

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

UNIT: THREE CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1977

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

ASME SECTION XI
INSERVICE INSPECTION SUMMARY REPORT
FOR
BROWNS FERRY NUCLEAR PLANT
UNIT 3 CYCLE 7
REFUELING OUTAGE
FEBRUARY 22 - MARCH 13, 1997

9706170323 970610
PDR ADDCK 05000296
G PDR



ENCLOSURE 1

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT (BFN)
UNIT 3

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), SECTION XI
INSERVICE INSPECTION (ISI), AND AUGMENTED EXAMINATIONS PROGRAM

SUMMARY REPORT (NIS-1) FOR CYCLE 7 OPERATION

(SEE ATTACHED)



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UNIT 3 CYCLE 7

NIS-1

"OWNER'S REPORT FOR INSERVICE INSPECTION"

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NIS-1 OWNER'S REPORT



FORM NIS-1 OWNERS' REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner Tennessee Valley Authority, 1101 Market St. Chattanooga, TN. 37402
(Name and Address of Owner)
2. Plant Browns Ferry Nuclear Plant, P.O. Box 2000 Decatur, AL. 35602
(Name and Address of Plant)
3. Plant Unit 3 4. Owner Certificate of Authorization Not Required
5. Commercial Service Date 03/01/1977 6. National Board Number for Unit Not Required
7. Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Pressure Vessel	General Electric	Contract No. 67C21-91750	N/A	N/A
Various systems and components. (See Appendix I)	TVA	N/A	N/A	N/A
The NIS-1 Owners Report for Inservice Inspections includes Appendices I, II, III				

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8.5 in. X 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-1 (back)

8. Examination Dates 11/19/96 to 3/13/97
9. Inspection Interval from 11/19/96 to 11/18/2005
10. Applicable Editions of Section XI 1989 Addenda N/A
11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Appendix I, II. Examinations complete the first outage of the first period of the second inspection interval.
12. Abstract of Conditions Noted. See Appendix II
13. Abstract of Corrective Measures Recommended and Taken. See Appendix II

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date May 9, 1997 Signed Tennessee Valley Authority
Owner

By 

Certificate of Authorization No. Not Applicable

Expiration Date Not Applicable

CERTIFICATE OF INSERVICE INSPECTION

I, The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Tennessee and employed by HSBI & I of Hartford, CT., have inspected the components described in this Owners' Report during the period 11/19/96 to 3/13/97, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of the ASME Code Section XI.

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


Inspector's Signature

Commissions TN 3135 "N" "I"
National Board, State, Province and No.

Date May 14, 1997

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402	PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602
UNIT: THREE	
CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.	
COMMERCIAL SERVICE DATE: MARCH 1, 1977	
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.	

Inservice Inspection Introduction Summary

In accordance with paragraph IWA-6220 of Section XI of the ASME Boiler and Pressure Vessel Code Section XI 1989 Edition, the following information is provided.

1. Date of document completion: May 9, 1997

2. Name of owner and address of principal offices:

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

3. Name and address of the nuclear generating plant:

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

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

Browns Ferry Nuclear Plant, Unit 3.

5. Commercial operation date of unit:

March 1, 1977

6. Numbers assigned to the components by the state:

No numbers assigned

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

No numbers assigned

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

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

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

The majority of components examined were supplied by:

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

10. Date of completion of the examinations:
March 13, 1997

11. Name of ANII who witnessed or otherwise verified the examinations and his employer and business address:

Albert L. Ladd, and Charles E. Metcalf.
The Hartford Steam Boiler Inspection and Insurance Company
200 Ashford Center North, Suite 300
Atlanta, Georgia 30338

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

See NIS-1 Owners Report and appendices I, II, and III

13. Signature of ANII:

See NIS-1 form.

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SCOPE
AND
INTRODUCTION



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Scope:

The scope of this appendix is to provide an overview of the Inservice inspections performed during the Unit 3 Cycle 7 outage on Class 1 and 2 components for ASME Section XI Code credit.

Introduction:

The examinations were performed during the Unit 3 Cycle 7 outage in accordance with implementing plant surveillance instruction 3-SI-4.6.G "Inservice Inspection Program Unit 3". 3-SI-4.6.G is organized to comply with the ISI NDE requirements of the 1989 Edition of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Division 1, No Addenda, Articles IWX-1000, IWX-2000, IWX-3000, and IWX-6000 in accordance with Title 10 Code of Federal Regulations (CFR) Part 50, 50.55a (g); to implement the Browns Ferry Nuclear Plant (BFN) Technical Specifications, Unit 3, Surveillance Requirement 4.6.G.; and to fulfill the requirements of SSP-6.10, ASME Section XI Inservice Inspection Program.

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

The majority of examinations were performed by TVA Engineering and Technical Services, Inspection Services Organization (ISO) of Chattanooga under the direction of Browns Ferry Component Engineering Section. Augmentation of personnel was provided by ABB Combustion Engineering Nuclear Power NDE Services, General Electric Nuclear Energy (GE), General Technical Services (GTS), and MQS Corporation.

An overview of ISI activities consists of the following:

- . ASME Section XI Class 1 and 2 components, piping, supports, and integral attachment examinations
- . ASME Section XI Reactor Pressure Vessel nozzle, studs, nuts, ligaments, washers and bushing Examinations
- . Augmented Examinations (IGSCC, IVVI, RV Shroud, etc.)



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EXAMINATION LIMITATIONS
AND
REQUEST FOR RELIEF



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METHOD OF CALCULATION OF LIMITATIONS

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

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

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

Paragraph IWA-2232 of the Code requires that the ultrasonic examination of piping systems be conducted in accordance with Appendix III of the Code. This same paragraph requires that the ultrasonic examination of nozzle-to-vessel welds be conducted in accordance with Article 4 of ASME Section V 1989, Edition. Appendix III and Article 4 define, in part, the applicable examination methods (e.g. examination angles, scan directions) to be used during examination. Paragraphs IWA-2221 and IWA-2222 of the Code require that surface examinations be conducted in accordance with Article 6 or 7, as applicable, of ASME Section V 1989 Edition.

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



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EXAMINATION LIMITATIONS:

A tabulation of NDE examination limitations recorded during the Unit 3 Cycle 7 Inservice Inspection are listed below.

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

<u>SYSTEM</u>	<u>COMPONENT ID</u>	<u>METHOD</u>	<u>COVERAGE CALCULATED</u>	<u>REPORT NO.</u>
FW	GFW-3-01	UT	98.0%	R-222
MS	DMS-3-09	UT	98.3%	R-194
RHR	3-47B452-1400-IA	MT	90.9%	R-007
RHR	3-47B452-1543-IA	MT	90.9%	R-012
RHR	3-47B452-1545-IA	MT	97.6%	R-017
RHR	TRHR-3-333	UT	95.0%	R-021
RHR	RHRG-3-07B	UT	95.0%	R-038
RHR	3-47B452-1444-IA	MT	90.9%	R-047
RHR	3-47B452-1389-IA	MT	92.2%	R-049
RHR	3-47B452-1383-IA	MT	90.7%	R-050
RHR	TRHR-3-374	MT	98.0%	R-052
RHR	TRHR-3-374	UT	98.0%	R-053
CRD	TCRD-3-013	MT	97.5%	R-091
RPV	RWR-3-003-G001	UT	97.0%	R-188
RPV	RCH-3-2V	UT	97.3%	R-228
RPV	RCH-3-1V	UT	90.03%	R-233
RPV	N6A-IR	UT	90.3%	R-243



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<u>SYSTEM</u>	<u>COMPONENT ID</u>	<u>METHOD</u>	<u>COVERAGE CALCULATED</u>	<u>REPORT NO.</u>
FW	GFW-3-01	UT	98.0%	R-222
MS	DMS-3-09	UT	98.3%	R-194
RHR	3-47B452-1400-IA	MT	90.9%	R-007
RHR	3-47B452-1543-IA	MT	90.9%	R-012
RHR	3-47B452-1545-IA	MT	97.6%	R-017
RHR	TRHR-3-333	UT	95.0%	R-021
RHR	RHRG-3-07B	UT	95.0%	R-038
RHR	3-47B452-1444-IA	MT	90.9%	R-047
RHR	3-47B452-1389-IA	MT	92.2%	R-049
RHR	3-47B452-1383-IA	MT	90.7%	R-050
RHR	TRHR-3-374	MT	98.0%	R-052
RHR	TRHR-3-374	UT	98.0%	R-053
CRD	TCRD-3-013	UT	97.5%	R-091
RPV	RWR-3-003-G001	UT	97.0%	R-188
RPV	RCH-3-2V	UT	97.3%	R-228
RPV	RCH-3-1V	UT	90.03%	R-233
RPV	N6A-IR	UT	90.3%	R-243



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EXAMINATIONS REQUIRING REQUEST FOR RELIEF

The following items/components had examination limitations on NDE examinations outside those specified in Code Case N-460. The Inservice Inspection Program 3-SI-4.6.G will be revised to incorporate these limitations in the form of Requests for Relief (RFR). Program revisions, including Requests for Relief, will be submitted to the NRC.

<u>SYSTEM</u>	<u>COMPONENT ID</u>	<u>CODE</u> <u>CAT.</u>	<u>CALCULATED</u> <u>COVERAGE</u>	<u>EXAM</u> <u>METHOD</u>	<u>REPORT</u> <u>NUMBER</u>	<u>RFR NO.</u>
RHRS	RHR-3-H-146-1A	C-C	88.8 %	MT	R-0013	3-ISI-4
RHRS	3-47B452-1385-1A	C-C	89.4 %	MT	R-0048	3-ISI-4
RHRS	3-47B452-1451-1A	C-C	85.2 %	MT	R-0018	3-ISI-4
RPV	N6A	B-D	51.4 %	UT	R-0247	3-ISI-7



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ISL SUMMARY



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Examination Summary:

The Unit 3 Cycle 7 Inservice Inspection (ISI) was the first scheduled refueling outage during the first inspection period of the second ASME Section XI 10-year inspection interval. A total of 149 visual, 119 ultrasonic, 18 liquid penetrant, and 93 magnetic particle examinations were performed in support of code credit components, including additional samples and re-examinations (see Appendix I, Examination Plan).

Other examinations were performed in accordance with BFN's augmented inspection program and are included in Appendix III for information. A total of 26 visual, and 61 ultrasonic examinations were performed in accordance with the augmented program. Other examinations included In-vessel Visual Inspection (IVVI) on Unit 3 RPV internals, ultrasonic examination on the CRD Return Line Reroute (NUREG 0619), ultrasonic inspection of the RPV core shroud and ultrasonic examination of piping welds for IGSCC.



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ASME Code Cases

The following code cases were utilized for Inservice Inspection during the Unit 3 Cycle 7 outage:

- N-307-1 Revised Ultrasonic Examination Volume for Class 1 Bolting, Table IWB-2500-1, Examination Category B-G-1, When the Examinations Are Conducted From the Center-Drilled Hole, Section XI, Division 1
- N-435-1 Alternative Examinations Requirements for Vessels With Wall Thickness 2 in. or Less, Section XI, Division 1
- N-457 Qualification Specimen Notch Location for Ultrasonic Examination of Bolts and Studs, Section XI, Division 1.
- N-460 Alternative Examination Coverage for Class 1 and Class 2 Welds, Section XI, Division 1
- N-461 Alternative Rules for Piping Calibration Block Thickness, Section XI, Division 1
- N-491 Alternative Rules for Examination of Class 1, 2, 3, and MC Component Supports of Light-Water Cooled Power Plants, Section XI, Division 1.
- N-503 Limited Certification of Nondestructive Examination Personnel, Section XI, Division 1
- N-524 Alternate Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping - Section XI, Division 1(submitted to NRC for approval and use at BFN Unit 3 in accordance with 10CFR50.55a(a)(3))

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UNIT 3 INTERVAL STATUS

The BFN Unit 3 Cycle 7 ISI examinations were performed during the first outage of the first period of the second interval. The component quantities examined were determined from 3-SI-4.6.G, Table A (Unit 3 Class 1, 2, and 3 components) and from applicable BFN Unit 3 relief requests. This NIS-1 report covers the Cycle 7 outage for Browns Ferry Unit 3. The following table summarizes the percentage of Code required examinations completed to date:

TABLE 1

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

<u>CATEGORY</u>	<u>% COMPLETE</u>	<u>COMMENTS</u>
B-A	33 %	Required and not deferred
B-B	N/A	
B-D	3 %	
B-E	0 %	Deferred to system hydro
B-F	18 %	
B-G-1	33 %	
B-G-2	13%	
B-H	0 %	
B-J	21 %	
B-K-1	22 %	
B-L-1	N/A	
B-L-2	0 %	
B-M-1	N/A	
B-M-2	34 %	
B-N-1	0 %	
B-N-2	0 %	Deferral permissible
B-O	0 %	Deferral permissible
B-P	*	Refer to pressure test program
B-Q	N/A	
C-A	33 %	
C-B	0 %	
C-C	19 %	
C-D	N/A	
C-F-1	15 %	
C-F-2	33 %	
C-G	N/A	
C-H	*	Refer to pressure test program
D-B	30 %	
D-C	100 %	
F-A	26 %	



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SUCCESSIVE EXAMINATIONS

No ASME, Section XI code required successive examinations were performed in the Unit 3 Cycle 7 refueling outage.

PERSONNEL/EQUIPMENT CERTIFICATIONS:

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

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



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APPENDIX I

EXAMINATION PLAN

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NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.	

EXAMINATION PLAN

The following printout is known as an Outage ISI report designed to meet the reporting requirements of IWA-6000 of the ASME Section XI Code. This report contains Unit 3 Cycle 7 Inservice inspection data for Class 1 and Class 2 components for Section XI code credit. Appendix III contains a summary of Augmented examinations performed during Unit 3 Cycle 7 Outage. Essential unit and system files are contained herein as a reference to describe abbreviations and features in the printout. This information precedes the Outage ISI report.

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



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

UNIT: THREE CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1977

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

KEY TO COMPUTERIZED DATA
BASE TRACKING SYSTEM

OWNER: TENNESSEE VALLEY AUTHORITY OFFICE OF NUCLEAR POWER 1101 MARKET STREET CHATTANOOGA, TENNESSEE 37402	PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000 DECATUR, ALABAMA 35602
UNIT: THREE CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.	
COMMERCIAL SERVICE DATE: MARCH 1, 1977	
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.	

EXAM REQUIREMENT

89E-02

Component listing and ISI 10 year plan 89E-02. ASME Section XI, 1989 Edition, Second Interval. The 1989 Edition, ASME Section XI, Interval 02 only.

B01-02

Augmented examination component listing : B01-02. BWR Feedwater nozzle and Control Rod Drive return line nozzle examination per NUREG 0619.

B02-02

Augmented examination component listing : B02-02. Augmented examination per NUREG 0313, revision 2, Detection of Innergranular Stress Corrosion Cracking. Generic letter 88-01

B03-02

Augmented examination component listing : B03-02. Augmented examinations per IE-Bulletin 80-13 - cracking related to Core Spray Spargers

B06-02

Augmented examination component listing : B06-02. Augmented examinations of RPV internal components. Examinations per SIL-289, 420 , 465, 551, 554, 572, 574, 588, and 605

PER

PER 960004

PC7-02

Repair/Replacement component listing: Preservice examination of components examined.

