressu</li> </ol>	1. to be complete 'or	ated for in s Man. et Pange B H. Crown Radius     	Kominal Kominal Thickness Normal 1 .T. .T. .T. Knuckle Radius 	bers of jacks in. A' T.S Elliptical Ratio   cc) psi at applicable.	ated vessels, operation llowance R.T. R.T. (b) M Concial Apex Angle Othe	or channels of h in. Dia ft. aterial Hemispherical Radius  fastening Drop W Charpy F at tem	eat exchange in. 1 Efficie No. of T. Flat Diameter ight Impact p of	(Br. er)
<ol> <li>Shell: Mater</li> <li>Seams: Long Girth</li> <li>Heads: (a) M</li> <li>Location (a) Top,bottom,en (b) Channel If removable,</li> <li>Oesign pressu</li> <li>Design pressu</li> <li>Safety Valve</li> </ol>	1. to be completed at the second at the seco	ated for in s Man. et Pange B H. Crown Radius     	Kominal Kominal Thickness Normal 1 .T. .T. .T. Knuckle Radius 	bers of jacks in. A' T.S Elliptical Ratio   cc) psi at applicable.	ated vessels, operation llowance R.T. R.T. (b) M Concial Apex Angle Othe	or channels of h in. Dia ft. aterial Hemispherical Radius r fastening Drop W	eat exchange in. 1 Efficie No. of T. Flat Diameter ight Impact p of	(Br. eri ars. Lengthft sncy Courses Courses S: Side to Press. ( conv. or conc.  rbe or atlach shotch) ft-1  F
<ol> <li>Shell: Mater</li> <li>Seams: Long Girth</li> <li>Heads: (a) M</li> <li>Location (a) Top,bottom,en (b) Channel If removable,</li> <li>Oesign pressu</li> <li>Design pressu</li> <li>Safety Valve</li> <li>Nozzles: Purpe</li> </ol>	1. to be complete 1a1T.: (Novid Spee He.)( aterial aterial Thickness ds bolts used (a pre complete 'or Outlets: Humb me (Her,	ated for in s Man. et Pange B H. Crown Radius     	Kominal Kominal Thickness Normal 1 .T. .T. .T. Knuckle Radius 	bers of jacks in. A  T.S Elliptical Ratio   psi at applicable.  Size	ated vessels, operation percession 10wance R.T. R.T. (b) M Concial Apex Angle Othe	or channels of he in. Dia ft. aterial Hemispherical Radius r fastening Drop W Charpy F at tem	eat exchange in. 1 Efficie No. of T. Flat Diameter eight impact p of on	(Br. eri ars. Length ft sncy Courses Courses S: Side to Press. ( conv. or conc.  rbe or atlach shotch) ft-1 F
<ol> <li>Shell: Mater</li> <li>Seams: Long Girth</li> <li>Heads: (a) M</li> <li>Location (a) Top,bottom,en (b) Channel If removable,</li> <li>Oesign pressu</li> <li>Design pressu</li> <li>Safety Valve</li> <li>Nozzles: Purpe</li> </ol>	1. to be complete 1a1T.: (Novid Spee He.)( aterial aterial Thickness ds bolts used (a pre complete 'or Outlets: Humb me (Hwg.	ated for ir si Max. of Parge 0 H. Crown Radius i i All vesse ver	Amer chami Kominal Thickness Aposted) 1.T. .T. .T. Knuckle Radius 	bers of jacks in. A in. A T.S T.S Elliptical Ratio  (c) psi at applicable. Size	ated vessels, operation percession 10wance R.T. R.T. (b) M Concial Apex Angle Othe	or channels of he in. Dia ft. aterial Hemispherical Radius r fastening Drop W Charpy F at tem	eat exchange in. l Efficie No. of To Flat Diameter  eight impact p of on Redrove	(Br.eri ars. .engthft ency Courses S Side to Press. ( conv. or conc.  rbe or atlach shetch) ft-1 F
<ol> <li>Shell: Mater</li> <li>Seams: Long Girth</li> <li>Heads: (a) M</li> <li>Location (a) Top.bottom.en (b) Channel If removable,</li> <li>Obsign pressu</li> <li>Design pressu</li> <li>Safety Valve</li> <li>Mozzles: Poper Communication</li> </ol>	1. to be complet 1a1	ated for 1r 51 Max. of Parge 0 H. Crown Radius     	Anner chami Kominal Thickness Newfled) .T. .T. .T. Knuckle Radius 	bers of jacks in. A in. A T.S T.S T.S Elliptical Ratio (c) psi at size Size	ated vessels, or prosion llowance R.T R.T R.T (b) M Concial Apex Angle Othe theOthe	or channels of h	eat exchange in. 1 Efficie No. of T. Flat Diameter ight impact on Pof Nettore Material	(Br.eri ars. .engthft ency Courses S Side to Press. ( conv. or conc.  rbe or atlach shetch) ft-1 F
1. Shell: Mater 2. Seams: Long Girth 3. Heads: (a) M Location (a) Top.bottom.en (b) Channel If removable. 14. Design pressu Items below to be 15. Safety Valve 16. Nozzles: Purper Comment 17. Inspection 1 Openings: 1	1. to be complet 1a1	ated for 1r 51 Max. of Parge 0 H. Crown Radius     	Anner chami Kominal Thickness Newfled) .T. .T. .T. Knuckle Radius 	bers of jacks in. A in. A T.S T.S T.S Elliptical Ratio (c) psi at size Size	ated vessels, or prosion llowance R.T R.T R.T (b) M Concial Apex Angle Othe theOthe	or channels of h in. Dia ft. aterial Hemispherical Radius r fastening Drop W Charpy F at tem Locati I Location	eat exchange in line line line line line line line li	(Br.eri ars. .engthft ency Courses S Side to Press. ( conv. or conc.  rbe or atlach shetch) ft-1 F
1. Shell: Mater 2. Seams: Long Girth 3. Heads: (a) M Location (a) Top.bottom.en (b) Channel If removable, 14. Design pressu Items below to be 15. Safety Valve 16. Nozzles: Pupe Comment Denings: 1	1. to be complet 1a1	eted for in s Max. of Parge 0 H. H. Crown Radius            	Amer cham Kominal Thickness Amerikal) 1.T. .T. Knuckle Radius (b) .1s where Dia. er Ste	bers of jacks Carlor Carlor C	ated vessels, operation percetion llowance R.T. R.T. (b) M Conctal Apex Angle Othe  Manda	or channels of h in. Dia ft. aterial Hemispherical Radius r fastening Drop W Charpy F at tem Locati I Thickness  Location Location	eat exchange in. 1 Efficie No. of T. Flat Diameter (Deece Ight Impact p of Nothered Metered	(Br.er)  arsengthft ency Courses Courses S Side to Press. ( conv. or conc The or atlach which)ft-1F
1. Shell: Mater 2. Seams: Long Girth 3. Heads: (a) M Location (a) Top.bottom.en (b) Channel If removable, 14. Design pressu Items below to be 15. Safety Valve 16. Nozzles: Pupe Comment 17. Inspection 2 Openings: 1	1. to be complet 1a1	eted for in s Max. of Parge 0 H. H. Crown Radius            	Amer cham Kominal Thickness Amerikal) 1.T. .T. Knuckle Radius (b) .1s where Dia. er Ste	bers of jacks Carlor Carlor C	ated vessels, operation percession llowance R.T. R.T. (b) M Concial Apex Angle Othe  Manda	or channels of h in. Dia ft. aterial Hemispherical Radius r fastening Drop W Charpy F at tem Locati I Location	eat exchange in. 1 Efficie No. of T. Flat Diameter (Deece Ight Impact p of Nothered Metered	(Br.er)  arsengthft ency Courses Courses S Side to Press. ( conv. or conc The or atlach which)ft-1F
1. Shell: Mater 2. Seams: Long Girth 3. Heads: (a) M (a) Top,bottom.en (b) Channel If removable, 14. Design pressu 14. Design pressu 15. Safety Valve 16. Mozzles: Pope Common 17. Inspection M Openings: M 18. Supports: S	1. to be complet 1a1	ated for 1r 9H. 1.4m. et Parge 8 H. Crown Radius H. Crown Radius 	Amer cham Kominal Thickness Hexelled) 1 .T. 4 .T. 5 4 .T. 5 4 .T. 5 4 .T. 5 5 .T. 5 5 .T. 5 5 .T. 5 5 .T. 5 5 .T. 5 5 .T. 5 5 .T. 5 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T. 5 .T.	bers of jacks Cr In. A T.S T.S Elliptical Ratio  (C) psi at applicable. Size Size Size Size Legs	ated vessels, operation percession llowance R.T. R.T. (b) M Concial Apex Angle Othe  Manda	or channels of h in. Dia ft. aterial Hemispherical Radius r fastening Drop W Charpy F at tem Locati I Thickness  Location Location	eat exchange in. 1 Efficie No. of T. Flat Diameter (Deece Ight Impact p of Nothered Metered	(Br.er)  arsengthft ency Courses Courses S Side to Press. ( conv. or conc The or atlach which)ft-1F

