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Document Control Branch (Document Control Desk)

SUBJECT: Forwards "Brown Ferry Nuclear Plant Unit 2, Cycle 7 ISI NIS-1 Rept," in accordance w/paragraphs IWA-6220 & IWA-6230 of ASME B&PV Code, Section XI, 1986 Edition.

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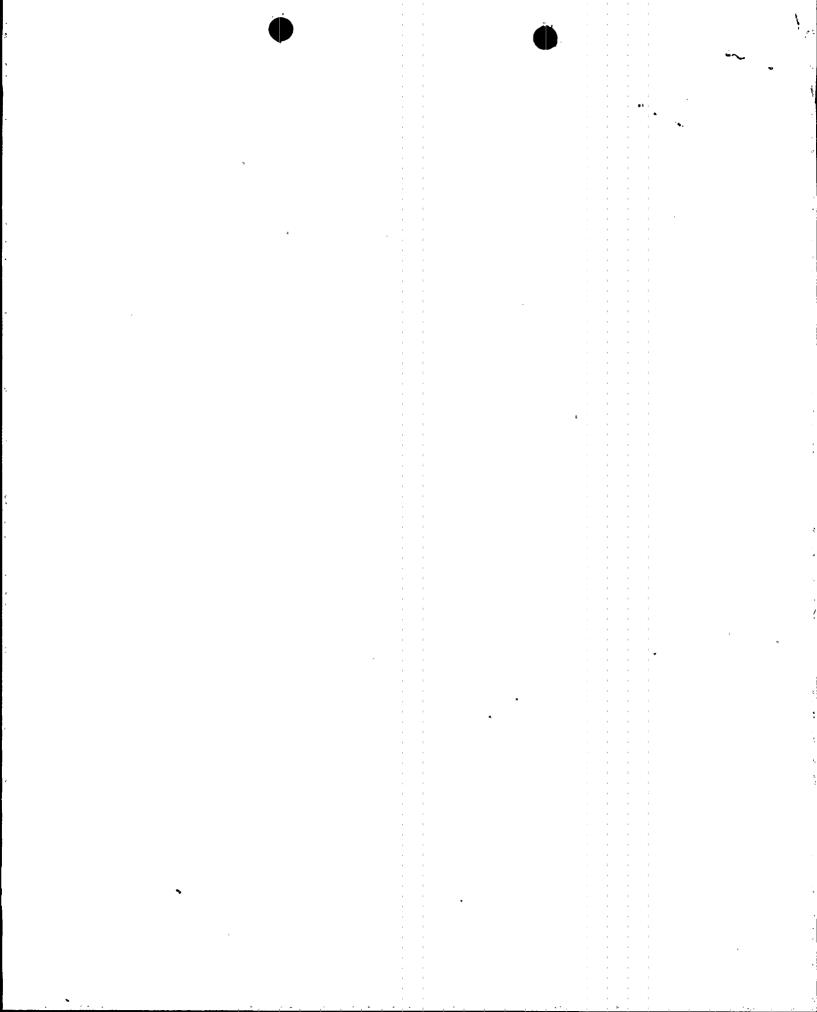
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Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609

February 13, 1995

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

Gentlemen:

In the Matter of Tennessee Valley Authority Docket No. 50-260

BROWNS FERRY NUCLEAR PLANT (BFN) - UNIT 2 CYCLE 7 INSERVICE INSPECTION, REPAIR AND REPLACEMENT, AND PRESERVICE INSPECTION SUMMARY REPORTS

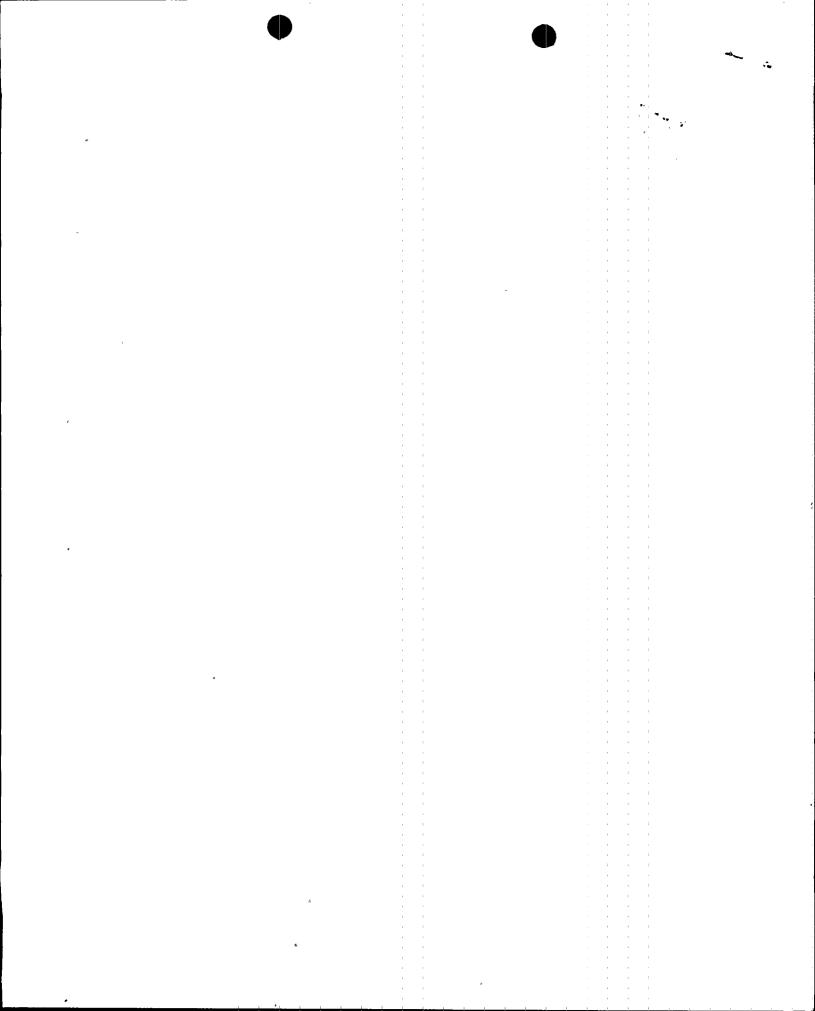
In accordance with paragraphs IWA-6220 and IWA-6230 of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, 1986 Edition, TVA submits the BFN Unit 2 Cycle 7 summary reports for NRC review. In addition, TVA is including corrections to the BFN Unit 2 Cycle 6, inservice inspection and repair and replacement reports.

Enclosures 1 and 2 respectively contain historical records of BFN Unit 2 Cycle 7, inservice inspection and repair and replacement summary reports for Code Class 1 and 2 pressure retaining components and their supports. Enclosure 3 contains the preservice inspection report for Code Class 1 and 2 components. These reports are for activities that were performed from June 4, 1993 through November 23, 1994.

Additionally, Enclosure 4 provides corrections to BFN Unit 2 Cycle 6 inservice inspection and repair and replacement reports. The corrections included, changes such as revising a component's category item number and clarifying a component's examination type.

15 019

9502160048 950213 PDR ADDCK 05000260 PDR AOA7



U.S. Nuclear Regulatory Commission Page 2 February 13, 1995

There are no commitments contained in this letter. If you have any questions please contact me at (205) 729-2636.

1) What is a second

Manager of Site Licensing

Enclosures.

cc (Enclosures):

Mr. Mark S. Lesser, Section Chief U.S. Nuclear Regulatory Commission Region II 101 Marietta Street, NW, Suite 2900 Atlanta, Georgia 30323

NRC Resident Inspector Browns Ferry Nuclear Plant Route 12, Box 637 Athens, Alabama 35611

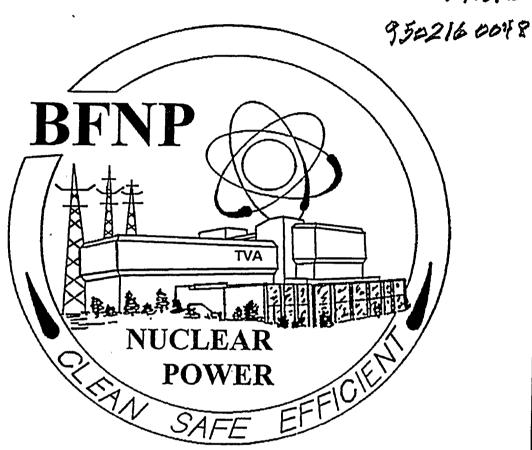
Mr. J. F. Williams, Project Manager U.S. Nuclear Regulatory Commission One White Flint, North 11555 Rockville Pike Rockville, Maryland 20852

ENCLOSURE 1

BROWNS FERRY NUCLEAR PLANT

UNIT 2, CYCLE 7
INSERVICE INSPECTION NIS-1 REPORT

50-260 2/13[95

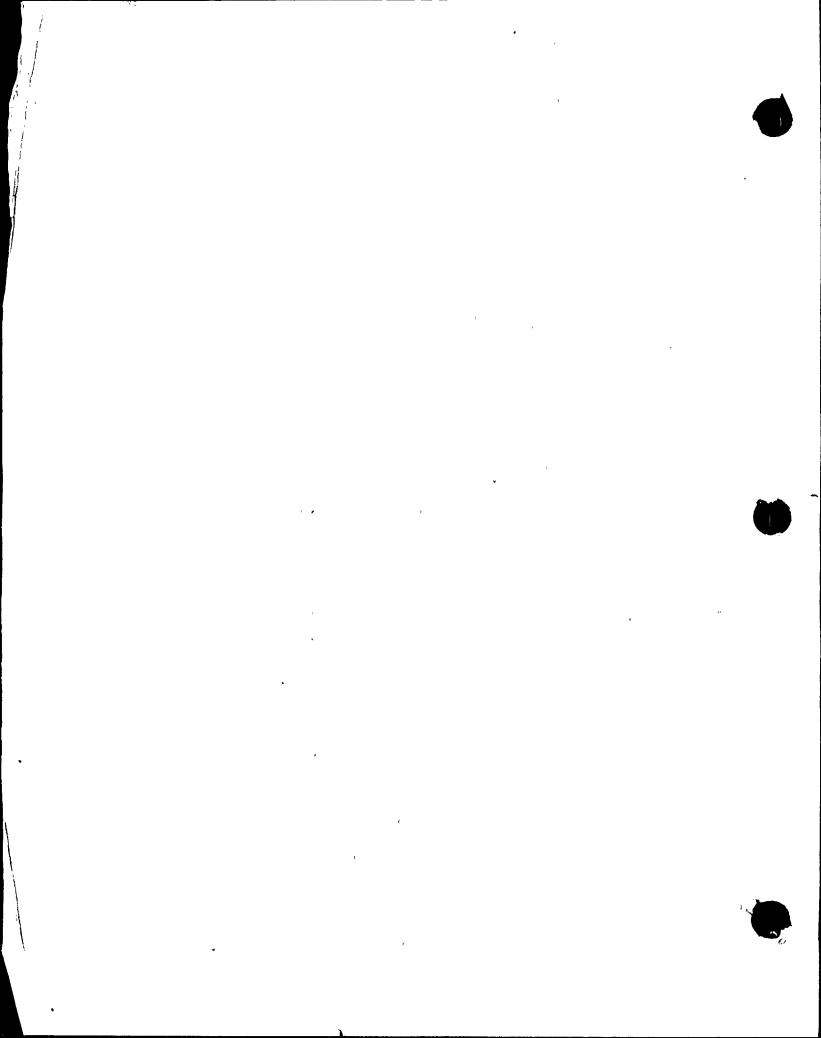


TENNESSEE VALLEY AUTHORITY

PREPARED BY: Prepa

REVIEWED BY: Trusterin W. Frostello J. 1-12-95

H.L. WILLIAMS, MANAGER 1/12/95
ENGINEERING & MATERIAL'S



9502168048

ENCLOSURE 2

BROWNS FERRY NUCLEAR PLANT

UNIT 2 CYCLE 7

ASME SECTION XI

NIS-2 DATA REPORT

OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

APPENDIX I	Summary of Repair and			
	Replacement Activities			
APPENDIX II	Form NIS-2 Owner's Report For			
	Renairs or Renlacements			

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

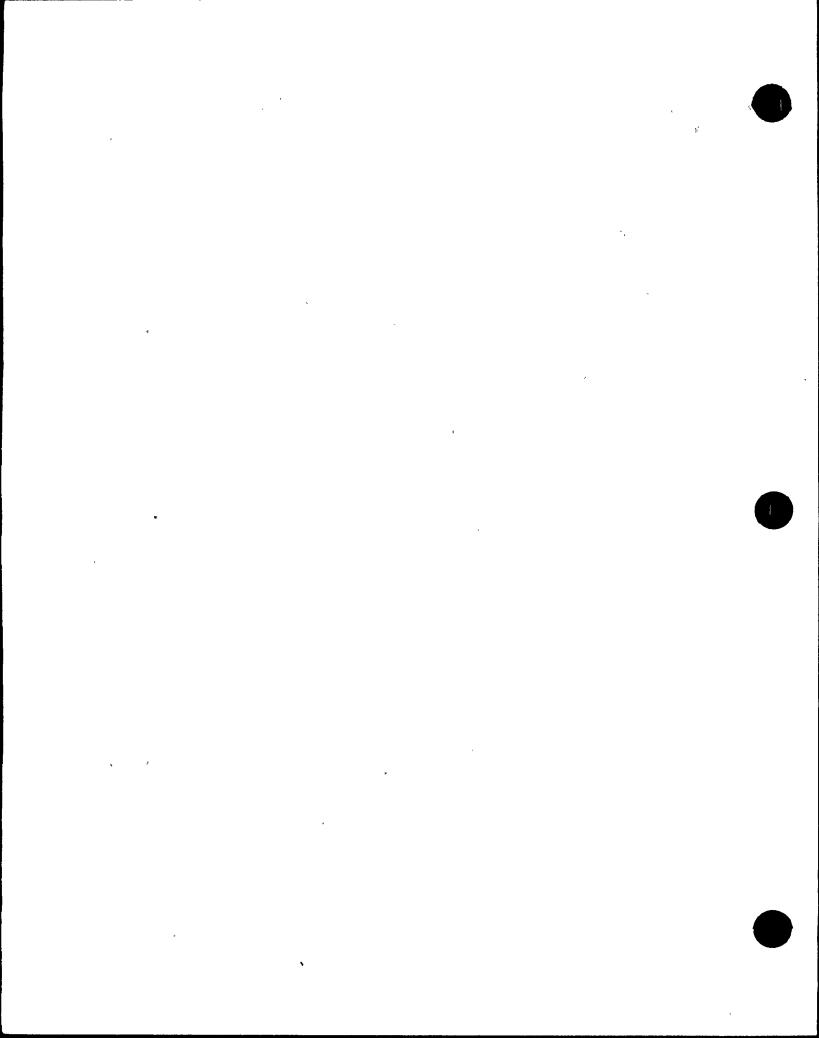
Certificate of Authorization: Not Required

Commercial Service Date: March 1, 1975

National Board Number For Unit: Not Required

APPENDIX I

SUMMARY OF REPAIR AND REPLACEMENT ACTIVITIES



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

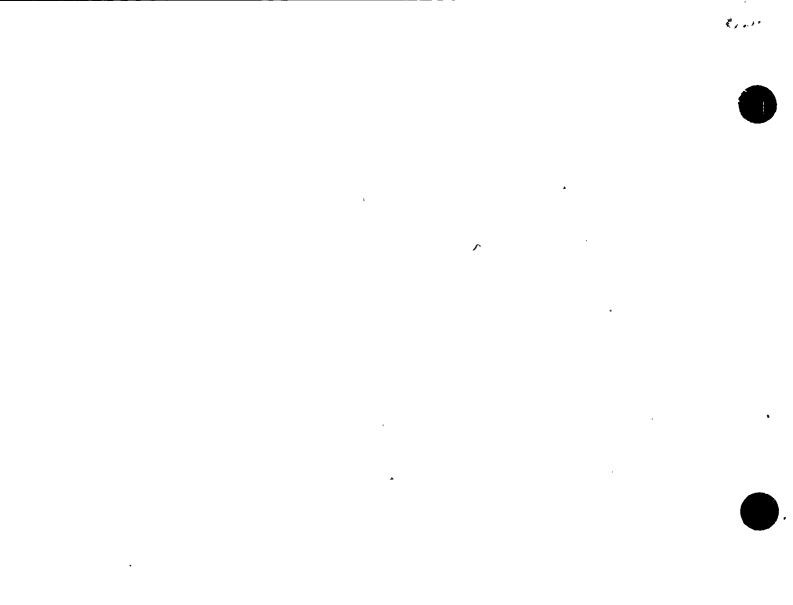
Certificate of Authorization: Not Required

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 7 period of operation. 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.



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

<u>wid</u>	<u>sys</u>	<u>ORG</u>	<u>CLASS</u>	<u>ACTIVITY</u>
92-60477-04	1	TVA	1	REPAIRED
92-60447-05	1	TVA	1	REPLACED
94-09849-00	1	TVA	1	REPLACED
94-09849-01	1	TVA	1	REPLACED
94-09849-02	1	TVA	1	REPLACED
94-09849-03	1	TVA	1	REPLACED
94-09849-04	1	TVA	1	REPLACED
94-09849-05	1	TVA	1	REPLACED
94-09849-06	1	TVA	1	REPLACED
94-09849-07	1	TVA	1	REPLACED
94-09849-08	1	TVA	1	REPLACED
94-09849-09	1	TVA	1	REPLACED
94-09849-10	1	TVA	1	REPLACED
94-09849-11	1	TVA	1	REPLACED
94-09849-12	1	TVA	1	REPLACED
94-15972-01	1	TVA	1	REPLACED
94-06277-00	63	TVA	2	REPLACED
94-00227-00	68	TVA	1	REPLACED
94-09648-00	68	GE	1	REPAIRED
94-11598-01	68	GE	1	REPAIRED
94-11598-02	68	GE	1	REPAIRED
94-13986-00	68	GE	1	REPLACEMENT
94-15880-00	68	GE	1	REPLACED/
				REPLACEMENT
W21635-001	68	GE	1	REPAIRED
94-01951-00	71	TVA	2	REPLACED

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

<u>wid</u>	<u>sys</u>	<u>ORG</u>	<u>CLASS</u>	ACTIVITY
93-02108-00	74	TVA	2	REPLACED
94-09648-01	74	GE	1	REPAIRED
94-11598-03	74	GE	1	REPAIRED
94-09980-00	75	GE	1	REPAIRED
94-10308-00	85	NES	1	REPLACED/
				REPLACEMENT
94-10308-01	85	NES	1	REPLACED/
				REPLACEMENT
94-10308-02	85	NES	1	REPLACED/
_				REPLACEMENT
94-10308-03	85	NES	1	REPLACED/
,				REPLACEMENT
94-10308-04	85	NES	1	REPLACED/
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94-10308-05	85	NES	1	REPLACED/
<i>y</i> . 20000 00				REPLACEMENT
94-10308-06	85	NES	1	REPLACED/
<i>71 10000 00</i>				REPLACEMENT
94-10308-07	85	NES	1	REPLACED/
J4 10300 07	0.5	11,20	_	REPLACEMENT
94-10308-08	85	NES	1	REPLACED/
9 4- 10300-00	03	1120	_	REPLACEMENT
94-10308-09	85	NES	1	REPLACED/
J4-10300 07	00	1120	_	REPLACEMENT
94-10308-10	85	·NES	1	REPLACED/
74-10200-10	0.5	A (200	•	REPLACEMENT
94-10308-11	85	NES	1	REPLACED/
34-10300-11	0.5	1120	•	REPLACEMENT

Nuclear Power Group 1101 Market Street

Chattanooga, TN 37402-2801

Plant: Browns Ferry Nuclear Plant

P.O. Box 2000

Decatur, AL 35609-2000

Unit:

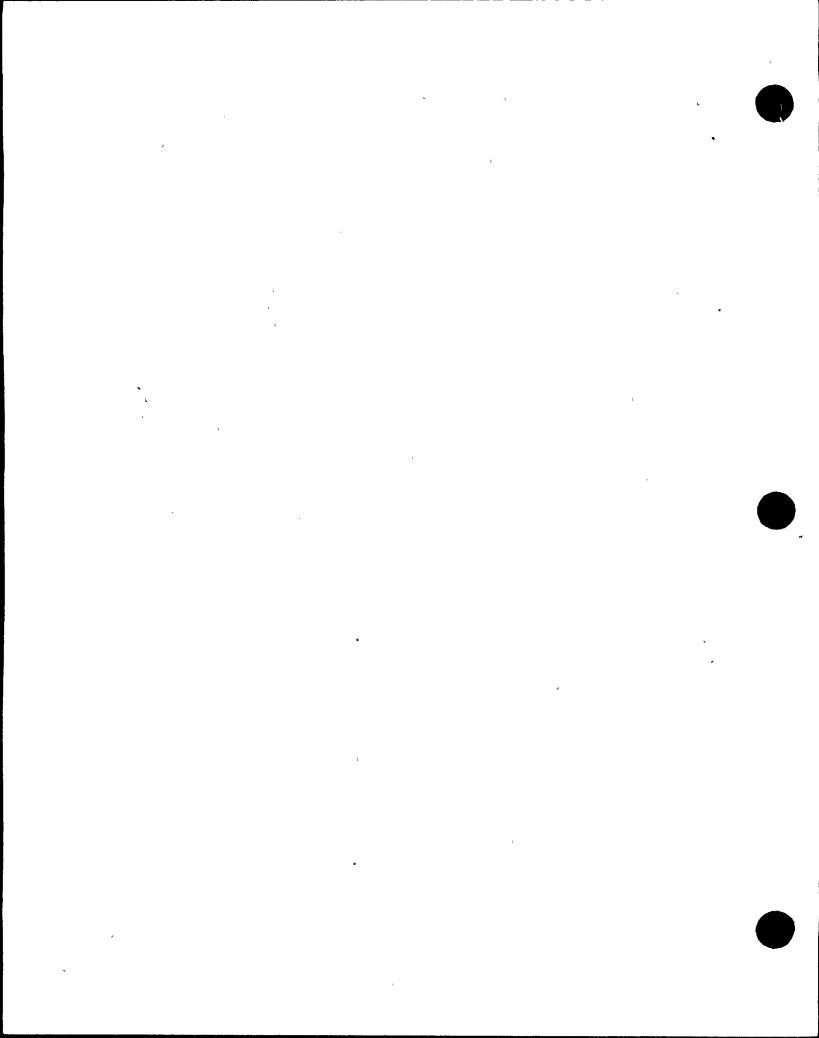
Two

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>	CLASS	ACTIVITY
94-10308-12	85	NES	1	REPLACED/ REPLACEMENT
94-10308-13	85	NES	1	REPLACED/ REPLACEMENT
94-10308-16	85	NES	1	REPLACED
94-10308-17	85	NES	1	REPLACED
94-10308-18	85	NES	1	REPLACED
94-10308-19	85	NES	1	REPLACED
94-10308-20	85	NES	1	REPLACED



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. Wxxxxx-xxx refers to a workplan 9x-xxxxx-xx refers to a work order

SYS - System

1 - Main Steam

74 - Residual Heat Removal

63 - Standby Liquid Control

75 - Core Spray

68 - Reactor Water Recirculation

85 - Control Rod Drive

71 - Reactor Core Isolation Cooling

ORG - Organization which performed the WID

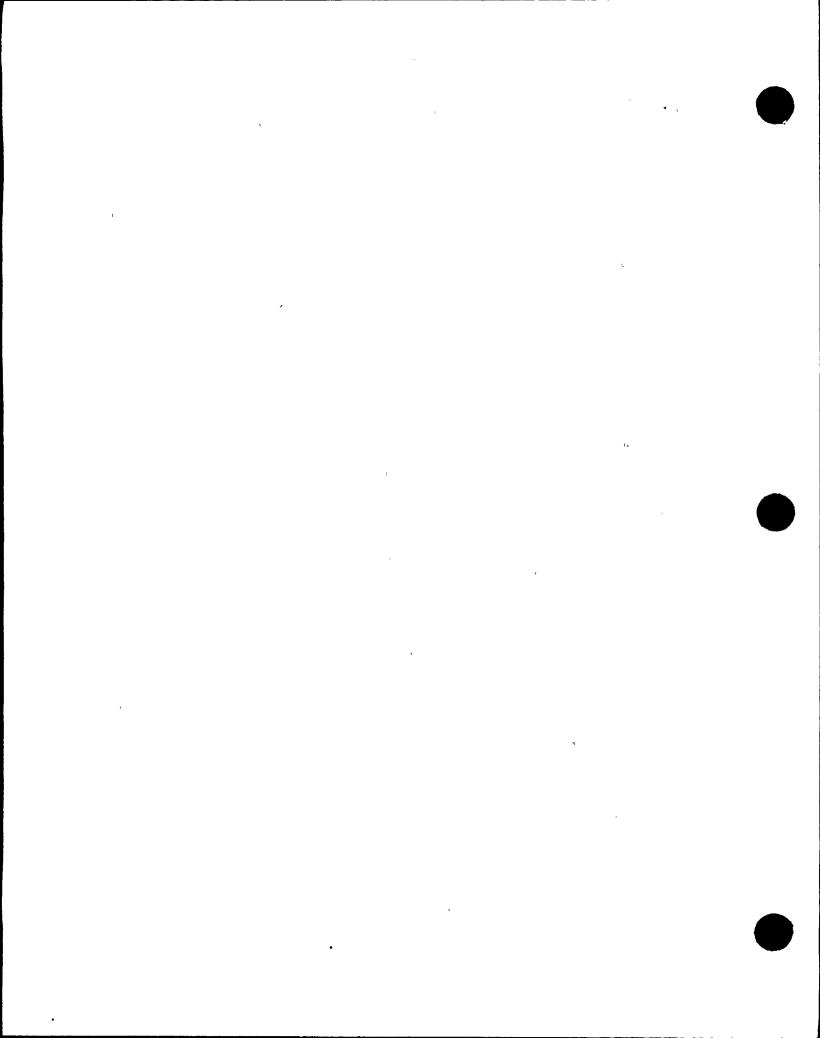
TVA - Work performed by TVA utilizing TVA and/or Stone and Webster **Engineering Corporation personnel**

GE - General Electric Company

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



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 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

			v				
1. Owner TENNESS	SEE VALLEY AU	JTHORITY		Date January	18, 1	995	
	rket St. Name			•	_		٧_
Chattar	nooga, TN 37	402-2801		Sheeto	f/_		
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2 Work Orde	ma 02	60447-04	
			2000				
P.O. Box 200	O; Decatur, Address	AL 33609-	2000	and 92 Repair Orga	nization P	.O. No., Job No.,	etc.
				Type Code Symbol			**
3. Work Performed by	IVA	Name		Authorization No	Stamp	N/A	
				Expiration Date		N/A	
P.O. BOX 200	00; Decatur, Address	<u>кь ээооэ-</u>	2000	Expiration Date			
4. Identification of Sys	Syst	em 1, Main	Steam				
5. (a) Applicable Cons	usa Code USA	S B31.1.0 19	67 Edition.	N/A A	ddenda	N/A	_Code Case
(h) Applicable Editi	ion of Section XI Ut	ilized for Repairs	or Replacement	1986			
4 Application colo	.0 0. 0.0	,,,,col to, ttopono				1	
6. Identification of Co	moonents Repaired	or Replaced and R	eplacement Cor	nponents			
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		-				1	1
							ASME
						Repaired,	Code Stamped
A)	Alama a4	110000000000000000000000000000000000000	National Board	Other	Year	Replaced,	(Yes
Name of Component	Name of Manufacturer	Manufacturer Serial No.	No.	Identification	Built	or Replacement	or No)
Component		, , , , , ,					
							ļ
Main Steam Line	Target	TVA stamped	4 -	2-PCV-001	l	Repaired/	
B Relief Valve	Rock Corp.	S/N 1033	N/A	-0018	N/A	Replaced	No
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7. Description of Work	<u>studs and nut</u>	s. The MSRV	is an ASME C	ode Class I equi	ivaient	component.	
	_	_		(77)			
8. Tests Conducted:	Hydrostatic P	neumatic 🔲 No	minal Operating	Pressure [X]			
A	Other Pressure	<u>N/A</u> psi	Test Temp			T	
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NOTE: Supplement	ital sheets in form o	of lists, sketches, o	or drawings may	be used, provided (1)) size is 8½ nharad ==	4 in. x 11 in., (2)	intorma-
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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) This form (E00030) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 4/93 and ASME Section III, Article 9, 1965 Edition along with supplemental requirements contained within

Page __2 _ of __148__

contract 66C60-90744

FORM NIS-2 (Back)

9.	Remarks The MSRV having S/N 1033 was originally removed from the position designated Z-PCV-1-34
	Applicable Manufacturer's Data Reports to be attached during the Unit 2, Cycle 6 outage (reference WO 92-60447-00) for purposes of performing 0-SI-4.6.D-V Disassemble One Relief Valve. WO 92-60447-04 contained the instructions for removing the indication
	and replacing various study and nuts whereas WO 92-60447-05 installed the valve at the noted
	position of 2-PCV-1-18. In addition to performing a system leakage test per 2-SI-3.3.1.A following
	installation, tests conducted which were performed to satisfy ASME Sec. XI inservice test require-
	ments include O-SI-4.6.D.1, Bench Test Relief Valves, and 2-SI-4.6.D.2, Main Steam Relief Valves
	Manual Cycle Test.
<u> </u>	CERTIFICATE OF COMPLIANCE repair and
	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. repair or replacement
	•
	27.4
	Type Code Symbol StampN/A
II.	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Hillip System ENGINEER Date JANUARY 18, 1995
	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 TENN and employed by HSBT & I of
	in this Owner's Report during the period 9-13-94 to 11-10-94 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,
	MITHAIL
	Inspector's Signature Commissions National Board, State, Province, and Endorsements
	Date

Form NIS-2 Attachment Sheet 2 of 7 WO 92-60447-04 & -05

FORM N-2 N OR BERTIFICATE HOLDERS' DATA ORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES* As Required by the Provisions of the ASME Code, Section III, Division 1

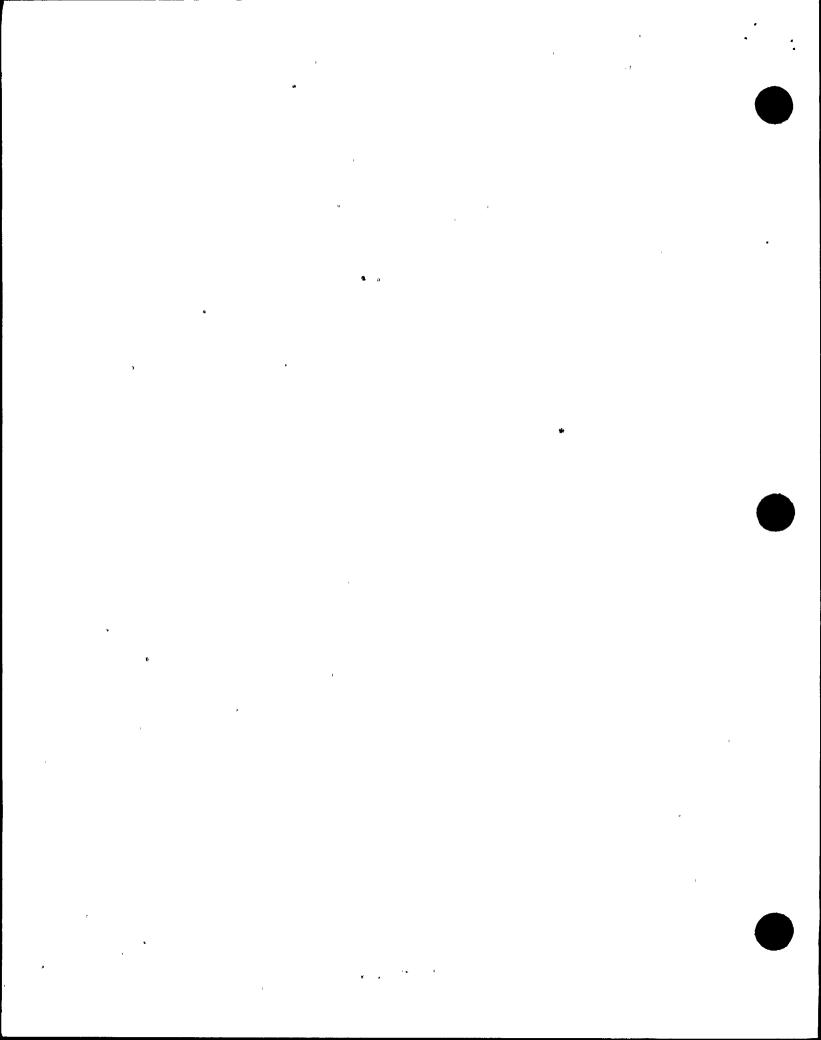
		DEY'S Production		4	Pgol.
1. Manufactured and contifled by Target I	(ock Corp.; 19	66E Broadhollov	Kd; Farmi	ngdale,	NY 11735
2 Manufactured forTennessee Valle	y Authority C	/O Bechtel Corp	unces hower.	AL 3561	.1 .*
. Location of installation Browns Ferry	Nuclear Plans	Near. Athens,	AL 35611	•	2
. Type 102049-4 SA-193		(name and address)	N/A	۰, ۰۰	·1'993 ⁽²⁾
. ASME Code, Section III: \$1968		r 1970	(CRN)		heer build None
Fabricated in accordance with Const. Spec	(Div. 2 only)	A Revision	(ciasa) N/A	Date _	Code Case no)
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1)	Part or Appurtenance Serial Number	⊪ ", National	(26)	Serial	ppurtenance I Number		, • ·	, Boan In Num	ational I Numbe erical On	r der
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"Supplemental information in the form of lists, exerches, or drawings may be used provided (1) size is 8% X 1, (2) information in items 2 and 3 on this data report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form,

(6/85)-1



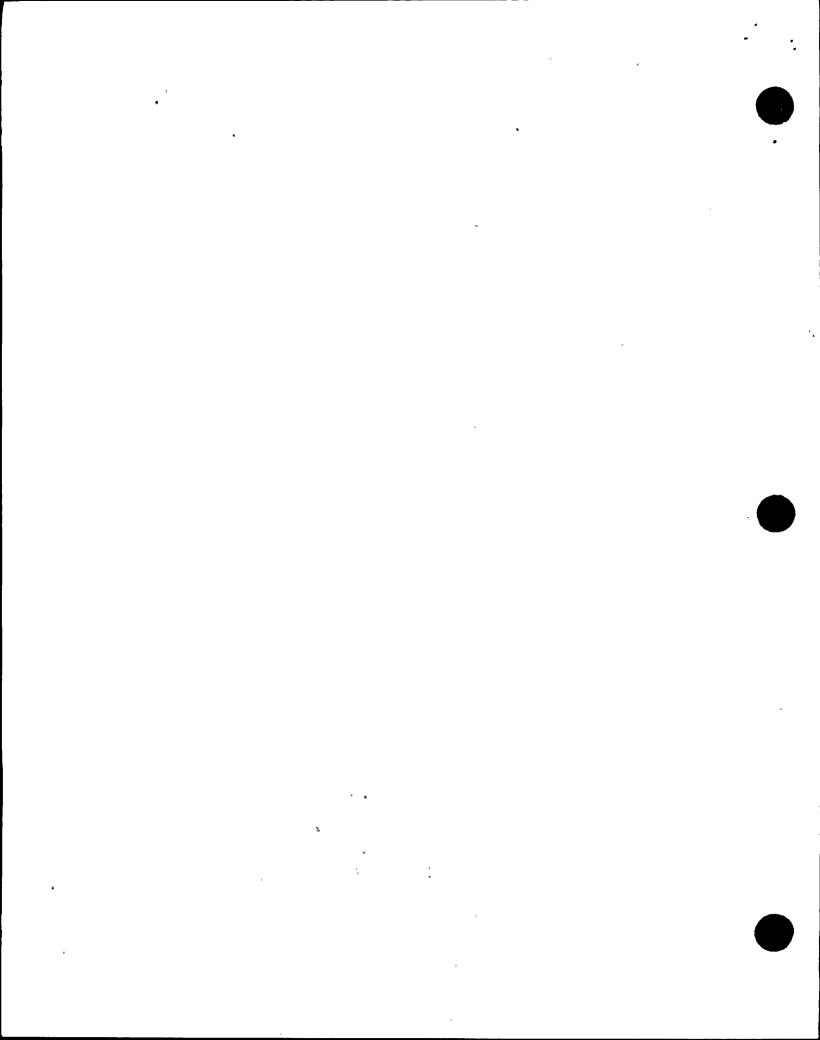


FORM N-2 Back)

Form NIS-2 Attachment Sheet 3 of 7 WO 92-60447-04 & -05

		Mer, Sert	INO. H/A
CERTIFICATE OF E	XEBION 4 C	e -	1,5
Design specifications cartified by R. R. Ghosh	***	P. E. state CA	Reg. no. 16371
(when applicable) Oesign report certified by D. M. Pattarini	• • • • • • • • • • • • • • • • • • • •	P. E. state NY	Reg. no. 029841
(when applicable)	1 the 1		
CERTIFICATE OF SHOP O	COMPLIANCE	•	į
		Part	. **
We certify that the statements made in this report are correct and that this (t conform to the rules of construction of the ASME Code, Section III.)	hese)	·	
NPT Certificate of Authorization no.	Expla	12-12-9	5
Date 5/27/93 Name Target Rock Corporation	Slaned	- lut str	<u> </u>
(NPT Certificate Holder)	fni E	Champey; Dire	ctor, QA 🙃
CERTIFICATE OF SHOP I	NSPECTION	•.	•
t, the undersigned, holding a valid commission issued by the National Board	t of Buller and Bro	anusa Vanasi Inanasiasa	and the state of oro-
nce of New York and employed by Commercial Union			s and the state of pro-
Boston, Mass. have inspected these items described in this d	ata report on	5/27/9	, and state that to the
Sent of my knowledge and belief, the Certificate Holder has fabricated thes		nénces in accordance	with the ASME Code.
Section III, Each part listed has been authorized for stamping on the date s	*		loo the earlies at
By signing this certificate, neither the inspector nor his employer makes a described in this data report. Furthermore, neither the inspector nor his em	-		
property damage or loss of any kind arising from or connected with this in:			
5/21/93 since William (Holand	// N	Y. STATE COMMI O COMMISSIONED IN	SSION NO. 2288 _{РЕИИ.,} оню & соин.
(Authorized Mapector)		(Nat'l. Bd. (Incl. endorseme	inits) state or prov. and no.)

Page __5 __ of __148__



122 0957

Form NIS-2 Attachment Sheet 4 of 7 WO 92-60447-04 & -05

ž.

FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES.

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

		One Day's Producti			Pgol
Manufactured and cortifled b	y Target Rock Corp., 1	966E Broadhollow	Rd, E. Fai	rmingdale.	NY 11735
Manufacture 4 Tennes	see Valley Authority,	Chartanoom Ton		21	
manufactured for Terrico.	oce variey Auchority,	(Name and address of purch	messee 3740	<u> </u>	
ocation of installation _B	rowns Ferry Nuclear Pl				
		(name and address)			
Type PL-7567F-100-11	16 Rev- SA-194 CR 7	N/A	N/A		1986
		(tenede strength)	(CRH)		(year built)
SME Code, Section III:	1968 S	1970 Iddendel	[closs)		N/A
				esed	-
acticated in accordance wi	ith Const. Spec. (Div. 2 only)	(No.)	n	Date	
emarks: Spare Parts	for a completed valve	e assembly			
/ E / O 11 IDIO	. O H N - D	¥ 50 0 0			
(3/0-11 0)(0	2-2 Hex Nut Drilled, 6	X 10 Safety Rel	ief Valve)	QTY 20	
•		• •			
am shiskassa (is) N/A	_ Min. design thickness (in.)	NZA DI IDUI A I	N/A		11/4
han applicable. Cogificate	– Min. design tnickness (in.) – Holders' data reports are attac	had for each tions of thi	Leng	jth overall (ft. 8	k in.) <u>11/ A</u>
Their opprioacie, continue, o		noo for each items of the	s report.		
					*•
Part or Appurtenance	National	Part or Appurt	enance	* Nati	onal '
Serial Number	Board No.	Serial Num	ber	, Board f	Yumber
•	In Numerical Order	11	1	In Numer	ical Order
		1 1	,		
)N/A	N/A	(26)			
)	Į.	(27)			
	- 				
)		(28)			
)	·	(28)			
)	·	(28) (29) (30)			
)	·	(28) (29) (30) (31)			
)		(28) (29) (30) (31) (32)			
)		(28) (29) (30) (31) (32) (33)			
		(28) (29) (30) (31) (32) (33) (34)			
		(28) (29) (30) (31) (32) (33) (34) (35)			
)		(28) (29) (30) (31) (32) (33) (34) (35) (36)			
0)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37)			
0)0)0)0)0)0)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38)			
0)0)0)0)0)0)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39)			
)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38)			
)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40)			
)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41)			
)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44)			
)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43)			
)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44)			
)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47)			
) ————————————————————————————————————		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48)			\$
)		(28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47)			

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

(6/85)-1

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

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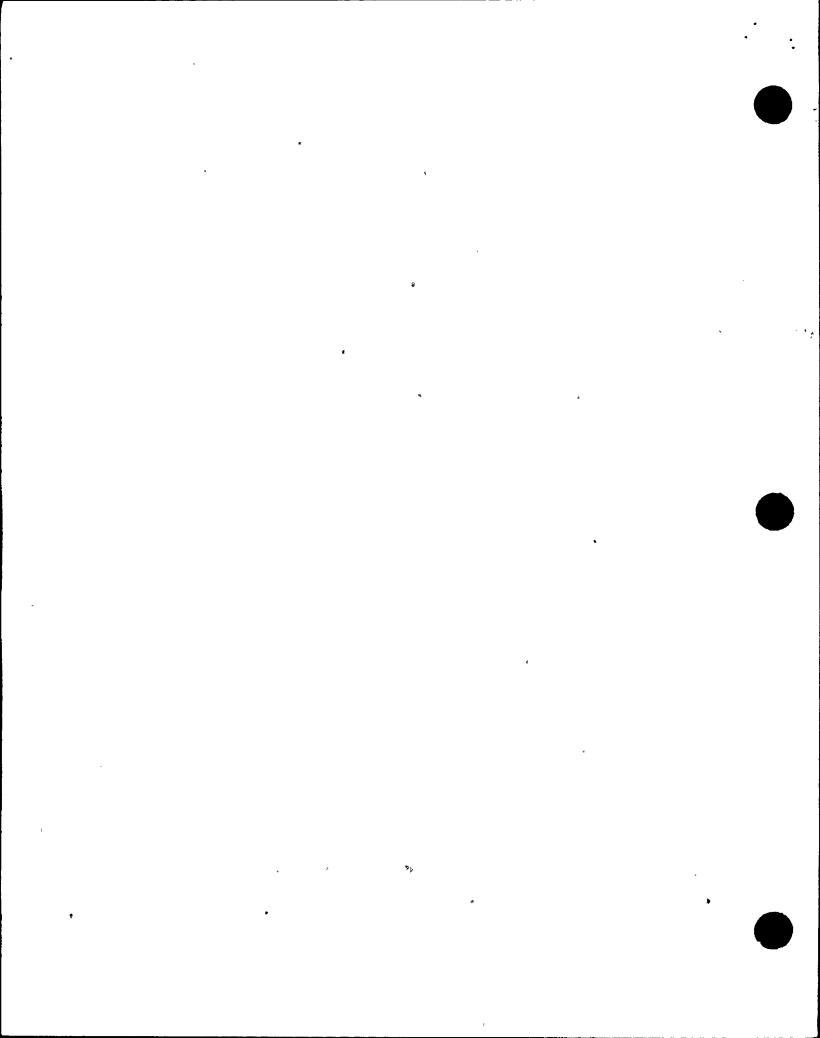
•

Form NIS-2 Attachment Sheet 5 of 7 WO 92-60447-04 & -05

0120 0869

Mfr. Serial No. CERTIFICATE OF DESIGN R. Ghosh P. E. state Calif. Reg. no. 16371 Design specifications certified by (when applicable) Reg. no. 02984 Pattarini N.Y. Design report* certified by. (when applicable) CERTIFICATE OF SHOP COMPLIANCE We certify that the statements made in this report are correct and that this (these). conform to the rules of construction of the ASME Code, Section III. NPT Certificate of Authorization no. _ 12-9-36 Name Target Rock Corporation Abruzzo, CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Ince of New York and employed by Commercial Union Insurance Co. Ince of New York or Boston, Mass. have inspected these items described in this data report on . best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury o property damage or loss of any kind arising from or connected with this inspection. NEW YORK STATE COMMISSION NO. Commissioned in Ponn. Ohio &

Page _ 7 _ of _ 148



Form NIS-2 Attachment Sheet 6 of 7 WO 92-60447-04 & -05

FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES.

e.	Not To Exceed One Day's Production 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	. Manufactured and certified by Target Rock Corp.; 1966E-Broadhollow Rd, E. Farmingdale, NY 11735
2	Manufactured for Tennessee Valley Authority Chattanooga, TN 37401
	Location of Installation Browns Ferry Nuclear Plant, Athens, Alabama-35611
4,	Type See Back See Back See Back N/A 1988
	ASME Code, Section III. 1968 Summer 1970 In N/A
6.	Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
	Remarks: Spare Parts for a completed valve assembly, 25 Bolts, Item 107, 688 Nuts,
	Item 115 for valve style 7567F-000

8. Nom, thickness (in.) N/A Min, design thickness (in.)N/A Die, ID (ft. & in.) N/A Length overall (ft. & in.) N/A

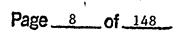
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Humber	Board No. In Numerical Order	Part or Appurtenance Serial Number	National ** Board Number In Numerical Order
(1) <u>N/A</u>	N/A	(26)	
(2)		(27)	•
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)	-	(32)	}
(8)		(33)	
(9)		(34)	
(10) (11)		(35)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	<u> </u>
(20)		(48)	<u> </u>
(21)		(46)	
(22)		(47)	<u> </u>
23}		(48)	
(24)	- 	(49)	
(26)	- 	(50)	

*Supplemental information in the form of lists, skatches, or drawings may be used provided (1) size is SN X 1, (2) information in Items 2 and 3 on this data report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(6/85)-1

This form (E00040) may be obtained from the Order Dept., ASME, 348 E, 47th St., New York, N.Y. 1001



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Form NIS-2 Attachment Sheet 7 of 7 WO 92-60447-04 & -05

FORM N.2 (back)

		FUHRI N.Z.II	DECK		Mir. Serial No. N/A	
	i and a property of the state o	CERTIFICATE OF	DESIGN			
enolisatione engleed	Cartined by	R. Ghosh 👫 🛣	3.24 Sept. 24.	P. E. state_	alif. Reg. no. 16	371
Design report* certifie	and the second of the second o	(when applicable) M. Pattarini		P. E. state	IY Reg. no O	29841
	والمراجع والمعارض المعاور	(when apparation				7
We certify that the stat	CI tsments made in this report a	Service Control	COMPLIANCE	Part		
conform to the rules o	of construction of the ASME	Code, Section III			2-9-89	
Date 6/7/88	Name Target Roc	k Corporation	Signed	arustste.	CASUPERUS	on
	CHUT	Corplicate Holder)	FOR	G. Abruzzo	Q.A. Hanager	<u> </u>
I, the undersigned, hold ince of <u>New York</u>	ding a valid commission issu and employed by	d by the National Boa Commercial Unio	on Insurance	e Company	inspectors and the sta	or pro
of Boston, Mas	5 - have inspected these is and boilef, the Certificate Ho	lems described in this	data report on .	4/1/2	and state th	at to the
Section III. Each part I	isted has been authorized fo	r stamping on the date	e shown above. •			
By signing this certific	cate, neither the inspector no report. Furthermore, neither	or his employer makes the inspector nor his (s any warranty, e employer shall b	e liable in any mi ny vna ni eldali	led, concerning the ex inner for any personal	Injury or
property damage or los	ss of any kind arising from o	connected with this	Installed AC	RK STATE C	COMMISSION NO	2283
Date 6/7/88 s	loned ///////	Mala		S COMPRESSIONE	3 UM Pages, Oble & Co	
	(Autho	nzed Inspector)		(Net'l Bd. Doc	L endorsements) state or pro	
PL ITEM #	PART NAME .	PART NAME		IATERIAL	TENSILE	LOT COL
107	Bolt	204018-1 R		A-193 B7	125,000 HIN	SPS-B
115	Nuc	204041-1 R	ev. B	6A-194 GR 7		0.0-1
			*	*	* * * * * *	, .je,
	M _k			•		

Page __9 __ of __148

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

							···
TENNECC	THE WATTEW AIR	ምሀ ለኮ ፐጥህ	•	n . Decemb	.a. 21	1006	
1. Owner TENNESS	arket St. Name	IHOKITI		Date <u>Decem</u>	ber ZI	, 1994	
	nooga, TN 37	402-2801		Sheetlo	<u> </u>		
2. Plant Browns	Ferry Nuclean	r Plant		Unit 2			
D 0 D 200	*******	AT 25600-	2000	Honk Ondon	0/009	849-00	
P.O. BOX 200	00; Decatur, Address	нь ээссэ-	2000	Work Order Repair Organ	ization 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 200	00; Decatur, Address	AL 35609-	2000	Expiration Date			
4. Identification of Sys		tom 1 Mode	n Stoom		•	* 4:	申
				£		,	
5. (a) Applicable Cons	struction Code ASME	Sec. III 19	68 Edition,	Summer 1970 A	denda,	N/A	_Code Case
	ion of Section XI Uti						
			_				
6. Identification of Co	mponents Repaired o	or Replaced and F	Replacement Con	nponents		4	
	,						ASME Code
			National			Repaired,	Stamped
Name of -	Name of	Manufacturer	Board	Other	Year	Replaced,	(Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
Pilot Cartridge	Target Rock	rail in	na t	as located on	1070		-,,
for Main Steam	Corp.	1014	N/A	2-PCV-1-180	1978	Replaced	Yes
Relief Valve	`` ' 1	ų.					
5						İ	
							<u> </u>
- 2 * 4	Replaced pilot	disc (part	item #55) wi	th one having 0.	3% plat	inum content	and one
7. Description of Work	bolt (part ite	em #112). Th	e MSRV is an	ASME Code Class	1 equi	valent compor	ent.
				N		. 1	
.8. Tests Conducted:	Hydrostatic Pn	eumatic No	ominal Operating	Pressure X	'		
•	Other X Pressure_	N/A pşi	Test Temp	<u>м/н</u> *F		4 .	
NOTE: Supplemen	tal chapte in form of	lists, sketches e	or drawings may	be used, provided (1)	size is 8½	in. x 11 in (2)	informa-
tion in items 1 thr	ough 6 on this repor	t is included on	each sheet, and	(3) each sheet is nun	bered an	d the number of	sheets is

(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

recorded at the top of this form.

