

**BROWNS FERRY  
NUCLEAR PLANT**

**UNIT 2 CYCLE 7**

**ASME SECTION XI**

**NIS 1 INSERVICE INSPECTION REPORT**

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

UNIT: TWO    CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERICAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

**UNIT 2 CYCLE 7 NIS-1**  
**“OWNER’S REPORT FOR INSERVICE INSPECTION”**

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# APPENDIX I

## FORM NIS-1 OWNER'S REPORT



TO THE SECRET

OWNER: TENNESSEE VALLEY AUTHORITY    PLANT: BROWNS FERRY NUCLEAR PLANT  
NUCLEAR POWER GROUP                      P.O. BOX 2000  
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**PART 1**

**APPENDIX I**

**NIS-1 OWNER'S REPORT**



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1980-1981

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

Nuclear Power Group, 1101 Market Street

1. Owner Tennessee Valley Authority, Chattanooga, Tennessee 37402  
(Name and Address of Owner)
2. Plant Browns Ferry Nuclear Plant; P. O. Box 2000 Decatur, AL, 35602-2000  
(Name and Address of Owner)
3. Plant Unit Two 4. Owner Certificate of Authorization (if required) Not Required
5. Commercial Service Date 3/01/75 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. 66C31-90744 File No. NIM-1.3.1-1.A	N/A	Not Assigned
Control Rod Drive System Class 1	TVA (Installer)	N/A	N/A	Not Assigned
Core Spray System Class 1	TVA (Installer)	N/A	N/A	Not Assigned
Feedwater System Class 1	TVA (Installer)	N/A	N/A	Not Assigned
High Pressure Coolant Injection System Class 1	TVA (Installer)	N/A	N/A	Not Assigned
Main Steam System Class 1	TVA (Installer)	N/A	N/A	Not Assigned
Reactor Core Isolation Cooling System Class 1	TVA (Installer)	N/A	N/A	Not Assigned
Recirculation System Class 1	TVA (Installer)	N/A	N/A	Not Assigned
Residual Heat Removal System Class 1 & 2	TVA (Installer)	N/A	N/A	Not Assigned
RHR Service Water System Class 1	TVA (Installer)	N/A	N/A	Not Assigned
Reactor Water Clean Up System Class 1	TVA (Installer)	N/A	N/A	Not Assigned
Standby Liquid Control System Class 1	TVA (Installer)	N/A	N/A	Not Assigned
NIS-1 Owner Report for Inservice Inspections includes				
Appendices I, II, III, IV, V, and VI.				
Total Pages - <u>272</u>				

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 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.

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

FORM NIS-1 (BACK)

8. Examination Dates 06/04/93 to 11/23/94 9. Inspection Interval from 5/24/1992 to 5/24/2001

10. Applicable Editions of Section XI 1986 Addenda None

11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Appendix II, III, IV, V. Examinations performed complete the inspection for the first period of the second interval.

12. Abstract of Conditions Noted.  
See Appendix II, III, IV, V, and VI.

13. Abstract of Corrective Measures Recommended and Taken  
See Appendix VI.

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

Certificate of Authorization No. (if applicable) Not Applicable Expiration Date Not Applicable

Date Jan 12 1995 Signed [Signature] By [Signature]  
(Owner) Site Vice President Browns Ferry Nuclear Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENN. and employed by HSBI & I of \_\_\_\_\_ have inspected the components described in this Owner's Report during the period 06/04/93 to 11/23/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB6908 TN 3135  
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan. 18 1995

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OWNER: TENNESSEE VALLEY AUTHORITY    PLANT: BROWNS FERRY NUCLEAR PLANT  
NUCLEAR POWER GROUP                      P.O. BOX 2000  
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CHATTANOOGA, TENNESSEE 37402

UNIT: TWO                                      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERICAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

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

1. Date of document completion:

January 23, 1995

2. Name of owner and address of principal offices:

Tennessee Vally Authority  
Nuclear Power Group  
1101 Market Street  
Chattanooga, Tennessee 37402-2801

3. Name and address of the nuclear generating plant:

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

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

Browns Ferry Nuclear Plant, Unit 2.

5. Commercial operation date of unit:

March 1, 1975.

6. Numbers assigned to the components by the state:

No numbers assigned

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

No numbers assigned

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



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OWNER: TENNESSEE VALLEY AUTHORITY    PLANT: BROWNS FERRY NUCLEAR PLANT  
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NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

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

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

The majority of components examined were supplied by:

General Electric Corporation  
San Jose, Ca.  
Contract Number: 66C31-90744  
File No.:NIM-1.3.1-1.A

10. Date of completion of the examination:  
November 23, 1994

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

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

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

See Appendix II, III, IV, V, and VI. For augmented examinations see Part 2.

13. Signature of ANII:

See NIS-1 form.



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**APPENDIX II**  
**SCOPE (INTRODUCTION)**





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CHATTANOOGA, TENNESSEE 37402

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

PART 1

APPENDIX II

SCOPE

INTRODUCTION

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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
UNIT: TWO	CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.
COMMERCIAL SERVICE DATE: MARCH 1, 1975	
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.	

**Scope:**

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

**Introduction:**

All examinations were performed during the Unit 2/Cycle 7 outage to the implementing plant surveillance instruction 2-SI-4.6.G "Inservice Inspection Program Unit 2". 2-SI-4.6.G is organized to comply with the ISI NDE requirements of the 1986 Edition of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Division 1, Articles 1000, 2000, 3000, and 6000 in accordance with Title 10 Code of Federal Regulations (CFR) Part 50, 50.55a (g); to implement the Browns Ferry Nuclear Plant (BFN) Technical Specifications, Unit 2, Surveillance Requirement 4.6.G; and to fulfill the requirements of SSP-6.10, ASME Section XI Inservice Inspection Program.

2-SI-4.6.G reflects the built-in limitations of the original plant design, geometry, construction, component materials and the current technology or state-of-the-art nondestructive examination techniques. This SI specifies the methods to be used and provides schedule tables from which specific items were scheduled for examination during this outage to conclude the inspections for the 2nd and last scheduled refueling outage of the 1st inspection period of the 2nd interval. All examinations performed in accordance with the ASME Boiler and Pressure Vessel Code, Section XI were witnessed and/or verified by an Authorized Nuclear Inservice Inspector (ANII). The Authorized Inspection Agency (AIA) Hartford Steam Boiler Inspection And Insurance Company provided four ANII's: George Deaton, Neil Jackson, Albert Ladd, and B. J. Rice. The Unit 2/Cycle 7 inservice inspection of the Browns Ferry Nuclear Plant was performed from the period of June 4, 1993 to November 23, 1994.

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



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**APPENDIX III**  
**ISI SUMMARY**



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CHATTANOOGA, TENNESSEE 37402

UNIT: TWO                                      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

PART 1

APPENDIX III

ISI SUMMARY



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**Summary:**

The Unit 2/Cycle 7 Inservice Inspection (ISI) was the last scheduled refueling outage during the first inspection period of the second ASME Section XI 10-year inspection interval. Approximately 158 visual, 64 ultrasonic, 30 liquid penetrant, and 53 magnetic particle examinations were performed for code credit, including additional samples and re-examinations (see Part 1 Appendix V, Examination Scope). Further, approximately 29 visual, 179 ultrasonic, 0 liquid penetrant, and 2 magnetic particle examinations were performed as augmented examinations (e.g.: NUREG-0313, NUREG-0619, etc.) (see Part 2, Augmented Examination Summary). A total of 13 inspection reports (IR's) were issued to document indications identified during the performance of the examinations. These IR's were evaluated by engineering and dispositioned (see Part 1, Appendix VI, Summary of Indications).

The following code cases were utilized during the Unit 2/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-445      Use of Later Editions of SNT-TC-1A for Qualification of Nondestructive Examination Personnel, Section XI, Division 1
- N-457      Qualification Specimen Notch Location for Ultrasonic Examination of Bolts and Studs, Section XI, Division 1
- N-460      Alternative Examination Coverage for Class 1 and Class 2 Welds, Section XI, Division 1
- N-461      Alternative Rules for Piping Calibration Block Thickness, Section XI, Division 1
- N-491      Alternative Rules for Examination of Class 1, 2, 3, and MC Component Supports of Light-Water Cooled Power Plants, Section XI, Division 1
- N-524      Alternate Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping - Section XI, Division 1

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



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UNIT: TWO	CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.
COMMERCIAL SERVICE DATE: MARCH 1, 1975	
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.	

TABLE 1

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

<u>CATEGORY</u>	<u>% COMPLETE</u>	<u>COMMENTS</u>
B-A	25%	Percentage complete of welds not deferred
B-B	N/A	
B-D	31%	
B-E	0%	Deferred to system hydro
B-F	28%	
B-G-1	22%	
B-G-2	31%	
B-H	33%	
B-J	29%	
B-K-1	21%	
B-L-1	N/A	
B-L-2	100%	Examined when disassembled
B-M-1	N/A	
B-M-2	33%	
B-N-1	33%	
B-N-2	0%	Deferral permissible
B-O	0%	Deferral permissible
B-P	-	Refer to pressure test program
B-Q	N/A	
C-A	25%	
C-B	27%	
C-C	23%	
C-D	N/A	
C-F-1	31%	
C-F-2	31%	
C-G	N/A	
C-H	-	Refer to pressure test program
D-A	N/A	
D-B	32%	
D-C	0%	One support in this examination category
F-A	30%	



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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
--	--

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**PERSONNEL/EQUIPMENT CERTIFICATIONS:**

NDE personnel certification records for TVA and contractor employees are maintained by the Corporate Engineering Materials and Inspection Services Organization's (ISO) NDE Certification and Monitoring Group. These records are maintained as permanent Q. A. Records for a forty year plant life. Any details or specifics regarding NDE certification records should be directed to the ISO NDE Certification and Monitoring Staff at the Sequoyah Training Center in Soddy Daisy, Tennessee at telephone number (615)843-4026. Contractor personnel utilized for NDE support were required to pass a proficiency demonstration in each of the applicable NDE disciplines prior to performing field examinations.

NDE equipment certification records are maintained by TVA's Corporate Engineering Materials and Inspection (ISO) staff. Any details or specifics regarding NDE equipment certification records should be directed to ISO at 1100 Riverfront Parkway, Chattanooga, Tennessee at telephone number (615)751-7643.

**EXAMINATION LIMITATIONS:**

A tabulation of NDE examination limitations recorded during the Unit 2/Cycle 7 Inservice Inspection is contained in Part 1, Appendix IV of this report.

The Inservice Inspection Program 2-SI-4.6.G is presently being revised to incorporate these limitations in the form of Requests for Relief. Program revisions, including Requests for Relief, will be submitted to the regulating authorities at a later date.

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**APPENDIX IV**  
**EXAMINATION LIMITATIONS**





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NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

PART 1

APPENDIX IV

EXAMINATION LIMITATIONS

**General:** Effects Of Interference's Or Component Geometry On The Code Required  
Examination Volume Or Area

**Section A:** Ultrasonic Examinations - Piping Welds

**Section B:** Surface Examinations - Piping Welds and Integral Attachments

**Section C:** Ultrasonic Examinations - RPV Nozzle -To - Vessel Welds

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OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT  
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General

Effects of Interference's or Component Geometry on the Code Required Examination  
Volume or Area

During the performance of inservice inspections, the ASME Section XI Code 1986 Edition, no addenda (the Code) requires the determination of the ultrasonic examination volume to establish the required beam path angles needed to maximize coverage and verify technique parameters. Surface examinations are typically conducted on 100% of the weld length plus a defined amount of base material on each side of the weld. The following paragraphs delineate: 1) The requirements used to determine code examination volumes or areas; 2) The effects of interference's or component geometry in reducing examination coverage; 3) The Code and ASME Code Case N-460 compliance.

The Code required ultra-sonic 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.

Paragraph IWA-2232 of the Code requires that the ultrasonic examination of piping systems be conducted in accordance with Appendix III of the Code. This same paragraph requires that the ultrasonic examination of nozzle-to-vessel welds be conducted in accordance with Article 4 of ASME Section V 1986, Edition as amended. Appendix III and Article 4 define, in part, the applicable examination methods (e.g. examination angles, scan directions) to be used during examination. Paragraphs IWA-2221 and IWA-2222 of the Code require that surface examinations be conducted in accordance with Article 6 or 7, as applicable, of ASME Section V 1986 Edition.

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 CHATTANOOGA, TENNESSEE 37402

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COMMERCIAL SERVICE DATE: MARCH 1, 1975

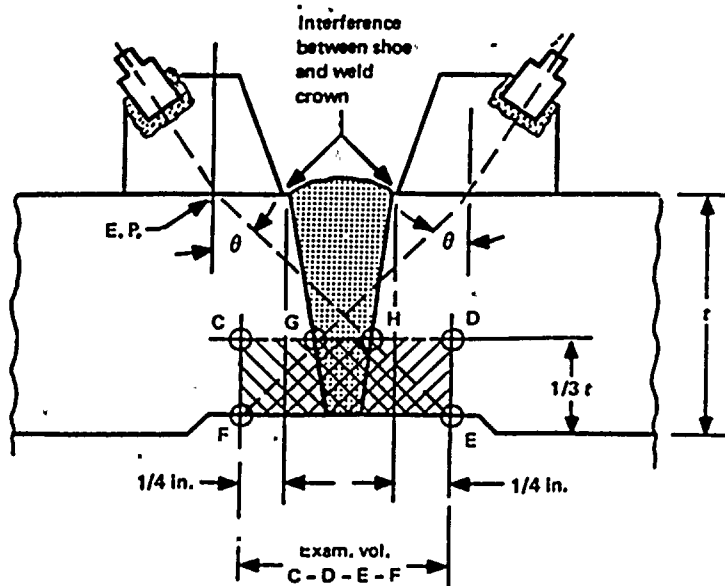
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

General (Continued)

For ultrasonic examination of piping welds, variables such as weld preparation, weld crown width, physical interference, or adjacent component geometry may preclude obtaining two-beam path direction coverage of the complete examination volume with half-V examination from two sides as shown in Fig. III-3230-1 (Figure 1 below). If this interference with examination coverage occurs, the beam path is increased as required to obtain full coverage of the examination volume in two directions. Alternatively, the interference may be eliminated by one or more of the following:

- (1) reducing the dimension of the wedge edge-to-beam entry point;
- (2) reducing the search unit size;
- (3) increasing the beam angle;
- (4) conditioning the weld surface.

FIGURE 1



GENERAL NOTE:

For this example of interference with a 1/2V examination applied from both sides, only the E-F-G-H portion of the examination volume receives two direction coverage, while volumes C-G-F and H-D-E receive one direction coverage. In this case, the examination beam path shall be increased to 3/4V (O.D. to I.D. and back towards O.D. for 1/2 t) to provide the required two direction coverage over the examination volume. Use of a 3/4V examination beam path (O.D. to I.D. to 1/2 t) provides additional beam path (past 1/3 t) to help in obtaining required coverage when examination part thickness t increases.

FIG: III-3230-1 EXAMPLE OF PHYSICAL RESTRICTIONS TO THE PIPING WELD EXAMINATION

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General (Continued)

For ultrasonic examination of piping welds, examination for reflectors parallel to the weld will normally be performed using a sufficiently long examination beam path to provide coverage of the required examination volume in two-beam path directions. The examination will normally be performed from two sides of the weld, where practicable or from one side of the weld, as a minimum.

For ultrasonic examination of piping welds, examination for reflectors transverse to the weld will normally be performed on the weld crown on a single scan path to examine the weld root by one-half V path in two directions along the weld where crowns have been reduced to allow access. If access to the weld crown is restricted or loss of search unit contact occurs (e.g. existing weld crown convexity or concavity), then scanning will be performed adjacent to the weld with the beam path increased to obtain coverage by skewing the search unit sufficiently to cover the weld root area.

Table 1 of this appendix lists ASME Section XI piping welds with ultrasonic examination coverage calculations below that specified by Code Case N-460 (i.e. less than 90%).

For straight beam ultrasonic examination of nozzle-to-vessel welds scanning for interference with angle beam examination will be performed prior to the initial angle beam examination. The base material through which the angle beams will travel will be scanned with a straight beam search unit to detect laminar reflectors which might affect the interpretation of angle beam results. The examination for planar reflectors will be performed on the entire volume of weld and adjacent base material. Wherever feasible, the scanning of the examination volume will be carried out from both sides of the weld on the same surface.

For angle beam ultrasonic examination of nozzle-to-vessel welds, the examination volume will be scanned with angle beam search units directed both at right angles to the weld axis and along the weld axis. Wherever feasible, each examination will be performed in two direction, (i.e., approaching the weld from opposite directions and parallel to the weld from opposite directions). The angle beam search units will be aimed at right angles to the weld axis, with the search unit manipulated so that the ultrasonic beams pass through the entire volume of weld metal. The adjacent base metal in the examination volume must be completely scanned by two angle beams, but need not be completely scanned by both angle beams from both directions (any combination of two angle beams will satisfy the requirements). The angle beam search units will be aimed parallel to the axis of the weld. The search unit will be manipulated so that the ultrasonic beams pass through all of the examination volume. Scanning will be done in two directions 180 deg. to each other to the extent possible. Areas blocked by geometric conditions will be examined from at least one direction, if possible.

For barrel type nozzle-to-vessel weld configurations, scanning was performed from the vessel side and blend radius, where practicable. Scanning from the nozzle taper or boss side with 45° and 60°



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NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

beam angles produced non-favorable sound beam orientation for detection of postulated planar flaws. (The sound beams are almost parallel with the postulated planar flaw, therefore the probability of flaw detection would be minimal.) Likewise, the increase in coverage gained by scanning from the nozzle taper or boss side would not significantly add to the effectiveness of the examinations. Based upon the aforementioned factors, examination from the nozzle taper or boss side was not performed.

Table 2 of this appendix lists ASME Section XI nozzle-to-vessel welds and nozzle inside radii with ultrasonic examination coverage calculations below that specified by Code Case N-460 (i.e. less than 90%).

For surface examinations, variables such as physical interference or adjacent component geometry may preclude coverage of a portion of the examination area (e.g. the weld plus 1/2-inch of base material on each side).

Table 3 of this appendix lists ASME Section XI piping welds and integral attachments with surface examination coverage calculations below that specified by Code Case N-460 (i.e. less than 90%).

In addition, some integral attachment welds received partial surface examination due to limited access and/or interference's. A list of these welds is tabulated below. These welds are to be re-examined to the maximum extent practicable, in a future cycle, after removal of the respective limitation(s)/interference(s).

COMPONENT ID	COVERAGE CALCULATED(%)	REPORT #
2-47B415S0025-IA	21	R-0361
2-47B415H0008-IA	21	R-0362
2-47B415S0023-IA	21	R-0363
2-47B415H0002-IA	88	R-0439
2-47B415H0004-IA	88	R-0440
2-47B415H0006-IA	88	R-0441
2-47B415H0010-IA	88	R-0442
2-47B415H0012-IA	88	R-0443

Several items must be known about the weld under examination as well as the equipment/techniques to be used before coverage reduction calculations can be performed. (For example, the required volume or area to be examined, the length of weld being examined, transducer offsets for automated ultrasonic examinations and the amount/lengths of any examination interference(s).) Most interference's do not affect both sides of a weld and when both sides are affected the effect is sometimes not equal. When a portion of a weld is partially examined, it is necessary to determine the start and stop points for each scan or examination. With



4-00053  
FORM 10-1-64

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the aforementioned items identified, calculations can be made to determine the effect of reduced examination coverage.

ASME Section XI Code Case N-460 defines the statement, "essentially 100% of the weld length" given in the applicable tables of IWB-2500-1 and implied in the applicable tables of IWC-2500-1. The Case allows a reduction in coverage up to 10%. Further, ASME Section XI interpretation XI-1-89-32 clarifies the aforementioned Code Case by re-definition in that exclusions cannot exceed 10% when the limitations from all of the required scans are combined additively. All of the required scans are; therefore, given equal value. This equality methodology is used when calculating the effect(s) of limitations as well as determining compliance with Code Case N-460.

The following components received ultrasonic examination coverage less than 100% but within the 10% reduction allowance specified by Code Case N-460.

SYSTEM	COMPONENT ID	COVERAGE CALCULATED(%)	REPORT #
RHR	RHRG-2-07A	92.2	R-0046
RCIC	TRCIC-2-045	92.5	R-0072
HPCI	THPCI-2-004B	96.5	R-0081
CRD	RCRD-2-A04	97.65	R-0095
CRD	RCRD-2-A06	99.4	R-0096
CRD	RCRD-2-A07	98.8	R-0097
CRD	RCRD-2-B04	99.0	R-0099
HPCI	THPCI-2-017	95.0	R-0114
RHR	RHRG-2-11A	92.0	R-0115
RC	KR-2-13	92.5	R-0184
RPV	N4A-SE	98.0	R-0370
MS	DSMS-2-26	99.7	R-0427

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Section A  
Ultrasonic Examination - Piping Welds

Examination volume coverage calculations are based upon the following suppositions:

- a) For welds with access from both sides, each of the four required scans<sup>1</sup> are equal to 25%.
- b) For welds with access from one side only due to interference/configuration (e.g. pipe to valve), the axial scan (scan 3 or 4) equals 50%<sup>2</sup> and the circumferential scans (scan 5 and 6) each equal 25%.
- c) Examination volume coverage may be increased as previously discussed or by use of refracted longitudinal wave techniques on stainless steel or dissimilar metal welds. Use of refracted longitudinal waves to penetrate stainless steel weld material will increase the examination volume coverage by the amount depicted on the examination coverage drawing.
- d) The effects of adjacent component interference's (e.g. welded lug attachments) along the weld length are also taken into account with the reduction in coverage identified as a percentage of reduced volume. As an example, the following is given:
  - 1) length of weld = 100"
  - 2) length of interference = 5"  
 $5"/100" = .05$  or 5% reduction in coverage, or 95% coverage of the weld length

<sup>1</sup> The required scans are given the following nomenclature: Scan 3, an axial scan on the upstream side of the weld scanning in the downstream direction; Scan 4, an axial scan on the downstream side of the weld scanning in the upstream direction; Scan 5, a circumferential scan scanning in the clockwise direction; Scan 6, a circumferential scan scanning in the counter-clockwise direction.

<sup>2</sup> 50% value is obtained when the beam path is increased, as necessary, to obtain full coverage of the examination volume in two directions.

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### Section C

#### Ultrasonic Examinations - RPV Nozzle-To-Vessel Welds

Examination volume coverage calculations are based upon the following suppositions:

a) To achieve full examination coverage nine different scans are required for each nozzle examination as follows:

- 1) 0° weld metal scan
- 2) 45° T-scan<sup>1</sup> from vessel side of the weld
- 3) 45° T-scan<sup>1</sup> from nozzle side of the weld
- 4) 60° T-scan<sup>1</sup> from vessel side of the weld
- 5) 60° T-scan<sup>1</sup> from nozzle side of the weld
- 6) 45° P-scan<sup>1</sup> CW direction
- 7) 45° P-scan<sup>1</sup> CWW direction
- 8) 60° P-scan<sup>1</sup> CW direction
- 9) 60° P-scan<sup>1</sup> CWW direction

b) Due to the nozzle-to-vessel design geometry generally only seven different scans are feasible. As an example, the following is given:

The total cross-sectional examination volume<sup>2</sup> is calculated which applies to all scans. For this example 75.8 sq. in. is used.

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<sup>1</sup> Scans are given the following nomenclature: T-scan, a transverse scan for parallel reflectors; P-scan, a parallel scan for perpendicular reflectors.

<sup>2</sup> The total cross-sectional examination volume is determined by review of the fabrication drawings.

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Section C (Continued)

<u>Scan Coverage</u>	<u>Type of Scan</u>
10.4 sq. in.	0° weld metal scan
59.1 sq. in.	45° T-scan from vessel side of the weld
59.7 sq. in.	60° T-scan from vessel side of the weld
65.7 sq. in.	45° P-scan CW direction
65.7 sq. in.	45° P-scan CWW direction
65.7 sq. in.	60° P-scan CW direction
<u>65.7 sq. in.</u>	60° P-scan CWW direction
392.0=Total cross-sectional volume examined.	

$75.8 \times 9 = 682.2 =$  Total cross-sectional volume for all required scans.

$392.0 \div 682.2 = .5746 \times 100 = 57.5\% =$  Calculated volume examined.

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**TABLE 1 - ULTRASONIC EXAMINATIONS - PIPING  
BFNP U2/C7 INSERVICE INSPECTION EXAMINATION LIMITATIONS**

SYSTEM	WELD # OR COMP. I.D.	LIMITATION	REASON	% COVERAGE	REPORT #
RWCU	DRWC-2-01A	LIMITED SCANS 3 & 4	SADDLE TO VALVE WELD CONFIGURATION DESIGN.	72	R-0154
RC	KR-2-01	NO SCAN 3 & LIMITED SCANS 4, 5, 6	PIPE TO BRANCH CONNECTION WELD CONFIGURATION DESIGN.	32	R-0195



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**TABLE 2 - ULTRASONIC EXAMINATIONS - RPV NOZZLES  
 BFNP U2/C7 INSERVICE INSPECTION EXAMINATION LIMITATIONS**

SYSTEM	WELD # OR COMP. I.D.	LIMITATION	REASON	% COVERAGE	REPORT #
RPV	N1A	LIMITED 0 deg. SCAN. LIMITED 45 & 60 deg. AXIAL AND CIRCUMFERENTIAL SCANS FROM VESSEL SIDE. NO SCANS PERFORMED FROM NOZZLE SIDE	NOZZLE TO VESSEL WELD DESIGN, BIOSHIELD, AND THERMO-COUPLE	60	BF2-1001
RPV	N2B	LIMITED 0 deg. SCANS. LIMITED AUTO 45 & 60 deg. AND MANUAL 60 deg. AXIAL SCANS FROM VESSEL SIDE. NO SCANS PERFORMED FROM NOZZLE SIDE.	NOZZLE TO VESSEL WELD DESIGN AND INSULATION	52	BF2-1021
RPV	N2F	LIMITED 0 deg. SCANS. LIMITED 60 deg. AXIAL SCANS FROM VESSEL SIDE. NO SCANS PERFORMED FROM NOZZLE SIDE	NOZZLE TO VESSEL WELD DESIGN AND INSULATION	55	BF2-1023
RPV	N2J	LIMITED 0 deg. SCANS. LIMITED 60 deg. AXIAL SCANS FROM VESSEL SIDE. NO SCANS PERFORMED FROM NOZZLE SIDE	NOZZLE TO VESSEL WELD DESIGN AND INSULATION	55	BF2-1025
RPV	N3D	LIMITED 0 deg. SCANS. LIMITED 45 & 60 deg. SCANS FROM VESSEL SIDE. NO SCANS PERFORMED FROM NOZZLE SIDE	NOZZLE TO VESSEL WELD DESIGN.	57	BF2-1003
RPV	N4A	LIMITED 0, 45, & 60 deg. SCANS FROM VESSEL SIDE. NO SCANS PERFORMED FROM NOZZLE SIDE	NOZZLE TO VESSEL WELD DESIGN, N11A NOZZLE, INSULATION SUPPORT RING	59	BF2-1006
RPV	N4F	LIMITED 0, 45, & 60 deg. AUTO SCAN AND MANUAL 60 deg. AXIAL SCANS FROM VESSEL SIDE. NO SCANS PERFORMED FROM NOZZLE SIDE.	NOZZLE TO VESSEL WELD DESIGN, INSULATION SUPPORT RING	54	BF2-1005
RPV	N5A	LIMITED 0, 45, & 60 deg. SCANS FROM VESSEL SIDE. NO SCANS PERFORMED FROM NOZZLE SIDE.	NOZZLE TO VESSEL WELD DESIGN, INSULATION SUPPORT RING	53	BF2-1027
RPV	N8A	LIMITED 0, 45, & 60 deg. SCANS FROM VESSEL SIDE. NO SCANS PERFORMED FROM NOZZLE SIDE.	NOZZLE TO VESSEL WELD DESIGN	68	BF2-1008
RPV	N8A-IR	LIMITED 60 & 70 deg. ZONE 1, AND 80 deg. ZONE 2A SCANS.	NOZZLE TO VESSEL WELD DESIGN CONFIGURATION	73	BF2-1011



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**APPENDIX V**  
**EXAMINATION PLANT (SCOPE)**



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**PART 1**

**APPENDIX V**

**EXAMINATION SCOPE**



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The following printout is known as an Outage ISI report designed to meet the reporting requirements of IWA-6000 of the ASME Section XI Code. This report contains Unit 2/Cycle 7 inservice inspection data for Class 1 and Class 2 components. 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 and component drawings.