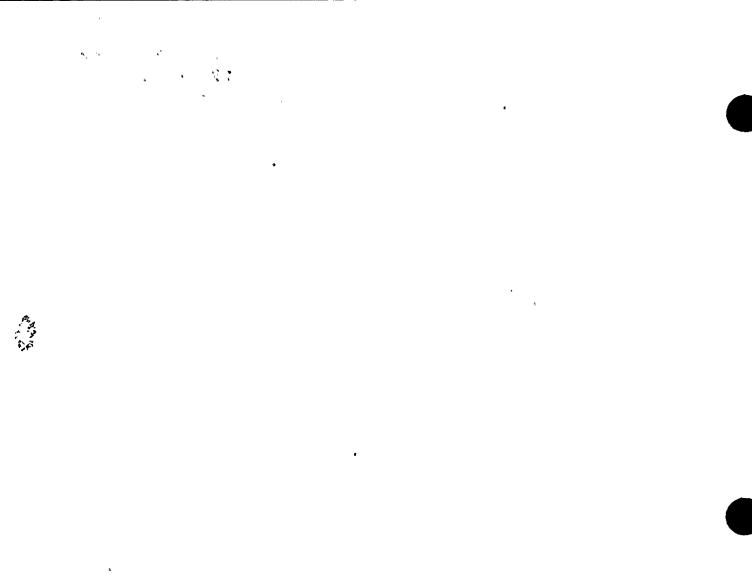
.