V01-02

Voluntary examinations

SYSTEM - System / Component

CRDS - Control Rod Drive System

CSS - Core Spray System

FPCS - Fuel Pool Cooling

FWS - Feedwater System

HPCIS - High Pressure Coolant Injection System

MSS - Main Steam System

RCICS - Reactor Core Isolation Cooling System

RECIRC - Recirculation System

RHRS - Residual Heat Removal System

RHRWS - Residual Heat Removal Service Water System

RPV - Reactor Pressure Vessel

RWCUS - Reactor Water Cleanup System

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EXAM SCHEDULE - Nondestructive Examination (NDE) Method

ET - Eddy Current Examination
MT - Magnetic Particle Examination
PT - Penetrant Examination
RT - Radiography Examination
UT - Ultrasonic Examination
VT - Visual Examination

EXAM RESULTS - Pass or Fail

P - Pass; Examination results are acceptable
F - Fail; Examination results are not acceptable. Additional examination (IWB-2430) required.
R - Reinspect; Component reinspected by a different technique. Pass/fail not determined by this method.
E - Engineering; Examination results not acceptable but component is acceptable for continued use. Results evaluated by Engineering and determined to use "As Is". A USQD is attached and successive examinations (IWB-2420) are not required.
C - Continued Use; Examination results not acceptable but component is acceptable for continued use. Successive examination (IWB-2420) required. Service based on an Engineering evaluation (Fracture Mechanics) of the indication.
D - Discarded; Item replaced, reinspected Preservice Inspection (PSI) performed. No additional examinations required.

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COMMERCIAL SERVICE DATE: MARCH 1, 1977

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UNIT 3 CYCLE 7

ISI REPORT OF CLASS 1 AND CLASS 2
COMPONENTS



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

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

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT 89E-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	RCH-3-1V	ISI-0295-A 01	B-A	B1.22	UT-0	BF-19	19970228	R-233	P	
RPV	RCH-3-1V	ISI-0295-A 01	B-A	B1.22	UT-45	BF-19	19970228	R-233	P	
RPV	RCH-3-1V	ISI-0295-A 01	B-A	B1.22	UT-60	BF-19	19970228	R-233	P	
RPV	RCH-3-2V	ISI-0295-A 01	B-A	B1.22	UT-0	BF-19	19970228	R-228	P	INDIC. EVAL. ACCEPTABLE
RPV	RCH-3-2V	ISI-0295-A 01	B-A	B1.22	UT-45	BF-19	19970301	R-228	P	INDIC. EVAL. ACCEPTABLE
RPV	RCH-3-2V	ISI-0295-A 01	B-A	B1.22	UT-45	BF-19	19970302	R-228	P	INDIC. EVAL. ACCEPTABLE
RPV	RCH-3-2V	ISI-0295-A 01	B-A	B1.22	UT-45	BF-19	19970228	R-228	P	INDIC. EVAL. ACCEPTABLE
RPV	RCH-3-2V	ISI-0295-A 01	B-A	B1.22	UT-60	BF-19	19970302	R-228	P	INDIC. EVAL. ACCEPTABLE
RPV	RCH-3-2V	ISI-0295-A 01	B-A	B1.22	UT-60	BF-19	19970301	R-228	P	INDIC. EVAL. ACCEPTABLE
RPV	N&A-IR	ISI-0295-A 01	B-D	B3.100	UT-19L	BF-81	19970301	R-243	P	
RPV	N&A-IR	ISI-0295-A 01	B-D	B3.100	UT-21L	BF-81	19970301	R-243	P	
RPV	N&A-IR	ISI-0295-A 01	B-D	B3.100	UT-27L	BF-81	19970301	R-243	P	
RPV	N&A-IR	ISI-0295-A 01	B-D	B3.100	UT-32L	BF-81	19970301	R-243	P	
RPV	N&A	ISI-0295-A 01	B-D	B3.90	UT-0	BF-19	19970228	R-247	P	PROP. RFR 3-ISI-7
RPV	N&A	ISI-0295-A 01	B-D	B3.90	UT-0	BF-19	19970301	R-247	P	PROP. RFR 3-ISI-7
RPV	N&A	ISI-0295-A 01	B-D	B3.90	UT-45	BF-19	19970227	R-247	P	PROP. RFR 3-ISI-7
RPV	N&A	ISI-0295-A 01	B-D	B3.90	UT-60	BF-19	19970227	R-247	P	PROP. RFR 3-ISI-7
RPV	RWR-3-002-G004	ISI-0328-C 02	B-F	B5.10	PT		19970227	R-173	P	N2B@60 RECIRC
RPV	RWR-3-002-G004	ISI-0328-C 02	B-F	B5.10	UT-45	BF-72	19970228	R-191	P	N2B@60 RECIRC
RPV	RWR-3-002-G004	ISI-0328-C 02	B-F	B5.10	UT-45	BF-70	19970228	R-191	P	N2B@60 RECIRC
RPV	RWR-3-002-G004	ISI-0328-C 02	B-F	B5.10	UT-45L	BF-72	19970228	R-191	P	N2B@60 RECIRC
RPV	RWR-3-002-G004	ISI-0328-C 02	B-F	B5.10	UT-45L	BF-70	19970228	R-191	P	N2B@60 RECIRC
RPV	RWR-3-002-G010	ISI-0328-C 02	B-F	B5.10	PT		19970227	R-176	P	ND2@120 RECIRC
RPV	RWR-3-002-G010	ISI-0328-C 02	B-F	B5.10	UT-45	BF-70	19970301	R-207	P	ND2@120 RECIRC
RPV	RWR-3-002-G010	ISI-0328-C 02	B-F	B5.10	UT-45	BF-72	19970301	R-207	P	ND2@120 RECIRC

OWNER: TENNESSEE VALLEY AUTHORITY
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PLANT: BROWNS FERRY NUCLEAR PLANT
P.O. BOX 2000
DECATUR, ALABAMA 35602

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT 89E-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	RWR-3-002-G010	ISI-0328-C 02	B-F	B5.10	UT-45L	BF-72	19970301	R-207	P	ND2@120 RECIRC
RPV	RWR-3-002-G010	ISI-0328-C 02	B-F	B5.10	UT-45L	BF-70	19970301	R-207	P	ND2@120 RECIRC
RPV	RWR-3-003-G001	ISI-0411-C 01	B-F	B5.10	PT		19970228	R-192	P	N8A@105 JET PUMP
RPV	RWR-3-003-G001	ISI-0411-C 01	B-F	B5.10	UT-45	BF-76	19970228	R-188	P	N8A@105 JET PUMP
RPV	RWR-3-003-G001	ISI-0411-C 01	B-F	B5.10	UT-45	BF-59	19970228	R-188	P	N8A@105 JET PUMP
RPV	RWR-3-003-G001	ISI-0411-C 01	B-F	B5.10	UT-45	BF-59	19970228	R-188	P	N8A@105 JET PUMP
RPV	RWR-3-003-G001	ISI-0411-C 01	B-F	B5.10	UT-45L	BF-59	19970228	R-188	P	N8A@105 JET PUMP
RPV	RWR-3-003-G001	ISI-0411-C 01	B-F	B5.10	UT-45L	BF-76	19970228	R-188	P	N8A@105 JET PUMP
RPV	RPV-NUTS-3-01	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-02	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-03	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-04	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-05	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-06	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-07	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-08	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-09	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-10	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-11	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-12	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-13	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-14	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-15	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-16	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-17	ISI-0267-C 01	B-G-1	B6.10	MT		19970225	R-144	P	



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

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

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT 89E-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	RPV-NUTS-3-18	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-19	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-20	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-21	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-22	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-23	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-24	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-25	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-26	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-27	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-28	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-29	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-NUTS-3-30	ISI-0267-C 01	B-G-1	B8.10	MT		19970225	R-144	P	
RPV	RPV-STUDS-3-01	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-02	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-03	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-04	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-05	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-06	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-07	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-08	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-09	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-10	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-11	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-12	ISI-0267-C 01	B-G-1	B8.20	UT-0	BF-126	19970308	R-250	P	

OWNER: TENNESSEE VALLEY AUTHORITY
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PLANT: BROWNS FERRY NUCLEAR PLANT
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DECATUR, ALABAMA 35602

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT 89E-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	RPV-STUDS-3-13	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-14	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-15	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-16	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-17	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-18	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-19	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-20	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-21	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-26	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-27	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-28	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-29	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-30	ISI-0267-C 01	B-G-1	B6.20	UT-0	BF-126	19970308	R-250	P	
RPV	RPV-STUDS-3-22	ISI-0267-C 01	B-G-1	B6.30	UT-0	BF-126	19970308	R-242	P	
RPV	RPV-STUDS-3-23	ISI-0267-C 01	B-G-1	B6.30	UT-0	BF-126	19970308	R-242	P	
RPV	RPV-STUDS-3-24	ISI-0267-C 01	B-G-1	B6.30	UT-0	BF-126	19970308	R-242	P	
RPV	RPV-STUDS-3-25	ISI-0267-C 01	B-G-1	B6.30	UT-0	BF-126	19970308	R-242	P	
RPV	RPV-LIGS-3-01	ISI-0267-C 01	B-G-1	B6.40	UT-0	BF-126	19970308	R-252	P	
RPV	RPV-LIGS-3-02	ISI-0267-C 01	B-G-1	B6.40	UT-0	BF-126	19970308	R-252	P	
RPV	RPV-LIGS-3-03	ISI-0267-C 01	B-G-1	B6.40	UT-0	BF-126	19970308	R-252	P	
RPV	RPV-LIGS-3-04	ISI-0267-C 01	B-G-1	B6.40	UT-0	BF-126	19970308	R-252	P	
RPV	RPV-LIGS-3-05	ISI-0267-C 01	B-G-1	B6.40	UT-0	BF-126	19970308	R-252	P	
RPV	RPV-LIGS-3-06	ISI-0267-C 01	B-G-1	B6.40	UT-0	BF-126	19970308	R-252	P	
RPV	RPV-LIGS-3-07	ISI-0267-C 01	B-G-1	B6.40	UT-0	BF-126	19970308	R-252	P	



OWNER: TENNESSEE VALLEY AUTHORITY
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PLANT: BROWNS FERRY NUCLEAR PLANT
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DECATUR, ALABAMA 35602

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT 89E-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	RPV-LIGS-3-08	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-09	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-10	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-11	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-12	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-13	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-14	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-15	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-16	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-17	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-18	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-19	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-20	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-21	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-22	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-23	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-24	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-25	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-26	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-27	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-28	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-29	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-LIGS-3-30	ISI-0287-C 01	B-G-1	B8.40	UT-0	BF-128	19970308	R-252	P	
RPV	RPV-BUSH-3-01	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-02	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970308	R-251	P	

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

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

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT 89E-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	RPV-BUSH-3-03	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-04	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-05	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-06	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-07	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-08	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-09	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-10	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-11	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-12	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-13	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-14	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-15	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-16	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-17	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-18	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-19	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-20	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-21	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-22	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-253	P	
RPV	RPV-BUSH-3-23	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-253	P	
RPV	RPV-BUSH-3-24	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-253	P	
RPV	RPV-BUSH-3-25	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-253	P	
RPV	RPV-BUSH-3-26	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-27	ISI-0267-C 01	B-G-1	B6.50	VT-1		19970308	R-251	P	



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

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT 89E-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	RPV-BUSH-3-28	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-29	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970308	R-251	P	
RPV	RPV-BUSH-3-30	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970308	R-251	P	
RPV	RPV-WASH-3-01	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-02	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-03	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-04	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-05	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-06	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-07	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-08	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-09	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-10	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-11	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-12	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-13	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-14	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-15	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-16	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-17	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-18	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-19	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-20	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-21	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-22	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	



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PLANT: BROWNS FERRY NUCLEAR PLANT
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DECATUR, ALABAMA 35602

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT 89E-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	RPV-WASH-3-23	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-24	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-25	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-26	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-27	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-28	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-29	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
RPV	RPV-WASH-3-30	ISI-0287-C 01	B-G-1	B8.50	VT-1		19970225	R-134	P	
MSS	MSBC-3-01	ISI-0313-B 01	B-G-2	B7.50	VT-1		19970224	R-102	P	AZ ~ 92
MSS	MSBC-3-03	ISI-0313-B 01	B-G-2	B7.50	VT-1		19970224	R-101	P	AZ ~ 122
MSS	MSBC-3-05	ISI-0313-B 01	B-G-2	B7.50	VT-1		19970224	R-103	P	AZ ~ 92
CSS	FCV-75-53	ISI-0331-C 01	B-G-2	B7.70	VT-1		19970226	R-131	P	
MSS	FCV-1-051-BC	ISI-0329-C 01	B-G-2	B7.70	VT-1		19970227	R-152	P	VLV TO BONNET
MSS	PCV-1-04	ISI-0313-B 01	B-G-2	B7.70	VT-1		19970309	R-258	P	SN59-1079
MSS	PCV-1-31	ISI-0313-B 01	B-G-2	B7.70	VT-1		19961216	R-138	P	S/N 68-1075, VLV-BDY BOLTS
MSS	PCV-1-31	ISI-0313-B 01	B-G-2	B7.70	VT-1		19970225	R-140	P	SN 68-1075, INLET BOLTS
RHRS	FCV74-88	ISI-0330-C 01	B-G-2	B7.70	VT-1		19970226	R-150	D	NOI#U3C7-003, REF R-180
FWS	GFW-3-01	ISI-0327-C 01	B-J	B9.11	MT		19970301	R-196	P	
FWS	GFW-3-01	ISI-0327-C 01	B-J	B9.11	UT-45	BF-108	19970302	R-222	P	
FWS	GFW-3-01	ISI-0327-C 01	B-J	B9.11	UT-60	BF-108	19970302	R-222	P	
FWS	GFW-3-10	ISI-0327-C 01	B-J	B9.11	MT		19970301	R-195	P	
FWS	GFW-3-10	ISI-0327-C 01	B-J	B9.11	UT-45	BF-75	19970301	R-225	P	
FWS	GFW-3-10	ISI-0327-C 01	B-J	B9.11	UT-80	BF-75	19970301	R-225	P	
FWS	KFW-3-03	ISI-0327-C 01	B-J	B9.11	MT		19970302	R-214	P	
FWS	KFW-3-03	ISI-0327-C 01	B-J	B9.11	UT-45	BF-94	19970304	R-231	P	



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PLANT: BROWNS FERRY NUCLEAR PLANT
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DECATUR, ALABAMA 35602

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT 89E-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
FWS	KFW-3-15	ISI-0327-C 01	B-J	B9.11	MT		19970301	R-205	P	
FWS	KFW-3-15	ISI-0327-C 01	B-J	B9.11	UT-45	BF-75	19970301	R-224	P	
FWS	KFW-3-15	ISI-0327-C 01	B-J	B9.11	UT-60	BF-75	19970301	R-224	P	SUPP EXAM
FWS	KFW-3-48	ISI-0327-C 01	B-J	B9.11	MT		19970302	R-212	P	
FWS	KFW-3-48	ISI-0327-C 01	B-J	B9.11	UT-45	BF-102	19970303	R-226	P	
HPCIS	THPCI-3-069	ISI-0333-C 01	B-J	B9.11	MT		19970225	R-127	P	
HPCIS	THPCI-3-069	ISI-0333-C 01	B-J	B9.11	UT-45	BF-42	19970226	R-158	P	
MSS	GMS-3-04	ISI-0329-C 01	B-J	B9.11	MT		19970226	R-135	P	
MSS	GMS-3-04	ISI-0329-C 01	B-J	B9.11	UT-45	BF-108	19970226	R-162	P	
MSS	GMS-3-09	ISI-0329-C 02	B-J	B9.11	MT		19970302	R-215	P	
MSS	GMS-3-09	ISI-0329-C 02	B-J	B9.11	UT-45	BF-108	19970302	R-220	P	
MSS	GMS-3-09	ISI-0329-C 02	B-J	B9.11	UT-60	BF-108	19970302	R-220	P	
MSS	GMS-3-09	ISI-0329-C 02	B-J	B9.11	UT-70	BF-108	19970302	R-220	P	
MSS	GMS-3-30	ISI-0329-C 01	B-J	B9.11	MT		19970226	R-146	P	
MSS	GMS-3-30	ISI-0329-C 01	B-J	B9.11	UT-45	BF-108	19970226	R-164	P	
MSS	GMS-3-30	ISI-0329-C 01	B-J	B9.11	UT-60	BF-108	19970226	R-164	P	
MSS	KMS-3-038	ISI-0329-C 02	B-J	B9.11	MT		19970227	R-178	P	
MSS	KMS-3-038	ISI-0329-C 02	B-J	B9.11	UT-45	BF-108	19970228	R-190	P	
MSS	KMS-3-055	ISI-0329-C 02	B-J	B9.11	MT		19970302	R-206	P	
MSS	KMS-3-055	ISI-0329-C 02	B-J	B9.11	UT-45	BF-108	19970302	R-221	P	
MSS	KMS-3-090	ISI-0329-C 01	B-J	B9.11	MT		19970225	R-118	P	
MSS	KMS-3-090	ISI-0329-C 01	B-J	B9.11	UT-45	BF-30	19970228	R-200	P	
MSS	KMS-3-091	ISI-0329-C 01	B-J	B9.11	MT		19970225	R-117	P	
MSS	KMS-3-091	ISI-0329-C 01	B-J	B9.11	UT-45	BF-30	19970228	R-198	P	
MSS	KMS-3-093	ISI-0329-C 01	B-J	B9.11	MT		19970225	R-120	P	