Note: Unit and system files for other augmented and voluntary examinations are contained under this section and should be referenced to describe abbreviations used throughout this report.

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

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM *
*                               SYSTEM                      *
*                               REFERENCE CLUSTER LISTING  *****
*                               DATA ELEMENT : AGENCY      * PAGE 16 *
*                               * REVISION 0000 *
*                               * DATE 11/04/94 *
*****

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REFERENCE KEY	DESCRIPTION
WYLP	WYLE LABORATORIES PLANT SERVICES DIVISION WASHINGTON BUSINESS PARK 9701-R PHILADELPHIA COURT LANHAM, MD. 20706 (301) 731-4777 CONTACT: JOHN L. CASON
ZTEC	ZETEC INC. P. O. BOX 140 ISSAQUAH, WA. 98027 (206) 392-5316 CONTACT: AL LUCERO

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UNIT: TWO                                      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM *
*                               SYSTEM                      *
*                               REFERENCE CLUSTER LISTING  *****
*                               DATA ELEMENT : CALSTD      * PAGE 17 *
*                               * REVISION 0000 *
*                               * DATE 11/04/94 *
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REFERENCE KEY	MATERIAL	DIMENSION 1 VALUE UNITS	DIMENSION 2 VALUE UNITS	DIMENSION 3 VALUE UNITS	HEAT NUMBER
AA01	LMT CALIBRATION STANDARD				
ASME	----- DIA ----- SCH ----- THICK ----- CALIBRATION STANDARD TO BE USED IN ACCORDANCE WITH ASME SECTION XI REQUIREMENTS.				
ASME#P	----- DIA ----- SCH ----- THICK ----- CALIBRATION STANDARD TO BE USED IN ACCORDANCE WITH ASME SECTION XI REQUIREMENTS, MULTI-PURPOSE.				
BASKET	BASE METAL OF COMPONENT WELD USED AS CALIBRATION STANDARD---				
BF-01	A-106	4.00 DIA	80	SCH 0.326 THK	
BF-02	A-358	4.00 DIA	80	SCH 0.332 THK	
BF-03	A-106	10.00 DIA	40	SCH 0.375 THK	
BF-04	A-358	6.00 DIA	140	SCH 0.752 THK	
BF-05	A-106	10.00 DIA	100	SCH 0.730 THK	
BF-06	A-358	8.00 DIA	100	SCH 0.767 THK	
BF-07	A-106	14.00 DIA	80	SCH 0.698 THK	
BF-08	A-240	16.00 LTH	2.00 WTH	1.525 THK	
BF-09	A-36	16.00 LTH	2.00 WTH	1.440 THK	



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* NUTECH                                PRISM *
*                                     *
* TENNESSEE VALLEY AUTHORITY          *
* SYSTEM                               *
*                                     *
* REFERENCE CLUSTER LISTING           *****
* DATA ELEMENT : CALSTD              * PAGE 18 *
*                                     * REVISION 0000 *
*                                     * DATE 11/04/94 *
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REFERENCE KEY	MATERIAL	DIMENSION 1		DIMENSION 2		DIMENSION 3		HEAT NUMBER
		VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	
BF-10	A-533	48.00	LTH	8-12	WTH	4.000	THK	
BF-100	SA-106	24.00	DIA	CS PIPE, SCH		0.375	THICK	L21907 (GR B)
BF-101	SA-106	24.00	DIA	CS PIPE, SCH		0.500	THICK	L04841 (GR B)
BF-102	SA-106	24.00	DIA	CS PIPE, SCH		1.531	THICK	K4687 (GR B)
BF-103	SA-106	24.00	DIA	CS PIPE, SCH		2.500	THICK	110272 (GR B)
BF-104	SA-106	26.00	DIA	PIPE -- SCH		0.950	THICK	174874 (GR B)
BF-105	SA-106	30.00	DIA	CS PIPE, SCH		0.375	THICK	1G2780 (GR B)
BF-106	SA-508	10.00	SPRAY	NOZ. - SCH		1.358	THICK	H-90 CL2
BF-107	SA-508	---	DIA	---- SCH		1.737	THICK	RECIRC OUT NOZ H-90 CL2
BF-108	SA-106	24.00	DIA	CS PIPE, SCH		1.218	THICK	160557 (GR B)
BF-109	SA-533	6.60	DIA	---- SCH		6.600	THICK	VES. BLOCK
BF-11	A-515	23.00	LTH	6.50	WTH	4.000	THK	
BF-110	CAL STUD							
BF-111	SA-376	00.75	DIA	80	SCH	0.154	THICK	(AH6493)
BF-112	SA-376	01.00	DIA	80	SCH	0.179	THICK	(9E6098)

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* NUTECH                                PRISM *
*                                     *
* TENNESSEE VALLEY AUTHORITY          *
* SYSTEM                               *
*                                     *
* REFERENCE CLUSTER LISTING           *****
* DATA ELEMENT : CALSTD              * PAGE 19 *
*                                     * REVISION 0000 *
*                                     * DATE 11/04/94 *
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REFERENCE KEY	MATERIAL	DIMENSION 1		DIMENSION 2		DIMENSION 3		HEAT NUMBER
		VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	
BF-113	SA-376	01.25	DIA	80	SCH	0.191	THICK	(9E6098)
BF-114	SA-376	01.50	DIA	80	SCH	0.200	THICK	(9E5851)
BF-115	SA-376	02.00	DIA	40	SCH	0.154	THICK	(K31307)
BF-116	SA-376	03.50	DIA	80	SCH	0.300	THICK	(V00037)
BF-117	SA-376	04.50	DIA	80	SCH	0.337	THICK	(9E6295)
BF-118	SA-376	06.65	DIA	80	SCH	0.432	THICK	(24540)
BF-12	A-515	12.00	LTH	3.00	WTH	2.250	THK	
BF-13	A-437	2.37	DIA	69.50	LTH	STUD	THK	
BF-14	NOT USED							
BF-15	A-519	10.00	DIA	160	SCH	1.530	THK	
BF-16	SA-533	20.80	LTH	10.00	WTH	9.250	THK	
BF-17	NOT USED							
BF-18	A-533	24.00	LTH	6.00	WTH	6.125	THK	
BF-19	SA-533	24.00	LTH	6.00	WTH	4.016	THK	
BF-20	AISI4340	6.00	DIA	36.00	LTH	STUD	THK	



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REFERENCE KEY	MATERIAL	DIMENSION 1		DIMENSION 2		DIMENSION 3		HEAT NUMBER
		VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	
BF-51	TP-304	12.00	DIA	100	SCH	0.947	THK	
BF-52	SA-240	20.00	DIA	60	SCH	VARIES	THK	
BF-53	TP-304	6.00	DIA	160	SCH	1.122	THK	
BF-54	TP-304	6.00	DIA	160	SCH	1.328	THK	
BF-55	SA-240	12.00	LTH	6.00	WTH	1.910	THK	
BF-56	A-106	14.00	DIA	100	SCH	0.938	THK	
BF-57	304L	20.00	LTH	4.87	WTH	1.269	THK	
BF-58	SA-106	1.00	DIA	160	SCH	0.222	THK	
BF-59	SA-182F	5.00	DIA			0.923	THK	
BF-60	SA-312	5.00	DIA	XXS	SCH	0.758	THK	
BF-61	A312 304	6.00	DIA	120	SCH	0.576	THK	
BF-62	A285	6.00	DIA	160	SCH	0.700	THK	
BF-63	SA-312	6.00	DIA	160	SCH	0.840	THK	
BF-64	TP-304	2.00	DIA	160	SCH	0.375	THK	
BF-65	SA-376	12.00	DIA	160	SCH	1.345	THK	

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REFERENCE KEY	MATERIAL	DIMENSION 1		DIMENSION 2		DIMENSION 3		HEAT NUMBER
		VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	
BF-66	SA-312	4.00	DIA	XXIVY	SCH	0.685	THK	
BF-67	SA-376	14.00	DIA	160	SCH	1.339	THK	
BF-68	AD.BRASS	0.86	DIA	12.50	LTH	0.046	THK	
BF-69	CARBON	10.00	LTH	02.00	WTH	0.950	THK	
BF-69A	CARBON	10.00	LTH	02.00	WTH	0.900	THICK	
BF-70							NOT USED	
BF-71	SA-358	12.00	DIA	80	SCH	VARIES	THK	
BF-72	A508 CL.2 CLAD BLOCK FOR NOZZLES					1.320	THK	
BF-73	RPV STUD BLK.	06.00	DIA	ASTM A540778858				
BF-74	SA-106	20.00	DIA	20	SCH	0.187	THICK	
BF-75	SA-106	12.00	DIA	80	SCH	0.688	THICK	
BF-76	SA-508	5.38	DIA	12	SCH	0.846	THICK	
BF-77	SA-106	16.00	DIA	30	SCH	0.375	THICK	
BF-79	SA-358	12.75	DIA	80	SCH	0.6910	THK	
BF-80	SA 376	6.625	DIA	80	SCH	0.860	THK	



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REFERENCE KEY	MATERIAL	VALUE	UNITS	DIMENSION 1	DIMENSION 2	DIMENSION 3	HEAT NUMBER
BF-81	SA-508CL2	O.D.	HIR	BLOCK		VARIES THK	
BF-82	A-358	28.00		DIA PIPE SEGMENT		1.250 THICK	
BF-83	A-358	28.00		DIA PIPE SEGMENT		VARIES THK	
BF-84	SA-508 CL2	---	---	---	---	THICK VARIES, H90	
						N1, N2, N3, NOZZLE IR	
BF-85	SA-508 CL2	--	DIA	---	SCH	THICK VARIES, H90	
						N2, N5, N9 NOZZLE IR	
BF-86	SA-508 CL2	--	DIA	---	SCH	THICK VARIES, H90	
						N8 NOZ IR CLAD	
BF-87	SA-376	20.00		SS PIPE	SCH	1.031 THICK	D471903
	SA-376			TP 316			
BF-88	SA-376	22.00		DIA PIPE	SCH	1.031 THICK	D431503
	SA-376			TP 316			
BF-89	SA-376	24.00		DIA SS PIPE,	SCH	1.285 THICK	D433104
	SA-376			TP 316			
BF-90	SA-376	28.00		DIA SS PIPE,	SCH	1.440 THICK	D441203
	SA-376			TP 316			
BF-91	SA-106	06.00		DIA CS PIPE,	SCH	0.562 THICK	A82937
	SA-106			GR B			

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REFERENCE KEY	MATERIAL	VALUE	UNITS	DIMENSION 1	DIMENSION 2	DIMENSION 3	HEAT NUMBER
BF-92	SA-106	08.00		DIA CS PIPE,	SCH	0.322 THICK	L84521
	SA-106			GR B			
BF-93	SA-106	12.00		DIA CS PIPE,	SCH	0.843 THICK	67790 (GR B)
BF-94	SA-106	16.00		DIA CS PIPE,	SCH	1.031 THICK	7L183 (GR B)
BF-95	SA-106	18.00		DIA CS PIPE,	SCH	0.312 THICK	N28454 (GR B)
BF-96	SA-106	18.00		DIA CS PIPE,	SCH	0.500 THICK	N26518 (GR B)
BF-97	SA-106	18.00		DIA CS PIPE,	SCH	0.938 THICK	N95312 (GR B)
BF-98	SA-106	20.00		DIA CS PIPE,	SCH	0.500 THICK	L40376 (GR B)
BF-99	SA-106	20.00		DIA CS PIPE,	SCH	1.281 THICK	L60134 (GR B)
BKP-01	AISI4340	4.00		DIA	21.00 LTH	STUD THK	
BKP-02	SA-106	6.00		DIA	120 SCH	0.602 THK	
BKP-03	A-106	8.00		DIA	100 SCH	0.638 THK	
BKP-04	SA-106	8.00		DIA	120 SCH	0.715 THK	
BKP-05	SA-106	10.00		DIA	100 SCH	0.745 THK	
BKP-06	SA-106	16.00		DIA	120 SCH	1.306 THK	
BKP-07	SA-312	6.00		DIA	STD SCH	0.269 THK	

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REFERENCE KEY	VALVE COMPONENT DESCRIPTION
A	+ ***** VALVES ***** + EXAMINATION CATEGORIES B-H-1, B-H-2, AND C-G +
AVALINT	VAL INT VALVE INTERNAL (INSIDE) SURFACES
AVBW	VAL BDY VALVE BODY WELD, PRESSURE RETAINING WELD IN THE VALVE BODY OR VALVE BONNET.

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

REFERENCE KEY	BOLTING COMPONENT DESCRIPTION
B	+ ***** BOLTS ***** + EXAMINATION CATEGORIES B-G-1, B-G-2, AND C-D +
BBOLTS	BOLTS BOLTING, B-G-2, IE: CRD BOLTING
BCHBLTG	CH BLTG REACTOR VESSEL CLOSURE HEAD BOLTING (B-G-1) (STUDS, NUTS, WASHERS, OR BUSHINGS)
BFLG	FLGBLTG FLANGE BOLTING (B-G-2)
BFLGCL	CL BLTG GRAYLOC FLANGE CONNECTOR BOLTING
BFLGSUR	FLG SUR FLANGE SURFACE (B-G-1)
BFLGT	FLG THR FLANGE THREADS (B-G-1)
BLIG	LIGAMNT LIGAMENT (B-G-1) LIGAMENT APPEARS IN THE OLDER EDITIONS OF THE CODE. THE NEW TERM IS FLANGE SURFACE FOR THE 1" ANNULUS @ EACH STUD.
BHWAY	MW BLTG MANWAY BOLTING (B-G-2, C-D)



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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                               SYSTEM                        *
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REFERENCE KEY BOLTING COMPONENT DESCRIPTION

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BPUMP      PKPBLTG
           PUMP BOLTING (B-G-1, B-G-2)

BVAL      VALBLTG
          VALVE BONNET BOLTING (B-G-2)

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

UNIT: TWO                                CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERICAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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*****
* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                               SYSTEM                        *
*                               REFERENCE CLUSTER LISTING    *****
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REFERENCE KEY PRESSURE TESTING ZONE COMPONENT DESCRIPTION

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E          +-+-----+PRESSURE TESTING ZONES+-----+
          + EXAMINATION CATEGORIES B-P, C-H, D-A, D-B, AND D-C +

E-HYDRO   . HYDRO
          PRESSURE RETAINING COMPONENTS SYSTEM HYDRO

E-LEAK    LEAKAGE
          PRESSURE RETAINING COMPONENTS SYSTEM LEAKAGE

EEX75S    EX COMP
          COMPONENTS EXEMPT FROM ALL SECTION XI NON-DESTRUCTIVE
          EXAMINATION EXCEPT VT-2.

EEX78S    EX COMP
          COMPONENTS EXEMPT FROM ALL SECTION XI NON-DESTRUCTIVE
          EXAMINATION EXCEPT VT-2.

EZONE,O   OP ZONE
          OPERATIONAL PRESSURE TESTING ZONE.

EZONE,S   ST ZONE
          STATIC PRESSURE TESTING ZONE.

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM *
*                               SYSTEM                        *
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REFERENCE KEY HANGERS (ALL TYPES INCLUDING SNUBBERS) COMPONENT DESCRIPTION

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H          +
          +-----+HANGERS (SUPPORTS)+-----+
          +EXAMINATION CATEGORIES B-H, B-K-2, C-E, D-A, D-B, AND D-C +
HANCHOR    ANCHOR
           RIGID ANCHOR HANGER
HANCOR2    ANCHOR2
           RIGID ANCHOR HANGER (2)
HANCOR3    ANCHOR3
           RIGID ANCHOR HANGER (3)
HCF        C FORCE
           CONSTANT FORCE SUPPORT (PIPING)
HCF2       CFORCE2
           TWO CONSTANT FORCE SUPPORTS (PIPING)
HGR        HGR UNK
           HANGER, TYPE UNKNOWN
HHS        H SHUB
           HYDRAULIC SNUBBER (PIPING)
HHS2       HSNUB-2
           TWO HYDRAULIC SNUBBERS
HMS        H SHUB
           MECHANICAL SNUBBER OR SHOCK ARRESTOR (PIPING)

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

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM *
*                               SYSTEM                        *
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REFERENCE KEY HANGERS (ALL TYPES INCLUDING SNUBBERS) COMPONENT DESCRIPTION

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HMS2       MSHUB-2
           TWO MECHANICAL SNUBBERS OR SHOCK ARRESTORS
HPHP       PHP SUP
           PUMP SUPPORT
HRH        RIG HGR
           RIGID HANGER (PIPING)
HRH2       RIGHGR2
           2 RIGID HANGERS, (PIPING)
HRH3       RIGHGR3
           RIGID HANGERS 3 (PIPING)
HRH4       RIGHGR4
           RIGID HANGERS 4 (PIPING)
HRRSW      W RIG S
           WELDED RIGID STRUT (PIPING)
HRS        R STRUT
           RIGID STRUT (PIPING)
HRS2       RIGSTR2
           2 RIGID STRUTS, (PIPING)
HRS3       RIGSTR3
           RIGID STRUT HANGERS (3)

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REFERENCE KEY HANGERS (ALL TYPES INCLUDING SNUBBERS) COMPONENT DESCRIPTION

HSADLE	PSADDLE PIPE SADDLE
HSUPH	H SUP MECHANICAL SUPPORT TYPE UNKNOWN
HSUPH	W SUP WELDED SUPPORT TYPE UNKNOWN
HVAL	VAL SUP VALVE SUPPORT
HVARW	H VAR S WELDED VARIABLE SUPPORT (PIPING)
HVES	VES SUP VESSEL, TANK, OR HEAT EXCHANGER SUPPORT
HVS	VSPRING VARIABLE SPRING (PIPING)
HVS2	HVSPG 2 TWO VARIABLE SPRINGS
HMWP	WHIPRES WHIP RESTRAINT

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

REFERENCE KEY PIPING COMPONENT DESCRIPTION

P	***** PIPING ***** ** EXAMINATION CATERGORIES B-F, B-J, B-K-1, C-F, AND C-H **
PBC,	**** A BRANCH CONNECTION WITHOUT CIRCUMFERENTIAL WELDS ON ** *** MAIN PIPING RUN **
PBC,A	BR CONN BRANCH CONNECTION
PBC,E	ELBOWLT ELBOWLET
PBC,HC	HALFCPL HALF COUPLING
PBC,LOL	LATROLT LATEROLET
PBC,LSP	LSWEEPT LATERAL SWEEPOLET
PBC,P	PIPE
PBC,S	SOCKOLT SOCKOLET
PBC,SWP	SWPOLET SWEEPOLET
PBC,T	THREDLT THREADOLET

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM *
*                               SYSTEM                        *
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REFERENCE KEY	PIPING COMPONENT DESCRIPTION
PBC,TE	THERWLD TEMPERATURE ELEMENT WELD
PBC,VLV	VALVE VALVE
PBC,W	WELDOLT WELDOLET
PBCC,	+++ A BRANCH CONNECTION WITH CIRCUMFERENTIAL WELDS ON +++ +++ MAIN PIPING RUN +++
PBCC,BR	BR CONN BRANCH CONNECTION
PBCC,CR	CROSS
PBCC,EX	EXTRUD PIPE EXTRUSION
PBCC,L	LATERAL
PBCC,T	TEE
PBCC,TR	RED TEE REDUCING TEE
PC,	+++ CIRCUMFERENTIAL PIPING WELD +++
PC,ALGN	AL BEAD ALIGNMENT BEAD

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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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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*****
* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM *
*                               SYSTEM                        *
*                               REFERENCE CLUSTER LISTING    *****
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REFERENCE KEY	PIPING COMPONENT DESCRIPTION
PC,BMTL	BASENTL BASE METAL (IE: BETWEEN WELDS)
PC,BOSS	BOSS BOSS WELD
PC,BOX	CONTINU CONTINUATION FROM END OF ISOMETRIC DRAWING
PC,CAP	CAP
PC,DBED	DRWBEAD DRAW BEAD WELD
PC,EL	ELBOW
PC,ER	EX RED EXCENTRIC REDUCER
PC,EXPJ	EXP JNT EXPANSION JOINT
PC,FE	FLOW EL FLOW ELEMENT
PC,FH	FL HEAD FLUED HEAD WELDS
PC,FORK	TLTFORK THERMO LINING TUNING FORK

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REFERENCE KEY	PIPING COMPONENT DESCRIPTION
PC,GL	GRAYLOC GRAYLOC FLANGE CONNECTOR
PC,HDR	HEADER
PC,HX	HT EXCH HEAT EXCHANGER
PC,MAN	HANIFLD MANIFOLD
PC,NOZ	NOZZLE
PC,OVLY	OVERLAY PIPING OVERLAY WELD
PC,PIPE	PIPE
PC,PUMP	PUMP
PC,RED	REDUCER
PC,RELB	RED ELB REDUCING ELBOW
PC,SE	SAFEEND SAFE END
PC,SP	SPOOL P SPOOL PIECE

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

UNIT: TWO                                  CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REFERENCE KEY	PIPING COMPONENT DESCRIPTION
PC,TEE	TEE
PC,THSLV	THIER SL THERMAL SLEEVE
PC,TP	TRANS P TRANSITION PIECE
PC,VENC	VENTURI CAVITATING VENTURI
PC,VLV	VALVE
PE,	+++ ELBOWS +++
PE,EL	ELBOW ELBOW, RADIUS UNKNOWN
PE,ELR	ELB ELR ELBOW, EXTRA LONG RADIUS
PE,LR	ELB LR ELBOW, LONG RADIUS
PE,RED	RED ELB REDUCING ELBOW
PE,SR	ELB SR ELBOW, SHORT RADIUS

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                               SYSTEM                        *
*                               REFERENCE CLUSTER LISTING    *****
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REFERENCE KEY	PIPING COMPONENT DESCRIPTION
PF,	+++ FLANGES +++
PF,AFL	ANCHOR FLANGE
PF,B	FLG BLN FLANGE, BLIND
PF,FLG	FLG FLANGE, TYPE UNKNOWN
PF,O	FLG ORF FLANGE, WELD NECK ORIFICE
PF,RED	FLG RED FLANGE, REDUCING
PF,SO	FLG SLP FLANGE, SLIP ON
PF,SH	+++ FLANGE,(SOCKET WELDED SHOULD BE ENTERED AS PSW)+++
PF,WN	FLG WN FLANGE, WELD NECK
PI	+++ INTEGRALLY WELDED ATTACHMENTS +++ EXAMINATION CATEGORIES B-K-1 AND, C-C
PI,FH	FLUE HD FLUED HEAD

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OWNER: TENNESSEE VALLEY AUTHORITY  
NUCLEAR POWER GROUP  
1181 MARKET STREET  
CHATTANOOGA, TENNESSEE 37402

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
COMMERCIAL SERVICE DATE: MARCH 1, 1975  
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                               SYSTEM                        *
*                               REFERENCE CLUSTER LISTING    *****
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REFERENCE KEY	PIPING COMPONENT DESCRIPTION
PI,IWA	IWA INTEGRALLY WELDED ATTACHMENT
PI,LUC	LUC LUG(S)
PI,PIPE	IWAPIPE INTEGRALLY WELDED ATTACHMENT UTILIZING A PIPE SEGMENT
PI,SADL	SADDLE
PI,STAN	STANCHN STANCHION
PI,TRUN	TRUNNON TRUNNION
PLSW,	+++ LONGITUDINAL SEAM WELDS +++
PLSW,C	CRSSEAM LONGITUDINAL SEAM WELD, CROSS
PLSW,E	ELBSEAM LONGITUDINAL SEAM WELD, ELBOW
PLSW,H	L/S HDR LONG SEAM, HEADER
PLSW,P	LNGSEAM LONGITUDINAL SEAM WELD, PIPE

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M  KUTECH                TENNESSEE VALLEY AUTHORITY          PRISIM  M
M                                     SYSTEM                      M
M                                     REFERENCE CLUSTER LISTING  *****
M                                     DATA ELEMENT : COMPDES  M PAGE      58 M
M                                     M REVISION 0000 M
M                                     M DATE    11/04/94 M
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REFERENCE KEY	PIPING COMPONENT DESCRIPTION
PLSW,R	REDSEAM LONGITUDINAL SEAM WELD, REDUCER
PLSW,RE	RELSEAM LONGITUDINAL SEAM WELD, REDUCING ELBOW
PLSW,S	ST BEAD STRESS BEAD WELD
PLSW,T	TEESEAM LONGITUDINAL SEAM WELD, TEE
PP,	+++ PENETRATION COMPONENTS +++ + USE PI, FH FOR INTEGRAL ATTACHMENT FLUED HEADS +
PP,ENDP	PPLATE PENETRATION END PLATE
PP,FH	FL HEAD FLUED HEAD
PP,PIPE	PENPIPE PENETRATION PIPE (THE PIPE SUPPLIED BY THE CONTAINMENT SUPPLIER RATHER THAN THE PIPING SUPPLIER)
PP,TRP	PENPLT TORUS SHELL PENETRATION REINFORCEMENT PLATE
PSW,	+++ SOCKET WELDS +++