SHEET 7.9 OF 79 WD # 95-022229-001 FORM N-2 NPT CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Gode Rules, Section III, Div. I 1. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM) 2117 Castle Havne Road, Wilmington, North Carolina 28401 ( Name and Address of NFT Certificate Holder ) (b) Kenufactured for : <u>TVA</u> Chattanooga, Tennessoo 37402-2127 ( Name and Address of N Certificate Holder for completed nuclear component ) 2. Identification - Certificate Holder's S/N of Part : <u>A3681</u> Nat'i Bd. No. <u>N/A</u> (a) Constructed According to Drawing No: 768E534G008 Ray 9 Dwg. Prepared by D.L. Paterson ... (b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005. (c) Applicable ASHE Code: Section III , Edition <u>1974</u>, Addenda Date <u>W75</u>, Case No. <u>N207 1361-2</u> Class <u>1</u> 3. RENARKS: <u>Standard part for use with Reactor</u>, <u>Hydrostatically tested at 1825 psi. min.</u> ( Brief description of service for which component was designed ) Sheet 2 of 2 1. Cap 166B9274P001 SA182 - F304 3/8" thick x 1 1/16" OD 2. Indicator Tube 16689313P001 SA312 - TP316 3/4" soh 40 - seamless pipe 0.113" wall thickness 1.065" mex. die. Reseter Yessel 3. Plug 159A1176P001 Code Nold SA182 - F304 Thisble 1/4" thick x 0.812" OD PEOYP102 2 4. Flange 9190610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" die. Code NoId 6. Ring Flange 11485122P002, P003 PROYPICE 137C8151P001, P002 SA182 - F304 1" thick x 5.0" O 1.75° ID 7. Cap Screw 117C4516P002 SA193 - 86 6 es. 1/2" dis. on 4 1/8" bok circle 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" dia. Code Nold POOYP102 6 Rellod before we la 9. Not 137C5934P001

FORM NIS-2 ATTACHMENT

Page 218 of 218

XM - 19 SA479 1,30° thick x 2.62° dia.



, ,

з

۰. ۲. ۲۰۰۰ ۲.

4

 U

## BROWNS FERRY NUCLEAR PLÀNT

## CORRECTIONS TO THE UNIT 2 CYCLE 6 NIS-2 REPORTS

Workplans 2307-93 and 2205-93

## SUPPLEMENTAL

<u></u>				PAIRS OR REPLA ASME Code Section		TS	/
1. Owner <u>Tenness</u>	see Valley A	uthority		Date <u>08-11-</u>	95		
1101 Market	t St., Chatt Address	anooga, TN	Sheet of3				
2. Plant_Browns I	Ferry Nuclea Name	r Plant	Unit 2				
<u>Post Office</u>	Box 2000, D Address	ecatur, AL	35609	DCN W20667A Repair Orga		<u>307–93</u> 9.0. No., Job No.,	Atc.
3. Work Performed by	Tennessee V	alley Autho Name	Type Code Symbol Authorization No.	Stamp	<u>N/A</u>		
Post_Office_	Box 2000, D	ecatur, AL	35609	Expiration Date			
4. Identification of Sys	stem074 -	Residual H	leat Remov	val			
<ol> <li>(a) Applicable Cons</li> <li>(b) Applicable Editi</li> <li>*W/ Suppleme</li> <li>Identification of Con</li> </ol>	ion of Section XI Ut ental Requir	ilized for Repairs ements.	or Replacement	19 <u>86</u>	.ddenda,_	<u>N/A</u>	_Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
See Attached							

 BFPER950875
 Image: Control of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

- 7. Description of Work <u>Hydrostatic Test</u>
- 8. Tests Conducted: Hydrostatic X Pneumatic Nominal Operating Pressure Other Pressure______Psi Test Temp.______°F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8% in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

3,

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

-

#### FORM NIS-2 (Back)

..

.

	Remarks Perform hydrostatic test on piping and valves. See continuation s Applicable Manufacturer's Data Reports to be attached
	Applicable Manufacturer's Data Reports to be attached
-	· ·
-	
_	
_	
<u> </u>	
-	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this $\underline{\texttt{Replacement}}$ conforms to the rules of
A	ASME Code, Section XI.
	<b>N</b> / 1
Т	ype Code Symbol StampN/A
	N/A
	ertificate of Authorization No. N/A Expiration Date N/A
	8-14-93 11 9
B	When or Owners or Owners of Owners of Designee, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19
470	"C-Lawrence, MODS Manager &r Designee/
	CERTIFICATE OF INSERVICE INSPECTION
1.	the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
0	r Province of <u>Tennessee</u> and employed by <u>Hartford Steam Boiler Insp. &amp; Ins. Co.</u>
	Hartford, Connecticut
in	this Owner's Report during the period February 04, 1993 to February 23, 1993, and state
	o the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
	wner's Report in accordance with the requirements of the ASME Code, Section XI.
	By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concernin
6)	xaminations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his emp
st	hall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
	spection.
	MIL. T. M
-	Inspector's Signature Commissions MB6908 TN 3135
	Inspector's Signature National Board, State, Province, and Endorsemen
	nareAug. 11 19.95
	1973

SUPPLEMENTAL

#### ENCLOSURE 3

#### TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 2

#### UPDATE TO INSERVICE INSPECTION, AND AUGMENTED EXAMINATIONS SUMMARY REPORT FOR CYCLE 6 OPERATION

(SEE ATTACHED)

The items below are an update for the Browns Ferry Nuclear Plant, Unit 2 Cycle 6 inservice inspection summary report. The changes are summarized below:

- Delete code credit for PCV1-2-004-BC, page 91 of the Unit 2 Cycle 6 NIS-1, and change to voluntary examination.
- Delete code credit for FCV-74-54-BC, page 101 of the Unit 2 Cycle 6 NIS-1, and change to voluntary examination.

.