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MSS	KMS-3-093	ISI-0329-C 01	B-J	B9.11	UT-45	BF-30	19970228	R-201	P	
MSS	KMS-3-094	ISI-0329-C 01	B-J	B9.11	MT		19970225	R-119	P	
MSS	KMS-3-094	ISI-0329-C 01	B-J	B9.11	UT-45	BF-30	19970228	R-199	P	
RECIR	RWR-3-001-G017	ISI-0328-C 01	B-J	B9.11	PT		19970227	R-171	P	
RECIR	RWR-3-001-G017	ISI-0328-C 01	B-J	B9.11	UT-45	BF-79	19970227	R-187	P	
RECIR	RWR-3-001-G017	ISI-0328-C 01	B-J	B9.11	UT-60	BF-79	19970227	R-187	P	SUPP EXAM
RECIR	RWR-3-001-G020	ISI-0328-C 01	B-J	B9.11	PT		19970227	R-172	P	
RECIR	RWR-3-001-G020	ISI-0328-C 01	B-J	B9.11	UT-45	BF-79	19970227	R-188	P	
RECIR	RWR-3-001-G020	ISI-0328-C 01	B-J	B9.11	UT-60	BF-79	19970227	R-188	P	SUPP EXAM
RECIR	RWR-3-002-G008	ISI-0328-C 02	B-J	B9.11	PT		19970227	R-174	P	
RECIR	RWR-3-002-G008	ISI-0328-C 02	B-J	B9.11	UT-45	BF-79	19970228	R-189	P	
RECIR	RWR-3-002-G012	ISI-0328-C 02	B-J	B9.11	PT		19970227	R-175	P	
RECIR	RWR-3-002-G012	ISI-0328-C 02	B-J	B9.11	UT-45	BF-79	19970301	R-208	P	
RWCUS	DRWC-3-60	ISI-0332-C 02	B-J	B9.11	MT		19970223	R-099	P	
RWCUS	DRWC-3-60	ISI-0332-C 02	B-J	B9.11	UT-45	BF-35	19970228	R-159	P	
RWCUS	RWCU-3-001-G020	ISI-0332-C 01	B-J	B9.11	PT		19970228	R-133	P	
RWCUS	RWCU-3-001-G020	ISI-0332-C 01	B-J	B9.11	UT-45	BF-31	19970228	R-147	P	
RWCUS	RWCU-3-001-G020	ISI-0332-C 01	B-J	B9.11	UT-60L	BF-31	19970228	R-147	P	
MSS	KMS-3-089	ISI-0329-C 01	B-J	B9.31	MT		19970225	R-116	P	
MSS	KMS-3-089	ISI-0329-C 01	B-J	B9.31	UT-45	BF-108	19970301	R-204	P	
MSS	KMS-3-092	ISI-0329-C 01	B-J	B9.31	MT		19970225	R-121	P	
MSS	KMS-3-092	ISI-0329-C 01	B-J	B9.31	UT-45	BF-108	19970301	R-203	P	
CSS	3-47B458-568-1A	ISI-0339-C 01	B-K-1	B10.10	PT		19970301	R-193	E	REF. R-202 FOR SAT PT EXAM
CSS	3-47B458-568-1A	ISI-0339-C 01	B-K-1	B10.10	PT		19970302	R-202	P	NOI U3C7004 REF R-193
CSS	3-47B458-567-1A	ISI-0339-C 01	B-K-1	B10.10	MT		19970224	R-108	P	



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EXAM REQUIREMENT 89E-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
CSS	3-47B458-568-1A	ISI-0339-C 01	B-K-1	B10.10	MT		19970224	R-107	P	
MSS	3-47B400-115-1A	ISI-0338-C 02	B-K-1	B10.10	MT		19970228	R-161	P	
MSS	3-47B400-116-1A	ISI-0338-C 02	B-K-1	B10.10	MT		19970228	R-160	P	
RECIR	3-47B465-472-1A	ISI-0337-C 02	B-K-1	B10.10	PT		19970227	R-156	P	
RECIR	3-47B465-473-1A	ISI-0337-C 02	B-K-1	B10.10	PT		19970227	R-155	P	
RECIR	3-47B465-474-1A	ISI-0337-C 02	B-K-1	B10.10	PT		19970227	R-157	P	
RECIR	3-47B465-480-1A	ISI-0337-C 02	B-K-1	B10.10	PT		19970227	R-154	P	
RHRS	3-47B452-3047-1A	ISI-0340-C 01	B-K-1	B10.10	PT		19970224	R-110	P	
FWS	3-47B415-44-1A	ISI-0336-C 01	B-K-1	B10.30	MT		19970228	R-197	P	
CSS	FCV-75-53	ISI-0331-C 01	B-M-2	B12.50	VT-3		19970226	R-130	P	BFPER950808
HPCIS	FCV-73-03	ISI-0333-C 01	B-M-2	B12.50	VT-3		19970305	R-234	P	
HPCIS	FCV-73-45	ISI-0333-C 01	B-M-2	B12.50	VT-3		19970304	R-230	P	
MSS	FCV-1-051	ISI-0329-C 01	B-M-2	B12.50	VT-3		19970227	R-166	P	
MSS	PCV-1-04	ISI-0313-B 01	B-M-2	B12.50	VT-3		19970309	R-259	P	S/N 59-1079
MSS	PCV-1-31	ISI-0313-B 01	B-M-2	B12.50	VT-3		19970313	R-269	P	SN# 72-1072
RCICS	FCV-71-40	ISI-0332-C 02	B-M-2	B12.50	VT-3		19970303	R-217	P	
RHRS	FCV74-68	ISI-0330-C 01	B-M-2	B12.50	VT-3		19970226	R-148	E	NOI#U3C7-002
RWCUS	FCV-69-02	ISI-0332-C 01	B-M-2	B12.50	VT-3		19970301	R-184	P	
RHRS	RHRG-3-07-B	ISI-0422-C 01	C-A	C1.10	UT-45	BF-28	19970114	R-038	P	
RHRS	3-47B452-1383-1A	ISI-0395-C 07	C-C	C3.20	MT		19970117	R-050	P	
RHRS	3-47B452-1384-1A	ISI-0395-C 07	C-C	C3.20	MT		19970129	R-054	E	NOI U3C7-001 REF. R-149
RHRS	3-47B452-1384-1A	ISI-0395-C 07	C-C	C3.20	MT		19970226	R-149	P	REF. R-054 & NOI U3C7-001
RHRS	3-47B452-1385-1A	ISI-0395-C 07	C-C	C3.20	MT		19970117	R-048	P	REF. RFR 3-ISI-4
RHRS	3-47B452-1389-1A	ISI-0395-C 07	C-C	C3.20	MT		19970117	R-049	P	
RHRS	3-47B452-1400-1A	ISI-0395-C 02	C-C	C3.20	MT		19961210	R-007	P	



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System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RHRS	3-47B452-1444-IA	ISI-0395-C 05	C-C	C3.20	MT		19970117	R-047	P	
RHRS	3-47B452-1451-IA	ISI-0395-C 09	C-C	C3.20	MT		19961211	R-018	P	REF. RFR 3-ISI-4
RHRS	3-47B452-1543-IA	ISI-0395-C 08	C-C	C3.20	MT		19961210	R-012	P	
RHRS	3-47B452-1545-IA	ISI-0395-C 08	C-C	C3.20	MT		19961211	R-017	P	
RHRS	RHR-3-H-148-IA	ISI-0395-C 12	C-C	C3.20	MT		19961210	R-013	P	REF. RFR 3-ISI-4
CSS	TCS-3-206	ISI-0102-C 01	C-F-1	C5.11	PT		19970109	R-037	P	
CSS	TCS-3-206	ISI-0102-C 01	C-F-1	C5.11	UT-45	BF-79	19970110	R-039	P	
CSS	TCS-3-207	ISI-0102-C 01	C-F-1	C5.11	PT		19970109	R-038	P	
CSS	TCS-3-207	ISI-0102-C 01	C-F-1	C5.11	UT-45	BF-79	19970110	R-040	P	
CSS	TCS-3-207	ISI-0102-C 01	C-F-1	C5.11	UT-60L	BF-79	19970110	R-040	P	
CRDS	TCRD-3-013	ISI-0143-C 01	C-F-2	C5.51	MT		19970214	R-091	P	
CRDS	TCRD-3-013	ISI-0143-C 01	C-F-2	C5.51	UT-45	BF-34	19970217	R-093	P	
CRDS	TCRD-3-030	ISI-0143-C 02	C-F-2	C5.51	MT		19970214	R-092	P	
CRDS	TCRD-3-030	ISI-0143-C 02	C-F-2	C5.51	UT-45	BF-34	19970217	R-094	P	
CRDS	TCRD-3-030	ISI-0143-C 02	C-F-2	C5.51	UT-60	BF-34	19970217	R-094	P	SUPP EXAM
CSS	TCS-3-008	ISI-0102-C 02	C-F-2	C5.51	MT		19961219	R-027	P	
CSS	TCS-3-008	ISI-0102-C 02	C-F-2	C5.51	UT-45	BF-77	19961230	R-030	P	
CSS	TCS-3-014C	ISI-0102-C 02	C-F-2	C5.51	MT		19970102	R-032	P	
CSS	TCS-3-014C	ISI-0102-C 02	C-F-2	C5.51	UT-45	BF-77	19970102	R-031	P	
CSS	TCS-3-044	ISI-0102-C 02	C-F-2	C5.51	MT		19961219	R-028	P	
CSS	TCS-3-044	ISI-0102-C 02	C-F-2	C5.51	UT-45	BF-127	19970103	R-034	P	
CSS	TCS-3-044	ISI-0102-C 02	C-F-2	C5.51	UT-60	BF-127	19970103	R-034	P	SUPP EXAM
CSS	TCS-3-059	ISI-0102-C 02	C-F-2	C5.51	MT		19961219	R-029	P	
CSS	TCS-3-059	ISI-0102-C 02	C-F-2	C5.51	UT-45	BF-127	19970102	R-033	P	
CSS	TCS-3-059	ISI-0102-C 02	C-F-2	C5.51	UT-60	BF-127	19970102	R-033	P	SUPP EXAM

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System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
HPCIS	THPCI-3-016	CHM-2407-C 02	C-F-2	C5.51	MT		19970224	R-109	P	
HPCIS	THPCI-3-016	CHM-2407-C 02	C-F-2	C5.51	UT-45	BF-56	19970224	R-165	P	
HPCIS	THPCI-3-016	CHM-2407-C 02	C-F-2	C5.51	UT-60	BF-56	19970224	R-165	P	
HPCIS	THPCI-3-087	CHM-2407-C 03	C-F-2	C5.51	MT		19970223	R-104	P	
HPCIS	THPCI-3-087	CHM-2407-C 03	C-F-2	C5.51	UT-45	BF-05	19970223	R-106	P	
HPCIS	THPCI-3-087	CHM-2407-C 03	C-F-2	C5.51	UT-60	BF-05	19970223	R-106	P	
HPCIS	THPCI-3-097	CHM-2407-C 02	C-F-2	C5.51	MT		19970223	R-100	P	
HPCIS	THPCI-3-097	CHM-2407-C 02	C-F-2	C5.51	UT-45	BF-05	19970223	R-163	P	
HPCIS	THPCI-3-097	CHM-2407-C 02	C-F-2	C5.51	UT-60	BF-05	19970223	R-163	P	
MSS	DMS-3-09	ISI-0354-C 01	C-F-2	C5.51	MT		19970227	R-153	P	
MSS	DMS-3-09	ISI-0354-C 01	C-F-2	C5.51	UT-45	BF-108	19970228	R-194	P	
MSS	DMS-3-09	ISI-0354-C 01	C-F-2	C5.51	UT-60	BF-108	19970228	R-194	P	
MSS	DSAS-3-03	ISI-0354-C 02	C-F-2	C5.51	MT		19970301	R-210	P	
MSS	DSAS-3-03	ISI-0354-C 02	C-F-2	C5.51	UT-45	BF-34	19970301	R-211	P	
MSS	DSMS-3-15	ISI-0354-C 01	C-F-2	C5.51	MT		19970301	R-209	P	
MSS	DSMS-3-15	ISI-0354-C 01	C-F-2	C5.51	UT-45	BF-108	19970302	R-218	P	
MSS	DSMS-3-15	ISI-0354-C 01	C-F-2	C5.51	UT-60	BF-108	19970302	R-218	P	
RCICS	TRCIC-3-045	CHM-2408-C 01	C-F-2	C5.51	MT		19970128	R-056	P	
RCICS	TRCIC-3-045	CHM-2408-C 01	C-F-2	C5.51	UT-45	BF-91	19970131	R-082	P	
RCICS	TRCIC-3-045	CHM-2408-C 01	C-F-2	C5.51	UT-60	BF-91	19970131	R-082	P	SUPP EXAM
RHRS	TRHR-3-037	ISI-0393-C 11	C-F-2	C5.51	MT		19970114	R-041	P	
RHRS	TRHR-3-037	ISI-0393-C 11	C-F-2	C5.51	UT-45	BF-96	19970127	R-055	P	
RHRS	TRHR-3-039A	ISI-0393-C 11	C-F-2	C5.51	MT		19970114	R-042	P	
RHRS	TRHR-3-039A	ISI-0393-C 11	C-F-2	C5.51	UT-45	BF-101	19970123	R-057	P	
RHRS	TRHR-3-039A	ISI-0393-C 11	C-F-2	C5.51	UT-60	BF-101	19970123	R-057	P	SUPP EXAM