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

FORM NIS-2 (Back)

CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Authorization No. 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 ENN. and employed by HERNEDRY. STILL BUR. TNER TIME. CO. of HERNEDRY COMM. have Inspected the components described in this Owner's Report during the period (0-27-94. to 12-30-94. 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 demage or a loss of any kind arising from or connected with this inspection. Commissions No. 9635 TN. H.N.T. National Board, State, Province, and Endorsements	9. Remarks The valve body to which this pilot cartridge was installed on has TVA Applicable Manufacturer's Data Reports to be attached S/N 1014. In addition to performing a system leakage test per 2-SI-3.3.1.A, tests conducted which were performed to meet ASME Sec. XI inservice test requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 2-SI-4.6.D.2. Main Steam Relief Valves Manual Cycle Test.
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Owner or 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 FENN. and employed by HERLEDED SITI. BLR. TINER +TINE. CO. of HERLEDED CONN. have inspected the components described in this Owner's Report during the period (0-37-94). 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. Commissions NO. 9635 Th. H-N-T Inspector's Signature National Board, State, Province, and Endorsements	
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 LENN. and employed by HERIFORD SITE. BLR. TNER + TNS. CO. of HERIFORD CONN. have inspected the components described in this Owner's Report during the period (0-27-94 to 12-30-94, 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. Commissions NO. 9635, N. H-N-I Inspector's Signature Commissions NO. 9635, N. H-N-I National Board, State, Province, and Endorsements	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
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 F.NN. and employed by HRN FORD STITL BLR. TASE + TAS. CO. of HRR FORD CONN. have inspected the components described in this Owner's Report during the period 0-37-94 to 12-30-94, 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. Commissions NO. 9635, TN. H-N-I Inspector's Signature Commissions NO. 9635, TN. H-N-I National Board, State, Province, and Endorsements	Type Code Symbol StampN/A
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENN and employed by HARLFORD SITI, BLR, TNER + TNS, CO, of HARLFORD CONN. have inspected the components described in this Owner's Report during the period 0-37-94 to 13-30-94, 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. Commissions NO. 9635, TN. H-N-T Inspector's Signature Commissions NO. 9635, TN. H-N-T National Board, State, Province, and Endorsements	SIMPLE SYSTEM ENGINEER DOLD DECEMBER 22 1994
Date12-30	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENN. and employed by HARIFORD SITT, BIR, TNFR + TNS, CO. of HARIFORD CONN. have inspected the components described in this Owner's Report during the period (0-37-94 to 13-30-94 , 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. Commissions No. 9635 TN. FINT TO THE NOTE INSPECTOR SIgnature Commissions No. 9635 TN. FINT TO THE NOTE INSPECTOR SIgnature

Page ______ of ______

Page warmithmen

				•			
1. Owner TENNESS	SEE VALLEY AU	THORITY	† 8	Date December	er 21.	1994	
1101 Ma	rket St. Name			•			
	nooga, TN 37	402-2801		Sheeto	f1		
	Address						
2. Plant Browns	Ferry Nuclear	r Plant		Unit2			
P.O. Box 20	000; Decatur,	AL 35609	-2000_	Work Order	94-09	849-01 O. No., Job No.,	etc.
				· · · · · · · · · · · · · · · · · · ·			
3. Work Performed by	TVA	Name		Type Code Symbol S Authorization No	Stamp	N/A	
D 0 Dess 20	Manatum	AT 25600.	-2000	Expiration Date		N/A	
P.O. Box 20	000; Decatur,	AL 33009	-2000	expiration Date		WA.	
4. Identification of Sy	•	em 1, Main	Steam				
			*	1070		37/4	
5. (a) Applicable Cons	struction Code_ASM	E Sec.III ₁₉	68 Edition,	Summer 1970 A	ddenda,	N/A	Code Case
(b) Applicable Edit	ion of Section XI Uti	lized for Repairs	or Replacements	s 19 <u>86</u>			
6. Identification of Co	mponents Repaired o	r Replaced and F	Replacement Cor	mponents		-	
						·	
							4645
							ASME Code
,			A11	1		Repaired,	Stamped
N	Name of	Manufacturer	National Board	Other	Year	Replaced,	(Yes
Name of Component	Name of Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
Component	Mandiactures	001101110,	.,,,	8			
Pilot Cartridge	Target Rock	•		as located on	•		
For Main Steam	Corp.	1026	N/A	2-PCV-1-179	1978	Replaced	Yes
Relief Valve		•				,	
	· ·		·				
							*
	,						
				1			
				<u> </u>			
4	Replaced pilot	t disc (part	item #55) wi	th one having 0.	3% plat	inum content	and one
7. Description of Work	bolt (part ite	en #112). Th	e MSRV is an	ASME Code Class	<u>l equi</u>	valent compon	ent.
8. Tests Conducted:	Hydrostatic Pr	eumatic 🔲 No	ominal Operating	g Pressure\X	7 .	#4 4 5 6	
er 4	Other X Pressure_	N/A_psi	Test Temp	N/A°F			
	,	·					
NOTE: Supplemen	ntal sheets in form of	lists, sketches.	or drawings may	be used, provided (1)	size is 8%	in. x 11 in., (2)	informa-
tion in items 1 thr	ough 6 on this repor	t is included on	each sheet, and	(3) each sheet is num	nbered an	d the number of	sheets is
recorded at the top							

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9. Remarks The valve body to which this pilot cartridge was installed onnhas TVA
Applicable Manufacturer's Data Reports to be attached
S/N 1026. In addition to performing a system leakage test per 2-SI-3.3.1.A,
tests conducted which were performed to meet ASME Sec. XI inservice test
requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 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
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.
ASING Gode, Section At.
Type Code Symbol StampN/A
A
Certificate of Authorization No. N/A Expiration Date N/A
Signed Little John System ENGINEER Date DECEMBER 22, 1994
Owner or 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 TENN. and employed by HERTFORD STITT. BLZ. TNSP. +TNS. CO. of
HERTEORY, CONN. have inspected the components described
in this Owner's Report during the period 10-30-94 to 12-30-94, 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.
BIR. WORKER DAT
Inspector's Signature Commissions NO. 9635, IN. H-N-T. National Board, State, Province, and Endorsements
Hationial Doubly State, Lipsuica, and Europeaneries
- 12 20 Cu
Date

		·						
1.	Owner TENNESS	SEE VALLEY AU	THORITY	•	Date Decemb	er 21,	1994	
	1101 Ma	arket St. Name				-		
	Chattar	nooga, TN 37	402-2801		Sheeto	f1		
	Province	Ferry Nuclea	n Dlant		Unit 2			
2.	PlantBLOWIS	Name	r ranc		Unit2			
	P.O. Box 200	0; Decatur,	AL 35609-	2000	Work Order	94-09	849-02	
		Address			Repair Organ	nization 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 200	00; Decatur, Address	AL 35609-	2000	Expiration Date		N/A	•
4	Identification of Sys	stemSyste	m l, Main_	Steam				
						r		
5.	(a) Applicable Cons	struction Code ASME	E Sec. III 19	68 Edition,	Summer 1970 A	ddenda,	N/A	Code Case
	(b) Applicable Editi	ion of Section XI Uti	lized for Repairs	or Replacements	1986			
_								
6.	Identification of Co	mponents Repaired o	r Replaced and F	Replacement Con	nponents			
Γ		1		<u> </u>				
l				•			·	ASME
				Alexional			Repaired.	Code Stamped
	· Name of	Name of	Manufacturer	National Board	Other	Year	Replaced,	`(Yes
	Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
							ŧ	
 	ilot Cartridge	Target Rock	1	ь.	as located on		4	
	or Main Steam	Corp.	1016	N/A	2-PCV-1-4	1978	Replaced_	Yes
_	elief Valve	,	,	٧				
-		Ĵ						
Γ				1	,			٠ .
L							<u> </u>	
		ŀ					•	
⊩	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					_		
L		Replaced pil	ot disc (n	art item #	55) with one	havin	g.0.3% pla	tinum
7	Description of Work	content. Th	e MSRV is	an ASME Co	de Class 1 e	quival	ent compone	ent.
٠.	Description of Horn	·				•		
8.	Tests Conducted:	Hydrostatic Pr	eumatic 🔲 No	ominal Operating	Pressure X		·	
		Other X Pressure_	N/A psi	Test Temp	<u>N/A</u> °F		ч	
		-						
	NOTE: Supplemen	ital sheets in form of	lists, sketches,	or drawings may	be used, provided (1)	size is 8%	in. x 11 in., (2) i	informa-
	tion in items 1 three recorded at the top	ough 6 on this repor	t is included on	each sneet, and	o each sheet is nur	innered au	a the namber of	
	the tob	J. 11114 1011111						

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

Page 14 of 148

9.	Remarks The valve body to which this pilot cartridge was installed on has TVA Applicable Manufacturer's Data Reports to be attached S/N 1016. In addition to performing a system leakage test per 2-SI-3.3.1.A, tests conducted which were performed to meet ASME Sec. XI inservice test requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 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 replacement conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp: N/A
ja r	Certificate of Authorization No. N/A Expiration Date N/A Signed Hillip J. System FAIGINEER Date DECEMBER 22, 1994 Owger or Owner's Designee, Title
	CERTIFICATE OF INISERVICE INISPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	Date 12-30 1994

Page __15__ of __148__

						 		
TENNEC C	PEE WATTEV AU	TU∩D TTV		- Decemb	har 21	, 1994	•	
1. Owner TENNESS	rket St. Name	INUKILI		Date Decem	Der Zi	, 1994		
	looga, TN 37	/n2-2801		Sheet 1 o	. 1			
Glactai	Address	402-2001		Sheeto	·			
2. Plant Browns	Forry Nuclea	r Plant		Unit 2				
2. Plant DLOWIS	Name	LLAME		Unit				
P.O. Box 200	0; Decatur,	AT. 35609-	2000	Work Order 94-09849-03				
1.0. DOX 200	Address	0000				O. No., Job No.,	etc.	
3. Work Performed by	TVA			Type Code Symbol Stamp N/A				
3. Work renomined by		Name		Authorization No	J. (3111)	N/A		
P.O. Box 200	P.O. Box 2000; Decatur, AL 35609-2000					N/A		
4 4	P.O. Box 2000; Decatur, AL 35609-2000 Address					jı 3	•	
4. Identification of Sy	stemSystem	em 1, Main	Steam					
•			*			37/1		
5. (a) Applicable Cons	struction Code ASME	Sec. III ₁₉	68 Edition, 8	Summer 1970 A	ddenda,	N/A	_Code Case	
(b) Applicable Edit	ion of Section XI Util	ized for Repairs	or Replacements	19 <u>86</u>				
	,							
6. Identification of Co	mponents Repaired o	r Replaced and F	Replacement Con	ponents		n.		
	1				i	1	<u> </u>	
,		*				'	ASME	
							Code	
			National			Repaired,	Stamped	
Name of	Name of	Manufacturer	Board	Other	Year	Replaced,	(Yes	
* Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)	
						l		
Pilot Cartridge	Target Rock	. !		as located on				
for Main Steam	Corp.	1021	N/A	2-PCV-1-5	1978	Replaced	Yes	
Relief Valve		1021	i	,		1.02.000		
Merier varve	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*	. '	4				
				,				
						<u> </u>		
,								
A								
	Replaced pil	ot disc (r	part item	55) with one	havir	ng 0.3% pla	tinum	
7. Description of World		ne MSRV is	an ASME Co	ode Class 1 e	quival	lent compon	ent.	
7. Description of Hora				· · · · · · · · · · · · · · · · · · ·				
8. Tests Conducted:	Hydrostatic Pn	eumatic No	ominal Operating	Pressure X		. •		
o. Tests Conducted.	Other X Pressure_	N/A psi	Test Temp.	N/A °F	-			
	· · · · · · · · · · · · · · · · · · ·	P31	, , , , , , , , , , , , , , , , , , ,					
NOTE: Cumicano	ntal sheets in form of	liete ekatohae e	or drawings may	be used, provided (1)	size is 8%	in. x 11 in (2)	informa-	
tion in items 1 thr	ough 6 on this repor	t is included on	each sheet, and	(3) each sheet is nur	nbered an	d the number of	sheets is	

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recorded at the top of this form.

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

9.	Remarks The valve body to which this pilot cartridge was installed on has TVA Applicable Manufacturer's Data Reports to be attached S/N 1021. In addition to performing a system leakage test per 2-SI-3.3.1.A, tests conducted which were performed to meet ASME Sec. XI inservice test requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 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 replacement 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 Hills System FAIGINEER Date DECEMBER 22 , 19 94 Owner or Owner & Designee, Title
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENN, and employed by HFBU-DO SIME RLR. TASP & TAS. CO. of HFRTFORD CONN. have inspected the components described in this Owner's Report during the period 10-30-94 to 10-30-94, 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. Commissions NO. 9635, IN. FI-N-T, National Board, State, Province, and Endorsements
	Date 12-30 19-94

Page __17__ of __148__

Day of

1. Owner TENNESS	EFF VALIEV AU	ጥዘ ብ ጽ ፐጥ۷	•	Date Decemb	or 21	1994	
1. Owner 1101 Ma	rket St. Name	IIIORIII		Date Decemb	<u> </u>	1004	4
	nooga, TN 37	402-2801		Sheeto	, 1		•
	Address		·····	0.10010			
2, Plant Browns	Ferry Nuclea	r Plant		Unit 2			,
	Name						
P.O. Box 200	0; Decatur,	AL 35609-	2000	Work Orde			
	Address			· -		O. No., Job No.,	etc.
3. Work Performed by	TVA	Name		Type Code Symbol		** / *	
D 0 Page 200			2000	Authorization No			
P.O. BOX 200	00; Decatur, Address	AL 33009-	2000	Expiration Date		N/A	
4. Identification of Sys	Syst	em 1. Main	Steam		•	,	
5. (a) Applicable Cons	struction Code ASME	E Sec. III 19	68_Edition	Summer 1970 A	ddenda	N/A	Code Case
(b) Applicable Editi	ion of Section XI Uti	lized for Repairs	or Replacements	19.86	•		
, , , , , , , , , , , , , , , , , , , ,		-	-				
6. Identification of Co	mponents Repaired o	r Replaced and F	Replacement Com	ponents		1	
	·	, 		T		· · · · · · · · · · · · · · · · · · ·	
				,			ASME
						•	Code
*		ŧ	National	*	·	Repaired,	Stamped
Name of	Name of	Manufacturer	Board	Other	Year	Replaced,	(Yes or No)
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	01 1107
	i		i i	,		:	
Pilot Cartridge	Target Rock	** *** *******************************	· , ,, +53;	as located on	••	, 4 "" ⁴	
for Main Steam	Corp.	1079	N/A	2-PCV-1-18	.1978	Replaced	Yes
Relief Valve	E W . 4	,				°n €	
	2		· · · · · · · · · · · · · · · · · · ·				
			۸ .	ė r	¥	Ye 4	
					<u> </u>		 ,
	, v					*	•
			•				\vdash
	Replaced pil	ot disc \(r	ert item i	(55) with one	havin	g 0.3% pla	tinum
7. Description of Work	content. Th	ne MSRV is	an ASME Co	ode Class 1 e	ouival	lent compon	ent.
7. Description of Work	<u>concener z.</u>	.0					
8. Tests Conducted:	Hydrostatic Pr	eumatic 🗍 No	ominal Operating	Pressure X	N.	* 1	
1	Other X Pressure_	N/A_psi	Test Temp	<u>N/A^{'_}</u> °f .			
			-				
NOTE: Supplemen	ital sheets in form of	lists, sketches,	or drawings may	be used, provided (1)	size is 8%	in. x 11 in., (2)	informa-
tion in items 1 thre	ough 6 on this repor	t is included on	each sheet, and	(3) each sheet is nur	nbered an	d the number of	sheets is
recorded at the top	of this form.						

Page ____18__ of ___148__

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

(12/82)

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9.	Remarks The valve body to which this pilot cartridge was installed on has TVA
	Applicable Manufacturer's Data Reports to be attached
	S/N 1033. In addition to performing a system leakage test per 2-SI-3.3.1.A,
	tests conducted which were performed to meet ASME Sec. XI inservice test
	requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 2-SI-4.6.D.2,
	Main Steam Relief Valves Manual Cycle Test.
	,
Γ	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol StampN/A
	,
٠	Certificate of Authorization No. N/A Expiration Date N/A
	Signed William System ENGINEER Date DECEMBER 22 , 1994
	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 TENN. and employed by HARTFORD SITTL BLR. TASP. 4-TAS. Co. of
	HERIFORM, CONN. have inspected the components described
	in this Owner's Report during the period 10-30-94 to 12-30-94, 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,
	6. +. D = 2 2 NO. 9635 TN. F-N-T.
	Inspector's Signature Commissions ND. 9635, TN. H-N-T. National Board, State, Province, and Endorsements
	Date
	19-17-

			•	_			
1. Owner TENNESS	<u>SEE VALLEY AU</u> arket St. ^{Name}	THORITY		Date <u>Decem</u>	ber 21	, 1994	
	nooga, TN 37	402-2801		Sheeto	f1_		<u>.</u>
2. Plant Browns	Ferry Nuclea	r Plant		Unit2			
P.O. Box 200	00; Decatur,	AL 35609-	2000	Work Orde Repair Organ	r 94-0 nization P.	9849-05 O. No., Job No.,	etc.
3. Work Performed by	3. Work Performed by TVA				Stamp	N/A	
B O Poy 200	0; Decatur,	Name AT 35600-	2000	Authorization No Expiration Date		· N/A	
F.O. BOX 200	Address	4L 33003	2000	expiration Date			
4. Identification of Sys	stemSys	tem l, Mai	n Steam				
5. (a) Applicable Cons(b) Applicable Edit6. Identification of Co	ion of Section XI Util	lized for Repairs	or Replacements	19 <u>86</u>	ddenda,	N/A	Code Case
							ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	Code Stamped (Yes or No)
Pilot Cartridge.	Target Rock	. *		as located on	•.	и .	
for Main Steam	Corp.	1022	N/A	2-PCV-1-19		Replaced	Yes
Relief Valve	,	•	•				
			- ,	. 4			
<u> </u>			-	· · · · · · · · · · · · · · · · · · ·		<u> </u>	<u> </u>
, 4 ,				п			
	Replaced pi	lot disc (part item	/ #55) with on	l <u> </u>	ng 0.3% pla	atinum
7. Description of Work	content. T	he MSRV is	an ASME C	ode Class l	equiva	lent compo	nent.
8. Tests Conducted:	Hydrostatic Pn Other Pressure	eumatic N	ominal Operating	Pressure X			
NOTE: Supplemention in items 1 throrecorded at the top	tal sheets in form of ough 6 on this report of this form.	lists, sketches, of the state o	or drawings may t each sheet, and (be used, provided (1) 3) each sheet is nur) size is 8½ nbered and	in. × 11 in., (2) i d the number of	informa- sheets is

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

9.	Remarks The valve body to which this pilot cartridge was installed on has TVA
	Applicable Manufacturer's Data Reports to be attached
	S/N 1022. In addition to performing a system leakage test per 2-SI-3.3.1.A,
•	tests conducted which were performed to meet ASME Sec. XI inservice test
	requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 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 replacement conforms to the rules of the
	ASME_Code, Section XI. repair or replacement
ĺ	
	Type Code Symbol StampN/A
	,
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed William System ENGINEER Date DECEMBER 22, 1994
	Owner or Ovener'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 TENN. and employed by HARIFOLD STITT. BLR. TNSP. & TNS. CO. of
	HARIFORD, CONN. have inspected the components described
	in this Owner's Report during the period 6-30-94 to 12-30-94, 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,
	5.7 K. NO BL35 III DATE
	Commissions ND. 9635, IN. H-N-T National Board, State, Province, and Endorsements
	· · · · · · · · · · · · · · · · · · ·
	42 30 01 1
	Date 12-30 1994
	i '

	As Nequi	red by the rick	Visions or the A	OINE GOOD GOOTION			
1. Owner_TENNESS	SEE VALLEY AU	THORITY	•	Date Decemb	er 22,	1994	
1101 Ma	rket St. Name		1	•			
Chattan	ooga, TN 37	402-2801	1	Sheet o	f1		<u> </u>
2. Plant Browns	Ferry Nuclea:	r Plant	<u>_</u>	Unit 2			ч
P.O. Box 200	P.O. Box 2000; Decatur, AL 35609-2000			Work Orde	r 94-0	9849-06	
	Address		•	Repair Organ	nization P.	O. No., Job No.,	etc.
3. Work Performed by	TVA	Name		Type Code Symbol	Stamp	N/A N/A	•
P.O. Box 200	0; Decatur,		2000	Authorization No Expiration Date	Ŋ		· · ·
1.0. DOX 200	Address	NB 33003	2000	expiration Date			
4. Identification of Sys	stem Sys	tem 1, Mai	n Steam			·	
5. (a) Applicable Cons(b) Applicable Editi6. Identification of Constant	on of Section XI Util	lized for Repairs	or Replacements	1986	ddende,	N/A	_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)
Pilot Cartridge :	Target Rock:	1 120 171		as located on	£1 (1)		= ,,
for Main Steam	Corp.	1076	N/A	2-PCV-1-22	.19.78	Replaced	Yes
Relief Valve		· **;	* 1s	`•			
							•
,		e ' f.			,	4 1	
	<u> </u>		<u> </u>	<u> -</u>	l		
7. Description of Work				#55) with one ode Class 1			
8. Tests Conducted:	Hydrostatic Pn Other X, Pressure		ominal Operating . Test Temp.		*	* * * * * * * * * * * * * * * * * * *	·
NOTE: Supplemen tion in items 1 thro recorded at the top	tal sheets in form of ough 6 on this report of this form.	lists, sketches, of is included on	or drawings may t each sheet, and (be used, provided (1) 3) each sheet is nur	size is 8% nbered and	in. x 11 in., (2) id the number of	informa- sheets is

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

9.	Remarks The valve body to which this pilot cartridge was installed on has TVA
	Applicable Manufacturer's Data Reports to be attached
	S/N 1070. In addition to performing a system leakage test per 2-SI-3.3.1.A,
	tests conducted which were performed to meet ASME Sec. XI inservice test
	requirments include O-SI-4.6.D.1, Bench Test Relief Valves, and 2-SI-4.6.D.2,
	Main Steam Relief Valves Manual Cycle Test.
	·
_	·
ĺ	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 Hillip Tilbert System ENGINEER Date DECEMBER 22 , 1994
	Owner or 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 IENN. and employed by HERIFORD SITTI. BIR. TNSP. 4-TNS. CO. of
	HARIFORD CONN. have inspected the components described
	in this Owner's Report during the period $6-30-94$ to $12-30-94$, 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.
	Commissions NO. 9635, TN. H-N-T.
	Inspector's Signature National Board, State, Province, and Endorsements
	· *
	$\frac{12-30}{19.94}$

	As ricqui	ted by the free	71310113 01 1110 7				
	rket St. Name			Date Decemb			
	ooga, TN 37 Address					•	
2. Plant Browns	Ferry Nuclea	r Plant		Unit2	.		
P.O. Box 200				Work Orde	r 94=0		
3. Work Performed by	TVA			Type Code Symbol	Stamp	N/A	
				Authorization No		_N/A	
P.O. Box 200	0; Decatur, Address	AL 35609-	2000	Expiration Date	N	/A	
4. Identification of Sys		•					_
٠	a.		*	1			
5. (a) Applicable Cons (b) Applicable Editi	truction Code <u>ASM</u> on of Section XI Uti				ddenda,	<u> </u>	_Code Case
6. Identification of Cor	nponents Repaired o	or Replaced and F	Replacement Con	nponents			a.
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)
Pilot Cartridge	Target, Rock			as located on	.		
for Main Steam	Corp.	1069	N/A	2-PCV-1-23	1978	Replaced	Yes
Relief Valve	•		, *				
	•	, ,			,		
					<u> </u>		-
	,					, a	,
	<u> </u>						
			<u> </u>	<u> > </u>	<u> </u>	0.000	
7. Description of Work	Replace pil	ot disc (p	art item #	55) with one	havin	g 0.3% pla	tinum nent
7. Description of Work	content. 1	HE HORV 18	all ASME C	ode crass_r_	equiva.	reire compo	iiciic.
8. Tests Conducted:	Hydrostatic Prother X Pressure_	neumatic No N/A psi	ominal Operating Test Temp	Pressure X N/A °F	.		
NOTE: Supplemention in items 1 thronger recorded at the top	ough 6 on this repor	f lists, sketches, o t is included on	or drawings may each sheet, and	be used, provided (1) (3) each sheet is nur	size is 8½ nbered and	in. x 11 in., (2) d the number of	informa- sheets is
(12/82) This form	(E00030) may be obta	Ined from the Ord	er Dept., ASME, 2	2 Law Drive, Box 2300	, Fairfield, i	NJ 07007-2300. R	EPRINT 4/93
*and as amende	d by additio 1 Electric P	nal qualit urchase Or	y assuranc der No. 20	e and design 55AJ600	requi	rements co	ņtained

Page 24 of 148

9.	Remarks The valve body to which this pilot cartridge was installed on has TVA
	Applicable Manufacturer's Data Reports to be attached
	S/N 1031. In addition to performing a system leakage test per 2-SI-3.3.1.A,
	tests conducted which were performed to meet ASME Sec. XI inservice test
	requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 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 replacement 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 Hollo L. SUBERT, SYSTEM ENGINEER Date DECEMBER 22, 1994
	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 TENN. and employed by HERIFORD SITTL BUR. TASP. of TNS. CO. of
	HERIFORD CONN. have inspected the components described in this Owner's Report during the period (0-30-94 to 12-30-94, 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.
	Inspector's Signature Commissions NO. 9635, TN, H-N-T National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
	42 22
	Date 12-30 19-94
	•

		•				··········	•
1. Owner <u>TENNESS</u>	SEE VALLEY AU	THORITY	•	Date December	er 22,	1994	
	ooga, TN 37	402-2801		Sheet of	11		
2. Plant Browns		r Plant	 	Unit 2			· · · · · · · · · · · · · · · · · · ·
P.O. Box 200	00; Decatur,	AL 35609-	2000	Work Orde	r 94-0 lization P.	9849-08 O. No., Job No.,	etc.
3. Work Performed by	TVA	Name		Type Code Symbol S Authorization No	Stamp	N/A	
P.O. Box 200	P.O. Box 2000; Decatur, AL 35609-2000 Address					N/A N/A	
4. Identification of Sys	tem <u>Main</u>	Steam, Sy	stem 1				
5. (a) Applicable Cons(b) Applicable Editi6. Identification of Cons	on of Section XI Uti	lized for Repairs	or Replacements	19 <u>.86</u>	ddenda,	N/A	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)
Pilot Cartridge	Target Rock	1028	`\'. N/A	as located on	1978	Replaced	Yes
for Main Steam Relief Valve	Corp.	1020	* 9	2-PCV-1-30	2010,		
		1					,
, , , , , , , , , , , , , , , , , , ,							
		b	, gr].			
7. Description of Work	Replaced pi	lot disc (he MSRV is	part item	#55) with on Code_Class_l_	e havi equiva	ng 0.3% pl lent compo	atinum nent.
8. Tests Conducted:	Hydrostatic Procesure		ominal Operating Test Temp			* 4,	
NOTE: Supplemention in items 1 throrecorded at the top	ough 6 on this repor	lists, sketches, of its included on	or drawings may each sheet, and	be used, provided (1) (3) each sheet is nun	size is 8½ nbered and	in. × 11 in., (2) id the number of	informa- sheets is

* and as amended by additional quality assurance and design requirements contained within General Electric Purchase Order No. 205-AJ600
Page 26 of 148

(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

9, Rei	marks The valve body to which this pilot cartridge was installed on has TVA
	Applicable Manufacturer's Data Reports to be attached
S	/N 1028. In addition to performing a system leakage test per 2-SI-3.3.1.A,
	ests conducted which were performed to meet ASME Sec. XI inservice test
	equirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 2-SI-4.6.D.2,
	ain Steam Relief Valves Manual Cycle Test.
• • • • • • • • • • • • • • • • • • • •	ain bleam Reffer valves handar bycre rest.
_	
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
AS	ME Code, Section XI. repair or replacement
	· ·
Typ	pe Code Symbol StampN/A
•	•
Cer	tificate of Authorization No. N/A Expiration Date N/A
00,	CADITION DOLD
Ci-	ned Little J. SYSTEM ENGINEER Date DECEMBER 22, 1994
Siĝi	ned Country Designee, Title Owner or Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
	he undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or h	Province of TENN and employed by HARIFORD STITE RUR. THER 4-TASI CO. of
	HARIFORD, CONN have inspected the components described
in t	this Owner's Report during the period 6-30-94 to 12-30-94, and state that
to t	the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Ow	ner's Report in accordance with the requirements of the ASME Code, Section XI.
1	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
	minations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
	If be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
, insp	pection.
	that IT . 1
_	Inspector's Signature Commissions ND 9635, TN A H - N-T, National Board, State, Province, and Endorsements
	Mational Board, State, Province, and Endorsements
Date	0 <u>1d-50 1994</u>
	•

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

	As Hequi	rea by the Prov	Asions of the A	21AIE CODA 26CLIOI	1 VI	·			
1. Owner TENNESS	SEE VALLEY AU	THORITY	h	Date Decemb	er 22,	1994			
	arket St. Name	402-2201		Sheet1o	. 1				
- Chattai	nooga, TN 37	402-2001		Sheeto	f	· · · · · ·			
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2					
P.O. Box 200	0; Decatur,	AL 35609-	2000	Work Order 94-09849-09					
	Address			·		O. No., Job No.,	etc.		
3. Work Performed by	TVA	Name		Type Code Symbol : Authorization No.	Stamp	N/A	 .		
P.O. Box 200	P.O. Box 2000; Decatur, AL 35609-2000			Authorization No Expiration Date		N/A N/A			
4. Identification of Sys	,,	om 1 Main	Steam						
5. (a) Applicable Cons(b) Applicable Edition6. Identification of Cons	ion of Section XI Uti	lized for Repairs	or Replacements	19 <u>86</u>	ddenda,	N/A	.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)		
Pilot Cartridge	Target Rock) b	1	as located on					
for Main Steam	Corp.	1020	N/A	2-PCV-1-31	1978	Replaced_	Yes		
Relief Valve		•	,						
			ı	3					
						/			
	•								
7. Description of Work				#55) with on dode Class 1					
8. Tests Conducted:	Hydrostatic Processure_		ominal Operating Test Temp			•			
NOTE: Supplemention in items 1 throrecorded at the top	ital sheets in form of ough 6 on this repor of this form.	f lists, sketches, o t is included on	or drawings may leach sheet, and (be used, provided (1) (3) each sheet is nur) size is 8½ nbered an	in.×11 in., (2) i d the number of	informa- sheets is		

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

Page 28 of 148

(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

9.	Remarks The valve body to which this pilot cartridge was installed on has TVA
	Applicable Manufacturer's Data Reports to be attached
	S/N 1020. In addition to performing a system leakage test per 2-SI-3.3.1.A,
	tests conducted which were performed to meet ASME Sec. XI inservice test
	requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 2-SI-4.6.D.2,
	Main Steam Relief Valves Manual Cycle Test.
	,
Γ	CERTIFICATE OF COMPLIANCE
	renlacement
	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.
	ASIVIE Code, Section At.
	Type Code Symbol StampN/A
	Type Code Symbol StampN/A
	N/A
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Willest System ENGINEER Date DECEMBER 22, 1994
	Signed ANGINEER Date A JECENBER Co., 19 74 Owner's Designee, Title
Ļ	
_	
	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 LENN. and employed by HARIFORD SITTI, BLR. TNSP. OFTNS. CO. of
	HETRIFORD CONN. have inspected the components described
	in this Owner's Report during the period 6-30-94 to 12-30-94, 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,
	Commissions ND. 9135 TN. FI-NET Inspector's Signature National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
	Date 12-30 19 9 4
	· · · · · · · · · · · · · · · · · · ·

mpalatre	er wattev au	かいし てかく	•	- Dogomi	har 22	, 1994	
1. Owner TENNESS	arket St. Name	INOKIII		Date Decemi	JEL ZZ	, 1994	
	nooga, TN 37	402 - 2801	~	Sheet 1 of	. 1		
Chactai	Address	402-2001		Sheeto			
2. Plant Browns	Forry Nuclea	r Plant		Unit 2			
2. PlantDrowns	Name	L Flanc		Unit 2	, .		
P.O. Box 200	M. Decatur	AT. 35609-	2000	Work Order	- 94 - 0	9849-10	
F.O. DOX 200	Address	AB 33003	2000			O. No., Job No.,	etc.
O Minds Deafares address	ጥህል			Type Code Symbol S	Stamp	N/A	
3. Work Performed by	Work Performed by TVA Name				P	N/A	
P 0 Box 200	P.O. Box 2000; Decatur, AL 35609-2000					N/A	
1.0. DON 200	Address			Expiration Date			
4. Identification of Sys	stom Svs	tem 1. Mai	n Steam			1	
						•	
5. (a) Applicable Cons	eruction Code ASME	E'Sec. III 19	68 Edition.	Summer 1970Ad	ddenda.	N/A	Code Case
b. (a) Applicable Coll.	ion of Section XI Uti	lized for Repairs	or Replacements	1986	<i>,</i>		
(b) Applicable cult	ion or section XI ou	ilea ioi ilepans					
6. Identification of Co	mnonents Renaired o	r Renlaced and F	Replacement Com	nponents			
o. Identification of Co	mponents repaired e	11000000 0112 1					
							ASME
	,						Code
			National	0.5	V	Repaired, Replaced,	Stamped (Yes
Name of	Name of	Manufacturer Serial No.	Board No.	Other Identification	Year Built	or Replacement	1
Component	Manufacturer	Serial No.	, ivo.	Identification	Duit		
j							
Pilot Cartridge	Target Rock	a. In		as located on		7 ·	
for Main Steam	Corp.	1033	N/A	2-PCV-1-34	1978	Replaced	Yes
Relief Valve				3			
MCLICI VALVE				*			
						,	
			-				
'	,		,				1
							, .
				•			
	Replaced pi	lot disc.(part item	#55) with one	e havi	ng 0.3% pla	atinum
7. Description of Work	content. T	he MSRV is	an ASME C	ode Class 1	eguiva	lent compor	nent.
7. Description of Hore	Concence. 2						-
8. Tests Conducted:	Hydrostatic Pr	eumatic No	ominal Operating	Pressure [X]			
b. Tests Conducted.	Other X Pressure_		Test Temp				
	Other [K] Tressure_		103t 10mp	*			
MOTEL Complemen	tal sheets in form of	liese ekatchae	or drawings may	he used provided (1)	size is 8%	in. x 11 in (2)	Informa-
NOTE: Supplement	ough 6 on this repor	t is included on	each sheet, and	(3) each sheet is nun	nbered an	d the number of	sheets is
recorded at the top			· - - · ·				

Page 30 of 148

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

(12/82)

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9,	Remarks The valve body to which this pilot cartridge was installed on has TVA Applicable Manufacturer's Data Reports to be attached
	S/N 1063. In addition to performing a system leakage test per 2-SI-3.3.1.A,
	tests conducted which were performed to meet ASME Sec. XI inservice test
	requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 2-SI-4.6.D.2,
	Main Steam Relief Valves Manual Cycle Test.
	•
Г	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.
e	
	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Willis & Nilbert, SYSTEM ENGINEER Date DECEMBER 22, 1994
	Signed William Date KECEMBER Co., 19 77 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 TENN. and employed by HARIFORD SITH. BLR. TNSP. 4-TNS. 40 of
	HERIFOOD CONN: have inspected the components described
	in this Owner's Report during the period 6-30-94 to 12-30-94, 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.
	B.J. K. Commissions NO. 9635 IN. A-N-T. Inspector's Signature National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
	40.00
	Date
_	· :

1. Owner TENNESS	SEE VALLEY AU	THORITY	·	Date Decem	ber 22	, 1994		
		402-2801		Sheetlo	f 1			
	nooga, TN 37 Address		· · · · · ·	0	•			
2. Plant Browns	Ferry Nuclea	r Plant		Unit2				
P.O. Box 200	0; Decatur,	AL 35609-	2000	Work Order	r 94-0	9849-11		
2101 2011 200	Address					O. No., Job No.,	etc.	
3. Work Performed by	TVA			Type Code Symbol	Stamp	N/A		
•,		Name		Authorization No. N/A				
P.O. Box 200	0; Decatur,	AL 35609-	2000	Expiration Date	N	/A		
	Address			•				
4. Identification of Sys	stemSys	<u>tem 1, Mai</u>	n Steam					
5. (a) Applicable Cons (b) Applicable Editi 6. Identification of Cons	ion of Section XI Uti	lized for Repairs	or Replacements	19 <u>86</u>	ddenda,	N/A	_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)	
Pilot Cartridge	.Target Rock	e i	e 1.	as located on	- 11 × • 2	s ! s -4		
for Main Steam	Corp.	1015	N/A	2-PCV-1-41	1978	Replaced	Yes_	
Relief Valve	A STATE OF THE STA	* % • j	(,	,			
			·	•	4		:	
	-					,		
,].				
1 .	Replaced pi	lot disc (part item	#55) with one	e. havi	ng 0.3% pla	atinum	
7. Description of Work	content. T	he MSRV is	an ASME C	ode Class 1	equiva:	lent compo	nent.	
	Hydrostatic Processure		ominal Operating Test Temp	—		, ``.		
NOTE: Supplemention in items 1 throrecorded at the top	tal sheets in form of ough 6 on this repor of this form.	lists, sketches, of its included on	or drawings may beach sheet, and b	be used, provided (1) (3) each sheet is nun	size is 8½ nbered and	in. × 11 in., (2) id the number of	informa- sheets is	

Page 32 of 148

and as amended by additioanl quality assurance and design requirements contained

within General Electric Purchase Order No. 205-AJ600

(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

9.	Remarks The valve body to which this pilot cartridge was installed on has TVA
	Applicable Manufacturer's Data Reports to be attached
	S/N 1015. In addition to performing a system leakage test per 2-SI-3.3.1.A,
	tests conducted which were performed to meet ASME Sec. XI inservice test
	requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 2-SI-4.6.D.2,
	Main Steam Relief Valves Manual Cycle Test.
	That occan house furtor named by one root
Г	
ĺ	CERTIFICATE OF COMPLIANCE We replacement replacement replacement
ĺ	ve certify that the statements made in the report are correct and this
	ASME Code, Section XI.
	·
ĺ	N / A
	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Holland System ENGINEER Date DECEMBER 22, 1994
	Owner or 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 TENN. and employed by HARTFORD, STM, RIR, TAISP, STAIS, CO. of
	HERIFORD, CONN. have inspected the components described
	in this Owner's Report during the period 6-30-94 to 13-30-94, 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,
	Inspector's Signature Commissions NO. 9635, TN . H-N=T National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
	$p_{\text{Date}} = \frac{12-30}{19} \frac{94}{4}$
	· · · · · · · · · · · · · · · · · · ·

				Dagamh	22	1004			
1. Owner TENNESS	arket St. Name	THURITY		Date December	er 22,	1994			
	nooga, TN 37	402-2801		Sheet o	. 1		<i>i</i>		
<u> </u>	Address	102 2001		SneetO					
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2					
	Name								
P.O. Box 200	00; Decatur,	AL 35609-	2000	Work Order 94-09849-12 Repair Organization P.O. No., Job No., etc.					
	• • • • • • • • • • • • • • • • • • • •					37/4	• • • • • • • • • • • • • • • • • • • •		
3. Work Performed by	LVA	Name		Type Code Symbol S Authorization No		N/A			
P.O. Box 200	P.O. Box 2000; Decatur, AL 35609-2000					N/A			
M-21 16	Address								
4. Identification of Sys									
5. (a) Applicable Cons(b) Applicable Edit6. Identification of Co	ion of Section XI Uti	lized for Repairs	or Replacements	19 <u>86 -</u>	ddenda,	N/A	Code Case		
	•	-							
			,				ASME Code		
			National			, Repaired,	Stamped		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Replaced, or Replacement	(Yes or No)		
Component	indianoctoro.	`							
				1		 			
Pilot: Cartridge for Main Steam	Target Rock	1032	n/A	as located on 2-PCV-1-42	1978	Replaced	Yes		
Relief Valve	COLD.			2 2 3 7 2 3 7 2	,		,		
			• •						
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	Ł	^ ~	,						
				<u> -</u>					
	Replaced pi	lot disc (part item	#55) with on	e havi	ng 0.3% pl	atinum		
7. Description of Work	content. 1	he MSRV is	an ASME C	ode Class I	equiva	Tent compo	nent.		
8. Tests Conducted:	Hydrostatic Pr	eumatic No	ominal Operating	Pressure 🔽	•				
, ,	Other X Pressure_	N/A psi	Test Temp	N/A_°F		t.	* *		
NOTE: Supplemention in items 1 three	tal sheets in form of	lists, sketches, o	or drawings may	be used, provided (1)	size is 8%	in. x 11 in., (2)	informa-		
	auch G an chic rance	t ie included on	each sheet and l	(3) each sheet is nun	nbered an	d the number of	sheets is		

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

9.	Remarks The valve body to which this pilot cartridge was installed on has TVA Applicable Manufacturer's Data Reports to be attached S/N 1084. In addition to performing a system leakage test per 2-SI-3.3.1.A, tests conducted which were performed to meet ASME Sec. XI inservice test requirements include 0-SI-4.6.D.1, Bench Test Relief Valves, and 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 replacement conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp N/A .
	Certificate of Authorization No. N/A Expiration Date N/A Signed Hills System FNGINEER Date DECEMBER 22 , 19 94 Owder or 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 IENN, and employed by HERIFORD SITT. BYR. TNSP. 4TNS CO. of HERIFORD, CONN. have inspected the components described in this Owner's Report during the period 0-30-94 to 12-30-94, 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. By J. R. Commissions No. 9635 N. H. N. L.
	Date 12-30 1994

1. Owner TENNES	SEE VALLEY A	UTHORITY	4	Date December	er 9,	1994	
1101 market St. Name							
. <u>Chatta</u>	Chattanooga, TN 37402-2801 Sheet 1 of 1						
2. Plant Browns	Ferry Nucle	ar Plant	-	Unit2			
P.O. Box 200	0; Decatur,	AL 35609-2	2000	Work Order Repair Organ	94-15 nization P	972-01 .O. No., Job No.,	etc.
3. Work Performed by	TVA	Name		Type Code Symbol	Stamp	N A N A	
P.O. Box 200	0; Decatur, Address	AL 35609-2	2000	Authorization No Expiration Date		A	
4. Identification of Sys	stemSystem	1, Main St	:eam	>			
5. (a) Applicable Cons	struction Code <u>USA</u> Ion of Section XI Ut	S B31.1.0 ₁₉	67 Edition,	N/A A	ddenda,_	N/A	_Code Case
(b) Applicable Edit	ion of Section XI Of	ilized for Nepalis	or neplacements	19,002			
6. Identification of Co	mponents Repaired	or Replaced and F	Replacement Con	nponents	-		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam	Atwood and	(unable to		2-FCV-001			
Line D Outboard	Morill Co.,	determine)	N/A	-0052	N/A	Replaced	No
Isolation Valve	Inc.						
					<u> </u>	 	
1							
	-			,			
			3 4	. 	1 00	2 501 001 (7053
7. Description of Work	Replaced st (which is a	em assembly n ASME Code	e Class l	studs and nu equivalent c	ompone	nt)	
8. Tests Conducted:	Hydrostatic Pother Ressure	neumatic No	ominal Operating Test Temp.	Pressure X N/A °F			
NOTE: Supplemention in items 1 throrecorded at the top	ough 6 on this repo	of lists, sketches, or tris included on	or drawings may each sheet, and	be used, provided (1 (3) each sheet is nur) size is 8½ mbered an	in, x 11 in., (2) id the number of	informa- sheets is
(12/82) This form	(E00030) may be obta	ained from the Ord	er Dept., ASME, 2	2 Law Drive, Box 2300), Fairfield,	NJ 07007-2300. RI	EPRINT 4/93
* as amended by within contra		. . .			uireme	nts contái	ned
ATCHTH COHCEC	.00 00001 007		36 of _	-			
4.		, u ₅ 0.					

9.	Applicable Manufacturer's Data Reports to be attached which were performed to meet ASME inservice test requirements include 2-SI- 3.2.12, Verification of Fail-Safe Position for MSIVS; 2-SI-4.7.D.l.a-3, Main Steam Isolation Valves Closure Time: Test; and 2-SI-4.7.A.2.i-3/ld2, Primary Containment Local Leak Rate Test Main Steam Line D Outboard: Penetration X-7D.
	CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol StampN/A Certificate of Authorization NoN/A
	Signed Allis System ENGINEER Date DECEMBER 9 1994
	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 TENINESSEE and employed by Hartford Steam Boiler Insectors and the State or Province of TENINESSEE and employed by Hartford Steam Boiler Insectors and the State of Hartford, Conin have inspected the components described in this Owner's Report during the period 10-18-74 to 1-10-94, 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. Commissions NB 1905 TW 3 178 National Board, State, Province, and Endorsements
	Date

			 				
1. Owner TENNESS	SEE VALLEY AU	THORITY		Date May 3	1994	•	
1101 Ma	rket St. Name			Date			
Chattan	nooga, TN 37	402-2801		Sheet1c	of 3		
	Address	•					
2. Plant Browns	Ferry Nuclea	r Plant	·	Unit 2			
	Name						
P.O. Box 200	00; Decatur,	AL 35609-	2000	Work Order	94-06	277-00 .O. No., Job No.,	etc
	m17.4			•			
3. Work Performed by	TVA	Name		Type Code Symbol	Stamp	N/A N/A	
P O Por 200	0; Decatur,	AT 35600-	2000	Authorization No Expiration Date	λ'		
F.O. DOX 200	Address	<u>нь ээссэ-</u>	2000	expiration Date		7.6	
4. Identification of Sy	stem <u>System 6</u>	3, Standby	Liquid Co	ntrol System	<u> </u>		
5. (a) Applicable Cons	APIL Cada IICA	R31 1 0 40	67 Ediston	r N/A	ddanda	N/A	Code Core
	ion of Section XI Uti				ddenda,		_code case
(b) Applicable cult	ion or section XI On	inzed for Nepalis	Of Replacements	1000			
6. Identification of Co	mponents Repaired o	or Replaced and F	Replacement Con	nponents			
o, lacintingation of oc	impononts riopania (, , , , , , , , , , , , , , , , , , , ,					
							ASME
]	Received	Code
		***************************************	National	0.5	Year	Repaired, Replaced,	Stamped (Yes
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Built	or Replacement	
Component		00,1,2,1,1,0,1]		
	•						
2-FCV-63-008A	Conax Corp.	1		Part Number	!	1	
Squib Valve	Explosive	24	N/A	_1832-117-01	1967	Replaced	No.
	Products Div.					1	
					 	<u> </u>	
					'		
	Panland #	l	omb111 to 0	i quib valve 2	-FCV-6	3-0084 (46	ME.
7. Description of Work							
8. Tests Conducted:	Hydrostatic Prossure_						
					_		
NOTE: Supplemen	ital sheets in form of	lists, sketches, o	or drawings may	be used, provided (1)) size is 8½	in. x 11 in., (2)	informa-
tion in items 1 thre recorded at the top	ough 6 on this repor of this form.	t is included on (each sheet, and (3) each sheet is nur	nberea an	a the number of	sneets is
(12/82)	This Form (F000)	(A) may be obtain	and from the Ord	er Dept., ASME, 345	5 F 47+5 G	St New York N	V 10017
*							
as amended by Electric Spec					'A cont	ract 66C80	
and GE Purcha	se Order 205	- 58968).	* *	-	*		

Page 38 of 148

9.	Remarks Existing 2-FCV-63-008A experienced loss of electrical continuity alarm
•	Applicable Manufacturer's Data Reports to be attached
	(continuity meter pegged high on increasing current), hence only the trigger
	assembly was required to be replaced. The new trigger assembly, Conax part No
	N27006-02, was procurred under contract P-94N2S-82307E (reference sheets 2 and
	3 of this Form NIS-2 for documentation of manufacturer serial numbers and
	National Board number as the trigger assembly is an ASME Code stamped part).
)
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
	ASME Code, Section XI. repair or replacement
	Type Code Symbol StampN/A
İ	<u>.</u>
	Certificate of Authorization No. N/A Expiration Date N/A
	(1/D) 1-M·M-+ C T
	Signed Signed System ENGINEER Date VINE 6, 1994
L	Owner of Owner & Designee, 11tte
	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 NORTH CAROLINA and employed by HSBT TCO of
	HARTFORD, CT have inspected the components described
	in this Owner's Report during the period 6-10-94 to 6-21-94, 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. O &
	We see
	Inspector's Signature Commissions NC 869 National Board, State, Province, and Endorsements
l	Trational Board, State, Frontier, and Endorsaments

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

- May 3, 1994 1. Owner TENNESSEE VALLEY AUTHORITY Date 1101 Market St.: Chattanooga, TN 37402-2801 Sheet 2 of 3 Unit 2. Plant Browns Ferry Nuclear Plant Work Order 94-06277-00 P.O. Box 2000: Decatur, AL 35609-2000 Job No. Type Code Symbol Stamp 3. Work Performed by TVA N/A P.O. Box 2000; Decatur, AL 35609-2000 Authorization No. N/A **Expiration Date** N/A
- 4. Identification of System System 63, Standby Liquid Control System
 5. (a) Applicable Construction Code USAS 831.1.0 1967 Ed., as amended by the additional procurement requirements contained within General Electric Specifications 21A5575 and 21A5576 (reference TVA contract 66C80-90744 and GE Purchase Order 205-58968)
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986 6. Identification of Components Repaired or Replaced and Replacement Components

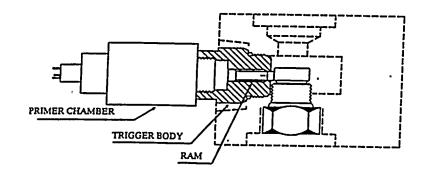
Name of Component	Name of Manufacturer	Manufacturer . Serial No. ·	National Board No.	Other Ident.	Year. Built	Repaired, Replaced, or Replacement	ASME Code Stamped
2-FCV-63-008A Squib Valve	Conax Corp. Explosive Products Div.	24	Ņ⁄A	Part No. 1832-117-01	1967	Replaced	No



2300 WALDEN AVENUE, BUFFALO, NY 14225-0273

Tabulation Materials

Trigger Assembly P/N N27006-02



Trigger Body P/N N38018-01 Vendor: Vitco Nuclear Prod. N106414

P.O. No.: Heat No.: 12035 C/N:

16585

Primer Chamber

P/N: N38062-01 Vendor: **Energy Steel** P.O. No.: N105706

Heat No .: 15017 C/N: 16394 SEP S/N: 900

Ram

N39012-01 P/N Carpenter Tech. Vendor:

N91896 P.O. No.: Heat No .: 53891 16459 C/N:

Trigger Subassembly S/N: 4363

> Customer: Project:

Tennessee Valley Authority Browns Ferry Nuclear Plant

Customer P.O.: Conax S.O.:

P94N2S-82307E-001 7KW600

Conax Quality Control:

40__ of _

Page ol. . .

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

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

Form NIS-2 Sheet 3 of 3 WO #94-06277-00 Pa. 1 of 1

		HUL TO EXCORD (one Day & Froc	raction .		1 g. 1 01 <u>-</u>
. Manufac	ctured and certified by	Conex Buffalo	Corporation, 230	00 Walden Avenue,	Cheektowaga, N	Y 14225
			(name and a	idrees of NPT Certificate I	folder)	
. Manufac	ctured for	Tennesse	e Valley Authority	Knoxville, TN 379	901-5500	
			lname and addr	ees of Purchaser)		
. Location	n of installation	. в	rowne Ferry Nucle	ar Plant, Athene, A	L 35611	
			(nerr	e and address		
Туре:	N20000, Rev. F	8A479 30488T	75 KSI	٨	i/A	1993
· -	(drawing no.)	(mari spec. no.)	(tensis strength)	(0	CRM)	(year built)
ASME	Code, Section III, Division	1: 77	877	•	1	N/A
		(edition)	(addende	date)	(class)	(Code Case no.)
Fabricate	ed in accordance with Con	st. Spec. (Div. 2 only)	N/A	Revision	Date	
		le applicable to ram. Pres re Test at 2800 pei for 10 s				4
		n. design thickness (in.)s rs' Data Reports are attach		***************************************	Length overal	l (ft & in.) See Remen
	Part or Appurtenance Serial Number	National Board No. in Numerical Ord	or	Part or Appurten Serial Numbe		National Board No. in Numerical Order
(1)	4360	4360	(26	s)		
(2)	4361	4361	(27	·		
(3)	4362	4362	(28	()		

Р	art or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	4360	4360	(26)	
(2)	4361	4361	(27)	
(3)	4362	4362	(28)	
(4)	4363	4363	(29)	
(5)			(30)	•
(6)			(31)	
(7)			(32)	
(8)			(33)	
(9)			(34)	
(10)			(35)	
(11)			(36)	
(12)			(37)	
(13)			(38)	
(14)	-	-	(39)	
(15)			(40)	
(16)			(41)	
(17)			(42)	
(18)			(43)	
(19)		•	(44)	
(20)			(45)	
(21)		,	(46)	
(22)	b		(47)	
(23)			(48)	
(24).			(49)	
(25)			(50)	
· · · -				,
Design p	ressure 1400	psi. Temp. 150	°F. Hydro, test pressure	ee Remarks at temp.°F

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

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

10. Design pressure

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

	Certificate Holder's Seri	el Nos. <u>43</u>	60	through	4363	
<u>, , , , , , , , , , , , , , , , , , , </u>	CERTIFICATION OF DESIG	BN				
Design specifications certified by	Clyde T. Nieh	P.E. State	CA	Reg. no.	15587	
	(when applicable) Francis J. Domino		114		36832	
Design report* certified by	(when applicable)	P.E. State	NY	Reg. no	30032	
	CERTIFICATE OF COMPLIAN	NCE .	· · · · · · · · · · · · · · · · · · ·	<u> </u>	,	
We certify that the statements made in th	nis report are correct and that this (these)	Tri	gger Body	Subassemblies		
conforms to the rules of construction of t	he ASME Code, Section III, Division 1.	<u> </u>				
NPT Certificate of Authorization No.	N-1850	Expires	Sept	ember 2, 1995	• • • • • • • • • • • • • • • • • • •	
Date	Conex Buffalo Corporation	Signed	+ mt	Carl regressively		
	CERTIFICATE OF INSPECTIO	DN	-			
I, the undersigned, holding a valid commission	on issued by the National Board of Boiler and	Pressure Vessel Ins	pectors and	the State or Pro	ovince of	
NY and employed by	Hartford Steam Boil	ier inspection & ins	urance Co	mpany		
of Hartford, CT have inspectibest of my knowledge and belief, the Cert Section III, Division 1. Each part listed has By signing this certificate, neither the inspective of the certificate of the certific	s been authorized for stamping on the date ector nor his employer makes any warrant e, neither the inspector nor his employer s	r appurtenances in shown above. Ty, expressed or imp	accordance	with the ASM	ment	
Dato 12-6-43 Signed	Lita Sonta Commit	ssions <u> </u>	YN			
•	(Authorized Inspector)	(Net'l Bd. (incl. endoreem	ents) and state or p	ov. and no.I	

Page 42 of 148

. the way of the

	As Requi	irea by the Prov	isions of the A	Code Section	n Al		
	SEE VALLEY AU arket St. Name nooga, TN 37			Date December			
2. Plant Browns				Unit2			
	Name 00; Decatur, Address			Work Order Repair Orga	94-00 nization P.	227-00 .O. No., Job No.,	etc.
3. Work Performed by	TVA	Name		Type Code Symbol	Stamp	N/A	
P.O. Box 200	00; Decatur,		2000	Authorization No Expiration Date		N/A N/A	
4. Identification of Sy				circulation			
5. (a) Applicable Cons	struction Code <u>USA</u> ion of Section XI Uti	S B31.1.0 19	67 Edition, or Replacements	N/A A			.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)
Jet Pumps	Anchor/	(unable to verify)	N/A	2-FCV-68-33	N/A	Replaced	No
Supply Header Isolation Valve	Darling	to verity)	N/A	_2_FCV=00=55	N/A	Replaced	1,10
,							
		,		2. 20			
				68-33 with 1	ike-fo	r-like ite	ms
7. Description of Work	((valve is A	ASME Code C	lass 1 equ	iivalent)			
8. Tests Conducted:	Other Pressure	<u>N/A</u> psi	ominal Operating Test Temp	<u>N/A</u> *F			•
NOTE: Supplemention in items 1 throrecorded at the top	ntal sheets in form o ough 6 on this report of this form.	f lists, sketches, ort is included on	or drawings may each sheet, and	be used, provided (1 (3) each sheet is nu) size is 8½ mbered an	in. x 11 in., (2) d the number of	informa- sheets is
(12/82) This form	(E00030) may be obta	nined from the Ord	er Dept., ASME, 2	2 Law Drive, Box 2300), Fairfield,	NJ 07007-2300. R	EPRINT 4/93
*as amended by		onal qualit	y assuranc	ce and design	requi	rements co	ntained

Page 43 of 148

9. Remarks TVA elected to replace a stud and nut on 2-FCV-68-33 to facilitate completion of field work.

Applicable Manufacturer's Data Reports to be attached

WO 94-00227-00 was written for the purpose of performing a VT-3 visual examination for corrosion of one stud and nut on this valve as a result of finding leakage at the valve's body-to-bonnet flange during the Unit 2, Cycle 6 Reactor Pressure Vessel leakage test. Approval to delay inspection of a stud/nut for one operating cycle and to inspect in accordance with Paragraph IWA-5250 of the 1992 Edition of the ASME Code was granted by the NRC in response to TVA's submittal of System Pressure Test Program Request for Relief No. SPT-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. **Repair or replacement** **Repair or replacement**
Type Code Symbol StampN/A
Certificate of Authorization No. N/A Expiration Date N/A Signed System ENGINEER Date DECEMBER 5 , 19 94
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
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. Commissions NB 6908 TN 3/35 Inspector's Signature Commissions National Board, State, Province, and Endorsements Date Dec. 6 1994

1. Owner <u>TENNESS</u>	SEE VALLEY AU	THORITY		Date Novemb	er 16.	1994		
1101 Market St. Name Chattanooga, TN 37402-2801 Sheet 1					. 1			
Cnartan	100ga, IN 37 Address	402-2801		Sheetc	11			
2. Plant Browns	Ferry Nuclea	r Plant		Unit2				
P.O. Box 200	P.O. Box 2000; Decatur, AL 35609-2000 Work Order 94-09648-00 Address Repair Organization P.O. No., Job No., etc.							
	3. Work Performed by General Electric Type Code Symbol Stamp N/A Name Authorization No. N/A							
		1100		Authorization No		N/A		
P.O. Box 200		AL 35609-	2000	Expiration Date	N/	A		
	Address	. Unton Doo	d wast a tid an					
4. Identification of Sys	temKeactor	water kec	irculation	i, system oo	···	• •	•	
5. (a) Applicable Cons(b) Applicable Editi6. Identification of Constant	on of Section XI Uti	lized for Repairs	or Replacements	19_86	ddenda,	N/A	Code Case	
		·	1	T	r			
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)	
Recirc Pipe Weld	TVA	N/A	N/A	GR-2-19	N/A	Repaired	No	
Recirc Pipe Weld	TVA	N/A	N/A	GR-2-38	N/A	Repaired	No	
	i							
	Panaired (by	ibni (Isvomor	cations in w	lelds GR-2-19 & (GR-2-38	by grinding	in	
7. Description of Work	accordance wi	th MCI-0-000-	PRP002. Wel	ds located on A	SME Clas	s l equivaler	nt piping.	
7. Description of Hork								
	Hydrostatic Pr Other Pressure		ominal Operating Test Temp					
NOTE: Supplemention in items 1 thron recorded at the top	ough 6 on this repor	f lists, sketches, c t is included on c	or drawings may l each sheet, and (be used, provided (1) (3) each sheet is num	size is 8½ nbered an	in. x 11 in., (2) id the number of	nforma- sheets is	
(12/82) -	This Form (E0003	30) may be obtain	ned from the Ord	er Dept., ASME, 345	5 E. 47th S	t., New York, N.	Y. 10017	
*with supplem	ental requir	ements	-		÷			

Page __45__ of __148__

9.	Remarks
	Applicable Manufacturer's Data Reports to be attached
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this <u>repair</u> conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp
İ	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Fills A System ENGINEER Date November 16, 19 94
	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 Twsp. 4. Tws. Co. of
	Hartford, Cown 4 have 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 manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Ceorge 7 Death Commissions NB 1905 77 3178 Inspector's Signature National Board, State, Province, and Endorsements
	Wational Board, State, Province, and Endorsements
	Date
Ь_	

	GEE VALLEY AU arket St. Name acoga, TN 37			Date November			•
2. Plant Browns				Unit 2			
P.O. Box 200				Work Order	94-115	598-01 .O. No., Job No.,	etc
3. Work Performed by		ctric		Type Code Symbol		N/A	
	00; Decatur,	Namo	2000	Authorization No Expiration Date		N/A	
4. Identification of Sys	tem_Reactor	Water Reci	rculation	System.(68)			
	on of Section XI Uti	lized for Repairs	or Replacements	<u>N/A</u> A 19 <u>86</u>	ddenda,_	N/A	_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)
Recirc Sys. Pipe Weld	TVA	N/A	N/A	GR-2-25	N/A	Repaired	No
					ļ		
•							
7. Description of Work	Removed indica	ation in weld	GR-2-25 by	grinding in acc	ordance		00-PRP002
	Hydrostatic Processure		ominal Operating Test Temp		·		
NOTE: Supplement tion in Items 1 thro recorded at the top	ough 6 on this repor	lists, sketches, o	or drawings may each sheet, and	be used, provided (1) (3) each sheet is nun	size is 8% nbered an	in. x 11 in., (2) id the number of	informa- sheets is
(12/82)	This Form (E0003	0) may be obtain	ed from the Ord	er Dept., ASME, 345	i E. 47th S	St., New York, N.	Y. 10017
*with suppleme	ental require	ements					

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Remarks
Applicable Manufacturer's Data Reports to be attached
,
•
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this <u>repair</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 Fill System ENGINEER Date NOVEMBER 15, 19 94
Signed Style System ENGINEER Date NOVEMBER 13, 19 94
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 Span Blk. Tusp + Trus. Co of
Hartend, Coww have inspected the components described in this Owner's Report during the period 10-14-94 to 11-11-94, and state that
in this Owner's Report during the period, 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.
Commissions <u>ij B 7905</u> TW3178 Inspector's Signature Commissions <u>ij B 7905</u> TW3178 National Board, State, Province, and Endorsements
Date

1. Owner <u>TENNESS</u>	SEE VALLEY AU	THORITY		Date Novemb	er 15	, 1994	
		402-2801		Sheet 1	. 1		
Onaccar	nooga, TN 37	402 2001		Suéet)T		
	Ferry Nuclea			Unit2			
P.O. Box 200	0; Decatur,	AL 35609-	2000	Work Order			
				• =		O. No., Job No.,	
3. Work Performed by	General Ele	Name		Type Code Symbol Authorization No	Stamp	<u> </u>	
P.O. Box 200	0; Decatur,	AL 35609-	2000	Expiration Date	1		
4. Identification of Sys	*	Water Reci	rculation,	System 68			
						*	
5. (a) Applicable Cons (b) Applicable Editi	truction Code_ <u>USAS</u> on of Section XI Uti				.ddenda,_	N/A	_Code Case
6. Identification of Co	mponents Repaired o	or Replaced and F	Replacement Con	nponents			
				T	1	1	1
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)
Recirc Sys. Pipe Weld	TVA	N/A	N/A	GR-2-52	N/A	Repaired	No
2						<u> </u>	
uga .							
A DEST							
3 /,					<u> </u>		<u> </u>
1						2.5	
L	Pomovod trao is	ndications in	1201d CR-2-5	2 by grinding i	n accord	dance with	1
7. Description of Work							
8. Tests Conducted:	Hydrostatic Pr	eumatic No	ominal Operating	Pressure		-8	
	Other Pressure_		Test Temp				
NOTE: Supplement, ion in items 1 through recorded at the top	ough 6 on this repor	Flists, sketches, o t is included on o	or drawings may leach sheet, and (be used, provided (1) (3) each sheet is nur) size is 8½ nbered an	in. x 11 in., (2) id the number of	informa- sheets is
(12/82)	This Form (E0003	(0) may be obtain	ed from the Ord	er Dept., ASME, 345	5 E. 47th S	St., New York, N.	Y. 10017
*with supplem	nental requir	ements					

Page 49 of 148

9.	Remarks
	Applicable Manufacturer's Data Reports to be attached
	·
_	
ĺ	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this <u>repair</u> conforms to the rules of the
	ASME Code, Section XI. repair or replacement
	Type Code Symbol StampN/A
İ	
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Willest SXSTEM ENGINEER Date NOVEMBER 15 , 1994
	Owpor or 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 TENN. and employed by HSBT & T
	HARTFORD, CT. have inspected the components described in this Owner's Report during the period 10/18/94 to 11/14/94 , 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.
	What Toll word Tol 3/20
	Commissions N86908 TN 3/35 Inspector's Signature National Board, State, Province, and Endorsements
ı	indication bound, orare, a formion, and Emporations
ı	1/04 11 04
	Date19_79

1. Owner TENNES	SSEE VALLEY A	UTHORITY		pate Novembe	r 21,	1994	
1101 N	farket St. Name						
Chatta	nooga, TN 3	7402-2801		Sheet of	3		
2. PlantBrowns	Ferry Nuclea	ar Plant		Unit2	· · · · · ·		
	000; Decatur,		-2000	Work Order	94-13	986-00 .O. No., Job No.,	***
		•					dic.
3. Work Performed by The James I		Name		Type Code Symbol S Authorization No			
	735 Broad Street Suite 804; Chattanooga, TN 37402 Expiration Date N/A						
	Address Lidentification of System System 68, Reactor Water Recirculation (Reactor Pressure Vessel)						
1332-1, 1332-3, 1334 5. (a) Applicable Construction Code ASME Sec. III 19 65 Edition, Summer 1965 Addenda, 1335-2, 1336 Code Case							
5. (a) Applicable Cor	struction Code_ASME	Sec. III 19	65 Edition,	Summer 1965 Ac	idenda,	1335–2, 1336	_Code Case
(b) Applicable Edi	tion of Section XI Uti	lized for Repairs	or Replacements	19 <u>86</u>			
6. Identification of Co	omponents Repaired o	or Replaced and F	Replacement Con	nponents			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Instrument	GE	L3244	N/A	Core Location	N/A	Replacement	No
Dry Tube .	Reuter-Stokes		ļ	40-21			
Instrument	GE Pouton-Stokes	L3242	N/A	Core Location 48-53	N/A	Replacement	No
Dry Tube Instrument	Reuter-Stokes GE	L3254	N/A	Core Location	N/A	Replacement	No
Dry Tube	Reuter-Stokes	B3234	.,,,,,	24-29	1.7 11	paddone	
Instrument	GE	L3241	N/A	Core Location	N/A	Replacement	No
Dry Tube	Reuter-Stokes			48-13			
Instrument	GE	L3253	N/A	Core Location	N/A	Replacement	No
Dry Tube	Reuter-Stokes	<u> </u>		16-45		<u> </u>	<u> </u>
7. Description of Wor	k_ Replacemen	nt of Inst	rument Dry	Tubes			
8. Tests Conducted:	Hydrostatic Protection Processure		ominal Operating Test Temp				
	ntal sheets in form of rough 6 on this repor o of this form.						