٢

**^** 

•

#### ENCLOSURE 4

*

#### TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 2

#### CORRECTION TO REPAIR AND REPLACEMENTS SUMMARY REPORT FOR CYCLE 6 OPERATION

(SEE ATTACHED)

· · · ·

• • • •

.

e

.

1.	Owner	TENNESSEE_VALLEY_AUTHORITYNAME	<u> </u>	Shee	t_2_OF
		<u>1101 MARKET STREET, CHATTANOOGA, TN 3</u> Address	17402	UNIT	2
Į.	Plant	BROWNS FERRY NUCLEAR PLANT		DCN	<u>W20667A</u>
		NAME			
	1	POST OFFICE BOX 2000, DECATUR, AL 356 ADDRESS	09	WP#	2307-93
3.	Work Perf	prmed By <u>TENNESSEE VALLEY AUTHORIT</u>	Υ.		
		POST OFFICE BOX 2000, DECA ADDRESS	ATUR AL 35	5609	
<b>1</b> .	Identific	ation of System 074 - Residual Heat Re	moval		
- •				<u> </u>	
5.	a. App	licable Construction CodeUSAS_B31.1.	0 10	967	
		tion, <u>N/A</u> Addenda, <u>N/A</u> Code Case and <u>de</u> <u>0 R8, BFN-50-C-7107 R6</u>	sign crite:	ria_BFN	<u></u>
	b. App	licable Edition of Section XI Utilized for	r Repairs d	or Repl	acements
			<b>-</b>	<b>-</b> -	
5.	Identific	ation of Components Repaired or Replaced a	and Replace	ement	
5.					nts.
•		ation of Components Repaired or Replaced a s: See attached SSP-6 forms for identific			nts.
	Component		cation of c	compone	٣
	Component: Descriptio	3: See attached SSP-6 forms for identific	cation of c	:ompone <u>125 PS</u>	IG @ 62°
	Components Description	s: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> & piping and valves 2-74-848 & 2-74-849	cation of contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contrast of a contra	:ompone <u>125 PS</u> 2-93 fo	IG @ 62° or work
	Component; Descriptio <u>on the RHI</u> <u>performed</u>	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u>	cation of c ormed at 1 in WP 2307 performed	:ompone <u>125 PS</u> 2-93 fo at 112	TIG @ 62° or work 2 PSIG @
	Components Description on the RHI performed 69°F on the	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>R piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>he RHR piping and valves 2-74-850 &amp; 2-74</u>	cation of c ormed at 1 in WP 2307 performed -851 in WF	20mpone 125 PS 2-93 fo at 112 2307-	TIG @ 62° or work 2 PSIG @ 93 for
	Components Description on the RHI performed 69°F on the for work p	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>R piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p	20mpone 125 PS 2-93 fo at 112 2307- perform	TIG @ 62° or work 2 PSIG @ 93 for aed at
	Components Description on the RHI performed 69°F on the for work p 1130 PSIG	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>A piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u> <u>@ 57°F on the RHR piping and valves 2-7</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	TIG @ 62° or work 2 PSIG @ 93 for aed at 3 in WP
	Components Description on the RHI performed 69°F on the for work p 1130 PSIG	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>R piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	IG @ 62° or work 2 PSIG @ 93 for aed at 3 in WP
	Components Description on the RHI performed 69°F on the for work p 1130 PSIG	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>A piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u> <u>@ 57°F on the RHR piping and valves 2-7</u> <u>Che temperature change for the hydrostat</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	TIG @ 62° or work 2 PSIG @ 93 for aed at 3 in WP
	Components Description on the RHI performed 69°F on the for work p 1130 PSIG 2306-93.	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>A piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u> <u>@ 57°F on the RHR piping and valves 2-7</u> <u>Che temperature change for the hydrostat</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	IG @ 62° or work 2 PSIG @ 93 for aed at 3 in WP
	Components Description on the RHI performed 69°F on the for work p 1130 PSIG 2306-93.	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>A piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u> <u>@ 57°F on the RHR piping and valves 2-7</u> <u>Che temperature change for the hydrostat</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	IG @ 62° or work 2 PSIG @ 93 for aed at 3 in WP
	Components Description on the RHI performed 69°F on the for work p 1130 PSIG 2306-93.	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>A piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u> <u>@ 57°F on the RHR piping and valves 2-7</u> <u>Che temperature change for the hydrostat</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	IG @ 62° or work 2 PSIG @ 93 for hed at 1 NP
	Components Description on the RHI performed 69°F on the for work p 1130 PSIG 2306-93.	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>A piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u> <u>@ 57°F on the RHR piping and valves 2-7</u> <u>Che temperature change for the hydrostat</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	IG @ 62° or work 2 PSIG @ 93 for hed at 1 NP
	Components Description on the RHI performed 69°F on the for work p 1130 PSIG 2306-93.	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>A piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u> <u>@ 57°F on the RHR piping and valves 2-7</u> <u>Che temperature change for the hydrostat</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	TIG @ 62° or work 2 PSIG @ 93 for aed at 3 in WP
5. 7. ) ,	Components Description on the RHI performed 69°F on the for work p 1130 PSIG 2306-93.	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>A piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u> <u>@ 57°F on the RHR piping and valves 2-7</u> <u>Che temperature change for the hydrostat</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	TIG @ 62° or work 2 PSIG @ 93 for aed at 3 in WP
	Components Description on the RHI performed 69°F on the for work p 1130 PSIG 2306-93.	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>A piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u> <u>@ 57°F on the RHR piping and valves 2-7</u> <u>Che temperature change for the hydrostat</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	TIG @ 62° or work 2 PSIG @ 93 for aed at 3 in WP
	Components Description on the RHI performed 69°F on the for work p 1130 PSIG 2306-93.	3: See attached SSP-6 forms for identific on of Work <u>Hydrostatic test #1 was perf</u> <u>A piping and valves 2-74-848 &amp; 2-74-849</u> <u>in WP 2306-93. Hydrostatic test #2 was</u> <u>ne RHR piping and valves 2-74-850 &amp; 2-74</u> <u>performed in WP 2306-93. Hydrostatic test</u> <u>@ 57°F on the RHR piping and valves 2-7</u> <u>Che temperature change for the hydrostat</u>	ormed at 1 in WP 2307 performed -851 in WF t #3 was p 4-852 & 2-	20mpone 125 PS 2-93 fo at 112 2307- 0erform -74-853	TIG @ 62° or work 2 PSIG @ 93 for aed at 3 in WP