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

UNIT: TWO                                CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERICAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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M  KUTECH                TENNESSEE VALLEY AUTHORITY          PRISIM  M
M                                     SYSTEM                      M
M                                     REFERENCE CLUSTER LISTING  *****
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REFERENCE KEY	PIPING COMPONENT DESCRIPTION
PSW,AFL	ANCHOR FL ANCHOR FLANGE
PSW,BOX	UNK CONT. UNKNOWN CONTINUATION SHOWN ON ISOMETRIC
PSW,C	CAP
PSW,CPL	COUPLNG COUPLING
PSW,CPR	RCUPLNG REDUCING COUPLING
PSW,EL	ELBOW
PSW,FL	FLANGE
PSW,FLO	ORIFICE FLANGE, ORIFICE
PSW,HC	HLF CUP HALF COUPLING
PSW,MAN	MANIFLD MANIFOLD
PSW,P	PIPE
PSW,RED	REDUCER

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REFERENCE KEY BWR VESSEL INTERNAL COMPONENT DESCRIPTION

SHIRCHI	CHI NIR CLOSURE HEAD INSTRUMENTATION NOZZLE INNER RADIUS
SHIRCRD	CRD NIR CONTROL ROD DRIVE HYDRAULIC RETURN NOZZLE INNER RADIUS
SHIRCS	CS NIR CORE SPRAY NOZZLE INNER RADIUS
SHIRFW	FW NIR FEEDWATER NOZZLE INNER RADIUS
SHIRHS	HS NIR HEAD SPRAY NOZZLE INNER RADIUS
SHIRJPI	JPI NIR JET PUMP INSTRUMENT NOZZLE INNER RADIUS
SHIRHS	MS NIR MAIN STEAM NOZZLE INNER RADIUS
SHIRRCI	RCI NIR RECIRCULATION INLET NOZZLE INNER RADIUS
SHIRRCO	RCO NIR RECIRCULATION OUTLET NOZZLE INNER RADIUS
SHOZCHI	CHI NOZ CLOSURE HEAD INSTRUMENTATION NOZZLE

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

UNIT: TWO                                 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REFERENCE KEY BWR VESSEL INTERNAL COMPONENT DESCRIPTION

SHOZCRD	CRD NOZ CONTROL ROD DRIVE HYDRAULIC RETURN NOZZLE
SHOZCS	CS NOZ CORE SPRAY NOZZLE
SHOZFW	FW NOZ FEEDWATER NOZZLE
SHOZFWB	NOZBORE FEEDWATER NOZZLE BORE
SHOZHS	HS NOZ HEAD SPRAY NOZZLE
SHOZINS	INS NOZ INSTRUMENTATION NOZZLE
SHOZJPI	JPI NOZ JET PUMP INSTRUMENT NOZZLE
SHOZLCH	LCH NOZ LIQUID CONTROL NOZZLE
SHOZHS	MS NOZ MAIN STEAM NOZZLE
SHOZRCI	RCI NOZ RECIRCULATION INLET NOZZLE

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NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM
N                      SYSTEM                               N
N                      REFERENCE CLUSTER LISTING          N
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N                      N DATE        11/04/94 N
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REFERENCE KEY                    BWR VESSEL INTERNAL COMPONENT DESCRIPTION

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SN0ZRCO            RCO NOZ
                  RECIRCULATION OUTLET NOZZLE

SN0ZSLC            SLC NOZ
                  STANDBY LIQUID CONTROL NOZZLE

SN0ZVDG            VDG NOZ
                  VENT AND DEGAS NOZZLE

SPARGER            SPARGER
                  CORE SPRAY SPARGERS

SRISER             RISER
                  JET PUMP RISER BRACES

SRVPEN             RPV PEN
                  REACTOR VESSEL PENETRATION WELD

SSE                SAFEEND
                  SAFEENDWELD

SSHLL              SHELL
                  RPV SHELL WELD

SSUP               SUPPORT
                  RV SUPPORT SKIRT

STBOX              TEE BOX

STUBE              DRY TUBE

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

UNIT: TWO                                CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM
N                      SYSTEM                               N
N                      REFERENCE CLUSTER LISTING          N
N                      DATA ELEMENT : COMPDES            N
N                      N PAGE          69 N
N                      N REVISION     0000 N
N                      N DATE        11/04/94 N
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REFERENCE KEY                    BWR VESSEL INTERNAL COMPONENT DESCRIPTION

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SUREAD            UP HEAD
                  UPPER HEAD

SWELD             WELD
                  REPAIR WELD

SWELDS            WELDS

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISM *
*                                     SYSTEM                                *
*                                     REFERENCE CLUSTER LISTING          *****
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REFERENCE KEY	PWR VESSEL (OTHER THAN INTERNALS) COMPONENT DESCRIPTION
VLSH	VES LSHLL LONGTITUDINAL SHELL WELD
VHWAY	VES HMY VESSEL MANWAY
VNIR	VES NIR NOZZLE INNER RADIUS
VNOZ	VES NOZ NOZZLE
VPEN	VES PEN PENETRATION
VSE	V SFEND VESSEL SAFE END
VSHLL	VES SHL SHELL
VTUBING	VES TUB STEAM GENERATOR TUBING
VTUBSHT	VTUBSHT VESSEL TUBE SHEET

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2060  
 DECATUR, ALABAMA 35602

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISM *
*                                     SYSTEM                                *
*                                     REFERENCE CLUSTER LISTING          *****
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REFERENCE KEY	BWR VESSEL (OTHER THAN INTERNALS) COMPONENT DESCRIPTION
W	+++++ PRESSURE VESSELS +++++ +++++ (EXCEPT REACTOR VESSEL) +++++ +++ EXAMINATION CATEGORIES B-B, B-C, B-D, B-E, +++ +++++ B-F, B-H, C-A, C-B AND C-C +++++
WFLG	FLANGE VESSEL FLANGE, EXCEPT REACTOR VESSEL
WHEAD	HEAD VESSEL HEAD WELD, EXCEPT REACTOR VESSEL
WIMA	VES IWA VESSEL, EXCEPT REACTOR VESSEL, INTEGRALLY WELDED ATTACHMENT
WNOZ	NOZZLE VESSEL NOZZLE, EXCEPT REACTOR VESSEL
WREINPL	REIN PL REINFORCING PLATE
WSHELL	SHELL VESSEL SHELL, EXCEPT REACTOR VESSEL



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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                                       SYSTEM                                *
* REFERENCE CLUSTER LISTING            *****
* DATA ELEMENT : EXAMINER            * PAGE 166 *
*                                       * REVISION 0000 *
*                                       * DATE 11/04/94 *
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REFERENCE KEY	START DATE	END DATE	CERT. LEVEL	NAME (LAST, FIRST & MIDDLE INITIAL)
ZTECRDH ET	19610101	20391231	IIA	MIRANDA, R. D.
ZTECHAG ET	19610101	20391231	IIA	GRAY, W. A.

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2000  
 DECATUR, ALABAMA 35502

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                                       SYSTEM                                *
* REFERENCE CLUSTER LISTING            *****
* DATA ELEMENT : EXSCHD            * PAGE 167 *
*                                       * REVISION 0000 *
*                                       * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
AE	ACOUSTIC EMISSION
ET	EDDY CURRENT EXAMINATION FOR THE LOCATION OF PERMEABILITY VARIATIONS OR DISCONTINUITIES. THIS EXAMINATION MAY BE USED TO LOCATE DISSIMILAR METALS SUCH AS AT THE LOCATION OF A WELD OR TO DETECT CRACKS AROUND A BOLT HOLE. EDDY CURRENT EXAMINATION OF NON-FERROMAGNETIC TUBING, GENERAL DEFECT EXAMINATION
ET-CRI	COMB. ENG. ROW 01 PROBE USED TO ENHANCE TVA'S DEGRADATION DETECTION
ET-PR	PROFLOMETRY EXAMINATION BY THE USE OF EDDY CURRENT.
ET-RP	EDDY CURRENT EXAMINATION OF NON-FERROMAGNETIC TUBING, ROTATING PROBE COIL USED.
ET-8X1	EDDY CURRENT EXAMINATION OF NON-FERROMAGNETIC TUBING, EIGHT SURFACE RIDING COILS IN THE SAME CROSS SECTION PLANE, PULLED AT A SLOWER SPEED, USED TO ENHANCE DETECTION OF CIRCUMFERENTIAL CRACKING.
MT	MAGNETIC PARTICLE EXAMINATION
N/A	NOT APPLICABLE - IDENTIFIED FOR TRACKING PURPOSES ONLY
PT	LIQUID PENETRAHT EXAMINATION
RT	RADIOGRAPHY EXAMINATION





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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM *
*                               SYSTEM                        *
*                               REFERENCE CLUSTER LISTING    *****
*                               DATA ELEMENT : EXSCHD       * PAGE   168 *
*                               * REVISION 0000 *           * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
SUR	SURFACE EXAMINATION, TYPE NOT SPECIFIED
UA-0	ULTRASONIC AUTOMATED EXAMINATION 0 DEGREE
UA-45	ULTRASONIC AUTOMATED EXAMINATION 45 DEGREE, SHEER WAVE
UA-45R	ULTRASONIC AUTOMATED EXAMINATION 45 DEGREE, REFRACTED LONGITUDINAL WAVE
UA-60	ULTRASONIC AUTOMATED EXAMINATION 60 DEGREE, SHEER WAVE
UA-60R	ULTRASONIC AUTOMATED EXAMINATION 60 DEGREE, REFRACTED LONGITUDINAL WAVE
UA-70	ULTRASONIC AUTOMATED EXAMINATION 70 DEGREE, SHEER WAVE
UA-70R	ULTRASONIC AUTOMATED EXAMINATION 70 DEGREE, REFRACTED LONGITUDINAL WAVE
UT	ULTRASONIC EXAMINATION, TYPE NOT SPECIFIED
UT-CRP	ULTRASONIC EXAM, CREEPER WAVE
UT-IR	ULTRASONIC EXAMINATION INNER RADIUS
UT-RL	REFRACTED LONGITUDINAL ULTRASONIC EXAM, ANGLE NOT SPECIFIED
UT-SIZ	ULTRASONIC EXAMINATION, SIZING OF INDICATION
UT-THK	ULTRASONIC EXAMINATION, THICKNESS CHECK

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OWNER: TENNESSEE VALLEY AUTHORITY      PLANT: BROWN'S FERRY NUCLEAR PLANT  
 NUCLEAR POWER GROUP                      P.O. BOX 2500  
 1101 MARKET STREET                        DECATUR, ALABAMA 35502  
 CHATTANOOGA, TENNESSEE 37402

UNIT: TWO                                      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM *
*                               SYSTEM                        *
*                               REFERENCE CLUSTER LISTING    *****
*                               DATA ELEMENT : EXSCHD       * PAGE   169 *
*                               * REVISION 0000 *           * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
UT-0	ULTRASONIC EXAMINATION 0 DEGREE
UT-0L	A 0-DEGREE LONGITUDINAL WAVE USED TO EXAMINE BASE METAL ADJACENT TO WELDS FOR LAMINAR REFLECTORS. (SWRI)
UT-0W	A 0-DEGREE LONGITUDINAL WAVE SCAN USED WHEN PHYSICAL CONFIGURATION PROHIBITED SHEAR WAVE EXAMINATION OF VESSEL WELDS. (SWRI)
UT-10	ULTRASONIC EXAMINATION 10 DEGREE, REFRACTED LONG. (SWRI)
UT-10L	ULTRASONIC EXAMINATION 10 DEGREE, LONGITUDINAL WAVE
UT-15	ULTRASONIC EXAMINATION 15 DEGREE, REFRACTED LONG. (SWRI)
UT-19	ULTRASONIC EXAM 19 DEG.
UT-21	ULTRASONIC EXAM 21 DEG.
UT-25	ULTRASONIC EXAMINATION 25 DEGREE
UT-27	ULTRASONIC EXAM 27 DEG.
UT-29	ULTRASONIC EXAMINATION 29 DEGREE
UT-30	ULTRASONIC EXAMINATION, 30 DEGREE SHEAR WAVE
UT-32	ULTRASONIC EXAM 32 DEG.
UT-35L	35 DEGREE REFRACTED LONGITUDINAL WAVE

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REFERENCE KEY	DESCRIPTION
UT-39	ULTRASONIC EXAMINATION 39 DEGREE
UT-42	SHEAR WAVE EXAMS (SWRI)
UT-45	ULTRASONIC EXAMINATION 45 DEGREE, SHEER WAVE
UT-45L	ULTRASONIC EXAMINATION 45 DEGREE, LONGITUDINAL WAVE
UT-45R	ULTRASONIC EXAMINATION 45 DEGREE, REFRACTED LONGITUDINAL WAVE
UT-45T	SHEAR WAVE SCANS. SCAN APPLIED TRANSVERSE TO WELD. (SWRI)
UT-45X	ULTRASONIC EXAMINATION 45 DEGREE, REFRACTED TANGENTIAL WAVE
UT-50	ULTRASONIC EXAMINATION, 50 DEGREE SHEER WAVE
UT-50T	SWRI-ULTRASONIC EXAMINATION OF RV
UT-55	ULTRASONIC EXAMINATION 55 DEGREE, SHEER WAVE
UT-60	ULTRASONIC EXAMINATION 60 DEGREE, SHEER WAVE
UT-60L	ULTRASONIC EXAMINATION 60 DEGREE, LONGITUDINAL WAVE
UT-60R	ULTRASONIC EXAMINATION 60 DEGREE, REFRACTED LONGITUDINAL WAVE
UT-60T	SHEAR WAVE SCANS. SCAN APPLIED TRANSVERSE TO WELD. (SWRI)
UT-70	ULTRASONIC EXAMINATION 70 DEGREE, SHEER WAVE

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2600  
 DECATUR, ALABAMA 35602

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REFERENCE KEY	DESCRIPTION
UT-70L	ULTRASONIC EXAMINATION, 70 DEGREE LONGITUDINAL WAVE
UT-80L	ULTRASONIC EXAMINATION, 80 DEGREE LONGITUDINAL
UT-88	EXAMINATION FROM I.D. OF STUD WITH SURFACE WAVE TO DETECT CRACKS ON ID SURFACE.
UT-90	SURFACE WAVE SCAN. (SWRI)
UT-90L	ULTRASONIC EXAMINATION, 90 DEGREE LONGITUDINAL
UTSL30	SWRI - ULTRASONIC EXAMINATION ANGLE
UTSL40	SWRI - ULTRASONIC EXAMINATION METHOD
UTSY70	UT EXAM, WSY 70
UT41.5	SHEAR WAVE SCANS. (SWRI)
U50/70	SWRI ULTRASONIC EXAMINATION ANGLES FOR RV EXAMS
VERIF	VERIFY COMPONENT WAS REPAIRED, REPLACED, OR MODIFIED AS REQ.
VIS	VISUAL EXAMINATION, TYPE NOT SPECIFIED
VOL	VOLUMETRIC EXAMINATION, TYPE NOT SPECIFIED
VT	VISUAL EXAMINATION, VT-1, VT-3, AND VT-4, (AS OF 08/25/87)
VT-1	VISUAL EXAMINATION, VT-1, PRESSURE RETAINING COMPONENTS

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                               SYSTEM                        *
*                               REFERENCE CLUSTER LISTING    *****
*                               DATA ELEMENT : EXSCHD        * PAGE    172 *
*                               * REVISION 0000 *
*                               * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
VT-1L	VT-1 LIMITED VISUAL EXAMINATION OF COMPONENT
VT-2	VISUAL EXAMINATION, VT-2, PRESSURE TEST FOR EVIDENCE OF LEAKAGE
VT-3	VISUAL EXAMINATION, VT-3, STRUCTURAL INTEGRITY
VT-3L	VT-3 LIMITED VISUAL EXAMINATION OF COMPONENT
VT-4	VISUAL EXAMINATION, VT-4, OPERABILITY
VT-4L	VT-4 LIMITED VISUAL EXAMINATION OF COMPONENT
VTACID	VT/ACID ETCH EXAM

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OWNER: TENNESSEE VALLEY AUTHORITY      PLANT: BROWN'S FERRY NUCLEAR PLANT  
 NUCLEAR POWER GROUP                    P.O. BOX 2000  
 1101 MARKET STREET                    DECATUR, ALABAMA 35602  
 CHATTANOOGA, TENNESSEE 37402

UNIT: TWO                                    CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                               SYSTEM                        *
*                               REFERENCE CLUSTER LISTING    *****
*                               DATA ELEMENT : INDTYPE        * PAGE    173 *
*                               * REVISION 0000 *
*                               * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
EA	WALL LOSS >= 60% WALL LOSS GREATER THAN OR EQUAL TO 60% (ET EXAM)
EB	WALL LOSS >=30% <60% WALL LOSS GREATER THAN OR EQUAL TO 30% BUT LESS THAN 60% (ET EXAM)
EC	WALL LOSS < 30% WALL LOSS LESS THAN 30% (ET EXAM)
ED	NO DET. DEFECTS NO DETECTABLE DEFECTS
EO	OBSTRUCTED TUBE IS OBSTRUCTED AND CANNOT BE EXAMINED
RA	SURF, LINEAR SURFACE LINEAR (RT EXAM)
RB	SUBSURF, LIN SUBSURFACE LINEAR (RT EXAM)
RC	SUBSURF, ROU SUBSURFACE ROUNDED (RT EXAM)
RF	LACK OF FUSION
SA	SURF, LINEAR SURFACE LINEAR (SURFACE EXAM, PT, HT)

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                                     SYSTEM                                *
*                                     REFERENCE CLUSTER LISTING          *****
*                                     DATA ELEMENT : INDTYPE          * PAGE 174 *
*                                     * REVISION 0000 *
*                                     * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
SB	SURF, ROUND SURFACE ROUNDED (SURFACE EXAM, PT, MT)
SC	SURF, ROUND 10 OR MORE ROUNDED INDICATIONS IN A 6 SQUARE INCH AREA. (SURFACE EXAM, PT, MT)
SD	DEBRIS. DEBRIS IN EXAM AREA
SE	SUBSURF, LIN SUBSURFACE, LINEAR INDICATION (MT, PT EXAM)
UA	CLAD ROLL (UT EXAM)
UB	LINEAR SURFACE LINEAR (UT EXAM)
UC	SUBSURF, LIN SUBSURFACE LINEAR (UT EXAM)
UD	SUBSURF, ROU SUBSURFACE ROUNDED (UT EXAM)
UE	LAMINAR (UT EXAM)
UF	PLAHER (UT EXAM)

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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

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                                     SYSTEM                                *
*                                     REFERENCE CLUSTER LISTING          *****
*                                     DATA ELEMENT : INDTYPE          * PAGE 175 *
*                                     * REVISION 0000 *
*                                     * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
UG	GEOMETRIC (UT EXAM)
UH	MODE CONVERS MODE CONVERSION, (UT EXAM)
UI	IGSCC INTERGRANULAR STRESS CORROSION CRACKING (SS ONLY) (UT EXAM)
UJ	INCLUSION INCLUSION (SLAG, TUNGSTEN, ETC.) (UT EXAM)
UX	BEAM REDIRECT BEAM REDIRECTION (UT EXAM)
UL	< THAN 100% INDIC LESS THAN 100% MAX AMP.
UH	LACK/FUSION
UH	LACK OF BOND
UO	HETALURICAL
UP	POROSITY POROSITY TYPE INDICATIONS
UR	RADIO FREQ. RADIO FREQUENCY INTERFERENCE

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISIH *
*                                     SYSTEM                                *
*                                     REFERENCE CLUSTER LISTING          *****
*                                     DATA ELEMENT : INDTYPE          * PAGE 176 *
*                                     * REVISION 0000 *
*                                     * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
US	SPOT IND. SPOT INDICATION (VT EXAM)
UW	WATER WATER IN PIPE, VESSEL
UX	IDSCC INNER DENGRETIC STRESS CORROSION CRACKING
UY	NON-MET INC. NON-METALLIC INCLUSION
UZ	PREV IGSCC PREVIOUSLY RECORDED IGSCC, IE: CYCLE 5B
U1	WELD FLAW
VA	CRACKS (VT EXAM)
VB	WEAR (VT EXAM)
VC	CORROSION (VT EXAM)
VD	EROSION (VT EXAM)
VE	PHYSIC DMG PHYSICAL DAMAGE (VT EXAM)

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OWNER: TENNESSEE VALLEY AUTHORITY      PLANT: DROWNS FERRY NUCLEAR PLANT  
 NUCLEAR POWER GROUP  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402  
 P.O. BOX 204  
 DECATUR, ALABAMA 35602

UNIT: TWO      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1973

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISIH *
*                                     SYSTEM                                *
*                                     REFERENCE CLUSTER LISTING          *****
*                                     DATA ELEMENT : INDTYPE          * PAGE 177 *
*                                     * REVISION 0000 *
*                                     * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
VF	THRD ENGAGE THREAD ENGAGEMENT (VT EXAM)
VG	LOOSE, MISS. LOOSE, MISSING, DISPLACED PARTS (VT EXAM)
VH	DEBRIS (VT EXAM)
VI	ABNORM CORR ABNORMAL CORROSION (VT EXAM)
VJ	LOSS OF INTG LOSS OF INTEGRITY (VT EXAM)
VK	PHY DISPLMT PHYSICAL DISPLACEMENT (VT EXAM)
VL	STRUCT ADEQ STRUCTURAL ADEQUAECY (VT EXAM)
VN	LOOSE BOLTING TIGHTNESS OF BOLTING INADEQUATE (VT EXAM)
VH	FUCT ADEQ FUNCTIONAL ADEQUACY (VT EXAM)
VO	FREED OF MOT FREEDOM OF MOTION (VT EXAM)

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM *
*                               SYSTEM                      *
*                               REFERENCE CLUSTER LISTING   *****
*                               DATA ELEMENT : INDTYPE     * PAGE   178 *
*                               * REVISION 0000 *          * REVISION 0000 *
*                               * DATE 11/04/94 *          * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
VP	BORON RES BORON RESIDUE DUE TO LEAKAGE (VT EXAM)
VQ	INC SETTING INCORRECT SETTING (VT EXAM)
VR	FLUID LEVEL FLUID LEVEL/LEAKS (VT EXAM)
VS	ARC STRIKE ARC STRIKE (VT EXAM)
VT	BENT ROD
VU	LEAKAGE COOLANT OR OTHER FLUID LEAKAGE
VW	WELD SPAT. WELD SPATTER
WC	WALL LOSS LESS THAN 30% (ET EXAM)

OWNER: TENNESSEE VALLEY AUTHORITY      PLANT: BROWN'S FERRY NUCLEAR PLANT  
 NUCLEAR POWER GROUP                      P.O. BOX 2000  
 1101 MARKET STREET                        DECATUR, ALABAMA 35602  
 CHATTANOOGA, TENNESSEE 37402  
 UNIT: TWO                                      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISM *
*                               SYSTEM                      *
*                               REFERENCE CLUSTER LISTING   *****
*                               DATA ELEMENT : INDTYPE1    * PAGE   179 *
*                               * REVISION 0000 *          * REVISION 0000 *
*                               * DATE 11/04/94 *          * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
AC	ADR>0V ABSOLUTE DRIFT OF GREATER THAN 0 VOLTS
B	APT = ? AN ABSOLUTE POSITIVE TRACE HAS BEEN DISCOVERED AT THIS LOCATION.
BC	APT > 0V ABSOLUTE POSITIVE TRACE OF GREATER THAN 0 VOLTS.
CC	PV > 0V PERMEABILITY VARIATION GREATER THAN 0 VOLTS.
CD	MPV > 0V MULTIPLE PERMEABILITY VARIATIONS GREATER THAN 0 VOLTS.
DC	IDV>0V INSIDE DIA. VAR. OF GREATER THAN 0
EC	SLG>0V SLUDGE GREATER THAN 0
FC	CU > 0V COPPER GREATER THAN 0 VOLTS
HC	DENT > 0V DENT GREATER THAN 0 VOLTS.
HD	0<DENT<11MILS DENT GREATER THAN 0 AND LESS THAN 11 MILLS. C & L INDICATION - SEQUOYAH 2 CYCLE 1 -- SG2 AND SG3.