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RHRS	TRHR-3-067	ISI-0393-C 11	C-F-2	C5.51	MT		19970114	R-043	P	
RHRS	TRHR-3-067	ISI-0393-C 11	C-F-2	C5.51	UT-45	BF-101	19970123	R-058	P	
RHRS	TRHR-3-067	ISI-0393-C 11	C-F-2	C5.51	UT-80	BF-101	19970123	R-058	P	SUPP EXAM
RHRS	TRHR-3-104	ISI-0393-C 10	C-F-2	C5.51	MT		19961209	R-009	P	
RHRS	TRHR-3-104	ISI-0393-C 10	C-F-2	C5.51	UT-45	BF-98	19961212	R-023	P	
RHRS	TRHR-3-183C	ISI-0393-C 08	C-F-2	C5.51	MT		19961210	R-014	P	
RHRS	TRHR-3-183C	ISI-0393-C 08	C-F-2	C5.51	UT-45	BF-98	19961213	R-022	P	
RHRS	TRHR-3-197	ISI-0393-C 04	C-F-2	C5.51	MT		19970220	R-098	P	
RHRS	TRHR-3-197	ISI-0393-C 04	C-F-2	C5.51	UT-45	BF-128	19970220	R-098	P	
RHRS	TRHR-3-197	ISI-0393-C 04	C-F-2	C5.51	UT-80	BF-128	19970220	R-098	P	SUPP EXAM
RHRS	TRHR-3-197	ISI-0393-C 04	C-F-2	C5.51	UT-70	BF-128	19970221	R-098	P	SUPP EXAM
RHRS	TRHR-3-239	ISI-0393-C 02	C-F-2	C5.51	MT		19961209	R-008	P	
RHRS	TRHR-3-239	ISI-0393-C 02	C-F-2	C5.51	UT-45	BF-128	19961212	R-025	P	
RHRS	TRHR-3-253	ISI-0393-C 02	C-F-2	C5.51	MT		19961209	R-005	P	
RHRS	TRHR-3-253	ISI-0393-C 02	C-F-2	C5.51	UT-45	BF-77	19961212	R-024	P	
RHRS	TRHR-3-320	ISI-0393-C 09	C-F-2	C5.51	MT		19961209	R-004	P	
RHRS	TRHR-3-320	ISI-0393-C 09	C-F-2	C5.51	UT-45	BF-98	19961213	R-028	P	
RHRS	TRHR-3-320	ISI-0393-C 09	C-F-2	C5.51	UT-80	BF-95	19961213	R-028	P	SUPP EXAM
RHRS	TRHR-3-333	ISI-0393-C 09	C-F-2	C5.51	MT		19961211	R-018	P	
RHRS	TRHR-3-333	ISI-0393-C 09	C-F-2	C5.51	UT-45	BF-98	19961212	R-021	P	
RHRS	TRHR-3-348	ISI-0393-C 09	C-F-2	C5.51	MT		19961209	R-008	P	
RHRS	TRHR-3-348	ISI-0393-C 09	C-F-2	C5.51	UT-45	BF-98	19961209	R-015	P	
RHRS	TRHR-3-348	ISI-0393-C 09	C-F-2	C5.51	UT-80	BF-98	19961210	R-015	P	SUPP EXAM
RHRS	TRHR-3-348	ISI-0393-C 09	C-F-2	C5.51	UT-70	BF-98	19961210	R-015	P	SUPP EXAM
RHRS	TRHR-3-370A	ISI-0393-C 07	C-F-2	C5.51	MT		19970109	R-035	P	



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RHRS	TRHR-3-370A	ISI-0393-C 07	C-F-2	C5.51	UT-45	BF-98	19970118	R-045	P	
RHRS	TRHR-3-374	ISI-0393-C 07	C-F-2	C5.51	MT		19970121	R-052	P	
RHRS	TRHR-3-374	ISI-0393-C 07	C-F-2	C5.51	UT-45	BF-98	19970122	R-053	P	
RHRSW	3-47B450-258-1A	CHM-2416-C 02	D-B	D2.20	VT-3		19970212	R-085	P	
RHRSW	3-47B450-300-1A	CHM-2416-C 03	D-B	D2.20	VT-3		19970212	R-086	P	
RHRSW	3-47B450-302-1A	CHM-2416-C 03	D-B	D2.20	VT-3		19970211	R-088	P	
RHRSW	3-47B450-317-1A	CHM-2416-C 03	D-B	D2.20	VT-3		19970210	R-075	P	
RHRSW	3-47B450-348-1A	CHM-2416-C 02	D-B	D2.20	VT-3		19970211	R-084	P	
RHRSW	3-47B450-355-1A	CHM-2416-C 03	D-B	D2.20	VT-3		19970211	R-085	P	
RHRSW	3-47B450-382-1A	CHM-2416-C 02	D-B	D2.20	VT-3		19970210	R-073	P	
RHRSW	3-47B450-389-1A	CHM-2416-C 03	D-B	D2.20	VT-3		19970211	R-086	P	
RHRSW	3-47B450-255-1A	CHM-2416-C 02	D-B	D2.40	VT-3		19970210	R-072	P	
RHRSW	3-47B450-267-1A	CHM-2416-C 02	D-B	D2.40	VT-3		19970211	R-087	P	
RHRSW	3-47B450-268-1A	CHM-2416-C 02	D-B	D2.40	VT-3		19970210	R-079	P	
RHRSW	3-47B450-279-1A	CHM-2416-C 02	D-B	D2.40	VT-3		19970211	R-088	P	
RHRSW	3-47B450-288-1A	CHM-2416-C 03	D-B	D2.40	VT-3		19970210	R-076	P	
RHRSW	3-47B450-309-1A	CHM-2416-C 03	D-B	D2.40	VT-3		19970210	R-080	P	
RHRSW	3-47B450-310-1A	CHM-2416-C 03	D-B	D2.40	VT-3		19970210	R-077	P	
RHRSW	3-47B450-312-1A	CHM-2416-C 03	D-B	D2.40	VT-3		19970210	R-078	P	
FPCS	3-47B454-529-1A	CHM-2429-C 02	D-C	D3.20	VT-3		19970210	R-070	P	
FWS	3-47B415-34	ISI-0338-C 01	F-A	F1.10B	VT-3		19970224	R-114	P	
FWS	3-47B415-37	ISI-0338-C 01	F-A	F1.10C	VT-3		19970224	R-112	P	
FWS	3-47B415-39	ISI-0338-C 01	F-A	F1.10C	VT-3		19970224	R-113	P	
MSS	3-47B400-085	ISI-0338-C 01	F-A	F1.10C	VT-3		19970228	R-227	P	
MSS	3-47B400-099	ISI-0338-C 02	F-A	F1.10C	VT-3		19970225	R-124	P	



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MSS	3-47B400-120	ISI-0338-C 02	F-A	F1.10C	VT-3		19970225	R-123	P	
MSS	3-47B400-115	ISI-0338-C 02	F-A	F1.10D	VT-3		19970225	R-125	P	
MSS	3-47B400-116	ISI-0338-C 02	F-A	F1.10D	VT-3		19970225	R-126	P	
RHRS	3-47B452-1406	ISI-0395-C 02	F-A	F1.20A	VT-3		19961213	R-020	P	
RHRS	3-47B452-1416	ISI-0395-C 03	F-A	F1.20A	VT-3		19961209	R-010	P	
RHRS	3-47B452-1433	ISI-0395-C 05	F-A	F1.20A	VT-3		19970117	R-046	P	
RHRS	3-47B452-1534	ISI-0395-C 03	F-A	F1.20A	VT-3		19961209	R-011	P	
RHRS	3-47B452-1543	ISI-0395-C 08	F-A	F1.20A	VT-3		19961210	R-002	P	
RHRS	3-47B452-1384	ISI-0395-C 07	F-A	F1.20C	VT-3		19970121	R-051	P	
RHRS	3-47B452-1400	ISI-0395-C 02	F-A	F1.20C	VT-3		19961209	R-019	P	
RHRS	3-47B452-1422	ISI-0395-C 04	F-A	F1.20C	VT-3		19970217	R-095	P	
RHRS	RHR-3-H-008	ISI-0395-C 10	F-A	F1.20C	VT-3		19961209	R-001	P	
RHRS	RHR-3-H-029	ISI-0395-C 11	F-A	F1.20C	VT-3		19970115	R-044	P	
RHRS	RHR-3-H-146	ISI-0395-C 12	F-A	F1.20C	VT-3		19961210	R-003	P	
RHRSW	3-17B300-289	CHM-2416-C 01	F-A	F1.30A	VT-3		19970203	R-062	P	
RHRSW	3-47B450-251	CHM-2416-C 02	F-A	F1.30A	VT-3		19970206	R-060	P	
RHRSW	3-47B450-267	CHM-2416-C 02	F-A	F1.30A	VT-3		19970205	R-059	P	
RHRSW	3-47B450-316	CHM-2416-C 03	F-A	F1.30A	VT-3		19970206	R-063	P	
FPCS	3-47B454-529	CHM-2429-C 02	F-A	F1.30B	VT-3		19970210	R-071	P	
RHRSW	3-17B300-283	CHM-2416-C 01	F-A	F1.30B	VT-3		19970203	R-061	P	
RHRSW	3-47B450-258	CHM-2416-C 02	F-A	F1.30B	VT-3		19970211	R-069	P	
RHRSW	3-47B450-300	CHM-2416-C 03	F-A	F1.30B	VT-3		19970210	R-074	P	
RHRSW	3-47B450-302	CHM-2416-C 03	F-A	F1.30B	VT-3		19970211	R-087	P	
RHRSW	3-47B450-309	CHM-2416-C 03	F-A	F1.30C	VT-3		19970210	R-081	P	



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COMMERCIAL SERVICE DATE: MARCH 1, 1977

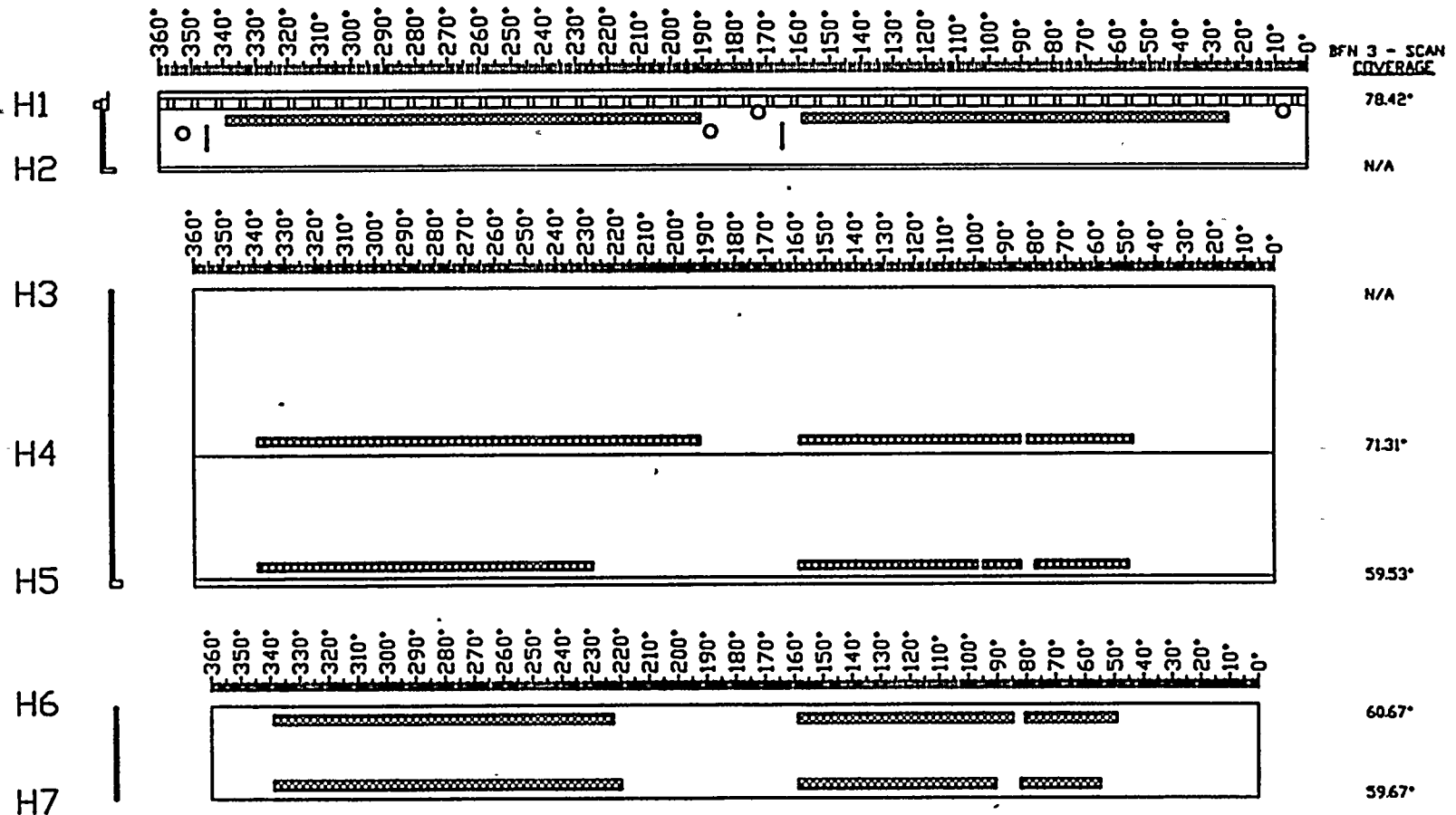
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

APPENDIX II

SUMMARY OF INDICATIONS

BROWNS FERRY UNIT 3 SHROUD INSPECTION

HATCHED AREAS REPRESENT AREAS SCANNED



Page 1 of 1



NOTE: THIS SKETCH IS FOR ISI PROGRAM USE ONLY AND SHALL NOT BE USED FOR FABRICATION/INSTALLATION.

DE DWG NO.
N/A

PROJECT
BFN-3

TITLE
SHROUD UT SCAN COVERAGE

SHEET NO.
SCANCOV

AC12-SCANCOV.DWG

BROWNS FERRY NUCLEAR U3C7

Ultrasonic Examination of the RPV Core Spray Piping

Commencing February 26, 1997 GE Nuclear Energy performed an ultrasonic examination of the core spray piping internal to the RPV at the TVA, Browns Ferry Nuclear Unit 3. The examinations were performed utilizing GE's CSI-2000 examination system. The CSI 2000 examination system is a computer controlled multi-axis robotic inspection tool that is delivered to the inspection areas by a remote operated vehicle (ROV).

The examination scope included the P4a, P4b, P4c, P5, P6, P7, P8a, and P8b weldments of all 4 core spray downcomer lines (32 total exams). Analysis of the ultrasonic data from the inspection concluded with the following findings:

Downcomer Elbow Examinations

Welds P4a, P4b, P4c, and P4d are welds associated with one of the two elbows in each piping run. The 1st elbow is used to turn the piping system vertically downward at the end of the horizontal header piping run (P4a, P4b). The second elbow is at the lower elevation of the downcomer piping run and is utilized to turn the piping towards the shroud penetrations (P4c, P4d). Weld P4d is inaccessible for examination with the CSI system.

Welds AP4a, BP4a, CP4a and DP4a were limited in examination coverage due to scanner interference with the reactor pressure vessel wall.

The examinations were performed as a one sided examination from the piping side of the configuration using 60° and 70° shear wave transducers. No reportable indications were found during the P4 weld examinations.

Downcomer Sleeve Examinations

Welds P5, P6, and P7 are welds associated with the coupler sleeve (slip joint) configuration of each downcomer piping run. This configuration consists of inner and outer sleeve components which are slip fitted between the upper and lower levels of the downcomer piping. This design utilizes fillet welds connecting the components.

The examinations were performed from both sides of each weld within this configuration using 60° and 70° shear wave transducers. No reportable indications were found during the P5, P6, and P7 weld examinations.

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Summary of Indications

Indications detected during the performance of examinations for Browns Ferry Nuclear Plant Unit 3 Cycle 7 were evaluated in accordance with approved written procedures. Generally, examination results yielded either No Recordable Indications (NRI) or Recordable Indications.

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

The following list is a summary of indications detected and their disposition during the Unit 3 Cycle 7 outage.

NOI #	CODE CATEGORY	COMPONENT IDENTIFICATION	INDICATION DESCRIPTION	RESOLUTION	REPORT #
U3C7001	C-C	3-47B452-1384-1A	Unacceptable surface condition for MT exam	Buffed weld to meet acceptable NDE and size requirements.	Report # R-054 and R-149
U3C7002	B-M-2	3-FCV-74-68	Gouge in valve internal surface	Accepted-as-is	Report # R-148
U3C7003	B-G-2	3-FCV-74-68	Gouges in valve bolting material (nuts and studs)	Replaced bolting. Bolting damaged by assembly / disassembly process	Report # R-150 and R-180
U3C7004	B-K-1	3-47B458-566-1A	Rounded PT indication	Removed indication by cosmetic buffing only.	Report # R-193 and R-202

ADDITIONAL SAMPLES

No additional examinations were required in the Unit 3 Cycle 7 refueling outage.