 $\mbox{\ensuremath{^{\star}}}$ and as amended by additional quality assurance and design requirements contained in contract 21042-GE-00016Q

(12/82)

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

9.	Remarks Dry Tube replacement due to IVVI Inspection revealing unacceptable
	Applicable Manufacturer's Data Reports to be attached
	indications. A system leakage test of the Reactor Pressure Vessel and associated
	piping was performed per Surveillance instruction 2-SI-3.3.1.A of which the
	aforementioned Instrument Dry Tubes being within the inspection boundary.
į	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 Signed System ENGINEER Date DECEMBER 2 , 1994
	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 TENN and employed by #587 FT of
	HART FORD, CT have inspected the components described
	in this Owner's Report during the period 10/16/94 to 10/24/94 , and state that
i	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.
İ	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.
	Ill. I fell NOGORGE TUZZE
	Commissions
	Date Dec. 6 19 94
ŀ	10 / /

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

1.	Owner TENNESSEE VALLEY AUTHORITY	Date November 21, 1994	
	1101 Market St.; Chattanooga, TN 37402-2801	Sheet <u>2</u> of <u>3</u>	
2.	Plant Browns Ferry Nuclear Plant	Unit2'	
	P.O. Box 2000; Decatur, AL 35609-2000	Job No. Work Order 94-13986-00	_
3.	Work Performed by General Electric	Type Code Symbol Stamp N/A	_
	The James Building	Authorization No. N/A	
	734 Broad St. Suite 804; Chattanooga, TN 37402	Expiration Date N/A	
4.	Identification of System System 68, Reactor Water Recirculation	(Reactor Pressure Vessel)	

5. (a) Applicable Construction Code ASME Section III, 1965 Edition w/ Summer 1965 Addenda, 1332-1, 1332-3, 1334, 1335-2, & 1336 Code Cases, and as amended by additional quality assurance and design requirements contained in contract 21042-GE-00016Q

(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	Name of Manufacturer	Manùfacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
Instrument Dry Tube	GE Reuter-Stokes	L3247	N/A	Core Location 32-29	N/A	Replacement	No
Instrument Dry Tube	GE Reuter-Stokes	L3250	N/A	Core Location 40-45	N/A	Replacement	No
nstrument Dry Tube	GE Reuter-Stokes	L3248	N/A	Core Location 24-37	N/A	Replacement	No
Instrument Dry Tube	GE Reuter-Stokes	L3243	N/A	Core Location 32-37	N/A	Replacement	No
Instrument Dry Tube	GE Reuter-Stokes	L3245	N/A	Core Location 16-21	N/A	Replacement	No
Instrument Dry Tube	GE Reuter-Stoke's	L3251	N/A	Core Location 16-13	N/A	Replacement	No
instrument Dry Tube	GE Reuter-Stokes	L3252	N/A	Core Location 16-53	N/A	Replacement	No

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FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by GE REUTER-STOKES, INC., 8499 DARROW ROAD, TWINSBURG, OHIO 44087 (Name and address of Manufacturer of part)
(b) Manufactured for BROWNS FERRY, TVA, DECATUR, ALABAMA (Name and address of Manufactures of completed nuclear component)
2. Identification-Manufacturer's Serial No. of Part L3241 THRU L3254 Nat'l Bd. No. N/A
(a) Constructed According to Drawing No. RS-E5-1500-201 Drawing Prepared by GE REUTER-STOKES
(b) Description of Part Inspected UNIVERSAL DRY TUBE
SUMMER
(c) Applicable ASME Code: Section III, Edition 1977, Addenda date 1977, Case No. N/A Class 1
3. Remarks: DESIGN: PRESSURE 1250 PSIG, TEMPERATURE - VESSEL 575°F, FLANGE 300°F (Brief description of service for which component was designed)
HYDROSTATIC TEST PRESSURE: 1925 PSIG
We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. Spplicable Design Specification and Stress Report are not the responsibility of the part Manufacturer. An appurtenance included component Design Specification and Stress Report.) Date
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
Design information on file at GE REUTER-STOKES TWINSBURG, OHIO CDS-C-5600-1
Stress analysis report on file atGE REUTER-STOKES TWINSBURG, OHIO CDR-C-5600-01
Design specifications certified by DOUGLAS E. BACSO . Prof. Eng. State OH Reg. No. E-044071
Stress analysis report certified by SURINDER L. KAMPANI . Prof. Eng. State OH Reg. No. E-034113
CERTIFICATE OF SHOP INSPECTION
1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of OHIO and employed by H.S.B.I. & I. Co. of HARTFORD, CT have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on 9-25 1992, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected this inspection.
Acal C. Schall Commissions NB 7920 OH10 - MWCZ454-N Inspector's Signature Commissions NB 7920 OH10 - MWCZ454-N National Board, State, Province and No.

And the second s The man Mariana . 1354

1. Owner TENNESS	SEE VALLEY AL	ITHORITY	<u>. </u>	Date Novembe	er 23.	1994	
1101 Ma	arket St. Name		<u> </u>				
Chattar	nooga, TN 37	7402-2801		Sheet 1	f 1		
				Unit 2			
2. Plant <u>Browns</u>				Unit	-		
P.O. Box 200	00; Decatur,	AL 35609-	<u>-2000</u>	Work Orde	er 94-	15880-00 .O. No., Job No.,	etc .
3. Work Performed by				Type Code Symbol			0.01
James Bldg.	#804	Name		Authorization No.	Otamp	N/A	
	t.: Chattanoc	oga, TN 3	7402	Expiration Date		N/A	
4. Identification of Sys	Address	O Docato	n Hatan Da	aimaulatian	(Page)	ton Voccol)	
4. Identification of Sys	tem <u>System c</u>	o, keacto	r_water_ke	CITCUIALION	TREAC	COT_AERSET	,
5. (a) Applicable Cons	truction Code ASME	EM, CL 1 ₁₉	74Edition,	Winter 75	ddenda,_	N/A	_Code Case
(b) Applicable Editi	on of Section XI Uti	lized for Repairs	or Replacement	s 19 <u>86</u>			
6. Identification of Co	mnononte Panairad e	e Banlacad and I	Panlacement Cor	mnonente			
b. Identification of Col	inponents nepaired c	n riepiaceo ano i	neplacement col	mponents			
Name of	Name of	Manufacturer	National Board	Other	Year	Repaired, Replaced,	ASME Code Stamped (Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
In-Core Flange	General.	•	ASME Cert.	GE Part No.			
@ location 08-25	Electric	N3230-2-1	of Auth.	107C5053G001	N/A	Replaced	No
			N-1888	HT #7638N			
In-Core Flange	General.		ASME Cert.	GE Part No.		1	
cap screws @	Electric	N/A	of Auth.	117C4515P001	N/A	Replacement	No
location 08-25			N-1888	HT #M51481			
					<u> </u>		
¥							
7. Description of Work	Replaced in-c	ore flange a	nd cap screws	at location 08	-25 wit	h new compone	nts.
	Hydrostatic Pn Other Pressure		ominal Operating		ı		
NOTE: Supplemention in items 1 thro	ough 6 on this report	lists, sketches, o t is included on	or drawings may each sheet, and	be used, provided (1) (3) each sheet is nun	size is 8½ nbered an	in. x 11 in., (2) i d the number of	nforma- sheets is

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9.	Remarks Since the replacement activity involved only the disassembly and
	Applicable Manufacturer's Data Reports to be attached
	reassembly of a mechanical joint, a system pressure test of IWA-5211(a)
	(system leakage test) was performed per Surveillance Instruction 2-SI-3.3.1.A.
	F
	, CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
	ASME Code, Section XI. repair or replacement
	•
	· • • • • • • • • • • • • • • • • • • •
	Type Code Symbol StampN/A
	27/4
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Fills J. System Engineer Date November 23, 1994 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 ofand employed by HARIFOLD SITH. BLR. TNSP. 4TNS. CO. of
	HIRI FORD, CONN. have inspected the components described
	in this Owner's Report during the period 10-16-94 to 11-29-94, 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.
	13.7.77 in 9635 TN 2430 F-N-T
	Commissions 9635, TN. 2430 FI-N-T. Inspector's Signature National Board, State, Province, and Endorsements
	11-29 1994
	· · · · · · · · · · · · · · · · · · ·

1. Owner TENNES:	CEE VATTEV AI	!!THOD T TV		Dava Novemb	nar 21	, 1994	-
1. Owner 1101 M	arket St. ^{Name}	JIIOKIII		Date Novemb	CL AL	, 1994	
				Sheeto	e	1	
Chatta	nooga, TN 37	402-2001		SheetO	'	<u> </u>	
2. Plant Browns	Ferry Nuclea	er Plant		Unit2			· · · · · · · · · · · · · · · · · · ·
P 0 Pov 200	OO: Docatur	AT 35609-	-2000	Worknian 21	635-0	01	
1.0. DOX 200	00; Decatur, Address	<u>ин ээссэ</u>	2000_	<u>Workplan 21</u> Repair Organ	nization P	.O. No., Job No.,	etc.
3 Work Performed by	General Ele	ectric		Type Code Symbol	Stamp	N/A	
3. Work Performed by 640 Freedom	Bus. Ctr.	Name		A .1 1 .1. A1.		N/A	
	ssia, PA 194			Expiration Date		N/A	
	Address						
4. Identification of Sys	stem System	68, Reacto	or Water R	ecirculation			
5. (a) Applicable Cons	usa	S B31.1.0 19	67 Edition	*	ddenda	N/A	Code Case
5. (a) Applicable Coll.	ion of Section XI Uti	lized for Renairs	or Replacement	. 19 86			_0000 0000
(b) Applicable Euli	ion or section at ou		Of Treplacement	3 10			
6. Identification of Co	mnonente Renaired (or Replaced and F	Replacement Cor	mponents			
o. Identification of Co	mpononts ricpanes t	or respicted and r	topiuoomont oo.	pottotto			
						I	
						 .	ASME
						Repaired,	Code Stamped
N a4	Nome of	Manufacturer	National	Other	Year	Replaced,	(Yes
Name of Component	Name of Manufacturer	Serial No.	Board No.	Identification	Built	or Replacement	1
Component	i i i i i i i i i i i i i i i i i i i	00.10.110.	110.	100111110011011	55	'	
Recirc Pipe		· .		Pipe Weld	,	l	
Weld	N/A	N/A	N/A	GR-2-64 (OL)	N/A	Repaired	No
	,						
						 	
						ŀ	
						ļ	
			•				
		<u> </u>		-			
,				,			
	Applied a full	1	rold overlor	y to repair Reci	m nino	1101d CP-2-64	
7. Description of Work	(Code Class 1	L SCLUCTULAL	nor Postm (Thomas Notice (D	CA) ristr rc brbe	6354	
7. Description of Work	(Code Class I	equivalent)	per resign (Mange Notice (D	CIV) WZI	033A.	
0. 7 0	Decidence of a Company			- 0	A	4	
8. Tests Conducted:	Other Pressure_						
	Other Pressure_	psi	rest remp				
				harred marridad (1)	aleo la Oli	'in v 11 in (2)	Informa.
NOTE: Supplemen	ital sheets in form of	i lists, sketches, o	or drawings may	be used, provided (1) (3) each sheet is nun	size is on obered an	d the number of	sheets is
recorded at the top		t is miciausu on	coon silest, allu	10, cuon anote la liun			
7000.000 at the top							
(12/82)	This Form (E0003	30) may be obtain	ned from the Ord	der Dept., ASME, 345	E, 47th S	St., New York, N.	Y. 10017
	-			•		•	
*with supplem	ents					-	
wren aubbrem	CII CO	,		A N			
		Page	<u>57</u> of.	148			
		J-					

9.	Remarks TVA elected to invoke ASME Code Case N-504-1 as an acceptable alternative	e
٠.	Applicable Manufacturer's Data Reports to be attached	-
	in repairing Recirc weld GR-2-64 by application of a full structural weld	
	overlay. This alternative was subsequently approved by the NRC as an acceptable	ie
	means of repair. Since the pressure boundary was not penetrated while applying	g
	the overlay, the Code Case requirement of performing a pressure test in	
	accordance with IWA-5000 was met by performing a system leakage test per	
	Surveillance Instruction 2-SI-3.3.1.A.	•
Г	OPDITIONITY OF COMPLIANCE	1
	CERTIFICATE OF COMPLIANCE	
	We certify that the statements made in the report are correct and this repair conforms to the rules of the	
	ASME Code, Section XI.	
	Type Code Symbol Stemp	
	Type Code Symbol StampN/A	1
	Certificate of Authorization No. N/A Expiration Date N/A	
	Certificate of Authorization No. N/A Expiration Date N/A	
	Signed Hollis & Kulbert, SXSTEM ENGINEER Date NOVEMBER 24, 1994	ı
	Signed AND Signed Signe	ı
_		1
		7
	CERTIFICATE OF INSERVICE INSPECTION	1
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State	1
	or Province of TENN. and employed by HARIFORD STATE BUR. TASP. 4-TAS. CO. of	
	HERIFORD, CONN. have inspected the components described	
	in this Owner's Report during the period 10-17-94 to 11-6-94, and state that	
	to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this	1
	Owner's Report in accordance with the requirements of the ASME Code, Section XI.	İ
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the	l
	examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer	ı
	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	ı
	inspection.	ı
	Inspector's Signature Commissions 9635 IN. 2430 FI-N-T National Board, State, Province, and Endorsements	1
	Inspector's Signature National Board, State, Province, and Endorsements	1
		Ī
	Date	

1. Owner TENNES	SEE VALLEY AU	THORITY		Date Decembe	r 12,	1994	
1. Owner101 M	arket St. Name			Date			
	nooga, TN 37	7/102-2801		Sheet 1 o	. 1		
Chactai	Address	402-2001		Sheeto	f		
_				•			
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2			
	Name						
P.O. Box 200	00; Decatur,	AL 35609-	-2000	Work Order			'
	Address	Te.		Repair Organ	nization P	.O. No., Job No.,	etc.
3. Work Performed by	TVA	•		Type Code Symbol	Stomn	N/A	
3. Work Performed by		Name		Authorization No	Jtailip	N/A	
D O Pov 20/	00; Decatur,	AT 35600-	2000	Authorization No			
P.O. BOX 200	Address	AD 33009-	2000	Expiration Date		14/11	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	73 D	C T	-l-wien Geeli			
4. Identification of Sys	stem System	/I, Reacto	or Core iso	otation Cooti	.ng		
5. (a) Applicable Cons	struction Code USA	S B31.1.0 ₁₉	67Edition,_	<u> N/A </u>	ddenda,_	N/A	Code Case
(b) Applicable Editi	ion of Section XI Uti	lized for Renairs	or Replacements	19 86	-		
(b) Applicable con	ion or section At on	ileca ioi ricpolis	Of Tropiocomonic				
6. Identification of Co	mponents Repaired o	r Replaced and F	Replacement Con	nponents			
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						1	l <u> </u>
						İ	ASME
							Code
			National			Repaired,	Stamped
Name of	Name of	Manufacturer	Board	Other	Year	Replaced,	(Yes
Component	Manufacturer	Serial No.	· No.	Identification	Built	or Replacement	or No)
· ·							
	1						
				'			<u> </u>
RCIC Steam	Bergen-	G56410-4R	, H	2-SNUB-071		ı	
RCIC Steam	Bergen-			· ·	N/A	I .	No
Supply Line	Paterson	(TVA Serial	N/A	2-SNUB-071 -5010	N/A	Replaced	No
1	Paterson Pipesupport	(TVA Serial		· ·	N/A	I .	No
Supply Line	Paterson	(TVA Serial	N/A	· ·	N/A	I .	No
Supply Line	Paterson Pipesupport	(TVA Serial	N/A	· ·	N/A	I .	No
Supply Line	Paterson Pipesupport	(TVA Serial	N/A	· ·	N/A	I .	No
Supply Line	Paterson Pipesupport	(TVA Serial	N/A	· ·	N/A	I .	No
Supply Line	Paterson Pipesupport	(TVA Serial	N/A	· ·	N/A	I .	No
Supply Line	Paterson Pipesupport	(TVA Serial	N/A	· ·	N/A	I .	No
Supply Line	Paterson Pipesupport	(TVA Serial	N/A	· ·	N/A	I .	No
Supply Line Souther	Paterson Pipesupport Corp.	(TVA Serial No: MO346)	N/A	-5010	`	Replaced	
Supply Line Snutber	Paterson Pipesupport Corp. Replaced cy	(TVA Serial No: MO346)	N/A snubber 2-	-5010 -5010 -5010	O with	Replaced	like
Supply Line Snutber	Paterson Pipesupport Corp. Replaced cy	(TVA Serial No: MO346)	N/A snubber 2-	-5010 -5010 -5010	O with	Replaced	like
Supply Line Souther	Paterson Pipesupport Corp. Replaced cy	(TVA Serial No: MO346)	N/A snubber 2-	-5010 -5010 -5010	O with	Replaced	like
Supply Line Snuther 7. Description of Work	Paterson Pipesupport Corp. Replaced cy item (snubk	(TVA Serial No: MO346) vlinder on per is an A	N/A snubber 2-	-5010 -5010 -5010 -5010 -5010 -5010 -5010	O with	Replaced	like
Supply Line Snutber	Paterson Pipesupport Corp. Replaced cy item (snubk	(TVA Serial No: MO346) vlinder on per is an A	N/A snubber 2-	-5010 -5010 -SNUB-071-501 Class 2 equiv	O with	Replaced	like
Supply Line Snuther 7. Description of Work	Paterson Pipesupport Corp. Replaced cy item (snubk	(TVA Serial No: MO346) vlinder on per is an A	N/A snubber 2-	-5010 -5010 -SNUB-071-501 Class 2 equiv	O with	Replaced	like
Supply Line Snuther 7. Description of Work	Paterson Pipesupport Corp. Replaced cy item (snubk	(TVA Serial No: MO346) vlinder on per is an A	N/A snubber 2-	-5010 -5010 -SNUB-071-501 Class 2 equiv	O with	Replaced	like
Supply Line Shuber 7. Description of Work 8. Tests Conducted:	Replaced cy item (snubk	(TVA Serial No. MO346) vlinder on per is an A	snubber 2-ASME Code (cominal Operating Test Temp.	-5010 -5010 -SNUB-071-501 Class 2 equiv	0 with	Replaced like-for-component)	like
7. Description of Work 8. Tests Conducted:	Replaced cy item (snubk	(TVA Serial No. MO346) vlinder on per is an A meumatic No. psi	snubber 2-ASME Code (cominal Operating Test Temp	-5010 -5010 -SNUB-071-501 Class 2 equiv	O with valent	Replaced like-for- component)	like
7. Description of Work NOTE: Supplemention in Items 1 three	Replaced cy item (snubk Hydrostatic Prossure tal sheets in form or ough 6 on this report	(TVA Serial No. MO346) vlinder on per is an A meumatic No. psi	snubber 2-ASME Code (cominal Operating Test Temp	-5010 -5010 -SNUB-071-501 Class 2 equiv	O with valent	Replaced like-for- component)	like
7. Description of Work 8. Tests Conducted:	Replaced cy item (snubk Hydrostatic Prossure tal sheets in form or ough 6 on this report	(TVA Serial No. MO346) vlinder on per is an A meumatic No. psi	snubber 2-ASME Code (cominal Operating Test Temp	-5010 -5010 -SNUB-071-501 Class 2 equiv	O with valent	Replaced like-for- component)	like

Page 59 of 148

(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

9. Remarks NODE
Applicable Manufacturer's Data Reports to be attached
•
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 His Later System ENGINEER Date DECEMBER 13 , 19 94
CERTIFICATE OF INSERVICE INSPECTION
1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENN, and employed by HERIFORD SIM, BLR. TNSP. 4-INS. CO. of HERIFORD, CONN. have inspected the components described in this Owner's Report during the period 10-7-94 to 12-29-94, 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.
Inspector's Signature Commissions NO. 9635 TN. FI-N-T. National Board, State, Province, and Endorsements
Date12-29_1994

1. Owner TENNES	CEE VALLEV AII	THOPITY		Date Decemb	or 4	1994	
1. Owner <u>1500055</u>	arket St. Name	IIIONIII		DateDecemb	CL 4,	1774	
	nooga, TN 37			Sheet1c	of1_		
				Unit 2			
2. Plant Browns	Ferry Nuclea	er Plant		Unit2			
				Work_Order	~ 03-0°	2108-00	
P.O. Box 200	Address	AL 33003-	-2000	Repair Orga	nization P	.O. No., Job No.,	etc.
3. Work Performed by	TVA			Type Code Symbol	Stamp	N/A	
		Name	0000	Additionization No.			
P.O. Box 200	00; Decatur,	AL 35609-	-2000	Expiration Date		N/A	
4. Identification of Sys	Cuaton	74, Residu	ual Heat Re	emoval			
	IICA	C D21 1 A	67 - *	N/A		NI/A	
5. (a) Applicable Cons	truction CodeUSA	<u>3 D31.1.U 19</u>	O/Edition,_	N/AA	ddenda,	M/A	_Code Case
(b) Applicable Edit	on of Section XI Uti	lized for Repairs	or Replacements	19			
6. Identification of Co	mponents Repaired o	or Replaced and F	Replacement Con	nponents			
		,		·	,	T	,
							ASME
		ļ					Code
			National			Repaired, Replaced,	Stamped (Yes
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board . No.	Other Identification	Year Built	or Replacement	1
Component	Manufactores	Contai ivo.		100111110011011		·	
nim C T	1141114	/ umahla ta				 	
RHR Sys II Discharge Cross-	William Powell	(unable to verify)	N/A	2-FCV-74-101	N/A	Replaced	No
tie Valve to U-3	LOWETT	VELILY /	10/11	2 10/ /4 101	147.11	Кергасса	- <u>```</u>
DEG TOMAKE GO							
			•				
]	1	
			· · · · · · · · · · · · · · · · · · ·				
			. `				
	Replaced va	lve's gate	e (wedge)	with like-for	r-like	item (valv	e is
7. Description of Work	ASME Code (Class 2 equ	ıivalent)				
	· -			_			
8. Tests Conducted:							
	Other Pressure_	IV/A psi	lest lemp	N/A F			
NOTE: Sunnlemen	tal sheets in form of	f liete eketches o	or drawings may l	be used, provided (1)) size is 8½	in. x 11 in (2)	informa-
tion in items 1 thre	ough 6 on this repor	t is included on	each sheet, and	(3) each sheet is nur	nbered an	d the number of	sheets is
recorded at the top	of this form.						
(12/82)	This Form (E0003	0) may be obtain	ned from the Ord	er Dept., ASME, 345	5 E. 47th S	St., New York, N.	Y. 10017
*							1
as amended by within contra			ssurance a	nd design re	quirem	ents conta:	ıned

Page 61 of 148

9.	Remarks Although wedge was originally procurred QA Level 0 per contract 75P52-
-•	Applicable Manufacturer's Data Reports to be attached
	49395, the wedge was upgraded to QA Level 2 per PEG Evaluation 9300009438A0
	•
	and contract P-93NJV-81108E.
	•
	•
	•
Г	
	CERTIFICATE OF COMPLIANCE
l	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 Willest, System FNGINEER Date DECEMBER 5, 19 94
	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
	HARTFORD, CT have Inspected the components described
	HARTFORD, CT have inspected the components described in this Owner's Report during the period 10/6/94 to 10/3/14 , and state that
	in this Owner's Report during the period to 10/3/17, and state that
ŀ	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.
	[11] + 11
	Inspector's Signature Commissions VBG908 TN 3/35 National Board, State, Province, and Endorsements
l	Inspector's Signature National Board, State, Province, and Endorsements
	Date 1/26, 6 1994

1. Owner_TENNESS	SEE VALLEY AU	THORITY		Date Novemb	er 15,	1994	
1101 Ma	rket St. Name						
Chattan	ooga, TN 37	402-2801		Sheet1o	f1		
2. Plant Browns				Unit 2			
P.O. Box 200	0; Decatur,	AL 35609-	2000	Work Order Repair Organ	94-096	48-01	
3. Work Performed by	General El	ectric Name		Type Code Symbol : Authorization No	Stamp	N/A	
				Expiration Date		N/A	
	0; Decatur,						
4. Identification of Sys	_{stem} Residual	Heat Remo	val, Syste	m 74			
5. (a) Applicable Cons(b) Applicable Editi6. Identification of Constant					ddenda,	N/A	Code Case
			·	<u>, </u>			
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 Weld	TVA	N/A	N/A	DRHR-2-07	N/A	Repaired	No
7. Description of Work	Repaired (by moderated)	emoval) indi 002. Weld lo	cation in we cated on ASM	ld DRHR-2-07 by E Class 1 equiva	grindir alent pi	ng in accordant	nce with
	Hydrostatic Protection Processure		ominal Operating Test Temp.				
NOTE: Supplemen tion in items 1 thro recorded at the top	ough 6 on this repor	lists, sketches, o	or drawings may leach sheet, and (be used, provided (1) (3) each sheet is nun	size is 8½ nbered an	in. x 11 in., (2) id the number of	nforma- sheets is
(12/82)	This Form (E0003	0) may be obtain	ned from the Ord	er Dept., ASME, 345	E. 47th S	St., New York, N.	Y. 10017
*with supplement	al requirements			*			

Page 63 of 148

Remarks		
	Applicable Manufact	cturer's Data Reports to be attached
	•	
		OF COMPLIANCE
We certify that the statem ASME Code, Section XI.	ents made in the report are	e correct and this repair 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 What's Designed	PETT, SXSTEM E	Expiration Date N/A N/A N/A N/A N/A N/A N/A N/A
	CERTIFICATE OF	INSERVICE INSPECTION
I, the undersigned, holding a valid co or Province of <u>TENN</u> ,	ommission issued by the Na	ational Board of Boiler and Pressure Vessel Inspectors and the S
MARTFORD, CT	10/10/04	have inspected the components descri
		rmed examinations and taken corrective measures described in
Owner's Report in accordance with		
		ployer makes any warranty, expressed or implied, concerning
examinations and corrective measu		er's Report. Furthermore, neither the Inspector nor his emplo
		ty damage or a lose of any kind arising from or connected with
shall be liable in any manner for an	y personal injury or propert	ty domage of a loss of any kind drising from or connected with
	y personal injury or propert	,
shall be liable in any manner for an	101	
shall be liable in any manner for an	Comp	imissions NB6908 TN 3135 National Board, State, Province, and Endorsements
shall be liable in any manner for an inspection.	Comp	

1. Owner TENNES	SEE VALLEY AU	JTHORITY		Date Noven	nber 1	5, 1994		
	arket St. Name			5.				
Chatta	nooga, TN 37	/402-2801		Sheet 1 o	f 1			
				Unit 2				
2. Plant Browns	Name	ir Franc		Unit4				
P.O. Box 20	00; Decatur,	AL 35609-	-2000	Work Order	94-11	598-03		
	Address		-	Repair Organization P.O. No., Job No., etc.				
3. Work Performed by	General Ele	ctric		Type Code Symbol Stamp N/A				
		Name		Authorization No		_N/A		
P.O. Box 20	00; Decatur,	AL 35609-	-2000	Expiration Date]	N/A		
				7/				
4. Identification of Sy	stem <u>Keslaua</u>	ит неат кеп	noval, Sysi	cem_/4				
5. (a) Applicable Con	etruction Code IISA	S B31.1.0 19	67 Edition	N/A A	ddenda	N/A_	Code Case	
	tion of Section XI Uti						_0000 0030	
(5) / (5)								
6. Identification of Co	omponents Repaired o	or Replaced and F	Replacement Con	ponents				
		·		1			1 1	
							ASME	
'		i					Code	
	•		National		ľ	Repaired,	Stamped	
Name of	Name of	Manufacturer	Board	Other	Year	Replaced, or Replacement	(Yes or No)	
Component	Manufacturer	Serial No.	No.	Identification	Built	Of Replacement	01 140/	
RHR Pipe		27.4		DDVD 0 0/	,,,] ,,	
Weld	TVA	N/A	N/A	DRHR-2-04	N/A	Repaired	No	
					 			
	· · · · · · · · · · · · · · · · · · ·							
	u	•						
		,	77177 0 0/1	1	<u> </u>			
				y grinding/buff			tn	
7. Description of World	k MCI-O-OOO-PRE	002. Weld 10	cated on Ash	E Class 1 equiv	atent p	rbrid.		
0. Total Conditional	Houston and a Company		!!	D				
8. Tests Conducted:	Hydrostatic Protection Processure							
	Amer T. Liezzane	bsi	lest temp.	ш/-А Г				
NOTE: Supplemen	tal sheets in form of	f lists, sketches. c	or drawings may l	be used, provided (1)	size is 8½	in. x 11 in., (2) i	informa-	
tion in items 1 thr	ough 6 on this repor	t is included on	each sheet, and (3) each sheet is nun	nbered an	d the number of	sheets is	
recorded at the top	of this form.						•	
•		#						
(12/82)	This Form (E0003	0) may be obtain	ned from the Ord	er Dept., ASME, 345	E. 47th S	St., New York, N.	Y. 10017	

Page 65 of 148

 $\ensuremath{^\star}$ with supplemental requirements

9.	Remarks
-	Applicable Manufacturer's Data Reports to be attached
Г	OFFICIANT OF COMPLIANCE
	CERTIFICATE OF COMPLIANCE repair
	We certify that the statements made in the report are correct and this <u>repair</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
	Certificate of Authorization No. N/A Expiration Date N/A Signed William Country Designee, Title Signed Owner's Designee, Title
ı	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
l	
	In this Owner's Report during the period 10/19/94 to 11/19/94, 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.
	Commissions NB 6908 TN 3135 Inspector's Signature National Board, State, Province, and Endorsements
	Date

						<u> </u>		
	SEE VALLEY AU arket St. Name nooga, TN 37		Date Novemb					
2. PlantBrowns_				Unit2				
P.O. Box 200		AL 35609-	-2000	Work Order 94-09980-00 Repair Organization P.O. No., Job No., etc.				
3. Work Performed by				Type Code Symbol	Stamp	N/A		
P.O. Box 200	00; Decatur, Address	AL 35609-	-2000	Authorization No Expiration Date		N/A N/A		
4. Identification of Sys	stem Core Spr	ay, System	75					
5. (a) Applicable Cons(b) Applicable Editi6. Identification of Constitution	on of Section XI Uti	lized for Repairs	or Replacement	N/A A s 19 <u>86</u>	ddenda,	N/A	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)	
CS Pipe Weld	TVA	N/A	N/A	DCS-2-05	N/A	Repaired	_No	
CS Pipe Weld	TVA	N/A	N/A	DCS-2-14	N/A	Repaired	No	
		1)		11- 000 2 05 6	POC 0			
7. Description of Work				velds DCS-2-05 & ds located on A				
	Hydrostatic Pr Other Pressure		ominal Operating Test Temp					
NOTE: Supplemention in items 1 throrecorded at the top	ough 6 on this repor	f lists, sketches, o t is included on o	or drawings may each sheet, and	be used, provided (1) (3) each sheet is nur	size is 8½ nbered an	in. x 11 in., (2) id the number of	nforma- sheets is	
(12/82)	This Form (E0003	0) may be obtain	ed from the Orc	der Dept., ASME, 345	6 E. 47th S	st., New York, N.	Y. 10017	
*with supplem	ental requir	ements		b # - 1				
		Page	67 of	148				

9. Remarks	
Applicable Manufacturer's Data Reports to be attached	
•	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this <u>repair</u> conforms to the rules o	f the
ASME Code, Section XI.	
•	
Type Code Symbol Stamp	
Certificate of Authorization No. N/A Expiration Date N/A	
Certificate of Authorization No. N/A Expiration Date N/A Signed Fig. 10 System ENGINEER Date November 16 1994	,
Signed Holis C. C. System ENGINEER Date NOVEMBER 16 1994	
Owner or 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 Tennessee and employed by Hartford STEAM AIR TUSO + INS. Co.	of
or Province of Tennessee and employed by Hartford STEAM BIR TNSP. + TNS. Co. Hartford, Conn have inspected the components des in this Owner's Report during the period 10-14-94 to 11-16-94, and state	aribad
in this Owner's Panert during the period 10-141-94 to 11-16-94	Cilbea
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, concerni	
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his em	
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected wi	th this
inspection.	
70 7	
Commissions NB 7905 TN 3178 Sinspector's Signature Commissions National Board, State, Province, and Endorseme	
Finduction a Digitatura Mattorial Boats, State, Province, and Endotseme	111.2
Date	-

1101 Ma	Owner TENNESSEE VALLEY AUTHORITY 1101 Market St. Name Chattanooga, TN 37402-2801 Address Plant Browns Ferry nuclear Plant Name					1994	-
				Unit2			
	Name 00; Decatur,			Work Order	94-103	308-00	
	Address	·		Repair Orga	nization P	.O. No., Job No.,	etc.
3. Work Performed by	Nuclear Ene	rgy Servic	es	Type Code Symbol	Stamp	N/A	
		1481116		Authorization No.		N/A	
Shelter Rock R	oad; Danbury, Cl	06810		Expiration Date	N/	A	
	Address						
4. Identification of Sys	_{stem_} System	85, Contr	ol Rod Dr	ive			
5. (a) Applicable Cons(b) Applicable Editi6. Identification of Cons	on of Section XI Util	ized for Repairs	or Replacement	s 19 <u>86</u>	Addenda,		_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)
Control Rod	General			P/N			
Drive @ location	Electric	A5381	N/A_	768E534G008	1992	Replacement	Yes
02-39							
					ļ	-	
Bolting (8 ea)	Vitco	• .		P/N		l	
for CRD location	Nuclear	N/A	N/A	137C9293P001	N/A	Replaced	No
02-39	Products, Inc			HT # 61811			
					 		
							
	Replaced Cl	ass 1 equi	valent Co	ntrol Rod Dr:	ive Med	hanism and	
7. Description of Work							
	Hydrostatic Pn Other Pressure		ominal Operating Test Temp				
NOTE: Supplemen tion in items 1 thro recorded at the top	tal sheets in form of ough 6 on this report of this form.	lists, sketches, o	or drawings may each sheet, and	be used, provided (1 (3) each sheet is nu) size is 8½ mbered an	in. × 11 in., (2) in the number of	informa- sheets is

(12/82)

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

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed
	Applicable Manufacturer's Data Reports to be attached
	per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the
	inspection boundary.
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric
	Installation Specification 22A2125.
_	
	CERTIFICATE OF COMPLIANCE
ļ	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. repair or replacement
l	e e
	/.
	Type Code Symbol StampN/A
	· · · · · · · · · · · · · · · · · · ·
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Holling System ENGINEER Date NOVEMBER 20 , 19 94
Ì_	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 TENU. and employed by H58 I & I of
	HARTFORD, CThave inspected the components described
	in this Owner's Report during the period 7/6/94 to 1/23/94 , 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,
	inspection.
	11/het Tadd
	Inspector's Signature Commissions WB6108 TV 3135 National Board, State, Province, and Endorsements
	Date
	Date

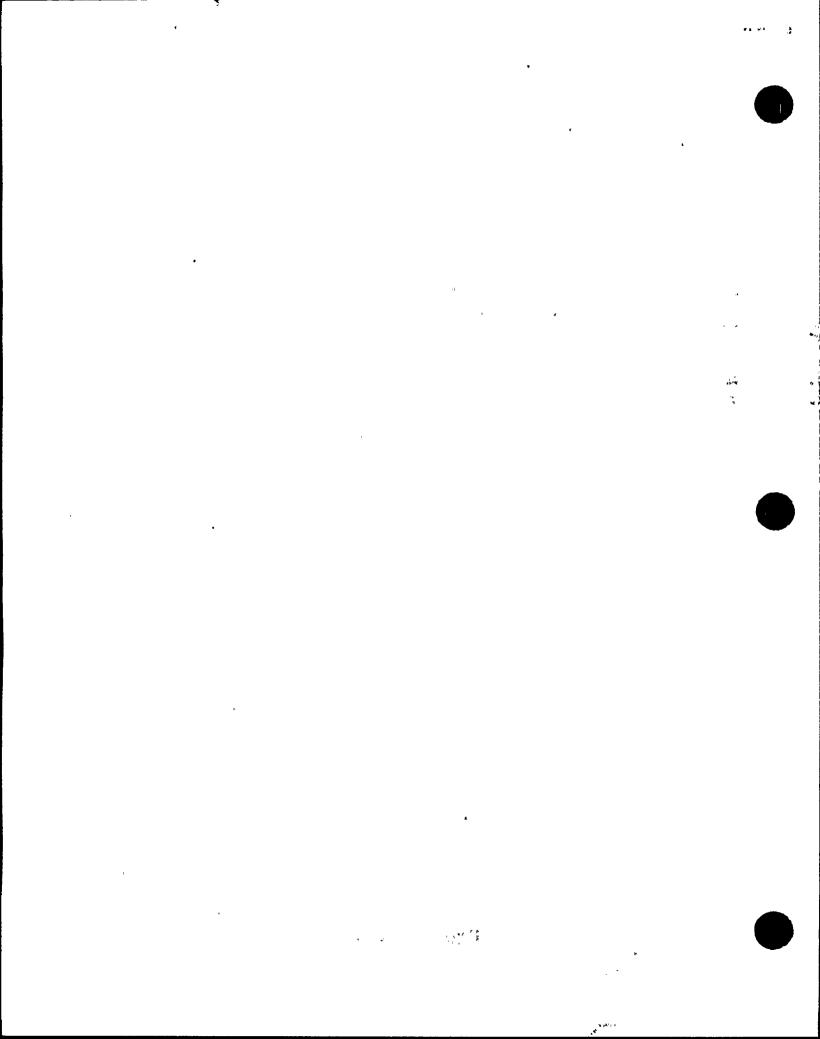
FORM No. 2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES.

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

1. Mysifactured & Certified by: General Electric Company Nuclear Field & Components Manufacturing (GENF&CM) 2117 Casile Hawno Road, Wilminioton: North Carolinia 28401 (Name and Address of New Certificate Bolder) (Name and Address of New Certificate Bolder) (Anamous Address of New Certif	A control of the second	1.
(Name and Address of NET Cartificate Bolder : (Name and Address of N Cartificate Bolder : (Name and Address of N Cartificate Bolder : (Name and Address of N Cartificate Bolder : (Name and Address of N Cartificate Bolder for completed nuclear component) (Name and Address of N Cartificate Bolder for completed nuclear component) (a) Constructed According to Drawing No: 768E534G008 Rev. of Deg. Prepared by D.L. Peterson (b) Description of Part Inspected: Control Rod Drive. Model & TRDB144FG005 (c) Applicable ASHC Code: Section III. Edition 1974; Addanda Date WT5. Case No. N207 1361-2 Class 1. 3. REMARKS: Standard part for use with Reactor. Hydrostalically tested at 1925 pst, min. (b) be a 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 ASHC Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NFI Certificate Holder for parts. An NFI Certification and Stress Report are not the responsibility of the NFI Certificate Holder for parts. An NFI Certification and Stress Report are not the responsibility of the NFI Certificate Holder for parts. An NFI Certification and Stress Report are not the responsibility of the NFI Certificate Holder for parts. An NFI Certification and Stress Report are not the responsibility of the NFI Certificate Holder for parts. An NFI Certification of the corponant Design Specification and Stress Report 1. Date: 07/29/92 Signed GF-NEBS-NEBS-CM-OA By State State of Authorization Expires: 8/16/33 Certification of Authorization No.: NPTN-1151 Cartification of Design for Appurtenance Design information on file at GF Company. San Jose, California Stress analysis report certified by Biom Hamberg Prof. Eng. State Calif. Reg. No. 15570 CC22A5253 Rev. 1 Design specification certified by Edward Yoshio Prof. Eng. State Calif. Reg. No. 15570 CC22A5253 Rev. 1 Design this certificate, neither the Inspector nor his employer makes any warranty,	1. Miguractured a Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENE	& CM)
Cartification of Part Inspected: Control Regularization Englar for Superinsease States and States a	2117 Casile Havne Road, Wilmington: North Carolina 28401	7
(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dog Prepared by D. L. Pelerson (b) Description of Part Inspected: Control Rod Drive, Model # 780B144FG005 (c) Applicable ASKE Code: Section III. Edition 1974; Addenda Date WT5. Case No. N207 1361-2 Class 1 3. REMARKS: Standard Dart for Use With Reactor. Hydrostatically tested at 1825 pst. min. (Brief description of service for which coopenant 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 ASKE Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification 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 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 Stress Report if the appurtenance is not included in the Component Design Information on file at GE Company. San Jose, California 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 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 North Carolina, and employed by Department of Labor, or State of North Carolina, have inspected the part of a pressure vessel described in this Partial Data Report on Gallon Appurence of Inspection in the State of Province of Inspection in the State Data Report on This employer shall be Habit in any manner for any personal injury or pr	MAINTACTURED for:	* ;
(a) Constructed According to Drawing No: 768E534G008 Rev 9 Deg. 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 W752. Case No. N207 1361-2 Class 1 3. REMARKS: Standard part for use with Reagns. Photostalically tested at 1825 pst. 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 ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the MP Certificate Holder for parts. An MP Certification Holder for appurtenances is the component Design Specification and stress Report are not the responsibility of the MP Certificate Holder for parts. An MP Certification Holder for appurtenance is not included in the component Design Specification and stress Report of the Asset Section 10 of the State Component Design Specification and Stress Report of the State of Authorization Expires: 8/16/93 Certification of Authorization No.: NPTN-1151 Certification of Design for Appurtenance Design information on file at GE Company. San Jose. California Stress analysis report certified by Biom Haabara Prof. Eng. State Calif. Reg. No. 15570 DC22A6253 Rev. 1 Design specification certified by Biom Haabara Prof. Eng. State Calif. Reg. No. MO18846 Certification of Shop Inspection 1. the undersigned, holding a valid commission by the National Board of Botler and Pressure Inspectors and/or the State or Province of North Carolina. Neve Inspected the part of a pressure vessel described in this Partial Data Report on State Onorth Carolina have Inspected the part of a pressure vessel described in this Partial Data Report on State Onorth Carolina have Inspected with this inspection. By signing this certificate, neither the Inspector nor his employer makes any warranty, exp	The state of the s	h,
(b) Description of Part Inspected: Control Rod Drive Model # TRDB144FG005 (c) Applicable ASME Code: Section III. Edition 1974 Addends Date WTS. Case No. N207 1361-2 Class 1. 3. REMARKS: Standard part for use with Reactor. Hydrostallogally tosted at 1825 psl. min. (2. Fidentification - Certificate Holder's S/N of Part : A5381 x 327 327 Nati Bd. No. N/A	
(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. Hydrostalically tosted at 1925 psl. 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 ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for partification Moder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report 17 the appurtenance is not included in the component Design Specification and Stress Report.) Date: 07/29/92	(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Peterson	74
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 partification kider for appurtenances is responsible for furnishing a separate Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for partification kider for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the corponent Design Specification and Stress Report). Date: 07/29/32 Signed GE-NEBG-NFSCM-OA By SCA Representive) Certificate of Authorization Expires: 6/16/93 Certification of Authorization No.: NPTN-1151 Certificate of Authorization 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. 1 Design specification certified by Blom Hambera Prof. Eng. State Calif. Reg. No. 15570 OC2A6254 Rev 1 Stress analysis report certified by Edward Yoshio Prof. Eng. State Calif. Reg. No. M018646 Certification of Shop Inspection 1, the undersigned, holding a valid commission by the National Board of Boliar 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. And state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the NSMC Code Section like Inspection. Furthermore, neither the Inspection por his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from connected with this inspection.		
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 ASR Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the MPI Certificate Holder for parts. An MPI Certification Molder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report in the component Design Specification and Stress Report). Date: O7/29/92	(c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75. Case No. N207 1361-2 Clas	s <u>1</u> .
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). Date: 07/29/92	3. REHARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min. (Brief description of service for which component was designed)	
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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 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.	Certification of Shop Inspection	B %
Date Inspector's Signature NC 1231, Ohlo, WC 3686 PA National Board, State, Province And No.	State or Province of North Carolina and employed by Department of Labor or State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 626, 272, and state that to the best of my knowledge and belief, the HPT 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	
	Date Inspector's Signature No. 1231. Ohlo. WC 3686 PA National Board, State, Province And No.	

*Supplemental sheets in form o. 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 71 of 148



5022-2798 // Н. НОЯМ ALST 2 АТТАСИ SHEET 3 OF 4 FORM N-2 (back:) WO # 94-10308-00

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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 WO # 94-10308-00

1. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)

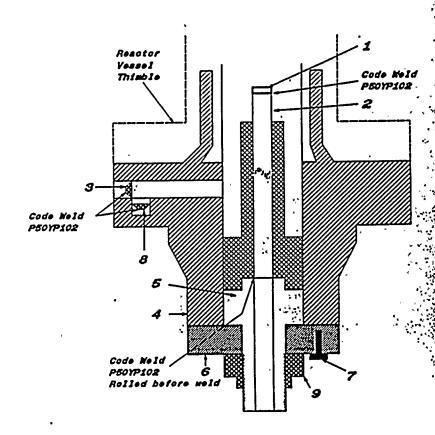
2117 Castle Hayne Road, Wilmington, North Carolina 28401
(Name and Address of MTT Certificate Bolder)

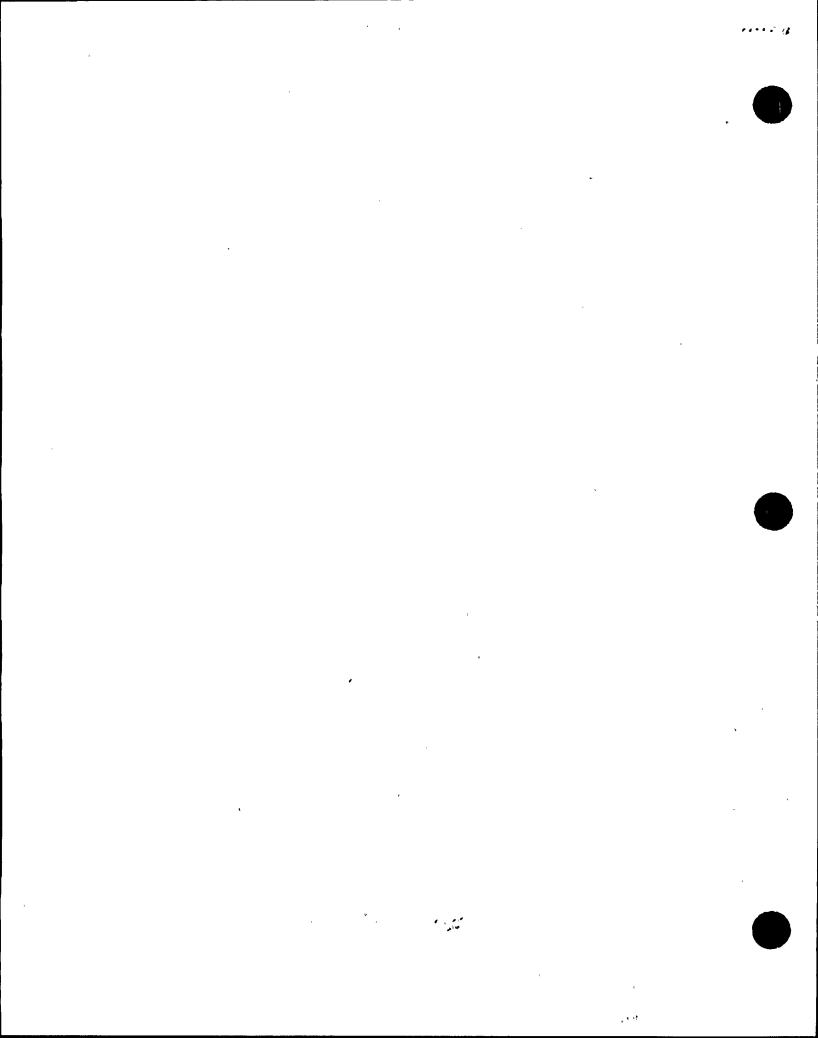
(b)	Manufactured for :	_TVA	Chattanooga, Tennessee 37402-2127
		(Name	and Address of M Certificate Holder for completed nuclear component

- 2. Identification Certificate Holder's S/N of Part : A5381 Natl Bd. No. N/A
 - (a) Constructed According to Drawing No: \$\frac{1768E534G008\text{Rev 9}}{2} Dug. 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. REMARKS: Standard part for use with Figactor, Hydrostatically tested at 1825 psl. min.
 (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 \$A312 - TP316 3/4' sch 40 - seamless pipe 0.113' wall thickness 1.065' max. dla.
- 3. Plug 159A1176P001 SA182 - F304 1/4" thick x 0.812" OD
- 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.
- 8. Ring Flange 114B5122P002, P003 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.
- 9. Nut 137C5934P001 XM • 19 SA479 1,30° thick x 2.62° dia.