1

.

SUPPLEMENTAL

	FN		SME SECTION REPLAC		= .	AND		SSP-6 05/22/9 Page 2		···
1	<u> </u>				M SSP ge 1 of	-				
			CON	TINUAT	TION S	HEET	FOR	NIS-2		
1.	(OW	<u>í</u> 11	ENNESSEE VA 01 MARKET S HATTANOOGA	TREET						i
2.	(PLA	NT) BI P.	ROWNS FERR O. BOX 2000	Y NUCL	.EAR F	LANT	-	SHEE	T ^{a3} 0	of
		DI	Ecatur, alae	BAMA				NT(S)	<u>, 2</u> WP 2307-93 DCN W20667A	
З.	WOF	RK PERFO					DESYN	NBOL S		N/A
I	Post	Office Bo ADD	(CO) <u>x 2000</u> RESS		THORE					N/A
4. [.]		· CITY A	609 ND STATE ·				•	• •	] 	N/A
	1		N SYSTEM						10.67	
	EDIT	ION, <u>W/Sup</u>	plemental Req DITION OF SE	<u>uiremen</u>	ADDEN	NDA, (	CODE	CASE(	S)1	N/A
6.	REPI IDEN	LACEMEN' ITIFICATIC		NENTS						
Name Comp		Name of Manufacture	Manufacturer Serial No. r	National Board N		Other Identifi	cation	Year Built	Repaired, Replaced, or Replacement	ASME Code Stam (Yes o No)
Test	stati	TVA	N/A	N/A		TEST	#1	1993	Replacement	
Test	stati	TVA	N/A	N/A		TEST	#2	1993	Replacemen	NO
10 ***	scat1	C TVA	N/A	N/A		TEST	#3	1993	Replacemen	NO
Hydro Test			N TOTAL NUM	SER OF	CON	TINUA	TION	SHEET		-

۰.

5

# 

r. '. r

۰. ۲ ۲

۰ ۰ ۰ ۰ ۰ ۰

* - ,

۰. ۲

______ _ 10

### SUPPLEMENTAL

#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner Tennessee Valley Authority	C
1101 Market Strettme	
Chattanooga, TN 37402	S
Address	
2. Plant Browns Ferry Nuclear Plant	ι
Name	
Post Office Box 2000, Decatur, AL 35609	-
Address	
3. Work Performed by <u>Tennessee Valley Authority</u>	٦
Name	Æ
Post Office Box 2000, Decatur, AL 35609	E
Address	

Date February 15,	1993
Sheet1 of2	
Jnit <u>2</u>	
WP2205-93	
Repair Organization P	.O. No., Job No., etc.
Type Code Symbol Stamp	<u>N/A</u>
Authorization No.	N/A
Expiration Date	N/A

- 4. Identification of System 012 Auxiliary Boiler System
- 5. (a) Applicable Construction Code <u>USAS_B31.1.019_67</u> Edition, <u>N/A</u> Addenda, <u>N/A</u>
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>86</u>
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No,	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
See Page 2			•				
BFPER950882	L. L. L. L. L. L. L. L. L. L. L. L. L. L		10 J 20		• •		

- 7. Description of Work Cut pipe, remove valves and cap lines.

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

(12/82)

ڊ ^و

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

-Page 4.1 of 18 019. 14.95

## SUPPLEMENTAL

#### FORM NIS-2 (Back)

9. Remarks <u>Modify piping by cutting and capping lines and removing several valves</u> Applicable Manufacturer's Data Reports to be attached

per DCN W17929 WP2205-93.

.