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APPENDIX III

UNIT 3 CYCLE 7 AUGMENTED EXAMINATION SUMMARY

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

This section includes augmented examinations performed to comply with NRC or TVA self-imposed requirements. Typical sources include generic letters, IE Bulletins, Technical Specifications, vendor recommendations, and industry experience. The following summarizes the augmented examinations performed during the Unit 3 Cycle 7 outage and references the corresponding paragraph in 3-SI-4.6.G.

CRD REROUTE	7.11.2
IGSCC	7.11.3
IVVI	7.11.4
RV SHROUD	7.11.4
PIPE WHIP	7.11.6

CRD RETURN LINE REROUTE

Paragraph 7.11.2, The CRD Return Line Reroute augmented examination requirements are in accordance with NUREG-0619.

The welded connections joining the Rerouted CRD Return Line to the Reactor Water Clean-up system were examined for three consecutive refueling outages. Welds RCRD-3-03, RCRD-3-44 and RCRD-3-45 were ultrasonically examined in Cycle 4, Cycle 5, and Cycle 7 in accordance with NUREG-0619.

In accordance with NUREG-0619, Section 8.3, reporting is required within 6 months after an inspection has been performed. Welds RCRD-3-03, RCRD-3-44 and RCRD-3-45 had no rejectable indications. These examinations satisfy the requirements for NUREG-0619 and no further action is required. These welds in the future will be examined in accordance with normal inservice inspection schedules.

IGSCC

Paragraph 7.11.3 Augmented Examination of Austenitic Stainless Steel and Dissimilar Metal Welds Susceptible to IGSCC (Generic Letter 88-01 and NUREG-0313, Revision 2)

Austenitic stainless steel and dissimilar metal circumferential welds in piping four inches or larger in nominal pipe diameter which contain reactor coolant at temperatures above 200

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degrees F during power operation shall be examined. The IGSCC examination results are contained in Section 2 of this Appendix.

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

NUREG-0313 CATEGORY	TOTAL NUMBER OF WELDS	WELDS EXAMINED DURING U3/C7 Outage
A	67	5
B	N/A	N/A
C	84	0
D	2	0
E	9	9
F	N/A	N/A
G	2	2 (VT-2)

Examination Results Summary:

No new IGSCC flaws were detected. Previously detected flaws were sized and comparisons were made with data taken during prior cycles. Overlay weld, GR-3-59, Category E Recirculation System revealed growth in length and through-wall. Original flaw height was 0.2" and length was intermittent in 1992, present flaw height is 0.65" and length is continuous (reference report number R-183). Overlay weld GR-3-59, was evaluated and was acceptable in accordance with NUREG 0313.

IN VESSEL VISUAL INSPECTION (IVVI)

PARAGRAPH 7.11.4

General Electric Nuclear Energy performed in vessel visual inspections of the Browns Ferry Nuclear Plant Unit 3 reactor vessel internals. All examinations were augmented with no ASME Section XI Code credit. In vessel Visual Examination Summary Report is in Section 1 of this Appendix.

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COMMERCIAL SERVICE DATE: MARCH 1, 1977

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

ULTRASONIC EXAMINATION OF THE RPV SHROUD

PARAGRAPH 7.11.4

GE Nuclear Energy performed an ultrasonic examination of the Browns Ferry Nuclear Plant Unit 3 reactor vessel shroud. The reactor vessel shroud ultrasonic examination summary report is in Section 1 of this Appendix.

PIPE WHIP

PARAGRAPH 7.11.6

Additional ultrasonic examinations are performed each inspection interval on selected circumferential pipe welds in accordance with Technical Specification Surveillance Requirement 4.6.G. The ultrasonic examination results are contained in Section 2 of this Appendix.

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NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

APPENDIX III

SECTION 1.0

IVVI SUMMARY RPV SHROUD SUMMARY RPV CORE SPRAY PIPING SUMMARY



**BROWN'S FERRY NUCLEAR PLANT UNIT 3
CYCLE 7 FEB/MARCH 1997**

INVESSEL VISUAL EXAMINATION SUMMARY REPORT

INTRODUCTION

During the period of February 26, 1997 through March 8, 1997, General Electric Nuclear Energy personnel performed an Invesel Examination (IVVI) of the Brown's Ferry Nuclear Plant Unit 3 (BFNP-3) reactor pressure vessel (RPV) internals. The invessel examination was conducted in accordance with the requirements of TVA Brown's Ferry Procedure 2-SI-4.6 G and Work Order 97-001342-000. This section describes the procedures and techniques utilized, examination personnel, and the results of the examinations.

EXAMINATION PROCEDURES

The following General Electric procedure was used for the examination.

VT-BFN-202V1, Rev. 0 Invesel Inspection (IVVI) for BWR-4 Reactor Pressure Vessel Internals

A copy of that procedure is contained in section 3 of this report.

EXAMINATION PERSONNEL

The following list identifies the certification levels of the General Electric visual examination personnel who performed the IVVI.

Name	Visual/IVVI Examiner Level
J. Adam	Level II
J. Bertolucci	Level II
M. Clancy	Level II
J. Green	Level II
J. Kegel	Level II
B. Munn	Level II
A. Phillips	Level II
R. Whitaker	Level II
J. Briggs	Level III
D. Henry	Level III
M. Newsom	Level III

EXAMINATION TECHNIQUES

General

The examinations were performed using a remote RCS 2100 color camera and an ETV 1250 black -and- white camera, both CCTV equipment. Both cameras were used with straight lenses; however the color camera did have pan and tilt capability. Most of the examinations were performed using the RCS 2100. The ETV 1250 was used only for additional radiation tolerance, for reexaminations (to take advantage of





BROWN'S FERRY NUCLEAR PLANT UNIT 3
CYCLE 7 FEB/MARCH 1997

INVESSEL VISUAL EXAMINATION SUMMARY REPORT

differences in lighting and angle of view), and when an additional camera was needed for parallel path work. The examinations were performed using hand held techniques. The camera resolution standard used for examinations, performed using procedure VT-BFN-202V1. VT-1 and VT-3 examinations were performed using a resolution standard of a 1/32 inch black line on an 18% neutral gray background. MVT-1 examinations were performed using a resolution standard of a 1 mil diameter fine wire. EVT-1 examinations were performed using a resolution standard of a 1/2 mil fine wire. The resolution was verified for each series of component examinations, when equipment was changed, or at least every 12 hours during examinations, except for "information" examinations as identified in the Tape Log.

EXAMINATION RESULTS

The examination results presented in this section discuss the evaluation of indications found during the examinations. The results of the examinations and VIDS digital photographs from the video tapes of these examinations are included in this report.

Relevant Indications

1. Two small linear indications were observed on the Downcomer C elbow in the heat-affected zone of Weld P4d. Note that the weld numbering system used is in accordance with BWRVIP-18 (EPRI Report EPRI TR-106740, July 1996) The indications were located at approximately the 2:00 position on the weld (clockwise around the weld as if looking into the core from the outside of the shroud). The indications were estimated as 1/4 inch and 1/2 inch long, separated by a distance of 1/8 inch. The separation of the two indications at the toe of the weld is estimated as at least 3/8 inch. The estimate was based only on relative magnifications and viewing of the resolution standard (which is subject to some error).
2. A linear indication was observed on one of two tack welds on the set screw on shroud-side of the restrainer on Jet Pump number 6. The other tack weld was examined to the extent possible, due to limited access caused by a riser brace clamp, and observed to be sound. Also the set screw was observed to be in direct contact with the mixer (i.e., no gaps were observed.)
3. Two areas with indications which had been identified in 1991 in Core Spray header piping near the T-Boxes at 120° and 240° were examined to monitor these areas for change. In one area the indication was located in the base metal on the left side of the 120° T-Box and had originated from an arc strike. In the other area, the indication was located in the header piping on the left side of the 240° T-Box in the heat-affected zone (HAZ). Neither area exhibited discernible growth from that which had been previously reported.
4. An indication which had been reported on the Steam Dryer upper bank panel at 160° was examined to monitor for change. The indication was actually located on an upper bank panel at approximately 305°, but was easily distinguished from other marks on the dryer and identified by comparison with the video tape from the 1991 examination. This indication appears to be a mechanically induced mark (scratch), rather than any kind of cracking, and exhibited no change from 1991.
5. An indication area which had been identified in 1991 on the Core Spray Downcomer D (352.5°) lower elbow in the base metal was examined to monitor for change. The indication was observed to be greatly reduced in length, such that it appears to have been a scratch or scrape which is now being obscured by oxide coating (crud) deposited on the surface. This indication was evaluated as nonrelevant.



**BROWN'S FERRY NUCLEAR PLANT UNIT 3
CYCLE 7 FEB/MARCH 1997**

INVESSEL VISUAL EXAMINATION SUMMARY REPORT

Nonrelevant Indications

There were some areas that contained indications that were determined to be nonrelevant. These areas included the core spray sparger and piping. Many of these indications can be attributed to the coating of material that builds up selectively on the component surfaces. Many of these indications are commonly referred to as witness marks which result from disturbance of the coating by camera cables, invessel tools or fixtures. Other indications can be caused by scratches and dings or component features whose appearance is affected by the camera angle or lighting. Any indications which were suspected of being relevant service-related conditions, such as cracks, were investigated by reexamination using adjustments in camera angle, viewing distance, and/or lighting. Numerous scratches and grind marks were observed on many of the various components.

BROWNS FERRY NUCLEAR U3C7

Ultrasonic Examination of the RPV Shroud

Commencing March 3, 1997 GE Nuclear Energy performed an ultrasonic examination of the TVA, Browns Ferry Nuclear Unit 3 RPV shroud. The examinations were performed using GE's O.D. tracker scanner system. The examination scope included the H-1, H-4, H-5, H-6, and H-7 circumferential welds. Analysis of the ultrasonic data from the inspection concluded with the following findings:

The H-1 weld was a one sided examination performed from the lower, plate side of the weld using a 45° shear wave, 60° refracted longitudinal wave and O.D. creeping wave transducers. Approximately 78.4% of the weld was interrogated ultrasonically with major obstructions being the shroud lifting lugs, core spray downcomers, shroud lifting lugs, vibration instrumentation lugs and steam separator guide pins. A total of ten (10) reportable indications were found with a total flaw length of 10.84° (20.81").

The H-4 weld was a two sided examination performed from the upper and lower sides of the weld using a 45° shear wave, 60° refracted longitudinal wave and O.D. creeping wave transducers. Approximately 71.3% of the weld was interrogated ultrasonically with major obstructions being the shroud lifting lugs, core spray downcomers, shroud lifting lugs, vibration instrumentation lugs and steam separator guide pins. A total of seven (7) reportable indications were found with a total flaw length of 7.25° (13.92").

The H-5 weld was a one sided examination performed from the upper, plate side of the weld using a 45° shear wave, 60° refracted longitudinal wave and O.D. creeping wave transducers. Approximately 59.5% of the weld was interrogated ultrasonically with major obstructions being the shroud lifting lugs, core spray downcomers, vibration instrumentation lugs and lines, and steam separator guide pins. A total of thirty-nine (39) reportable indications were found with a total flaw length of 79.44° (143.59").

The H-6 weld was a one sided examination performed from the lower, plate side of the weld using a 45° shear wave, 60° refracted longitudinal wave and O.D. creeping wave transducers. Approximately 60.7% of the weld was interrogated ultrasonically with major obstructions being the shroud lifting lugs, core spray downcomers, vibration instrumentation and lines, and steam separator guide pins. There were no reportable indications.

The H-7 weld was examined from the upper, plate side of the weld using a 45° shear wave, 60° refracted longitudinal wave and O.D. creeping wave transducers. Approximately 59.7% of the weld was interrogated ultrasonically with major obstructions being the shroud lifting lugs, core spray downcomers, vibration instrumentation lugs and lines, and steam separator guide pins. A total of 5 (five) reportable indications were found with a total flaw length of 5.26° (9.21").

Shroud Collar Examinations

The downcomer piping after it turns from the lower elbow is connected to the sparger piping T-Box which is located on the inside of the core shroud. This is accomplished utilizing welds P4d (elbow weld to shroud pipe) and hidden weld P9 (shroud pipe to sparger T-box). The shroud pipe is also connected to a collar assembly (P8a) which attaches the configuration to the shroud OD (P8b).

The examinations were performed as one sided examinations from the collar side of the configurations using 60° and 70° shear wave transducers. The examination of weld P8b (collar to shroud) on the C downcomer resulted in 3 reportable indications with a total flaw length of 284° (19.83"). The remaining shroud collar examinations resulted in no reportable indications.

The summary sheets for the welds that have a full penetration configuration and have geometry recorded by the 60° and 70° shear wave transducers should read that this geometry is typical for all of the full penetration weld configurations.

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APPENDIX III

SECTION 2.0

AUGMENTED EXAMINATION SUMMARY

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UNIT 3 CYCLE 7
ISI REPORT OF AUGMENTED
EXAMINATIONS

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EXAM REQUIREMENT B01-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
CRDS	RCRD-3-44	ISI-0332-C 02	7112	NU0619	UT-45	BF-01	19970224	R-167	P	
CRDS	RCRD-3-44	ISI-0332-C 02	7112	NU0619	UT-60	BF-01	19970224	R-167	P	
CRDS	RCRD-3-44	ISI-0332-C 02	7112	NU0619	UT-CR	BF-35	19970224	R-167	P	
CRDS	RCRD-3-45	ISI-0332-C 02	7112	NU0619	UT-45	BF-35	19970224	R-169	P	
CRDS	RCRD-3-45	ISI-0332-C 02	7112	NU0619	UT-45	BF-29	19970224	R-169	P	
CRDS	RCRD-3-45	ISI-0332-C 02	7112	NU0619	UT-CR	BF-29	19970224	R-169	P	
CRDS	RCRDS-3-03	ISI-0332-C 02	7112	NU0619	UT-45	BF-35	19970224	R-168	P	
CRDS	RCRDS-3-03	ISI-0332-C 02	7112	NU0619	UT-CR	BF-35	19970224	R-168	P	