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1. Owner TENNESS	erket St. Name	THURITY		Date Novem	ber 20	, 1994	
		402-2201		Sheet1_			
Chattai	nooga, TN 37 Address	402-2001					
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2			
				Work Order	9/-103	808-01	
P.O. BOX 200	00; Decatur,	AL 33003-	2000	Repair Orga	nization P	.O. No., Job No.,	etc.
3. Work Performed by	Nuclear Ene	rgy Servic	es	Type Code Symbol	Stamp	N/A	
		Name		Authorization No.		N/A	
Shelter Rock R	oad; Danbury, Cl Address	06810		Expiration Date		I/A	
4. Identification of Sys	•			ive			
4. 10011(11)(01)(01) 07 07	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
5. (a) Applicable Cons	truction Code (see	Remarks) 19	Edition,	<i>F</i>	\ddenda,_		_Code Case
(b) Applicable Edit	ion of Section XI Util	lized for Repairs	or Replacement	s 19 <u>86</u>			
6. Identification of Co	mponents Repaired o	r Replaced and F	Replacement Co	mponents			
					1		
					Ī		ASME
			N-471			Repaired,	Code Stamped
Name of	Name of	Manufacturer	National Board	Other	Year	Replaced,	(Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
		•		•		!	
Control Rod	General	55	· · · · · · · · · · · · · · · · · · ·	P/N	 	 	
Drive @ location	Electric	A4442	N/A	768E534G008	1992	Replacement	Yes
06-19			` `				
Bolting (8 ea)	Vitco			P/N	-		
for CRD location	Nuclear	N/A	N/A	137C9293P001	N/A	Replaced	No
06-19	Products, Inc			Hr # 61811		 	
		-					
l							
				nt Control Re			m and
7. Description of Work	_bolting_mat	erial on C	<u>Control Ro</u>	d Drive Mech	anism i	flange.	
8. Tests Conducted:			ominal Operatin				
	Other Pressure_	N/Apsi	Test Temp	N/AF			
NOTE: Cumplemen	tal sheets in form of	liete ekstahan a	or drawings may	haused provided (1	\ siza ie RU	in. x 11 in (2)	Informa-
tion in items 1 thre	tal sneets in form of ough 6 on this report	is included on (each sheet, and	(3) each sheet is nu	mbered an	d the number of	sheets is
recorded at the top			-				

(12/82)

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

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed
	Applicable Manufacturer's Data Reports to be attached
	per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the
	inspection boundary.
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric
	Installation Specification 22A2125.
Г	CERTIFICATE OF COMPLIANCE
l	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
l	
1	ASME Code, Section XI.
	Type Code Symbol Stemp
	Type Code Symbol StampN/A
l	Certificate of Authorization No. N/A Expiration Date N/A
l	Certificate of Authorization No. N/A Expiration Date N/A
l	Signed Hillin I Sustem ENGINEER Date MOVEMBER 20 1994
	Signed TITUS Y VILLEN, IN OXSTEM ENGINEER Date NOVEMBER CO, 19 94 Ovyner or Owner's Designed, Title 10/04
ᆫ	POST 11/20/04 ·
Г	
l	CERTIFICATE OF INSERVICE INSPECTION
l	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
ı	or Province of TENN. and employed by HSBIER of
	HART FORD, CT have inspected the components described in this Owner's Report during the period 7/6/99 to 1/23/99, and state that
	in this Owner's Report during the period $\frac{7/6/99}{1000}$ to $\frac{11/23/99}{1000}$, 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
ĺ	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.
	a_{i} a_{i} a_{i} a_{i}
	Inspector's Signature Commissions <u>VB6908</u> TN 3135 National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
	Date
	17/

SHEET 2 of 4

FORM NIS-2 ATTACHMENT

WO # 94-10308-01

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. Manufacture & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
2117 Castle Havne Road. Wilmington. North Carolina 28401 (Name and Address of NPT Certificate Holder)
(b) Mchufactured for : TVA Chamanooga, Tennessee 37402-2127 (Name and Address of N Certificate Holder for completed nuclear component)
2. Identification - Certificate Holder's S/H of Part :
(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Peterson
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 psl. 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: 09/10/92 Signed GE-NEBG-NF&CM-OA By CQA Representive)
Certificate of Authorization Expires: 6/16/93 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. l Design specification certified by <u>Blorn Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Callf.</u> Reg. No. <u>M018646</u>
Cartification 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 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 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.
9/10.1992 Juome P Evere NC 1231. Ohlo. WC 3686 PA 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".

5022.5191

SHEET 3074 FORM NIS-2 ATTACHMENT WO # 94-10308-01

FORM N-2 (back)

Iten	ns 4-8 [ncl. to b	e complete	d for sin	gle wall ve	ssels, jackei	s vessals, or	shells of heat	exchangers.	
4.	Shell:	Hateria i	1 nd & Spec. No.)	.S (Mh. of Reng	Nominal Thickness po Specified)	In. A	errosion Nowance	in. Dia ft	In. Length	ft in
5.	Seams:	Long			н.т	· · · · · · · · · · · · · · · · · · ·	R.T.	· · · · · · · · · · · · · · · · · · ·	Efficiency _	x
		Girth _			н.т.¹ <u> </u>		R.T.		No. of Cours	es <i>f</i>
6.	Heads:	(a) Mate	rial						T.S	
(a) (b)	Locatio Bottom,	n (Top Ends)	Thickness	Crown Radius	Knuckle Radius	Ratio	Concial Apex Angle		Flat Side Diameter (co	
(0)	If remo	vable, bo	lts used _	*******			Other faster	ning	lescribe or attach sketch)	
7.	Jacket	Closure:		•	i, Spec. No., T.S.	•				· . · · · · · · · · · · · · · · · · · ·
		2						_	eight Impact	
						1 81	575	_ F at tem	o of	F
			completed							
9.	Tube Sh	eets: St	ationary.	Haterial	(Kind & Spi	Dia	(Subject to preseu	Thickness _ re)	in. Attachm	ent (Welded, Bolled)
							_			
10.	Tubes:	Material			0.0	in. Thic	kness	_ Inches or gage, Ki	mber	(Sr. or U)
Item	s 11 -	14 incl.	to be comp	leted for	inner chamb	ers of jacke	ted vessels,	or channels of h	eat exchangers.	
11.	Shell:		T.			in. Al	rrosion lowance	in. Dia ft	In. Length	ft in
12.	Seams:	Long					R.T.		Efficiency _	x
		Girth _			н.т.'		R.T.		No. of Course	es
3.	Heads:	(a) Hate	rial			T.S	(b) X	sterial	T.S	····
(h)	Top, bot	tion tom, ends			Radius	Ratio	Apex Angle	Hemispherical Radius	Diameter (co	to Press.
•	If remo	vable, bo	its used (.)	(ь)	(c)	Other	fastening	(Describe or at	ach sketch)
								Drop W Charpy	eight Impact	ft-1b
14.	Dos ign	2 pressura	*		·	ps1 at		°Fat tem	p of	°F
Item	s below	to be co	mpleted fo	all vess	sels where	applicable.				
15.	Safety	Valve Out	lets: Num	oer		Size		Locati	on	
16.	Nozz les	: Purpose (1 Outlet, Dre		mber	Dia, or Size	Туре	Material	Thickness	Reinforcement Material	How Attached
	Inspect Opening					Size Size		Location		
18.	Support	s: Skir	t		(Number)	Legs	(Number)	ther (Describe)	Attached _	(Where & How)
	1 - # Post	weld Heat-Tree	Ned.		ol temperature w		· ·	•====		•

10 mm. 10 mm mm. 0369

FORM NIS-2 ATTACHMO SHEET 4 OF 4 WD # 94-10308-01

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. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)

2117 Castle Hayne Road, Wilmington, North Carolina 28401

(Neme and Address of NET Certificate Bolder)

(b) Manufactured for: TVA Chattanooga, Tennessee 37402-2127

(Name and Address of B Certificate Holder for completed nuclear component)

2. Identification - Certificate Holder's S/N of Part : A4442 Nati Bd. No. N/A

(a) Constructed According to Drawing No: 768E534G008 Roy 9 Dag. Prepared by D. L. Peterson

(b) Description of Part Inspected: Control Rod Drive Model # 7RDB144FG005

(c) Applicable ASKE Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class 1

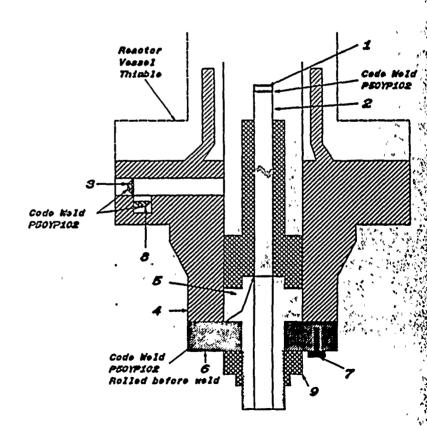
3. REHARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.

(Brief description of service for which component was designed)

Sheet 2 of 2

- 1. Cap 16689274P001 SA182 - F304 3/8° thick x 1 1/16° OD
- 2. Indicator Tube 16689313P001 SA312 - TP316 3/4" sch 40 - scamisss pipe 0.113" wall thickness 1.065" max, dia.
- 3. Plug 159A1176P001 SA182 - F304 1/4° thick x 0.812° OD
- 4. Flango 919D610P001 (719E474) SA182 - F304 3.37' thick x 9 5/8' OD
- 5. Baso 137C5311P001 SA182 • F304 7/8* thick x 2.875* dla.
- 6. Ring Flango 114B5122P002, P003 137CB151P001, P002 SA182 - F304 1* thick x 5.0* OD x 1,75* ID
- 7. Cap Scrow 117C4516P002 SA193 • 86 6 oz. 1/2° diz. on 4 1/8° bolt circle
- 8. Plug 175A7961P001 SA182 • F304 0.38° thick x 1.307° dia.
- 9. Nut 137C5934P001 XM - 19 SA479 1,30° thick x 2.62° dia.

2 St 4 12



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

					•					
1. Owner TENNESS	1. Owner TENNESSEE VALLEY AUTHORITY Date November 19, 1994									
1101 Ma	arket St. Name									
	nooga, TN 37	402-2801		Sheet 1 of 4						
	Address			Sneet - oi -						
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2						
2. Plant	Name			Oint						
P 0 Box 200	M. Decatur	AT. 35609-	-2000	Work Order	94-10	308-02				
1.0. DOX 200	P.O. Box 2000; Decatur, AL 35609-2000 Work Order 94-10308-02 Address Repair Organization P.O. No., Job No., etc.									
	Nuoloon Fro	marr Comunic	.00	Type Code Symbol	. .	NI/A				
3. Work Performed by	Nucrear Ene	Name	es	Type Code Symbol	Stamp	N/A				
0114 D1- D	d. Dh			Authorization No Expiration Date		11/A				
Sherter Rock R	oad; Danbury, Cl	r 00910		Expiration Date	1	N/A				
	**	05 0	1 2 1 2 1							
4. Identification of Sys	stem System	85, Contro	or Rod Driv	<u>re</u>						
5. (a) Applicable Construction Code (see Remarks) 19 Edition, Addenda, 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)			
Control Rod	General			P/N	<u> </u>					
Drive @ location	Electric	A5486	N/A	768E534G008	1992	Replacement	Yes			
10-23	BIECLITC									
					 	·				
Bolting (8 ea)	Vitco			P/N		 				
for CRD location	Nuclear	N/A	N/A	137C9293P001	N/A	Replaced	No			
		N/A	N/A	HT # 61811	M/A	Replaced	110			
10-23	Products, Inc			111 1/ 01011			į į			
				<u> </u>	٠, .	<u> </u>				
	Replaced Co	de Class I	equivaler	t Control Ro	od Driv	ve mecnanıs	m and			
7. Description of Work	bolting mat	erial on C	Control Roc	Drive Mecha	anism 1	lange.				
8. Tests Conducted:	Hydrostatic Pn Other Pressure	eumatic No	ominal Operating Test Temp	Pressure X N/A °F						
tion in items 1 thro	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

FORM NIS-2 (Back)

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed							
	Applicable Manufacturer's Data Reports to be attached							
	per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the							
	inspection boundary.							
	oplicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.							
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric							
	Installation Specification 22A2125.							
Г	CERTIFICATE OF COMPLIANCE							
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the							
ı	ASME Code, Section XI.							
l	Addit Codd, Social Ali							
	Type Code Symbol Stamp							
	Type Code Symbol StampN/A							
	Certificate of Authorization No. N/A Expiration Date N/A							
	Certificate of Authorization No. 217.11 Expiration Date 217.11							
	Signed Tillet System ENGINEER Date NOVEMBER 19 , 19 94							
	Signed TOWNer's Designee, Title Date NOVEMBER 17 , 19 77							
<u> </u>								
	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 TENN: and employed by HSB I SI							
	HART FORD CT							
	HART FORD, CT have inspected the components described in this Owner's Report during the period 7/6/94 to 11/23/94, 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.							
	11/ T-10/							
	Commissions NB6908 TN 3/35 Inspector's Signature Commissions National Board, State, Province, and Endorsements							
	inspector a digitalitie ivational Board, State, Province, and Endorsements							
	1407 22 24							
	Date							

Print see . . .

(67/90)

FORM NIS-2 ATTACHMENT

SOZZ. 4289

WO # 94-10300-02

AM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURITENANCES*

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

1. Janufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Name and Address of NPT Certificate Holder)
(b) Manufactured for : TVA Chattanooga, Tennessee 37402-2127 (Mace and Address of M Certificate Bolder for completed nuclear component)
2. Identification - Certificate Holder's S/N of Part : A5486 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> , <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 1 of 2
We certify that the statements in this report are correct and this vesse) 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).
Oate: 9/14/92 Signed <u>GE-NEBG-NF&CM-QA</u> By SC QL Representive)
Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPTN-1151
Certification of Design for Appurtenance
Design information on file atGE Company, San Jose, California
Stress analysis report on file at <u>GE Company</u> , San Jose, California
DC22A6253 Rev. 1 Design specification certified by <u>Biorn Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</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 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
*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".
Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

Page 81 of 148

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FORM NIS-2 ATTACHMENT 3 SHEGT 3 OF 4 WO# 94-10308-02

FORM H-2 (back)

	11: Mate	erial	 T.S.	Nominal Thickness	Co.	rrosion	n. Dia. ft	, in 1	Length ft !
		(Kind & Spe	ic. No.) (Min. of Ren	rge Specified)					1: /
. Sea				•					ency
									Courses
									.S
8ot	ton. End:	Top is) Thick	Crown kness Radius	Radius	Elliptical Ratio	Apex Angle	Hemispherical Radius		Side to Press. (conv. or conc.)
4) —	Pennin's		ed .			Other faster	uing.		
			{ Meteri	el, 8pec. No., T.S.	. Size Humber)	vener Tästöi	ning	escribe or atlach s	Heeth)
. JAC	U 10\$		(0	lescribe as ogee a	nd wold, bur, etc. # E		f botts, describe or stretch	h)	
		9					0		ft-1b
3. Des	ign press	sure	1250	ps	i at	575	_°F at temp	of	°F
			leted for tube						
. Tub	e Sheets:	: Stationa	ry. Haterial	18	Dia.	(Richland to	Thickness	in. At	ttachment (Welded, Boiled)
		Floating	. Material	QR & DRUKIJ	Dia.	·	Thickness	in. At	ttachment
). Tub	es: Hate	erial		0.0	in. Thick	kness	, Inches or gage. Hu	mber	Type
ta	1 = 14	201		. (10P2 - 6 1 1	had some "	n-phan-1-	194	(Str. or U)
cons I	14 11	iici. to be	completed for				or channels of he	was exchange	
		(FUnd & Spec	or word (water or water	ge specined)	in. All				Length ft in
. Sear				•					ency*
									Courses
. Head	ds: (a)	Haterial _			T.S	(b) На	iterial	T.	.s
a) Top	Location		Crown cness Radius	Radius		Concial Apex Angle	Radius	Dismeter	(conv. or conc.)
(b) Chai	removab l				(c)	Other	fastening	/0	
			•				Drop We		tbe or attach eletch)
							Charpy	Impact	
		2					٧_	•	-
							Fat temp) of	F
tems b	elow to l	be complete	d for all ves	sels where	applicable.				
items be	elow to l	be complete e Outlets:		sels where	applicable.		Fat temp		F
tems be	elow to lety Valve	be complete e Outlets:	d for all ves	sels where	applicable. Size	Meterial			F
tems be	elow to lety Valve	be complete e Outlets: pose (iniet,	ed for all ves	isels where	applicable. Size		Locatio	on	F F
Safe Noz	elow to it	be complete e Outlets: rpose (iniet, ust Drain) Hanholes,	Number	Die or Size	applicable. Siza Type Size		Location	Petriforcer Meterial	ment How Attached
. Safe . Noz:	elow to lety Valve	be complete e Outlets: rpose (Inlet, tiet, Drain)	Number	Die or Size	applicable. Siza Type Size	Mesoriel	Locatio	Petriforcer Meterial	ment How Attached
tems be. Safe. Noz:	elow to lety Valve zles: Pun Out	be complete e Outlets: pose (iniet, tiet, Drain) Hanholes, Handholes, Threaded,	Number	Dia or Size	Size Size Size Size Size Size Size Legs	Mesoriel L L Ot	Thickness Cocation Cocation Cocation Cocation Cocation Cocation Cocation	On	ment How Attached
. Safe . Noza	elow to lety Valve zles: Pun Out	be complete e Outlets: pose (iniet, tiet, Drain) Hanholes, Handholes, Threaded,	Number	Die, or Size	Size Size Size Size Size Size Size Legs	Mecoriel Line L	Thickness Cocation Cocation Cocation	On	ment How Attached

P350 07

:

1. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GE NF & CM)

2117 Castle Havne Road, Wilmington, North Carolina 28401 (Name and Address of MPT Certificate Holder) Year

(b) Hanufactured for : _TVA Chattanooga: Tennessee 37402-2127:

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

and the state of

11 m + 11

2. Identification - Certificate Holder's S/N of Part : A5486 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 768E534G008 Rev 9 Deg. Prepared by D. L. Peterson

(b) Description of Part Inspected: Control Rod Drive Model # 7RDB144FG005

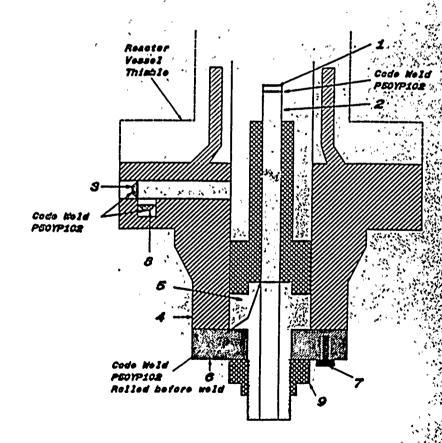
(c) Applicable ASHE Code: Section III . Edition 1974 Addende Date W75 Case No. N207 1361-2 Class 1

3. REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl min.

(Brief description of service for which component was designed.)

Sheet 2 of 2

- 1. Ccs 16639274P001 SA102 - F304 3/8" thick x 1 1/16" OD
- 2. Indicator Tubo 16689313P001 SA312 - TP310 1/4° cch 40 · accmisso pipo 0.113" was thickness LOSS mer da
- 2. Phy 150A1170P001 SA102 - F304 1/4" Date # 0.812" 00
- 4. Rango 9100010P001 (719E474) SA102 - /304 1 17 CHE # 8 5/0" CO
- 5. Casa 137C\$311P001 8A182 - F304 7/0" Chick # 2.075" Cha.
- 6. Farg Franço 114B3122P002, P003 137CB151P001, P002 SA162 - F304 P Ches & 8.0' 00 x 1.75' 10
- 7. Con Sorew 117C4516F002 SAICO - CO 0 00 1/7 00 00 4 1/8 box circle
- A. FRED 175ATES IPODI 5A102 - F304 0.37 Citch # 1.307 Cla
- 8. MA 137C3934P001 XXI - 19 SA479 1.30" Date : 2.62" dia



Page 83 of 148

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Page _____0

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 November 19, 1994									
1101 Ma	arket St. Name	÷							
	nooga, TN 37	402-2801		Sheet1of4					
	Address			211691	,ıı				
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2					
z. Plant Drowns	Name	2 2 2 2 2 1 2		Ont					
P 0 Roy 200	n. Decatur	AT. 35609-	-2000	Work Order	94-10	308-03			
F.O. DOX 200	00; Decatur,	AB 33003	2000			.O. No., Job No.,	etc.		
3. Work Performed by	Nuclear Ene	Name	es	Type Code Symbol	Stamp	N/A			
Challana Daala D	and Dankous M	06010		Authorization No.	N	/A			
Shelter Rock R	oad; Danbury, Cl	1 00910		Expiration Date		A			
		05 0 .	1 D. 1 D 1.						
4. Identification of Sys	stem <u>System</u>	85, Contro	or Rod Dri	ve					
5. (a) Applicable Cons (b) Applicable Editi	truction Code (see	Remarks) 19	Edition,	A s 19 <u>86</u>	.ddenda,	•	_Code Case		
6. Identification of Co.	mponents Repaired o	r Replaced and F	Replacement Con	nponents					
	·								
:			National	:		Repaired,	ASME Code Stamped		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Replaced, or Replacement	(Yes or No)		
Common Dad	General			P/N	 	 			
Control Rod		A3831	N/A	768E534G008	1992	Replacement	Yes		
Drive @ location_ 10-31	Electric								
10-51									
D-144 (0)	Vitco			P/N			 		
Bolting (8 ea)		37 / A	NT/A	137C9293P001	N/A	Replaced	No		
for CRD location	Nuclear	N/A	N/A	HT # 61811	I N/A	Kepraced	110		
10-31	Products, Inc			HI # 01011	}	1			
				ļ	ļ	 	<u> </u>		
					 	 			
					<u> </u>	ļ <u></u>	لا		
	Replaced Co	de Class I	l equivale	nt Control Re	od Dri	ve Mechanis	sm and		
7. Description of Work	bolting mat	erial on (Control Ro	d Drive Mecha	anism :	flange.			
		•							
8. Tests Conducted:	Hydrostatic Pn	eumatic No	ominal Operating	Pressure XX	•				
	Other Pressure_		Test Temp						
	··· 🗀 ·······								
NOTE: Sunniamon	tal sheets in form of	liete ekotohoo o	or drawings may	he used provided (1)	size ie 84	in. x 11 in (2) i	nforma-		
tion in Itome 1 thre	unh 6 on this renor	is included on	each sheet, and	(3) each sheet is nur	nbered an	d the number of	sheets is		
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, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed
	Applicable Manufacturer's Data Reports to be attached
	per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the
	inspection boundary.
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric
	Installation Specification 22A2125.
	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.
	ASINE Code, Section At.
	•
	Type Code Symbol Stamp N/A
	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Holly Childret, System ENGINEEP Date NOVEMBER 19, 1994
	Owner's Designeo, 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 TENN and employed by HSBI E I
	HART FORD, CT have inspected the components described
	HART FORD, CT have inspected the components described in this Owner's Report during the period 7/6/44 to 11/23/94, 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.
	111. T TILL NO. 1000 TUZIZ
	Inspector's Signature Commissions W6908 703/35 National Board, State, Province, and Endorsements
	Mational Board, State, Frovince, and Endotsements
	Date NOV. 23 19 94

8022.530

FORM NIS-2: Armaine SHEET 2 NF 4 WO # 94-10308-03

FORM J-2 NFT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCE required by the Provision of the ASHE Code Rules, Section III, Div. I	Storie
1. He factured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF 2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Rose and Address of MFT Certificate Bolder)	& CM)
(Name and Address of N Certificate Holder for completed nuclear component)	
2. Identification - Certificate Holder's S/N of Part : A3831 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: <u>Control Rod Drive</u> . Model # 7RDB144FG005	
	1
(c) Applicable ASME Code: Section III. Edition 1974. Addenda Date W75. Case No. N207 1361-2 Class	18
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	
SHOCK I	
We 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 ASME Code Section III. (The applicable Designed Specification and Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appur is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not include the component Design Specification and Stress Report).	Stress tenances
Date: 09/10/92 Signed GE-NEBG-NF&CM-QA By SC QA Representive)	
Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPTN-1151	
Cortification of Design for Appurtenance	
Dosign information on file atGE Company, San Jose, California	1
Stress analysis report on file atGE Company, San Jose, Calliomia	
DC22A6253 Rev. 1 Dasign specification certified by <u>Blorn Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>	,
DC22A6254 Rev 1 Stross analysis report certified by <u>Edward Yoshlo</u> Prof. Eng. State <u>Callf.</u> Reg. No. <u>M018646</u>	
. Cortification of Shop Inspection	. 18
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or t State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 3/25.192 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,	. .
concorning 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.	
9/10 . 1992 Jum P Church NC 1231. Ohlo. WC 3686 PA Dato National Board, State, Province And No.	1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m

*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". (07/90)

> Page 86 of 148

Page _____ of . . _ _ .

1082.550a

FORM NIS 2 ATTACHMEN SHEET 3 & F 4 WO:#94740308-03

THE STATE OF THE PARTY OF THE PRESENCE OF THE PROPERTY OF THE PARTY OF

					The state of the s		.,
-110	=== 4-8 Incl. to be completed	for single wall vo	ssals, jacket	s vessels, or s	shells of heat o	exchangers.	
4.	Shell: MaterialT.S (Mnd & Spot. No.) (I	Florainal Thickness An. of Pange Specifies)	i In. Al	rrosion () in linearce	n Dia ft.	in. Ler	ogth ft
5.	Seams: Long	H.T	-			_ Efficienc	ey
	Girth	н.т.		R.T.	74	No. of Ca	ourses
6.	Heads: (a) Material	Crown Knuckle	T.S	(b) Hat	tersal	T.s.	
(a)	Location (Top Bottom, Ends) Thickness	Radius Radius	Ratio	Apex Angle	Radius	Flat S Diameter (ide to Press.
7.	Jacket Closure:	(Meterial, Spec. No., T.S.	. Size Number)		(De	secribe or attach shel	ch)
		(Describe as oges a	nd wold, bar, etc. If I	ber give dimensions, if t	white the efferency of the] ight	
	2				Charpy	Impact	ft-1b
8.	Design pressurs	1250 ps	1 at	575	. F at temp	of	°F
	ms 9 and 10 to be completed f						
9.	Tube Sheets: Stationary, H	aterial	Dia	I Subject to commune	_ Thickness	In. Atta	chment(Welded, Boiled
	Floating. H	aterial	D1a	. ———	Thickness	in. Atta	chment -
10.	Tubes: Material	0.0	in. Thic	kness	inches or gage. Hu	mber,	Type(st. or U)
	ms 11 - 14 incl. to be comple						
		Nomina 1	Co	rrosion			
11.	Shell: Haterial T.S (Kind & Spec. No.) (A	, Thickness lin. of Range Specified)	in. Al	lowance in	. Dia ft.	in. Len	gth ft 1
12.	Seams: Long	н.т. 1		R.T		_ Efficienc	<u>y</u> x
	Girth	1					
13.	Heads: (a) Material						
(a)	Location Thickness Top.bottom,ends	Radius Radius	Ratio	Concial Apex Angle	Hemispherical Radius	Flat S Diameter (ide to Press. conv. or conc.)
(b)	Channel If removable, bolts used (a)				fastening		
	11 10.010010, 00100 0000 (2),					(Describe o	or attach sketch)
					Charpy	Impact	
14.	Design pressure		psi at		Fat temp	of management	
ite	me helaw to be completed for	All vassals where					
15.	Safety Valve Outlets: Number	r	Size		Location	n	
16.	Nozzłas: Purpose (Inlet, Outlet, Orain) Numi	oor Die or Size	Туре	Material	Thickness	Reinforcemen	How Attached
						,	
							-
17.	Inspection Hanholes, No.		Size		cation		
	Openings: Handholes, No. Threaded, No.		Size		cation		~
18.	Supports: Skirt (Yee or No)	Lugs	Legs	Oth	er(Describe)	Attache	(Where & How)
	(• • • • • • •	•	•	•		•

1 - # Postweld Heat-Treated.

Page <u>87</u> of <u>148</u>

^{] -} Ust other internal or external pressure with coincident temporature when applicable

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

Hanufactured & Certified by General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM) 2117 Castle Hayne Road. Wilmington: North Carolina 28401

Chattanooga Tennessee 37402-2127

(Name and Address of R Certificate Holder for completed nuclear component)

2. Identification - Certificate Holder's S/N of Parts: A3831

(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg Prepared by D. L. Polorson

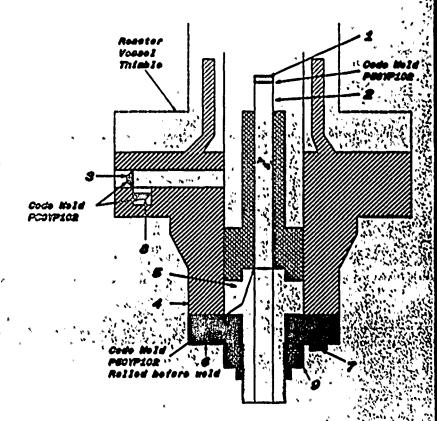
(b) Description of Part Inspected: Control Rod Drive Model # 7RDB144FG005

(c) Applicable ASME Coda: Section III', Edition 1974 Addenda Date W75; Case No. N207 1361-2 Class

3. REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min.
(Brief description of service for which component was designed)

Sheet 2 of 2

- 1. Cap 166B9274P001 5A 182 - F304 3/8" thick x 1 1/10" OD
- 2. Indicator Tubo 166B9313P001 SA312 - TP316 3/4° sch 40 - scemissa pipo 0.113° wall thicknoss 1.005° max. dia.
- 1. Plug 158A1176P001 SA182 - F304 1/4" stick x 0.812" OD
- 4. Flango 910D\$10P001 (719E474) 1.37" thick x 9 8/0" OO
- 5. Bass 137C3311P001 SA182 - F304 7/0" thick x 2.078" dia
- O. Ring Flange 114B5122P002, P003 137C0151P001, P002 SA102 - F304 1" Stilch x 8.0" 00 x 1.75" 10
- 7. Cap Scrow 117C4516P002 0 ca. 1/2" dia on 4 1/8" box circle
- 8. Plug 178A7001P001 8A102 • F304 0.33' trick x 1.307' dia.
- D. Nut 137C5934P001 XM - 19 SA479 1.30° thlok x 2.62° dla.



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With Said

"7" 1" »

Page_of

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

		·					
1. Owner_TENNESS	SÉE VALLEY AU	THORITY		Date Novembe	er 19,	1994	
1101 Ma	arket St. Name			<u></u>			
Chattar	nooga, TN 37	402-2801		Sheet 1	of 4		
	Address						
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2			
	Name						
P.O. Box 200	00; Decatur,	AL 35609-	-2000	Work Order	94-10	308-04 .O. No., Job No.,	
				•			etc.
3. Work Performed by	Nuclear Ene	rgy Servic	es	Type Code Symbol	Stamp	N/A	
Challer Dagle D	ands Danbuums C	r 06010		Authorization No.	M	N/A /^	
Sherter Rock R	oad; Danbury, C	1 00010		Expiration Date	14	/ A	
4. Identification of Sys	System	85 Contro	I Rod Dri	170			
4. Identification of Sys	tem <u>byscem</u>	os, concre	OI ROU DII	ve			•
5. (a) Applicable Cons	truction Code (See	Remarks) 19	Edition	Δ	ddenda		Code Case
	on of Section XI Uti						_0000 0030
(b) Applicable Editi		neco tor respons	0	<u> </u>			
6. Identification of Co	mponents Repaired o	r Replaced and F	Replacement Co.	mponents			
				·			
						-	ASME Code
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	Stamped (Yes
Control Rod	General			P/N			
Drive @ location		A4255	N/A	768E534G008	1992	Replacement	Yes
10-35							
Bolting (8 ea)	Vitco		_	P/N			
for CRD location	Nuclear	N/A	N/A	137C9293P001	N/A	Replaced	No
10-35	Products, Inc			HT # 61811			
					<u> </u>	ļ	
					 		
	7 - 1 3 0	1. 01		nt Control D	od Dad	vo Moohania	m and
				nt Control R			siii anu
7. Description of Work	bolting mat	erial on (control Ko	d Drive Mech	anism	rrange.	
	Hydrostatic Pn Other Pressure		ominal Operating Test Temp				
NOTE: Supplemen tion in items 1 thro recorded at the top	ough 6 on this report	lists, sketches, o	or drawings may each sheet, and	be used, provided (1 (3) each sheet is nur) size is 8½ nbered an	in. x 11 in., (2) i d the number of	nforma- sheets is

(12/82)

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

FORM NIS-2 (Back)

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed							
	Applicable Manufacturer's Data Reports to be attached							
	per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the							
	inspection boundary.							
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.							
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric							
	Installation Specification 22A2125.							
	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							
ĺ	ASME Code, Section XI.							
ĺ	Admit doug, decitor Art							
ĺ								
	Type Code Symbol StampN/A							
	Type Code Symbol Stamp							
	Certificate of Authorization No. N/A Expiration Date N/A							
	Signed Hills T. SYSTEM ENGINEER Date NOVEMBER 19, 1994							
	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 TENN and employed by HSBIEI							
	HARTFORD, CT have inspected the components described							
	in this Owner's Report during the period 7/6/44 to 11/23/44, and state that							
	in this Owner's Report during the period to 4777, 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.							
	All T Tool Allierd The 2120							
	Inspector's Signature Commissions NB6908 TN 3135 National Board, State, Province, and Endorsements							
l	Inspector's Signature National Board, State, Province, and Endorsements							
l	Aug. 22							
	Date NW. 23 19 94							

SHEET 2 of 4

FORM NIS-2 ATTACHMENT

WO # 94-10300-04

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

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

1. Manufactured & settified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Name and Address of MPI Certificate Bolder)
(b) Many sctured for : TVA Chattanooga Tennessee 37402-2127 (Neme and Address of M Certificate Holder for completed nuclear component)
2. Ide ti/cation - Certificate Holder's S/M of Part : A4255 Nat'l Bd. No. N/A
(a) onstructed 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 <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 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: 09/10/92 Signed GE-NEBG-NF & CM-QA By (NPT Certificate Bolder)
Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : 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>
DC22A6253 Rev. 1 Design specification certified by <u>Blorn Haaberg</u> Prof. Eng. State <u>Callf.</u> Reg. No. <u>15570</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 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 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.
9/10 1972 June Comme NC 1231. Ohio. WC 3686 PA 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". (07/90)

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was the same of the

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FORM NIS-2 ATTACHMENT SHEET 3 6F4 WD # 94-10308-04

FORM N-2 (back

Ito	ms 4-8	Incl. to b	e completed	for sing			s vestels, or	shells of heat	exchangers.	
										th ft In-
										x
		Girth			1					
6.	Heads:	(a) Hate	rial					iterial		
,(a), (b)	Location,	on (Top Ends)	Thickness	Crown		Elliptical	ž.	Hemispherical	Flat Sie	Δ'
	If remo		lts used	/ Matada	Saw No T3	Size Number }		ing	escribe or attach sketch	
7.	Jacket	Closure:		(00	erribe es cres s	oduald has atc. If	her obes dimensions. I	l bolts, describe or sketch Onop Vi	.)	,
								Orop Wi Charpy F at temp	Impact	
						1 81	3/3	_ r at tem) or	
			completed			01-		Thickness	10 444	
э.	1006 31									
10	Tubes	r II	pating.	uazatiai.		U18	·	INICKNESS	IN. Attacr	ment
10.	10063:	naterial			0.0	in. inic	Kness	inchee or gage. In the	moer	Type(Sv. or U)
Ite	ns 11 -	14 incl. (to be compl	eted for	inner cham	bers of jacke	ted vessels, o	r channels of he	at exchangers.	
11.	Shell:	Naterial (Kr	T. id & Spec. No.) (S. Min. of Range	Hominal Thickness Specified)	in. Al	rrosion lowance i	n. Dia ft.	in. Lengt	h ft in.
12.	Seams:	Long			н.т.∫		R.T		_ Efficiency	x
		Girth			н.т.՝		R.T		_ No. of Cour	363
13.	Heads:	(a) Hate	rial			T.S	(b) Ha	terial	T.S	
(a)	Top, bot		Thickness		Radius	Ratio	Apex Angle	Hemispherical Radius	Diameter (C	de to Press.
(5)	If remo	vable, bo	its used (a)	<u>(a)</u>	(c)	Other	fastening	/December of	attach skelch)
			•		•			Orop Ve	J-LA	ft-1b
		2						charpy	impact	TE-10
						psi at		Fat temp	or	F
						applicable.				
	-		lets: Kumb	er		Size		Locatio		
16.	Hozz les	Dutlet, Drai	•	mber	Dia. or Size	Туре	Material	Thickness	Fieldorcement Material	How Attached
17.		ion Manh	oles. No.			Size	!	ocation		
	Opening		holes, Ko.			Size		ocation		
18.	Support	s: Skir	t [Yee or No]		(Number)	Legs		her (Describe)	Attached	(Where & How)
		wold Heal-Trea ther internal or (fed, sklemal pressure	with coincide	nt lemperature w	hen applicable.				

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SHEETS 4 OF 4

5022 15170

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. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GE NF & CM

2117 Castle Hayne Road Wilmington, North Carolina 28401 (Name and Address of NPT Certificate Holder)

Chattanooga. Tennessee 37402-2127 (b) Hanufactured for : __TVA

(Name and Address of N Certificate Folder for completed nuclear component)

2. Identification - Certificate Holder's S/H of Part: A4255 Nat'l Bd. No. _

(a) Constructed According to Drawing No: 768E534G008 Ray 9 Day Prepared by D. L. Peterson

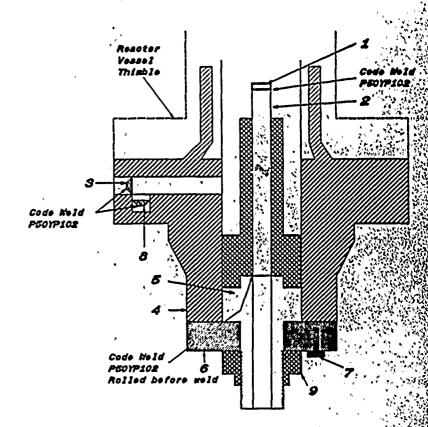
(b) Description of Part Inspected: Control Rod Drive Model # 7RDB144FG005

(c) Applicable ASHE Code: Section III . Edition 1974 . Addenda Date W75. Case No. N207 1361-2 Class 1

3. 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 - F304 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. dla.
- 3. Plug 159A1176P001 1/4" thick x 0.812" OD
- 4. Flange 919D610P001 (719E474) 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° OO x 1.75° ID
- 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle
- 8. Plug 175A7981P001 SA182 - F304 0.38° thick x 1.307° dia.
- 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.



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

As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESS	SEE VALLEY AU	THORITY		Date Novemb	er 19	1994	
1101 Ma	rket St. Name						
	nooga, TN 37	402-2801		Sheet 1	of 4		
	Address			0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
2. Plant Browns	Ferry Nuclea	r Plant		Unit2			
	Name						
P.O. Box 200	0; Decatur,	AL 35609-	-2000	Work Order	94-103	308 <u>-05</u>	
						O. No., Job No.,	etc.
3. Work Performed by	Nuclear Ene	rgy Servic	es	Type Code Symbol Authorization No.	Stamp	N/A	
		IASIIIA		Authorization No		N/A	
Shelter Rock Ro	oad; Danbury CT	06810		Authorization No Expiration Date		I/A	
	Address						
4. Identification of Sys	tem System	85, Contro	1 Rod Dri	ve			
	,						
5. (a) Applicable Cons	truction Code(See	Kemarks) 19	Edition,	A	ddenda,		Code Case
(b) Applicable Editi	on of Section XI Util	lized for Repairs	or Replacement	s 19 <u>86</u>			
6. Identification of Co.	mponents Repaired o	r Replaced and F	Replacement Co	mponents			
					т	,	
				1		1	ASME Code
			Nania mal			Repaired,	Stamped
Name of	Name of	Manufacturer	National Board	Other	Year	Replaced,	(Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
Component		531,57115					
							<u> </u>
Control Rod	General			P/N		1	
Drive @ location	Electric	A5434	N/A	768E534G008	1992	Replacement	Yes
14-39							
Bolting (8 ea)	Vitco			P/N			
for CRD location	Nuclear	N/A	N/A	137C9293P001	N/A	Replaced	No
14-39	Products, Inc			HT # 61811			
	Replaced Co	de Class 1	equivale	nt Control Ro	d Driv	re Mechanis	m and
7. Description of Work							
7. Description of Work	DOLULIS MAC	OZZGZ OH C				8	
8. Tests Conducted:	Hydrostatic Pn	eumatic No	ominal Operating	- P [Χ]			
•		.—	Test Temp				
	Other Pressure_	TAY W DSI	rest remp	F			
					\ .!= . != 0**	In 44 !- IO\ !	
NOTE: Supplement	tal sheets in form of	lists, sketches, (or arawings may	be used, provided (1) (3) each sheet is nur	, size is 8% nhered en	t III. X I I III., (2) I d the number of	cheete le
recorded at the top		i is included on (cacii siicet, allu	10) Gacii silegt is liui	IIDelea all	a the number of	***************************************
recorded at the top	or ans rount,						

(12/82)

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

FORM NIS-2 (Back)

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed
	Applicable Manufacturer's Data Reports to be attached
	per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the
	inspection boundary.
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric
	Installation Specification 22A2125.
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
	ASME Code, Section XI. repair or replacement
	Type Code Symbol StampN/A
	•
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Hallis Stillett System ENGINEER Date NOVEMBER 19 , 19 94
	Owner or Owner's Designed, Title
_	
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State
	or Province of TENN and employed by HSBJ & I
	in this Owner's Report during the period 7/6/64 to 11/23/94, 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.
	MANTALL Commissions NB6908 TN3135
	Inspector's Signature Commissions National Board, State, Province, and Endorsements
	Date
	Date

FORM NIS 2 ATTACHIEN

BOZZ 4311

WO # 04-10308-05

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. Hand actured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM) 2117 Castle Havne Road: Wilmington, North Carolina 28401 (Name and Address of HTT Certificate Bolder) (Name and Address of HTT Certificate Bolder)
(Name and Address of M Cartificate Holder for completed nuclear component)
2. Eddentification - Certificate Holder's S/N of Part : A5434 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: <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. 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
We cartify 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 HPT 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: 9/14/92 Signed GE-NEBG-NF&CM-OA By CO O Representive)
Certificate of Authorization Expires: 8/18/93 Certification of Authorization No. : NPTN-1151
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>Biorn Haabera</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
Stress analysis report certified by _EUWald_tostillo _ Frot. Eng. StateOdifi_ Reg. noINIO/100-10
Countification of the Transation
continuation of such insheprion
I, the undersigned, holding a valid commission 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 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.
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.
7/14/92. June Porture NC 1231. Ohlo. 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 Dar Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

Page 96 of 148

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5022,4312

FORM N-2 (back)

FORM NIS-2 ATTACHMENT SHECT 3 of 4 WO # 94-10308-05

Berg The Control of t

CONTRACTOR OF THE PROPERTY OF

Items 4-8 Incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchangers. Nominal Corrosion Thickness in. Allowance in. Dia. ft. in. Length ft. in. 4. Shell: Material _ _ T.S. _ (Kind & Spec. No.) (Min. of Range Specified) R.T. _____ Efficiency _____ 5. Seams: Long _____ _____ н.т.՝ __ ____ R.T. ___ No. of Courses Girth _ __ T.S. ____ _____(b) Haterial ______ T.S. _ 6. Heads: (a) Haterial __ Bottom, Ends) Thickness Radius Knuckle Elliptical Concial Hemispherical Flat Side to Press. Location (Top Apex Angle Radius Diameter (conv. or conc.) Radius Ratio Other fastening __ If removable, bolts used (Material, Spec. No., T.S. Size Number) (Describe or attach shetch) 7. Jacket Closure: _ (Describe as ogee and weld, bar, etc. If her give dimensions, if botts, describe or sketch) Orop Veight Charpy Impact 8. Design pressure ______ psi at _____ at temp of _ Items 9 and 10 to be completed for tube sections (Subject to pressure) Thickness ____ in. Attachment _ 9. Tube Sheets: Stationary. Material _ (Kind & Spec. No.) (Welded, Bolted) Thickness ____ in. Attachment Material _ Floating. 10. Tubes: Haterial ___ ___ 0.0. _____ in. Thickness ___ Inches or gage. Humber _____ Items 11 - 14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. Nominal Corrosion 11. Shell: Haterial _____T.S. ____Thickness
(Kind & Spec. No.) (Min. of Plange Specified) Thickness ___ in. Allowance ___ in. Dia. ___ ft. ___ in. Length ___ ft. ___ in. 12. Seams: Long ___ ______ R.T. _____ Efficiency ______X H.T. No. of Courses _____ Glrth _____ T.S. ____ (b) Material ____ 13. Heads: (a) Material ___ Knuckle Elliptical Concial Hemispherical Flat Side to Press. Crown Thickness Radius Diameter Apex Angle (conv. or conc.) Location Radius Ratio (a) Top, bottom, ends (b) Channel Other fastening __ If removable, bolts used (a) (Describe or attach steech) Drop Weight Charpy Impact F at temp of 14. Design pressure Items below to be completed for all vessels where applicable. 15. Safety Valve Outlets: Number _____ Size _____Location 16. Nozz las: Purpose (Irsot, Outool, Orean) Die, or Size 17. Inspection Manholes, Handholes, Open ings: Threaded. Other (Describe) (Number) (Number) 18. Supports: (Where & How) 2 . Ust other internal or external pressure with coincident temperature when applicable.

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Page, 18

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. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)

2117 Castle Havne Road, Wilmington, North Carolina 28401

(b) Hanufactured for : TVA Chattanooga Tennessee 37402-2127

(Name and Address; of M Certificate Holder, for completed nuclear component)

But the first section

2. Identification - Certificate Holder's S/N of Pert : A5434 Nati Bd. No. N/A

(a) Constructed According to Drawing No: 788E534G008 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. REHARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min.
(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 16889313P001 SA312 - TP318 3/4° sch 40 - seambss pipe 0.113° wall thickness 1.065° max, dia,

3. Plug 15\$A1176P001 \$A182 - F304 1/4" thick x 0.812" OD

4. Flenge 919D610P001 (719E474) SA182 • F304 3.37* thick x 9 5/8* OD

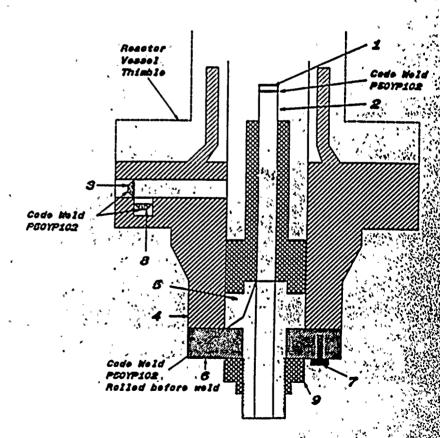
5. Baso 137C5311P001 SA182 - F304 7/8* thick x 2.875* dia.

 Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 • F304 1* thick x 5.0* OO x 1.75* iD

7. Cep Screw 117C4516P002 SA193 - B8 6 os. 1/2° dis. on 4 1/8° bott circle

8. Plug 175A7981P001 SA182 - F304 0.38° thick x 1.307° dia.

9. Nut 137C5934P001 XM - 19 SA479 1,30° thick x 2.62° dia.



Page 98 of 148

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

1. Owner TENNESS	SEE VALLEY AU	THORITY		Date_ Novembe	er 19,	1994	
1101 Ma	rket St. Name						
Chattan	looga, TN 37	402-2801		Sheet 1	of 4		
	Address						
2. Plant_ Browns	Ferry Nuclea	r Plant		Unit 2			
	Name						
P.O. Box 200	0; Decatur,	AL 35609-	·2000	Work Order			
	Address					.O. No., Job No.,	etc.
3. Work Performed by	Nuclear Ene	rgy Servic	es	Type Code Symbol	Stamp	N/A	
, , , , , , , , , , , , , , , , , , ,				Authorization No Expiration Date	NT /	N/A	
Shelter Rock Ro	oad; Danbury, C.	1. 00810		Expiration Date	14/	A	
	• •	OF Contro	1 Dad Dais	••			
4. Identification of Sys	temSystem_	os, concre	I ROU DII	/e			
5. (a) Applicable Cons	(600	Romarks) 40	Calinia				0-d- 0
	on of Section XI Uti				aaenaa,_		_Code Case
(b) Applicable Editi	on of Section A) Uti	lized for Repairs	or neplacements	19			
6. Identification of Cor	mnanante Panaima a	r Replaced and F	Paniscament Con	nnanante			
o. Identification of Col	inpolicints mepalied c	i riepiaced and i	teplacement con	ipononts			
					1		
			i				ASME
					l	Dome'red	Code
No. of	None of	Manufacturer	National	Othor	V	Repaired, Replaced,	Stamped (Yes
Name of Component	Name of Manufacturer	Serial No.	⊸ Board No.	Other Identification	Year Built	or Replacement	
Component	, manaractaror	001101110.			55	·	
							<u> </u>
Control Rod	General:			P/N			i i
Drive @ location	Electric	A5608	N/A	768E534G008	1992	Replacement	Yes
14-55							i i
Bolting (8 ea)	Vitco	• .		P/N .	l		
for CRD location	Nuclear	N/A	N/A	137C9293P001	N/A	Replaced	No
14-55	Products, Inc				[
					<u> </u>	 	
					 		
L	D == 1 == 3 O=	d- 01 1		it Control Ro	d Dade	l Machania	m ond
7. Description of Work	kepiaced Co	de Class I	. equivarei	It College Moobe	od DETA	re nechanis	m and
/. Description of Work	DOLCING Mac	eriar on C	OHELOT KOC	DLIVE RECHA	IIII J	Liange.	
8. Tests Conducted:	Hydrostatic Pn	eumatic No	ominal Operating	Processo [X]			
	Other Pressure_						
	o 11633016_	υ	1036 1011101-	1			
NOTE: Sundamon	tal chapte in form of	liete ekatohan o	or drawings may	be used, provided (1)	size is 84	in. x 11 in (2) i	nforma-
tion in items 1 thro	ough 6 on this report	t is included on	each sheet, and	(3) each sheet is nun	nbered an	d the number of	sheets is
recorded at the top	_						
·							

(12/82)

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

FORM NIS-2 (Back)

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed
	Applicable Manufacturer's Data Reports to be attached
	per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the
	inspection boundary.
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric
	Installation Specification 22A2125.
	,
	•
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
	ASME Code, Section XI. repair or replacement
	y.
	/ .
	Type Code Symbol StampN/A
	27/4
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Fills J. Signed Styles System ENGINEER Date November 19, 1994
	Signed Hillip J. Lillest System ENGINEER Date November 19, 1994 Owner's Designee, Title
	Owner or Owner's Designee, Title REM 11/19/94
	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 TENN. and employed by HSBJ&J of
	have inspected the components described in this Owner's Report during the period 7/6/94 to 11/23/94, 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,
	1117 /11
	Inspector's Signature Commissions VB6908 TTV 3135 National Board, State, Province, and Endorsements
	Inspector's Signature Wattonal Board, State, Province, and Endorsements
	* 22 <i>C</i> V.
	Date

5022,3215

FORM NIS-2 ATTROIMENT. SHEET 2 OF 4 WO#94-10308-06

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.	Anufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
1	2117 Castle Hayne Road. Wilmington. North Carolina 28401 (Name and Address of NPT Certificate Holder)
	(b) Hanufactured for : TVA Chattanooga, Tennessee 37402-2127 (Name and Address of N Certificate Bolder for completed nuclear component)
11	
M	Identification - Certificate Holder's S/N of Part : <u>A5608</u> Nat'l Bd. No. <u>N/A</u>
11	(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> , <u>Model</u> # 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 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 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 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: 07/29/92 Signed GE-NEBG-NF&CM-QA By SC QA Representive) Certificate of Authorization Expires: 6/16/93 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 atGE Company , San Jose , California
	DC22A6253 Rev. 1 Design specification certified by <u>Bjorn Haaberg</u> Prof. Eng. State <u>Callf.</u> Reg. No. <u>15570</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 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 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".

Inspector's Signature

NC 1231. Ohlo. WC 3686 PA
National Board, State, Province And No.

connected with this inspection.

Page 101 of 148

5022.3216 % (S) FORM H-2 (back) FORM NIS-2 ATTACAMENTS; SHEET 3 of 4 WO # 94-10308-06

. She	:11: M	aterial	VI 8 8000 No.	T.S	Nominal Thickness	in.	Corrosion	in. Dia.	ft.	in.	Length	_ ft
. Sea	ums: Lo	ong		c) (mar Cr) day	H.T	-	R.T.	•		_ Effici	ency	;
	G	irth			н.т.1		R.T.	•		No. of	Courses	
. Hea							(b)					
						Elliptic Ratio	al Concial Apex Anglo	Hemisph Radius	erical	Flat Diameter	Side to	
b) If	removat	ole, bo	ts used			-	,Other fast					
. Jac	ket Clo	sure:		(Materio	u, Spec. No., T.S.					ecribe or attach	eketch)	
							If ber give dimension	_	Charpy	Impact		
. Des	ign pre	ssure		1250	ps	1 at	575	ř	at temp	of		
tems 9	and 10	to be	complete	d for tube	sections							
. Tub	e Sheet	s: Sta	ationary. Sating.	Haterial Haterial	(Kind & Sp	ec, No.)	Dia. (Subject to pres Dia.	Thick	kness kness	in. A	ttachment ttachment	(Weided, Bolte
							hickness					
tems 1	1 - 14	incl. i	o be com	pleted for	inner cham	bers of jac	cketed vessels,	or channe	ls of he	at exchange	ers.	
		terial			Nominal Thickness		Corrosion Allowance				····	_ ft
She	11; Ka	iterial (Kin	d & Spec. No.	T.S. .) (Min. of Renç	Hominal Thickness ge Specified)	in.	Corrosion :	in. Dia.	ft.	in. t	Length	
She	11: Ha	iterial (XX	d & Spec. No.	T.S.) (Min. of Pany	Nominal Thickness ge Specified)	in.	Corrosion	in. Dia.	ft.	in. t	Length	x
She	11: Ha ms: Lo	eterial (Pon ong	d & Spec. No.	T.S. (Min. of Rang	Nominal Thickness os Specified) H.T.	in.	Corrosion Allowance R.T.	in. Dia.	ft.	in. l	Length	x
She Sea Hea	ns: Lc Gi ds: (a	oterial (xxx) ong irth i) Kater on	d & Spec. No.	Crown Radius	Nominal Thickness Specified) H.T. H.T. Knuckle	T.SEllipticeRatio	Corrosion Allowance R.T. R.T. (b) All Concial Apex Angle	Material	ft.	in. LEfficionNo. ofT. Flat_Diameter	Courses Side to (conv.	Press. or conc.)
. She . Sea . Hea	ns: Lc Gi ds: (a	oterial (xxx) ong irth i) Kater on	d & Spec. No.	Crown Radius	Nominal Thickness Specified) H.T. H.T. Knuckle	T.SEllipticeRatio	Corrosion Allowance R.T. R.T. (b) All Concial Apex Angle	Material	ft.	in. LEfficionNo. ofT. Flat_Diameter	Courses Side to (conv.	Press. or conc.)
. She . Sea . Hea	ns: Lc Gi ds: (a	oterial (xin	d & Spec. No.	Crown Radius	Nominal Thickness Specified) H.T. H.T. Knuckle	T.SEllipticeRatio	Corrosion Allowance R.T. R.T. (b)	Material	ft.	in. tEfficieNo. ofT. Flat Diameter(Descr	Courses	Press. or conc.)
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TÀM NIS 2 ATTACAME SHEET 4 OF 4

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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, D

1. Hanufactured & Certified by : General Electric Company Núclear Fuel & Components Manufacturing (GENF & CM 2117 Castle Havne Road, Wilmington, North Carolina 28401

(Name and Address of NPT Certificate Holder) (b) Hanufactured for : _TVA

Chattanooga, Tennessee 37402-2127. (Name and Address of M. Certificate dolder for completed nuclear component)

2. Identification - Certificate Holder's S/N of Part : A5608 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 1381-2 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)

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° sch 40 - seamless pipe 0.113° wall thickness 1.065° max, dla,

3. Plug 159A1176P001 SA182 - F304 1/4" thick x 0.812" OD

4. Flange 919D810P001 (719E474) SA182 - F304 3.37° thick x 9 5/8° OD

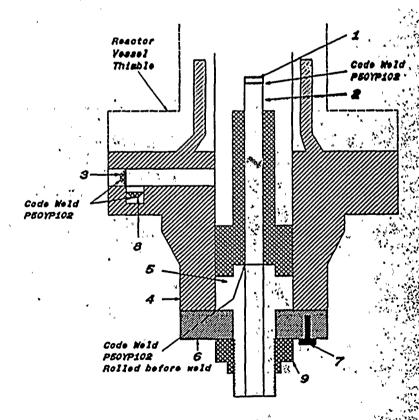
5. Base 137C5311P001 SA182 - F304 7/8° thick x 2.875° dia.