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N BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 N
N ISI DATA BASE N
N REFERENCE CLUSTER LISTING *****
N DATA ELEMENT : BLDG N PAGE 4 N
N N REVISION 0000 N
N N DATE 11/04/94 N
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REFERENCE KEY	DESCRIPTION
TMS2C	TURBINE BUILDING-MOISTURE SEPARATOR ROOM 2C
TORUS	TORUS
TTORUS	TOP OF TORUS

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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N NUTECH TENNESSEE VALLEY AUTHORITY PRISIH N
N BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 N
N ISI DATA BASE N
N REFERENCE CLUSTER LISTING *****
N DATA ELEMENT : CATEGORY N PAGE 5 N
N N REVISION 0000 N
N N DATE 11/04/94 N
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REFERENCE KEY	DESCRIPTION
A01-02F-A	CLASS 1, 2, 3, PIPING SUPPORTS, 1ST ADD. SAMPLE (F1.20)
A02-02F-A	PIPING SUPPORTS, CLASS 1, 2, 3, 2ND ADD. SAMPLE (F1.20)
A03-02F-A	CLASS 1, 2, 3, PIPING SUPPORTS, 3RD ADD. SAMPLE (F1.20)
A04-02F-A	CLASS 1, 2, 3, PIPING SUPPORTS, 4TH ADD. SAMPLE (F1.20)
A05-02B-F	PRESSURE RETAINING DISSIMILAR METAL WELDS
A06-02B-G-2	PRESSURE RETAINING BOLTS, TWO INCHES AND SMALLER IN DIAMETER
A07-02B-J	PRESSURE RETAINING WELDS IN PIPING
A08-02B-G-2	PRESSURE RETAINING BOLTS, TWO INCHES AND SMALLER IN DIAMETER
A09-02B-J	PRESSURE RETAINING WELDS IN PIPING
A10-02F-A	SUPPORTS OTHER THAN PIPING, CL 1, 2, 3, & HC 1ST ADD SAMPLE (F1.40)
A11-02F-A	CLASS 3 PIPING SUPPORTS, 1ST ADD. SAMPLE (F1.30)
A12-02F-A	CLASS 3 PIPING SUPPORTS, 2ND ADD. SAMPLE (F1.30)
A13-02B-F	PRESSURE RETAINING DISSIMILAR METAL WELDS
A14-02C-B	PRESSURE RETAINING NOZZLE WELDS IN VESSELS
B01-02B-D	FULL PENETRATION WELDS OF NOZZLES IN VESSELS



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* NUTECH                                PRISM *
* TENNESSEE VALLEY AUTHORITY            *
* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
* ISI DATA BASE                        *
* REFERENCE CLUSTER LISTING            *****
* DATA ELEMENT : CATEGORY              * PAGE 6 *
*                                       * REVISION 0000 *
*                                       * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
B01-02B-J	IE BULLETIN 80-13 AS IMPLEMENTED BY MHI-182 REQUIRES EXAMINATION OF THE CORE SPRAY SPARGER EVERY REFUELING OUTAGE.
B01-02CRD	BWR FEEDWATER NOZZLE AND CRD RETURN LINE, NUREG 0619 SEC. 7.11.6 OF 2-SI 4.6.G
B01-02H/A	IE BULLETIN 80-13 AS IMPLEMENTED BY MHI-182 REQUIRES EXAMINATION OF THE CORE SPRAY SPARGER EVERY REFUELING OUTAGE.
B02-02A	NUREG-0313, REV. 2 (IGSCC EXAMS)
B02-02C	NUREG-0313, REV. 2 (IGSCC EXAMS)
B02-02D	NUREG-0313, REV. 2 (IGSCC EXAMS)
B02-02E	NUREG-0313, REV. 2 (IGSCC EXAMS)
B02-02G	NUREG-0313, REV. 2 (IGSCC EXAMS)
B02-02IGSCC	IGSCC EXAMINATION OF WELDS PER NUREG 0313 SEC. 7.11.8 OF 2-SI 4.6.G
B03-02B-H-1	IE BULLETIN 80-13 AS IMPLEMENTED BY MHI-182 REQUIRES EXAMINATION OF THE CORE SPRAY SPARGER EVERY REFUELING OUTAGE.
B03-02SPRAY	VT/UT EXAMINATION OF CORE SPRAY SPARGERS FOR IEB 80-13 SEC. 7.11.9 OF 2-SI 4.6.G
B04-02B-J	PIPE WHIP SURVEILLANCE EXAMS

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

UNIT: TWO                                      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                PRISM *
* TENNESSEE VALLEY AUTHORITY            *
* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
* ISI DATA BASE                        *
* REFERENCE CLUSTER LISTING            *****
* DATA ELEMENT : CATEGORY              * PAGE 7 *
*                                       * REVISION 0000 *
*                                       * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
B04-02PIPE	UT EXAM OF PIPE WELDS FOR PIPE WHIP PROTECTION SEC. 7.11.10 OF 2-SI 4.6.G
B05-02B-A	PRESSURE RETAINING WELDS IN REACTOR VESSEL
B06-02RPV	RPV INTERIOR EXAMINATIONS
B06-02THERMO	EXAMINATION OF THERMAL SLEEVES
B12-02A	EXPANDED SAMPLE FOR IGSCC EXAMS, REF. B02-02
B12-02C	EXPANDED SAMPLE FOR IGSCC EXAMS, REF. B02-02
B12-02D	EXPANDED SAMPLE FOR IGSCC EXAMS, REF. B02-02
B12-02E	EXPANDED SAMPLE FOR IGSCC EXAMS, REF. B02-02
D01-02C	NRC INSPECTION REPORT 86-03, ITEM NO. 86-03-03 REQUIRES RE-EXAMINATION EVERY PERIOD.
D01-02FUSION	WELD DSRIR-2-05A LACK OF FUSION
D02-02B-H-1	CLADDING INDICATION AT 15 DEG. AZIMUTH AND 32 3/4" BELOW FLANGE SHALL BE RE-EXAMINED IN CYCLES 6, 7, AND 8.
D02-02RPV	VT-1 EXAMINATION OF RPV CLADDING (SEC. 7.11.2 OF 2-SI 4.6.G)
D03-02E	NRC COMMITMENT HCO 850264005 REQUIRES RE-EXAM IN CYCLE 6.
D03-02IGSCC	UT EXAMINATIONS OF IGSCC INDICATIONS FOR CYCLE 06 SEC. 7.11.3 OF 2-SI 4.6.G

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* NUTECH                                TENNESSEE VALLEY AUTHORITY PRISIM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE *
* REFERENCE CLUSTER LISTING *
* DATA ELEMENT : CATEGORY *
*                                     * PAGE 10 *
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* DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
R23-02B-F	DISSIMILIAR METAL WELDS
R23-02B-J	PRESSURE RETAINING WELDS IN PIPING
R24-02B-L-2	PUMP CASINGS
R25-02C-F-1	PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING
R25-02C-F-2	PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING
R26-02B-K-1	INTERGAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES, CLASS 1
R26-02C-C	INTERGAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES, CLASS 2
R27-02B-P	PRESSURE RETAINING COMPONENTS
S01-02C-F-2	SUCCESSIVE EXAMS IN PRES. RET. WELDS IN CARBON OR LOW ALLOY CARBON STEEL PIPING
V01-01B-F	VOLUNTARY EXAMS OF B-F DISSIMILIAR WELDS
V01-01B-J	VOLUNTARY EXAMS OF B-J WELDS
V01-01C-F-1	VOLUNTARY EXAMS OF C-F-1 WELDS
V01-02B-F	VOLUNTARY EXAMS FOR B-F DISSIMILIAR METAL WELDS
V01-02B-G-1	BOLTS, STUDS, NUTS, WASHERS, LIGAMENTS

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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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                TENNESSEE VALLEY AUTHORITY PRISIM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
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* REFERENCE CLUSTER LISTING *
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REFERENCE KEY	DESCRIPTION
V01-02B-G-2	VOLUNTARY EXAM OF BOLTING
V01-02B-J	VOLUNTARY EXAMS FOR B-J WELDS
V01-02C-F-1	VOLUNTARY EXAMS FOR C-F-1, CLASS 2 WELDS
V01-02D	VOLUNTARY EXAMS FOR DETECTION OF IGSCC
V02-02B-F	EXAMS OF WELDS FOR LOCATION OF LONG SEAMS
V02-02B-J	EXAMS OF WELDS FOR LOCATION OF LONG SEAMS
V02-02C-F-1	EXAMS OF WELDS FOR LOCATION OF LONG SEAMS
V02-02C-F-2	PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING
V03-02B-F	PRESSURE RETAINING DISSIMILIAR METAL WELDS
V03-02B-J	PRESSURE RETAINING WELDS IN PIPING
V03-02C-F-2	PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING
75S-02B-K-2	EXAMINATION OF CLASS 1 SUPPORTS, BFN PER 940085
75S-02C-E-1	EXAMINATION OF CLASS 2 INTEGRAL ATTACHMENTS, BFN PER 940085
86E-02B-A	PRESSURE RETAINING WELDS IN REACTOR VESSEL
86E-02B-B	PRESSURE RETAINING WELDS IN VESSELS OTHER THAN THE RV

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N NUTECH PRISM
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N BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
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REFERENCE KEY	DESCRIPTION
86E-02B-D	FULL PENETRATION WELDS OF NOZZLES IN VESSELS
86E-02B-DA	FULL PENETRATIONS WELDS OF NOZZLES IN VESSELS - PROGRAM A
86E-02B-DB	FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B
86E-02B-E	PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS
86E-02B-F	PRESSURE RETAINING DISSIMILAR METAL WELDS
86E-02B-G-1	PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIA.
86E-02B-G-2	PRESSURE RETAINING BOLTING, 2" AND LESS IN DIA.
86E-02B-H	INTEGRAL ATTACHMENTS FOR VESSELS
86E-02B-J	PRESSURE RETAINING WELDS IN PIPING
86E-02B-K-1	INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
86E-02B-L-1	PRESSURE RETAINING WELDS IN PUMP CASINGS
86E-02B-L-2	PUMP CASINGS
86E-02B-M-1	PRESSURE RETAINING WELDS IN VALVE BODIES
86E-02B-M-2	VALVE BODIES
86E-02B-N-1	INTERIOR OF REACTOR VESSEL

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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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
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N NUTECH PRISM
N TENNESSEE VALLEY AUTHORITY
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N ISI DATA BASE
N REFERENCE CLUSTER LISTING *****
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REFERENCE KEY	DESCRIPTION
86E-02B-N-2	INTEGRALLY WELDED CORE SUPPORTS AND ATTACHMENTS (BWR) TO RV
86E-02B-N-3	REMOVABLE CORE SUPPORT STRUCTURES (BWR)
86E-02B-O	PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS
86E-02B-P	PIPING PRESSURE RETAINING BOUNDARY SYSTEM LEAKAGE TEST VT-2
86E-02B-Q	STEAM GENERATOR TUBING (SEE ISIS PROGRAM)
86E-02C-A	PRESSURE RETAINING WELDS IN PRESSURE VESSELS
86E-02C-B	PRESSURE RETAINING NOZZLE WELDS IN VESSELS
86E-02C-C	INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
86E-02C-D	PRESSURE RETAINING BOLTING GREATER THAN 2" IN DIA.
86E-02C-F	PRESSURE RETAINING WELDS IN PIPING
86E-02C-F-1	PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING
86E-02C-F-2	PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING
86E-02C-G	PRESSURE RETAINING WELDS IN PUMPS AND VALVES
86E-02C-H	ALL PRESSURE RETAINING COMPONENTS
86E-02D-A	SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION

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* NUTECH                                TENNESSEE VALLEY AUTHORITY PRISIM *
*                                BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
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*                                DATA ELEMENT : CATEGORY * PAGE 14 *
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REFERENCE KEY	DESCRIPTION
86E-02D-B	ECC, CHR, ACU, AND RHR SUPPORT SYSTEMS SYSTEMS IN SUPPORT OF EMERGENCY CORE COOLING, CONTAINMENT HEAT REMOVAL, ATHOSPHERE CLEANUP, AND REACTOR RESIDUAL HEAT REMOVAL
86E-02D-C	SYSTEMS IN SUPPORT OF RHR FROM SPENT FUEL STORAGE POOL
86E-02F-A	CLASS 1, 2, & 3 PIPING SUPPORTS, (F1.10, F1.20, & F1.30) SUPPORTS OTHER THAN PIPING, CL. 1, 2, 3, & MC (F1.40)
86E-02F-B	USE UNTIL MASS EDIT COMPLETE, THEN REMOVE
86E-02F-C	USE UNTIL MASS EDIT COMPLETE, THEN REMOVE

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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                TENNESSEE VALLEY AUTHORITY PRISIM *
*                                BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                ISI DATA BASE *
*                                REFERENCE CLUSTER LISTING *****
*                                DATA ELEMENT : CYCLE * PAGE 15 *
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REFERENCE KEY	DESCRIPTION
06	REFUELING 06 FIRST REFUELING OUTAGE OF THE 2ND INTERVAL INTERVAL = 02, CYCLE 5B COMPLETED 1ST 10 YEAR INTERVAL PERIOD = 01 START 19930129 END 19930531
06A	UNSCHEDULED 06A PSI EXAMS OF COMPONENTS INTERVAL = 02 PERIOD = 01 START 19930129 END 19930531
07	REFUELING 07 SECOND REFUELING OUTAGE OF THE 2ND INTERVAL INTERVAL = 02 PERIOD = 01 START 19940101 END 19941115
07A	REPAIR/REPLACEMENT EXAMS W/CYCLE 07
08	REFUELING 08 THIRD REFUELING OUTAGE OF THE 2ND INTERVAL INTERVAL = 02 PERIOD = 02 START END
09	REFUELING 09 FOURTH REFUELING OUTAGE OF THE 2ND INTERVAL INTERVAL = 02 PERIOD = 02 START END

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M                                     TENNESSEE VALLEY AUTHORITY M
M      BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
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M      REFERENCE CLUSTER LISTING ***** M
M      DATA ELEMENT : CYCLE M PAGE 16 M
M M REVISION 0000 M
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REFERENCE KEY	DESCRIPTION
10	REFUELING 10 FIFTH REFUELING OUTAGE OF THE SECOND INTERVAL INTERVAL 02 PERIOD 03 START END
11	REFUELING 11 SIXTH REFUELING OUTAGE OF THE SECOND INTERVAL INTERVAL = 02 PERIOD = 03 START END

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

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M  NUTECH                               PRISIM  M
M                                     TENNESSEE VALLEY AUTHORITY M
M      BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M      ISI DATA BASE M
M      REFERENCE CLUSTER LISTING ***** M
M      DATA ELEMENT : EXEMPT M PAGE 17 M
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REFERENCE KEY	DESCRIPTION
83S-0283S-E	ASME SECTION XI, SUBSECTION IWE IS NOT INCLUDED BECAUSE THE NRC HAS NOT INVOKED THE REQUIREMENTS OF SUBSECTION IWE. THE REFERENCE OF INTEREST IS : FEDERAL REGISTER / VOLUME 48, NUMBER 28 / MONDAY, FEBRUARY 7, 1983 / RULES AND REGULATIONS / PAGE 5532 / SUPPLEMENTARY INFORMATION, NOTE 4, ... "THE REGULATION DOES NOT CURRENTLY ADDRESS THE ISI OF CONTAINMENTS. ...THE REQUIREMENTS OF ... IWE ARE NOT IMPOSED ...
83S-0283S-F0	WHERE THE MECHANICAL CONNECTION OF A NONINTEGRAL SUPPORT IS BURIED WITHIN THE COMPONENT INSULATION, THE SUPPORT BOUNDARY MAY EXTEND FROM THE SURFACE OF THE COMPONENT INSULATION PROVIDED THE SUPPORT EITHER CARRIES THE WEIGHT OF THE COMPONENT OR SERVES AS A STRUCTURAL RESTRAINT IN COMPRESSION PER IWF-1300(E), 83S83.

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* TENNESSEE VALLEY AUTHORITY             *
* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
* ISI DATA BASE                         *
* REFERENCE CLUSTER LISTING              *****
* DATA ELEMENT : EXREQ                   * PAGE 18 *
*                                         * REVISION 0000 *
*                                         * DATE 11/04/94 *
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REFERENCE KEY	DESCRIPTION
A01-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A01-02 FIRST ADDITIONAL SAMPLE REQUIRED BY IW7-2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A01-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R01-02 & INCLUDES ALL 1ST ADDITIONAL SAMPLE PIPING SUPPORTS
A02-02	SECOND ADDITIONAL EXAM COMPONENT LISTING : A02-02 SECOND ADDITIONAL SAMPLE REQUIRED BY IW7-2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 SECOND ADDITIONAL EXAM STATUS REPORT : A02-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R02-02 & INCLUDES ALL 2ND ADDITIONAL SAMPLE PIPING SUPPORTS
A03-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A03-02 FIRST ADDITIONAL SAMPLE REQUIRED BY IW7-2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A03-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R03-02 & INCLUDES ALL 3RD ADDITIONAL SAMPLE PIPING SUPPORTS
A04-02	SECOND ADDITIONAL EXAM COMPONENT LISTING : A04-02 SECOND ADDITIONAL SAMPLE REQUIRED BY IW7-2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 SECOND ADDITIONAL EXAM STATUS REPORT : A04-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R04-02 & INCLUDES ALL 4TH ADDITIONAL SAMPLE PIPING SUPPORTS
A05-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A05-02 FIRST ADDITIONAL SAMPLE REQUIRED BY IWB-2430 CATEGORY B-F ITEM B5.10 INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A05-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R05-02

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

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UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
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* NUTECH                                PRISM *
* TENNESSEE VALLEY AUTHORITY             *
* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
* ISI DATA BASE                         *
* REFERENCE CLUSTER LISTING              *****
* DATA ELEMENT : EXREQ                   * PAGE 19 *
*                                         * REVISION 0000 *
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REFERENCE KEY	DESCRIPTION
A06-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A06-02 FIRST ADDITIONAL SAMPLE REQUIRED BY IWB-2430 CATEGORY B-G-2 ITEM B7.50 & B7.70 INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A06-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R06-02 1ST ADDITIONAL SAMPLE, BOLTING
A07-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A07-02 FIRST ADDITIONAL SAMPLE REQUIRED BY IWB-2430 CATEGORY B-J ITEM B9.11, B9.21, B9.40 INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A07-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R07-02 1ST ADDITIONAL EXAMS FOR CLASS 1 PIPING
A08-02	SECOND ADDITIONAL EXAM COMPONENT LISTING : A08-02 SECOND ADDITIONAL SAMPLE REQUIRED BY IWB-2430 CATEGORY B-G-2 ITEM B7.50 & B7.70 INTERVAL 02 SECOND ADDITIONAL EXAM STATUS REPORT : A08-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R08-02 SECOND ADDITIONAL SAMPLE, BOLTING
A09-02	SECOND ADDITIONAL EXAM COMPONENT LISTING : A09-02 SECOND ADDITIONAL SAMPLE REQUIRED BY IWB-2430 CATEGORY B-J ITEM B9.11, B9.21, B9.40 INTERVAL 02 SECOND ADDITIONAL EXAM STATUS REPORT : A09-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R09-02 2ND ADDITIONAL EXAMS FOR CLASS 1 PIPING
A10-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A10-02 FIRST ADDITIONAL SAMPLE REQUIRED BY IWB-2430 CATEGORY F-A ITEM F1.40B, & C INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A10-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R10-02 THE ABOVE INCLUDES PUMP COMPONENT SUPPORTS, ALL CLASSES

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* NUTECH                                PRISIM *
* TENNESSEE VALLEY AUTHORITY            *
* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
* ISI DATA BASE                        *
* REFERENCE CLUSTER LISTING            *****
* DATA ELEMENT : EXREQ                * PAGE 20 *
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REFERENCE KEY	DESCRIPTION
A11-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A11-02 FIRST ADDITIONAL SAMPLE REQUIRED BY IWB-2430 CATEGORY F-A ITEM F1.30A, B, & C INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A11-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R11-02 FIRST ADDITIONAL SAMPLE OF CLASS 3 PIPING SUPPORTS
A12-02	SECOND ADDITIONAL EXAM COMPONENT LISTING : A12-02 SECOND ADDITIONAL SAMPLE REQUIRED BY IWC-2430 CATEGORY F-A ITEM F1.30A, B, & C INTERVAL 02 SECOND ADDITIONAL EXAM STATUS REPORT : A12-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R12-02 THE ABOVE INCLUDES CLASS 3 PIPING SUPPORTS
A13-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A13-02 FIRST ADDITIONAL SAMPLE REQUIRED BY IWC-2430 CATEGORY B-F ITEM B5.20 INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A13-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R13-02
A14-02	FIRST ADDITIONAL EXAM COMPONENT LISTING : A14-02 FIRST ADDITIONAL SAMPLE REQUIRED BY IWC-2430 CATEGORY C-B ITEM C2.20 INTERVAL 02 FIRST ADDITIONAL EXAM STATUS REPORT : A14-02 THIS PROGRAM CORRESPONDS TO REPAIR PROGRAM R14-02
B01-02	AUGMENTED EXAM COMPONENT LISTING : B01-02 BWR FEEDWATER NOZZLE AND CONTROL ROD DRIVE RETURN LINE NOZZLE EXAMS PER NUREG 0619 AUGMENTED EXAMINATION STATUS REPORT : B01-02

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

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* NUTECH                                PRISIM *
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* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
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* REFERENCE CLUSTER LISTING            *****
* DATA ELEMENT : EXREQ                * PAGE 21 *
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REFERENCE KEY	DESCRIPTION
B02-02	AUGMENTED EXAM COMPONENT LISTING : B02-02 AUGMENTED EXAMINATION PER NUREG-0313, REV. 02 DETECTION OF INNERGRANULAR STRESS CORROSION CRACKING AUGMENTED EXAM STATUS REPORT : B02-02 GENERIC LETTER 88-01
B03-02	AUGMENTED EXAM COMPONENT LISTING : B03-02 AUGMENTED EXAMS PER IE BULLETIN 80-13 CRACKING OF CORE SPRAY SPARGERS AUGMENTED EXAMINATION STATUS REPORT : B03-02
B04-02	AUGMENTED EXAM COMPONENT LISTING : B04-02 EXAM OF WELDS FOR PIPE WHIP SURVEILLANCE, SI 4.6.G.2 EXAMINE WELDS IN ACCORDANCE WITH SI 4.6.G.2 AUGMENTED EXAMINATION STATUS REPORT : B04-02
B05-02	AUGMENTED EXAM COMPONENT LISTING : B05-02 RPV SHELL WELDS EXAM CATEGORY B-A FOR CYCLE 06 EXAMINATIONS FOR HRC COMMITMENT R08 910927 826 AUGMENTED EXAMINATION STATUS REPORT : B05-02
B06-02	AUGMENTED EXAM COMPONENT LISTING : B06-02 RPV THERMAL SLEEVE COUPLING AUGMENTED EXAMINATIONS AUGMENTED EXAMINATIONS OF RPV THERMAL SLEEVES AUGMENTED EXAMINATION STATUS REPORT : B06-02
B12-02	EXPANDED SAMPLE FOR IGSCC EXAMS: B12-02 AUGMENTED EXAMINATION PER NUREG-0313 EXPANDED SAMPLE DETECTION OF INNERGRANULAR STRESS CORROSION CRACKING AUGMENTED EXAMINATION STATUS REPORT B12-02 THIS REPORT IS FOR ADDITIONAL EXAMINATIONS REFERENCE B02-02

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* NUTECH                               TENNESSEE VALLEY AUTHORITY          PRISIM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE                       *
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REFERENCE KEY	DESCRIPTION
D01-02	AUGMENTED EXAM COMPONENT LISTING : D01-02 AUGMENTED EXAMS PER NRC INSPECTION REPORT 86-03 OPEN ITEM 86-03-03 FOR WELD DSRHR-2-5A AUGMENTED EXAMINATION STATUS REPORT : D01-02 SELF IMPOSED BY TVA; REF. L29 800925 984
D02-02	AUGMENTED EXAM COMPONENT LISTING : D02-02 EXAMINATION OF INDICATION WITHIN THE RPV CLADDING SELF IMPOSED EXAM OF RPV CLADDING FOR CYCLE 06, 07, & 08 AUGMENTED EXAMINATION STATUS REPORT : D02-02 REF: W10 880831 850, W10 880908 873, & B22 880920 022
D03-02	AUGMENTED EXAM COMPONENT LISTING : D03-02 AUGMENTED EXAMS PER NRC COMMITMENT NCO 850264005 EXAMS OF WELDS KR-2-14, -36, -37, & -41 IN CYCLE 06 AUGMENTED EXAMINATION STATUS REPORT : D03-02 REF: RIMS L44 860311 803
D04-02	AUGMENTED EXAM COMPONENT LISTING : D04-02 HPCIS PUMP DISCHARGE SUPPORT EXAM FOLLOWING INJECTION HPCIS PUMP EXAMINATION, INTERVAL 02 AUGMENTED EXAMINATION STATUS REPORT : D04-02
D05-02	AUGMENTED EXAM COMPONENT LISTING : D05-02 AUGMENTED EXAMS PER ECN P5215 EXAMINE WELD GR-2-15(OL) IN CYCLES 06, 08, & 10 AUGMENTED EXAMINATION STATUS REPORT : D05-02
EX1-02	EXAMS NOT REQUIRED, FOR TRACKING PURPOSES ONLY : EX1-02 CLASS 2 WELDS, CATEGORY C-F-2, ITEM. NO. N/A WELDS < 3/8" NOMINAL WALL THICKNESS WELDS EXEMPT FROM EXAMINATION STATUS REPORT : EX1-02 WELDS SCHEDULED FOR TRACKING PURPOSES ONLY.