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EXAM REQUIREMENT B02-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RECIR	RWR-3-001-G017	ISI-0328-C 01	A	NU0313	UT-45	BF-79	19970227	R-187	P	
RECIR	RWR-3-001-G017	ISI-0328-C 01	A	NU0313	UT-60	BF-79	19970227	R-187	P	SUPP EXAM
RECIR	RWR-3-001-G020	ISI-0328-C 01	A	NU0313	UT-45	BF-79	19970227	R-186	P	
RECIR	RWR-3-001-G020	ISI-0328-C 01	A	NU0313	UT-60	BF-79	19970227	R-186	P	SUPP EXAM
RECIR	RWR-3-002-G006	ISI-0328-C 02	A	NU0313	UT-45	BF-79	19970228	R-189	P	
RECIR	RWR-3-002-G012	ISI-0328-C 02	A	NU0313	UT-45	BF-79	19970301	R-208	P	
RWCUS	RWCU-3-001-G020	ISI-0332-C 01	A	NU0313	UT-45	BF-31	19970228	R-147	P	
RWCUS	RWCU-3-001-G020	ISI-0332-C 01	A	NU0313	UT-60L	BF-31	19970228	R-147	P	
RECIR	GR-3-03(OL)	ISI-0328-C 01	E	NU0313	UT-60L	BF-83	19970224	R-122	P	
RECIR	GR-3-03(OL)	ISI-0328-C 01	E	NU0313	UT-70L	BF-83	19970224	R-122	P	
RECIR	GR-3-03(OL)	ISI-0328-C 01	E	NU0313	UT-CR	BF-83	19970224	R-122	P	
RECIR	GR-3-27(OL)	ISI-0328-C 02	E	NU0313	UT-60L	BF-83	19970225	R-151	P	
RECIR	GR-3-27(OL)	ISI-0328-C 02	E	NU0313	UT-70L	BF-83	19970225	R-151	P	
RECIR	GR-3-53(OL)	ISI-0328-C 01	E	NU0313	UT-60L	BF-83	19970227	R-170	P	
RECIR	GR-3-53(OL)	ISI-0328-C 01	E	NU0313	UT-70L	BF-83	19970227	R-170	P	
RECIR	GR-3-54(OL)	ISI-0328-C 01	E	NU0313	UT-60L	BF-83	19970225	R-132	P	
RECIR	GR-3-54(OL)	ISI-0328-C 01	E	NU0313	UT-70L	BF-83	19970225	R-132	P	
RECIR	GR-3-57(OL)	ISI-0328-C 01	E	NU0313	UT-60L	BF-83	19970224	R-145	P	
RECIR	GR-3-57(OL)	ISI-0328-C 01	E	NU0313	UT-70L	BF-83	19970224	R-145	P	
RECIR	GR-3-59(OL)	ISI-0328-C 02	E	NU0313	UT-60L	BF-83	19970227	R-183	P	BFPER970437
RECIR	GR-3-59(OL)	ISI-0328-C 02	E	NU0313	UT-70L	BF-83	19970227	R-183	P	BFPER970437
RECIR	GR-3-60(OL)	ISI-0328-C 02	E	NU0313	UT-60L	BF-83	19970227	R-182	P	
RECIR	GR-3-60(OL)	ISI-0328-C 02	E	NU0313	UT-70L	BF-83	19970227	R-182	P	
RECIR	GR-3-64(OL)	ISI-0328-C 02	E	NU0313	UT-60L	BF-83	19970224	R-129	P	
RECIR	GR-3-64(OL)	ISI-0328-C 02	E	NU0313	UT-70L	BF-83	19970224	R-129	P	



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CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT B02-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RHRS	DSRHR-3-11(OL)	ISI-0330-C 01	E	NU0313	UT-60L	BF-48	19970224	R-128	P	
RHRS	DSRHR-3-11(OL)	ISI-0330-C 01	E	NU0313	UT-70L	BF-48	19970224	R-128	P	
RHRS	DRHR-3-03B	ISI-0330-C 01	G	NU0313	VT-2		19970310	R-285	P	
RHRS	DRHR-3-13B	ISI-0330-C 01	G	NU0313	VT-2		19970310	R-285	P	

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

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

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT B03-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	N5A-CS-SPAR/PIPE-B	ISI-0220-C 01	B-N-1	IE8013	VT1M		19970314	R-268	P	SPARGER TO PIPE
RPV	N5A-CS-SPAR/PIPE-D	ISI-0220-C 01	B-N-1	IE8013	VT1M		19970314	R-268	P	SPARGER TO PIPE
RPV	N5B-CS-SPAR/PIPE-A	ISI-0220-C 01	B-N-1	IE8013	VT1M		19970314	R-268	P	SPARGER TO PIPE
RPV	N5B-CS-SPAR/PIPE-C	ISI-0220-C 01	B-N-1	IE8013	VT1M		19970314	R-268	P	SPARGER TO PIPE
RPV	CSLPA-TBX-120AS	IVVI EXAM	GE LTR	71142	VT1M		19970314	R-268	P	ARC STRIKE (R0)
RPV	CSLPA-TBX-120RB	IVVI EXAM	GE LTR	71142	VT1M		19970314	R-268	P	NOI-C5B-058
RPV	CSLPB-ELB-350	IVVI EXAM	GE LTR	71142	VT1M		19970314	R-268	P	LINEAR IND. (350)
RPV	CSLPB-TBX-240	IVVI EXAM	GE LTR	71142	VT1M		19970314	R-268	P	LINEAR IND. (240)
RPV	CSLPB-TBX-240RB	IVVI EXAM	GE LTR	71142	VT1M		19970314	R-268	P	NOI-C5B-057
RPV	CSLPBDCMRD355	IVVI EXAM	GE LTR	71142	VT1M		19970314	R-268	P	ARC STRIKE (355)
RPV	CSLPAPS&B	IVVI EXAM	IEB801	71142	VT1M		19970314	R-268	P	VT - 1 MIL WIRE, HEADER BKT
RPV	CSLPBPS&B	IVVI EXAM	IEB801	71142	VT1M		19970314	R-268	P	VT - 1 MIL WIRE, HEADER BKT
RPV	CS-DNCMRA-007	IVVI EXAM	SIL289	71141	VT1M		19970314	R-268	P	IEB 80-13/GESIL-289 R151
RPV	CS-DNCMRA-4A	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-AP4A
RPV	CS-DNCMRA-4A	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-AP4A
RPV	CS-DNCMRA-4B	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-AP4B
RPV	CS-DNCMRA-4B	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-AP4B
RPV	CS-DNCMRA-4C	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-AP4C
RPV	CS-DNCMRA-4C	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-AP4C
RPV	CS-DNCMRA-4D	IVVI EXAM	VIP-18	71141	EVT		19970314	R-268	P	VT - 1/2 MIL WIRE, BF3-1V97-13
RPV	CS-DNCMRA-5	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-AP5
RPV	CS-DNCMRA-5	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-AP5
RPV	CS-DNCMRA-6	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-AP6
RPV	CS-DNCMRA-6	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-AP6
RPV	CS-DNCMRA-7	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-AP7



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

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

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT B03-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	CS-DNCMRA-7	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-AP7
RPV	CS-DNCMRA-8A	IVVI EXAM	VIP-18	71141	EVT		19970314	R-268	P	VT - 1/2 MIL WIRE, BF3-1V97-13
RPV	CS-DNCMRA-8A	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-AP8A
RPV	CS-DNCMRA-8A	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-AP8A
RPV	CS-DNCMRA-8B	IVVI EXAM	VIP-18	71141	UT-60	020501	19970309	R-267	P	REF GE RC97-AP8B
RPV	CS-DNCMRA-8B	IVVI EXAM	VIP-18	71141	UT-70	020501	19970309	R-267	P	REF GE RC97-AP8B
RPV	CS-DNCMRB-172	IVVI EXAM	VIP-18	71141	VT1M		19970314	R-268	P	IEB 80-13/GESIL-289 R151
RPV	CS-DNCMRB-4A	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-BP4A
RPV	CS-DNCMRB-4A	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-BP4A
RPV	CS-DNCMRB-4B	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-BP4B
RPV	CS-DNCMRB-4B	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-BP4B
RPV	CS-DNCMRB-4C	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-BP4C
RPV	CS-DNCMRB-4C	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-BP4C
RPV	CS-DNCMRB-4D	IVVI EXAM	VIP-18	71141	EVT		19970314	R-268	P	VT - 1/2 MIL WIRE, BF3-1V97-14
RPV	CS-DNCMRB-5	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-BP5
RPV	CS-DNCMRB-5	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-BP5
RPV	CS-DNCMRB-6	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-BP6
RPV	CS-DNCMRB-6	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-BP6
RPV	CS-DNCMRB-7	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-BP7
RPV	CS-DNCMRB-7	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-BP7
RPV	CS-DNCMRB-8A	IVVI EXAM	VIP-18	71141	EVT		19970314	R-268	P	VT - 1/2 MIL WIRE, BF3-1V97-14
RPV	CS-DNCMRB-8A	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-BP8A
RPV	CS-DNCMRB-8A	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-BP8A
RPV	CS-DNCMRB-8B	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-BP8B
RPV	CS-DNCMRB-8B	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-BP8B

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

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

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT B03-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	CS-DNCMRC-187	IVVI EXAM	VIP-18	71141	VT1M		19970314	R-268	P	IEB 80-13/GESIL-289 R151
RPV	CS-DNCMRC-4A	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-CP4A
RPV	CS-DNCMRC-4A	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-CP4A
RPV	CS-DNCMRC-4B	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-CP4B
RPV	CS-DNCMRC-4B	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-CP4B
RPV	CS-DNCMRC-4C	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-CP4C
RPV	CS-DNCMRC-4C	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-CP4C
RPV	CS-DNCMRC-4D	IVVI EXAM	VIP-18	71141	EVT		19970314	R-268	P	VT - 1/2 MIL WIRE, BFPER9705
RPV	CS-DNCMRC-5	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-CP5
RPV	CS-DNCMRC-5	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-CP5
RPV	CS-DNCMRC-6	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-CP6
RPV	CS-DNCMRC-6	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-CP6
RPV	CS-DNCMRC-7	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-CP7
RPV	CS-DNCMRC-7	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-CP7
RPV	CS-DNCMRC-8A	IVVI EXAM	VIP-18	71141	EVT		19970314	R-268	P	VT - 1/2 MIL WIRE, BF3-1V97-15
RPV	CS-DNCMRC-8A	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-CP8A
RPV	CS-DNCMRC-8A	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-CP8A
RPV	CS-DNCMRC-8B	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-CP8B
RPV	CS-DNCMRC-8B	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-CP8B
RPV	CS-DNCMRD-352	IVVI EXAM	VIP-18	71141	VT1M		19970314	R-268	P	IEB 80-13/GESIL-289 R151
RPV	CS-DNCMRD-4A	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-DP4A
RPV	CS-DNCMRD-4A	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-DP4A
RPV	CS-DNCMRD-4B	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-DP4B
RPV	CS-DNCMRD-4B	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-DP4B
RPV	CS-DNCMRD-4C	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-DP4C

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

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

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT B03-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	CS-DNCMRD-4C	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-DP4C
RPV	CS-DNCMRD-4D	IVVI EXAM	VIP-18	71141	EVT		19970314	R-268	P	VT - 1/2 MIL WIRE, BF3-1V97-16
RPV	CS-DNCMRD-5	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-DP5
RPV	CS-DNCMRD-5	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-DP5
RPV	CS-DNCMRD-6	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-DP6
RPV	CS-DNCMRD-6	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-DP6
RPV	CS-DNCMRD-7	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-DP7
RPV	CS-DNCMRD-7	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-DP7
RPV	CS-DNCMRD-8A	IVVI EXAM	VIP-18	71141	EVT		19970314	R-268	P	VT - 1/2 MIL WIRE, BF3-1V97-16
RPV	CS-DNCMRD-8A	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-DP8A
RPV	CS-DNCMRD-8B	IVVI EXAM	VIP-18	71141	UT-60	020501	19970310	R-267	P	REF GE RC97-DP8B
RPV	CS-DNCMRD-8B	IVVI EXAM	VIP-18	71141	UT-70	020501	19970310	R-267	P	REF GE RC97-DP8B

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

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

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT B06-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	JPRBRCLP-3-5-6	IVVI EXAM	BFSE	711410	VT-3		19970314	R-268	P	BFSE 93-143
RPV	STMDRY-6-160	IVVI EXAM	GELTR	711414	VT-3		19970226	R-268	P	BFSE 94-002, BF3-1V97-01
RPV	CSTEEBX-3-120	IVVI EXAM	SIL289	71143	VT1M		19970314	R-268	P	WITH IEB 80-13
RPV	CSTEEBX-3-240	IVVI EXAM	SIL289	71143	VT1M		19970314	R-268	P	WITH IEB 80-13
RPV	JPSENLIN-3-ALL	IVVI EXAM	SIL420	71147	VT-3		19970314	R-268	P	
RPV	JPRISBR-3-1-2	IVVI EXAM	SIL551	71149	VT-3		19970314	R-268	P	
RPV	JPRISBR-3-3-4	IVVI EXAM	SIL551	71149	VT-3		19970314	R-268	P	
RPV	JPRISBR-3-5-6	IVVI EXAM	SIL551	71149	VT-3		19970314	R-268	P	
RPV	JPRISBR-3-7-8	IVVI EXAM	SIL551	71149	VT-3		19970314	R-268	P	
RPV	JPRISBR-3-9-10	IVVI EXAM	SIL551	71149	VT-3		19970314	R-268	P	
RPV	N10-LPC NOZ	ISI-0445-C 01	SIL571	711415	VT-2		19970310	R-265	P	INST NOZ SE
RPV	N11A-INST.NOZ	ISI-0220-C 01	SIL571	711415	VT-2		19970310	R-265	P	INST NOZ SE
RPV	N11B-INST.NOZ	ISI-0220-C 01	SIL571	711415	VT-2		19970310	R-265	P	INST NOZ SE
RPV	N12A-INST.NOZ	ISI-0220-C 01	SIL571	711415	VT-2		19970310	R-265	P	INST NOZ SE
RPV	N12B-INST.NOZ	ISI-0220-C 01	SIL571	711415	VT-2		19970310	R-265	P	INST NOZ SE
RPV	N16A-INST.NOZ	ISI-0220-C 01	SIL571	711415	VT-2		19970310	R-265	P	INST NOZ SE
RPV	N16B-INST.NOZ	ISI-0220-C 01	SIL571	711415	VT-2		19970310	R-265	P	INST NOZ SE
RPV	CORESHR-3-H-1	IVVI EXAM	SIL572	71144	UT-45	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-01
RPV	CORESHR-3-H-1	IVVI EXAM	SIL572	71144	UT-60L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-01
RPV	CORESHR-3-H-1	IVVI EXAM	SIL572	71144	UT-80L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-01
RPV	CORESHR-3-H-4	IVVI EXAM	SIL572	71144	UT-45	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-03
RPV	CORESHR-3-H-4	IVVI EXAM	SIL572	71144	UT-60L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-03
RPV	CORESHR-3-H-4	IVVI EXAM	SIL572	71144	UT-80L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-03
RPV	CORESHR-3-H-5	IVVI EXAM	SIL572	71144	UT-45	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-02
RPV	CORESHR-3-H-5	IVVI EXAM	SIL572	71144	UT-60L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-02



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

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

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED

EXAM REQUIREMENT B06-02 UNIT: THREE CYCLE: 7 COMMERCIAL SERVICE DATE: MARCH 1, 1977 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Identification	ISI Drawing/Sht	Exam Category	Item Number	Exam Schedule	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	CORESHR-3-H-5	IVVI EXAM	SIL572	71144	UT-80L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-02
RPV	CORESHR-3-H-6	IVVI EXAM	SIL572	71144	UT-45	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-04
RPV	CORESHR-3-H-6	IVVI EXAM	SIL572	71144	UT-80L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-04
RPV	CORESHR-3-H-6	IVVI EXAM	SIL572	71144	UT-80L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-04
RPV	CORESHR-3-H-7	IVVI EXAM	SIL572	71144	UT-45	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-05
RPV	CORESHR-3-H-7	IVVI EXAM	SIL572	71144	UT-80L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-05
RPV	CORESHR-3-H-7	IVVI EXAM	SIL572	71144	UT-80L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-05
RPV	CORESHR-3-H-7	IVVI EXAM	SIL572	71144	UT-80L	SHRD31	19970310	R-267	P	GENE-523-113-0894, REF GE R-S97-05
RPV	JPADJSC-3-1-20	IVVI EXAM	SIL574	711411	VT-1		19970314	R-268	P	BFFPER970522

ENCLOSURE 2

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT (BFN)
UNIT 3
AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), SECTION XI
REPAIR AND REPLACEMENTS PROGRAM

SUMMARY REPORT (NIS-2) FOR CYCLE 7 OPERATION

(SEE ATTACHED)



BROWNS FERRY
NUCLEAR PLANT

UNIT 3 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 Repairs or Replacements**

Owner: **TENNESSEE VALLEY AUTHORITY**
1101 Market Street
Chattanooga, TN 37402-2801