6. Ring Flange 114B5122P002, P003 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.

9. Nut 137C5934P001 · XM - 19 SA479 1,30° thick x 2,62° dia.



Page 103 of 148

Post On a College



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

1. Owner TENNESS	SEE VALLEY AU	THORITY		Date Novemb	<u>er 19</u>	, 1994	
	100ga, TN 37	402-2801		Sheet 1 c	of <u>4</u>		
2. PlantBrowns				Unit 2			
2. Plant BLOWIS	Name	L LLanc	.	Unit2			
P.O. Box 200	00; Decatur,	AL 35609-	-2000	Work Order			
	Address	ray Saryia	200			.O. No., Job No., א/א	etc.
3. Work Performed by	Nuclear Bile	Name	.00	Type Code Symbol Authorization No	Stamp	N/A	
Shelter Rock Ro	oad; Danbury, CI	06810		Expiration Date	N,	/A	
	Address	95 Contro	1 Pad Dat				
4. Identification of Sys	stem	os, concre	I KOG DII	ve			
5. (a) Applicable Cons					ddenda,_		Code Case
(b) Applicable Editi	on of Section XI Uti	lized for Repairs	or Replacement	s 19 <u>86</u>			
6. Identification of Co.	mnonents Renaired o	r Replaced and F	Renlacement Cor	moonents			
o. Identification of co	imponents ricpance o	- Tropiacea ana i	·				
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)
Control Rod	General			P/N			
Drive @ location	Electric	A3543	N/A	768E534G008	1992	Replacement	Yes
18-11							
Bolting (8 ea) for CRD Location	Vitco Nuclear	N/A	N/A	P/N 137C9293P001	N/A	Replaced	No
18-11	Products, Inc			HT # 61811			
,	-						
	Replaced Co	de Class I	equivale	nt Control Ro	d Dri	ve Mechanis	m and
7. Description of Work							
	Hydrostatic Pn Other Pressure		ominal Operating Test Temp				
NOTE: Supplemen tion in items 1 thro recorded at the top	ough 6 on this report	lists, sketches, o	or drawings may each sheet, and	be used, provided (1) (3) each sheet is nur) size is 8½ nbered an	in. × 11 in., (2) i d the number of	nforma- sheets is

(12/82)

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

FORM NIS-2 (Back)

). Re	emarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed
_	Applicable Manufacturer's Data Reports to be attached
pe	er Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the
	nspection boundary.
	pplicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric
	nstallation Specification 22A2125.
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
Α	SME Code, Section XI.
T۱	ype Code Symbol StampN/A
	,
Ce	ertificate of Authorization No. N/A Expiration Date N/A
	The ending of the second
Si	ONTO HELLO TO TURNET. SYSTEM ENGINEER Date NOVEMBER 19 19 94
<u> </u>	Oyner or Owner's Designee, Title ENGINEER Date November 19, 1994
	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>TENN.</u> and employed by <u>HSBI &I</u> of HARTFORD, CT have inspected the components described
_	this Owner's Report during the period 7/6/44 to 11-23-94, and state that
in	this Owner's Report during the period 7/6/44 to 1/-23-94, and state that
to	the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
	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, concerning the
ex	caminations 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
	spection.
	011 - 201
_	Commissions NB6908 TN 3/35
_	Inspector's Signature Commissions National Board, State, Province, and Endorsements
	22
D:	ate Nov. $\sqrt{3}$ 1994

WD#94-10308-07

5022.3193.

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 & Cert If led by: <u>General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)</u> 2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Name and Address of MPT Certificate Holder) (b) Manufactured for : TVA Chattanooga, Tennessee 37402-2127 (Name and Address of N Certificate Holder for completed nuclear component) Identification - Certificate Holder's S/N of Part : __A3543 __ 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: <u>Control Rod Drive</u>, <u>Model</u> # 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 psl. 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). Signed GE - NEBG - NF & CM - QA Date: 07/29/92 Ву ____ (NPT Certificate Holder) OA Representive Certificate of Authorization Expires: 6/16/93 Certification of Authorization No.: NPTN-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 Callf. Reg. No. 15570 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 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 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. Lucy NC 1231, Ohio, WC 3686 PA
National Board, State, Province And No. Denome Inspector's Signature

*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". (47/94)

Date

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Page 0f

5022,3194

FORM N-2 (back)

SHEET 3 OF 4
FORM NIS-2 ATTACMENT
WO # 94-10308-07

. She	ll: Material	T.	S	Hominal Thickness	in. Ai	rrosion lowance	in. Dia ft	In. L	ength ft,
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\$} 	emovable, bo	Its used				Other faster	ning		
. Jack	et Closure:		(Material	, Spec, No., T.S.	Size Number)		(0	eecribe or attach si	witch)
			(Dec	cribe as ogee ar	nd weld, ber, etc. X1	ber give dimensions, i	bolts, describe or sketch		
	,						Charpy	Impact	ft-1b
. Desi	gn pressure		1250	ps	1 at	575	_ F at tem	of	F
tems 9	and 10 to be	completed	for tube	sections					
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	FI	oating.	Haterial .	/ valio er ob	Dia	f and act to harm	Thickness	In. At	tachment
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							or channels of h		
tems 11	- 14 Incl.	to be compli	eted for				or channels of he	eat exchange	F8.
					ΓA	rraeian			
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	is: Long	nd & Spec. Ho.) (Min. of Range	Thickness Specified) H.T.	In. Al	lowance		_ Efficie	•
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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 WO # 94-10308-0

1. Hanufactured & Certifiled by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)

2117 Castle Hayne Road, Wilmington, North Carolina 28401
(Name and Address of MPT Certificate Bolder)

(b) Manufactured for : TVA Chattanooga, Tennessee 37402-2127 (Name and Address of N Certificate Holder for completed nuclear component)

2. Identification - Certificate Holder's S/N of Part : A3543 Natl Bd. No. N/A

(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dag. 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. 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 - F304 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 SA182 - F304 1/4" thick x 0.812" OD

4. Flangs 919D610P001 (719E474) SA182 - F304 3.37* thick x 9 5/8* OD

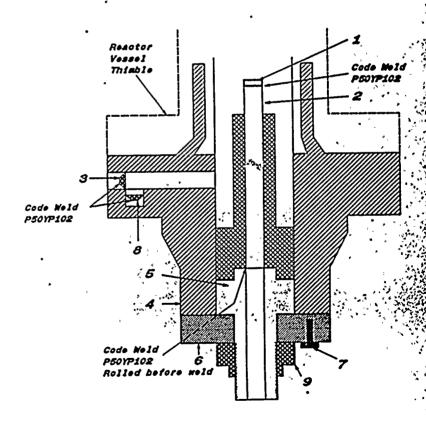
5. Base 137C5311P001 SA182 • F304 7/8' thick x 2.875' dia.

6. Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304 1* thick x 5.0* OD x 1.75* 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.

9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.



Page 108 of 148

P350. 7

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

1. Owner_TENNESS	EE VALLEY AU	THORITY		Date Novembe	r 19.	1994	
1. Owner 1200 Ma	1101 Market St. Name						
		402-2801		Sheet 1	. 4		
0114 0 0 0 0 1	ooga, TN 37			Jiled L	/·		
2. Plant Browns		Unit 2			-		
P.O. Box 200	2000	Work Order 94-10308-08 Repair Organization P.O. No., Job No., etc.					
	Address						
3. Work Performed by	Nuclear Ene	<u>rgy Servic</u> Namo	es	Type Code Symbol	Stamp	N/A	
Chaltan Dada Da	ad. Dambaana M	06010		Authorization No Expiration Date	N7/	WA	
Shelter Rock Ro	ad; Lanbury, CI Address	00810		Expiration Date	N/E	1	
4. Identification of Sys	tem System	35, Contro	1 Rod Driv	ve			
	/	Damastan)				•	
5. (a) Applicable Cons	truction Code (See	Kemarks) 19	Edition,	A	ddenda,		Code Case
(b) Applicable Editi	on of Section XI Util	ized for Repairs	or Replacement	s 19 <u>.00</u>			
6. Identification of Cor	nponents Repaired o	r Replaced and F	Replacement Co	mponents			
					· · · · · · · · · · · · · · · · · · ·		
	, '	•					ASME
							Code
			Aleale est			Repaired.	Stamped
No at	Nome of	Manufacturer Serial No.	National Board No.	Othor	Year	Replaced,	(Yes
Name of	Name of Manufacturer			Other Identification	Built	or Replacement	
Component	Mandiactorei	Serial NO.	140.	Identification	Dunc		
						:	1
Control Rod	General	i		P/N			
Drive @ location	Electric	A4130	N/A	768E534G008	1992	Replacement	Yes
18-19							
10 19						ļ	
Bolting (8 ea)	Vitco			P/N			
for CRD location	Nuclear	N/A	N/A	137C9293P001	N/A	Replaced	No
18-19		N/A	MA	HT # 61811	IVA	пертасец	1.0
10-19	Products, Inc			ur 1, 01011			
					 	-	
			ــــــــــــــــــــــــــــــــــــــ	1	<u> </u>		
				ol Rod Drive Med	nanism	and porting	
7. Description of Work	material on Co	ntrol Rod Dr	ive Mechanis	m flange.			
				A *			
8. Tests Conducted:	Hydrostatic 🔲 🛮 Pn	eumatic 🔲 No	ominal Operating	g Pressure 🔀			
	Other Pressure_	N/A psi	Test Temp	N/A °F			
		,,					
NOTE: Sunniament	al shoots in form of	lists skatchae c	or drawings may	be used, provided (1	size is 84	in. x 11 in (2) i	nforma-
tion in items 1 thro	uch 6 on this report	is included on	each sheet, and	(3) each sheet is nur	nbered an	d the number of	sheets is
recorded at the top			-				

(12/82)

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

FORM NIS-2 (Back)

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed per
	Applicable Manufacturer's Data Reports to be attached
	Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the inspection
	boundary.
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric
	Installation Specification 22A2125.
	•
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
	ASME Code, Section XI.
	Type Code Symbol Stamp N/A
	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Signed System ENGINEER Date NOVEMBER 19, 1994
	Signed Owner or Owner 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 TENN and employed by HSBJ & T of HARTFORD, CT have inspected the components described in this Owner's Report during the period 7/6/94 to 4/23/94 , and state that
	in this Owner's Report during the period 7/6/94 to 11/23/94 , 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.
	1117-911
	Ultra AUA Commissions WBG08 TV3/35 Inspector's Signature National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
	Date
•	- I

SHEET 2 of 4

5022.4772

FORM NIS-2 ATTACHMENT.

FORM N-2 NPT CF THE CATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

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

WO# 94-10308-08

1. Manufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
2117 Castle Havne Road, Wilmington, North Carolina 28401
(b) Many actured for : TVA Chattanooga. Tennessee 37402-2127 (Mame and Address of M Certificate Bolder for completed nuclear component)
2. Identification - Certificate Holder's S/N of Part : A4130 Nat'l Bd. No. N/A
(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Peterson
Description of Part Inspected: <u>Control Rod Drive</u> , <u>Model # 7RDB144FG005</u>
(c) Applicable ASHE 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 psl. min.</u> (Brief description of service for which component was designed)
Chank I at 0
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).
Date: 9/14/92 Signed GE-NEBG-NF&CM-QA By SC QVispresentive)
Cartificate of Authorization Expires: 8/18/93 Certification of Authorization No. : NPT N - 1151
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>
OC22A6253 Rev. 1 Design specification certified by <u>Blorn Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</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 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 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.
7/14/92. Juone Poliver NC 1231. Ohlo. 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 __111__of __148_

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FORM NIS-2 ATTACHMENT: SHEET 3 OF 4
WO # 94-10308-08

6022.4773

FORM N-2' (back)

Shell	: Material	тт.	s	Mominal Thickness	in. A	orrosion 11owance	In. Dia ft	in. l	ength ft
	(10	nd & Spec. No.)	(Man, of Reng	e Specified)					
Seams	: Long					R.T.		Efficie	ency
	Girth _			н.т.1		R.T.		No. of	Courses
Heads	: (a) Hato	rial			T.S				.s
Botto				Radius	Ratio	Apex Angle	Hexispherical Radius	Flat Diameter	Side to Press. (conv. or conc.
) If re	movable, bo	Its used _				Other faster	aling(C		- '4
Jacke	t Closure:		(Masóriai	L Spec No., T.S.	Size Number)		(0	Describe or attach s	heatch)
••••			(De	ecribe as ogee a	nd word, bar, etc., I	ber give dimensions, I	bolts, describe or sheld	h)	
							Urop w Charpy	Impact	ft-
Desta	n oressure		1250	DS.	1 at	575	_°F at tem		_
		completed							
Tube	Sheats: St	ationary.	Material	[10nd & 8n	Di	Subject to over-	Thickness _	in. At	tachment (Welded,
	Fì	oating.	Material		Dia	1.,	Thickness	in. At	tachment
Tubes	: Material			O.D	in. Thic	ckness	inches or gage. N	umber	Туре
									(8kr, c
ms 11	- 14 incl.	to be compl	eted for	inner cham	bers of Jack	sted vessels, o	r channels of h	eat exchange	rs.
Shell					in. A	orrosion Nowance	in. Dia ft	In. L	ength ft
	(10	T. nd & Spec. No.)	(Min. of Rang	Thickness Specified)	in. A	11owance 1		Efficie	ency
	(IO Long	nd & Spec. No.)	(Min. of Rang	Thickness Specified)	in. A	11owance 1		Efficie	
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Seams Heads Lo) Top.b	: Long Girth : (a) Mate cation ottom, ends	rial	Crown Radius	Thickness Beeched) H.T. H.T. Knuckle Radius	T.SElliptical	R.T (b) He Concial Apex Angle	iterial Hemispherical Radius	Efficie No. of T. Flat Diameter	CoursesSSide to Press. (conv. or conc.
Seams Heads Lo) Top.b	: Long Girth : (a) Mate cation ottom, ends	rial	Crown Radius	Thickness Beeched) H.T. H.T. Knuckle Radius	T.SElliptical	R.T (b) He Concial Apex Angle	Hemispherical Radius	Efficie No. of T. Flat Diameter	Courses S. Side to Press. (conv. or conc.
Seams Heads Lo) Top.b	: Long Girth : (a) Mate cation ottom, ends e) movable, bo	rialThickness	Crown Radius	Thickness Beeched) H.T. H.T. Knuckle Radius	T.SElliptical	R.T (b) He Concial Apex Angle	Hemispherical Radius	Efficie No. of T. Flat Diameter	CoursesS(conv. or conc
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Seams Heads Lo Top.b Chann If re	: Long Girth : (a) Mate cation ottom, ends e) movable, bo	rial Thickness Its used (a	Crown Radius	Thickness Bosched) H.T. H.T. Knuckle Radius	T.SElliptical Ratio(c)	R.T (b) He Concial Apex Angle	Hemispherical Radius Fastening Orop W Charpy	Efficie No. of T. Flat Diameter (Communication) (Impact	Courses S Side to Press. (conv. or conc be or attach eletch)
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Seams Heads Lo) Top.b) Chann If re Desig	: Long Girth : (a) Mate cation ottom.ends e) movable, bo	rial Thickness Its used (a	Crown Radius	Thickness **Bpeched** H.T. H.T. Knuck le Radius (b)	T.S Elliptical Ratio psi at applicable.	R.T R.T (b) Hz Concial Apex Angle Other	Hemispherical Radius Fastening Orop W Charpy	Efficie No. of T. Flat Diameter eight Impact p of	Courses Side to Press. (conv. or conc.
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Seams Heads Lo Top.io Chann If re Desig This bel Safet Nozzł	Cation out to be come of the country	Thickness Thickness Its used (a mpleted for lets: Numb nist, in) Nu oles, No.	Crown Radius all vess er Lugs	Thickness Specified) H. T. Knuck le Radius (b) Cla. or Size	T.S. Elliptical Ratio (c) pai at applicable. Size Size Size Size Size	R.T (b) Hz Concial Apex Angle Other	Hemispherical Radius Fastening Orop W Charpy F at tem Locati Thickness occation occation	Efficie No. of T. Flat Diameter Gight Impact p of Attac	Courses S. Side to Press. (conv. or conc. the or attach statch) ft- F Thereft How Attached

Page 112 of 148

Service States in

Page _____of

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

WO.#94-10308-08: Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)

2117 Castle Havne Road, Wilmington, North Carolina 28401 () Heme and Address of MPT Certificate Bolders)

Chattanooga/Tennessee 37402-2127 (b) Manufactured for : TVA

(Name and Address of N Certificate Bolder for completed nuclear component)

2. Identification - Certificate Holder's S/H of Part: A4130 Nat'l Bd. No.

(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

REFURKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min. (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 166B9313P001 SA312 • TP316 3/4° ech 40 - seamlass pipe 0.113° wall thickness 1.005" max dia.

3. Plug 159A1176P001 SA182 - F304 1/4" thick x 0.812" OD

4. Flango 919D810P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OO

5. B229 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia.

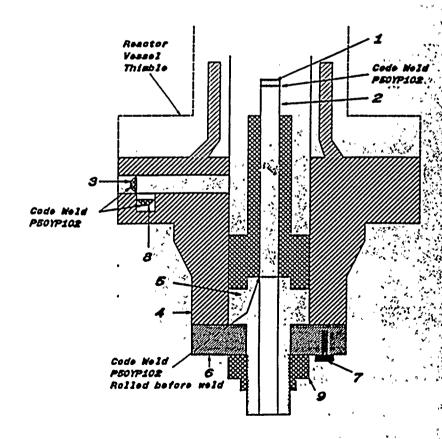
6. Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304 1° thick x 5.0° OO x 1.75° ID

7. Cap Scraw 117C4516P002

SA193 - ES 6 ca. 1/2" dis. on 4 1/8" bolt circle

8. Plug 175A7961P001 SA182 - F304 0.38° thick x 1.307° dis.

9. Not 137C5934P001 XM - 19 SA479 1,30° thick x 2.62° dia.



Page _ 113 of $_{-148}$

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

1. Owner TENNES	SEE VALLEY AU	JTHORITY		Date Novembe	r 20,	1994	
1101 Ma	arket St.Namo			<u></u>			
Chatta	nooga, TN 37	7402-2801		Sheet 1 o	_f 4		
	Address	-· · · · · · · · · · · · · · · · · · ·		0	•		
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2			
4	Name						
P.O. Box 20	00; Decatur,	AL 35609-	-2000	Work Order			
	Address	-		Repair Organ	nization P.	.O. No., Job No.,	etc.
3. Work Performed by	Nuclear Ene	ergy Servic	es	Type Code Symbol	Stamp	N/A	
•		Name		Authorization No		N/A	
Shelter Rock R	Road; Danbury, C	r 06810		Expiration Date	N	I/A	
	Address						
4. Identification of Sy	stem_System	85, Contro	ol Rod Dri	ve			
5. (a) Applicable Con	struction Code <u>(se</u>	<u>e Remarks) 19</u>	Edition,	A	ddenda,		_Code Case
(b) Applicable Edit	ion of Section XI Uti	lized for Repairs	or Replacement	s 19 <u>86</u>			
ý							
6. Identification of Co	mponents Repaired	or Replaced and F	Replacement Co	mponents			
			•	- -		·	
			1			1	
•				1			ASME
						Repaired,	Code Stamped
Name of	Name of	Manufacturer	National Board	Other	Year	Replaced,	(Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	1
Component	Manaractarci	0011011101	1.0.	100174170011011	Dunt	_	
Control Rod	General	, +	ĺ	P/N			
Drive @ location	Electric	A5436	N/A	768E534G008	1992	Replacement	Yes
18-35							
							
Bolting (8 ea)	Vitco Nuclear		İ	P/N			
for CRD location		N/A	N/A	137C9293P001	N/A	Replaced	No
18-35		İ	1	HT # 61811			Ĭ.
10 00							ľ
	}						
	Replaced Co	de Class I	equivale	nt Control Ro	d Driv	ze Mechanis	m and
7. Description of Work							, G.1.G
7. Description of Work		CLIGI VII C	OHCLOL NO	u brive necha	HILOM I	tange.	
8. Tests Conducted:	Hydrostatic Pr	N. Datemus	ominal Operating	a Brossura [V]			
o. Tests Conducted:	Other Pressure_	_		_			
	Other Pressure_	N/A psi	rest remp	N/.A F			
							! .
NOTE: Supplemen	ntal sheets in form of	i lists, sketches, o	or drawings may	be used, provided (1)	size is 8%	: IN, X 11 IN., (2) i	intorma-
recorded at the top		t is included on	each sheet, and	(3) each sheet is num	ineter all	a the nomber of	3110019 19
iccorded at the top	Or tille IVIIII.						

(12/82)

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

FORM NIS-2 (Back)

9. Remarks A system leakage test of the Reactor Pressure Vessel and associated p	iping was performed
Applicable Manufacturer's Data Reports to be attached	
per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM be	ing within the
inspection boundary.	
Applicable Constr. Code - CRIM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Add	
N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmente	d by General Electric
Installation Specification 22A2125.	
·	
•	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement confo	rms to the rules of the
ASME Code, Section XI. repair or replacement	
Type Code Symbol StampN/A	
Certificate of Authorization No. N/A Expiration Date N	/A
	- <i>I</i>
Signed Lillert, System ENGINEER Date NOVEMBER &	2 <u>0</u>
Owner or 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	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	Inspectors and the State
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	components described, and state that
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	components described, and state that
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of components described, and state that neasures described in this
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of components described, and state that neasures described in this implied, concerning the
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of components described, and state that neasures described in this implied, concerning the pector nor his employer
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of components described, and state that neasures described in this implied, concerning the pector nor his employer
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of components described, and state that neasures described in this implied, concerning the pector nor his employer
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of components described, and state that heasures described in this implied, concerning the pector nor his employer m or connected with this
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of components described, and state that heasures described in this implied, concerning the pector nor his employer m or connected with this
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of components described, and state that heasures described in this implied, concerning the pector nor his employer m or connected with this
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel or Province of	of components described, and state that heasures described in this implied, concerning the pector nor his employer m or connected with this

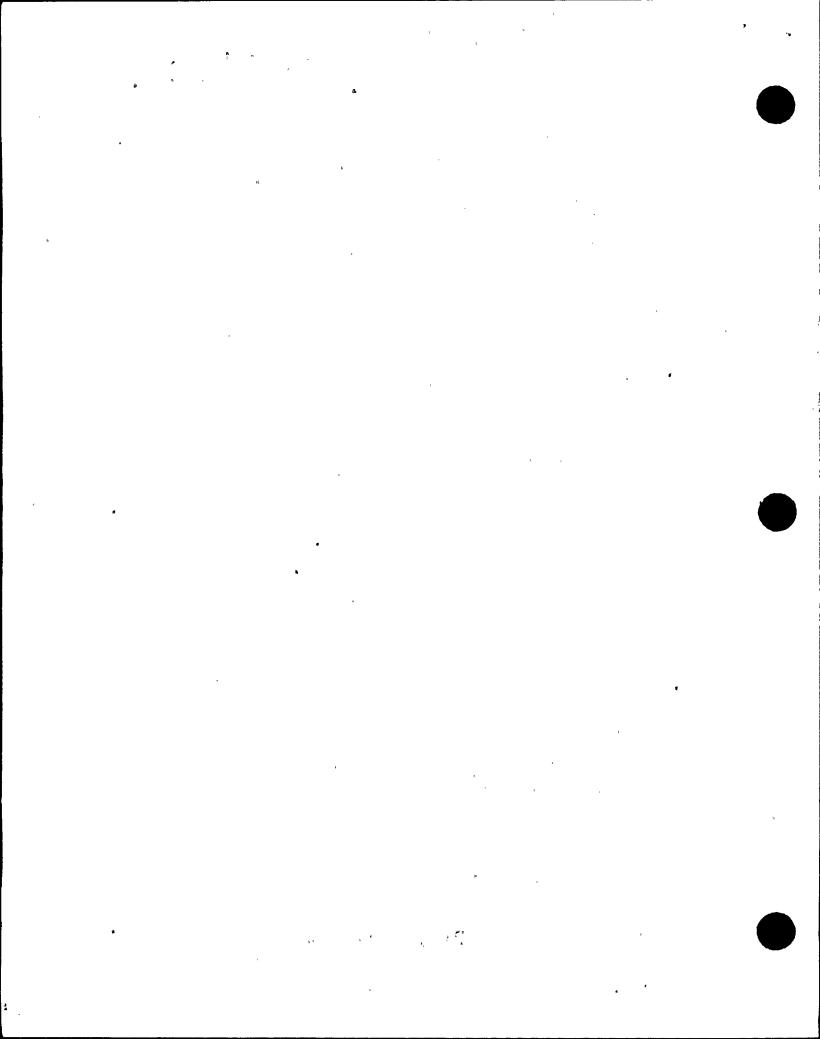
Sheet 2 of 4 Form NIS-2 Attachment WO 94-10308-09

5022.4257

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

1. Hanufac ured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GE NF & CM)
2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Name and Address of MPT Cartificate Holder)
(b) Nanufactured for : TVA Chattanoona Tonnessee 27/02-2127
(Name and Address of M Certificate Holder for completed nuclear component)
2. Sentification - Certificate Holder's S/N of Part : A5436 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. 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 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: 9/14/92 Signed GE-NEBG-NF & CM-QA By SC & Representive)
Certificate of Authorization Expires: 6/16/93 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 atGE Company, San Jose, California
DC22A6253 Rev. 1
Design specification certified by <u>Blorn Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>
DC22A6254 Rev 1 Stress analysis repor <u>rtified by <i>Edward Yoshio</i> Prof. Eng. State <i>Calif.</i> Reg. No. <u>M018646</u></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 North Carolina, and employed by Department of Labor of State of North Carolina, have inspected the part of a pressure vessel described in this Partial Data Report on 7/2, 1972, 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.
9/14/92, Juriou P Epura NC 1231, Ohio, WC 3686 PA Date National Board, State, Province and No.
Date V Inspector's Signature National Board, State, Province And No.
*Supplemental sheets in form of lists, sketches or drawing may be used

*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".



SHEET 3 OF 4 FORM NIS-2 ATTACHMENT WO 94-10308-09

100.4268

FORM N-2 (back)

lte							
4.	Shell: MaterialT.ST.ST.MaterialT.S	Nominal Thickness argo Speeded)	In. Al	Towence 1	in. Dia ft	In. l	ength ft
.	Seeme: Long	н.т.		R.T		Efficie	ency
	€1rth	н.т		R.T.		No. of	Coursesi
١.	Meade: (a) Material		T.S	(b) Ma	iterial	т.	s
4) b)	Location (fop Crowledge C	us Radius	Ratio	Apex Angle		Diameter	(conv. or conc.)
٠,	If removable, bolts used		boo Marchael	Other fasten	ing		
•	Jecket Closure:	Constant on annual	durant has see . It	at the description of	I bells, describe or statch		
					Charpy	Impact	ft-1b
٠.	Design pressure1250	ps1	at	575	F at temp	of	
	ms 9 and 10 to be completed for tu						
•	Tube Sheets: Stationary, Material Floating, Material	[Kind & Spec	Dia. c.No.j	(Subject to pressur	Thickness Thickness	in. At in. At	tachment (Wolded, Boiled tachment
	Tubes: Material	0.0	_ in. Thic	kness	Inches or gage. Ru	mber	Type(St,oru)
							• •
	ms 11 - 14 incl. to be completed for	or inner chamb	ers of jacket	ted vessels, o	r channels of he	nat exchange	rs.
	Shell: HaterialT.ST.S	Nomina) Thickness ange Specified) H.T.	ers of jacke Co in. Al	rrosion ilowance	n. Dia ft.	eat exchange	engthftX
•	Shell: MaterialT.ST.S	Nominal Thickness argo Specifics] H.T.	ers of jacke Co in. Al	rrosion i	n. Dia ft.	in. L Efficie No. of	ength ft X Courses
	Shell: MaterialT.S	Nominal Thickness argo Specified) H.T. H.T.	ers of jacker in. Al	rrosion in R.T R.T R.T (b) Ha	n. Dia ft.	in. L Efficie No. of T.	rs. ength ft
	Shell: MaterialT.S	Nomina) Thickness arge Specified) H.T. H.T. Knuckle us Radius	ers of jacker in. Al T.S. Elliptical Ratio	rrosion in R.T R.T (b) Ha Concial Apex Angle	n. Dia ft. terial Hemispherical Radius	in. L Efficie No. of T. Flat Diameter	ength ft % ncy
),),	Shell: MaterialT.S	Nomina) Thickness arge Secret H.T. H.T. Knuckle us Radius	ers of jacker in. Al T.S. Elliptical Ratio	rrosion in R.T R.T (b) Ha Concial Apex Angle	n. Dia ft. terial Hemispherical Radius	in. L Efficie No. of T. Flat Diameter	ength ft X Courses X Side to Press. (conv. or conc.) be or attach shetch)
	Shell: MaterialT.S	Nominal Thickness Argo Specified H.T. H.T. Knuckle Radius (b)	ers of jacker in. Al T.S. Elliptical Ratio	rrosion in R.T R.T (b) Ha Concial Apex Angle	n. Dia ft. iterial Hemispherical Radius Orop We Charpy	in. L Efficie No. of T. Flat Diameter eight Impact	ength ft % courses Side to Press. (conv. or conc.)
	Shell: MaterialT.S	Nominal Thickness Argo Specifies H.T. H.T. Knuckle us Radius	T.SElliptical Ratio	rrosion in R.T R.T (b) Ha Concial Apex Angle	n. Dia ft. iterial Hemispherical Radius Orop We Charpy	in. L Efficie No. of T. Flat Diameter eight Impact	rs. ength ft % Courses % Side to Press. (conv. or conc.) be oradiach shetch) ft-lb
	Shell: Material	Nominal Thickness Argo Specified; H.T. H.T. M. Knuckle Radius (b) persons to the property of the property o	T.S	rrosion in the second s	n. Dia ft. iterial Hemispherical Radius Orop We Charpy	in. L Efficie No. of T. Flat Diameter eight Impact p of	rs. ength ft % Courses % Side to Press. (conv. or conc.) be oradiach shetch) ft-lb
(a)	Shell: Material	Nominal Thickness Argo Specified; H.T. H.T. M. Knuckle Radius (b) persons to the property of the property o	T.S	rrosion in the second s	n. Dia ft. iterial Hemispherical Radius fastening Orop We Charpy F at tem	in. L Efficie No. of T. Flat Diameter eight Impact p of	rs. engthft
(a) (b)	Shell: Material	Nominal Thickness area Specified; H.T. H.T. Knuckle us Radius (b) Passels where a	T.S. Elliptical Ratio (c) si at pplicable. Size	rrosion in the second s	n. Dia ft. iterial Hemispherical Radius Orop We Charpy F at tem Location	in. L Efficie No. of To Flat Diameter eight Impact p of Reinforcer Meteriel	rs. ength ft

^{1 - #} Postuald Heal-Tressed.

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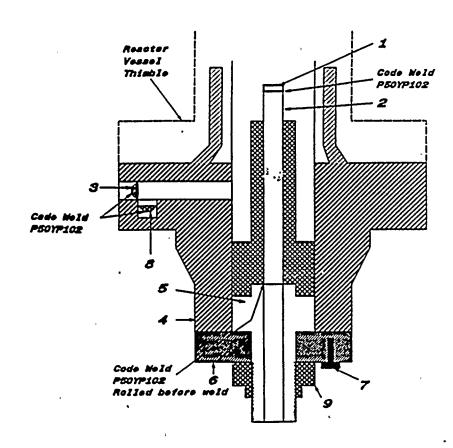
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SHEET 4 OF 4
FORM NIS-2 ATTACHMENT
WO 94-10308-09

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.	Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GE NF & CM)
	2117 Castle Havne Road, Wilmington, North Carolina 28401 (Name and Address of NFT Certificate Holder)
	(b) Manufactured for : TVA Chattanooga. Tennessee 37402-2127 (Name and Address of M Certificate Holder for completed nuclear component)
2.	Identification - Certificate Holder's S/N of Part : A5436 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: <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 - F304 3/8° thick x 1 1/16° OD
- 2. Indicator Tube 16889313P001 \$A312 - TP318 3/4* sch 40 - seamless pipe 0.113* well thickness 1.065* max. dia.
- 3. Plug 159A1176P001 SA182 - F304 1/4° thick x 0.812° OD
- 4. Flange 919D810P001 (719E474) SA182 - F304 3.37; thick x 9 5/8* OD
- 5. Base 137C5311P00' 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° 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.
- 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.



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

							
1. Owner TENNES	SEE VALLEY AU	JTHORITY		Date Novembe	er 20,	1994	
1101 Ma	arket St. Name			Date			
Chattai	nooga, TN 37	7402-2801		Sheet 1 o	f 4		
•	Address						
2. Plant Browns	Ferry Nuclea	r Plant		Unit2			
m a m aa	Name	47 05600	0000	111. 0. 1	0/ 10	200 10	
P.O. Box 200	00; Decatur,	AL 35609-	-2000	Work Order		.O. No., Job No.,	<u> </u>
		man Comut					otc.
3. Work Performed by	Nuclear Ene	Name	ies	Type Code Symbol		N/A	
Shelter Rock R	toad; Danbury, C	т 06810		Authorization No Expiration Date	7		
Official Francis	Address	1 00010		expiration Date	<u> </u>	·,, -,-	
4. Identification of Sys	stem System	85, Contro	ol Rod Dri	ve			
5. (a) Applicable Cons	etruction Code (See	Remarks) 19	Edition	Δ	ddenda		Code Case
	ion of Section XI Uti						.0000 0000
10, 10, 100		•	·				
6. Identification of Co	mponents Repaired o	or Replaced and F	Replacement Cor	mponents			
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)
Control Rod	General.			P/N			
Drive @ location		A4494	N/A	768E534G008	1992	Replacement	Yes_
18-59							
Bolting (8 ea)	Vitco			P/N	-m e .		.
for CRD location		N/A	N/A	137C9293P001	N/A	Replaced_	No
18-59	Products, Inc			HT # 61811			
	Replace Cod	ie Class 1	equivalen	t Control Roo	Drive	e Mechanis	n and
7. Description of Work							
•						•	
8. Tests Conducted:			ominal Operating				
	Other Pressure_	<u> </u>	Test Temp	<u>N/A</u> °F			
NOTE: Supplemention in Items 1 throrecorded at the top	ough 6 on this repor	ilists, sketches, o	or drawings may each sheet, and	be used, provided (1) (3) each sheet is nun	size is 8½ nbered and	in. x 11 in., (2) id the number of	informa- sheets is

(12/82)

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

FORM NIS-2 (Back)

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated
	Applicable Manufacturer's Data Reports to be attached
	piping was performed per Surveillance Instruction 2-SI-3.3.1.A of which the
	aforementioned CRDM being within the inspection boundary.
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric
	Installation Specification 22A2125.
_	
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
: 	ASME Code, Section XI. repair or replacement
	·
	, , , , , , , , , , , , , , , , , , ,
	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Taille To System ENGINEER Date NOVEMBER 20, 1994
	Signed Willer State Stat
_	Oyliel of Owner's Designed, 11tte
	•
	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 TENN and employed by HSBT & T of
	HARTFORD, CT have inspected the components described in this Owner's Report during the period 7/6/94 to 11/23/94, 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.
	All Total
	Inspector's Signature Commissions NB6908 TN 3/3 5 National Board, State, Province, and Endorsements
	Mational Board, State, Province, and Endorsements
	American and an american and american and an american and an american and an american and an american and an american and an american and an american and an american and american analysis and american and american and american and american and american and american and american and american and american and american and american and american and american and american and american and american and american and american and american analysis and american and american and american and american and american and american and american and american and american and american and american and american and american and american and american and american and american and american and america
	Date

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SHEET 2 OF 4 FORM NIS-2 ATTACHMENT

ORM 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

WO # 94-10308-10

Manufactured & Certified by : _	General Electric Company Nuclear Fuel & Components Manufacturing(GENF & CM)
---------------------------------	---

2117 Castle Havne Road, Wilmington, North Carolina 28401 (Name and Address of NPT Certificate Holder)

•	(b)	Manufactured for	:	TVA	Chattanooga,	<u>Tennessee</u>	37402-2127	_
---	-----	------------------	---	-----	--------------	------------------	------------	---

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

- Identification Certificate Holder's S/N of Part : A4494 ... __ Nat'l Bd. No. ___N/A
 - (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Polorson .
 - (b) Description of Part Inspected: <u>Control Rod Drive</u>, <u>Model</u> # 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 psl. 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 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).

Oate: 07/29/92

Signed <u>GE - NEBG - NF & CM - QA</u> (NPT Certificate Holder)

Ву

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 ___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 <u>Edward Yoshlo</u> Prof. Eng. State <u>Calll.</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 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 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.

Jugar mere Inspector's Signature Date

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". { 07/90 }

Page 121 of 148

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6022,2820

FORM N-2 (back)

	ms 4-8 I	ncl. to b	completed	for sing	gle wall ve	ssels, jacket	s vessels, or	shells of heat	exchangers.	1.
4.	Shell:	Haterial (Kir	T.:	S. Min. of Rang	Nominal Thickness Specified)	in. Al	rrosion Iowance	in. Dla ft	in. Lengt	h ft
۶.	Seams:	Long			н.т.¹		R.T		Efficiency	x
					•				-	363
.	Heads:									T.
	Location,	n (Top Ends)	Thickness	Crown Radius	Knuck le Radius	Elliptical Ratio	Concial Apex Angle	Hemispherical	Flat Sic	de to Press.
,			ts used					ing		
•	Jacket (Closure:				. Size Number)			escribe or attach sketch)
	Design (2 Oresture						bolts, describe or sketch Drop W Charpy	eight Impact	ft-1b
			completed i					ac can	y 01	
						01-	-	Thistorn	In 444	
•	1000 3110	C12		12422121	(Kind & Sp	01a	(Subject to pressur	•)	in. Attach	ment (Welded, Bolled
•	Tubes:	materiai			0.0.	in. inic	kness	Inches or gage. Ni	mber	Type(St. or U)
te	ns 11 - 1	14 incl. t	o be comple	ted for	inner cham	bers of jacke	ted vessels, o	r channels of he	eat exchangers.	
		(Kin	d & Spec. No.) (Min. of Rang	e Specified)					h ft x
		Girth			н,т	 	R.T		No. of Cour	ses
	Heads:	(a) Hater	·1a1			T.S	(b) Ha	terial	T.S	
	Top, bott	tion tom, ends			Radius	Ratio	Apex Angle		Diameter (c	e to Press. onv. or conc.)
U)	Channel If remov	vable, bo	ts used (a)		<u>(6)</u>	(c)	Other	fastening	10aardha ar	
									(Describe or a sight Impact	
١,	Design p	ressure 2				ps1 at		0	o of	٥
_			pleted for							
	Safety V	/alve Out	ets: Numbe	r		Size	· · · · · · · · · · · · · · · · · · ·	Locatio	on	
	•	Purpose (In	let,		Dia. or Size		11.1	•	Reinforcement	
		Outlet, Drain	Num	 -		Туре	Material	Thickness	Material	How Attached
	Inspect	ion Hanho				Size		ocation		
•			oles. No.			Size	<u> </u>	ocation	···	
,	Openings	s: Handr Threa								
		Threa	ded, No.	Lugs _	(Number)	Legs		her (Describe)	Attached	(Where & How)

Page 122 of 148

Marine Committee

Page _____0i

FORM NISCE ATTACHMENT

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 WO # 94-10308-10

1.	Manufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
	2117 Castle Hayne Road, Wilmington, North Carolina 28401

			E N
(h)	Manufactured for	. 77.//	Champagas Tananasa 67466 6467
ιυ,	wandractured 101	: <u></u>	Chattanooga, Tennessee 37402-2127

(Name and Address of H Certificate Holder for completed nuclear component)

- 2. Identification Certificate Holder's S/N of Part : A4494 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: <u>Control Rod Drive</u>. <u>Model</u> # 7RDB144FG005
 - (c) Applicable ASHE 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.

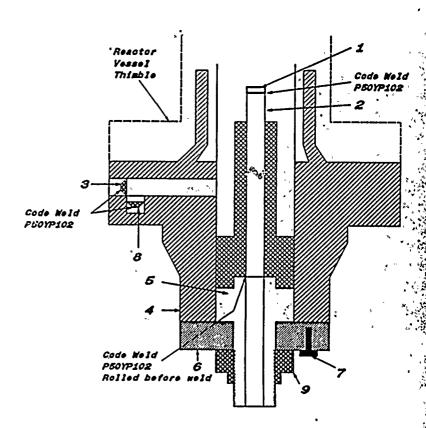
 (Brief description of service for which component was designed)

Sheet 2 of 2

- 1. Cap 166B9274P001 SA182 - F304 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 SA182 - F304 1/4° thick x 0.812° OD
- 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.

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- 6. Ring Flange 114B5122P002, P003 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* dla.
- 9. Nut 137C5934P001 XX.'- 19 SA479 1.30" thick x 2.62" dia.



Page 123 of 148

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Page 1 recommended to the second

				· · · · · · · · · · · · · · · · · · ·					
1. Owner TENNESS	SEE VALLEY AU	THORITY		Date Novemb	er 20	, 1994			
1101 Ma	rket St. Name								
	nooga, TN 37	402-2801		Sheeto	f <u>4</u>	·			
2. Plant Browns				Unit 2	·				
P.O. Box 2000; Decatur, AL 35609-2000 Work Order 94-10308-11 Address Work Order 94-10308-11 Repair Organization P.O. No., Job No., etc.									
3. Work Performed by Nuclear Energy Services Type Code Symbol Stamp N/A Name Authorization No. N/A									
				Authorization No		N/A			
Shelter Rock R	Road: Danbury, C Address	r 06810	-	Expiration Date		N/A			
4. Identification of Sys	stemSystem	85, Contro	1 Rod Dri	ve			·····		
5. (a) Applicable Cons (b) Applicable Editi	struction Code (see	Remarks) 19	Edition,, or Replacement	s 19 <u>86</u>	ddenda,		_Code Case		
6. Identification of Co	mponents Repaired o	r Replaced and F	Replacement Cor	mponents					
							ASME Code		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	Stamped (Yes or No)		
Control Rod	General.	 		P/N					
Drive @ location	Electric	A5463	N/A	768E534G008	1992	Replacement	Yes		
22–19									
Bolting (8 ea)	Vitco		ı	P/N					
for CRD location	Nuclear	N/A	N/A	137C9293P00	N/A	Replaced	No		
22-19	Products, Inc			HT # 61811					
					<u> </u>				
				t Control Rod			and		
7. Description of Work	bolting mat	erial on C	control Ro	d Drive Mecha	nism 1	Lange.			
	Hydrostatic Pn Other Pressure		ominal Operating Test Temp						
NOTE: Supplemention in items 1 thronger recorded at the top	ough 6 on this report	lists, sketches, o	or drawings may each sheet, and	be used, provided (1) (3) each sheet is num	size is 8½ nbered an	i in. × 11 in., (2) i d the number of	nforma- sheets is		

(12/82)

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

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed
	Applicable Manufacturer's Data Reports to be attached
	per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the
	inspection boundary.
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	N207 1361-2 Class 1: Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric
	Installation Specification 22A2125.
	•
Г	CERTIFICATE OF COMPLIANCE
l	We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the
l	ASME Code. Section XI.
	Home double with
	~)
	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date N/A
ļ.	Signed Hillest, System ENGINEER Date NOVEMBER 20 , 19 94
Г	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 TENN. and employed by H587 F.T. of
	in this Owner's Report during the period 7/6/94 to 1/23/94 , 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.
l	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
l	Inspection,
	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
	Inspector's Signature Commissions National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
	Date
	Date19_77

6022.2841

SHEET 20F4

FORM NIS-2 ATTACHMENT FOR 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
WO # 94-10308-

hufactured & Certified by: General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)

2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Name and Address of MPT Certificate Holder)

Chattanooga, Tennessee 37402-2127 (b) Manufactured for : _TVA

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

Identification - Certificate Holder's S/N of Part : _A5463_ _ 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 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 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 ASKE 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 Certification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

Date: 07/29/92

Signed GE - NEBG - NF & CM - QA (NPT Certificate Holder)

Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : 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 Hanberg Prof. Eng. State Calif. Reg. No. 15570

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 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 1975. 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.

7/27.1992 Jum 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". (47/94)

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5022,2842

FORM NIS-2 ATTACHMENT. SHEET 3 & 4 WO#94-10308-11

FORM N-2 (back)

Ite	ms 4-8 Incl. to be completed for a	ingle wall vessels, jacket	s vessels, or shells of heat	exchangers.
4.	Shell: Haterial T.S. (Nond & Spec. No.) (Min. of F	Mominal Co Thickness in. Al	rrosion lowance in. Dia ft	in. Length ft in.
5.	Seams: Long	н.т.	R.T	Efficiencyx
		н.т	· r.t	
6.	Heads: (a) Material	T.S	(b) Haterial	T.S
(a)	Location (Top Crow Bottom, Ends) Thickness Radi	n Knuckle Elliptical us Radius Ratio	Concial Hemispherical Apex Angle Radius	Flat Side to Press. 4 Diameter (conv. or conc.)
(0,	If removable, bolts used [Me	Indel Sans No. 78 Standburbers	Other fastening	
7.	Jacket Closure:			
			sar give dimensions, if botts, describe or sketc Drop W Charpy	eightft-lb
8.	Design pressure 1250	ps1 at	F at tem	p ofF
	ms 9 and 10 to be completed for tu			
9.	Tube Sheets: Stationary, Materi Floating, Materi	al Dia al Dia	(Subject to pressure) Thickness Thickness	in. Attachment (Welded, Boiled) Attachment
10.	Tubes: Material	0.0 in. Thicl	knass Inches orgage. N	Iype [Sv. or U]
Ite	ms 11 - 14 incl. to be completed f	or inner chambers of jacke	ted vessels, or channels of h	eat exchangers.
11.	Shell: Material	Thickness in. Al	rrosion lowance in. Dia ft	In. Length ft In.
12.	Seams: Long	H.T	R.T	EfficiencyX
	Girth	1 8		No. of Courses
13.	Heads; (a) Material	f.s	(b) Haterial	T.S
(a)	Location Thickness Radi	us Radius Ratio	Concial Hemispherical Apex Angle Radius	Flat Side to Press. Diameter (conv. or conc.)
(b)	Channel If removable, bolts used (a)	(b) (c)	Other fastening	
			Drop W Charpy	eightft-lb
	Oesign pressure		Fat tem	p of F
ite	ms below to be completed for all v	essels where applicable.		······································
15.	Safety Valve Outlets: Number	Size	Locati	on
16.	NOZZ les: Purpose (Inlet, Outlet, Oraln) Number	Dia. or Size Type	Material Thickness	Reinforcement Material How Attached
17.		Size Size	Location	
18,		ys Legs	Other (Describe)	Attached (Where & How)
	1 . If Postweid Heal-Treated.			

[.] Ust other internal or external pressure with coincident temperature when applicable

Row in the second section of the second

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 WO # 94-10308-11

1. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM).

2117 Castle Hayne Road, Wilmington, North Carolina, 28401

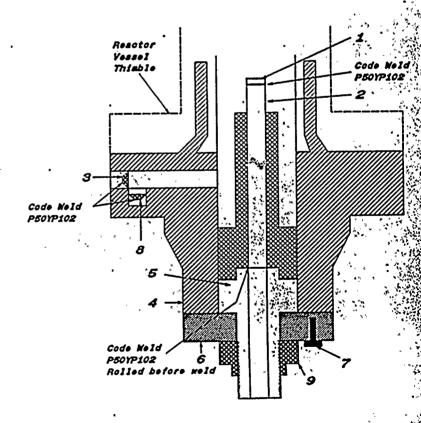
			(Name and Address of MPT Certificate Holder)	
			the control of the co	
(b)	Hanufactured f	for :	TVA Chattanooga, Tennessee 37402-2127	
(0)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	(Name and Address of M Cartificate Roller for completed nuclear component	Ł

- 2. Identification Certificate Holder's S/N of Part : A5463 Natl 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. 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 - F304 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 SA182 - F304 1/4" thick x 0.812" OD
- 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.
- 6. Ring Flange 114B5122P002, P003 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.
- 9. Nut 137C5934P001 XM - 19 SA479 1.30' thick x 2.62' dia.



Page 128 of 148

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1. Owner_TENNESS	SEE VALLEY AU	THORITY		Date Novemb	er 20,	, 1994	
1101 Ma	rket St. Name						
Chattan	ooga, TN 37	402-2801		Sheet 1 o	_f 4		
	Address						
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2			
D O Pass 200	*******	AT 25600-	2000	Uanle Ondan	0/-103	20012	
P.O. BOX 200	0; Decatur,	AL 33009-	2000	Work Order Repair Organ	lization P	.O. No., Job No.,	etc.
3. Work Performed by	Nuclear Elle	Name	es	Type Code Symbol S	Stamp	N/A	
Challton Daole De	anda Dambuume M	06010		Authorization No Expiration Date	N N		
SHELLEL ROCK IN	oad; Danbury, CI	. 00010		Expiration Date	L	1/ A	
4. Identification of Sys	stemSystem	85, Contr	ol Rod Dr	ive			
•	,						
5. (a) Applicable Cons	truction Code_(Sec	Remarks) 19	Edition,	A	ddenda,		Code Case
(b) Applicable Editi	on of Section XI Util	ized for Repairs	or Replacement	s 19 <u>86</u>			
6. Identification of Cor	mponents Repaired o	r Replaced and F	Replacement Cor	mponents			
	,			1			1 1
							ACME
1							ASME Code
			National			Repaired,	Stamped
Name of	Name of	Manufacturer	Board	Other	Year	Replaced,	(Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
		.,,,				<u> </u>	
Control Rod	General	4.6200	NT / A	P/N	1992	Popleoment	Yes
Drive @ location	Electric	A4280	N/A	768E534G008	1992	Replacement	les
38–23							
5 1 1 (0)	77.			77/77			
Bolting (8 ea)	Vitco	57.1A	37.4	P/N	37/4	D	,,,
for CRD location	Nuclear	N/A	N/A	137C9293P001	N/A	Replaced	No
38-23	Products, Inc		ļ	HT # 61811		1	
						<u> </u>	
				nt Control Ro			m and
7. Description of Work	bolting mat	erial on C	ontrol Ro	d Drive Mecha	nism i	Lange.	
				•			
8. Tests Conducted:	Hydrostatic Pn		ominal Operating	g Pressure 🔀			
	Other Pressure_	N/A psi	Test Temp	<u>N/A</u> °F			
							
NOTE: Supplement	tal sheets in form of	lists, sketches, o	or drawings may	be used, provided (1)	size is 8½	in. x 11 in., (2) i	informa-
tion in items 1 thro	ough 6 on this report	is included on	each sheet, and	(3) each sheet is num	bered an	d 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

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed
	Applicable Manufacturer's Data Reports to be attached
	per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the
	inspection boundary.
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Electric
	Installation Specification 22A2125.
Г	CERTIFICATE OF COMPLIANCE
İ	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ĺ	ASME Code, Section XI.
	1
	Type Code Symbol StampN/A
	Type code Symbol Stamp
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed William SysTEM ENGINEER Date NOVEMBER 20 , 1994
	Signed TAND VIEW DATE 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>TENN</u> and employed by <u>HSBI</u> €I
	have inspected the components described in this Owner's Report during the period. 7/6/94 to 11/23/94, 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,
	alt Ill
	Commissions N86908 TN 3135 Inspector's Signature National Board, State, Province, and Endorsements
	Date
ŀ	The state of the s

FORM NIS-2 ATTACHMEN

SHEET 2 OF 4

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

As required by the Provision of the ASME Code Rules; Section III: Direct

1. Hanufacture & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
211. Castle Havne Road.* Wilmington.* North Carolina 28401 (Rame and Address of BFT Cartificate Bolder)
(b) Innufactured for : TVA Chattanooga Tennessee 37402-2127 (Name and Address of R Certificate Holder for completed nuclear component)
2 Id tification - Certificate Holder's S/H of Part: A4280 Nat'l Bd. No. N/A (b) Description of Part Inspected: Control Rod Drive: Model # 7RDB144FG005
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 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).
Oate: 09/10/92 Signed GE-NEBG-NF & CM-OA By SC OF Representive)
Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPTN-1151
Cortification of Design for Appurtenance
Design information on file atGE Company, San Jose, California
Stress analysis report on file at GE Company. San Jose . California
DC22A6253 Rev. 1 Design specification certified by <u>Blorn Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshilo</u> Prof. Eng. State <u>Calli.</u> Reg. No. <u>M018646</u>
·
Cartification 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 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 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.
9/10 . 1992 Jacome P Chees NC 1231. Ohlo. WC 3686 PA 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".