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OWNER: TENNESSEE VALLEY AUTHORITY          PLANT: BROWNS FERRY NUCLEAR PLANT
      NUCLEAR POWER GROUP                 P.O. BOX 2000
      1101 MARKET STREET                   DECATUR, ALABAMA 35502
      CHATTANOOGA, TENNESSEE 37402

UNIT: TWO                                CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                               PRISIM *
*                                     TENNESSEE VALLEY AUTHORITY          *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE                       *
* REFERENCE CLUSTER LISTING          ***** *
* DATA ELEMENT : EXREQ              * PAGE 23 *
*                                     * REVISION 0000 *
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REFERENCE KEY	DESCRIPTION
R01-02	REPAIR/REPLACEMENT COMPONENT LISTING : R01-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R01-02 THIS PROGRAM CORRESPONDS TO 1ST ADD SAMPLE PROGRAM A01-02 FOR ALL PIPING SUPPORTS, REPAIR OF 1ST ADDITIONAL SAMPLE
R02-02	REPAIR/REPLACEMENT COMPONENT LISTING : R02-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R02-02 THIS PROGRAM CORRESPONDS TO 2ND ADD SAMPLE PROGRAM A02-02 FOR ALL PIPING SUPPORTS, REPAIR OF 2ND ADDITIONAL SAMPLE
R03-02	REPAIR/REPLACEMENT COMPONENT LISTING : R03-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R03-01 THIS PROGRAM CORRESPONDS TO 3RD ADD SAMPLE PROGRAM A03-02 FOR ALL PIPING SUPPORTS, REPAIR OF 3RD ADDITIONAL SAMPLE
R04-02	REPAIR/REPLACEMENT COMPONENT LISTING : R04-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.70A, B, & C, ALL; INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R04-02 THIS PROGRAM CORRESPONDS TO 4TH ADD SAMPLE PROGRAM R04-02 FOR ALL PIPING SUPPORTS, REPAIR OF 4TH ADDITIONAL SAMPLE
R05-02	REPAIR/REPLACEMENT COMPONENT LISTING : R05-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWB-2200/2430 CATEGORY B-F ITEM B5.10 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R05-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A05-02

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M  NUTECH                                PRISM M
M                                     TENNESSEE VALLEY AUTHORITY M
M                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M                                     ISI DATA BASE M
M                                     REFERENCE CLUSTER LISTING *****
M                                     DATA ELEMENT : EXREQ M PAGE 24 M
M                                     M REVISION 0000 M
M                                     M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
R06-02	REPAIR/REPLACEMENT COMPONENT LISTING : R06-02 PRESERVICE REQUIRED IN ACCORDANCE WITH INB-2200/2430 CATEGORY B-G-2 ITEM B7.50 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R06-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A06-02
R07-02	REPAIR/REPLACEMENT COMPONENT LISTING : R07-02 PRESERVICE REQUIRED IN ACCORDANCE WITH INB-2200/2430 CATEGORY B-J ITEM B9.11, B9.21, B9.40 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R07-02 THIS PROGRAM CORRESPONDS TO 1ST ADD. SAMPLE PROGRAM A07-02 CLASS 1 WELDS
R08-02	REPAIR/REPLACEMENT COMPONENT LISTING : R08-02 PRESERVICE REQUIRED IN ACCORDANCE WITH INB-2200/2430 CATEGORY B-G-2 ITEM B7.70 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R08-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A08-02
R09-02	REPAIR/REPLACEMENT COMPONENT LISTING : R09-02 PRESERVICE REQUIRED IN ACCORDANCE WITH INB-2200/2430 CATEGORY B-J ITEM B9.11, B9.21, B9.40 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R09-02 THIS PROGRAM CORRESPONDS TO 2ND ADD. SAMPLE PROGRAM A09-02
R10-02	REPAIR/REPLACEMENT COMPONENT LISTING : R10-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.40B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R10-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A10-02 REPAIR OF SUPPORTS OTHER THAN PIPING, ALL CLASSES

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
P.O. BOX 2000  
DECATUR, ALABAMA 35502

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
COMMERCIAL SERVICE DATE: MARCH 1, 1975  
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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M  NUTECH                                PRISM M
M                                     TENNESSEE VALLEY AUTHORITY M
M                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
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M                                     DATA ELEMENT : EXREQ M PAGE 25 M
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REFERENCE KEY	DESCRIPTION
R11-02	REPAIR/REPLACEMENT COMPONENT LISTING : R11-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.30A, B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R11-02 THIS PROGRAM CORRESPONDS TO 1ST ADD SAMPLE PROGRAM A11-02 CLASS 3 PIPING SUPPORTS, REPAIR OF 1ST ADDITIONAL SAMPLE
R12-02	REPAIR/REPLACEMENT COMPONENT LISTING : R12-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.30A, B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R12-02 THIS PROGRAM CORRESPONDS TO 2ND ADD SAMPLE PROGRAM A12-02 CLASS 3 PIPING SUPPORTS, REPAIR OF 2ND ADDITIONAL SAMPLE
R13-02	REPAIR/REPLACEMENT COMPONENT LISTING : R13-02 PRESERVICE REQUIRED IN ACCORDANCE WITH INB-2200/2430 CATEGORY B-F ITEM B5.20 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R13-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A13-02
R14-02	REPAIR/REPLACEMENT COMPONENT LISTING : R14-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWC-2000/2430 CATEGORY C-B ITEM C2.20 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R14-02 THIS PROGRAM CORRESPONDS TO ADDITIONAL SAMPLE PROGRAM A14-02
R15-02	REPAIR/REPLACEMENT COMPONENT LISTING : R15-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWF-2200/2430 CATEGORY F-A ITEM F1.10A, B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R15-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE PSI OF MODIFIED/REPAIRED CLASS 1 PIPING SUPPORTS

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* TENNESSEE VALLEY AUTHORITY          *
* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
* ISI DATA BASE                      *
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* DATA ELEMENT : EXREQ              * PAGE 26 *
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REFERENCE KEY	DESCRIPTION
R16-02	REPAIR/REPLACEMENT COMPONENT LISTING : R16-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IMF-2200/2430 CATEGORY F-A ITEM F1.20A, B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R16-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE PSI OF MODIFIED/REPAIRED CLASS 2 PIPING SUPPORTS
R17-02	REPAIR/REPLACEMENT COMPONENT LISTING : R17-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IMF-2200/2430 CATEGORY F-A ITEM F1.30A, B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R17-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE PSI OF MODIFIED/REPAIRED CLASS 3 PIPING SUPPORTS
R18-02	REPAIR/REPLACEMENT COMPONENT LISTING : R18-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IMF-2200/2430 CATEGORY F-A ITEM F1.40B, & C INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R18-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE PSI OF MODIFIED/REPAIRED SUPPORTS OTHER THAN PIPING
R19-02	REPAIR/REPLACEMENT COMPONENT LISTING : R19-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWB-2200/2430 CATEGORY B-G-2 ITEM B7.50/B7.60/B7.70 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R19-02 PIPING/PUMP/VALVE BOLTS, STUDS, & NUTS <= 2 INCHES CRD HOUSING BOLTS
R20-02	REPAIR/REPLACEMENT COMPONENT LISTING : R20-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWA-2200/2430 CATEGORY B-H-2 ITEM B12.50 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R20-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE

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

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* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
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* REFERENCE CLUSTER LISTING          *****
* DATA ELEMENT : EXREQ              * PAGE 27 *
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REFERENCE KEY	DESCRIPTION
R21-02	REPAIR/REPLACEMENT COMPONENT LISTING : R21-02 PRESERVICE REQUIRED IN ACCORDANCE WITH INB-2200/2430 CATEGORY B-G-1 ITEM B6.30/B6.50/B6.200 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R21-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE PUMP NUTS, WASHERS, ETC
R22-02	REPAIR/REPLACEMENT COMPONENT LISTING : R22-02 PRESERVICE REQUIRED IN ACCORDANCE WITH INB-2200/2430 CATEGORY B-F ITEM B5.10 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R22-02 THIS PROGRAM HAS NO ADDITIONAL SAHPLE
R23-02	REPAIR/REPLACEMENT COMPONENT LISTING : R23-02 PRESERVICE REQUIRED IN ACCORDANCE WITH IWA-2200/2430 CATEGORY B-J ITEM B9.11/B9.21/B9.40 INTERVAL 02 REPAIR/REPLACEMENT STATUS REPORT : R23-02 THIS PROGRAM HAS NO ADDITIONAL SAMPLE
R24-02	REPAIR/REPLACEMENT COMPONENT LISTING : R24-02 PRESERVICE EXAMS OF COMPONENTS FOR PUMPS B-L-2 CATEGORY B-L-2 ITEMNO B12.20 INTERVAL 02 REPAIR/REPLACEMENT EXAMINATION STATUS REPORT : R24-02
R25-02	REPAIR/REPLACEMENT COMPONENT LISTING : R25-02 PRESERVICE EXAMINATION OF C-F-1 COMPONENTS CATEGORY C-F-1, C-F-2 ITEMNO C5.??? INTERVAL 02 REPAIR/REPLACEMENT EXAM STATUS REPORT : R25-02
R26-02	REPAIR/REPLACEMENT COMPONENT LISTING : R26-02 PRESERVICE EXAMINATION OF INTERGAL ATTACHMENTS CATEGORY B-K-1, C-C, INTERGAL ATTACHMENTS REPAIR/REPLACEMENT STATUS REPORT : R26-02 PSI EXAMS

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REFERENCE KEY	DESCRIPTION
R27-02	REPAIR/REPLACEMENT COMPONENT LISTING : R27-02 PRESERVICE EXAMS PERFORMED TO ENSURE CODE ACCEPTANCE CATEGORY B-P ITEMNO B15.10 LEAKAGE TEST REPAIR/REPLACEMENT STATUS REPORT R27-02 PSI EXAMS
S01-02	SUCCESSIVE EXAM COMPONENT LISTING : S01-01 EXAMS PERFORMED ON COMPONENTS IN SUCCESSIVE/ALTERNATING CYCS SUCCESSIVE EXAMS DUE TO PREVIOUS FINDINGS SUCCESSIVE EXAMINATION STATUS REPORT : S01-01
V01-02	VOLUNTARY EXAM COMPONENT LISTING : V01-02 VOLUNTARY EXAMINATION OF COMPONENTS EXAMINATIONS OF COMPONENTS IN CONJUNCTION WITH 86E-02 VOLUNTARY EXAMINATION COMPONENT LISTING : V01-02
V02-02	VOLUNTARY EXAM COMPONENT LISTING : V02-02 VOLUNTARY EXAMINATION OF LONG SEAMS VERIFICATION EXAMINATION OF COMPONENTS IN CONJUNCTION WITH 86E-02 VOLUNTARY EXAMINATION COMPONENT LISTING : V02-02 LOCATE CLASS 1 OR 2 L/W INTERSECTING CIRC WELDS. FOR AUSTEN. SS USE UT TO LOCATE LW'S EACH SIDE OF CW.FOR CS OR ALLOY USE VT BACKED UP BY ACID ETCH, IF FOUND ADD TO SCAN PLAN; (86E-02)
V03-02	VOLUNTARY EXAM COMPONENT LISTING : V03-02 VOLUNTARY EXAMINATION OF COMPONENTS EXAMINATION OF COMPONENTS IN COMPLIANCE WITH 86E-02 VOLUNTARY EXAMINATION COMPONENT LISTING : V03-02 VERIFICATION OF L/S INTERSECTING CIRC. WELDS EXAMINED FOR CODE CREDIT IN THE FIRST INSPECTION PERIOD.

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

UNIT: TWO      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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M                                     ISI DATA BASE M
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REFERENCE KEY	DESCRIPTION
75S-02	COMPONENT LISTING AND ISI 10 YEAR PLAN : 75S-02 ASME SECTION XI, 1974 WITH SUMMER 1975 EDITION 1975 EDITION OF ASME SECTION XI, EFN PER 940085 INSERVICE INSPECTION PROGRAM STATUS REPORT : 75S-02
86E-02	COMPONENT LISTING AND ISI 10 YEAR PLAN : 86E-02 ASME SECTION XI, 1986 EDITION, SECOND INTERVAL THE 1986 EDITION ASME SECTION XI, INTERVAL 02 ONLY INSERVICE INSPECTION PROGRAM STATUS : 86E-02

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
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REFERENCE KEY      DESCRIPTION
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DURRY             DURRY RECORD - TO BE CHANGED BY TVA AT A LATER DATE
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OWNER: TENNESSEE VALLEY AUTHORITY          PLANT: BROWNS FERRY NUCLEAR PLANT
      NUCLEAR POWER GROUP                 P.O. BOX 2000
      1101 MARKET STREET                  DECATUR, ALABAMA 35602
      CHATTANOOGA, TENNESSEE 37402

UNIT: TWO                                CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISIM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE *
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*                                     DATA ELEMENT : ISONO *
*                                     * PAGE 31 *
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REFERENCE KEY      DESCRIPTION
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CHM-1090-A01      CRD PENETRATION WELD DETAIL
CHM-1091-A01      .SUPPORT SKIRT WELD DETAIL
CHM-1094-A01      RPV NOZZLE TO VESSEL WELD DETAILS
CHM-1094-A02      RECIRC OUTLET NOZZLE TO VESSEL WELDS
CHM-1094-A03      NOZZLE TO VESSEL WELDS
CHM-1094-A04      JET PUMP INSTRUMENT NOZZLE TO VESSEL WELDS
CHM-1094-A05      CRD HYDRAL RETURN NOZZLE TO VESSEL WELDS
CHM-1094-A06      HEAD SPRAY & HEAD INSTRUMENT NOZZLE TO VESSEL
WELDS
CHM-1094-A07      HEAD VENT NOZZLE TO VESSEL WELDS
CHM-1095-A01      RPV LONGITUDINAL & CIRCUMFERENTIAL WELDS
CHM-1095-A02      VESSEL AND HEAD WELDS
CHM-1095-A03      RPV TO FLANGE WELD DETAIL
CHM-1095-A04      HEAD TO FLANGE WELD DETAIL
CHM-1095-A05      HEAD DOHE WELDS
CHM-2046-C01      RPV SEAMS AND NOZZLE LOCATIONS
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M NUTECH TENNESSEE VALLEY AUTHORITY PRISIM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
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REFERENCE KEY	DESCRIPTION
CHM-2046-C02	RPV WELD AND NOZZLE LOCATIONS (INTERIOR WALL)
CHM-2082-C01	RNCUS & RCICS HANGER IDENTIFICATION CLASS 1
CHM-2083-C01	HPCIS HANGER IDENTIFICATION CLASS 1
CHM-2084-C01	RHRS HANGER IDENTIFICATION CLASS 1
CHM-2084-C02	RHRS HANGER IDENTIFICATION CLASS 1
CHM-2085-C01	FWS HANGER IDENTIFICATION-CLASS 1
CHM-2086-C01	RECIRC HANGER IDENTIFICATION-CLASS 1
CHM-2087-C01	HSS HANGER IDENTIFICATION - CLASS 1
CHM-2087-C02	HSS HANGER IDENTIFICATION - CLASS 1
CHM-2089-C01	CSS HANGER IDENTIFICATION CLASS 1
ISI-0031-C01	CCWS WELD & VALVE IDENTIFICATION-CLASS 2
ISI-0032-C01	CCWS HANGER IDENTIFICATION-CLASS 2
ISI-0032-C02	CCWS HANGER IDENTIFICATION-CLASS 2
ISI-0040-C01	CRD DISCHARGE HEADER WELD & VALVE ID-CLASS 2
ISI-0040-C02	CRD DISCHARGE HEADER WELD & VALVE ID-CLASS 2

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OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT  
 NUCLEAR POWER GROUP P.O. BOX 2000  
 1101 MARKET STREET DECATUR, ALABAMA 35602  
 CHATTANOOGA, TENNESSEE 37402  
 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
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M NUTECH TENNESSEE VALLEY AUTHORITY PRISIM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
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M REFERENCE CLUSTER LISTING *****
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REFERENCE KEY	DESCRIPTION
ISI-0041-C01	CRD HEADER HANGER IDENTIFICATION-CLASS 2
ISI-0041-C02	CRD HEADER HANGER IDENTIFICATION-CLASS 2
ISI-0079-C01	HSS HANGER IDENTIFICATION-CLASS 2
ISI-0079-C02	HSS HANGER IDENTIFICATION-CLASS 2
ISI-0103-C01	CSS WELD & VALVE IDENTIFICATION-CLASS 2
ISI-0103-C02	CSS WELD & VALVE IDENTIFICATION-CLASS 2
ISI-0105-C01	CSS HANGER IDENTIFICATION-CLASS 2
ISI-0105-C02	CSS HANGER IDENTIFICATION-CLASS 2
ISI-0128-C01	HPCIS WELD & VALVE IDENTIFICATION-CLASS 2
ISI-0128-C02	HPCIS WELD & VALVE IDENTIFICATION-CLASS 2
ISI-0128-C03	HPCIS WELD & VALVE IDENTIFICATION-CLASS 2
ISI-0129-C01	RCICS WELD & VALVE IDENTIFICATION-CLASS 2
ISI-0130-C01	HPCIS HANGER IDENTIFICATION-CLASS 2
ISI-0130-C02	HPCIS HANGER IDENTIFICATION-CLASS 2
ISI-0130-C03	HPCIS HANGER IDENTIFICATION-CLASS 2

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* NUTECH                               TENNESSEE VALLEY AUTHORITY          PRISM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE                       *
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*                                     DATA ELEMENT : ISONO             * PAGE 34 *
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REFERENCE KEY	DESCRIPTION
ISI-0131-C01	RCICS HANGER IDENTIFICATION-CLASS 2
ISI-0132-C01	EECWS HANGER IDENTIFICATION-CLASS 3
ISI-0132-C02	EECWS HANGER IDENTIFICATION-CLASS 3
ISI-0133-C01	FPCS HANGER IDENTIFICATION-CLASS 3
ISI-0133-C02	FPCS HANGER IDENTIFICATION-CLASS 3
ISI-0133-C03	FPCS HANGER IDENTIFICATION-CLASS 3
ISI-0145-C01	RHRWS HANGER IDENTIFICATION-CLASS 3
ISI-0145-C02	RHRWS HANGER IDENTIFICATION-CLASS 3
ISI-0145-C03	RHRWS HANGER IDENTIFICATION-CLASS 3
ISI-0156-A01	JET PUMP INST. NOZZLE WELD LOCATIONS-CLASS 1
ISI-0221-C01	RESIDUAL HEAT REMOVAL SYSTEM WELD LOCATIONS-CLASS 1
ISI-0221-C02	RESIDUAL HEAT REMOVAL SYSTEM WELD LOCATIONS
ISI-0222-C01	HSS WELD & VALVE IDENTIFICATION-CLASS 1
ISI-0222-C02	HSS WELD & VALVE IDENTIFICATION-CLASS 1
ISI-0222-C03	MAIN STEAM SYSTEM DRAIN WELD LOCATIONS-CLASS 1

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

UNIT: TWO                                    CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                               TENNESSEE VALLEY AUTHORITY          PRISM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE                       *
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REFERENCE KEY	DESCRIPTION
ISI-0222-C04	MAIN STEAM SYSTEM INSTRUMENTATION WELD LOCATIONS-CLASS 1
ISI-0240-C01	EECWS HANGER IDENTIFICATION-CLASS 3
ISI-0266-C01	RPV LIGAMENTS, NUTS, STUDS, & WASHERS-CLASS 1
ISI-0269-C01	FWS WELD & VALVE IDENTIFICATION-CLASS 1
ISI-0270-C01	RECIRC WELD & VALVE IDENTIFICATION-CLASS 1
ISI-0270-C02	RECIRC WELD & VALVE IDENTIFICATION-CLASS 1
ISI-0271-C01	CSS WELD & VALVE IDENTIFICATION-CLASS 1
ISI-0272-C01	RWCU & RCIC WELD & VALVE IDENTIFICATION-CLASS 1
ISI-0272-C02	RWCU & RCIC WELD & VALVE IDENTIFICATION-CLASS 1
ISI-0272-C03	RWCU & RCIC WELD & VALVE IDENTIFICATION-CLASS 1
ISI-0273-C01	HPCIS WELD LOCATIONS-CLASS 1
ISI-0274-C01	RWCUS, RCICS, & CRDS HYDRAULIC RETURN LINE HANGER ID
ISI-0274-C02	RWCUS, RCICS, & CRDS HYDRAULIC RETURN LINE HANGER ID
ISI-0274-C03	REACTOR CORE ISOLATION COOLING SYSTEM SUPPORT LOCATIONS
ISI-0275-C01	HPCIS SUPPORT IDENTIFICATION-CLASS 1

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REFERENCE KEY	DESCRIPTION
ISI-0276-C01	RHRS SUPPORT IDENTIFICATION-CLASS 1
ISI-0277-C01	FWS SUPPORT IDENTIFICATION-CLASS 1
ISI-0278-C01	RECIR HANGER IDENTIFICATION-CLASS 1
ISI-0278-C02	RECIR HANGER IDENTIFICATION-CLASS 1
ISI-0279-C01	MSS HANGER IDENTIFICATION-CLASS 1
ISI-0279-C02	MSS HANGER IDENTIFICATION-CLASS 1
ISI-0279-C03	MSS DRAIN SUPPORT IDENTIFICATION-CLASS 1
ISI-0279-C04	MSS INSTRUMENTATION SUPPORT IDENTIFICATION-CLASS 1
ISI-0280-C01	CSS HANGER IDENTIFICATION-CLASS 1
ISI-0292-C01	CRD PENETRATION LOCATIONS, CONTROL ROD DRIVE-CLASS 1
ISI-0292-C02	REACTOR VESSEL PENETRATIONS, DRAIN NOZZLE & FLUX MONITOR NOZ
ISI-0294-A01	RPV CLOSURE HEAD ASSEMBLY WELD LOCATIONS-CLASS 1
ISI-0310-B01	RHR PUMP SUPPORTS - CLASS 2
ISI-0312-B01	MAIN STEAM SYSTEM BOLTED CONNECTIONS
ISI-0314-B01	RHR HEAT EXCHANGER WELDS-CLASS 2

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

UNIT: TWO                                CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERICAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                TENNESSEE VALLEY AUTHORITY PRISIM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE *
* REFERENCE CLUSTER LISTING *
* DATA ELEMENT : ISONO *
*                                     * PAGE 37 *
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REFERENCE KEY	DESCRIPTION
ISI-0316-A01	RPV CLAD PATCHES-CLASS 1
ISI-0324-C01	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C02	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C03	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C04	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C05	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C06	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C07	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C08	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C09	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C10	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C11	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C12	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0324-C13	RESIDUAL HEAT REMOVAL SYSTEM HANGERS - CLASS 2
ISI-0343-A01	CORE DIFFERENTIAL PRESSURE & LIQUID CONTROL NOZZLE WELD LOCATIONS-CLASS 1

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*                                     TENNESSEE VALLEY AUTHORITY *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE *
*                                     REFERENCE CLUSTER LISTING *****
*                                     DATA ELEMENT : ISONO *
*                                     * PAGE 38 *
*                                     * REVISION 0000 *
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REFERENCE KEY	DESCRIPTION
ISI-0351-A01	INSTRUMENT NOZZLE WELD LOCATIONS-CLASS 1
ISI-0368-C01	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C02	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C03	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C04	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C05	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C06	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C07	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C08	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C09	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C10	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C11	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C12	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C13	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0368-C14	EECH SUPPORT LOCATIONS - CLASS 3

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

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

UNIT: TWO

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* NUTECH                                PRISIM *
*                                     TENNESSEE VALLEY AUTHORITY *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE *
*                                     REFERENCE CLUSTER LISTING *****
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REFERENCE KEY	DESCRIPTION
ISI-0368-C15	EECH SUPPORT LOCATIONS - CLASS 3
ISI-0379-C01	STANDBY LIQUID CONTROL SUPPORT IDENTIFICATION-CLASS 1
ISI-0380-C01	STANDBY LIQUID CONTROL WELDS-CLASS 1
ISI-0383-C01	FEEDWATER INSTRUMENTATION WELDS-CLASS 1
ISI-0383-C02	FEEDWATER INSTRUMENTATION WELDS - CLASS 1
ISI-0387-C01	FEEDWATER INSTRUMENTATION SUPPORT IDENTIFICATION-CLASS 1
ISI-0391-C01	RAW COOLING WATER SYSTEM SUPPORT LOCATIONS - CLASS 3
ISI-0406-C01	RESIDUAL HEAT REMOVAL HEAT EXCHANGER WELD LOCATIONS REPLACES ISI-0314-B
ISI-0407-C01	RECIRCULATION PUMP BOLTING LOCATIONS
ISI-0408-C01	RPV CLOSURE HEAD ASSY WELD LOCATIONS, REPLACES ISI-0294-A COMPONENTS ARE NOT BROKEN DOWN INTO A - B - C SEGMENTS AS WAS THE CASE IN OLDER VERSIONS OF THE CODE.
ISI-0410-C01	JET PUMP INSTRUMENTATION NOZZLE WELD LOCATIONS
ISI-0412-C01	MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORTS-CLASS 3
ISI-0412-C02	MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORTS-CLASS 3
ISI-0412-C03	MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORTS-CLASS 3

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISIH *
*                       BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
*                       ISI DATA BASE                      *
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*                       DATA ELEMENT : ISONO              * PAGE 40 *
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REFERENCE KEY	DESCRIPTION
ISI-0412-C04	MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORTS-CLASS 3
ISI-0412-C05	MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORTS-CLASS 3
ISI-0412-C06	MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORTS-CLASS 3
ISI-0412-C07	MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORTS-CLASS 3
ISI-0412-C08	MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORTS-CLASS 3
ISI-0412-C09	MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORTS-CLASS 3
ISI-0415-C01	REACTOR VESSEL, VESSEL SUPPORTS
ISI-0415-C02	REACTOR VESSEL, VESSEL SUPPORTS
HSG-0018-C01	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0018-C02	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0018-C03	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0018-C04	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0018-C05	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0018-C06	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0018-C07	RHRS WELD & VALVE IDENTIFICATION-CLASS 2

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

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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* NUTECH                TENNESSEE VALLEY AUTHORITY          PRISIH *
*                       BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
*                       ISI DATA BASE                      *
*                       REFERENCE CLUSTER LISTING          *****
*                       DATA ELEMENT : ISONO              * PAGE 41 *
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REFERENCE KEY	DESCRIPTION
HSG-0018-C08	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0018-C09	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0018-C10	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0018-C11	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0018-C12	RHRS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0021-C01	HSS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0021-C02	HSS WELD & VALVE IDENTIFICATION-CLASS 2
HSG-0023-C01	RHRS HANGER IDENTIFICATION - CLASS 2
HSG-0023-C02	RHRS HANGER IDENTIFICATION - CLASS 2
HSG-0023-C03	RHRS HANGER IDENTIFICATION - CLASS 2
HSG-0023-C04	RHRS HANGER IDENTIFICATION - CLASS 2
H/A 00	NON-AVAIL
H/A 01	NON-AVAIL
SI-3.3.1A 01	RPV LEAK TEST, VT-2
SI-3.3.1C 01	HSS PRESSURE TEST VT-2

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE *
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REFERENCE KEY	DESCRIPTION
SI-3.3.10 01	RCICS PRESSURE TEST VT-2
SI-3.3.13 01	RHRSH PRESSURE TEST VT-2
SI-3.3.13A01	EECHS PRESSURE TEST VT-2
SI-3.3.13B01	EECHS PRESSURE TEST VT-2
SI-3.3.3 01	FPCS PRESSURE TEST VT-2
SI-3.3.6 01	CSS,PRESSURE TEST VT-2
SI-3.3.7 01	CRDS PRESSURE TEST VT-2
SI-3.3.8A 01	CRDS PRESSURE TEST VT-2
SI-3.3.8B 01	RHRSH PRESSURE TEST VT-2
SI-3.3.8C 01	RHRSH PRESSURE TEST VT-2
SI-3.3.9 01	HPCIS PRESSURE TEST VT-2

OWNER: TENNESSEE VALLEY AUTHORITY  
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P.O. BOX 2000  
DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
COMMERCIAL SERVICE DATE: MARCH 1, 1975  
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE *
* REFERENCE CLUSTER LISTING *
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REFERENCE KEY	DESCRIPTION
A01-02F1.10	CLASS 1 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
A01-02F1.10A	CLASS 1 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
A01-02F1.10B	CLASS 1 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
A01-02F1.10C	CLASS 1 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
A01-02F1.20A	CLASS 2 PIPING SUPPORTS, 1ST ADDITIONAL SAMPLE(F-A)
A01-02F1.20B	CLASS 2 PIPING SUPPORTS, 1ST ADDITIONAL SAMPLE (F-A)
A01-02F1.20C	CLASS 2 PIPING SUPPORTS, 1ST ADDITIONAL SAMPLE (F-A)
A01-02F1.30A	CLASS 3 PIPING SUPPORTS, 1ST ADDITIONAL SAMPLE (F-A)
A01-02F1.30B	CLASS 3 PIPING SUPPORTS, 1ST ADDITIONAL SAMPLE (F-A)
A01-02F1.30C	CLASS 3 PIPING SUPPORTS, 1ST ADDITIONAL SAMPLE (F-A)
A01-02F1.40C	SUPPORTS OTHER THAN PIPING, SUPPORT WITH THERMAL MOVEMENT
A02-02F1.10	CLASS 1 PIPING SUPPORTS, 2ND ADD SAMPLE (F-A)
A02-02F1.10A	CLASS 1 PIPING SUPPORTS, 2ND ADDITIONAL SAMPLE (F-A)
A02-02F1.10B	CLASS 1 PIPING SUPPORTS, 2ND ADDITIONAL SAMPLE (F-A)
A02-02F1.10C	CLASS 1 PIPING SUPPORTS, 2ND ADDITIONAL SAMPLE (F-A)