Plant: **Browns Ferry Nuclear Plant**
P. O. Box 2000
Decatur, AL 35609-2000

Unit: **Three**

Certificate of Authorization: **Not Required**

Commercial Service Date: **March 1, 1977**

National Board Number for Unit: **Not Required**

APPENDIX I

SUMMARY OF REPAIR AND REPLACEMENT ACTIVITIES

Owner: TENNESSEE VALLEY AUTHORITY
1101 Market Street
Chattanooga, TN 37402-2801

Plant: Browns Ferry Nuclear Plant
P. O. Box 2000
Decatur, AL 35609-2000

Unit: Three

Certificate of Authorization: Not Required

Commercial Service Date: March 1, 1977

National Board Number for Unit: Not Required

<u>WID</u>	<u>SYS</u>	<u>ORG</u>	<u>CLASS</u>	<u>ACTIVITY</u>
T39062 96-013071-000	073	TVA	2	Repair and Replacement
T39724 96-012973-000 96-012973-001	069	TVA	1	Replacement
V39402 95-022282-001	008	TVA	2	Replacement
96-006022-000	071	MAINT	2	Replacement
96-007149-010	074	MAINT	1	Replacement
96-008218-000	068	MAINT	1	Replacement
96-008938-001	075	MAINT	1	Repair
T39906, Stages 6 & 8 96-009016-004 97-001758-000 96-009016-010	001	MAINT	1	Replacement
T38171, Stage 2 96-012835-000	073	MAINT	2	Replacement
96-012928-000	001	MAINT	1	Replacement
96-012941-000	001	MAINT	1	Replacement
96-015423-000	073	MAINT	2	Replacement

Owner: **TENNESSEE VALLEY AUTHORITY**
1101 Market Street
Chattanooga, TN 37402-2801

Plant: **Browns Ferry Nuclear Plant**
P. O. Box 2000
Decatur, AL 35609-2000

Unit: **Three**

Certificate of Authorization: **Not Required**

Commercial Service Date: **March 1, 1977**

National Board Number for Unit: **Not Required**

LEGEND

WID - Work Implementing Document

Example: **A99999** refers to a Design Change Notice
99-999999-999 refers to a Work Order

SYS- System

1 - Main Steam	68 - Reactor Water Recirculation
3 - Reactor Feedwater	69 - Reactor Water Cleanup
8 - Turbine Drains	71 - Reactor Core Isolation Cooling
10 - Reactor Drains, Vents and Blowdown	73 - High Pressure Coolant Injection
12 - Auxiliary Boiler	74 - Residual Heat Removal
63 - Standby Liquid Control	75 - Core Spray
	85 - Control Rod Drive

ORG - Organization which performed the WID

MAINT - TVA's Maintenance Organization

GE - General Electric Company

**TVA - Work performed by Stone and Webster Engineering Corporation
utilizing TVA's Quality Assurance Program and procedures**

CLASS - Refers to ASME Code Class 1 or 2

ACTIVITY - Classifies work activity as being repair or replacement as denoted on NIS-2 Form

Owner: TENNESSEE VALLEY AUTHORITY
1101 Market Street
Chattanooga, TN 37402-2801

Plant: Browns Ferry Nuclear Plant
P. O. Box 2000
Decatur, AL 35609-2000

Unit: Three

Certificate of Authorization: Not Required

Commercial Service Date: March 1, 1977

National Board Number for Unit: Not Required

APPENDIX II

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

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Tennessee Valley Authority (TVA) Date May 1, 1997
Name
1101 Market Street
Chattanooga, TN 37402-2801
Address
2. Plant Browns Ferry Nuclear Plant (BFN) Unit 3
P. O. Box 2000, Decatur, AL 35609-2000
Address
 Design Change Notice T39062, Work Plan T39062-001 & Work Order 96-013071-000
Repair Organization P.O. No., Job No., etc.
3. Work Performed by TVA-BFN Type Code Symbol Stamp N/A
Name
P. O. Box 2000, Decatur, AL 35609-2000
Address
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System System 073, High Pressure Coolant Injection System
5. (a) Applicable Construction Code (73-603 valve) ASME Section III, 1983 Edition
(piping) USAS B31.1.0 19 87 * Edition, N/A Addenda, N-416-1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HPCI Turbine Exhaust Check Valve	Anchor/Darling-20"x16"x16"-150# Globe Lift Check	EZ821-2-1	N/A	3-CKV-073-0603	1996	Replacement	No
Leakage Test Valve	Hancock 3/4" Globe	N/A	N/A	3-TV-073-0637	N/A	Repair	No
Pipe Support	TVA	N/A	N/A	R-52	1997	Replacement	No

7. Description of Work Replaced check valve 3-CKV-073-603, Repaired arc strike on 3-TV-073-637 and replaced part of pipe support R-52.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
 Other ☐ Pressure N/A psi Test Temp. N/A °F

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

*as amended by additional quality assurance requirements found in Contract 68C37-91750 and Design Criteria BFN-50-7073.



FORM NIS-2 (Back)

9. Remarks Installed new Anchor/darling check valve for 3-CKV-73-603 as part of the planned improvements to the BFN Leak Rate Testing
Program. Removed arc strike and performed weld repair on 3-TV-73-637. Reconfigured parts of support R-52 as necessary for the new check
valve.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair and replacement conforms to the rules of the
repair or replacement
ASME Code Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Stephen C. Willard, Systems Engineer
Owner or Owner's Designer, Title

Date

5/14

.19 97

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 HSEIT of
HARTFORD, CT have inspected the components described
in this Owner's Report during the period 10/3/96 to 3/12/97, 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.

Albert Tadd
Inspector's Signature

Commissions

TN 3135 "N" "I"
National Board, State, Province, and Endorsements

Date

May 15 19 97

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 (TVA)
Name
1101 Market Street
Chattanooga, TN 37402-2801
Address

Date May 1, 1997

Sheet 1 of 1

2. Plant Browns Ferry Nuclear Plant (BFN)
P. O. Box 2000, Decatur, AL 35609-2000
Address

Unit 3

Design Change Notice T39724A, Stages 1 & 2 and
 Work Plans T39724-001 & T39724-002
 Work Orders 96-012973-000 & 96-012973-001
Repair Organization P.O. No., Job No., etc.

3. Work Performed by TVA-BFN
Name
P. O. Box 2000, Decatur, AL 35609-2000
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System System 069, Reactor Water Cleanup System

5. (a) Applicable Construction Code (valves) ASME Section III, 1986 Edition
(piping) USAS B31.1.0 19 67* Edition, N/A Addenda, N-416-1 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU System Return Check Valve	Anchor/Darling 4"-900# Globe Lift Check	EZ862-1-1	N/A	3-CKV-069-0628	1997	Replacement	No
RWCU System Return Check Valve	Anchor/Darling 4"-900# Globe Lift Check	EZ862-1-2	N/A	3-CKV-069-0629	1997	Replacement	No

7. Description of Work Installed new check valves.

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

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

*as amended by additional quality assurance requirements found in Contract 68C37-91750 and Design Criteria BFN-50-7069.



FORM NIS-2 (Back)

9. Remarks Installed new Anchor/Darling check valves as part of the planned improvements to the BFN Leak Rate Testing Program.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
repair or replacement
 ASME Code Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Stephen C. Williams, Systems Engineer
Owner or Owner's Designee, Title

Date 5/14 .19 97

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 HSB I & I of
HARTFORD CT have inspected the components described
 in this Owner's Report during the period 9/24/96 to 3/12/97, 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.

Albert Tall
Inspector's Signature

Commissions TN 3135 "N" "I"
National Board, State, Province, and Endorsements

Date May 15 19 97

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 (TVA)
Name
1101 Market Street
Chattanooga, TN 37402-2801
Address

Date May 1, 1997

Sheet 1 of 1

2. Plant Browns Ferry Nuclear Plant (BFN)
P. O. Box 2000, Decatur, AL 35609-2000
Address

Unit 3
 Design Change Notice V39402B
 Work Order 95-022282-001
Repair Organization P.O. No., Job No., etc.

3. Work Performed by TVA-BFN
Name
P. O. Box 2000, Decatur, AL 35609-2000
Address

Type Code Symbol Stamp N/A
 Authorization No. N/A
 Expiration Date N/A

4. Identification of System System 008, Turbine Drains & Misc Piping

(valve) ASME Sec III, 1974 Edition, Winter 1975 Addenda
 5. (a) Applicable Construction Code (pipe) USAS B31.1.0 19 67 * Edition, N/A Addenda, N-416-1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

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)
Seal Steam Hdr Main Steam Shutoff Valve	Borg Warner Model 81010	49487	N/A	3-SHV-8-575	1979	Replacement	Yes

7. Description of Work Removed existing manual gate valve. Installed new Borg Warner manual gate valve and additional hanger.

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

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

*as amended by additional quality assurance requirements found in Contracts 68C37-91602 and P97N2R-205053.

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

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 Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

W. Dalgic

System Engineer

Date

May 8

, 19 97

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 HSB&ET of HARTFORD, CT have inspected the components described in this Owner's Report during the period 10/28/96 to 3/13/97, 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.

Albert Todd

Inspector's Signature

Commissions

TN 3135 "N" "I"

Albert Todd ALL 5/8/97

National Board, State, Province, and Endorsements

Date

May 8

19 97

CLEVELAND ELECTRIC ILLUMINATIONS
P.O. P. 13642
IMPORTS OF CUMULATIVE UNITS 1 & 2

- | (a) Model No.
Serial
or Type | (b) N Certificate Holder's
Serial
No. | (c) Canadian
Registration
No. | (d) Drawing
No. | (e) Class | (f) Nat'l.
Co. No. | (g) Year
Built |
|------------------------------------|---|-------------------------------------|--------------------|-----------|-----------------------|-------------------|
|------------------------------------|---|-------------------------------------|--------------------|-----------|-----------------------|-------------------|

6. Design Conditions 3600 psi 100 °F or Valve Pressure Class 1500# (1)
(Pressure) (Temperature)

7. Cold Working Pressure 3600 psi at 100°F.

8. Pressure Retaining Pieces

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

FORM NPV-1 (Back)

[illegible]

9. Hydrocyclone test 5400 psi. Dist Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

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

Addenda Winter 1975, Code Case No. N/A, Date 5/6/79

Signed Nuclear Valve Div., Borg Warner by [Signature]

Our ASME Certificate of Authorization No. X-1254 to use the X symbol expires 10/27/81

CERTIFICATION OF DESIGN

Design information on file at: BYD of Borg Warner, 7500 Tyrol Ave., Van Nuys, Ca. 91409

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) Jeffrey Lee Fink

PE State: PA Reg. No. 25626

Stress analysis certified by (1) R/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 55/17 19 79, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date: 5/17/79 Commission: 1275 CA. NB766P
(Initiator) (Part B4, Sub. Form and No.)

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 (TVA) Date May 1, 1997
1101 Market Street Name
Chattanooga, TN 37402-2801 Address
 Sheet 1 of 1
2. Plant Browns Ferry Nuclear Plant (BFN) Unit 3
P. O. Box 2000, Decatur, AL 35609-2000 Address
 Work Order 96-006022-000
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by TVA-BFN Type Code Symbol Stamp N/A
P. O. Box 2000, Decatur, AL 35609-2000 Name
 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System System 071, Reactor Core Isolation Cooling System
5. (a) Applicable Construction Code USAS B31.1.0 19 67 * Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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)
Auxiliary Steam Supply Check Valve	Powell, 9061WE	N/A	N/A	3-CKV-071-0564	N/A	Replaced	No

7. Description of Work Replaced check valve bonnet with bonnet from corresponding Unit 1 valve.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☐ Pressure N/A psi Test Temp. N/A *F
 Applicable Edition of Section XI for pressure testing was 1974, Summer 1975 Addenda which did not require pressure test for this bolted replacement.

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.

*as amended by additional quality assurance requirements found in Contract 68C37-91602 and Design Criteria BFN-50-7071.

FORM NIS-2 (Back)

9. Remarks Replacement bonnet obtained from corresponding Unit 1 check valve (same manufacturer and model).

Applicable Manufacturer's Data Reports to be attached

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 Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed *Robert J. V.* System Engineer
Owner or Owner's Designee, Title

Date May 8, 19 97

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 HSB I&I of HARTFORD, CT have inspected the components described in this Owner's Report during the period 6/19/96 to 9/2/96, 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.

Robert J. V.
Inspector's Signature

Commissions TN 3135 "N"CI"
National Board, State, Province, and Endorsements

Date May 8, 19 97



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 (TVA) Date May 1, 1997
1101 Market Street Name
Chattanooga, TN 37402-2801 Address
 Sheet 1 of 1
2. Plant Browns Ferry Nuclear Plant (BFN) Unit 3
P. O. Box 2000, Decatur, AL 35609-2000 Address
 Work Order 96-007149-010
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by TVA-BFN Type Code Symbol Stamp N/A
P. O. Box 2000, Decatur, AL 35609-2000 Name
 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System System 074, Residual Heat Removal System
5. (a) Applicable Construction Code USAS B31.1.0 19 67 * Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR System II Testable Check Valve	Atwood & Morrill 11047	N/A	N/A	3-FCV-074-0068	N/A	Replaced	No

7. Description of Work Replaced one stud and two nuts lost during maintenance.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
 Other ☐ Pressure N/A psi Test Temp. N/A *F

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

*as amended by additional quality assurance requirements found in Contract 68C37-91602 and Design Criteria BFN-50-7074.



FORM NIS-2 (Back)

9. Remarks Replacement stud and nuts obtained from the corresponding Unit 1 valve (same manufacturer and model).

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
repair or replacement
ASME Code Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

System Engineer

Date

May 8

, 19 97

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 HSBIEI of HARTFORD, CT have inspected the components described in this Owner's Report during the period 2/26/97 to 3/13/97, 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.

Albert Ladd

Inspector's Signature

Commissions

TN 3135 "N" "I"

National Board, State, Province, and Endorsements

Date

May 8 19 97

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 3-26-97
Name
1101 Market Street Chattanooga, Tenn
Address 37402-2801
 2. Plant Browns Ferry Nuclear Plant Sheet 1 of 1
Name Unit 3
P.O. Box 2000 Decatur, ALA 35609 96-008218-000
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by TVA Type Code Symbol Stamp NA
Name Authorization No. NA
P.O. Box 2000 Decatur ALA 35609 Expiration Date NA
Address
 4. Identification of System RWR 068
 5. (a) Applicable Construction Code AISC 19 8th Edition, Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

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)
SUPPORT CAP SCREWS	TVA	3-47B456-2091	NA		1992	Replaced	NO

7. Description of Work The four (4) cap screws were replaced identical parts. Fixc BYM 791V. VT-3 performed After support was reassembled, PSE Report RZ64.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☐ Pressure NA psi Test Temp. NA °F

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

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

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 Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Id. Bulger System Engineer (ISE) Date May 1, 19 97
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 BOILER of HARTFORD, CT. have inspected the components described in this Owner's Report during the period 3/28/97 to 3/12/97, 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.

Albert Ladd Commissions 3135 ("N", "I", "B", "S", "A")
Inspector's Signature National Board, State, Province, and Endorsements

Date May 1, 19 97

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

1. Owner TENNESSE VALLEY AUTHORITY Date 3-24-97
Name
1101 MARKET STREET, CHATTANOOGA, TN Sheet 1 of 1
Address 37402-2801
2. Plant BROWNS FERRY NUCLEAR PLANT Unit 3
Name
P.O. Box 2000, DECATUR, ALABAMA 96-008938-001
Address 35604 Repair Organization P.O. No., Job No., etc.
3. Work Performed by T.V.A. Type Code Symbol Stamp NA
Name Authorization No. NA
P.O. Box 2000, DECATUR, AL 35609 Expiration Date NA
Address
4. Identification of System ONE SBOY (75)
5. (a) Applicable Construction Code ASAS B31.1-0 1967* Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

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)
HANGER		N/A	N/A	47B458-566		REPAIRED	NO

7. Description of Work REPAIRED DEFECT IN WELD. BY GRINDING
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N/A
 Other ☐ Pressure N/A psi Test Temp. N/A °F

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

* as amended by additional quality assurance requirements found in Contract 68C37-91062 and Design Criteria BFN-50-7075.