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PORM N-2 (back)

FORM NIS-2 ATTACHMENT'S SHEET 3 OF 4 WO # 94-10308-12

-	Shell:	Material (10	T nd & Spec, No.)	.S	Nominal Thickness Specified)	in. A	errosion Novance	In. Dia f	t In. I	Length	_ ft
	Seams:	Long		-	H.T.		R.T.		Effici	ency	
•					1						
	Vosda.									_	
								iterial			
٠,	Bottom,				Radius	Ratio		Hemispherical Radius	Flat Diameter		
,	If remo	vable. bo	lts used				Other faster	iina			
	Jacket	Closure:		(Material	l, Spec. No., T.S.	Site Humber)			Describe or attach	ehetch }	
		•		(De	ecribe as ogee ar	nd weld, ber, etc. If	ber give dimensions,	f bolts, describe or stat Drop Charp	ch) Weight y Impact		
	Des Ign	pressure		1250	ps	1 at	575	_°F at te	mp of		°F
en	s 9 and	10 to be	completed	for tube	sections						
	Tube Sh	eets: St	ationary.	Material	(IQnd & Sn	D18	(Subject to pressu	Thickness Thickness	in. A	tachment	(Welded Ro
		FI	oating.	Material		014		Thickness	in. A	tachment	(110-010-010-0
								Inches or gage.			
				laked for	Anna abaal	are of tacks	ted veces le	r channels of	heat exchange	rs.	
					Vandas 1				······		ft
	She 11:	Haterial (M	T nd & Spec. No.)	.S	Hominal Thickness Specified)	in. Al	Prosion	in. Dia f	t in. l	ength	
•	Shell: Seams:	Material (19) Long	T nd & Spec. No.)	.S	Kominal Thickness Specified) H.T.	in. Al	Prosion -	in. Dia f	t in. l Efficie No. of	ength	
	Shell: Seams:	Material (19) Long	T nd & Spec. No.)	.S	Kominal Thickness Specified) H.T.	in. Al	Prosion -	in. Dia f	t in. l Efficie No. of	ength	
,	Shell: Seams: Heads: Loca	Material (16) Long Girth (a) Mate	T T d & Spec. No.)	Crown	Kominal Thickness Specked) H.T. H.T. Knuckle	In. Al	R.T R.T (b) He Concial Apex Angle	in. Dia f	t in. L Efficie No. of T. Flat Diameter	CoursesSide to (conv.	Press or conc.)
,	Shell: Seams: Heads: Loca	Material (16) Long Girth (a) Mate	T T d & Spec. No.)	Crown	Kominal Thickness Specked) H.T. H.T. Knuckle	In. Al	R.T R.T (b) He Concial Apex Angle	in. Dia f	t in. L Efficie No. of T. Flat Diameter	CoursesSide to (conv.	Press. :
	Shell: Seams: Heads: Loca	Material (16) Long Girth (a) Mate	T T d & Spec. No.)	Crown	Kominal Thickness Specked) H.T. H.T. Knuckle	In. Al	R.T R.T (b) He Concial Apex Angle	in. Dia f	t in. L Efficie No. of T. Flat Diameter	ength	Press. or conc.)
}	Shell: Seams: Heads: Loca Top,bot Channel If remo	Katerial (16) Long Girth (a) Mate tion tom,ends vable, bo	Thickness	Crown Radius	Hominal Thickness Specked) H.T. H.T. Knuckle Radius	T.S. Elliptical Ratio (c)	R.T R.T R.T R.T R.T P.T R.T R.T R.T R.T R.T P.T. Apex Angle Other	terial Hemispherical Radius Fastening Orop Charp	t in. l Efficie No. of T. Flat Diameter Waight y Impact	Courses	Press. or conc.)
1)	Shell: Seams: Heads: Loca Top.bot Channel If remo	Material (16) Long Girth (a) Mate tion tom,ends vable, bo	Thickness	Crown Radius	Hominal Thickness Specked) H.T. H.T. Knuckle Radius	I.SElliptical Ratio(c)	R.T R.T (b) He Concial Apex Angle	terial Hemispherical Radius Fastening Orop Charp	t in. L Efficie No. of T. Flat Diameter	Courses	Press. or conc.)
() ()	Shell: Seams: Heads: Loca Top.bot Channel If remo Design s below	Material (16) Long Girth (a) Mate tion tom,ends vable, bo pressure	Thickness Its used (Crown Radius	Hominal Thickness Specked) H.T. tH.T. Knuckle Radius (b)	T.SElliptical Ratio(c)	R.T R.T R.T R.T R.T P.T R.T R.T R.T R.T R.T P.T. Apex Angle Other	terial	t in. L Efficie No. of To Flat Diameter	Courses	Press. or conc.)
() (em	Shell: Seams: Heads: Loca Top.bot Channel If remo Design s below Safety	Katerial (16) Long Girth (a) Mate tion tom,ends vable, bo pressure to be co Valve Out	Thickness Its used (Crown Radius	Hominal Thickness Specked) H.T. H.T. Knuckle Radius	T.SElliptical Ratio(c)	R.T R.T R.T R.T R.T P.T R.T R.T R.T R.T R.T P.T. Apex Angle Other	terial Hemispherical Radius Fastening Orop Charp	t in. L Efficie No. of T. Flat Diameter Veight y Impact mp of	courses	Press. or conc.)
() (em	Shell: Seams: Heads: Loca Top.bot Channel If remo Design s below Safety	Material (16) Long Girth (a) Mate tion tom,ends vable, bo pressure	Thickness Its used (Crown Radius	Hominal Thickness Specked) H.T. tH.T. Knuckle Radius (b)	T.SElliptical Ratio(c)	R.T R.T R.T R.T R.T P.T R.T R.T R.T R.T R.T P.T. Apex Angle Other	terial	t in. L Efficie No. of To Flat Diameter	ength	Press. or conc.)
(em	Shell: Seams: Heads: Loca Top.bot Channel If remo Design s below Safety Nozzles	Katerial (16) Long Girth (a) Mate tion tom,ends vable, bo 2 pressure to be co Valve Out : Purpose (1)	Thickness Thickness Its used (Crown Radius a)	Kominal Thickness Specied) H.T. H.T. Knuckle Radius (b)	T.S. Elliptical Ratio (c) ssi at spplicable. Type	R.T R.T R.T R.T R.T R.T Ob) Hardel	in. Dia f iterial Hemispherical Radius fastening Charp F at te	tin. LEfficieNo. ofT. Flat Diameter	ength	Press. or conc.)
i em	Shell: Seams: Heads: Loca Top.bot Channel If remo Design s below Safety Nozzles	Katerial (16) Long Girth (a) Mate tion tom,ends vable, bo Pressure to be co Valve Out Purpose (i Occost, Ora	Thickness Its used (Inpleted for lats: Number of lats, No holes, No holes, No	Crown Radius a)	Kominal Thickness Specified) H. I. H. I. Knuck le Radius (b)	T.S. Elliptical Ratio (c) osi at applicable. Size	R.T R.T R.T R.T R.T R.T R.T Ob) Harding Other	in. Dia f iterial Hemispherical Radius fastening Charp. F at te	tin. LEfficie No. ofTo	ength	Press. or conc.)

I • If Postweld Heal-Treated.

Page 132 of 148

[.] Ust other internal or external pressure with coincident temperature when applicable.

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HEET 4 OF 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,

Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)

2117 Castle Havne Road, Wilmington, North Carolina 28401 (Hame and Address of MPT Certificate Holder)

Chattanooga: Tennessee 37402-2127 (b) Hanufactured for : _TVA

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

2. Identification - Certificate Holder's S/N of Part : A4280 Nat'l Bd. No.

(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dig. 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

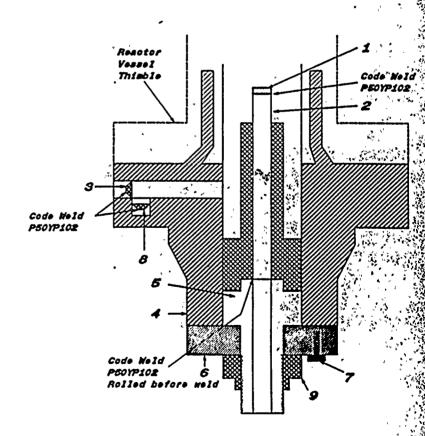
REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min (Brief description of service for which component was designed)

Sheet 2 of 2

- 1. Cap 166B9274P001 SA182 - F304 3/8" thick x 1 1/16" OD
- 2. Indicator Tube 166B9313P001 SA312 - TP316 3/4° sch 40 - seamless pipe 0.113° wall thickness 1.065° max. dla.
- 3. Plug 159A1176P001 SA182 - F304 1/4" thick x 0.812" OD
- 4. Flange 919D610P001 (719E474) SA182 - F304 3.37° th/ck 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° th/ck x 5.0° OD x 1.75° ID
- 7. Cao Scraw 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.

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9. Nut 137C5934P001 XM - 19 SA479 1,30° thick x 2.62° dia.



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1. Owner_TENNESS	SEE VALLEY AU	THORITY		Date Novembe	r 20,	1994	
1101 Ma	rket St. Name			Dato			
Chattar	nooga, TN 37	402-2801		Sheet0	4		
	Address		-				
2. Plant Browns	Ferry Nuclea	r Plant		Unit2			
P.O. Box 200	00: Decatur.	AL 35609-	-2000	Work Order	94-10	308-13	
	00; Decatur, Address			Repair Organ	ization P.	O. No., Job No.,	etc.
3. Work Performed by	Nuclear Ene	rgy Servic	es	Type Code Symbol S	Stamp	N/A	
		Name		Authorization No		N/A	
Shelter Rock R	oad; Danbury, C	r 06810		Expiration Date	<u> </u>	<u>A</u>	
	Address			_			
4. Identification of Sys	stem <u>System</u>	85, Contr	col Rod Dr	ive			
		D		•			
5. (a) Applicable Cons					idenda,		_Code Case
(b) Applicable Editi	on of Section XI Uti	lized for Repairs	or Replacements	19 <u>00</u>			
6. Identification of Co.	manante Banairad a	r Benlesed and F	Paniscament Con	nnonente		,	
b. Identification of Co	mponents nepaired c	it Hebiaced and F	replacement Con	uponents			•
							ASME
ł			Newtonel			Repaired,	Code Stamped
Name of	Name of	Manufacturer	National Board	Other	Year	Replaced,	(Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
			:				
Control Rod	General			P/N			
Drive @ location	Electric	A5342	N/A	768E534G008	1992	Replacement	Yes
38-31	mecuric	NJJ42	N/A	70023340000		represente	100
30-31							
Bolting (8 ea)	Vitco			P/N			
	Nuclear	N/A	N/A	137C9293P001	N/A	Replaced	No
for CRD location 38-31	Products, Inc			HT # 61811			
				<u> </u>			
	Replaced Co	de Class I	l equivale	nt Control Ro	d Driv	ze Mechanis	sm and
7. Description of Work	bolting mat	erial on (Control Ro	d Drive Mecha	nism 1	Tange.	
	_	_					
8. Tests Conducted:			ominal Operating				
	Other Pressure_	N/A psi	Test Temp	N/A °F			
NOTE: Supplemen	tal sheets in form of	lists, sketches, o	or drawings may	be used, provided (1) (3) each sheet is num	size is 8½ bered and	: in. x 11 in., (2) i	intorma- sheets is
recorded at the top		t is included on t	cacii sneet, and	(o) cach sheet is fluit	ipaiea alli	a the number of	4.100t 3 13
iocoraca at the top	4119 101111						

(12/82)

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

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated piping was performed Applicable Manufacturer's Data Reports to be attached
	per Surveillance Instruction 2-SI-3.3.1.A of which the aforementioned CRDM being within the
	inspection boundary.
	Applicable Constr. Code - CRDM: ASME Sec. III Class 1, 1974 Edition w/ W'75 Addenda, Code Case No.
	N207 1361-2 Class 1; Bolting Material: USAS B31.1.0 1967 Edition as augmented by General Eelectric
	Installation Specification 22A2125.
Г	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
	ropely or replacement
	ASME Code, Section XI.
	Type Code Symbol Stamp
ı	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date N/A
ŀ	
	Signed Holly Latert, System ENGINEER Date NOVEMBER 20, 1994
	Owner or Owner's Designee, Title
Г	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 TENN and employed by HSBT ET
Ì	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.
	Amicon Turing
	Inspector's Signature Commissions NB6908 TN 3/35 National Board, State, Province, and Endorsements
	inspector solutional delicorse in inspector solution in inspector
	, 4444 22
	Date

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FORM NIS-2 ATTACHMENT SHEET 2 OF4

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

		WO # 94-10308-13
1.	Haf	Ifactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
		2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Name and Address of MFT Certificate Holder)
	ľы	Manufactured for : TVA Chattanooga, Tennessee 37402-2127
		(Name and Address of M Certificate Holder for completed nuclear component)
//s·	// Iden	ntification - Certificate Holder's S/N of Part : A5342 - Nat'l Bd. No. N/A
V	(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 ASRE Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class 1
3.		RKS: <u>Standard pa:1 for use with Reactor. Hydrostatically tested at 1825 psi, min.</u>
		(Brief description of service for which component was designed)
		Sheet 1 of 2
	Reports re	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:	O7/29/92 Signed <u>GE - NEBG - NF & CM - QA</u> By CO QA Representive)
	Certi	ficate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPT.N-1151
		Certification of Design for Appurtenance
	0es í	gn information on file at <u>GE Company, San Jose, California</u>
i		ss analysis report on file atGE Company , San Jose , California

Certification of Design for Appurtenance
Design Information on file atGE Company, San Jose, California
Stress analysis report on file at <u>GE Company</u> , San Jose, California
OC22A6253 Rev. 1 Design specification certified by <u>Biorn Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</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 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 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 parties employer makes any verseable and accordance of the section of t 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 Jewine Cherry Inspector's Signature NC 1231. Ohlo. WC 3686 PA
National Board, State, Province And No. Date

*Supplemental sheers 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". (87/90)

Page 136 of 148

THE RESTRICTION ASSESSMENT

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FORM NIS-2 ATTACHMENT SHEET 3 OFY WO # 94-10308-13

FORM N-2 (back)

	Shell: Hate	rialT.	.\$	Mominal Thickness	in. Al	rrosion lowance i	n. Dia ft	in. L	ength	ft
		· · · · · · ·	-				•			
•	Seams: Long			1						
	Girt	h		н.т.		· R.T		_ No. of	Courses	
	Heads: (a)	Haterial			T.S	(b) Ha	terial	т.	s	
	Location (T	op) Thickness	Crown	Knuck le Radius	Elliptical	Conclai _	Hemispherical	Flat Diameter	2106 to P	ress. 🏲
b)	If removable	, bolts used				Other faster	ılna	 `		
			f Material	P.T. AM SAA?	Size Momber 1		10	eecribe or attach s	hetch)	
•	Jacket Closu	/re:	(0+	scribe as oges ar	nd weld, ber, etc. #	ber give dimensions, i	l bolts, describe or sheld Drop V	5)		
							Drop W Charpy	eight		ft-1b
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		o be completed							··	
•	Tube Sheets:	Stationary.	Material	I Mad 1 Co	Dia	Subject to cream	Thickness _	In. At	tachment _	(Weided, Bolt
		Floating.	Haterial	(NAME & SP	Dia	·	Thickness _	in. At	tachment _	,
x	Tubes: Mate	erial		0.0.	in. Thic	kness	Inches or gage. N	umber	Тура	(St. or U
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	Shell: Mate Seams: Long Girt	erial To To (Kind & Spec. No.)	. S. (Min. of Rang	Nominal Thickness e Specified) H.T.	In. Al	R.T.	in. Dia ft	in. L Efficie _ No. of	ength	
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· · · · · · · · · · · · · · · · · · ·	Shell: Mate Seams: Long Girt Heads: (a) Location Top.bottom.e	erial T (Mnd & Spec. No.) th Haterial Thickness	Crown	Nominal Thickness e Specified) H.T. H.T. Knuckle	In. Al	R.T. R.T. (b) Ma Concial Apex Angle	nterial Hemispherical Radius	in. L Efficie No. of T. Flat Diameter	ength Courses S Side to F	ress.
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	Shell: Mate Seams: Long Girt Heads: (a) Location Top.bottom.e	erial T (Mnd & Spec. No.) th Haterial Thickness	Crown	Nominal Thickness e Specified) H.T. H.T. Knuckle	In. Al	R.T. R.T. (b) Ma Concial Apex Angle	in. Dia ft aterial Hemispherical Radius r fastening	in. L Efficie No. of T. Flat Diameter	ength ency Courses S Side to F (conv. c	ress. or conc.)
a) b)	Shell: Mate Seams: Long Girt Heads: (a) Location Top.bottom.e Channel If removable	in tal I (Mnd & Spec. No.) th Katerial I hicknessends the control of the c	Crown Radius	Hominal Thickness Percental H.T. H.T. Knuckle Radius (b)	T.S. Elliptical Ratio (c)	R.T. R.T. (b) He Concial Apex Angle	Hemispherical Radius Orop W Charpy	Efficiency No. of T. Flat Diameter (December 1) Fight (December 1)	courses	ress. r conc.)
b)	Shell: Mate Seams: Long Girt Heads: (a) Location Top.bottom, Channel If removable	rial T (Mnd & Spec. No.) th	Crown Radius	Nominal Thickness e Specified) H.T. H.T. Knuck le Radius	T.S Elliptical Ratio (c)	R.T. R.T. (b) Marce Angle Other	Hemispherical Radius Orop W Charpy	in. L Efficie No. of T. Flat Diameter	courses	ress. r conc.)
a) b)	Shell: Mate Seams: Long Girt Heads: (a) Location Top.bottom.c Channel If removable	Thickness a, bolts used (Crown Radius	Hominal Thickness Specified) H.T. H.T. Knuck le Radius (b)	T.S	R.T (b) MacConcial Apex Angle Other	Hemispherical Radius Orop W Charpy F at tem	Efficie No. of T. Flat Diameter eight Impact p of	courses	ress. r conc.)
(a) b)	Shell: Mate Seams: Long Girt Heads: (a) Location Top.bottom.c Channel If removable	rial T (Mnd & Spec. No.) th	Crown Radius	Hominal Thickness Specified) H.T. H.T. Knuck le Radius (b)	T.S	R.T. R.T. (b) Marce Angle Other	Hemispherical Radius Orop W Charpy	Efficiency No. of T. Flat Diameter Geight (Description of)	ength ency Courses S Side to f (conv. c	ress. r conc.)
(a) (b)	Shell: Mate Seams: Long Girt Heads: (a) Location Top.bottom.c Channel If removable Design press ms below to b Safety Valve Nozzles: Pun	Thicknessed, be completed for e Outlets: Numpose (Met,	Crown Radius	Hominal Thickness Specified) H.T. H.T. Knuck le Radius (b)	T.S. Elliptical Ratio (c) psi at applicable. Size	R.T. R.T. (b) He Concial Apex Angle Other	Hemispherical Radius Orop W Charpy F at tem	Efficie No. of T. Flat Diameter eight Impact p of	ength ency Courses S Side to F (conv. co	ress. r conc.)
(a) (b)	Shell: Mate Seams: Long Girt Heads: (a) Location Top.bottom.c Channel If removable Design press ms below to b Safety Valve Nozzles: Pun	th Thickness ands the completed for e Outlets: Numpose (Met, Crain)	Crown Radius a)	Hominal Thickness Percented) H.T. H.T. Knuckle Radius (b) Sels where	T.S. Elliptical Ratio (c) psi at applicable. Type	R.T. R.T. (b) He Concial Apex Angle Other	Hemispherical Radius r fastening Charpy F at ten Locati	Efficie No. of T. Flat Diameter eight Impact p of Reinforce Material	ength ency Courses S Side to f (conv. co	ress. r conc.) ft-lb F
(a) (b)	Shell: Mate Seams: Long Girt Heads: (a) Location Top.bottom.c Channel If removable Design press ms below to b Safety Valve Nozzles: Pun	th Thicknessends	Crown Radius a)	Hominal Thickness Percented) H.T. H.T. Knuckle Radius (b) Sels where	T.S. Elliptical Ratio (c) psi at applicable. Size Type	R.T. R.T. (b) Harman Appex Angle Other	Hemispherical Radius Transper Williams Fat ter Locati Thickness Location Location	Efficie No. of T. Flat Diameter eight impact p of Reinforce Material	ength ency Courses S Side to f (conv. c	ress. r conc.) ft-1b ft-1b ow Attached
(a) (b)	Shell: Mate Seams: Long Girt Heads: (a) Location Top.bottom,e Channel If removable Design press ms below to b Safety Valve Nozzles: Pun Inspection	th Thicknessends	Crown Radius a)	Hominal Thickness Page Specified H.T. H.T. Knuck le Radius (b) Sels where	T.S. Elliptical Ratio (c) psi at applicable. Size Type Size Size Size	R.T. R.T. (b) He Concial Apex Angle Other	Hemispherical Radius Prop W Charpy F at ter Locati	Efficie No. of T. Flat Diameter Gight Impact On Peirdorce Malerial	ength ency Courses S Side to f (conv. co	ress. r conc.) ft-1b ft-1b ow Attached

1 - 2 Postweld Heal-Treated.

[.] Ust other internal or external pressure with coincident temperature when applicable

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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. Hanufactured & Certified by: General Electric Company Nuclear Fuel & Components Manufacturing (GE NF & CM)

2117 Castle Havne Road, Wilmington, North Carolina 28401

(Name and Address of NFT Certificate Bolder)

(b) Manufactured for: TVA Chattanooga Tennessee 37402-2127

(Name and Address of B Certificate Jolder for completed nuclear component)

2. Identification - Certificate Holder's S/N of Part: A5342 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

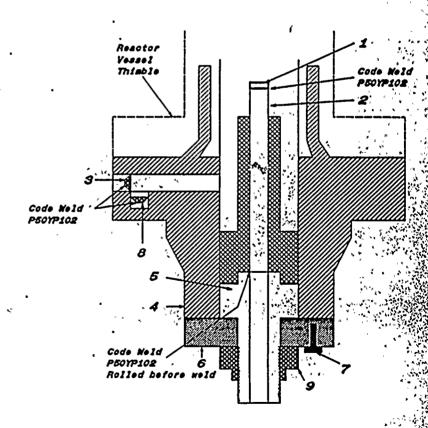
3. REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min.

(Brief description of service for which component was designed)

1- ,

Sheet 2 of 2

- 1. Cap 166B9274P001 SA182 • F304 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 SA182 • F304 1/4° thick x 0.812° OD
- 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.
- 6. Ring Flange 114B5122P002, P003 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.
- 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.



Page 138 of 148



FORM LIST FROM WIEGT

said to be

	As nequi	ted by the Fro	VISIOIIS OF THE P	(SIME Code Section	1 / 1		
1. Owner_TENNESS	SEE VALLEY AU	THORITY		Date Novembe	r 20,	1994	
1101 Ma	arket St. Name						
Chattar	nooga, TN 37	402-2801		Sheet 1 o	<u> </u>		
2. Plant Browns	Ferry Nuclea	r Plant		Unit 2			
P.O. Box 200	00; Decatur,	AL 35609-	-2000	Work Order			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•		.O. No., Job No.,	
3. Work Performed by	Nuclear Ene	ergy Servic Name	es	Type Code Symbol S Authorization No	Stamp	N/A N/A *	·
Shelter Rock R	oad; Danbury, C	r 06810		Expiration Date	Ŋ	I/A	
	• • • • • • • • • • • • • • • • • • • •						•
4. Identification of Sys	stem System	85, Contro	ol Rod Driv	ve			
5. (a) Applicable Cons	truction Code_USAS	S_B31.1.0_19	67Edition	N/A A	ddenda,	N/A	_Code Case
	on of Section XI Uti				,		_
6. Identification of Co	mponents Repaired o	r Replaced and F	Replacement Con	nponents			
			National			Repaired,	ASME Code Stamped
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Replaced, or Replacement	(Yes or No)
Bolting (8 ea) for CRD location	Vitco Nuclear	N/A	N/A	P/N 137C9293P001	N/A	Replaced	No
42-47	Products, Inc			HT # 61811			
	d.						
	<u> </u>		1 1 0	de Class 1 e		ant Contra	1 Pad
7. Description of Work	Drive Mecha	olting mate inism 42-47	rial on Co / flange.	ode Class I e	quiva	tent Contro	or Kod
7. Description of work							
8. Tests Conducted:	Hydrostatic Pn Other Pressure	eumatic No N/A psi	ominal Operating Test Temp	Pressure X N/A °F			
NOTE: Supplemen tion in items 1 thro recorded at the top	ough 6 on this report	lists, sketches, o	or drawings may each sheet, and (be used, provided (1) (3) each sheet is num	size is 8½ abered an	in. x 11 in., (2) i d the number of	informa- sheets is
(12/82)	This Form (E0003	0) may be obtain	ned from the Ord	er Dept., ASME, 345	E, 47th S	it., New York. N.	Y. 10017

*as augmented by General Electric Installation Specification 22A2125

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated
•	Applicable Manufacturer's Data Reports to be attached piping was performed per Surveillance Instruction 2-SI-3.3.1.A of which the
	aforementioned CRDM being within the inspection boundary.
	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 Silver of Owner's Designee, Title System ENGINEER Date November 20 , 19 94
	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 TENN and employed by 1/567.87
	HARTFORD, CT have inspected the components described in this Owner's Report during the period 10/5/94 to 11/22/94, 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.
	111 2-11.
	inspector's Signature Commissions <u>NB6408 T/V 3/35</u> National Board, State, Province, and Endorsements
	Date

						 	
1. Owner_TENNESS	SEE VALLEY AL	TTYOR TTY	•	n Novembe	r 20	1994	
1. Owner 1101 Mg	arket St. Name	INORLLI		Date Novembe	<u>L 20,</u>	1994	
		402-2801		Sheet o	, 1		
	nooga, TN 37						
2. Plant Browns	Ferry Nuclea	r Plant	 	Unit 2		4	
					01 10	000 15	
P.O. Box 200	00; Decatur,	AL 35609-	-2000	Work Order	94-10.	308-17 .0. No., Job No.,	etc.
		L .		Type Code Symbol S			
3. Work Performed by	Nuclear_Bue	Name	<u>.es</u>	Authorization No	stamp	N/A	
Shelter Rock R	oad; Danbury, C	г 06810		Expiration Date	1	N/A	
	Address						
4. Identification of Sys	stem <u>System</u>	85, Contro	ol Rod Driv	ve			
	***	0 701 1 0	<u> </u>	5 37/4		27/4	
5. (a) Applicable Cons					ddenda,	N/A	_Code Case
(b) Applicable Editi	ion of Section XI Uti	lized for Repairs	or Replacements	19 <u>00</u>	•		
6. Identification of Co.	mnonente Renaired o	or Replaced and F	Renlacement Con	oponents			
o, lacitification of co.	inponents repaired t	, replaced one r	Topicocinone con				
		·					ASME Code
			National			Repaired,	Stamped
Name of	Name of	Manufacturer	Board	Other	Year	Replaced,	(Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
	ļ		<u>'</u>			r	
Bolting (8 ea)	Vitco Nuclear	, ,		P/N			
for CRD location		N/A	N/A	137C9293P001	N/A	Replaced	No
06-27				HT # 61811			
	ļ						
					1	!	
						I	
<u></u>	Replaced b	olting mat	erial on (Code Class 1	equiva	alent Contr	ol Rod
7. Description of Work					_		
	Hydrostatic Pr						
	Other Pressure_	N/A psi	Test Temp	N/A °F			
					1. 01	(to 44 to (0) t	
NOTE: Supplemen	tal sheets in form of	lists, sketches, o	or drawings may	be used, provided (1) (3) each sheet is num	\$128 IS 8% Shered an	the number of	intorma- sheets is
recorded at the top		t is included on	cacir silcot, and	(0) Cacil Silect 13 flair			
(12/82)	This Form (E0003	(0) may be obtain	ned from the Ord	ler Dept., ASME, 345	E, 47th 9	St., New York, N.	Y. 10017
· · ·	, ,					,	
* as augmented	hy General F	Electric Tr	nstallatio	n Specificati	on 22	A2125	

Page __141__ of __148__

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated
•	Applicable Manufacturer's Data Reports to be attached
	piping was performed per Surveillance Instruction 2-SI-3.3.1.A of which the
	aforementioned CRDM being within the inspection boundary.
	•
_	
	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
l	ASME Code, Section XI. repair or replacement
	·
	*·
	Type Code Symbol StampN/A
İ	Certificate of Authorization No. N/A Expiration Date N/A
1	SAN LAMON - TO ME OR ON
	Signed Hilliest, SYSTEM ENGINEER Date NOVEMBER 20, 19 94
_	Owper or Owner's Designee, Title
ļ	CERTIFICATE OF INSERVICE INSPECTION
i i	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
ı	or Province of TENN and employed by #58 I ET of
į	HART FORD, CT. have inspected the components described in this Owner's Report during the period. 10/5/94 to 11/23/94 , and state that
į	in this Owner's Report during the period 10/5/94 to 11/22/94, and state that
ı	to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
i	Owner's Report in accordance with the requirements of the ASME Code, Section XI.
ı	By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
ı	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
ı	inspection.
	1111 + 201
	Inspector's Signature Commissions National Board, State, Province, and Endorsements
	المنافض المعاملات
	Date
	-

1. Owner_TENNESS	SEE VALLEY AU	THORITY		Date Novembe	r 20.	1994	
1101 Ma	arket St. Name			Date			
Chattai		Sheet o	f <u> </u>				
2. Plant Browns Ferry Nuclear Plant Unit 2							
P.O. Box 200	00; Decatur,	AL 35609-	-2000	Work Order	94-1()308–18 .O. No., Job No.,	etc.
3. Work Performed by		*		Type Code Symbol : Authorization No	Stamp	N/A_	
Shelter Rock	Road: Danbury, (CT 06810		Expiration Date	N	Z/A	
4. Identification of Sy	stemSystem	85, Contr	ol Rod Dri	lve			
5. (a) Applicable Cons (b) Applicable Edit	struction Code <u>USA</u> ion of Section XI Uti	S B31.1.0 ₁₉	67 Edition, or Replacements	N/A A	ddenda,	N/A	_Code Case
6. Identification of Co							
	1						
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)
Bolting (8 ea)	Vitco Nuclear		27.44	P/N	27/4	D1	77.
for CRD location	Products, Inc	N/A	N/A	137C9293P001 HT # 61811	N/A	Replaced	No
18–39				HI # 01011			
						 	
				<u> </u>			
7. Description of Work				ode Class 1 e	quiva]	Lent Contro	1 Rod
8. Tests Conducted:	Hydrostatic Protection Procedure Pressure						
NOTE: Supplemention in items 1 three recorded at the top	ough 6 on this repor	lists, sketches, c t is included on c	or drawings may leach sheet, and (be used, provided (1) (3) each sheet is num	size is 8½ nbered and	in. × 11 in., (2) i d the number of	nforma- sheets is
(12/82)	This Form (E0003	0) may be obtain	ed from the Ord	er Dept., ASME, 345	E. 47th S	t., New York, N.	Y. 10017
*as augmented	by General E	Electric In	nstallation	n Specificati	on 22	A2125	
-		Page.	143 of _	148	•		•

9. Remarks A system leakage test of the Reactor I	Pressure Vessel and associated
Applicable Manufacturer's Data	
piping was performed per Surveillance Instru	uction 2-SI-3.3.1.A of which the
aforementioned CRDM being within the inspect	cion boundary.
The state of the s	•
	ي.
CERTIFICATE OF COMPLI	ANCE
We certify that the statements made in the report are correct and	
ASME Code, Section XI.	repair or replacement
Adivic Code, Cection Att	
Type Code Symbol StampN/A	
Type Code Symbol Stamp	
Certificate of Authorization No. N/A Exp	N/A
Signed William SySTEM ENGINEER	Date MOVEMBER 20 , 19 94
Owner or Owner's Designee, Title	_Date, 13, 13
CERTIFICATE OF INSERVICE	111000000101
I, the undersigned, holding a valid commission issued by the National Board	
or Province of <u>TENN.</u> and employed by <u>HSBZ</u> <u>HARTFORD, CT</u>	
in this Owner's Report during the period 10/5/94 to the best of my knowledge and belief, the Owner has performed examination.	have inspected the components described
in this Owner's Report during the period 1977.	_to, and state that
Owner's Report in accordance with the requirements of the ASME Code, Se	-
By signing this certificate neither the Inspector nor his employer make	
examinations and corrective measures described in this Owner's Report.	
shall be liable in any manner for any personal injury or property damage o	r a loss of any kind arising from or connected with this
inspection.	
1111-401	- 40 A
Commissions	NB 6908 TN 3/35 National Board, State, Province, and Endorsements
Inspector's Signature	National Board, State, Province, and Endorsements
101	
Date	

1. Owner_TENNESS	SEE VALLEY AU	THORITY		Date Novembe	r 20.	1994	
1. Owner 1101 Ma	arket St. Name	, and the area		Date		2001	
		402-2801		Sheet o	, 1		
	nooga, TN 37		•				
2. Plant Browns	Ferry Nuclea	r Plant	 	Unit 2			· · · · · · · · · · · · · · · · · · ·
	00; Decatur,			Work Order			
				-		.O. No., Job No.,	
3. Work Performed by	Nuclear Ene	ergy Servic Namo	ces	Type Code Symbol S Authorization No	Stamp	N/A N/A	
Shelter Rock R	oad; Danbury, C	r 06810		Expiration Date		N/A	
OHOLOGI MOGO	Address			expiration bate	· · · · · · · · · · · · · · · · · · ·	/	
4. Identification of Sys	stemSystem	85, Conti	col Rod Dr	ive			·····························
5. (a) Applicable Cons	emietian Codo IISA	S R31 1 0 10	67 Edition **	N/A A	ddanda	N/A	Code Cere
	on of Section XI Uti				Jue 1100,		_0000 0030
(b) Applicable Luiti	on or section XI ou	11200 101 11000113	Of theplacements				
6. Identification of Co.	mponents Repaired o	r Replaced and F	Replacement Con	nponents			
							ASME Code
			National			Repaired,	Stamped
Name of	Name of	Manufacturer	Board	Other	Year	Replaced,	(Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No) .
Bolting (8 ea)	Vitco Nuclear			P/N			
for CRD location	Products, Inc	N/A	N/A	137C9293P001	N/A	Replaced	No
26 - 59	riodicw, inc	11/21	,	HT # 61811	/	Hopzassi	
20 33						ļ	
			<u></u> _	<u> </u>		<u> </u>	لتبيا
				ode Class 1 e	equiva.	Lent Contro	от коа
7. Description of Work	Drive Mecha	nism 26-59	flange.	 			
							
8. Tests Conducted:	Hydrostatic Pn Other Pressure		ominal Operating Test Temp		•		
NOTE: Supplemen tion in items 1 thro recorded at the top	ough 6 on this report	lists, sketches, of its included on	or drawings may each sheet, and	be used, provided (1) (3) each sheet is num	size is 8½ ibered an	in. x 11 in., (2) id the number of	informa- sheets is
(12/82)	This Form (E0003	0) may be obtain	ned from the Ord	er Dept., ASME, 345	E. 47th S	St., New York, N.	Y. 10017
* as augmented	by General H	Electric I	nstallatio	n Specificati	on 22	A2125	

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated
	Applicable Manufacturer's Data Reports to be attached
	piping was performed per Surveillance Instruction 2-SI-3.3.1.A of which the
	aforementioned CRDM being within the inspection boundary.
	·
_	
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
	ASME Code, Section XI.
	ļ
	Type Code Symbol StampN/A
	Type Code Symbol StampN/A
	Comitions of Australian Na Eupirolian Data N/A
	Certificate of Authorization No. N/A Expiration Date N/A Signed Signed System Engineer Date November 20, 19 94
	SIGNATURA SISTEM ENGINEER DOLL NOVEMBER 20 19 94
	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 TENN. and employed by HSBI &I of
	or Province of TENN. and employed by HSBT 8.T of MARTFORD, C.T have inspected the components described in this Owner's Report during the period 10/5/94 to 11/23/94 , and state that
	in this Owner's Report during the period 10/5/44 to 11/22/44 , 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.
	1111 Thell 1101000 To12120
	Commissions <u>NB6908 TN 3/35</u> Inspector's Signature Commissions National Board, State, Province, and Endorsements
	inspector a digitation and anticontrol in the state of th
	Date
	Date

	As Hedu	ica by the rio	VISIONS OF the F	TOME OOUR OCCUR			
1. Owner TENNESS	Date November 20, 1994						
Chatta	nooga, TN 37	402-2801		Sheet 1 o	f1		
2. Plant Browns Ferry Nuclear Plant				Unit 2			
	1441110			Uank Ondan	04-10	308-20	
P.O. Box 200	Work Order 94-10308-20 Repair Organization P.O. No., Job No., etc.						
3. Work Performed by	Type Code Symbol Stamp N/A						
	Authorization No. N/A						
Shelter Rock Road; Danbury, CT 06810 Expiration Date N/A							
4. Identification of Sys	stem <u>System</u>	85, Contr	col Rod Dr	ive			
5. (a) Applicable Cons (b) Applicable Editi	struction Code <u>USA</u> ion of Section XI Uti				ddenda,	N/A	_Code Case
6. Identification of Co	mponents Repaired o	or Replaced and F	Replacement Con	nponents			e
			National			Repaired,	ASME Code Stamped
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Replaced, or Replacement	(Yes or No)
Bolting (8 ea)	Vitco Nuclear			P/N			
for CRD location	Products, Inc	N/A	N/A	137C9293P001	N/A	Replaced	No
34-59				HT # 61811		•	
						 	
					•	<u> </u>	
	ļ						
7. Description of Work				ode Class 1 e	quival	Lent Contro)1 Rod
	Hydrostatic Processure_						
NOTE: Supplemention in items 1 throrecorded at the top	ough 6 on this repor	lists, sketches, o	or drawings may each sheet, and (be used, provided (1) (3) each sheet is num	size is 8½ nbered an	in. x 11 in., (2) i d the number of	informa- sheets is
(12/82)	This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017						
* as augmented	by General E	lectric In	nstallation	n Specificati	on 22/	A2125	

Page 147 of 148

9.	Remarks A system leakage test of the Reactor Pressure Vessel and associated						
	Applicable Manufacturer's Data Reports to be attached						
	piping was performed per Surveillance Instruction 2-SI-3.3.1.A of which the						
	aforementioned CRDM being within the inspection boundary.						
l	CERTIFICATE OF COMPLIANCE						
l	We certify that the statements made in the report are correct and this replacement conforms to the rules of the						
	ASME Code, Section XI.						
ľ							
	•						
l	Type Code Symbol StampN/A						
1							
	Certificate of Authorization No. N/A Expiration Date N/A						
	Signed Hallin Lilbert, SXSTEM ENGINEER Date NOVEMBER 20, 1994						
	Owner or Owner's Designee, Title						
_							
	CERTIFICATE OF INSERVICE INSPECTION						
	1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State						
	or Province of TENN and employed by HSBILI of have 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.						
l	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,						
	all the last						
	Commissions NB6908 TN 3135						
	Commissions NB6 908 TN 3135 Inspector's Signature National Board, State, Province, and Endorsements						
l	•						
	Date						
	13						

BROWNS FERRY NUCLEAR PLANT

UNIT 2 CYCLE 7

ASME SECTION XI

PRESERVICE INSPECTION 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

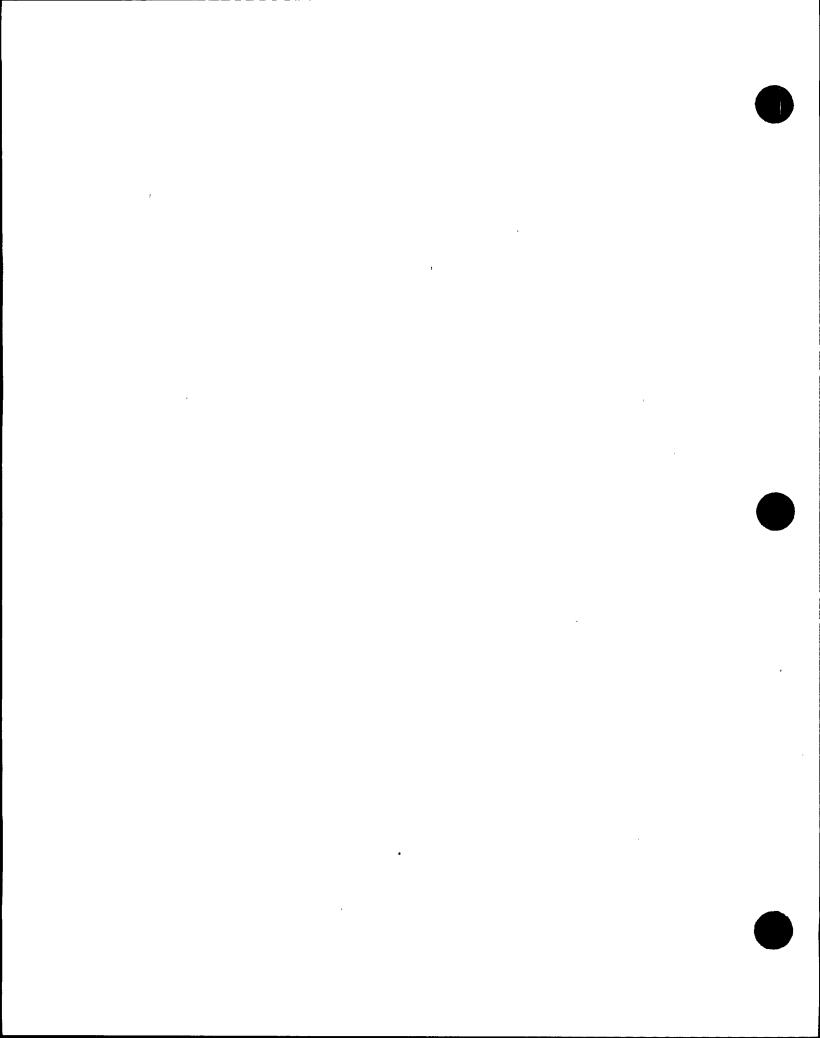
Certificate of Authorization: Not Required

Commercial Service Date: March 1, 1975

National Board Number For Unit: Not Required

The following printout is an Outage Preservice Inspection (PSI) report designed to meet the reporting requirements of IWA-6000 of the ASME Section XI Code. This report contains PSI data for Class 1 and Class 2 components. A legend is given in Appendix 5 of the NIS-1 Report which will describe the abbreviations and features found in the PSI report. No augmented or voluntary examinations are contained in this report.

Class 3 PSI reports are contained in the Browns Ferry Preservice Inspection Plant Report.



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

PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T PRISIH NUTECH PAGE 1
REVISION 0002
DATE 01/12/95 SYSTEM : HSS HAIN STEAM SYSTEM - 001 ISOMETRIC NUMBER : HSG-0021-C SHEET : 01 COMPONENT CATGORY/ EXAMINATION CAL. CAL. EXAM DESCRIPT. ITEM NO. REPORT NO. REPORT NO. SYD. TYPE FEATURE NUMBER HT 19941022 PASS R00000455 PIPE -ELEON DHS-2-15

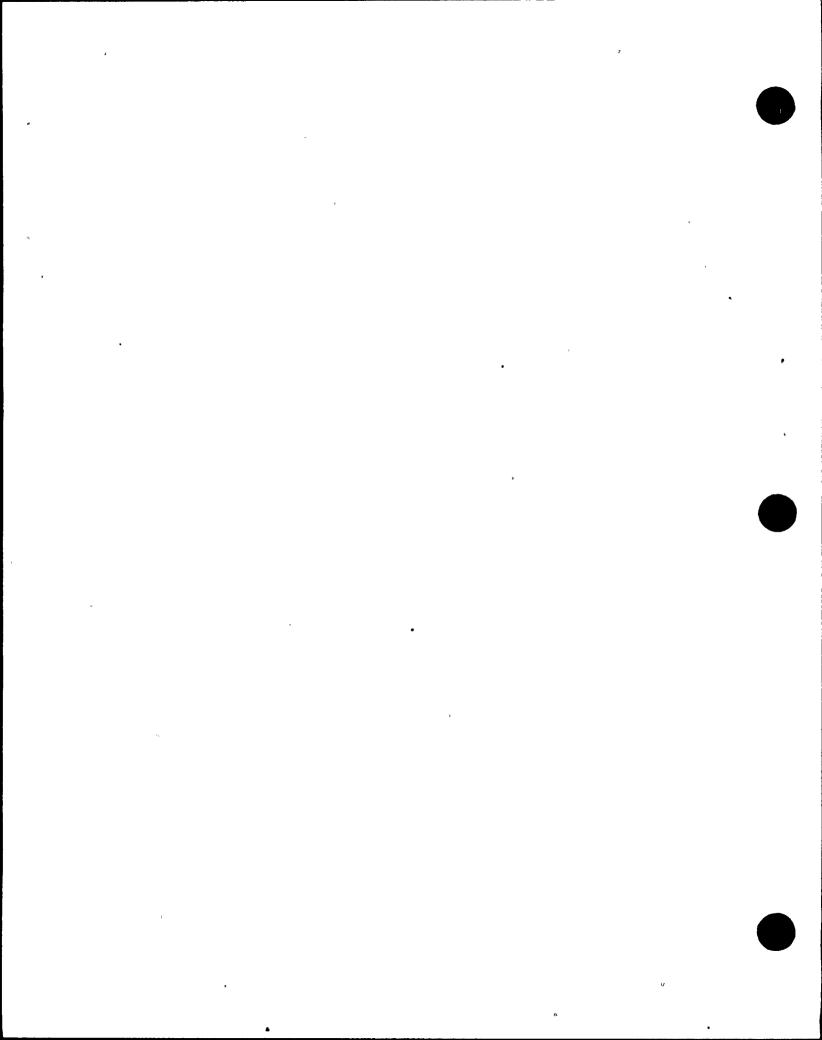
BROWNS FERRY NUCLEAR POHER PLANT - UNIT 2
BROWNS FERRY NUCLEAR POHER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT: R17-02 CYCLE: 07
INTERVAL: 02 PERIOD: 1 ₩ PAGE ₩ REVISION ₩ DATE 01/

SYSTEM : MSS HAIN STEAM SYSTEM - 001 ISOMETRIC NUMBER : ISI-0412-C SHEET : 02

CATGORY/ EXAMINATION CAL. CAL. ITEM NO. REPORT NO. REPORT NO. SID. FEATURE NUMBER DESCRIPT.

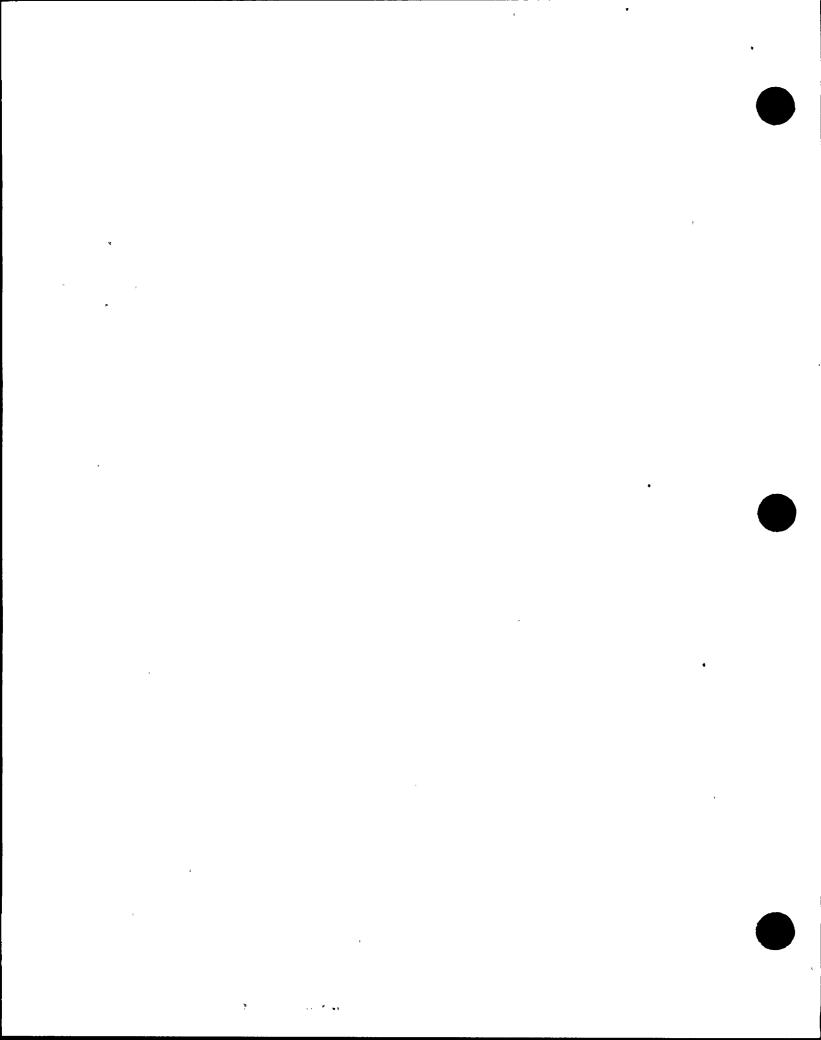
VT-3 19941114 PASS YES R00000451 HSNUB-2 F-A F1.30C 47B2401-03

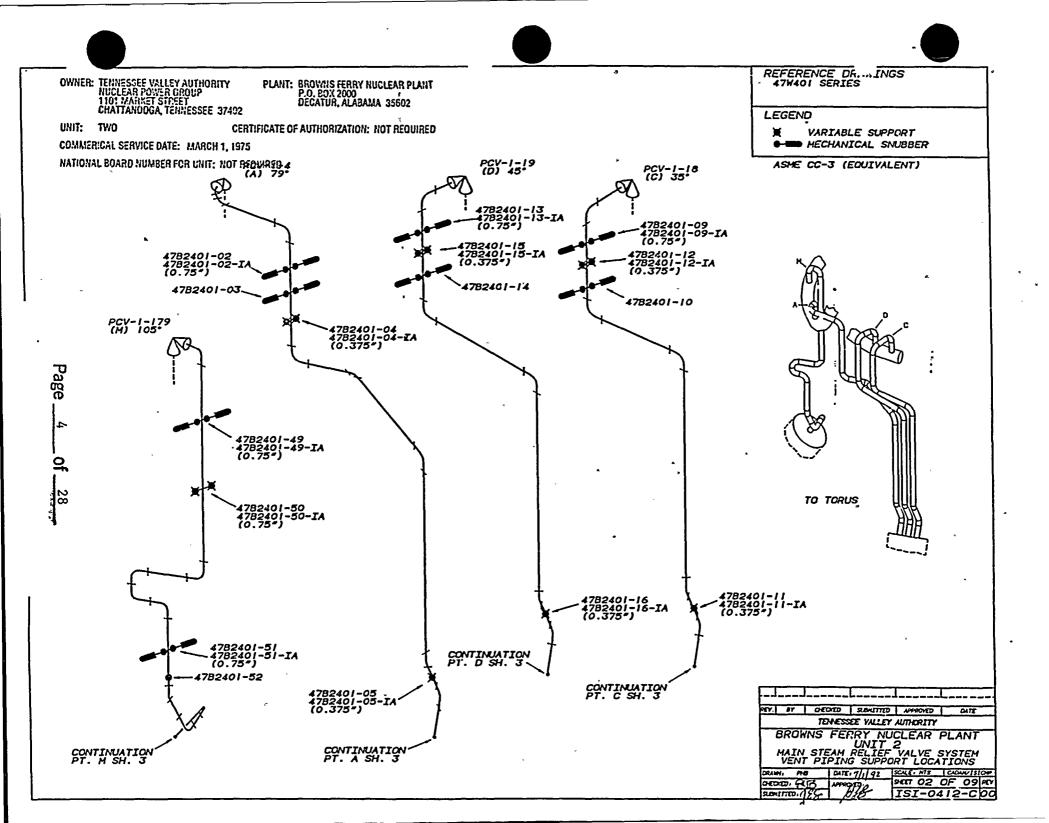
19941019 PASS R00000304 MSNUB-2

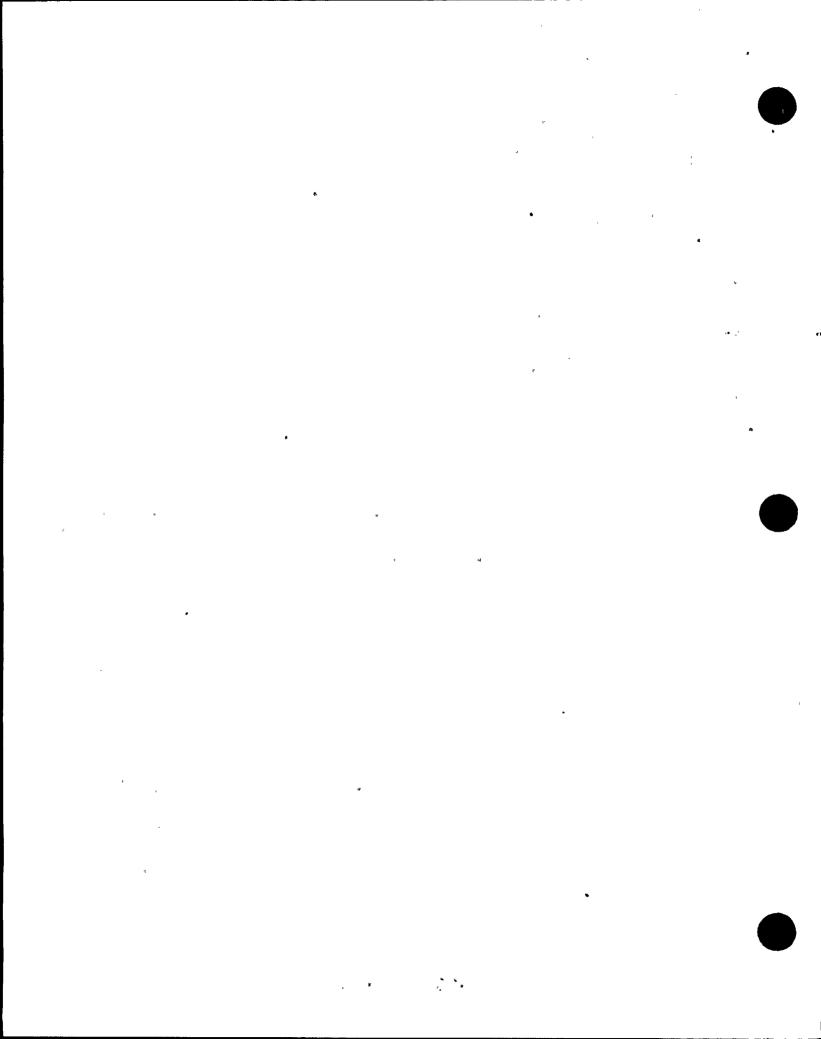


-DNS-2-25 REFERENCE DRAWINGS 9-CHS-2-26 TO TURBINE STOP VALVES EL. 615' -0545-2-40 -D45-2-27 -DSNS-2-41 JOSHS-2-12 -DSHS-2-43 100 MATERIAL SPECIFICATIONS: A155KC70 25.25" O.D. X 1.625" NOM WALL, CS FOR HEADER WELDS SEE HEADER DETAIL W A-106-B 24" X 1.219" NOM. WALL THK. SCH. 80 24" X 2.5" NOM. WALL THK. CS 18" X 0.938" NOM WALL THK. SCH. 80 LINE DMS-2-18 DSMS-2-30. DMS-2-20 MATCH DSMS-2-35 26" X 1.219" NOM. WALL THK. SCH. 80 244 DSHS-2-06 24" X 18" RED. ASME CC-2 (EQUIVALENT) SH: `DSMS-2-34 HANCH CERVICE DATE: MARCH CLUBA ATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED DSMS-2-29 DSMS-2-33 EL. 603' 9" ◮ DSMS-2-28 DMS-2-04 TEKHESSEE VALLEY AUTHORITY NUCLEAN PRIVEN GROUP 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402 ₩ 0 B1-2-SHSQ Š DSMS-2-27 SWEEPOLET) DMS-2-29 ◬ DSMS-2-25 DSMS-2-32 30" X 18" RED. DMS-2-16 S¥0 -2-12-LS-U -DSMS-2-45 -2-18-LS-U-DSMS-2-18-LS-D DSMS-2-46 DSMS-2-25-LS-D DSMS-2-26 DSMS-2-06-LS-U DSMS-2-44 DSMS-2-31 DSHS-2-12-TS-D DSMS-2-25-LS-U 0-57-90-2 DSMS-2-24 DSMS-2-05 CEBTIFICATE OF AUTHORIZATION: -SWSO DSMS-2-23 DSMS-2-04 HEADER DETAIL , DSMS-2-22 DMS-2-03 Page -DHS-2-07) DHS-2-11 DNS-2-06 DSNS-2-09 DSMS-2-03 DSHS-2-15 DHS-2-10 w DMS-2-02 NOT REQUIRED .DMS-2-12 DSMS-2-08 PSMS-2-14 DSMS-2-02 DSMS-2-21 4 MB ROS DETAIL PRIVISIO LOCSENS, NELO SPES DSMS-2-01 DHS-2-05 DMS-2-14 J P18 JAA JES 0.8 4-22-91
DD. CADRIA. ADD MITERIAL SPEC., ADD M.DS, 6,12,18,25,44,45,46 05HS-2-07 DMS-2-01. , DNS-2-09 5-2-03-2-13 2 MB LES ETC AB 6-5-69 ACDRAWN & REVISED FOR PRISIN DSHS-2-20 NEV. BY CHECKED SUBHLITTED APPROVED FCV-01-027 1.18 ch. 23 HARDKARE, IBM 5085 SOFTWARE, CADAN USER, ISTOMP 1FCV-01-015 FCY-01-038 LINESH. 2, TENNESSEE VALLEY AUTHORITY - 101-01-022-0-121-01. BROWNS FERRY NUCLEAR PLANT UNIT 2 MAIN STEAM SYSTEM WELD LOCATIONS -DSMS-2-19 26 724 ECC. RED. (4 TOP.) BHILLD APPROVED DRAIN, KEY SLEH[ITED SCALE MIS SHEET OF OF OR SHEET (S DRAWING NO. JOEN OLOGO, JL as MSG-0021-C04