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISM *
*                                       BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2    *
*                                       ISI DATA BASE                          *
*                                       REFERENCE CLUSTER LISTING                *****
*                                       DATA ELEMENT : ITEMNO                    * PAGE    44 *
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REFERENCE KEY	DESCRIPTION
A02-02F1.20A	CLASS 2 PIPING SUPPORTS, 2ND ADDITIONAL SAMPLE (F-A)
A02-02F1.20B	CLASS 2 PIPING SUPPORTS, 2ND ADDITIONAL SAMPLE (F-A)
A02-02F1.20C	CLASS 2 PIPING SUPPORTS, 2ND ADDITIONAL SAMPLE (F-A)
A02-02F1.30A	CLASS 3 PIPING SUPPORTS, 2ND ADDITIONAL SAMPLE (F-A)
A02-02F1.30B	CLASS 3 PIPING SUPPORTS, 2ND ADDITIONAL SAMPLE (F-A)
A02-02F1.30C	CLASS 3 PIPING SUPPORTS, 2ND ADDITIONAL SAMPLE (F-A)
A02-02F1.40C	SUPPORTS OTHER THAN PIPING; SUPPORTS WITH THERMAL MOVEMENT
A03-02F1.10A	CLASS 1 PIPING SUPPORTS, 3RD ADDITIONAL SAMPLE (F-A)
A03-02F1.10B	CLASS 1 PIPING SUPPORTS, 3RD ADDITIONAL SAMPLE (F-A)
A03-02F1.10C	CLASS 1 PIPING SUPPORTS, 3RD ADDITIONAL SAMPLE (F-A)
A03-02F1.20	CLASS 2 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
A03-02F1.20A	CLASS 2 PIPING SUPPORTS, 3RD ADDITIONAL SAMPLE (F-A)
A03-02F1.20B	CLASS 2 PIPING SUPPORTS, 3RD ADDITIONAL SAMPLE (F-A)
A03-02F1.20C	CLASS 2 PIPING SUPPORTS, 3RD ADDITIONAL SAMPLE (F-A)
A03-02F1.30A	CLASS 3 PIPING SUPPORTS, 3RD ADDITIONAL SAMPLE (F-A)

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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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

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* NUTECH                                TENNESSEE VALLEY AUTHORITY          PRISM *
*                                       BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2    *
*                                       ISI DATA BASE                          *
*                                       REFERENCE CLUSTER LISTING                *****
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REFERENCE KEY	DESCRIPTION
A03-02F1.30B	CLASS 3 PIPING SUPPORTS, 3RD ADDITIONAL SAMPLE (F-A)
A03-02F1.30C	CLASS 3 PIPING SUPPORTS, 3RD ADDITIONAL SAMPLE (F-A)
A04-02F1.10A	CLASS 1 PIPING SUPPORTS, 4TH ADDITIONAL SAMPLE (F-A)
A04-02F1.10B	CLASS 1 PIPING SUPPORTS, 4TH ADDITIONAL SAMPLE (F-A)
A04-02F1.10C	CLASS 1 PIPING SUPPORTS, 4TH ADDITIONAL SAMPLE (F-A)
A04-02F1.20	CLASS 2 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)
A04-02F1.20A	CLASS 2 PIPING SUPPORTS, 4TH ADDITIONAL SAMPLE (F-A)
A04-02F1.20B	CLASS 2 PIPING SUPPORTS, 4TH ADDITIONAL SAMPLE (F-A)
A04-02F1.20C	CLASS 2 PIPING SUPPORTS, 4TH ADDITIONAL SAMPLE (F-A)
A04-02F1.30A	CLASS 3 PIPING SUPPORTS, 4TH ADDITIONAL SAMPLE (F-A)
A04-02F1.30B	CLASS 3 PIPING SUPPORTS, 4TH ADDITIONAL SAMPLE (F-A)
A04-02F1.30C	CLASS 3 PIPING SUPPORTS, 4TH ADDITIONAL SAMPLE (F-A)
A05-02B5.10	RV NOZZLE-TO-SAFE END WELDS
A05-02B5.130	DISSIMILIAR METAL PIPING BUTT WELDS, >= 4" NPS
A06-02B7.50	PIPING BOLTS, STUDS, AND NUTS, <= 2 INCHES DIA.

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* NUTECH                               PRISM *
* TENNESSEE VALLEY AUTHORITY           *
* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
* ISI DATA BASE                       *
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REFERENCE KEY	DESCRIPTION
A06-02B7.70	VALVE BOLTS, STUDS, NUTS, <= 2 INCHES DIA.
A07-02B9.11	CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE >= 4 IN.
A07-02B9.21	CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE < 4 IN.
A07-02B9.40	PIPING SOCKET WELDS
A08-02B7.50	PIPING BOLTS, STUDS, AND NUTS, <= 2 INCHES DIA.
A08-02B7.70	VALVE BOLTS, STUDS, AND NUTS ( < = 2 INCHES )
A09-02B9.11	CIRCUMFERENTIAL PIPING WELDS, NOMINAL SIZE >= 4 IN.
A09-02B9.21	CIRCUMFERENTIAL PIPING WELDS, NOMINAL SIZE < 4 IN.
A09-02B9.40	PIPE SOCKET WELDS
A10-02F1.40	SUPPORTS OTHER THAN PIPING, CL. 1, 2, 3, & MC 1ST ADD. SAMPLE (F-A)
A10-02F1.40B	1ST ADD. SAMPLE OF PUMP COMPONENT SUPPORTS, ALL CLASSES (F-A)
A10-02F1.40C	1ST ADD. SAMPLE OF PUMP COMPONENT SUPPORTS, ALL CLASSES (F-A)
A11-02F1.30	CLASS 3 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
A11-02F1.30A	1ST ADD. SAMPLE OF CLASS 3 PIPING SUPPORTS (F-A)
A11-02F1.30B	1ST ADD. SAMPLE OF CLASS 3 PIPING SUPPORTS (F-A)

OWNER: TENNESSEE VALLEY AUTHORITY  
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 P.O. BOX 2000  
 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
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* NUTECH                               PRISM *
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* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
* ISI DATA BASE                       *
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REFERENCE KEY	DESCRIPTION
A11-02F1.30C	1ST ADD. SAMPLE OF CLASS 3 PIPING SUPPORTS (F-A)
A12-02F1.30	CLASS 3 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)
A12-02F1.30A	2ND ADD. SAMPLE OF CLASS 3 PIPING SUPPORTS (F-A)
A12-02F1.30B	2ND ADD. SAMPLE OF CLASS 3 PIPING SUPPORTS (F-A)
A12-02F1.30C	2ND ADD. SAMPLE OF CLASS 3 PIPING SUPPORTS (F-A)
A13-02B5.20	RV NOZZLE-TO-SAFE END WELDS < NPS 4
A14-02C2.20	NOZZLES IN PRESSURE VESSELS > 1/2" "NOMINAL THICKNESS"
B01-02NU0619	IE BULLETIN 80-13 AS IMPLEMENTED BY MHI-182 REQUIRES EXAMINATION OF THE CORE SPRAY SPARGER EVERY REFUELING OUTAGE.
B02-02NU0313	MUREG-0313, REV. 2 (IGSCC EXAMS)
B03-02IE8013	IE BULLETIN 80-13 AS IMPLEMENTED BY MHI-182 REQUIRES EXAMINATION OF THE CORE SPRAY SPARGER EVERY REFUELING OUTAGE.
B04-02TS46G	PIPE WHIP SURVEILLANCE EXAMS
B05-02B1.11	RV CIRCUMFERENTIAL SHELL WELDS
B05-02B1.12	RV LONGITUDINAL SHELL WELDS
B05-02B1.50	RV REPAIR WELDS



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M                                     REFERENCE CLUSTER LISTING *****
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REFERENCE KEY	DESCRIPTION
B05-021.11	PRESSURE RETAINING WELDS IN REACTOR VESSEL
B06-02INT	RPV INTERIOR EXAMINATIONS
B06-02SLEEVE	EXAMINATION OF THERMAL SLEEVES
B12-02NU0313	EXPANDED SAMPLE FOR IGSCC EXAMS
D01-02NU0313	NRC INSPECTION REPORT 83-03, ITEM NO. 86-03-03 REQUIRES RE-EXAMINATION EVERY PERIOD.
D01-0286-03	WELD DSRHR-2-05A LACK OF FUSION
D02-02B13.10	CLADDING INDICATION AT 15 DEG. AZIMUTH AND 32 3/4" BELOW FLANGE SHALL BE RE-EXAMINED IN CYCLE 6, 7, AND 8.
D02-02CLAD	VT-1 EXAMINATION OF RPV CLADDING (SEC. 7.11.2 OF 2-SI 4.6.G)
D03-02HU0313	NRC COMMITMENT NCO 850264005 REQUIRES RE-EXAM IN CYCLE 6.
D03-02WELDS	UT EXAMINATION OF IGSCC INDICATIONS FOR CYCLE 06 SEC. 7.11.3 OF 2-SI 4.6.G
D04-02SUPTS	VT-3 EXAMINATION OF HPCI DISCHARGE SUPPORTS SEC 7.11.4 OF 2-SI 4.6.G
D05-02HU0313	RE-EXAM IN CYCLE 6 PER ECN P5215.
D05-02WELD	IGSCC EXAMINATION OF GR-2-15(OL) FOR CYCLE 06 SEC. 7.11.5 OF 2-SI 4.6.G

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M  NUTECH                                PRISM  M
M                                     TENNESSEE VALLEY AUTHORITY M
M                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M                                     ISI DATA BASE M
M                                     REFERENCE CLUSTER LISTING *****
M                                     DATA ELEMENT : ITEMNO M PAGE 49 M
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REFERENCE KEY	DESCRIPTION
EX1-02N/A	EXAMS NOT REQUIRED, FOR TRACKING PURPOSES ONLY
R01-02F1.10	CLASS 1 PIPING SUPPORTS, REPAIR OF 1ST ADD. SAMPLE (F-A)
R01-02F1.10A	REPAIR OF CLASS 1 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
R01-02F1.10B	REPAIR OF CLASS 1 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
R01-02F1.10C	REPAIR OF CLASS 1 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
R01-02F1.20A	REPAIR OF CLASS 2 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
R01-02F1.20B	REPAIR OF CLASS 2 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
R01-02F1.20C	REPAIR OF CLASS 2 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
R01-02F1.30A	REPAIR OF CLASS 3 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
R01-02F1.30B	REPAIR OF CLASS 3 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
R01-02F1.30C	REPAIR OF CLASS 3 PIPING SUPPORTS, 1ST ADD. SAMPLE (F-A)
R01-02F1.40C	SUPPORTS OTHER THAN PIPING, SUPPORTS WITH THERMAL MOVEMENT
R02-02F1.10	CLASS 1 PIPING SUPPORTS, REPAIR OF 2ND ADD. SAMPLE (F-A)
R02-02F1.10A	REPAIR OF CLASS 1 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)
R02-02F1.10B	REPAIR OF CLASS 1 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)

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# NUTECH TENNESSEE VALLEY AUTHORITY PRISM #
# BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 #
# ISI DATA BASE #
# REFERENCE CLUSTER LISTING *****
# DATA ELEMENT : ITEMNO # PAGE 50 #
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REFERENCE KEY	DESCRIPTION
R02-02F1.10C	REPAIR OF CLASS 1 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)
R02-02F1.20A	REPAIR OF CLASS 2 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)
R02-02F1.20B	REPAIR OF CLASS 2 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)
R02-02F1.20C	REPAIR OF CLASS 2 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)
R02-02F1.30A	REPAIR OF CLASS 3 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)
R02-02F1.30B	REPAIR OF CLASS 3 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)
R02-02F1.30C	REPAIR OF CLASS 3 PIPING SUPPORTS, 2ND ADD. SAMPLE (F-A)
R02-02F1.40C	SUPPORTS OTHER THAN PIPING; SUPPORTS WITH THERMAL MOVEMENT
R03-02F1.10A	REPAIR OF CLASS 1 PIPING SUPPORTS, 3RD ADD. SAMPLE (F-A)
R03-02F1.10B	REPAIR OF CLASS 1 PIPING SUPPORTS, 3RD ADD. SAMPLE (F-A)
R03-02F1.10C	REPAIR OF CLASS 1 PIPING SUPPORTS, 3RD ADD. SAMPLE (F-A)
R03-02F1.20	CLASS 2 PIPING SUPPORTS, REPAIR OF 1ST ADD. SAMPLE (F-A)
R03-02F1.20A	REPAIR OF CLASS 2 PIPING SUPPORTS, 3RD ADD. SAMPLE (F-A)
R03-02F1.20B	REPAIR OF CLASS 2 PIPING SUPPORTS, 3RD ADD. SAMPLE (F-A)
R03-02F1.20C	REPAIR OF CLASS 2 PIPING SUPPORTS, 3RD ADD. SAMPLE (F-A)

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

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# NUTECH TENNESSEE VALLEY AUTHORITY PRISM #
# BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 #
# ISI DATA BASE #
# REFERENCE CLUSTER LISTING *****
# DATA ELEMENT : ITEMNO # PAGE 51 #
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REFERENCE KEY	DESCRIPTION
R03-02F1.30A	REPAIR OF CLASS 3 PIPING SUPPORTS, 3RD ADD. SAMPLE (F-A)
R03-02F1.30B	REPAIR OF CLASS 3 PIPING SUPPORTS, 3RD ADD. SAMPLE (F-A)
R03-02F1.30C	REPAIR OF CLASS 3 PIPING SUPPORTS, 3RD ADD. SAMPLE (F-A)
R04-02F1.10A	REPAIR OF CLASS 1 PIPING SUPPORTS, 4TH ADD. SAMPLE (F-A)
R04-02F1.10B	REPAIR OF CLASS 1 PIPING SUPPORTS, 4TH ADD. SAMPLE (F-A)
R04-02F1.10C	REPAIR OF CLASS 1 PIPING SUPPORTS, 4TH ADD. SAMPLE (F-A)
R04-02F1.20	CLASS 2 PIPING SUPPORTS, REPAIR OF 2ND ADD. SAMPLE (F-A)
R04-02F1.20A	REPAIR OF CLASS 2 PIPING SUPPORTS, 4TH ADD. SAMPLE (F-A)
R04-02F1.20B	REPAIR OF CLASS 2 PIPING SUPPORTS, 4TH ADD. SAMPLE (F-A)
R04-02F1.20C	REPAIR OF CLASS 2 PIPING SUPPORTS, 4TH ADD. SAMPLE (F-A)
R04-02F1.30A	REPAIR OF CLASS 3 PIPING SUPPORTS, 4TH ADD. SAMPLE (F-A)
R04-02F1.30B	REPAIR OF CLASS 3 PIPING SUPPORTS, 4TH ADD. SAMPLE (F-A)
R04-02F1.30C	REPAIR OF CLASS 3 PIPING SUPPORTS, 4TH ADD. SAMPLE (F-A)
R05-02B5.10	RV NOZZLE-TO-SAFE END WELDS
R05-02B5.130	DISSIMILIAR METAL PIPING BUTT WELDS, NOM. PIPE SIZE >= 4"

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N          TENNESSEE VALLEY AUTHORITY      N
N          BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2      N
N          ISI DATA BASE                               N
N          REFERENCE CLUSTER LISTING                *****
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REFERENCE KEY	DESCRIPTION
R06-02B7.50	PIPING BOLTS, STUDS, AND NUTS ( < = 2 INCHES)
R06-02B7.80	CRD HOUSING BOLTS, STUDS, AND NUTS, <= 2 INCHES.
R07-02B9.11	CIRCUMFERENTIAL PIPING WELDS, NOMINAL PIPE SIZE >= 4 IN.
R07-02B9.21	CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE < 4 IN.
R07-02B9.40	PIPING SOCKET WELDS
R08-02B7.70	VALVE BOLTS, STUDS, AND NUTS ( < = 2 INCHES)
R09-02B9.40	PIPE SOCKET WELDS
R10-02F1.40	SUPPORTS OTHER THAN PIPING, CL. 1, 2, 3, & MC REPAIR OF 1ST ADD. SAMPLE
R10-02F1.40B	REPAIR OF PUMP COMPONENT SUPPORTS, ALL CLASSES (F-A)
R10-02F1.40C	REPAIR OF PUMP COMPONENT SUPPORTS, ALL CLASSES (F-A)
R11-02F1.30	CLASS 3 PIPING SUPPORTS, REPAIR OF 1ST ADD. SAMPLE (F-A)
R11-02F1.30A	REPAIR OF CLASS 3 PIPING SUPPORTS (F-A)
R11-02F1.30B	REPAIR OF CLASS 3 PIPING SUPPORTS (F-A)
R11-02F1.30C	REPAIR OF CLASS 3 PIPING SUPPORTS (F-A)
R12-02F1.30	CLASS 3 PIPING SUPPORTS, REPAIR OF 2ND ADD. SAMPLE (F-A)

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

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N  HUTECH                               PRISIM  N
N          TENNESSEE VALLEY AUTHORITY      N
N          BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2      N
N          ISI DATA BASE                               N
N          REFERENCE CLUSTER LISTING                *****
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REFERENCE KEY	DESCRIPTION
R12-02F1.30A	REPAIR OF CLASS 3 PIPING SUPPORTS (F-A)
R12-02F1.30B	REPAIR OF CLASS 3 PIPING SUPPORTS (F-A)
R12-02F1.30C	REPAIR OF CLASS 3 PIPING SUPPORTS (F-A)
R13-02B5.20	RV NOZZLE-TO-SAFE END WELDS < NPS 4
R14-02C2.20	NOZZLES IN PRESSURE VESSELS > 1/2" "NOMINAL THICKNESS"
R15-02D1.20	INTEGRAL ATTACHMENT-COMPONENT SUPPORTS AND RESTRAINTS
R15-02D1.30	INTEGRAL ATTACHMENT-MECHANICAL AND HYDRAULIC SNUBBERS
R15-02F1.10	PSI EXAMS FOR CLASS 1 SUPPORTS
R15-02F1.10B	BASELINE OF SUPPORTS, CLASS 1
R15-02F1.10C	BASELINE OF SUPPORTS, CLASS 2
R16-02D2.20	INTEGRAL ATTACHMENT-COMPONENT SUPPORTS AND RESTRAINTS
R16-02D2.30	INTEGRAL ATTACHMENT-MECHANICAL AND HYDRAULIC SNUBBERS
R17-02F1.20C	BASELINE EXAMS OF F-A CLASS 2 SUPPORTS
R17-02F1.30	PSI EXAMS OF SUPPORTS
R17-02F1.30C	BASELINE OF SUPPORTS, CLASS 3



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* NUTECH                                PRISIM *
* TENNESSEE VALLEY AUTHORITY            *
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* ISI DATA BASE                        *
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REFERENCE KEY	DESCRIPTION
R19-02B7.10	FLUX MONITOR NOZZLES BOLTED CONNECTIONS
R19-02B7.50	PIPING BOLTS, STUDS, AND NUTS (< = 2 INCHES )
R19-02B7.60	PUMP BOLTS, STUDS, AND NUTS (< = 2 INCHES )
R19-02B7.70	VALVE BOLTS, STUDS, AND NUTS (< = 2 INCHES )
R19-02B7.80	CRD HOUSING BOLTS, STUDS, AND NUTS <= 2 INCHES
R20-02B12.50	VALVE BODY, EXCEEDING 4" NOMINAL PIPE SIZE
R21-02B6.180	PUMP STUDS > 2" DIA.
R21-02B6.200	PUMP NUTS, WASHERS, > 2" DIA.
R21-02B6.30	RV CLOSURE STUDS, WHEN REMOVED (> 2 INCHES )
R21-02B6.50	RV CLOSURE WASHERS, BUSHINGS (> 2 INCHES)
R22-02B5.10	RV NOZZLE-TO-SAFE END WELDS
R22-02B5.130	DISSIMILIAR METAL PIPING BUTT WELDS, NOM PIPE SIZE >= 4 IN.
R23-02B5.130	DISSIMILIAR METAL WELDS
R23-02B9.11	CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE > 4 INCH
R23-02B9.21	CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE < 4 INCH

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
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* NUTECH                                PRISIM *
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REFERENCE KEY	DESCRIPTION
R23-02B9.31	PIPE BRANCH CONN WELDS, NOMINAL PIPE SIZE >= 4 INCHES
R23-02B9.40	PIPING SOCKET WELDS
R24-02B12.20	PUMP CASINGS (B-L-2)
R25-02C5.11	PIPE CIRC WELDS >= 3/8" NOM. THCK. > NPS 4" C-F-1
R25-02C5.12	PIPE LONG WELDS >= 3/8" NOM THCK. >NPS 4" C-F-1
R25-02C5.51	CIRC PIPING WELDS >= 3/8" NOM. THK. > 4 IN NPS. C-F-2
R26-02B10.10	INTERCAL ATTACHMENTS FOR PIPING, CLASS 1
R26-02C3.20	PIPING INTERGALLY ATTACHMENTS, CLASS 2
R27-02B15.10	PRESSURE RETAINING COMPONENTS, LEAKAGE TEST
S01-02C5.51	SUCCESSIVE EXAMS IN CIRC. PIPING WELDS >= 3/8" NOM. THCK.
V01-01B5.10	VOLUNTARY EXAMS OF B-F DISSIMILIAR METAL WELDS
V01-01B5.130	VOLUNTARY EXAMS OF B-F DISSIMILIAR METAL WELDS
V01-01B9.11	VOLUNTARY EXAMS OF B-J WELDS
V01-01C5.11	VOLUNTARY EXAMS OF C-F-1 WELDS
V01-02B5. 10	VOLUNTARY EXAMS FOR B-F DISSIMILIAR METAL WELDS

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REFERENCE KEY	DESCRIPTION
V01-02B5.130	VOLUNTARY EXAMS FOR B-F DISSIMILIAR METAL WELDS
V01-02B6. 10	RPV NUTS
V01-02B6. 20	RPV STUDS
V01-02B6. 30	RPV CLOSURE HEAD NUTS, STUDS, WHEN REMOVED, > 2 INCHES
V01-02B6. 40	RPV LIGAMENTS
V01-02B6. 50	RPV BUSHINGS, WASHERS
V01-02B7.50	VOLUNTARY EXAM OF BOLTING
V01-02B7.70	VALVE BOLTS, STUDS, NUTS, <= 2 INCHES
V01-02B9.11	VOLUNTARY EXAMS FOR B-J WELDS
V01-02C5.11	VOLUNTARY EXAMS FOR C-F-1, CLASS 2 WELDS
V01-02XU0313	VOLUNTARY EXAMS FOR DETECTION OF IGSCC
V02-02B5.130	EDDY CURRENT EXAMS OF WELDS FOR LONG SEAMS
V02-02B9.11	EDDY CURRENT EXAMS OF WELDS FOR LONG SEAMS
V02-02C5.11	EXAMS OF WELDS FOR LOCATION OF LONG SEAMS
V02-02C5.51	CIRC PIPING WELDS >= 3/8" NOMINAL THICKNESS

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

UNIT: TWO                                      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT NOT REQUIRED

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BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
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REFERENCE KEY	DESCRIPTION
V03-02B9.11	CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE >= 4 IN.
V03-02C-F-2	PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING
V03-02C5.11	PIPING CIRCUMFERENTIAL WELDS >=3/8" NOM. THCK>NPS. 4 (C-F-1)
75S-02B4.10	EXAMINATION OF CLASS 1 SUPPORTS, BFN PER 940085
75S-02C2.5	EXAMINATION OF CLASS 2 INTEGRAL ATTACHMENTS, BFN PER 940085
86E-02B1	+++ CLASS 1 COMPONENTS +++
86E-02B1.	+++ EXAMINATION CATEGORY B-A +++
86E-02B1.1	+++ REACTOR VESSELS +++
86E-02B1.10	+++ SHELL WELDS +++
86E-02B1.11	RV CIRCUMFERENTIAL SHELL WELDS
86E-02B1.12	RV LONGITUDINAL SHELL WELDS
86E-02B1.20	+++ HEAD WELDS +++
86E-02B1.21	RV CIRCUMFERENTIAL HEAD WELDS
86E-02B1.22	RV MERIDIONAL HEAD WELD
86E-02B1.30	RV SHELL-TO-FLANGE WELD

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REFERENCE KEY	DESCRIPTION
86E-02B1.40	RV HEAD-TO-FLANGE WELD
86E-02B1.50	REPAIR WELDS TO THE RPV
86E-02B1.51	RV BELTLINE REGION REPAIR WELDS
86E-02B10.10	PIPING INTEGRALLY WELDED ATTACHMENTS
86E-02B10.20	PUMP INTEGRALLY WELDED ATTACHMENTS
86E-02B10.30	VALVE INTEGRALLY WELDED ATTACHMENTS
86E-02B11.20	LEAKAGE & HYDRO
86E-02B12.10	PUMP CASING WELDS (B-L-1)
86E-02B12.20	PUMP CASING (B-L-2)
86E-02B12.30	VALVES, NOMINAL PIPE SIZE < 4 IN VALVE BODY WELDS (B-M-1)
86E-02B12.40	VALVES, NOMINAL PIPE SIZE >= 4 IN. VALVE BODY WELDS(B-M-1)
86E-02B12.50	VALVES, NOMINAL PIPE SIZE > 4 IN. VALVE BODY WELDS (B-M-2)
86E-02B13.10	RV VESSEL INTERIOR
86E-02B13.20	BWR RV INTERIOR ATTACHMENTS WITHIN BELTLINE REGION (B-N-2)
86E-02B13.30	BWR RV INTERIOR ATTACHMENTS BEYOND BELTLINE REGION (B-N-2)

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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

UNIT: TWO  
CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                PRISM *
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* TENNESSEE VALLEY AUTHORITY           *
* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
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REFERENCE KEY	DESCRIPTION
86E-02B13.40	BWR RV CORE SUPPORT STRUCTURE (B-N-2)
86E-02B14.10	RV WELDS IN CRD HOUSINGS (B-0)
86E-02B15.10	RV PRESSURE RETAINING BOUNDARY-SYSTEM LEAKAGE TEST (B-P)
86E-02B15.11	RV PRESSURE RETAINING BOUNDARY-SYSTEM HYDRO TEST (B-P)
86E-02B15.50	PIPING PRESSURE RETAINING BOUNDARY SYSTEM LEAKAGE TEST VT-2
86E-02B15.60	PRESSURE TEST VT-2 OF PUMPS
86E-02B15.70	PRESSURE TEST VT-2 OF VALVES
86E-02B2.	+++ EXAMINATION CATEGORY B-B +++
86E-02B2.1	+++ PRESSURIZER +++
86E-02B2.10	+++ SHELL-TO-HEAD WELDS +++
86E-02B2.11	PRZ CIRCUMFERENTIAL SHELL TO HEAD WELDS
86E-02B2.12	PRZ LONGITUDINAL SHELL TO HEAD WELDS
86E-02B2.20	+++ HEAD WELDS +++
86E-02B2.21	PRZ CIRCUMFERENTIAL HEAD WELDS
86E-02B2.22	PRZ MERIDIONAL HEAD WELDS