۲

ASME Code, Section XI.  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Certificate of Authorization No. N/A  Certificate of Authorization No. N/A  Certificate of Authorization No. N/A  Certificate of Authorization No. N/A  Certificate of Authorization No. N/A  Certificate of Authorization No. N/A  Certificate of Authorization No. N/A  Certificate of Authorization No. N/A  Certificate of Authorization No. N/A  Certificate of Authorization No. N/A  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Tenne Ssee</u> and employed by Hartford Steam Boiler Inspect Inspectors and the State or Province of Tenne Ssee and employed by Hartford Steam Boiler Inspect due to components described in this Owner's Report during the period <u>12/16/92</u> to <u>2/15/93</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report during the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any menner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Mart Add 9/26/95  National Board, State, Province, and Endorsements		FICATE OF COMPLIANCE eport are correct and this <u>Replacement</u> conforms to the rules of the
Certificate of Authorization No. N/A Expiration Date N/A Signed Owner or Querry Dationer, Title A.C. Lawrence, MODS Manager or Designee CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by Hartford Steam Boiler Insp. & Ins. Co. of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 12/16/92 to 21/15/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Mark 1/2/16/95 Mark Mark 2/20/95		repair or replacement
Signed <u>V. C. Yoursen</u> , <u>Date 2-75-93</u> , <u>19</u> <u>I.C. Lawrence</u> , <u>MODS' Manager or Designee</u> <u>CERTIFICATE OF INSERVICE INSPECTION</u> , the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>Hartford Steam Boiler Insp. &amp; Ins. Co.</u> of <u>Hartford</u> , <u>Connecticut</u>	Type Code Symbol StampN/A	
Signed	Pertificate of Authorization NoN/A	Expiration Date N/A
CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee	Hennis & Hanza	Date 2-15-93
CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>Hartford Steam Boiler Insp. &amp; Ins. Co</u> have inspected the components described in this Owner's Report during the period12/16/92to, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection	Owner or Gwoork Dasignee, Title I.C. Lawrence: /MODS Manager or De	
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>Tennessee</u> and employed by <u>Hartford Steam Boiler Insp. &amp; Ins. Co.</u> of <u>Hartford</u> , <u>Connecticut</u> have inspected the components described in this Owner's Report during the periodlef(92tohave inspected the components described to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any menner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. <i>Minet Mark</i> 9/30/95	CERTIFIC	ATE OF INSERVICE INSPECTION
by Province of <u>Tennessee</u> and employed by <u>Hartford Steam Boiler Insp. &amp; Ins. Co. of</u> <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>12/16/93</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. <u>Mbot Jack</u> <u>9/3095</u>		
<u>Hartford, Connecticut</u> in this Owner's Report during the period $\frac{12/16/9.2}{12/16/9.2}$ to $\frac{3/15/9.3}{15/9.3}$ , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $MbmT$ and $9/30/95$ MbctT and $2/20/95$	, the undersigned, noronny a valid commission issued o	
in this Owner's Report during the period $\frac{12/16/92}{12/16/92}$ to $\frac{2/15/93}{15/93}$ , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $MbmT$ and $9/30/95$ MbctT and $9/30/95$	Requirem of TERRESSEE and employe	ed by Hartford Steam Boiler Insp. & Ins. Coof
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. <i>What Taken 9/30/95</i> <i>Commissions NB 6 20 8</i> <i>TM 3135</i>	or Province of <u>Tennessee</u> and employe	ed by <u>Hartford_Steam_Boiler_Insp&amp;_InsCo</u> of
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	or Province of <u>Tennessee</u> and employe Hartford, Connecticut	ed by Hartford Steam Boiler Insp. & Ins. Co. of
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. <i>What Turk 9/30/95</i> <u>Commissions NB6908 TN 3135</u>	or Province of <u>Tennessee</u> and employee <u>Hartford</u> , <u>Connecticut</u> In this Owner's Report during the period <u>12//6</u> to the best of my knowledge and belief, the Owner h	ed by <u>Hartford Steam Boiler Insp. &amp; Ins. Co.</u> of have inspected the components described <u>6/93</u> to, and state that has performed examinations and taken corrective measures described in this
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. <u>Mont Table</u> 9/20/95 <u>Commissions</u> <u>NB6908</u> <u>TN 3135</u>	or Province of <u>Tennessee</u> and employee <u>Hartford</u> , <u>Connecticut</u> in this Owner's Report during the period <u>12</u> /16 to the best of my knowledge and belief, the Owner h Owner's Report in accordance with the requirements o	ed by <u>Hartford Steam Boiler Insp. &amp; Ins. Co.</u> ofhave inspected the components described <u>6/92</u> have inspected the components described <u>6/92</u> , and state that has performed examinations and taken corrective measures described in this of the ASME Code, Section XI.
inspection. Albert Tald 9/20/95 Commissions_NB6208_TN 3135	or Province of <u>Tennessee</u> and employed <u>Hartford</u> , <u>Connecticut</u> in this Owner's Report during the period <u>12/16</u> to the best of my knowledge and belief, the Owner h Owner's Report in accordance with the requirements o By signing this certificate neither the Inspector no	ed by Hartford Steam Boiler Insp. & Ins. Co of have inspected the components described 6/92have inspected the components described has performed examinations and taken corrective measures described in this of the ASME Code, Section XI. or his employer makes any warranty, expressed or implied, concerning the