OWNER:







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

HUTECH BROHNS FERRY NUCLEAR PONER PLANT - UNIT 2

AM REQUIREMENT: R19-02 CYCLE: 07 # PAGE 1
INTERVAL: 02 PERIOD: 1 # REVISION 0002
DATE 01/12/95

SYSTEH : HSS HAIN STEAM SYSTEM - 001 ISOMETRIC NUMBER : ISI-0222-C SHEET : 01

FEATURE NUMBER COMPONENT CATGORY/ EXAMINATION CAL. CAL. EXAM EXAM EXAM SEC XI RELIEF INDICATION INDICATION RESOLUTION RESOLUTION RESOLUTION

FCV-01-052-BC VALBLTG B-G-2 R00000432 VT-1 19941022 PASS YE: B7.70

REFERENCE DRAWINGS: 47K1767 -KHS-2-028 -GHS-2-08-LS -GHS-2-08 -H3A-SE KHS-2-028-LS-1-47X335-1 KELLOGG 729E229 CHH-2087-C (SH. 1) SUPPORT MAP NOTE: THIS DRAWING SUPERCEDES CHH-2069-C (SH. 1) NOS-2-023 NOS-2-023 NOS-2-022 NOS-2-023 NOS-2-023 NOS-2-023 NOS-2-033 NOS-2-033 KKS-2-027-PIPE DATA KNS-2-027-LS ASKE CC-1 (EQUIVALENT) ASTM A-155 KC 70 26° X 0.950 NOM. WALL THX. 6° X 0.719 NOM. WALL THX. (CS) (SCH: 109 CS) 6HS-2-07 Samuel Car NOTES: ×XAS-2-108 -KHS-2-108-LS-1 -KHS-2-108-LS-2 -KHS-2-107 ALL FIELD WELDS WERE MADE BY TVA 1. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS: KHS-2-098 KHS-2-099 KHS-2-100 6HS-2-07-LS-(BASE WELD MO.)-LS-10 (BASE WELD MO.)-LS-20 (BASE WELD MO.)-LS-1U (BASE WELD MO.)-LS-2U (DOXNSTREAK) (DOXNSTREAK) (UPSTREAK) (UPSTREAK) KHS-2-024-LS THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHERMOST FROM 0° ON THE PIPE. 6KS-2-06 Ø COMMERICAL SERVICE ge NATIONAL BOARD RUMBER FOR -LS-1 AT 130°. AND -LS-2 AT 310°) KHS-2-02 / KHS-2-025-KHS-2-025-LS-, - KNS-2-106 |- KNS-2-082-LS-1 |- KNS-2-082-LS-2 GHS-2-06-LS1 2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAH WILL BE IDENTIFIED AS: 6XS-2-06-LS2 6XS-2-33 --- KHS-2-082 (BASE WELD NO.)-LS-D (BASE WELD NO.)-LS-U KHS-2-026--KHS-2-105-LS (DOXNSTREAK) -XXS-2-105 (UPSTREAM) KHS-2-106-LS - KNS-2-083 KHS-2-025-LS - KHS-2-084 - KHS-2-083 KHS-2-088 (DETUL) KHS-2-087 6XS-2-05 MARCH 1, 1975 GHS-2-05-LS DATE: NOT REQUIRED FCV-01-015 FCV-01-015-BC 12 10 10 13 10 15 6HS-2-33-LS-`645-2-02-LS -6XS-2-02 FCV-01-014 FCV-01-014-BC -NATCH LINE: F SHEET 3 -2-03 FCV-01-052 6XS-2-32-ANG 2-112-15 ANG 2 645-2-32-LS1 KHS-2-104 6HS-2-04 FLUED HEAD! GHS-2-28-LS GHS-2-28 FCV-01-051 FCV-01-051-BC -XXS-2-001-LS K- SHOP XELD G- FIELD XELD UNIT NO. 64S-2-31-LS MIN STEAM WELD NO. -XXS-2-001 -KATCH LINE J SHEET 3 6XS-2-04-LS1 FCV-OI-052 FCY-01-015 KHS-2-081-LS 170L-2-NR273 TROL-2-NR255 B ACCED DETAILS ASSESSED REVISIONS TROL-2-HR256 TROL-2-NR274 TENNESSEE VALLEY AUTHORITY KKS-2-081 -D-2"X 3" RECUCER -D-2"x = "REDUCER BROWNS FERRY MUCLEAR PLANT UNIT 2 GHS-2-30-LS1 GHS-2-30-LS2 MAIN STEAN SYSTEN WELD LOCATIONS TROL-2-NR257 -TROL-2-NR275 DET B DET A &CEE LE EDC GLB 8

1: TERMESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1701 MARKET STREET CHATTAVOOGA, TENNESSEE 3740 PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602

OWNER:

NOT REQUIRED

윾 AUTHORIZATION:

i...¥ (∦18b ¹

_6,54

TENNESSEE VALLEY AUTHORITY Owner:

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

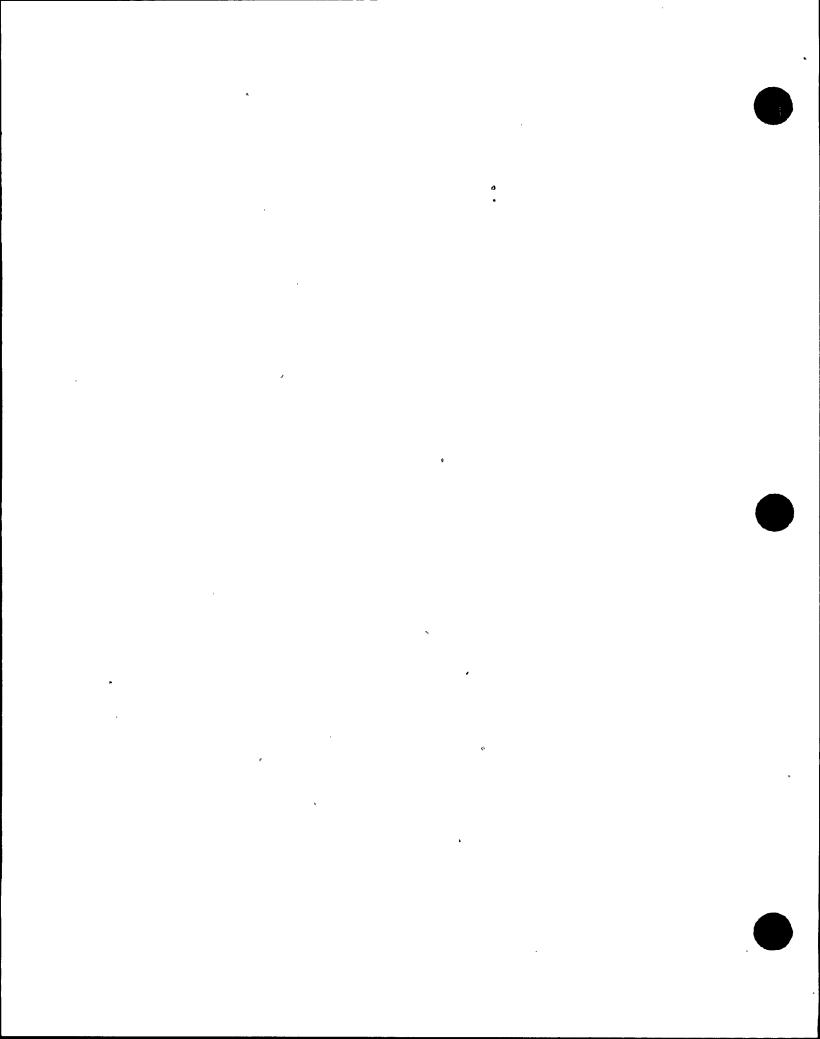
Commercial Service Date: March 1, 1975

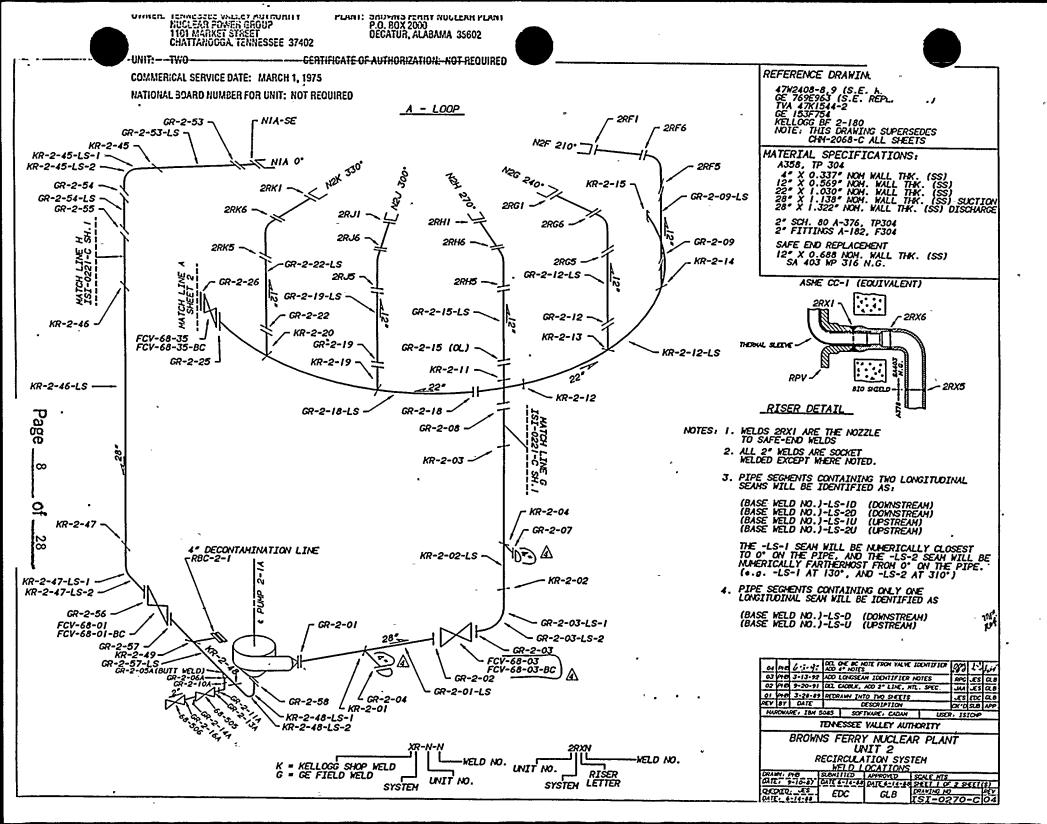
National Board Number For Unit: Not Required

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2.
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REGUIREMENT: R23-02 CYCLE: 07
INTERVAL: 02 PERIOD: 1 * PAGE * REVISION SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068
ISOMETRIC NUMBER : ISI-0270-C SHEET : 01 COMPONENT CATGORY/ EXAMINATION CAL. CAL. DESCRIPT. ITEM NO. REPORT NO. REPORT NO. SID. 19941018 PASS YES SWPOLET -PIPE R00000294 PT GR-2-19 GR-2-25 PIPE -VALVE R00000324 PΤ 19941018 PASS YES

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY HUCLEAR POHER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT: R23-02 CYCLE: 07
INTERVAL: 02 PERIOD: 1 * PAGE * REVISION SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068 ISOMETRIC NUMBER : ISI-0270-C SMEET : 02

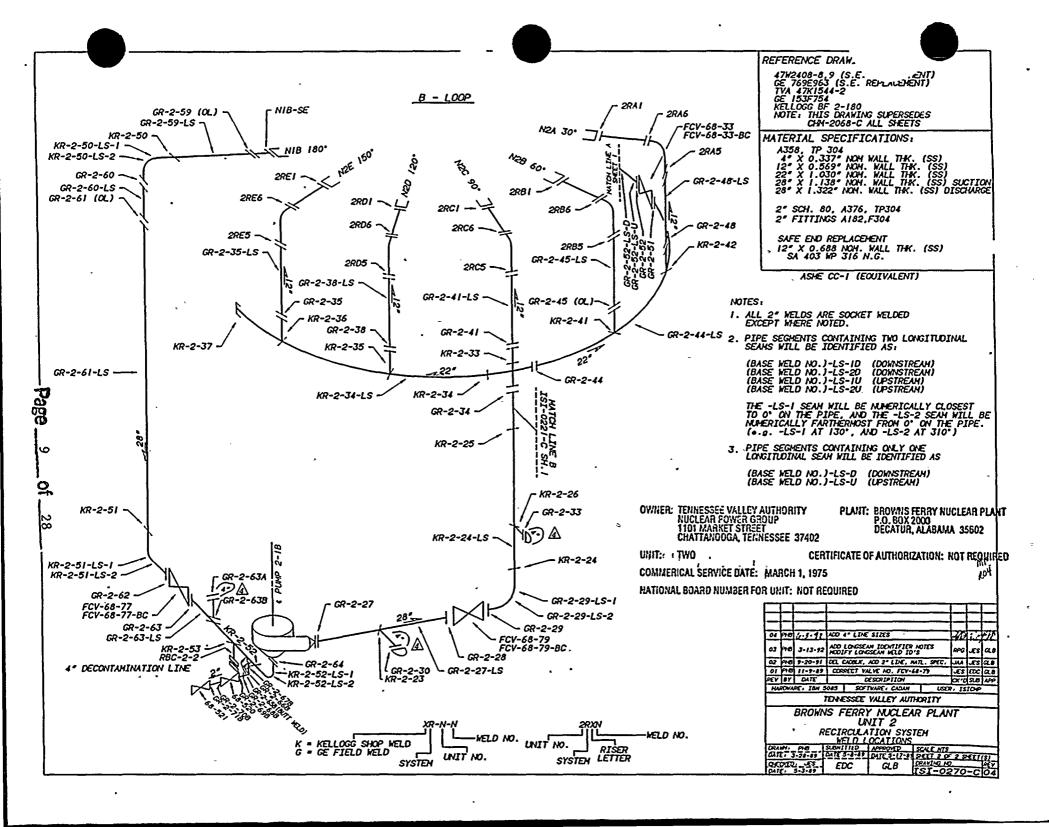
COMPONENT CATGORY/ EXAMINATION CAL. CAL.
DESCRIPT. ITEM NO. REPORT NO. REPORT NO. STD. EXAM RESULT FEATURE NUMBER R00000353 19941020 PASS YES B-J B9.11 19941020 PASS VALVE -PIPE B-J B9.11 R00000456 PT 19941028 PASS UT-0 19941028 PASS UT-0L 19941030 PASS UT-60L 19941025 PASS R00000433 R00000434 R00000434 GR-2-64(OL) OVERLAY B-J B9.11 BF-83 BF-83 BF-83 SUBSURF, ROU EVALUATED, OK SUBSURF, ROU EVALUATED, OK





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7



4.16.4

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

NUTECH

TENNESSE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR POWER PLANT - UNIT
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT: R19-02 CYCLE:
INTERVAL: 02 PERIOD: 1

* PAGE * REVISION

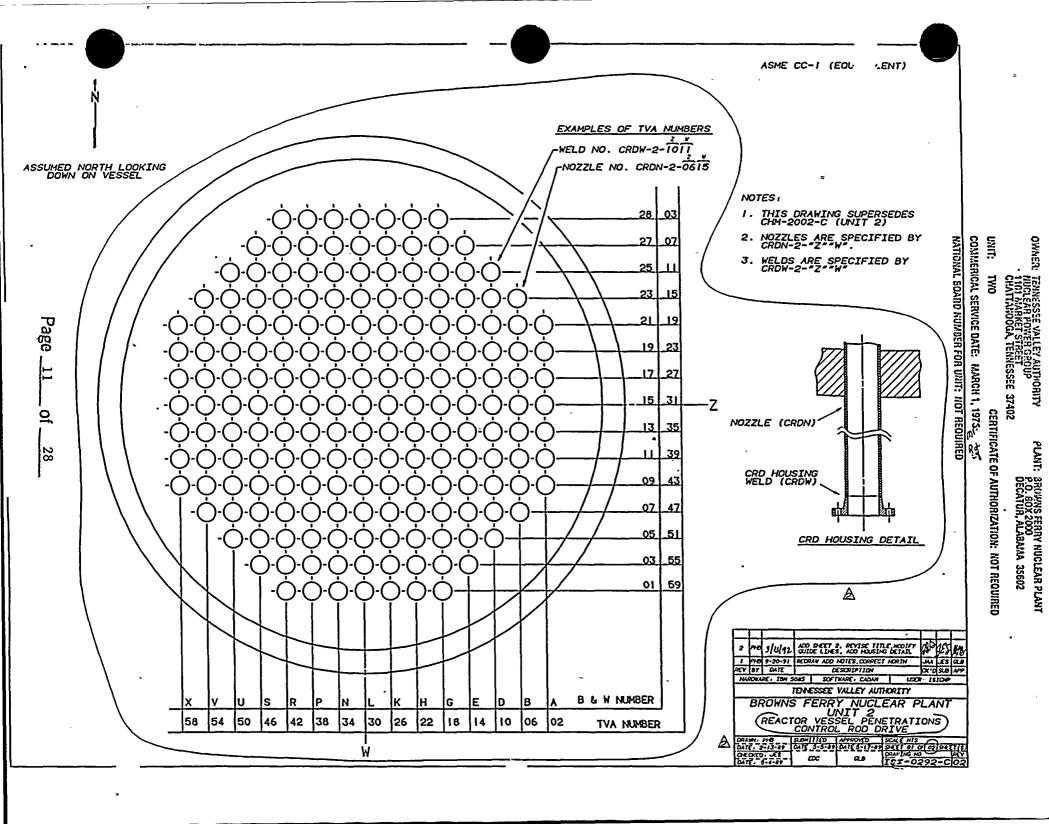
SYSTEM : RPV REACTOR PRESSURE VESSEL (HUCLEAR BOILER) - 068 ISI-0292-C SHEET : 01

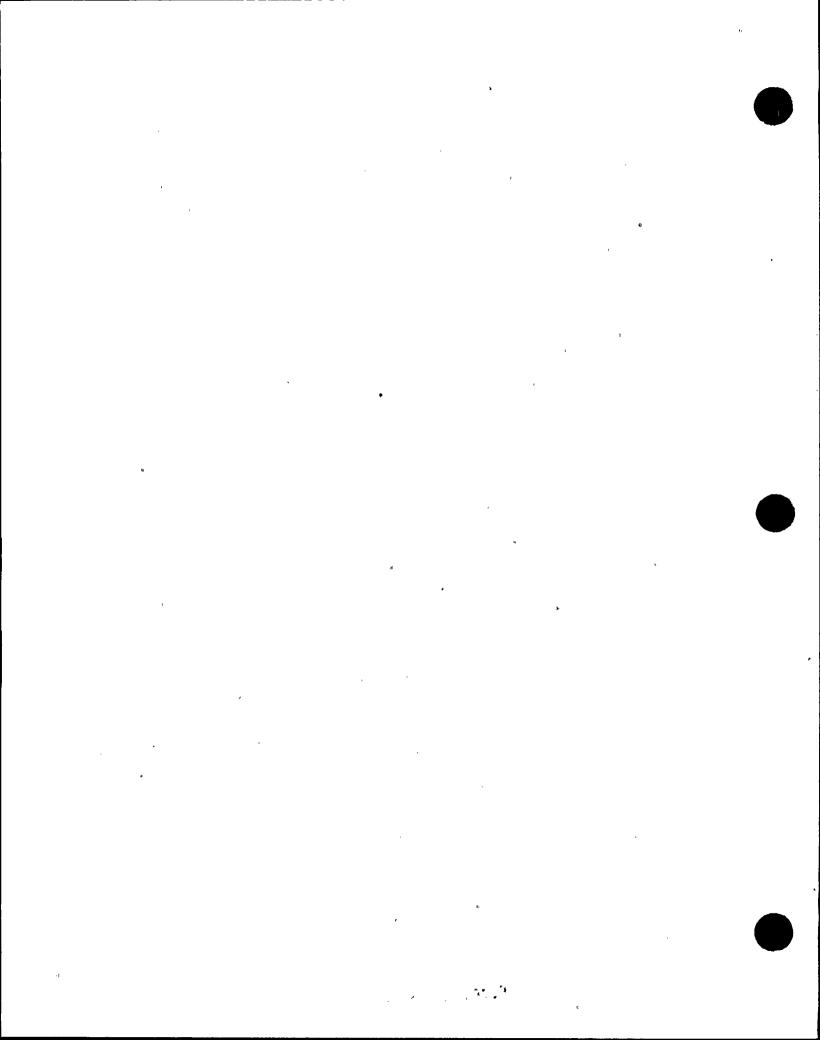
	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAH TYPE	EXAH DATE	EXAH RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
CRDN-2-0239-BC	BOLTS	B-G-2 B7.80	R00000253			VT-1	19941012	PASS	YES			
CRDN-2-0619-BC	BOLTS	B-G-2 B7.80	R00000252			VT-1	19941012	PASS	YES			e e
CRDN-2-0627-BC	BOLTS	B-G-2 B7.80	R00000257			VT-1	19941012	PASS	YES		•	
CRDN-2-1023-BC	BOLTS	B-G-2 B7.80	R00000251			VT-1	19941012	PASS	YES		•	
CRDN-2-1031-BC	BOLTS	B-G-2 B7.80	R00000Z62	2		VT-1	19941012	PASS	YES	ı		
CRDN-2-1035-BC	BOLTS	B-G-2 67.80	R00000256	•		VT-1	19941012	PASS	YES			
CRDN-2-1439-BC	BOLTS	B-G-2 B7.80	R00000261			VT-1	19941012	PASS	YES			•
CRDH-2-1455-BC*	BOLTS	B-G-2 B7.80	R00000267	= 4	•	VT-1	19941012	PASS	YES			
CRDH-2-1811-BC	BOLTS	B-G-2 B7.80	R00000266 .	•		VT-1	19941012	PASS	YES	•		
CRDN-2-1819-BC	BOLTS	B-G-2 B7.80	R00000265			VT-J	19941012	PASS	YES	1		
CRDN-2-1835-BC	BOLTS	B-G-2 B7.80	R00000260			VT-1	19941012	PASS	YES	1		
CRDN-2-1023-BC CRDN-2-1031-BC CRDN-2-1035-BC CRDN-2-1439-BC CRDN-2-1455-BC CRDN-2-1811-BC CRDN-2-1819-BC	BOLTS BOLTS BOLTS BOLTS BOLTS BOLTS BOLTS	B-G-2 B7.80 B-G-2 B7.80 B-G-2 B7.80 B-G-2 B7.80 B-G-2 B7.80 B-G-2 B7.80 B-G-2 B7.80 B-G-2 B7.80 B-G-2 B7.80	R00000251 R00000262 R00000256 R00000261 R00000267 R00000266 R00000265	= ,		VT-1 VT-1 VT-1 VT-1 VT-1 VT-1 VT-1	19941012 19941012 19941012 19941012 19941012 19941012	PASS PASS PASS PASS PASS PASS PASS PASS	YES YES YES YES YES YES YES		•	

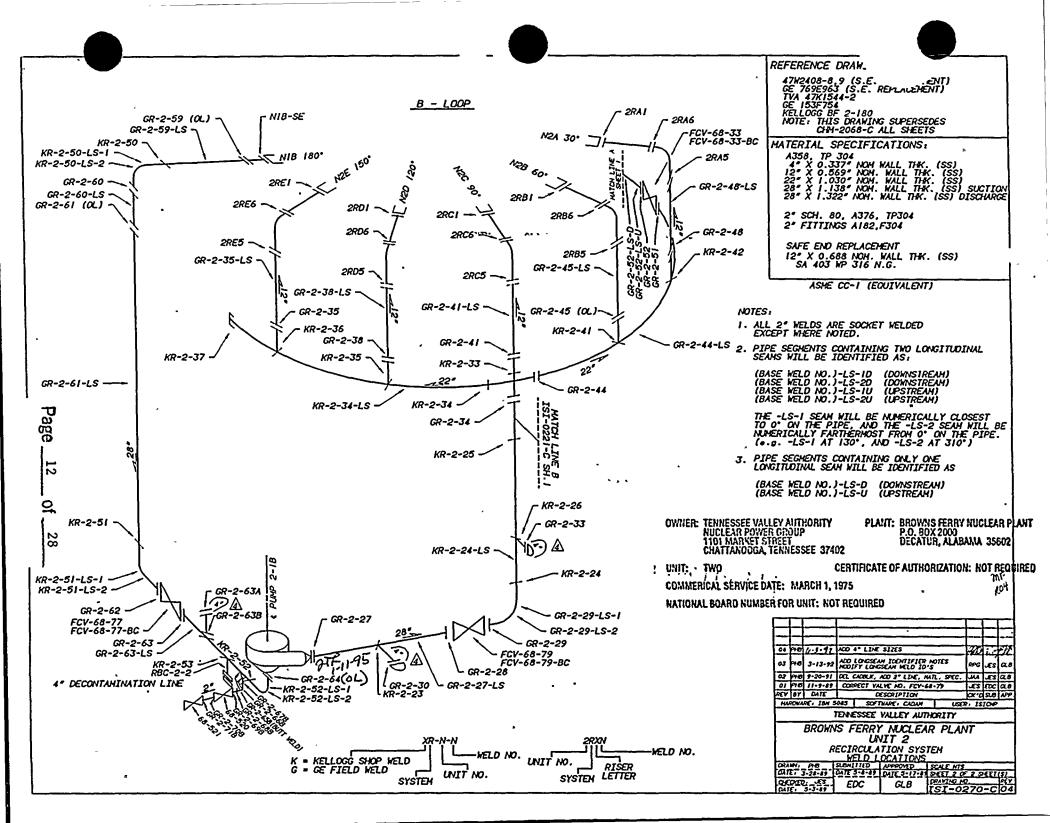
PRISIH NUTECH M PAGE 2 M REVISION 0002 M DATE 01/12/95

: RECIR REACTOR WATER RECIRCULATING SYSTEM : ISI-0270-C SHEET : 02

EXAM SEC XI RELIEF RESULT CREDIT REOST. CATGORY/ EXAMINATION CAL. CAL. ITEM NO. REPORT NO. REPORT NO. SID. COMPONENT DESCRIPT. FEATURE NUMBER 19941021 PASS FCV-68-33-BC VALBLTG







•

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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

NUTECH PRISIN

TENNESSE VALLEY AUTHORITY
BROHNS FERRY NUCLEAR PONER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT: R01-02 CYCLE: 07
INTERVAL: 02 PERIOD: 1

SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068 ISONETRIC NUMBER : ISI-0278-C SHEET : 01

FEATURE NUMBER

CFORCE2 R00000167 19941006 PASS 2-47840850056

C FORCE F-A F1.40C R00000448 2-47B408S0066 19941104 PASS

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2

ISI DATA BASE

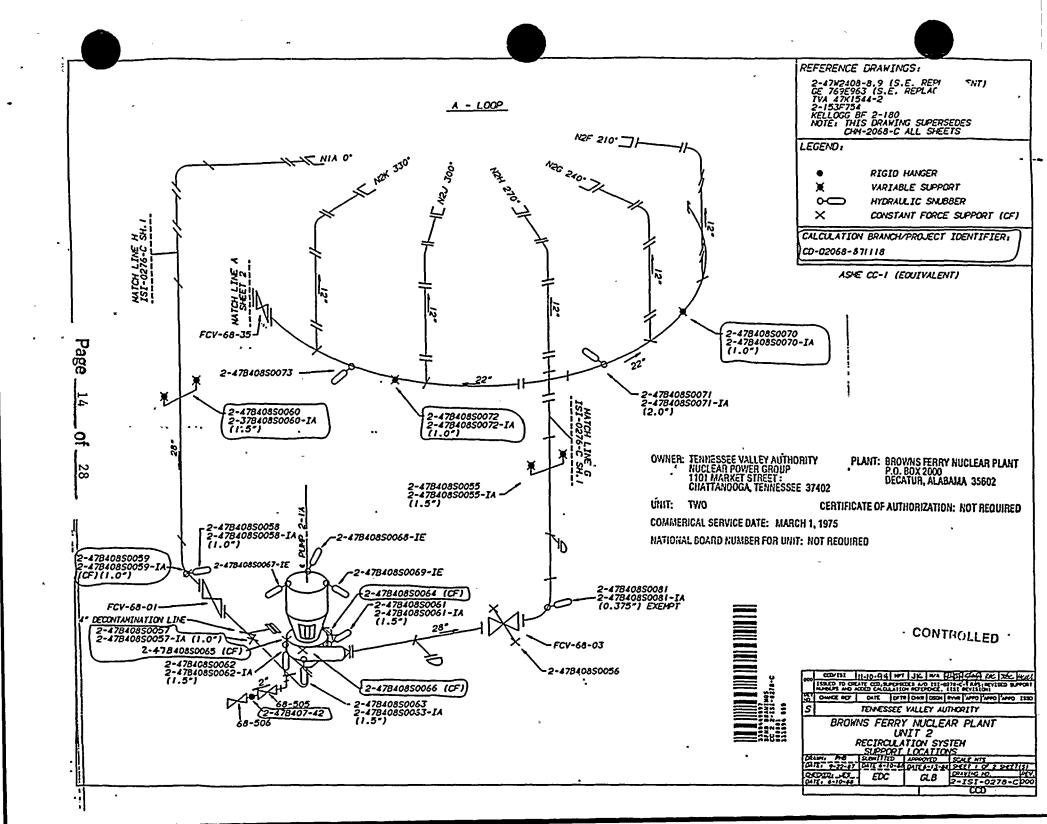
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EXAM REQUIREMENT: R19-02 CYCLE: 07

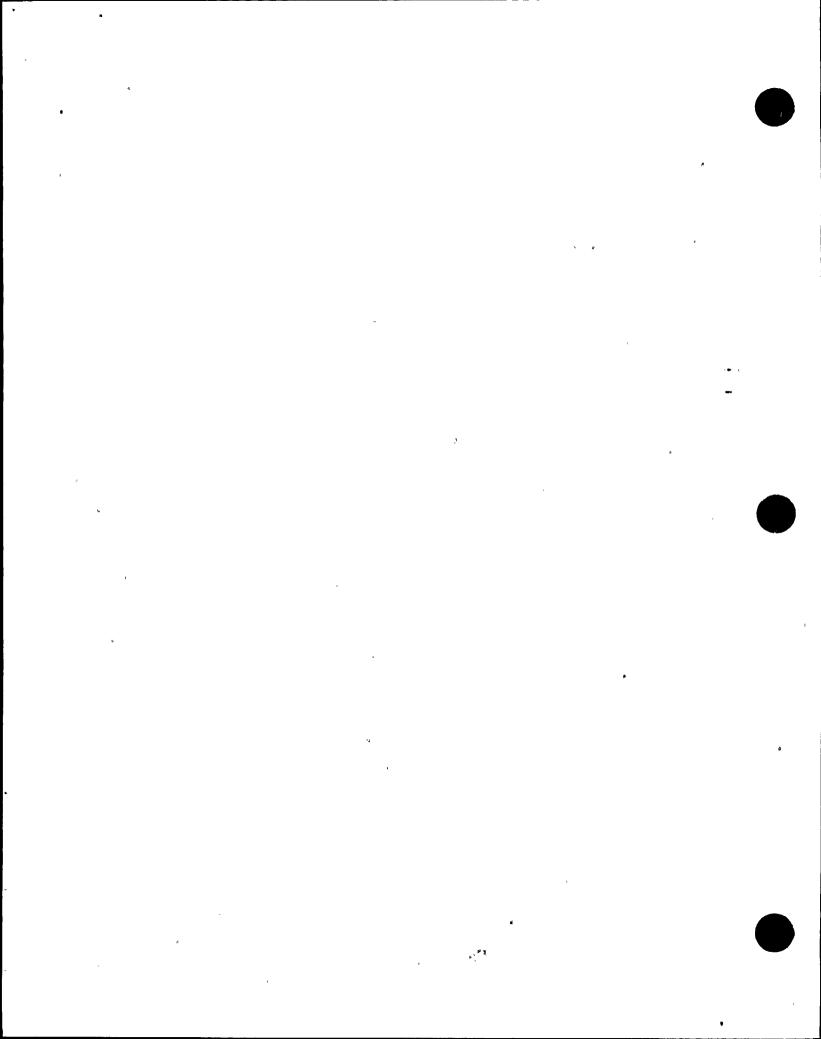
INTERVAL: 02 PERIOD: 1

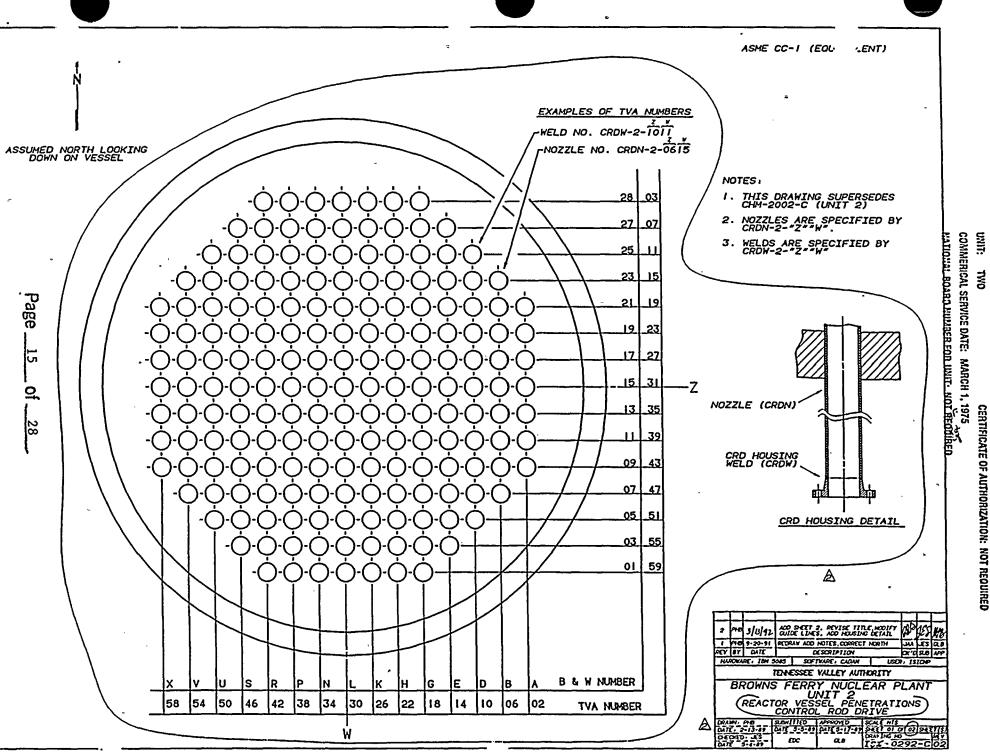
PAGE 4
PAGE 4
PAGE 01/12/95
PATE 01/12/95

SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068 ISOHETRIC NUMBER : ISI-0292-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION CAL. REPORT NO. REPORT NO.	CAL. STD.	EXAH TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
CRDN-2-1839-BC	BOLTS '	B-G-2 B7.80	R00000250		VT-1	19941012	PASS	YES	•		
CRDN-2-1859-BC	BOLTS	B-G-2 B7.80	R00000259		VT-1	19941012	PASS	YES		•	•
CRDN-2-2219-BC	BOLTS	B-G-2 B7.80	R00000264		VT-1	19941012	PASS	YES			
CRDN-2-2659-BC	BOLTS	B-G-2 B7.80	R00000255		VT-1	19941012	PASS	YES ,			
CRDN-2-3459-BC	BOLTS	B-G-2 B7.80	R00000249		VT-1	19941012	PASS	YES		,	
CRDN-2-3823-BC	CH BLTG	B-G-2 B7.80	R00000258		VT-1	19941012	PASS	YES	i		
CRDN-2-3831-BC	BOLTS	B-G-2 B7.80	R00000263	•	VT-1	19941012	PASS	YEŞ			
CRDN-2-4247-BC	BOLTS	B-G-2 B7.80	R00000254		VT-1	19941012	PASS	YES ,			*
FLUXHON-2-23-BC	BOLTS	B-C-2 B7.10	R00000311.		VT-1	19941019	PASS	YÈS		•	

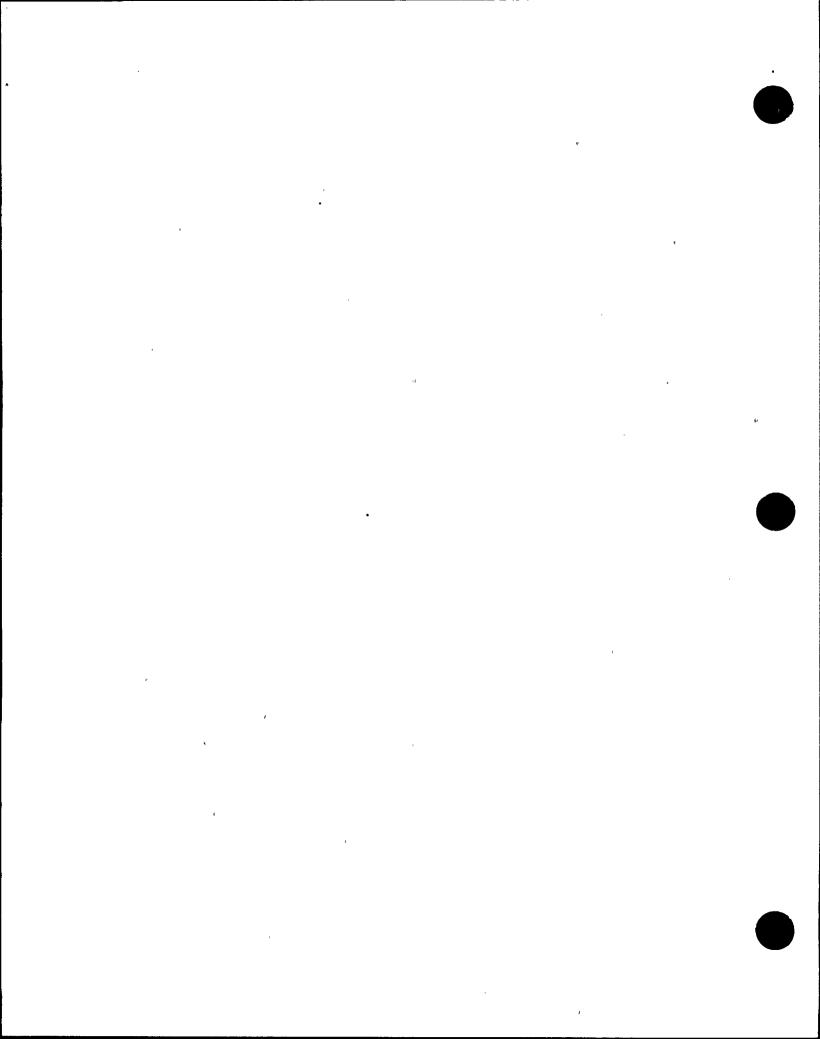






TENNESSEE VALLEY AUTHORITY AUCLEAR POWER GROUP 1101 MARKET STREET CHATTAWOOGA, TENNESSEE 37402

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



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

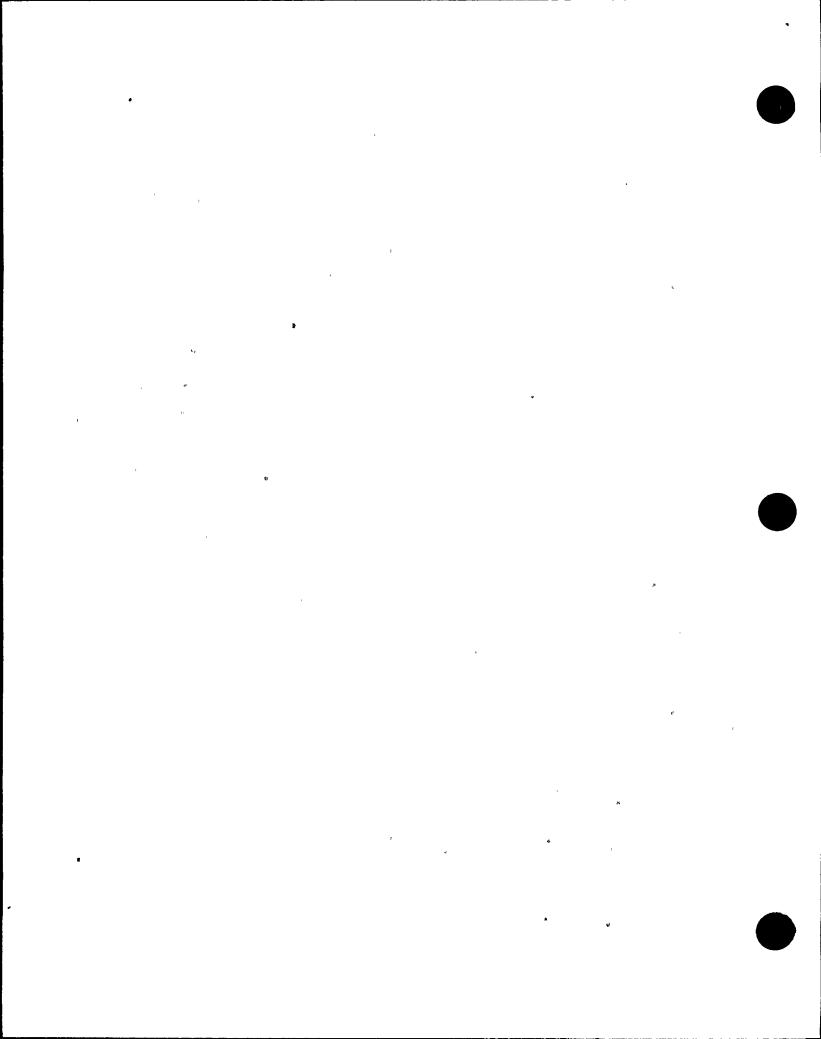
Certificate of Authorization: Not Required

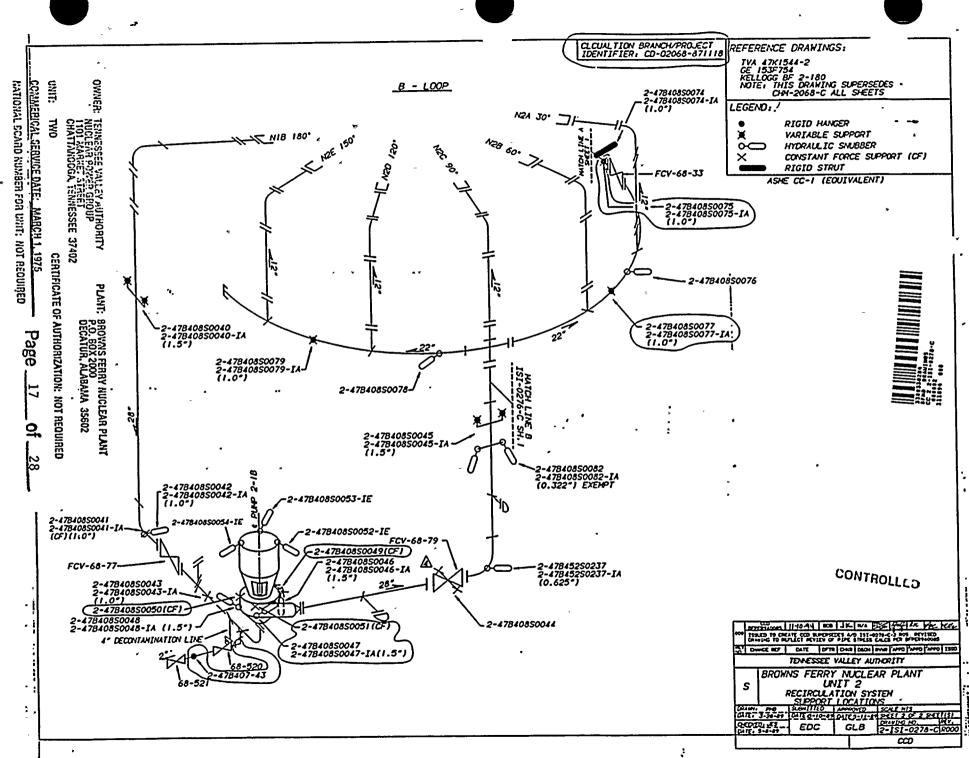
Commercial Service Date: March 1, 1975

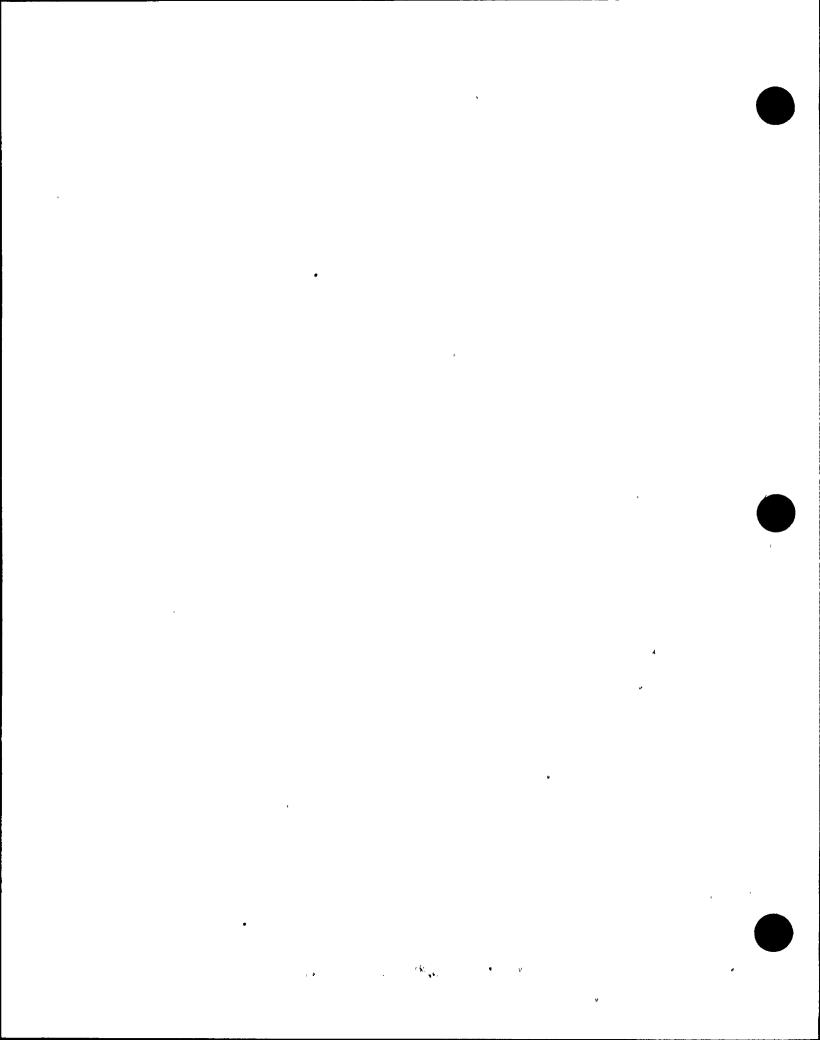
National Board Number For Unit: Not Required

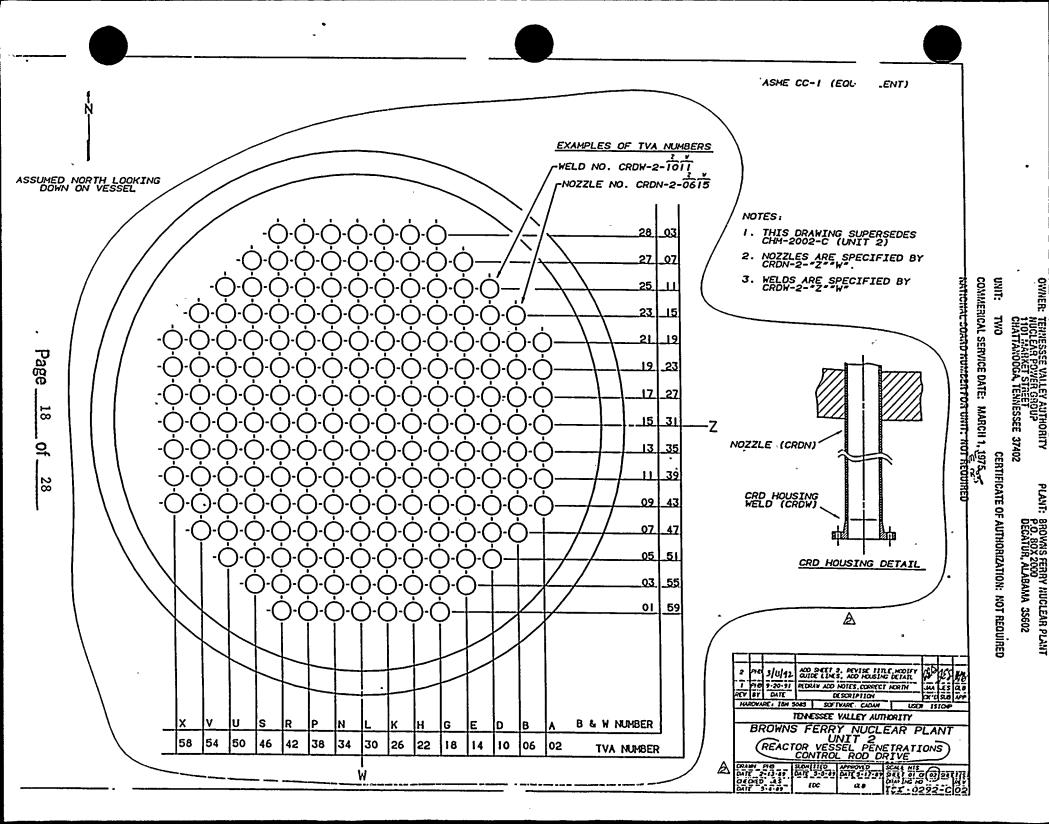
SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068
ISOMETRIC NUMBER : ISI-0292-C SHEET : 01

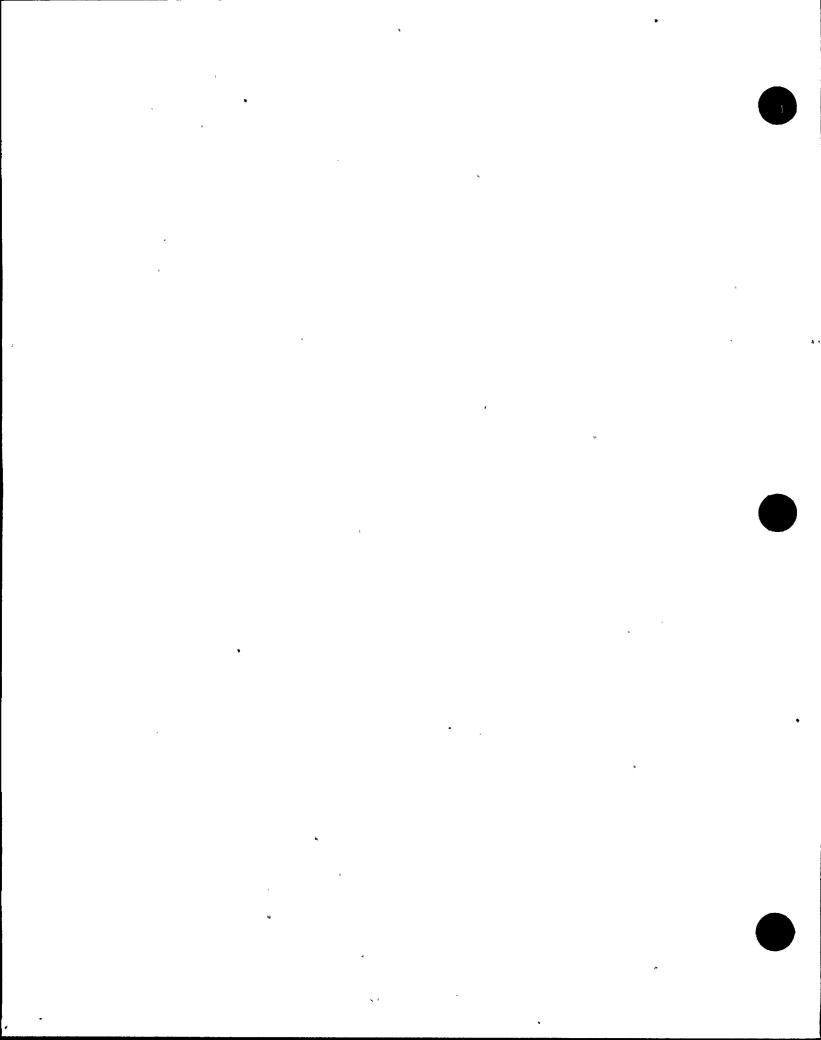
CATGORY/ EXAMINATION CAL. CAL. ITEM NO. REPORT NO. REPORT NO. STD. SEC XI RELIEF CREDIT REGST. COMPONENT DESCRIPT. FEATURE NUMBER CRDH-2-0619-BC BOLTS B-G-2 B7.80 R00000383 HT 19941026 PASS YES B-G-2 B7.80 R00000430 SURF, LINEAR ANALYZED, OK CRDN-2-0627-BC HT 19941026 ENGR YES CRDN-2-1835-BC BOLTS B-G-2 R00000384 19941026 ENGR YES SURF, LINEAR ANALYZED, OK B7.80 B-G-2 B7.80 R00000386 19941026 ENGR SURF, LINEAR ANALYZED, OK CRDN-2-1839-BC BOLTS B-G-2 B7.80 R00000385 19941026 ENGR SURF, LINEAR ANALYZED, OK CRDN-2-2219-BC BOLTS











TENNESSEE VALLEY AUTHORITY Owner:

> **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

PRISIN NUTECH ¥ PAGE ¥ REVISION ¥ DATE 01 : RHCUS REACTOR WATER CLEANUP SYSTEM - 069 : ISI-0274-C SHEET : 01 EXAM SEC XI RELIEF RESULT CREDIT REGST. CATGORY/ EXAMINATION CAL. CAL. ITEH NO. REPORT NO. REPORT NO. STD. FEATURE NUMBER