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* NUTECH                                TENNESSEE VALLEY AUTHORITY PRISIM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
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REFERENCE KEY	DESCRIPTION
86E-02B2.5	+++ HEAT EXCHANGER, PRIMARY SIDE, HEAD +++
86E-02B2.50	+++ HEAD WELDS +++
86E-02B2.51	HX PRIMARY SIDE CIRCUMFERENTIAL HEAD WELDS
86E-02B2.52	HX PRIMARY MERIDIONAL HEAD WELDS
86E-02B2.6	+++ HEAT EXCHANGERS (PRIMARY SIDE) - SHELL +++
86E-02B2.60	HX PRIMARY SIDE TUBESHEET-TO-HEAD WELDS
86E-02B2.70	HX PRIMARY SIDE LONGITUDINAL WELDS
86E-02B2.80	HX PRIMARY SIDE TUBESHEET-TO-SHELL WELDS
86E-02B3. 9,	+++ PROGRAM B REQUIREMENTS +++ 1ST INTERVAL = 10 YEARS 2ND INTERVAL = 10 YEARS (9 YEARS FOR BFH UNIT 2) 3RD INTERVAL = 10 YEARS 4TH INTERVAL = 10 YEARS
86E-02B3. 90	RV NOZZLE TO VESSEL WELDS - PROGRAM B
86E-02B3.100	RV NOZZLE INSIDE RADIUS SECTION - PROGRAM B
86E-02B3.150	HX PRIMARY NOZZLE-TO-VESSEL WELDS - PROGRAM B
86E-02B3.160	HX PRIMARY NOZZLE INSIDE RADIUS SECTION - PROGRAM B

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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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                TENNESSEE VALLEY AUTHORITY PRISIM *
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REFERENCE KEY	DESCRIPTION
86E-02B4	+++ EXAMINATION CATEGORY B-E +++
86E-02B4.10	+++ PARTIAL PENETRATION WELDS +++
86E-02B4.11	VESSEL NOZZLE PARTIAL PENETRATION WELDS
86E-02B4.12	CONTROL ROD DRIVE NOZZLE PARTIAL PENETRATION WELDS
86E-02B4.13	INSTRUMENTATION NOZZLE PARTIAL PENETRATION WELDS
86E-02B5.	+++ EXAMINATION CATEGORY B-F, DISSIMILIAR METAL WELDS +++
86E-02B5. 1	+++ REACTOR VESSEL +++
86E-02B5. 10	RV NOZZLE-TO-SAFE END BUTT WELDS >= 4 INCHES
86E-02B5. 20	RV NOZZLE-TO-SAFE END BUTT WELDS, NPS < 4 INCHES
86E-02B5. 30	RV NOZZLE-TO-SAFE END SOCKET WELDS
86E-02B5.10-	+++ HEAT EXCHANGERS +++
86E-02B5.100	HX NOZZLE-TO-SAFE END BUTT WELDS, NOM. PIPE SIZE >= 4 IN.
86E-02B5.110	HX NOZZLE-TO-SAFE END BUTT WELDS, NOM. PIPE SIZE < 4 IN.
86E-02B5.120	HX NOZZLE-TO-SAFE END SOCKET WELDS
86E-02B5.13-	+++ PIPING, CATEGORY B-F +++

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M NUTECH TENNESSEE VALLEY AUTHORITY PRISIM M
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REFERENCE KEY	DESCRIPTION
86E-02B5.130	DISSIMILIAR METAL PIPING BUTT WELDS, NOM. PIPE SIZE >= 4 IN.
86E-02B5.140	DISSIMILIAR METAL PIPING BUTT WELDS, NOM. PIPE SIZE < 4 IN.
86E-02B5.150	DISSIMILIAR METAL PIPING SOCKET WELDS
86E-02B6.	+++ EXAMINATION CATEGORY B-G-1, BOLTING >.2 IN. IN DIA. +++
86E-02B6. 10	RPV CLOSURE HEAD NUTS > 2 INCHES
86E-02B6. 20	RPV CLOSURE HEAD STUDS IN PLACE, > 2 INCHES
86E-02B6. 30	RPV CLOSURE HEAD STUDS, WHEN REMOVED, > 2 INCHES
86E-02B6. 40	RPV THREADS IN FLANGE
86E-02B6. 50	RPV CLOSURE WASHERS, BUSHINGS, > 2 INCHES
86E-02B6.12-	+++ HEAT EXCHANGERS +++
86E-02B6.120	HX BOLTS AND STUDS, > 2 INCHES
86E-02B6.130	HX FLANGE SURFACE WHEN CONNECTION DISASSEMBLED, > 2 INCHES
86E-02B6.140	HX NUTS, BUSHINGS, AND WASHERS, > 2 INCHES
86E-02B6.180	PUMP STUDS, > 2" DIA.
86E-02B6.190	PUMP FLANGES

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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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISIM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M REFERENCE CLUSTER LISTING *****
M DATA ELEMENT : ITEMNO M PAGE 63 M
M REVISION 0000 M
M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
86E-02B6.200	PUMP NUTS, WASHERS, > 2" DIA.
86E-02B7.	+++ EXAMINATION CATEGORY B-G-2, BOLTING 2 IN. & LESS IN DIA.
86E-02B7.10	FLUX MONITOR NOZZLES BOLTED CONNECTIONS
86E-02B7.4	+++ HEAT EXCHANGERS +++
86E-02B7.40	HX BOLTS, STUDS, AND NUTS, <= 2 INCHES
86E-02B7.50	PIPING BOLTS, STUDS, AND NUTS, <= 2 INCHES
86E-02B7.60	PUMP BOLTS, STUDS, AND NUTS, <= 2 INCHES
86E-02B7.70	VALVE BOLTS, STUDS, AND NUTS, <= 2 INCHES
86E-02B7.80	CRD HOUSING BOLTS, STUDS, AND NUTS <= 2 INCHES
86E-02B8.	+++ EXAMINATION CATEGORY B-H, IA'S FOR VESSELS +++
86E-02B8.10	RV INTEGRALLY WELDED ATTACHMENTS
86E-02B8.40	HX INTEGRALLY WELDED ATTACHMENTS
86E-02B9.	+++ EXAMINATION CATEGORY B-J, PRESS RETAIN WELDS IN PIPING+++
86E-02B9.10	+++ NOMINAL PIPE SIZE >= 4 INCHES +++
86E-02B9.11	CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE >= 4 IN.

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Page 2 of 2

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M NUTECH TENNESSEE VALLEY AUTHORITY PRISM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M REFERENCE CLUSTER LISTING *****
M DATA ELEMENT : ITEMNO M PAGE 64 M
M REVISION 0000 M
M DATE 11/04/94 M
*****

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REFERENCE KEY	DESCRIPTION
86E-02B9.12	LONGITUDINAL WELDS IN PIPING, NOMINAL PIPE SIZE >= 4 IN.
86E-02B9.21	CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE < 4 IN.
86E-02B9.22	LONGITUDINAL WELDS IN PIPING, NOMINAL PIPE SIZE < 4 IN.
86E-02B9.30	+++ BRANCH PIPE CONNECTION WELDS +++
86E-02B9.31	BRANCH PIPE CONNECTION WELDS, NOMINAL PIPE SIZE >= 4 IN.
86E-02B9.32	BRANCH PIPE CONNECTION WELDS, NOMINAL PIPE SIZE < 4 IN
86E-02B9.40	SOCKET WELDS
86E-02C1	+++ CLASS 2 COMPONENTS +++
86E-02C1.10	PRESSURE VESSEL SHELL CIRCUMFERENTIAL WELDS (C-A)
86E-02C1.20	PRESSURE VESSEL HEAD CIRCUMFERENTIAL WELDS (C-A)
86E-02C1.30	PRESSURE VESSEL TUBESHEET-TO-SHELL WELDS (C-A)
86E-02C2.10	NOZZLES IN VESSELS <= 1/2" NOMINAL THICKNESS(C-B)
86E-02C2.11	NOZZLE TO SHELL (OR HEAD) WELDS <= 1/2" NOM THICKNESS (C-B)
86E-02C2.20	NOZZLES W/O REINFORC PLATE IN VESSELS > 1/2" NOM. THK. (C-B)
86E-02C2.21	NOZ-TO-SHELL (OR HEAD) WELDS IN VES > 1/2" NOM THK. (C-B)

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED
COMMERCIAL SERVICE DATE: MARCH 1, 1975
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M REFERENCE CLUSTER LISTING *****
M DATA ELEMENT : ITEMNO M PAGE 65 M
M REVISION 0000 M
M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
86E-02C2.22	NOZ INSIDE RADIUS SEC. IN VES. > 1/2" NOM. THK. (C-B)
86E-02C2.30	NOZZLE WITH REINFORC PLATE IN VES. > 1/2" NOM. THK. (C-B)
86E-02C2.31	REINFORCING PLATE WELDS TO NOZ. & VES. > 1/2" NOM. THK.(C-B)
86E-02C2.32	NOZ-TO-SHELL (OR HEAD) WELDS W/ INSIDE VES. ACCESS. (C-B)
86E-02C2.33	NOZ-TO-SHELL (OR HEAD) WELDS W/INSIDE OF VES. INACCESS.(C-B)
86E-02C3.10	PRESSURE VESSEL INTEGRALLY WELDED ATTACHMENTS (C-C)
86E-02C3.20	PIPING INTEGRALLY WELDED ATTACHMENTS (C-C)
86E-02C3.30	PUMP INTEGRALLY WELDED ATTACHMENTS (C-C)
86E-02C3.40	VALVE INTEGRALLY WELDED ATTACHMENTS (C-C)
86E-02C4.10	PRESSURE VESSEL BOLTS AND STUDS (C-D)
86E-02C5.10	+++ PIPING WELDS >= 3/8" NOM. THK. FOR PIPE > NPS 4 (C-F-1)
86E-02C5.11	PIPING CIRCUMFERENTIAL WELDS >= 3/8" NOM. THK.>NPS 4 (C-F-1)
86E-02C5.12	PIPING LONGITUDINAL WELDS >= 3/8" NOM. THK. > NPS 4 (C-F-1)
86E-02C5.20	+++ PIPING WELDS >1/5" NOM.THK.>= NPS 2 & <= NPS 4 (C-F-1)++
86E-02C5.21	CIRCUMFERENTIAL WELDS FOR ABOVE INFO. ON C5.20 (C-F-1)

Page 1 of 1

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N NUTECH PRISM
N TENNESSEE VALLEY AUTHORITY
N BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
N ISI DATA BASE
N REFERENCE CLUSTER LISTING *****
N DATA ELEMENT : ITEMNO M PAGE 66 M
N M REVISION 0000 M
N M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
86E-02C5.22	LONGITUDINAL WELDS ON ABOVE INFO. C5.20 (C-F-1)
86E-02C5.30	SOCKET WELDS (C-F-1)
86E-02C5.40	+++ PIPE BRANCH CONN. OF BRANCH PIPING >= NPS 2 (C-F-1) +++
86E-02C5.41	CIRCUMFERENTIAL WELDS, PIPE BR. CONN. >= NPS 2 (C-F-1)
86E-02C5.42	LONGITUDINAL WELDS, PIPING BR. CONN. >= NPS 2 (C-F-1)
86E-02C5.50	+++ PIPING WELDS >= 3/8" NOM. THK. PIPING > 4 NPS (C-F-2)+++
86E-02C5.51	CIRCUMFERENTIAL WELDS FOR ABOVE INFO ON C5.50 (C-F-2)
86E-02C5.52	LONGITUDINAL WELDS FOR ABOVE INFO ON C5.50 (C-F-2)
86E-02C5.60	+++ PIPING WELDS > 1/5" NOM. THK. >= NPS 2 & <= 4 (C-F-2)+++
86E-02C5.61	CIRCUMFERENTIAL WELDS FOR ABOVE INFO. ON C5.60 (C-F-2)
86E-02C5.62	LONGITUDINAL WELDS FOR ABOVE INFO ON C5.60 (C-F-2)
86E-02C5.70	SOCKET WELDS (C-F-2)
86E-02C5.80	+++ PIPE BR. CONN. OF BRANCH PIPING >= NPS 2 (C-F-2) +++
86E-02C5.81	CIRCUMFERENTIAL WELDS FOR ABOVE INFO. ON C5.80 (C-F-2)
86E-02C5.82	LONGITUDINAL WELDS ON ABOVE INFO. FOR C5.80 (C-5-2)

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

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*****
N NUTECH PRISM
N TENNESSEE VALLEY AUTHORITY
N BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
N ISI DATA BASE
N REFERENCE CLUSTER LISTING *****
N DATA ELEMENT : ITEMNO M PAGE 67 M
N M REVISION 0000 M
N M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
86E-02C6.10	PUMP CASING WELDS (C-G)
86E-02C6.20	VALVE BODY WELDS (C-G)
86E-02C7.10	PRESSURE VESSEL, PRESSURE RETAINING COMPS. OPERATIONAL (C-H)
86E-02C7.30	PRESSURE TEST VT-2 OF PIPES
86E-02C7.50	PRESSURE TEST VT-2 OF PUMPS
86E-02C7.70	PRESSURE TEST VT-2 OF VALVES
86E-02D1.20	INTEGRAL ATTACHMENTS, COMPONENT SUPPORTS & RESTRAINTS (D-A) SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
86E-02D2.10	PRESSURE TEST VT-2 OF COMPONENTS
86E-02D2.20	INTEGRAL ATTACHMENTS, COMPONENT SUPPORTS & ATTACHMENTS (D-B) SYSTEMS IN SUPPORT OF ECCN, CHR, ATMOSPHERE CLEAN UP, & RHR
86E-02D2.30	INT ATT.
86E-02D2.40	ECC, CHR, ACU, AND RHR SUPPORT SYS.
86E-02D3.20	INTEGRAL ATTACHMENTS, COMPONENT SUPPORTS AND RESTRAINTS(D-C) SYSTEMS IN SUPPORT OF RHR FROM SPENT FUEL STORAGE POOL

100-1-5764  
100-1-5764

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M NUTECH TENNESSEE VALLEY AUTHORITY PRISM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M REFERENCE CLUSTER LISTING *****
M DATA ELEMENT : ITEMNO M PAGE 68 M
M REVISION 0000 M
M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
86E-02F1.10	CLASS 1 PIPING SUPPORTS, CODE CASE N-491 (F-A)
86E-02F1.10A	CLASS 1 PIPING SUPPORT, ONE DIRECTIONAL HANGERS
86E-02F1.10B	CLASS 1 PIPING SUPPORTS, MULTIDIRECITONAL RESTRAINTS
86E-02F1.10C	CLASS 1 PIPING SUPPORTS, SUPPORTS WITH THERMAL MOVEMENT
86E-02F1.20	CLASS 2 PIPING SUPPORTS, CODE CASE N-491 (F-A)
86E-02F1.20A	CLASS 2 PIPING SUPPORTS, ONE DIRECTIONAL HANGERS
86E-02F1.20B	CLASS 2 PIPING SUPPORTS, MULTIDIRECITONAL SUPPORTS
86E-02F1.20C	CLASS 2 PIPING SUPPORTS, SUPPORTS WITH THERMAL MOVEMENT
86E-02F1.30	CLASS 3 PIPING SUPPORTS, CODE CASE N-491 (F-A)
86E-02F1.30A	CLASS 3 PIPING SUPPORTS, ONE DIRECTIONAL HANGERS
86E-02F1.30B	CLASS 3 PIPING SUPPORTS, MULTIDIRECTIONAL SUPPORTS
86E-02F1.30C	CLASS 3 PIPING SUPPORTS, SUPPORTS WITH THERMAL MOVEMENT
86E-02F1.40	SUPPORTS OTHER THAN PIPING, CODE CASE N-491 CL.1,2,3 3HC(F-A)
86E-02F1.40A	SUPPORTS OTHER THAN PIPING, ONE DIRECTIONAL HANGERS
86E-02F1.40B	SUPPORTS OTHER THAN PIPING, MULTIDIRECTIONAL SUPPORTS

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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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M REFERENCE CLUSTER LISTING *****
M DATA ELEMENT : ITEMNO M PAGE 69 M
M REVISION 0000 M
M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
86E-02F1.40C	SUPPORTS OTHER THAN PIPING, SUPPORT WITH THERMAL MOVEMENT

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* NUTECH                                TENNESSEE VALLEY AUTHORITY PRISIM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE *
*                                     REFERENCE CLUSTER LISTING *
*                                     DATA ELEMENT : OPZONE *
*                                     * PAGE 72 *
*                                     * REVISION 0000 *
*                                     * DATE 11/04/94 *
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REFERENCE KEY      DESCRIPTION
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DUMMY             DUMMY RECORD - TO BE CHANGED BY TVA AT A LATER DATE
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OWNER: TENNESSEE VALLEY AUTHORITY      PLANT: BROWNS FERRY NUCLEAR PLANT
        NUCLEAR POWER GROUP           P.O. BOX 2000
        1101 MARKET STREET             DECATUR, ALABAMA 35602
        CHATTANOOGA, TENNESSEE 37402

UNIT: TWO                                CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERICAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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* NUTECH                                TENNESSEE VALLEY AUTHORITY PRISIM *
*                                     BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 *
*                                     ISI DATA BASE *
*                                     REFERENCE CLUSTER LISTING *
*                                     DATA ELEMENT : REQUEST *
*                                     * PAGE 73 *
*                                     * REVISION 0000 *
*                                     * DATE 11/04/94 *
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REFERENCE KEY      DESCRIPTION
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86E-02ISI2-1      NON-REMOVABLE RPV INSULATION LIMITS THE ACCESS TO THE
                   INTEGRAL ATTACHMENT WELD OF THE SUPPORT SKIRT TO THE RPV.
                   2 ACCESS PORTS, 180 DEG. APART PROVIDE ACCESS TO THE O. D.
                   FOR EXAM OF TWO 24" SECTIONS OF THE INTEGRAL ATT. WELD.
                   UT OF THE 4 FT. OF ACCESSIBLE O. D. DURING THE INTERVAL.
                   EXAM OF ONE 24" SECTION TO BE SCHED. IN THE 2ND PERIOD, & THE
                   OTHER 24" SECTION TO BE SCHED. IN THE 3RD PERIOD.
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M NUTECH TENNESSEE VALLEY AUTHORITY PRISM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M REFERENCE CLUSTER LISTING *****
M DATA ELEMENT : SYSTEM M PAGE 74 M
M REVISION 0000 M
M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
ACCWS	AIR CONDITIONING CHILLED WATER SYSTEM - 031
CCWS	REACTOR BUILDING - CLOSED COOLING WATER SYSTEM - 070
CRDDS	CLEAN RADWASTE & DECON DRAINAGE SYSTEM - 077
CRDS	CONTROL ROD DRIVE SYSTEM - 085
CSS	CORE SPRAY SYSTEM - 075
DWS	DEMINERALIZED WATER SYSTEM - 078
EECWS	EMERGENCY EQUIPMENT COOLING WATER SYSTEM - 067
FDRDS	FLOOR & DIRTY RADWASTE DRAINAGE SYSTEM - 077
FPCS	FUEL POOL COOLING SYSTEM - 078
FWS	FEEDWATER SYSTEM - 003
HPCIS	HIGH PRESSURE COOLANT INJECTION SYSTEM - 073
HSS	MAIN STEAM SYSTEM - 001
RCICS	REACTOR CORE ISOLATION COOLING SYSTEM - 071
RCWS	RAW COOLING WATER SYSTEM - 024
RECIR	REACTOR WATER RECIRCULATING SYSTEM - 068

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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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M REFERENCE CLUSTER LISTING *****
M DATA ELEMENT : SYSTEM M PAGE 75 M
M REVISION 0000 M
M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
RHRS	RESIDUAL HEAT REMOVAL SYSTEM - 074
RHRSM	RHR SERVICE WATER SYSTEM - 023
RPV	REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068
RWCUS	REACTOR WATER CLEANUP SYSTEM - 069
SHS	HYPOCHLORITE SYSTEM - 050
SLCS	STANDBY LIQUID CONTROL SYSTEM - 063
SWQS	SAMPLING & WATER QUALITY SYSTEM - 043
TDHP	TURBINE DRAINS & MISCELLANEOUS PIPING - 003

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M NUTECH TENNESSEE VALLEY AUTHORITY PRISIM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M REFERENCE CLUSTER LISTING *****
M DATA ELEMENT : TENRMS M PAGE 76 M
M REVISION 0000 M
M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
EXCLUD	WELDS EXCLUDED DUE TO WALL THICKNESS < 0.375"
EXEMPT	COMPONENTS EXEMPT FROM SEC. XI EXAM REQUIREMENTS
MNCC	CODE CLASS HAS BEEN CHANGED TO NON-NUCLEAR - MNCC
OUTSIDE	COMPONENT IS OUTSIDE BOUNDARY OF SEC. XI
REMOVD	COMPONENT HAS BEEN REMOVED FROM SERVICE
RFR	REQUEST FOR RELIEF, SEE UNIT REF. "REQUEST"

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

UNIT: TWO                                CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISIM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M REFERENCE CLUSTER LISTING *****
M DATA ELEMENT : ZZZZZZZZ M PAGE 77 M
M REVISION 0000 M
M DATE 11/04/94 M
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REFERENCE KEY	DESCRIPTION
ZZZZZZZZZZ	+++ THIS IS THE END OF THE UNIT REFERENCE FILE +++ XXXXXXXX



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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

## UNIT 2/CYCLE 7 ISI REPORT OF CLASS 1 AND CLASS 2 COMPONENTS



ASSEMBLY  
INSTRUCTIONS

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2.

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 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 PRISM  
 \*\*\*\*\*  
 PAGE 1  
 REVISION 0002  
 DATE 01/17/95  
 \*\*\*\*\*  
 SYSTEM : CCWS REACTOR BUILDING - CLOSED COOLING WATER SYSTEM - 070  
 ISOMETRIC NUMBER : ISI-0032-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B464S0121	RIGHGR2	F-A FI.20A	R00000045			VT-3	19940504	PASS	YES			
2-47B464S0228	H SHUB	F-A FI.20C	R00000044			VT-3	19940504	PASS	YES			

\*\*\*\*\*  
 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 PRISM  
 \*\*\*\*\*  
 PAGE 2  
 REVISION 0002  
 DATE 01/17/95  
 \*\*\*\*\*  
 SYSTEM : CCWS REACTOR BUILDING - CLOSED COOLING WATER SYSTEM - 070  
 ISOMETRIC NUMBER : N/A SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-SI-3.3.11	LEAKAGE	C-H C7.10	R00000450			VT-2	19941103	PASS	YES			

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  
 UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 Page 98 of 271

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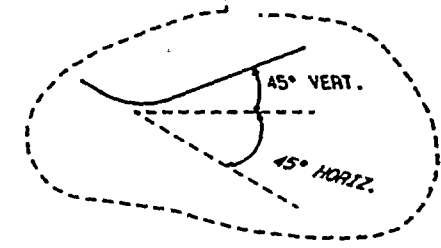
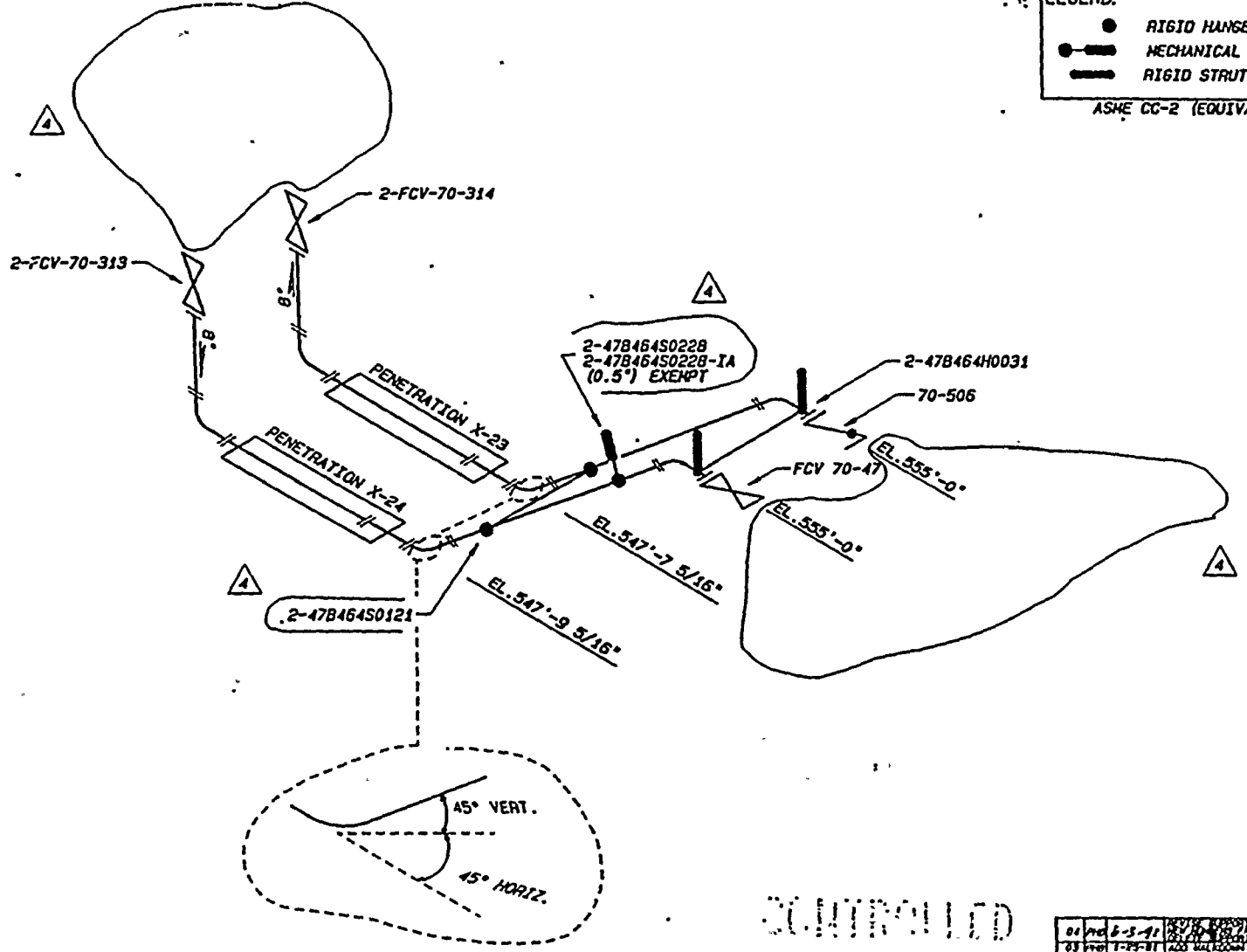
REFERENCE DRAW.