Albert Tala Commissions_NB6208_TN 3135	or Province of <u>Tennessee</u> and employed <u>Hartford</u> , <u>Connecticut</u> in this Owner's Report during the period <u>12/16</u> to the best of my knowledge and belief, the Owner h Owner's Report in accordance with the requirements o By signing this certificate neither the Inspector no examinations and corrective measures described in the	ed by Hartford Steam Boiler Insp. & Ins. Co. of have inspected the components described 6/92have inspected the components described has performed examinations and taken corrective measures described in this of the ASME Code, Section XI. or his employer makes any warranty, expressed or implied, concerning the this Owner's Report. Furthermore, neither the Inspector nor his employer
Commissions_ <u>NB6208_TN3135</u> Inspector's Signature Commissions_ <u>NB6208_TN3135</u> National Board, State, Province, and Endorsements	or Province of <u>Tennessee</u> and employed <u>Hartford</u> , <u>Connecticut</u> in this Owner's Report during the period <u>12/16</u> to the best of my knowledge and belief, the Owner h Owner's Report in accordance with the requirements o By signing this certificate neither the Inspector no examinations and corrective measures described in the shall be liable in any manner for any personal injury of	ed by Hartford Steam Boiler Insp. & Ins. Co. of have inspected the components described 6/92have inspected the components described has performed examinations and taken corrective measures described in this of the ASME Code, Section XI. or his employer makes any warranty, expressed or implied, concerning the this Owner's Report. Furthermore, neither the Inspector nor his employer
Inspector's Signature National Board, State, Province, and Endorsements	or Province of <u>Tennessee</u> and employed <u>Hartford</u> , <u>Connecticut</u> in this Owner's Report during the period <u>12/16</u> to the best of my knowledge and belief, the Owner h Owner's Report in accordance with the requirements o By signing this certificate neither the Inspector no examinations and corrective measures described in the shall be liable in any manner for any personal injury of	ed by Hartford Steam Boiler Insp. & Ins. Co. of have inspected the components described 6/92have inspected the components described has performed examinations and taken corrective measures described in this of the ASME Code, Section XI. or his employer makes any warranty, expressed or implied, concerning the this Owner's Report. Furthermore, neither the Inspector nor his employer
	or Province of <u>Tennessee</u> and employed <u>Hartford</u> , <u>Connecticut</u> in this Owner's Report during the period <u>12/16</u> to the best of my knowledge and belief, the Owner h Owner's Report in accordance with the requirements o By signing this certificate neither the Inspector no examinations and corrective measures described in the shall be liable in any manner for any personal injury of	ed by Hartford Steam Boiler Insp. & Ins. Co. of have inspected the components described 6/92 to $2/15/93$ , and state that has performed examinations and taken corrective measures described in this of the ASME Code, Section XI. or his employer makes any warranty, expressed or implied, concerning the this Owner's Report. Furthermore, neither the Inspector nor his employer or property damage or a loss of any kind arising from or connected with this 20/95
	or Province of <u>Tennessee</u> and employed <u>Hartford</u> , <u>Connecticut</u> in this Owner's Report during the period <u>12/16</u> to the best of my knowledge and belief, the Owner h Owner's Report in accordance with the requirements o By signing this certificate neither the Inspector no examinations and corrective measures described in the shall be liable in any manner for any personal injury of inspection. <u>Mont</u> and <u>9/2</u>	ed by Hartford Steam Boiler Insp. & Ins. Co. of have inspected the components described 6/92 to $2/15/93$ , and state that has performed examinations and taken corrective measures described in this of the ASME Code, Section XI. or his employer makes any warranty, expressed or implied, concerning the this Owner's Report. Furthermore, neither the Inspector nor his employer or property damage or a loss of any kind arising from or connected with this 20/95
Date	br Province of <u>Tennessee</u> and employed <u>Hartford</u> , <u>Connecticut</u> in this Owner's Report during the period <u>12/16</u> to the best of my knowledge and belief, the Owner h Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector no examinations and corrective measures described in the shall be liable in any manner for any personal injury of inspection. <u>Inspector's Signature</u>	ed by Hartford Steam Boiler Insp. & Ins. Co. of have inspected the components described 6/92 to $2/15/93$ , and state that has performed examinations and taken corrective measures described in this of the ASME Code, Section XI. or his employer makes any warranty, expressed or implied, concerning the this Owner's Report. Furthermore, neither the Inspector nor his employer or property damage or a loss of any kind arising from or connected with this 20/95