YES R00000213 VT-3 19941013 PASS 2-47B406S0012 RIG HGR F-A F1.10B 19941012 PASS 2-47B406S0018 VSPRING

NUTECH PRISIN

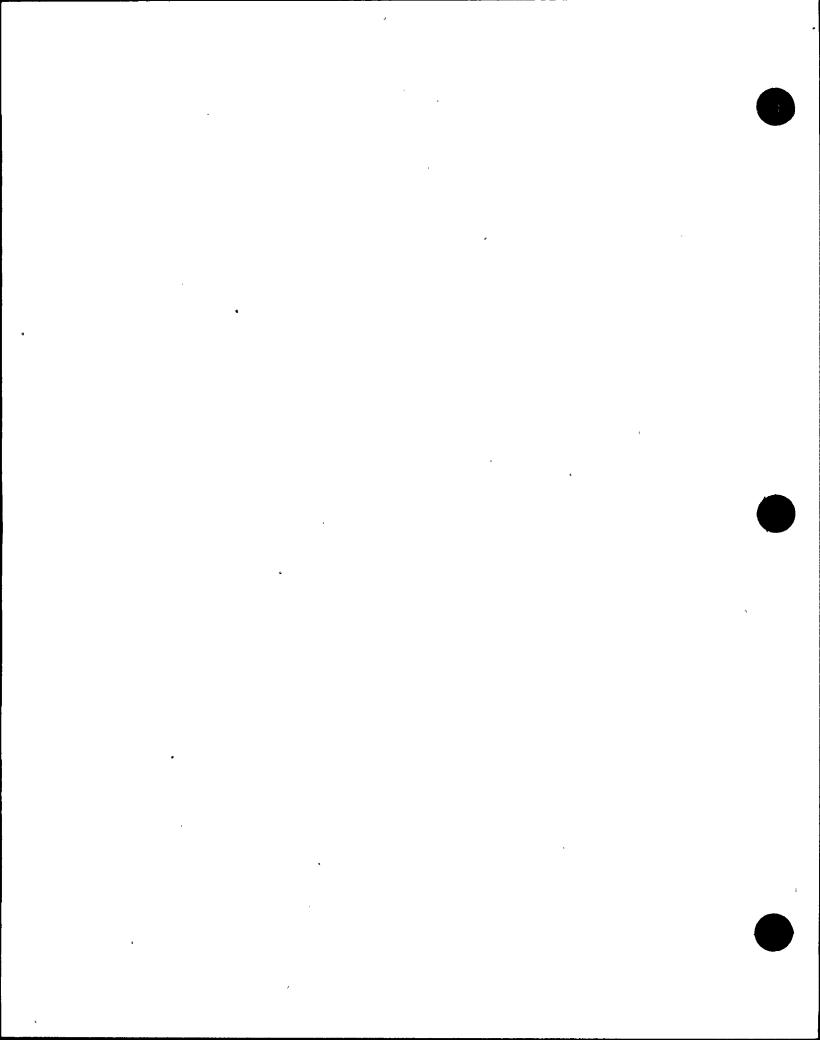
TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT: R23-02 CYCLE: 07
INTERVAL: 02 PERIOD: 1 PAGE 5

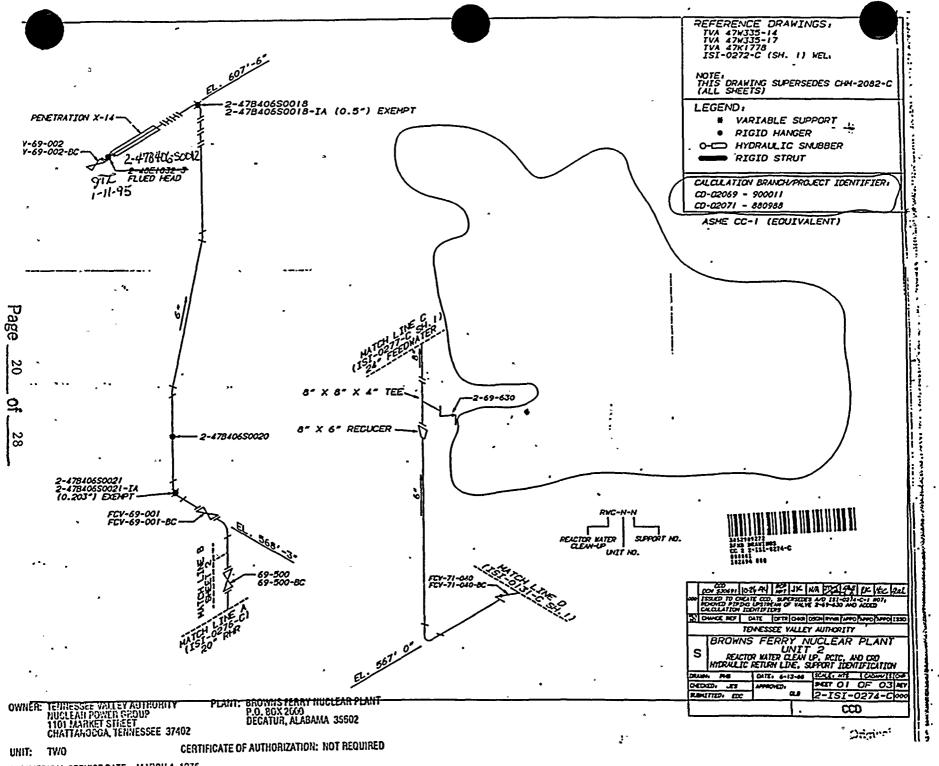
* REVISION 0002

* DATE 01/12/95

SYSTEH : RUCUS REACTOR WATER CLEANUP SYSTEM - 069

CATGORY/ EXAMINATION CAL. CAL. ITEM NO. REPORT NO. REPORT NO. STD. COMPONENT DESCRIPT. SEC XI RELIEF CREDIT REQST. EXAM FEATURE NUMBER DRHC-2-02 ELBOW -VALVE R00000139 19941004 PASS PΤ YES DSRWC-2-01 PIPE -ELBOW R00000140 19941004 PASS PT YES DSRWC-2-01A PIPE -ELBON R00000141 19941004 PASS YES DSRNC-2-02 R00000142 'PT 19941004 PASS YES R00000143 19941004 PASS DSRWC-2-06





COMMERICAL SERVICE DATE: MARCH 1, 1975
NATIONAL ROADS HINDS FOR HINT: NOT RECURRED

CV/NER: 정

> PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35802

CERTIFICATE OF AUTHORIZATION; NOT REQUIRED

COMMERICAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REFERENCE DRAWINGS CRO-2-005 RCIC-2-004 RYC-2-001 47#335-14, -17 NOMINAL WALL AMCU-2-003-G00, REGION OF THERMAL FATIGUE EXAMINATION PER MUREG-0619 THERMAL TEE FLOW AMCU-2, OOX, COOK NOTE: THIS DRAWING SUPERSEDES CHM-2075-C AND CHM-2072-C (ALL SHEETS) (Pholishood was a construction of the constru RWCU-2-003-G002 RCRDS-2-03-TEE RCROS-2-45 MATERIAL SPECIFICATIONS FCV69-02 RCRDS-2-02 STAINLESS STEEL RCRDS-2-03 -DRWC-2-078 RNC-2-001. FITTINGS RCRD-2-44 6" SA403 WP316NG SCH. 80 SS DRWC-2-07A AMC 2-00 1 - COOL PIPING 6" SA376 TP316NG SCH. 80 SS 69.380 CARBON STEEL 4" SCH. 80 A-333, GRI (SEAMLESS) CS DSRWC-2-09 6" X 0.562" NOH WALL SCH. 120 CS DSRWC-2-06 8" X 0.593" NON WALL SCH. 100 CS CARBON STEEL VALVE 2-69-630 SAI82 F316 STAINLESS STEEL DSRWC-2-05 (OL) ASHE CC-I (EQUIVALENT) RCRO-2-43, 8" X 4" RED RCROS-2-01-RCRDS-2-02 6° X 4° RED. RCRD-2-45 * X 8" X 6" HERHAL TEE RCROS-2-03 RCRD-2-48-8" X 4" RED-RCR0-2-44-TRCIC-2-001-45 ·DSRWC-2-04 (OL) RMCU-2-004-6074 8" X 8" X 4"TEE-2-69-630 DSRWC-2-03 (OL) TRCIC-2-001A RWCU-2-004-G073 8" X 6" RED. DSRWC-2-01A RCRD-2-46 TRCIC-2-002 DRWC-2-03 -DSPWC-2-08 DSRWC-2-02. DRWC-2-59 N9 DSRWC-2-01 146 ø RCR0-2-33 ACO HIGH. MET. LINE NO COMECT MATCH LINES TRCIC-2-003 CV. ST DEDGE SAUTHED APPROVED TENESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT
UNIT 2
REACTOR WATER CLEAN UP, RCIC, AND CA AND CRD DATE: 4-9-88 SCALL MS CH DRAWN, PIE 900 01 OF 03 MY OCOUD: ATT ATTECO D. ISI-0272-C05 4.0 savillo, ce

Owner: TENNESSEE VALLEY AUTHORITY

> Nuclear Power Group 1101 Market Street

Chattanooga, TN_n 37402-2801

Plant: Browns Ferry Nuclear Plant

P.O. Box 2000 a

Decatur, AL 35609-2000

Unit:

Two

Certificate of Authorization: Not Required

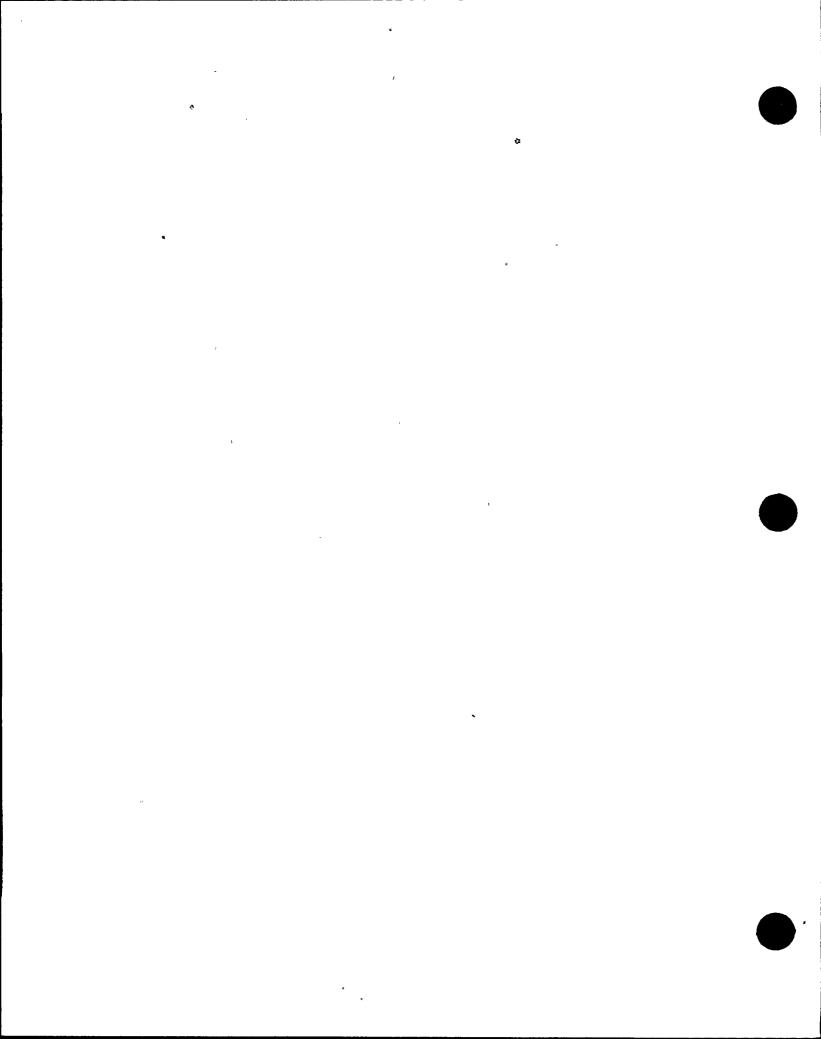
Commercial Service Date: March 1, 1975

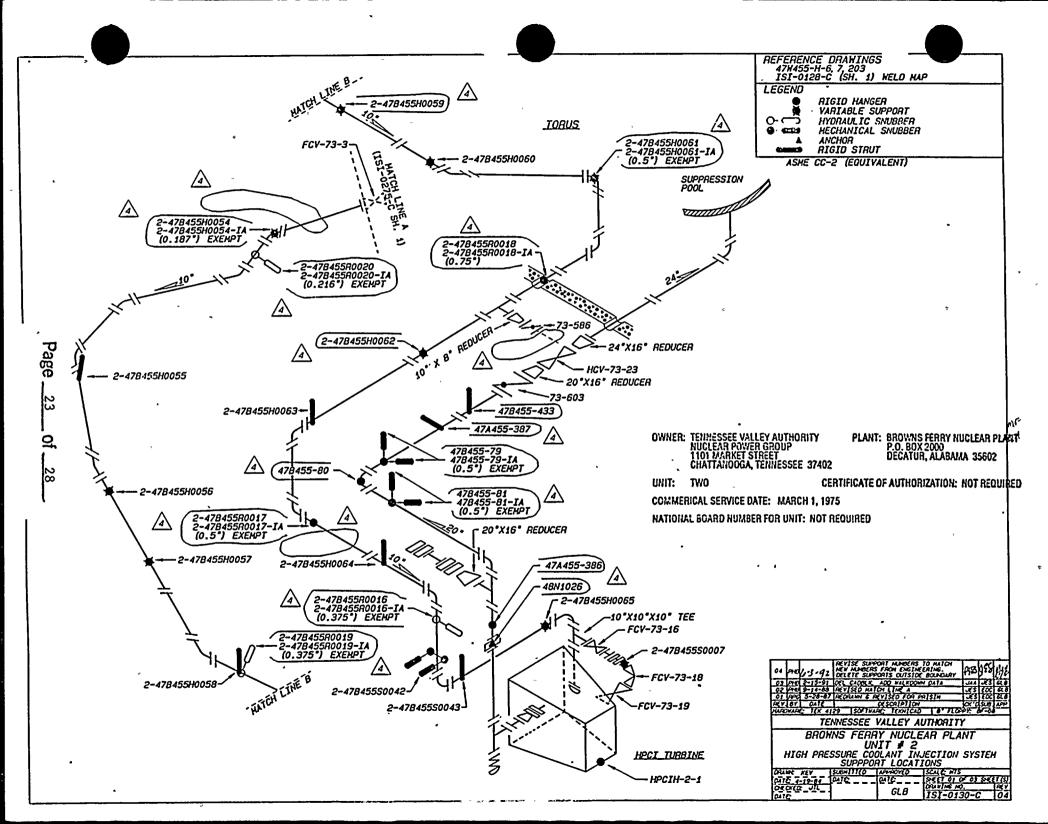
National Board Number For Unit: Not Required

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT: R01-02 CYCLE: 07
INTERVAL: 02 PERIOD: 1

SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073 ISOHETRIC NUMBER : ISI-0130-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO. RE	CAL. EPORT NO.	CAL. STD.	EXAM TYPE	EXAH DATE		SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B455H0056	VSPRING	F-A F1.20C	R00000222 R00000449			VT-3 VT-3	19941014 19941104		YES YES		INC SETTING	COMP RESET
2-47B455H0059	VSPRING	F-A F1.20C	R00000223			VT-3	19941014	PASS	YES		য	•
2-47B455H0060	VSPRING	F-A F1.20C	R00000224			VT-3L	19941014	PASS	YES			
2-478455H0062	VSPRING	F-A F1.20C	R00000214			VT-3	19941013	PASS	YES.			
								•				





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

FEATURE NUMBER COMPONENT CATGORY/ EXAMINATION CAL. CAL. EXAM EXAM EXAM SEC XI RELIEF INDICATION INDICATION TYPE DATE RESULT CREDIT REQST. TYPE RESOLUTION

2-478452R0077 H SNUB F-A R00000087 VT-3 19940713 PASS YES

FEATURE NUMBER

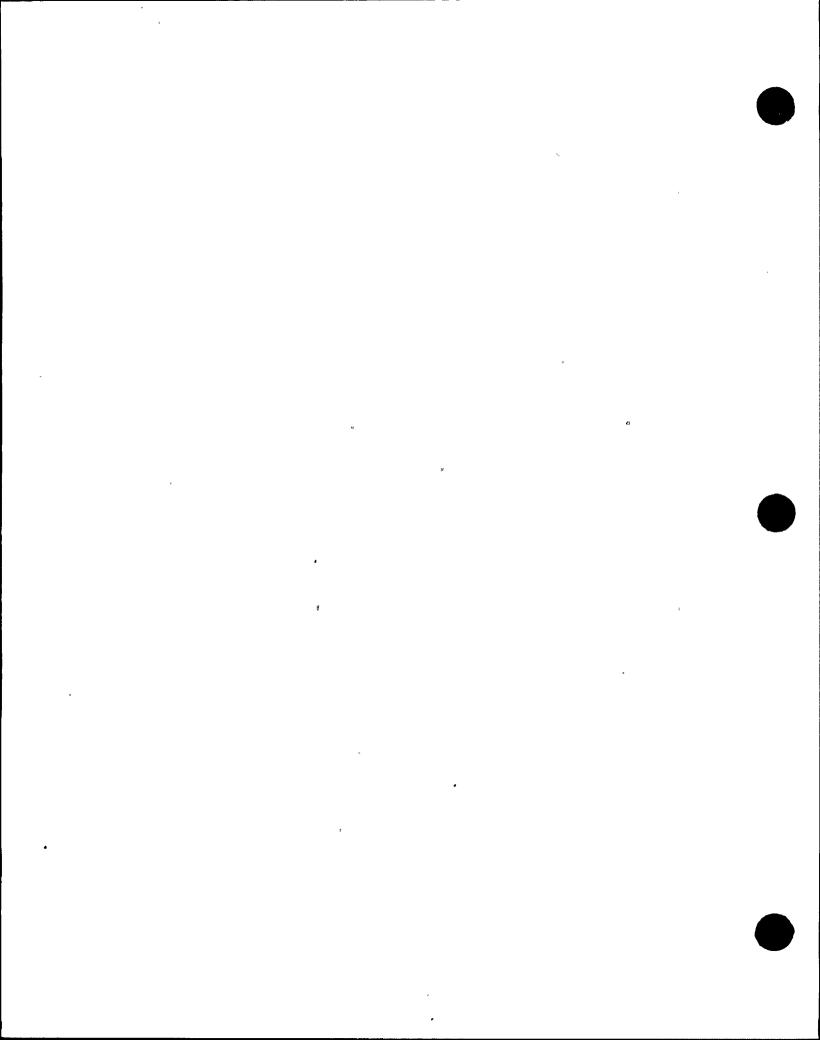
COMPONENT CATGORY/ EXAMINATION CAL. CAL. EXAM TYPE DATE RESULT CREDIT REGST. INDICATION RESOLUTION

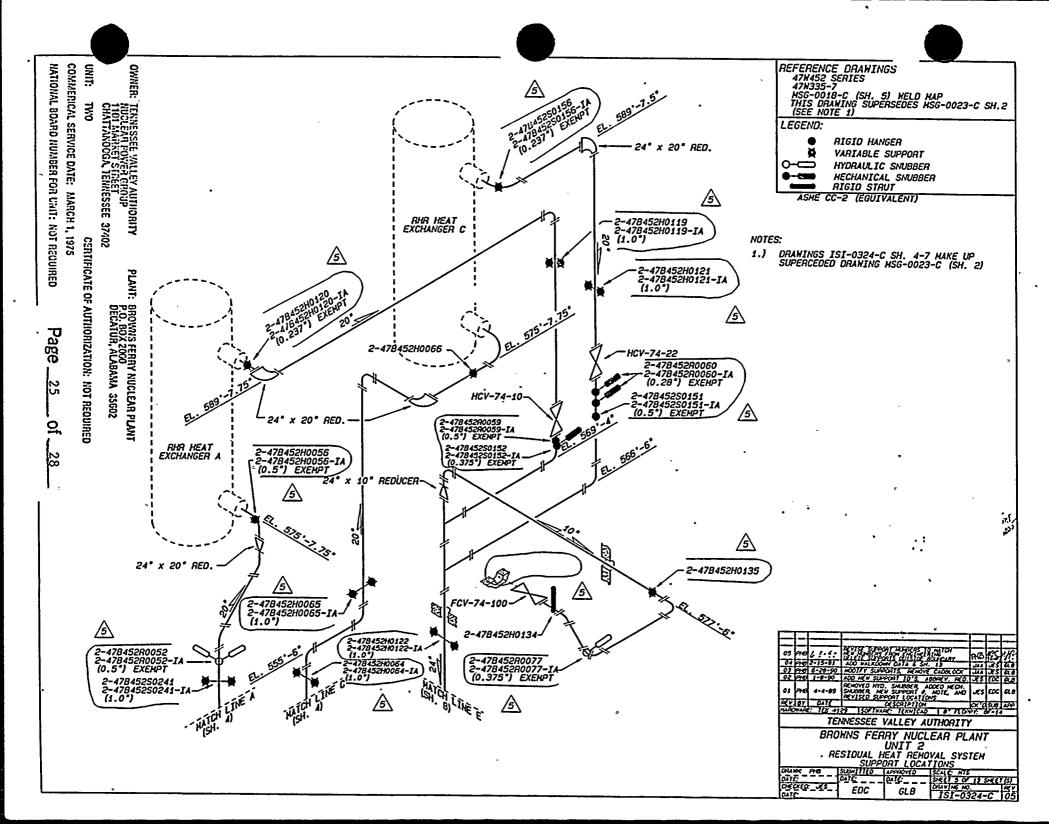
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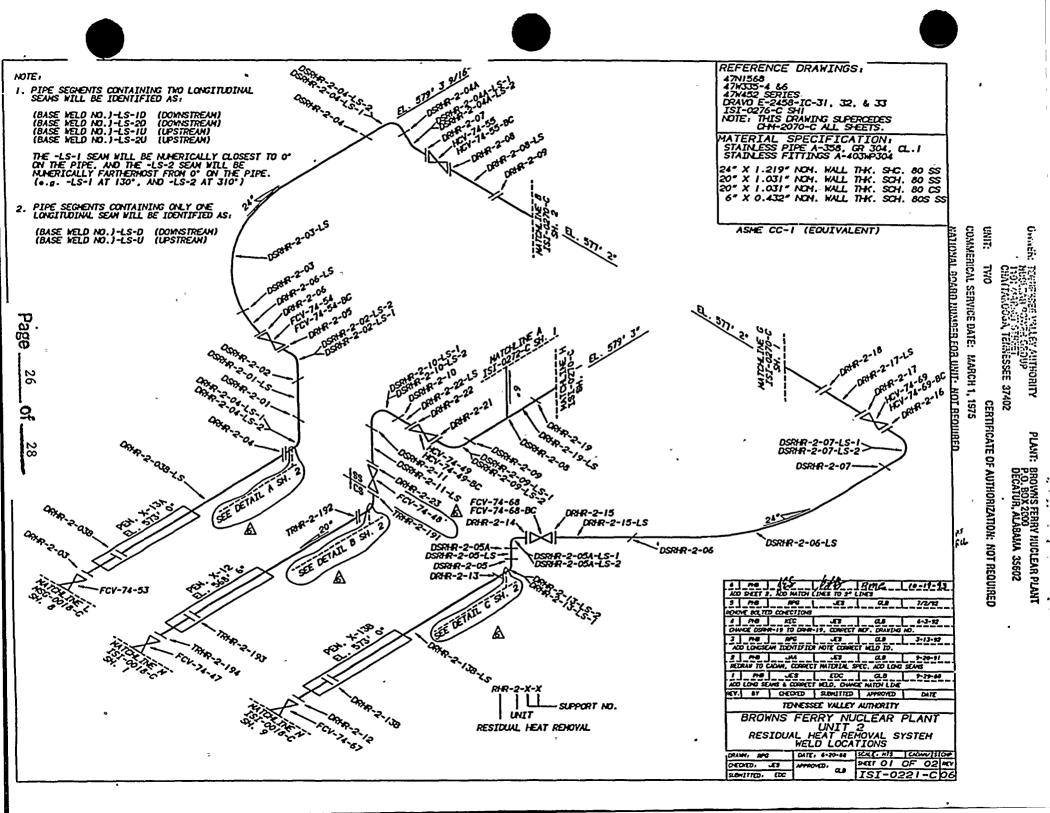
PENPIPE -ELBOW B-J R00000317

PT 19941019 PASS YES

PT 19941019 PASS YES







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:

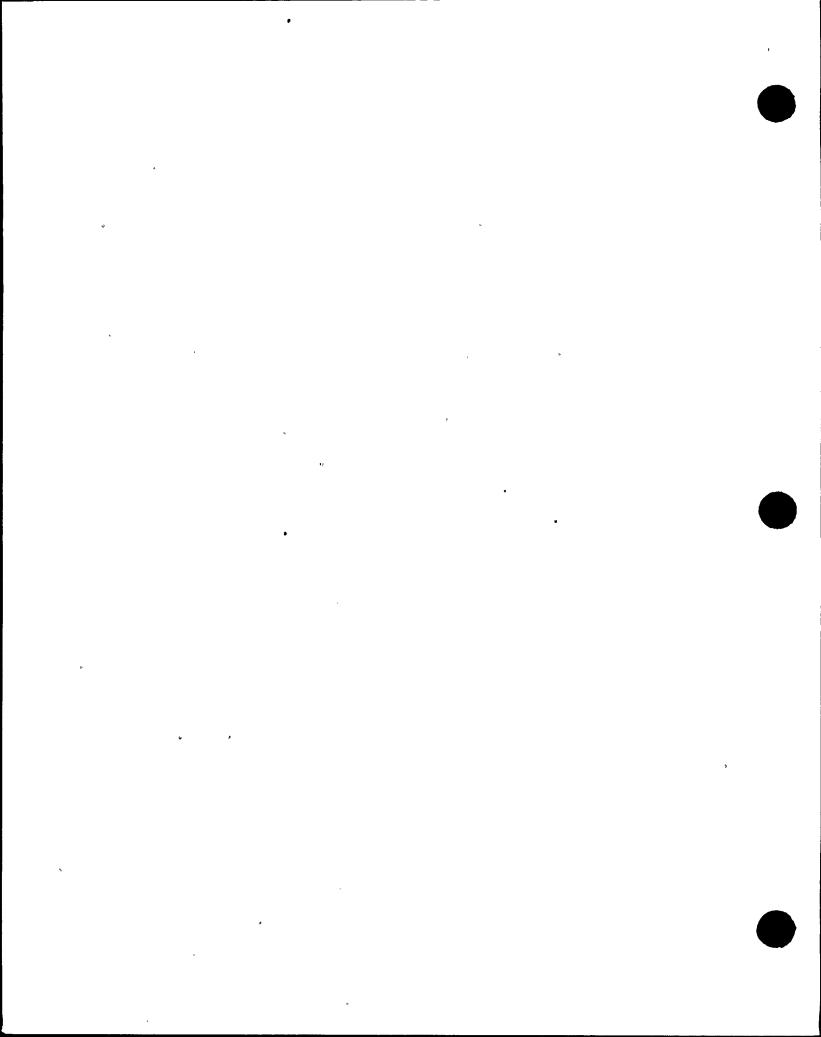
Two

Certificate of Authorization: Not Required

Commercial Service Date: March 1, 1975

National Board Number For Unit: Not Required

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REFERENCE DRAWINGS DRAVO E-2458-IC-34 DRAVO E-2458-IC-35 OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 NOTE: THIS DRAWING SUPERSEDES CHH-2071-C DECATUR, ALABAMA 35502 ALL SHEETS CHATTANODGA, TENNESSEE 37402 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED MATERIAL SPECIFICATIONS COMMERICAL SERVICE DATE: MARCH 1, 1975 12" SCH. 80 SA 333 GR6 CS 12.75" X .687" NOH. WALL THK. 12" SCH. 80 ASTH A358 GR 304 SS 12.75" X .687" NOH. WALL THK. NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED 10" SCH. 80 SA 333 GR6 CS 10.75" X .593" NOH. WALL THK. 10" SCH. 80 ASTH A358 GR 304 SS 10.75" X .593" NOH. WALL THK. TST-0107-C SH. 2 MICH LINE B. FCV-75-53. FCV-75-25 ASME CC-I (EQUIVALENT) DCS-2-12-FLUED HEAD FLUED HEAD DSCS-2-16A FLUED HEAD DSCS-2-16B FLUED HEAD TCS-2-421 (OL. TCS-2-405 HCV-75-55 HCV-75-55-BC STAINLESS STEEL HCV-75-27 HCV-75-27-BC STAINLESS STEEL DCS-2-03-LS 240 DCS-2-12-LS TCS-2-406 120. NSB TCS-2-422 DCS-2-04 DCS-2-13 DCS-2-04-LS Page ___ DSCS-2-01 DCS-2-13A SEE NOTE I 00% DCS-2-13-LS DSCS-2-01-LS DCS-2-13A-LS-CS/35 DSCS-2-02 28 DCS-2-07-DSCS-2-02-LS SEE NOTE I 005-2-05 FCV-75-26-9 DCS-2-07-LS 으 TCS-2-126 TCS-2-4231 TSCS-2-425 DSCS-2-09 TSCS-2-424 DSCS-2-09-LS DCS-2-14-FCV-75-54 FCV-75-54-BC TCS-2-410 TCS-2-407 TCS-2-409 TSCS-2-408 NOTE: I. WELDS DCS-2-07 AND DCS-2-13A ARE DRAVO SHOP WELDS. 32 4-25-90 ACO CS & SS BOUNDARY, CS SPET, DEL CADOUR [£000] 02 PHB JES 2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS: ADD NOTE 2 01 PHB OI PHB LES LEC CLB 12-15-48
ACD LONGSEM MELD TSCS-2-424-LS, CORRECT MITDRIAL SPECS 7 MG | STO | SHO | TOL | 1/AR/93 (BASE WELD NO.)-LS-D (DOWNSTREAM) (BASE WELD NO.)-LS-U (UPSTREAM) DXCS NEV. BY CHECKED SUBMITTED APPROVED TENESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT UNIT 2 CORE SPRAY SYSTEM WELD LOCATIONS DETET LONG SEARS ICS-2-403-18-1, -403-18-2, -410-18--411-5-1-421-18-2-424-18-1 -403-18-2-408-18, -424-18, REVISION BATE, DRAWINGS, ACO FILED HEAD METOS DECES-2-16A, -16B, DETETTO BOLIDO CONNECTIONS FCV-73-23-66, -33-66, MEDAN 10 CADM, ADD NOTE 1 REF. CORE SPRAY WELD NO. D-DRAVO FIELD WELD DS-DRAVO SHOP WELD T-TVA FIELD WELD TS-TVA SHOP WELD 5 MB BOG JES QS DATE: 5-17-89 SCALE, MIS CADAMISTON DRAWN. UNIT NO. SEET OI OF OILPEN JES APPROVED, neow. A PHE JAM LES QUE 5-20-91 as ISI-0271-C07 SLOWITTED: EDC

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ENCLOSURE 4

BROWNS FERRY NUCLEAR PLANT

CORRECTIONS TO THE
UNIT 2 CYCLE 6
NIS-1 AND NIS-2 REPORTS

DESCRIPTION OF THE CORRECTIONS TO BFN UNIT 2 CYCLE 6 NIS-1 AND NIS-2 REPORTS

This enclosure contains corrections to the BFN Unit 2 Cycle 6 NIS-1 and NIS-2 reports. The corrections are described below:

- Deleted ASME credit for RPV instrument nozzles N-11A and N-11B examination category B-E, item number B4.13.
- Deleted ASME credit for RWCU valve 69-580 examination category B-M-2, item number B12.50. Revised to show that a VT-2 examination of valve 69-580 was performed after repair/replacement. The VT-2 was performed during the pressure test.
- Revised item number for RPV stud examination from B6.30 to B6.20.
- Added ASME credit for VT-2 examination for RHR nozzle weep holes examination category C-B, item number C2.33.
- Revised NIS-2 for RWCU pipe/valve replacement to delete reference to code exception for RWCU-2-004-G073 and RWCU-2-004-74, since construction code volumetric examination (radiography) was utilized for preservice examination in conjunction with ASME Section XI ultrasonic examination to achieve the code required examination volume.

NUTECH SYSTEM : RHRSW RHR SERVICE WATER SYSTEM - 023 COMPONENT CATGORY/ EXAMINATION CAL. CAL. DESCRIPT. ITEM NO. REPORT NO. REPORT NO. STD. FEATURE NUMBER D-B D2.10 2-SI-3.3.13 HYDRO R00000313 VT-2 19930419 PASS YES

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M NUTECH	TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 ISI DATA BASE ON THE PROPERTY OF THE P	PRISIH	*
и н н	POST OUTAGE EXAMINATION RESULTS REPORT EXAM REQUIREMENT: 86E-02 CYCLE : 06 INTERVAL : 02 PERIOD : 1	HUNHHHHHHHHH * PAGE * REVISION * DATE 07/	28 × 0002 ×
	ЗЭННИНИННЯНИЯ НИВИНИННИНИЯ НЕВИЗИВНИЕ SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068 ISOHETRIC NUMBER : CHM-2046-C SHEET : 01	: - Семения - С	M MANAMAN MANA
FEATURE NUMBER	COMPONENT CATGORY/ EXAMINATION CAL. CAL. EXAM EXAM SEC XI RELIEF DESCRIPT, ITEM NO. REPORT NO. REPORT NO. STD. TYPE DATE RESULT CREDIT REGIST.		HOICATION ESOLUTION
HILA		TI	· 11/14/15
KIIB	INS NOZ 1-1 - R00000222	少1-5	5-95
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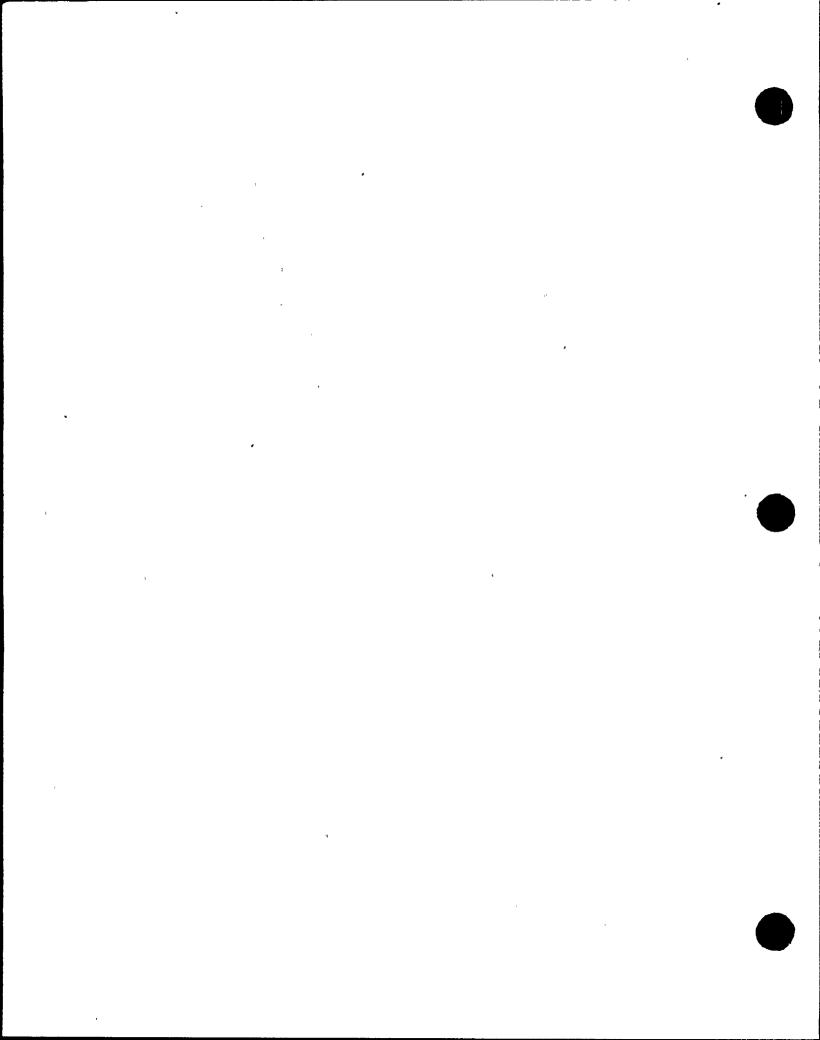
OWNER: TENNESSEE VALLEY AUTHORITY NUCLEAR POWER GROUP 1101 MARKET STREET CHATTANCOGA, TENNESSEE 37402

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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

00106



NUTECH * PRISIN N PAGE 51 N REVISIOH 0002 N DATE 07/19/93 SYSTEM : RNCUS REACTOR WATER CLEANUP SYSTEM - 069
ISOMETRIC NUMBER : ISI-0272-C SHEET : 01 COMPONENT DESCRIPT. CATGORY/ EXAMINATION CAL. CAL. ITEM NO. REPORT NO. REPORT NO. STD. EXAM SEC XI RELIEF RESULT CREDIT REGST. INDICATION RESOLUTION EXAH TYPE FEATURE NUMBER FCV-69-001 VAL IHT B-H-2 B12.50 R00000198 VT-3 19930312 PASS YES TRWCU-2-2 VALVE -VALVE B-J B9.11 R00000259 R00000260 C00000129 BF-01 UT-45 19930325 PASS GEOHETRIC GEOHETRIC GEOHETRIC HON-RELEVANT HON-RELEVANT HON-RELEVANT R00000260 C00000130 BF-01 R00000260 C00000131 BF-01 UT-45L 19930325 PASS UT-60 19930325 PASS YES YES gTK 1-6-95 222000083 19930520 PASS -B12.50

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY HUCLEAR POWER PLANT - UNIT 2'
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT: 86E-02 CYCLE: 06
INTERVAL: 02 PERIOD: 1 NUTECH PRISIN N PAGE . 52 N REVISION 0002 N DATE 07/19/93 SYSTEM : RNCUS REACTOR WATER CLEANUP SYSTEM - 069 - ISOMETRIC NUMBER : ISI-0272-C SHEET : 02 CATGORY/ EXAMINATION CAL. CAL. ITEM NO. REPORT NO. REPORT NO. SID. EXAH DATE SEC XI RELIEF CREDIT REQST. INDICATION TYPE EXAH RESULT FEATURE NUMBER B-J B9.40; 2-RDL-2 PIPE -ELBON R00000075 19930218 PASS YES

OWNER. TENNESSEE VALLEY AUTHORITY MUCLEAR POWER GROUP 1101 MARKET STREET CHATTAHOOGA, TENNESSEE 37402

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

UNIT:

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERICAL SERVICE DATE: MARCH 1, 1975

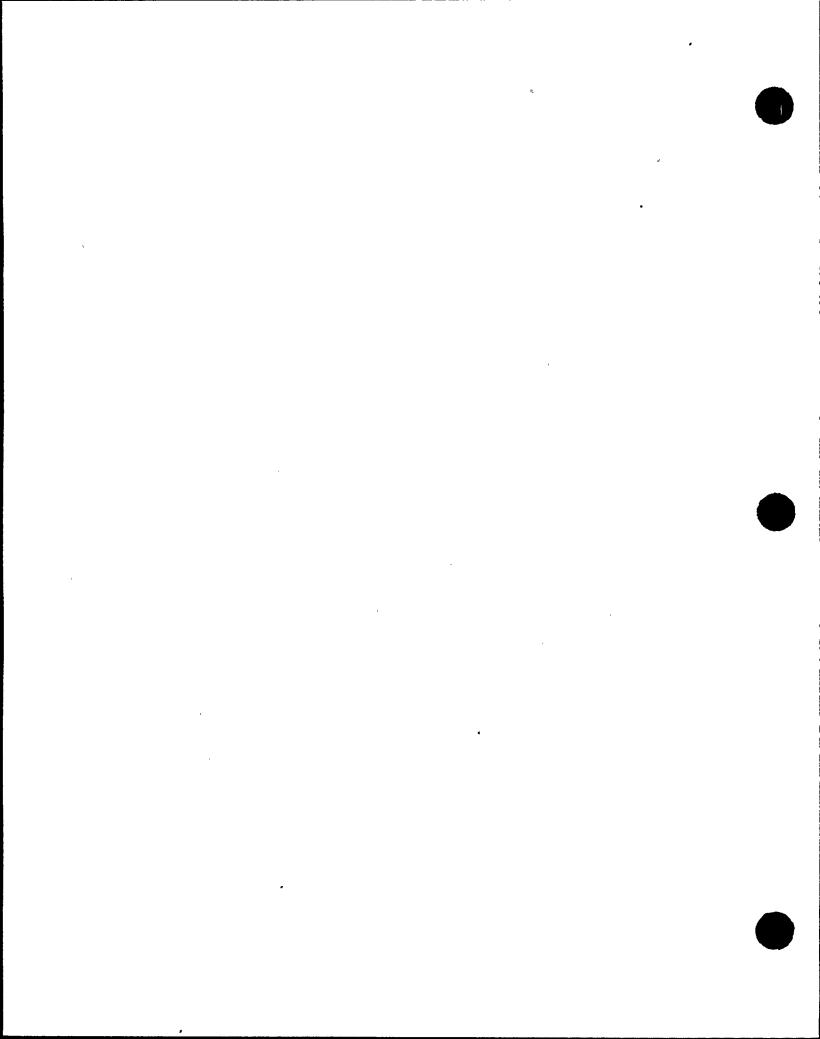
KATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

Page 3 of 9

如此一种"加加"的原理,但由各种"加强"的主义。 化二甲基磺基

Jelint. Lewis 1-6-95

Mont Tafe 1/18/95 ANII



NUTECH

RPV-STUDS-2-58

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR POHER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT: 86E-02 CYCLE: 06
INTERVAL: 02 PERIOD: 1

SYSTEH	:	RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER)	-	068	
TOOUTTOTE INJUDED		YCT-0244-C CIECT . AT			

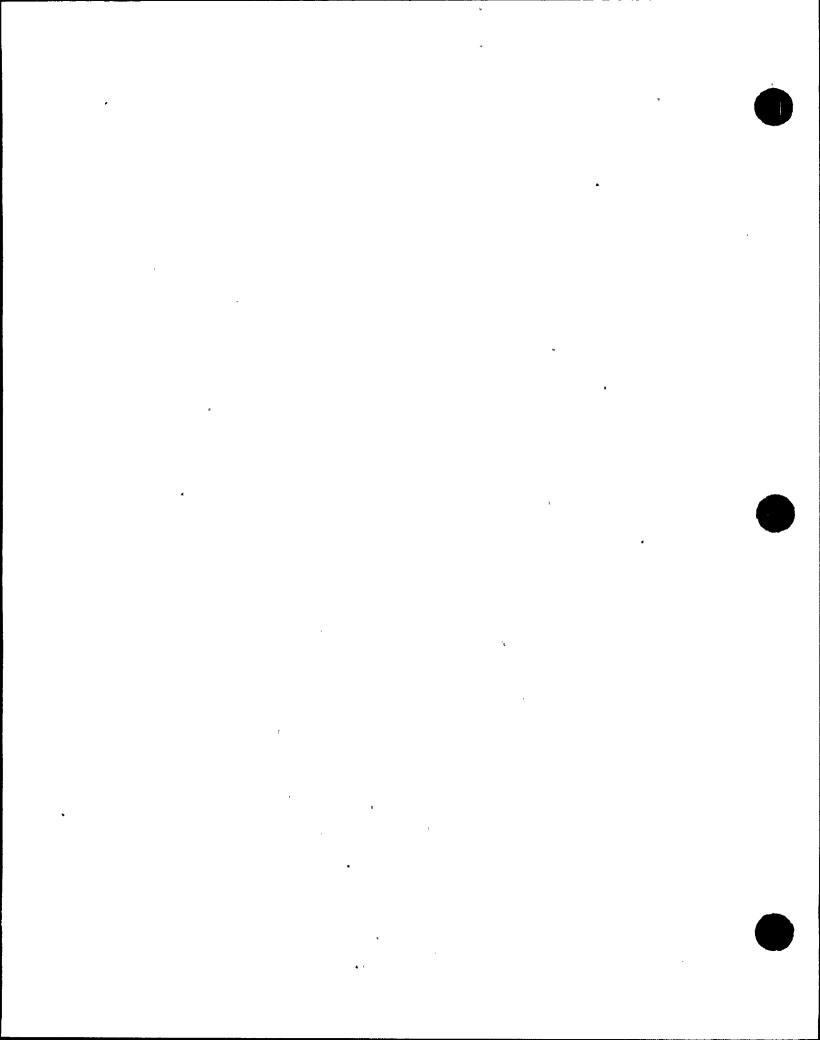
***************************************						*****						**********
FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.		CAL. SYD.	EXAN TYPE	EXAM DATE	EXAH RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
RPV-STUDS-2-08	CH BLTG	B-G-1 B6. 20	R00000035 R00000035	C00000004 C00000003	BF-73 BF-73	UT-CRP UT-60	19930131 19930131		YES YES			
RPV-STUDS-2-10	CH BLTG	B-G-1 B6. 20		C00000004 C00000003			19930131 19930131		YES YES	•	GEOHETRIC	NON-RELEVANT
RPV-STUDS-2-12	CH BLTG	B-G-1 B6. 20		C00000004 C00000003			19930131 19930131		YES YES			
RPV-STUDS-2-14	CH BLTG	B-G-1 B6. 20					19930131 19930131		YES YES			
RPV-STUDS-2-16		B-G-1 B6. 20					19930131 19930131		YES YES			
RPV-STUDS-2-20	CH BLTG						19930131 19930131		YES YES			
RPV-STUDS-2-26							19930131 19930131		YES YES	•		
RPV-STUDS-2-28							19930131 19930131		YES YES	•		
RPV-STUDS-2-30							19930131 19930131		YES YES			
RPV-STUDS-2-32							19930131 19930131		YES YES			
PPV-STUDS-2-34		B-G-1 B6. 20	R02000035	C00000004					YES	•		

John T. Livis 1-5-95

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HENNERHMENNERNERNERNERNERNERNERNERNERNERNERNERNE	, , , , ,		POST O	TENNESSEE FERRY NUCL ISI UTAGE EXAMI EQUIREHENT TERVAL: 02	EAR PON DATA B HATION : 86E-0	ER PLAN LASE RESULTS 12 CY PERIOD :	REPORT CLE : 06		***************************************	PRISI	**************************************
**************************************	SYSTEN ISOKETRIC N			OR PRESSURE SHEET : 01.	VESSEL	. (NUCLE	AR BOILER) - 068		*************	* * * * ******************************
FEATURE NUMBER	COMPONENT DESCRIPT.	ITEH HO.		REPORT HO.		EXAH TYPE	EXAM DATE		CREDIT	INDICATION TYPE	INDICATION RESOLUTION
RPV-STUDS-2-34	CH BLTG	B-G-1 B6. 20	R00000035	C00000003	BF-73	UT-60	19930131	PASS	YES		
RPV-STUDS-2-36	CH BLTG	B-G-1 B6. 20	R00000035 R00000035	C00000004 C00000003	BF-73 BF-73		19930131 19930131		YES YES		-
RPV-STUDS-2-38	CH BLTG	B-G-1 B6. 20	R00000035 R00000035	C00000004 C00000003	BF-73 BF-73		19930131 19930131		YES YES		
RPV-STUDS-2-40	CH BLTG	B-G-1 B6. 20	R00000035 R00000035	C00000004 C00000003	BF~73 BF~73		19930131 19930131		YES YES		
RPV-STUDS-2-43	CH BLTG	B-G-1 B6. 20	R00000035 R00000035	C00000004 C00000003	BF~73 BF~73		19930131 19930131		YES YES		
RPV-STUDS-2-44	CH BLTG	B-G-1 B6. 20	R00000035 R00000035	C00000004 C00000003	BF-73 BF-73		19930131 19930131		YES YES		•
RPV-STUDS-2-46	CH BLTG	B-G-1 86. 20	R00000035 R00000035	C00000004 C00000003	BF-73 BF-73		19930131 19930131		YES YES	GEOHETRIC	NON-RELEVANT
RPV-STUDS-2-52	CH BLTG	B-G-1 B6. 20	R00000035 R00000035			UT-60 UT-90	19930131 19930131		YES YES	_	a
RPV-STUDS-2-54	CH BLTG	B-G-1 B6. 20	R00000035 R00000035	C00000003 C00000006	BF-73 BF-73	UT-60 UT-90	19930131 19930131		YES .	Page _5	-ot -9
RPV-STUDS-2-56	CH BLTG	B-G-1 B6. 20	R00000035 R00000035		BF-73 BF-73	UT-60 UT-90	19930131 19930131		YES YES		

R00000035 C00000003 BF-73 UT-60 19930131 PASS



CATGORY/ EXAMINATION CAL. CAL. ITEM NO. REPORT NO. REPORT NO. STD. INDICATION TYPE COMPONENT DESCRIPT. EXAM SEC XI RELIEF RESULT CREDIT REGST. INDICATION RESOLUTION FEATURE NUMBER RPV-STUDS-2-58 B-G-1 B6. 20 R00000035 C00000006 BF-73 UT-90 19930131 PASS YES CH BLTG B-G-1 B6. 20 R00000035 C00000003 BF-73 UT-60 R00000035 C00000006 BF-73 UT-90 RPV-STUDS-2-60 CH BLTG

John T. Livis 1-5-95

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Page _6__ of _9__

HAMMANAMANAMANAMANAMANAMANAMANAMANAMANAM			POST OF	TENNESSEE FERRY HUCK ISI JTAGE EXAMI OUIREMENT ERVAL: 02	EAR POL DATA E NATION : 86E-0	IER PLAN BASE RESULTS	T - UNIT REPORT CLE : 06				PRISI **********************************	ж жинининини 25 ж 0N 0002 ж
и и и и	SYSTEH ISOHETRIC N	UHBER :	RHRS RESIDU ISI-0406-C S	IAL HEAT REI HEET : 01	HOVAL S	YSTEH -	074 *******	******	(MMKNMM)	(NKXMNN)	,	- NAKKHHKKKKK - M - M - M - M - M
FEATURE NUMBER	COMPONENT DESCRIPT.		EXAMINATION REPORT NO.		CAL. STD.	EXAH TYPE	EXAH DATE	EXAH RESULT	SEC XI CREDIT		INDICATION TYPE	INDICATION RESOLUTION
RHRG-2-05-A ,	VES NOZ	C-B C2.33	R0C000315	_		v1-2	19930423	PASS	YES	,		
RHRG-2-06-A	VES NOZ	C-B C2.33	R00000315			VT-2 _.	19930423	PASS	YES			

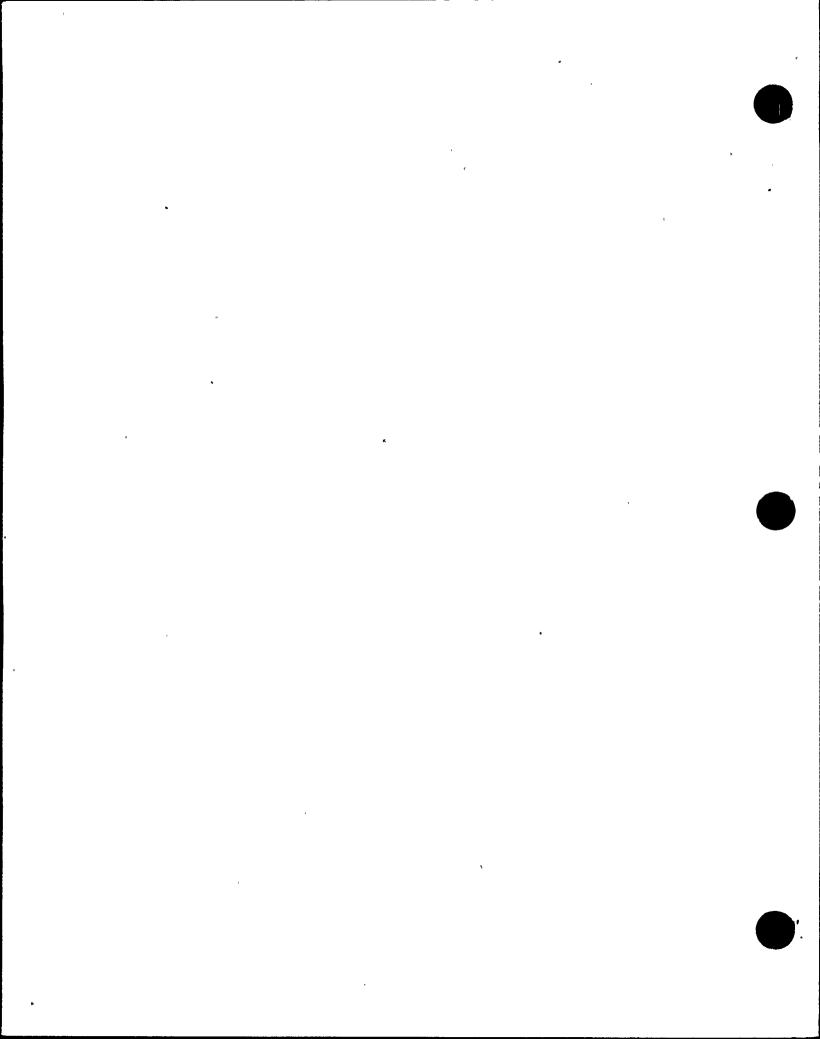
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Page 7_ of 9_

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

	As Requ	ired by the Pro	visions of the A	ASME Code Section	on XI					
. Owner Tenne	essee Valley A	Authority	 ,	Date June	14, 1	993				
				Sheet of8						
	nooga, TN 3			•	of <u>&_</u>	., <u>.</u>				
. Plant Browns	Ferry Nuclea			Unit 2 Work Orders 93	-00754-4	00 93-0075/)1 and			
P.O. Box 20	00; Decatur,	AL 35609		noted Work Pla	ns for l	DCN W18298				
	Address					.O. No., Job No.,	etc.			
Work Performed by	y General Ele usiness Center	ectric Comp	oany	Type Code Symbol	Stamp	N/A				
King of Pruss	Diness Circl			Authorization No Expiration Date	N/A	A				
	Address									
, Identification of Sy	ystem System 6	9, Reactor	: Water Cle	eanup						
(b) Applicable Edi	nstruction Code tion of Section XI Ut omponents Repaired (lized for Repairs	or Replacements	19_86	ddenda,_		Code Case			
Name of Component	Name of Manufactu		National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)			
	Replaced va	rious port	ions of th	e RWCU pipin	g, ren	noved and r	enlacec			
Description of World	two hangers									
Tests Conducted:	Hydrostatic X Pn Other Pressure per WO 93-00	150/1110 psi	Test Temp7	<u>'8/71</u> _° _F	vely	Page 8	of			
NOTE: Supplemention in items 1 throrecorded at the top	stal sheets in form of ough 6 on this report of this form.	lists, sketches, o	or drawings may beach sheet, and (e used, provided (1) 3) each sheet is num	size is 8½ nbered and	in. x 11 in., (2) indicate the second in the number of s	nforma- heets is			
2/82)	This Form (E0003	o) may be obtain	ed from the Orde	r Dept., ASME, 345	E. 47th S	t., New York, N.Y	'. 10017			
For informat:	ion required	in Items 5	and 6, se	e attached s	heets	2 through	8.			
		Page (5 of 18	5						



FORM NIS-2 (Back)

Work Order 93-00754-00 was performed by TVA personnel which 9. Remarks hydrostatically pressure tested the RWCU piping between valves Applicable Manufacturer's Data Reports to be attached

2-FCV-69-2, 2-69-500, and 2-10-505. TVA personnel also performed the hydrostatic pressure test of check valve 2-69-630 and associated welds per WO 93-00754-01 following installation by General Electric. Both tests fulfilled the hydrostatic pressure test requirements for ASME Code Class 1 equivalent components.

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 repair or replacement ASME Code, Section XI
ASME Code, Section XI With the exception as noted below.* 12/8/94 11/19/95
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed John System ENCINEER Date JUNE 14 , 19 93 Owner or 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 TENN: and employed by HRS/FOOD, SIM, BUR, THEP, 4 THE, CO, of
in this Owner's Report during the period 4-16-93 to 6-16-93, 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.
13. J. 17 Commissions G635, IENN - A-N-T. Inspector's Signature Commissions G635, IENN - A-N-T. National Board, State, Province, and Endorsements
Inspector's Signature National Board, State, Province, and Endorsements
Date 6-16 1993

Exception to Code requirement - Preservice examination for welds RWCU-2-004-G073 and RWCU-2-004-G074 were unable to be 100% volumetrically examined as documented in Work Plan 2554-92; percent coverage was limited to 87.2% and 32.0% respectively. Request for Relief is pending submittal to NRC as prev agreed to with Site Licensing. That ANSE NOGOON TN 3135 Page 9 of 9

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