FORM NIS-2 (Back)

9. Remarks Repair by grinding affected weld material only. Base metal was
Applicable Manufacturer's Data Reports to be attached
not affected. The NVT3 inspection verified minimum acceptable weld metal
remaining

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. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] System Engineer (ISI) Date May 1, 1997
 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 BOILER of
HARTFORD, CT have inspected the components described
 in this Owner's Report during the period 3/1/97 to 3/3/97, 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.

[Signature] Commissions 3135 (N"Z" A"B"5")
 Inspector's Signature National Board, State, Province, and Endorsements

Date May 1 1997



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 (TVA)
Name
1101 Market Street
Chattanooga, TN 37402-2801
Address

Date May 1, 1997

Sheet 1 of 1

2. Plant Browns Ferry Nuclear Plant (BFN)
P. O. Box 2000, Decatur, AL 35609-2000
Address

Unit 3

Design Change Notices T39906, F40125, F40144, V36612
 Work Orders 96-009016-004, 96-009016-010, 97-001758-000
Repair Organization P.O. No., Job No., etc.

3. Work Performed by TVA-BFN
Name
P. O. Box 2000, Decatur, AL 35609-2000
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System System 001, Main Steam System

5. (a) Applicable Construction Code USAS B31.1.0 19 67 * Edition, N/A Addenda, N-416-1 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Line A Inboard Isolation Valve	Atwood & Mornill 20851-H-26	N/A	N/A	3-FCV-001-0014	N/A	Replacement	No
Main Steam Line D Inboard Isolation Valve	Atwood & Mornill 20851-H-26	N/A	N/A	3-FCV-001-0051	N/A	Replacement	No

7. Description of Work Replaced valve stem and cover (bonnet).

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure N/A psi Test Temp. N/A *F

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

*as amended by additional quality assurance requirements found in Contract 68C37-91750, GE Purchase Specifications 21A1062 Rev. 0 and 21A1062AL Rev. 6, and Design Criteria BFN-SO-7001.

FORM NIS-2 (Back)

9. Remarks Modifications included replacement of valve stem and cover (bonnet) to improve valve performance and leakage rates.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
repair or replacement
ASME Code Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Stephen C. Wilkard, Systems Engineer Date 5/16 19 97
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 H581 & I of
HARTFORD CT have inspected the components described
in this Owner's Report during the period 2/26/97 to 3/12/97, 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.

Albert Ladd Commissions TN 3135 "N" "I"
Inspector's Signature National Board, State, Province, and Endorsements

Date May 16 19 97

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 (TVA) Date May 1, 1997
1101 Market Street Name
Chattanooga, TN 37402-2801 Address
 Sheet 1 of 1
2. Plant Browns Ferry Nuclear Plant (BFN) Unit 3
P. O. Box 2000, Decatur, AL 35609-2000 Address
 Design Change Notice T38171, Stage 2
 Work Order 96-012835-000
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by TVA-BFN Type Code Symbol Stamp N/A
P. O. Box 2000, Decatur, AL 35609-2000 Name
 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System System 073, High Pressure Coolant Injection System
5. (a) Applicable Construction Code USAS B31.1.0 19 67 * Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HPCI Main Pump Minimum Flow Valve	Powell, 19051WE	N/A	N/A	3-FCV-073-0030	N/A	Replacement	No

7. Description of Work Replaced valve stem and actuator
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Replacement included two tack welds which did not penetrate the pressure boundary.
 Other ☐ Pressure N/A psi Test Temp. N/A °F

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

*as amended by additional quality assurance requirements found in Contract 68C37-91602 and Design Criteria BFN-50-7073.



FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

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 Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Stephen C. Willard, System Engineer
Owner or Owner's Designee/Title

Date

5/12, 19 97

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 HSBT&I of
HARTFORD, CT have inspected the components described
in this Owner's Report during the period 3/5/97 to 3/8/97, 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.

Albert T. Ladd
Inspector's Signature

Commissions

TN 3135 "I" "N"

National Board, State, Province, and Endorsements

Date

May 12, 19 97

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 (TVA)
1101 Market Street
Chattanooga, TN 37402-2801
Name
Address

Date May 1, 1997

Sheet 1 of 1

2. Plant Browns Ferry Nuclear Plant (BFN)
P. O. Box 2000, Decatur, AL 35609-2000
Address

Unit 3

Work Order 96-012928-000 and 96-013842-002
Repair Organization P.O. No., Job No., etc.

3. Work Performed by TVA-BFN
P. O. Box 2000, Decatur, AL 35609-2000
Name
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System System 001, Main Steam System

5. (a) Applicable Construction Code ASME Sec. III 19 68 * Edition, Summer 1970 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Relief Valve	Target Rock Corp. 7567F-000-10	1062	N/A	3-PCV-001-0004	1968	Replaced	No

7. Description of Work Replaced MSRV main valve body for inspection and testing.

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

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

as amended by additional quality assurance requirements found in Contract 68C37-91750 and Design Criteria BFN-50-7001.

FORM NIS-2 (Back)

9. Remarks Main valve body replaced with refurbished valve body from the corresponding valve in Unit 1 (same manufacturer and model).
Applicable Manufacturer's Data Reports to be attached
Replaced missing nuts & stud damaged during disassembly as part of refurbishment under WD 96-013842-002.
5/10/97
4/14/97

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
repair or replacement
 ASME Code Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Stephen C. Willard Systems Engineer
Owner or Owner's Designee, P/E

Date 5/9 19 97

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 HSB I&E of
HARTFORD, CT have inspected the components described
 in this Owner's Report during the period 8/14/97 to 3/12/97, 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.

Albert Todd
Inspector's Signature

Commissions TN3135 "N" "I"
National Board, State, Province, and Endorsements

Date May 9 19 97

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 (TVA)
1101 Market Street
Chattanooga, TN 37402-2801
Name
Address

Date May 1, 1997

Sheet 1 of 1

2. Plant Browns Ferry Nuclear Plant (BFN)
P. O. Box 2000, Decatur, AL 35609-2000
Name
Address

Unit 3

Work Order 96-012941-000 and 96-013842-003
Repair Organization P.O. No., Job No., etc.

3. Work Performed by TVA-BFN
P. O. Box 2000, Decatur, AL 35609-2000
Name
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System System 001, Main Steam

5. (a) Applicable Construction Code ASME Sec. III 19 68* Edition, Summer 1970 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Relief Valve	Target Rock Corp. 7587F-000-10	1075	N/A	3-PCV-001-0031	1968	Replaced	No

7. Description of Work Replaced MSRV main valve body for inspection and testing.
Replaced discharge flange nut lost during maintenance.

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

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

*as amended by additional quality assurance requirements found in Contract 68C37-91750 and Design Criteria BFN-50-7001.

FORM NIS-2 (Back)

9. Remarks Main valve body replaced with refurbished MSRV valve body previously used in Unit 1 (same manufacturer and model). 4/14/97
Applicable Manufacturer's Data Reports to be attached
Replaced missing components (5 bolts & 12 spline nuts) during refurbishment under WD 96-013842-003, scw 6-10-97

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
repair or replacement
 ASME Code Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Stephen C. Williams Systems Engineer
Owner or Owner's Designee, Title

Date

5/9 . 19 97

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 HSBI&I of HARTFORD, CT have inspected the components described in this Owner's Report during the period 2/26/97 to 3/10/97, 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.

Albert Ladd
Inspector's Signature

Commissions

TN 3135 "I" "N"
National Board, State, Province, and Endorsements

Date

May 9 19 97



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 February 3, 1997
1101 Market St. Name
Chattanooga, Tn. 37402-2801 Address
 Sheet 1 of 1
2. Plant Browns Ferry Nuclear Plant Unit 3
P.O. Box 2000; Decatur, Al. 35609-2000 Address
Work Order 96-015423-000
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by TVA Type Code Symbol Stamp N/A
P.O. Box 2000; Decatur, Al. 35609-2000 Name
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System System 73, High Pressure Coolant Injection
5. (a) Applicable Construction Code USAS B31.1.99 67 Edition, * N/A Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86 89 - SCW 4/16/97
 * as supplemented by requirements contained in contract 68C37-91062 - Rev 5/6/97
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)
Support(Snubber) Pacific Scientific 3-47B455-629	Pacific Scientific	6468	N/A	3-SNUB-073-5010	N/A	Repaired	NO

7. Description of Work Replaced snubber 3-SNUB-073-5010 with like-for-like; this snubber is an ASME Code Class 2 equivalent component.

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

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



FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Data Reports to be attached

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 Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Jimmy E. Kiber Mechanical Engineer Date February 3, 19 97
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 BOILER of HARTFORD, CT have inspected the components described in this Owner's Report during the period 1/24/97 to 2/3/97, 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.

Albert Tadd Commissions 3135 ("N" "I" "S" "B" "A")
Inspector's Signature National Board, State, Province, and Endorsements

Date May 1 19 97



FORM NP-2 NPT CERTIFICATE HOLDERS' PARTIAL DATA REPORT FOR PARTS FOR COMPONENT SUPPORT
As Required by the Provisions of the ASME Code Rules, Section III, Division 1

- Job-8500
1. Manufactured by Bergen-Paterson Pipesupport Corp., Laconia, NH 03246
(Name and address of NPT Certificate Holder)
2. Manufactured for Tennessee Valley Authority, Knoxville, Tennessee
(Name and address of purchaser or owner)
3. Location of Installation Hartsville Nuclear Power Plant, Hartsville, Tennessee

4. TAG (a) Part Serial No.	N/A (b) Canadian Registration No.	* (c) Part Drawing No.	Rev. #	(d) Description of Part	(e) Class	N/A (f) National Board No.	(g) Year Built
(1) X17VS-310980 ✓		*	0	Item 3	2	Qty of 2	1980
(2) X17VS-311183 ✓		*	0	Item 3	2	Qty of 2	1980
(3) X17VS-311422 ✓		*	0	Item 3	2	Qty of 2	1980
(4) X17VS-320144 ✓		*	0	Item 1	2	Qty of 2	1980
(5) X17VS-320250 ✓		*	1	Item 3	3	Qty of 2	1981
(6) X17VS-420123 ✓		*	0	Item 3	3		1980
(7) X17VS-110062 ✓		*	0	Item 3,8,9	2	Qty of 2	1980
(8) X17RS-420122 ✓		*	1	Item 1,3,4	3	Qty of 2	1980
(9) X17RS-420123 ✓		*	1	Item 1	3		1980
(10) X17RS-310258		*	0	Item 1	3	Qty of 2	1980

* Tag number same as drawing number.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component support parts conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1977, Addenda Summer 1977, Code Case no. N/A.
(Date)

Date 9-13 19 81. Signed Bergen-Paterson by Jean Keyes-Stewart
(NPT Certificate Holder)

Our ASME Certificate of Authorization No. 1217 to use the NPT Symbol expires 9-8-81
(INPT) (Date)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass and employed by HSBI & I Co. of Hartford, CT

have inspected the parts for the component supports described in this Data Report on March 17 19 81, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date March 17 19 81

Signed Y. Price Commissioner Mass 1976
(Not' Board, State, Province, and No.)

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

(10/77)

This form (E00078) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

BERGEN-PATERSON PIPESUPPORT CORP.

page 4 of 50

FORM NP-2 NPT CERTIFICATE HOLDERS' PARTIAL DATA REPORT FOR PARTS FOR COMPONENT SUPPORT*

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

Job-8500

1. Manufactured by Bergen-Paterson Pipesupport Corp., Laconia NH 03246

(Name and address of NPT Certificate holder)

2. Manufactured for Tennessee Valley Authority, Knoxville, Tennessee

(Name and address of purchaser or owner)

3. Location of Installation Hartsville Nuclear Power Plant, Hartsville, Tennessee

4. TAG (a) Part Serial No.	N/A (b) Canadian Registration No.	* (c) Part Drawing No.	Rev.#	(d) Description of Part	(e) Class	N/A (f) National Board No.	(g) Year Built
(11) X17SS-310920 ✓		*	0	Item 2	2		1980
(12) X17VS-130294 ✓		*	0	Item 3	3		1981
(13) X17SP-130211 ✓		*	0	Item 4,5	3	Qty of 2	1981
(14) X17SP-130359 ✓		*	0	Item 1	3		1981
(15) X17SP-130361 ✓		*	0	Item 1	3		1981
(16) X17SP-130414 ✓		*	0	Item 1,2	3	Qty of 2	1981
(17) X17VS-120243 ✓		*	0	Item 3	3		1981
(18) X17SS-310779 ✓		*	0	Item 2	2	Qty of 2	1980
(19) X17VS-120161 ✓		*	0	Item 3	2		1981
(20) X17VS-102162 ✓		*	0	Item 3	2		1981
(21) X17RS-310834 ✓		*	1	Item 1,2	2		1980
(22) X17RS-311028 ✓		*	1	Item 1,3	2		1980
(23) X17RS-320247 ✓		*	0	Item 1	3	Qty of 2	1980
(24) X17SP-120041 ✓		*	2	Item 3,4,5	2	Item 3,4 Qty of 2	1980
(25) X17RS-320136 ✓		*	1	Item 1	3		1980
(27) X17RS-320557 ✓		*	1	Item 1	3		1980
(28) X17RS-320251 ✓		*	0	Item 1,2	3	Qty of 2	1980

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

Sheet 4 of 9

1. Manufactured by Pacific Scientific 1346 S. State College Blvd. Anaheim, Ca. 92801
(Name and address of NPT Certificate holder)

2. Manufacturer for Bergen Paterson Pipe Support Corp. 74 C Commerce Way
Woburn, Massachusetts 01801
(Name and address of purchaser or owner)

3. Location of Installation Unknown

4. Identification

(a) Component Support I.D. No.	(b) Canadian Registration No.	(c) Applicable Drawings with Last Rev. & Date	(d) Stress Report or Load Capacity Data Sheet	(e) Type of Component Support	(f) Class	(g) Nat'l Board No.	(h) Year Built
(1) <u>6457-6519</u>	<u>None</u>	<u>1801103-07-H</u>	<u>DR-1352-</u>	<u>linear</u>	<u>1</u>	<u>None</u>	<u>1979</u>
(2)			<u>Rev. B</u>				
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Remarks:

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these components supports conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition '77, Addenda Summer '77.
Code Case No. 1644-5 (Date)

Date 12-20-79 Signed Pacific Scientific by D. J. Yeager
(NPT Certificate holder)

Our ASME Certificate of Authorization No. 1198 to use the Component Supports
(NPT)

Symbol expires Aug. 4, 1981.
(Date)

CERTIFICATION OF DESIGN

Design Information on File at Pacific Scientific

Stress Report or Load Capacity Data Sheets on File at

Pacific Scientific

Filed Per NA 3256
Design Specifications Certified by (1) Alex Walsenko PE State California

Reg. No. C22,109

Stress Analysis Report or Load Capacity Data Sheets Certified by (1) Leo E. Ay

PE State California Reg. No. 13533

(1) List name only, signature not required.

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

(10/77)

This form (E00078) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by HSBLET Co. of Hartford CT have inspected the component supports described in this Data Report on 12/20

is 29 and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component supports in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 12/20/79

Signed William G. Meyer Commissions N.Y. Commission #2770
(Nat'l Bd., State, Prov., and No.)

CERTIFICATION OF FIELD INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____ of _____

_____ have compared the statements in this Data Report with the described component supports and state that the parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component supports in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date _____

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

ENCLOSURE 3

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT (BFN)
UNIT 3

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), SECTION XI
INSERVICE INSPECTION (ISI) AND REPAIR AND REPLACEMENTS PROGRAMS
SUMMARY REPORTS FOR CYCLE 7 OPERATION

COMMITMENT SUMMARY

TVA will submit a request for relief by August 15, 1997, for BFN Unit 3, to address the reduced nondestructive examination coverage for the ASME, Section XI, Inservice Inspection, reactor pressure vessel head nozzle (N6A) weld.