Page 48 of 185

				` 			
. SIT			, ASME SECT			-	SP-6.9
STAND		•	REPAIRS AND RE	SPLACEMENTS		MAY 2	2 1992
- PRACTI	ICE			· •		I	
<u></u>	l			<u> </u>			
				<u> </u>			
		• ,	FORM SS				
		co	(Page 1) NTINUATION SHE				
•	<b>_</b>				•		
1. (OWNER)	TENNESSEE VAL	LEY AUTHORI	TY	•			
	1101 MARKET S	STREET					
	CHATTANOCGA,	TN 374	02-2801				
2. (PLANT)	BROWNS FERRY	NUCLEAR PLAN	NT	•		SHEET	2 of -
	P.O. BOX 2000	)					
	DECATUR, ALAE	BAMA 356	09			UNIT	_2
					NODY DO		1005 00
•					NURK DO	CUMENT (S) WP	205-93
3. WORK PERFO	RMED BY: Ten	nessee V	alley Auth	ority	TYPE CO	DE SYMBOL STA	MP ^b _N/A
			COMPANY				
	. Pos	t Office	Box 2000	· · ·	AUTHORI	ZATION NO. ^b	<u>N/A</u>
	ADDR	ESS					
<b></b>	Dec	atur, AL	35609		EXPIRAT	ION DATE	<u>N/A</u>
		AND STATE					
			Auxiliary				
			<u>USAS B31.1</u>				<u> </u>
			ADDEN	DA, CODE CASE	C(S)	N/A	
C/D) NDD 7/7							
			I UTILIZER:.FC	R'REPAIRS OR	REPLACEM		
		MPONENTS REI	PAIRED OR REPL	R'REPAIRS OR	REPLACEM	OMPONENTS	
	FICATION OF CC	MPONENTS REI MANUFAC-	PAIRED OR REPL	R'REPAIRS OR ACED AND RE?!	REPLACEM	REPAIRED,	
6. IDENTIF	NAME OF	MPONENTS REI MANUFAC- TURER	PAIRED OR REPL     NATIONAL	R'REPAIRS OR ACED AND RE?!     OTHER	REPLACEMI ACEMENT I	REPAIRED, REPLACED,	STAMP
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL	PAIRED OR REPL     NATIONAL   BOARD	R'REPAIRS OR ACED AND RE?!     OTHER   IDENTI-	REPLACEMI ACEMENT • 1       YEAR	COMPONENTS   REPAIRED,   REPLACED,   OR	STAMPE (YES C
6. IDENTIF	ICATION OF CO NAME OF   NAMUFAC-	MPONENTS REI MANUFAC- TURER	PAIRED OR REPL     NATIONAL	R'REPAIRS OR ACED AND RE?!     OTHER   IDENTI-	REPLACEMI ACEMENT • 1       YEAR	REPAIRED, REPLACED,	STAMPE (YES O
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL	PAIRED OR REPL     NATIONAL   BOARD	R'REPAIRS OR ACED AND RE?!     OTHER   IDENTI-	REPLACEMI ACEMENT • 1       YEAR	COMPONENTS   REPAIRED,   REPLACED,   OR	STAMPE
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO.	PAIRED OR REPL     NATIONAL   BOARD   NO.   	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION   	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE (YES O NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO.	PAIRED OR REPL     NATIONAL   BOARD	R'REPAIRS OR ACED AND RE?!     OTHER   IDENTI-	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR	STAMPE   (YES C   NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO.	PAIRED OR REPL     NATIONAL   BOARD   NO.   	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION   	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE (YES O NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO.	PAIRED OR REPL     NATIONAL   BOARD   NO.   	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION   	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE (YES O NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO.	PAIRED OR REPL     NATIONAL   BOARD   NO.   	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION   	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE (YES O NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO.	PAIRED OR REPL     NATIONAL   BOARD   NO.   	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION       N/A     	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE (YES O NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO.	PAIRED OR REPL     NATIONAL   BOARD   NO.   	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION   	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A	PAIRED OR REPL I NATIONAL BOARD I NO. I I N/A I I I I I I I I I I I I I I I I I I I	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION       N/A     	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A	PAIRED OR REPL I NATIONAL BOARD I NO. I I N/A I I I I I I I I I I I I I I I I I I I	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION       N/A     	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE (YES O NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO.	PAIRED OR REPL I NATIONAL BOARD I NO. I I N/A I I I I I I I I I I I I I I I I I I I	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION       N/A     	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE (YES O NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A	PAIRED OR REPL I NATIONAL BOARD I NO. I I N/A I I I I I I I I I I I I I I I I I I I	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION       N/A     	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A	PAIRED OR REPL I NATIONAL BOARD I NO. I I N/A I I I I I I I I I I I I I I I I I I I	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION       N/A     	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE   (YES C   NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A	PAIRED OR REPL I NATIONAL BOARD I NO. I I N/A I I I I I I I I I I I I I I I I I I I	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION       N/A     	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE   (YES C   NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A	PAIRED OR REPL I NATIONAL BOARD I NO. I I N/A I I I I I I I I I I I I I I I I I I I	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION       N/A     	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE (YES O NO)
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A	PAIRED OR REPL I NATIONAL BOARD I NO. I I N/A I I I I I I I I I I I I I I I I I I I	R'REPAIRS OR ACED AND RE?     OTHER   IDENTI-   FICATION       N/A     	REPLACEMENT Y ACCEMENT Y I I YEAR BUILT	COMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT	STAMPE   (YES C   NO)
6. IDENTIF	Capitol	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A	PAIRED OR REPL   NATIONAL   BOARD   NO.   N/A     N/A   	R'REPAIRS OR ACED AND RE?? I OTHER I DENTI- I FICATION I I I I I I I I I I I I I	REPLACEMENT T ACEMENT T I I I I I I I I I I I I I	DMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT     Replaceme	STAMPE   (YES C   NO)
6. IDENTIF	Capitol	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A	PAIRED OR REPL I NATIONAL BOARD I NO. I I N/A I I I I I I I I I I I I I I I I I I I	R'REPAIRS OR ACED AND RE?? I OTHER I DENTI- I FICATION I I I I I I I I I I I I I	REPLACEMENT T	DMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT     Replaceme	STAMPE
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A M/A DER OF CONTIN	PAIRED OR REPL	R'REPAIRS OR ACED AND RE?? I OTHER I DENTI- I FICATION I I I I I I I I I I I I I	REPLACEMENT T	DMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT     Replaceme	STAMPE   (YES C   NO)
6. IDENTIF	TICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A N/A MA O2/15/ DER OF CONTIN	PAIRED OR REPL	R'REPAIRS OR ACED AND RET OTHER I OTHER I DENTI- FICATION I I I I I I I I I I I I I	REPLACEMENT T ACEMENT T I I I I I I I I I I I I I	Imponents         REPAIRED,         REPLACED,         OR         IREPLACEMENT         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I <td< td=""><td>  STAMPE   (YES C   NO)    </td></td<>	STAMPE   (YES C   NO)   
6. IDENTIF	ICATION OF CO	MPONENTS REI MANUFAC- TURER SERIAL NO. N/A N/A MA O2/15/ DER OF CONTIN	PAIRED OR REPL	R'REPAIRS OR ACED AND RET OTHER I OTHER I DENTI- FICATION I I I I I I I I I I I I I	REPLACEMENT T ACEMENT T I I I I I I I I I I I I I	DMPONENTS   REPAIRED,   REPLACED,   OR   REPLACEMENT     Replaceme	STAMP    (YES (   NO)   

Page <u>49</u> of <u>165</u>





~ ( •