47N2054  
 47N464-H SERIES  
 47N2464-200 THRU 203  
 47B2464-11, 18, 31, 41

LEGEND:

- RIGID HANGER
- MECHANICAL SNUBBER
- RIGID STRUT

ASME CC-2 (EQUIVALENT)



CONTROLLED

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

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

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

01	PHG 6-5-81	REVISE DESIGN APPROVED TO MATCH	JCS	REV	DR
02	PHG 1-25-81	ADD MATERIAL DATA	JJA	DES	R.B.
03	PHG 8-28-80	ADD BOUNDARY VALVES, MODIFY SUPPORTS, REMOVE CADBLOCK, CLARIFY DETAIL.	JJA	EDC	R.B.
04	PHG 12-22-80	REVISIONS REVISED FOR PART 11	JCS	DES	DR
05	PHG 01-01-81	REVISIONS REVISED FOR PART 11	JCS	DES	DR
REVISIONS: THE TITLE IS TO HAVE 100/1000 1 1/2\"/>					
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT #2					
CLOSED COOLING WATER SYSTEM					
SUPPORT LOCATIONS					
DATE	KEY	REVISION	APPROVED	SCALE	FILE
DATE	KEY	REVISION	APPROVED	SCALE	FILE
DATE	KEY	REVISION	APPROVED	SCALE	FILE
DATE	KEY	REVISION	APPROVED	SCALE	FILE



1950

1951

1952

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : CRDS CONTROL ROD DRIVE SYSTEM - 085  
 ISOMETRIC NUMBER : ISI-0040-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
TCRD-2-025T	HEAD -SHELL	C-F-2 C5.51	R00000113	C00000021	BF-75	HT UT-45	19940920	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000112	C00000021	BF-75	UT-45	19940922	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000112	C00000020	BF-75	UT-60	19940922	PASS	YES		GEOMETRIC	NON-RELEVANT

\*\*\*\*\*

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : CRDS CONTROL ROD DRIVE SYSTEM - 085  
 ISOMETRIC NUMBER : ISI-0040-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION	
RCRD-2-A04	PIPE -TEE	C-F-2 C5.51	R00000090	C00000017	BF-34	HT UT-45	19940914	PASS	YES				
			R00000095	C00000017	BF-34	UT-45	19940919	PASS	YES				
RCRD-2-A06	TEE -PIPE	C-F-2 C5.51	R00000091	C00000017	BF-34	HT UT-45	19940914	PASS	YES				
			R00000096	C00000017	BF-34	UT-45	19940919	PASS	YES				
RCRD-2-A07	PIPE -TEE	C-F-2 C5.51	R00000089			HT	19940914	ENGR	YES		SURF, LINEAR	EVALUATED OK	
			R00000089			UT-CRP	19940915	PASS	YES		LINEAR	EVALUATED,OK	
			R00000097	C00000018	BF-34	UT-45	19940915	PASS	YES				
			R00000089			UT-45	19940915	PASS	YES			LINEAR	EVALUATED,OK
RCRD-2-A08	ELBOW -PIPE	C-F-2 C5.51	R00000092	C00000017	BF-34	HT UT-45	19940914	PASS	YES				
			R00000098	C00000017	BF-34	UT-45	19940919	PASS	YES				
RCRD-2-B04	PIPE -TEE	C-F-2 C5.51	R00000093	C00000019	BF-34	HT UT-45	19940914	PASS	YES				

\*\*\*\*\*

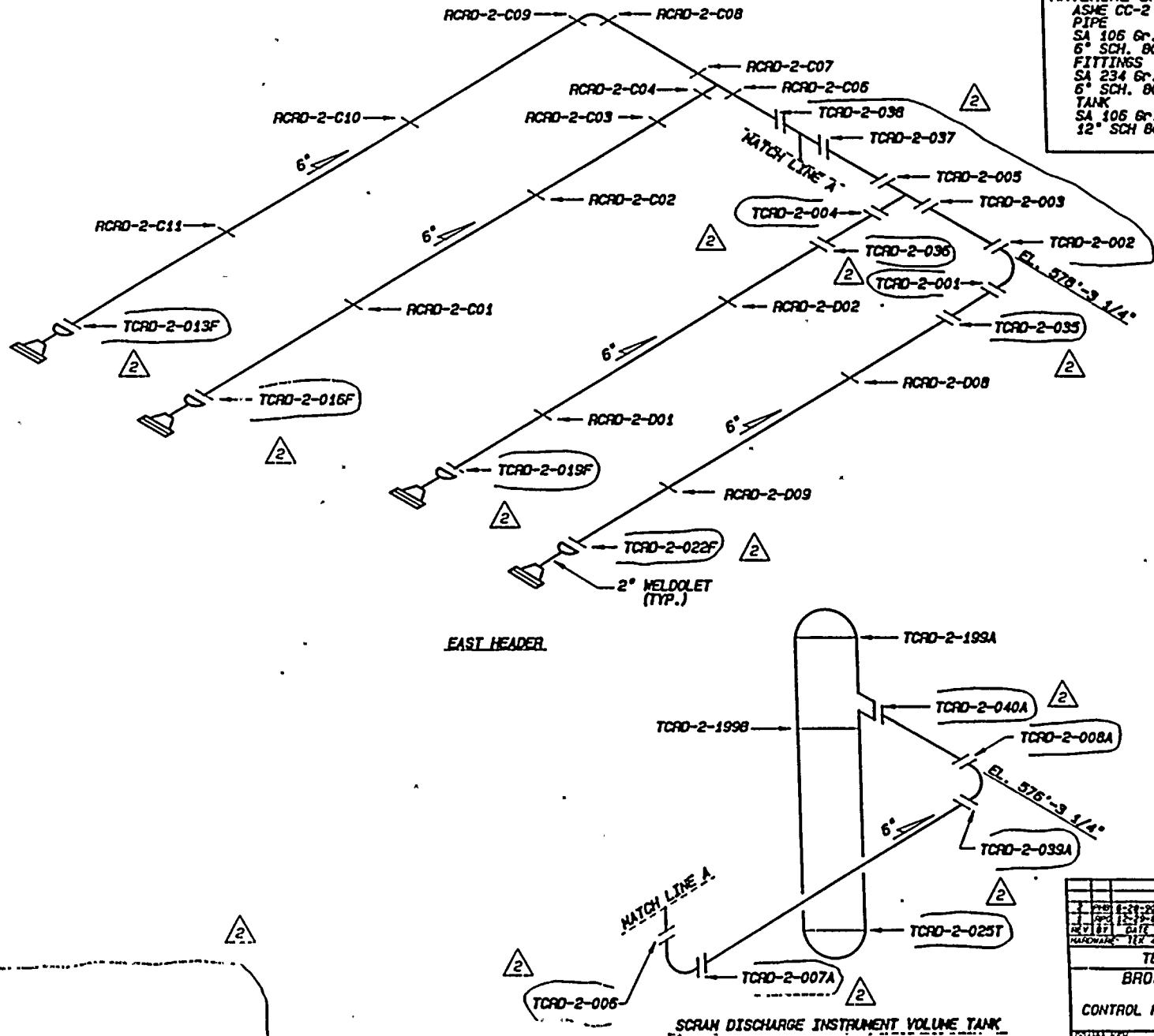
OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402  
 PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2000  
 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

10-10-68

10100 \*

REFERENCE DRAWING  
 47N2468 SERIES  
 ISI-0041-C (SH. 1) SCHEMATIC MAP  
 MATERIAL SPECIFICATIONS  
 ASME CC-2 (EQUIVALENT)  
 PIPE  
 SA 106 Gr. B  
 6" SCH. 80 0.432" NOM WALL THK  
 FITTINGS  
 SA 234 Gr. WPB  
 6" SCH. 80  
 TANK  
 SA 106 Gr. B or SA 333 Gr. B  
 12" SCH 80 0.688" NOM WALL THK



DATE	BY	DESCRIPTION	REVISION
12-28-73	EDC	ADD TCRD-2 TO WELD LOCATIONS	1
12-28-73	EDC	ADD TCRD-2 TO WELD LOCATIONS	2
12-28-73	EDC	ADD TCRD-2 TO WELD LOCATIONS	3
12-28-73	EDC	ADD TCRD-2 TO WELD LOCATIONS	4
12-28-73	EDC	ADD TCRD-2 TO WELD LOCATIONS	5

TENNESSEE VALLEY AUTHORITY  
 BRONNS FERRY NUCLEAR PLANT  
 UNIT #2  
 CONTROL ROD DRIVE SCRAM DISCHARGE SYSTEM  
 WELD LOCATIONS

DATE	BY	DATE	BY
12-28-73	EDC	12-28-73	EDC
12-28-73	EDC	12-28-73	EDC
12-28-73	EDC	12-28-73	EDC

Page 101 of 271

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

PLANT: BRONNS FERRY NUCLEAR PLANT  
 P.O. BOX 5000  
 DECATUR, ALABAMA 35602

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

00101



1910

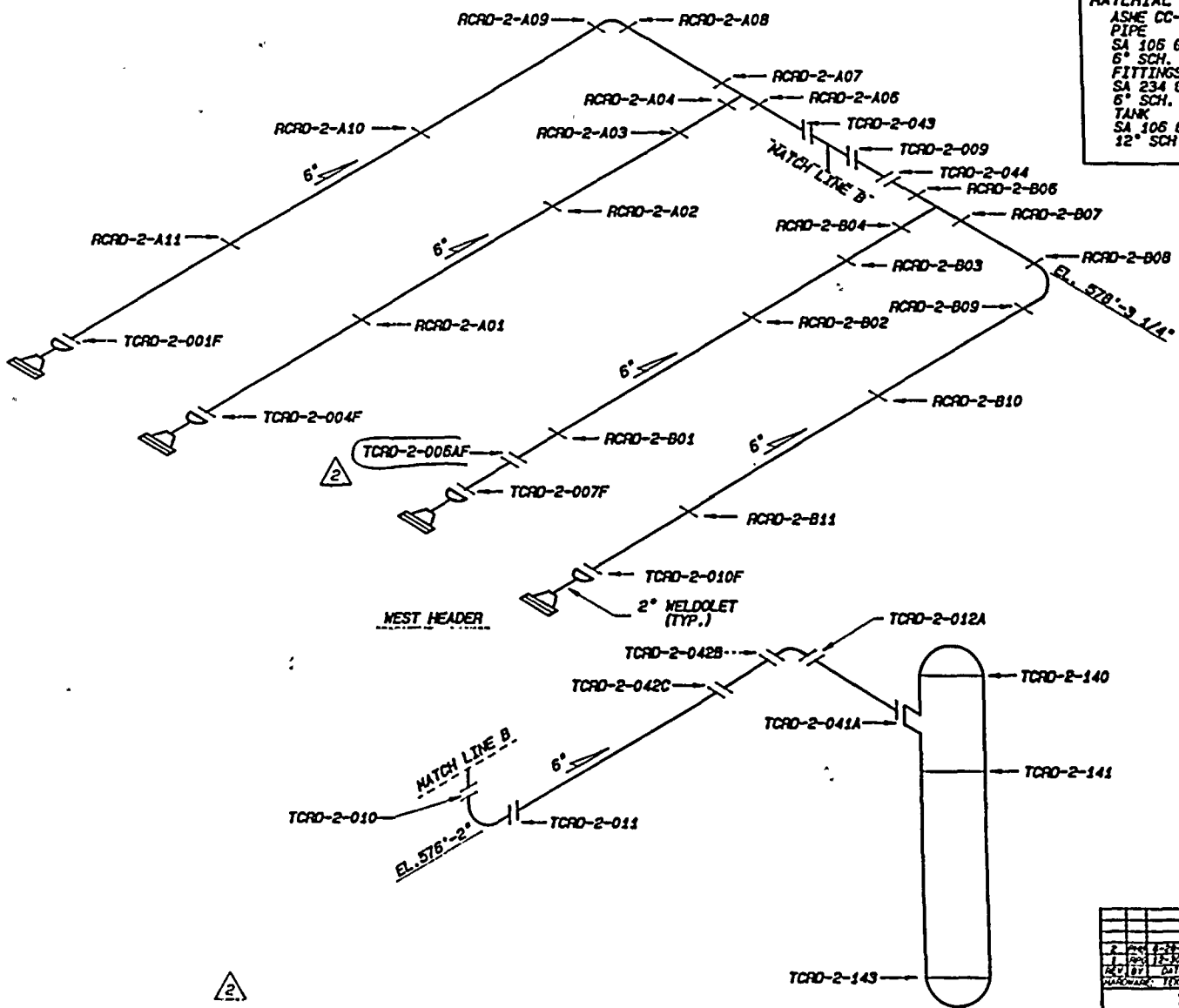
1910

REFERENCE DRAWINGS  
 47N2468 SER ES  
 ISI-0041-C (SH. 2) SUPPORT MAP

MATERIAL SPECIFICATIONS  
 ASME CC-2 (EQUIVALENT)  
 PIPE  
 SA 106 Gr. B  
 6" SCH. 80 0.432" NOM WALL THK

FITTINGS  
 SA 234 Gr. WPB  
 6" SCH. 80

TANK  
 SA 106 Gr. B or SA 333 Gr. 6  
 12" SCH 80 0.688" NOM WALL THK



DATE	BY	DESCRIPTION	SCALE	NO.
12-10-70	...	...	...	...
12-10-70	...	...	...	...
12-10-70	...	...	...	...

APPROVED: [Signature]

TENNESSEE VALLEY AUTHORITY  
 BROWN'S FERRY NUCLEAR PLANT  
 UNIT #2  
 CONTROL ROD DRIVE SCRAM DISCHARGE SYSTEM  
 WELD LOCATIONS

DATE	BY	DESCRIPTION	SCALE	NO.
12-10-70	...	...	...	...
12-10-70	...	...	...	...
12-10-70	...	...	...	...

Page 102 of 271

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

PLANT: BROWN'S FERRY NUCLEAR PLANT  
 P.O. BOX 7009  
 DECATUR, ALABAMA 35602

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

00102

1950

Page 10

1950



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 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 PRISM  
 \*\*\*\*\*  
 \* PAGE 5 \*  
 \* REVISION 0002 \*  
 \* DATE 01/17/95 \*  
 \*\*\*\*\*  
 SYSTEM : CRDS CONTROL ROD DRIVE SYSTEM - 085  
 ISOMETRIC NUMBER : ISI-0041-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B468S0006	RIGHCR4	F-A Fl.20B	R00000100			VT-3	19940922	PASS	YES		
2-47B468S0007	RIGHCR2	F-A Fl.20B	R00000101			VT-3	19940922	PASS	YES		
2-47B468S0012	RIG HGR -R STRUT	F-A Fl.20A	R00000102			VT-3	19940921	PASS	YES		
2-47B468S0040	RIG HGR	F-A Fl.20A	R00000106			VT-3	19940921	PASS	YES		

\*\*\*\*\*  
 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 PRISM  
 \*\*\*\*\*  
 \* PAGE 6 \*  
 \* REVISION 0002 \*  
 \* DATE 01/17/95 \*  
 \*\*\*\*\*  
 SYSTEM : CRDS CONTROL ROD DRIVE SYSTEM - 085  
 ISOMETRIC NUMBER : ISI-0041-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B468S0016	VES SUP	F-A Fl.40B	R00000103			VT-3	19940921	PASS	YES		
2-47B468S0017	VES SUP	F-A Fl.40B	R00000104			VT-3	19940921	PASS	YES		
2-47B468S0018	VES SUP	F-A Fl.40B	R00000105			VT-3	19940921	PASS	YES		

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  
 UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

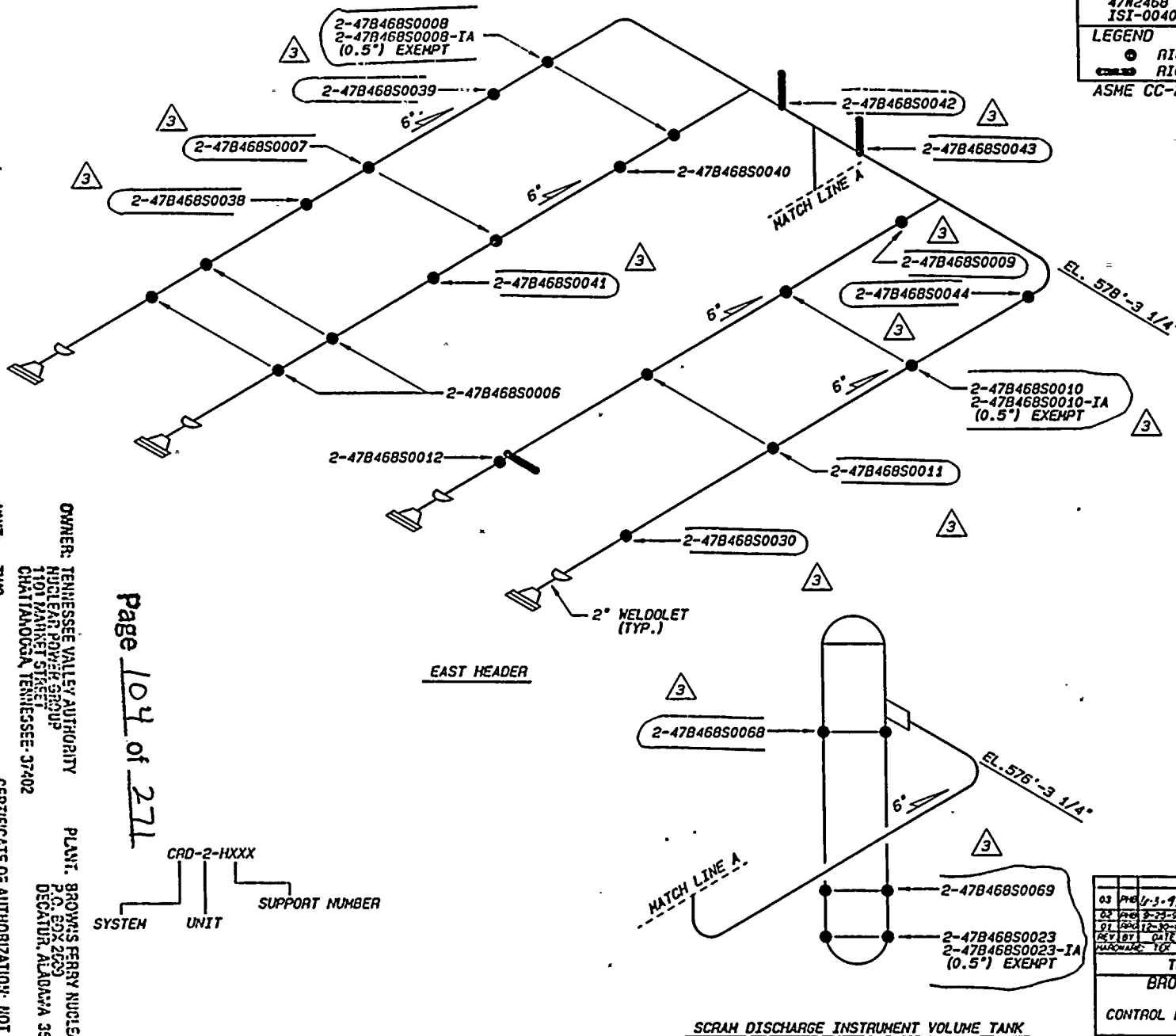
10 10 10

10 10 10

10 10 10

REFERENCE DR.  
 47N468-205  
 47N468-206  
 47N2468 SERIES  
 ISI-0040-C (SH. 1) WELD MAP

LEGEND  
 ● RIGID HANGER  
 ○ RIGID STRUT  
 ASME CC-2 (EQUIVALENT)



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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2603  
 OSCAR, ALABAMA 35602

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

NATIONAL BOARD OF TITANIC FOR UNIT - NOT REQUIRED

Page 104 of 271

CRD-2-HXXX  
 SUPPORT NUMBER

SYSTEM UNIT

03	PHB	4-5-92	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING	AG	12/11
02	PHB	3-23-90	REVISE SUPPORTS	AG	12/11
01	PHB	12-30-88	REVISED FOR DAVIS	AG	12/11
REV BY	DATE	DESCRIPTION	CHK'D BY	APP'D BY	
HARDWARE: TOR 4129 SOFTWARE: TERNICAD 1.8 FLOOR: BF-5					
TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT UNIT #2 CONTROL ROD DRIVE SCRAM DISCHARGE SYSTEM SUPPORT LOCATIONS					
CHANGE DATE	REV	SUBMITTED DATE	APPROVED DATE	SCALE	HTS
DESIGN DATE	JUL		GLB	SHEET 01 OF 02 SHEETS	REV
				QUANTITY NO.	
				ISI-0041-C	103

60104



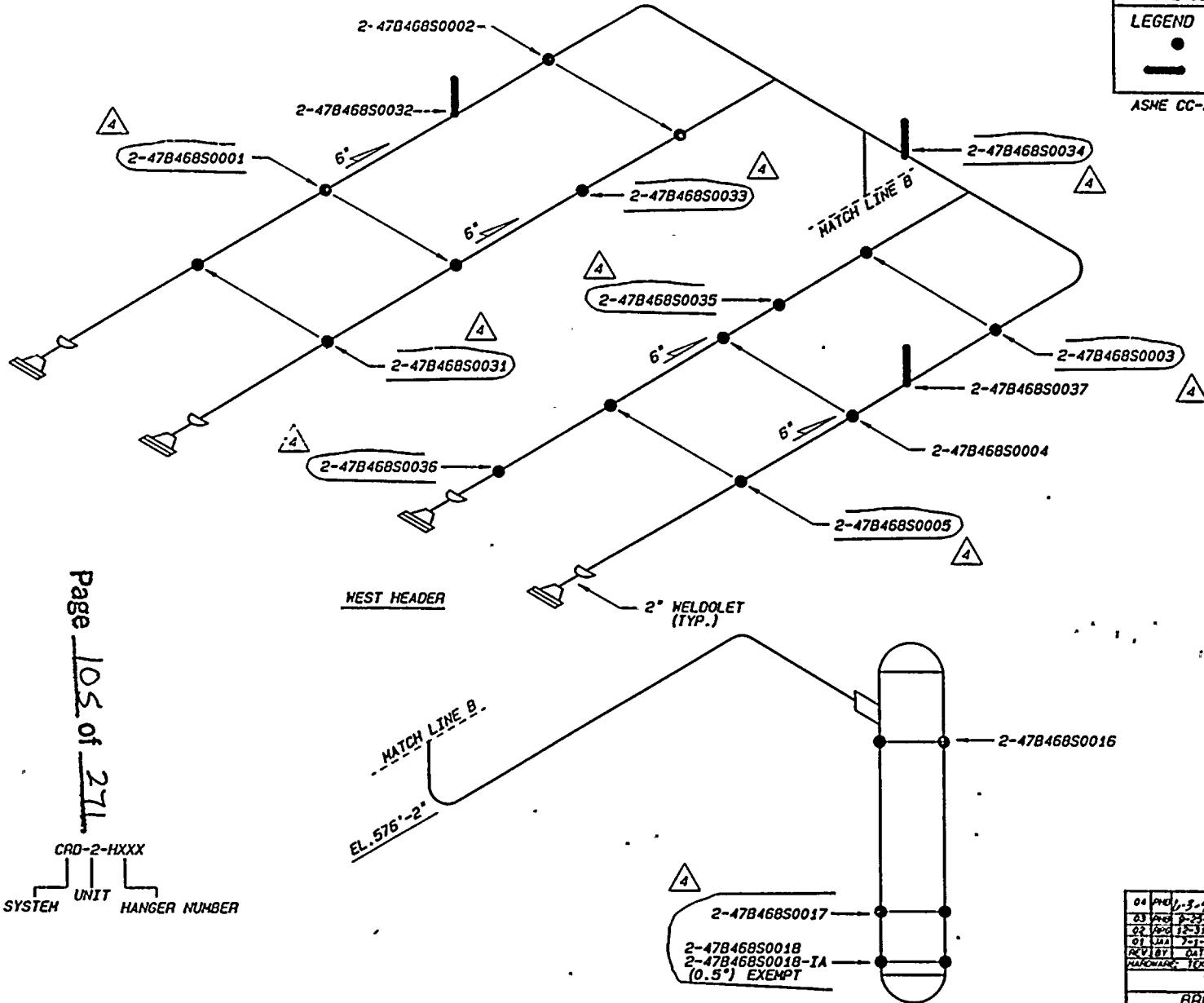
REFERENCE DRAWING

47H468-203  
47H468-206  
47H2468 SERIES

LEGEND

- RIGID HANGER
- RIGID STRUT

ASME CC-2 (EQUIVALENT)



Page 105 of 271

CRD-2-HXXX  
UNIT  
SYSTEM HANGER NUMBER

OWNER: TENNESSEE VALLEY AUTHORITY  
NUCLEAR POWER GROUP  
1191 MARKET STREET  
CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT  
P.O. BOX 2600  
DECATUR, ALABAMA 35802

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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

04	REV 1-3-92	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING	AGB	10/11/92
03	REV 8-23-90	REVISE SUPPORTS	AGB	10/11/92
02	REV 12-31-86	REVISED FOR PARTS IN	AGB	10/11/92
01	REV 7-17-88	DELETE NUMBER NO. H-234	AGB	10/11/92
REV 1/11	DATE	DESCRIPTION	BY	DATE
HARDWARE: TEX 4128		SOFTWARE: TECHCAD 1.8	FLOW: 87-8	
TENNESSEE VALLEY AUTHORITY				
BROWNS FERRY NUCLEAR PLANT				
UNIT #2				
CONTROL ROD DRIVE SCRAM DISCHARGE SYSTEM				
SUPPORT LOCATIONS				
DRAWN	REV	SUBMITTED	APPROVED	SCALE: NTS
DATE: 9-1-82		DATE:	DATE:	SHEET 02 OF 02 SHEET(S)
CHECKED: JJA	EDC	GLB	DRAWING NO.	REV
DATE:			ISI-0041-C	04

SCRAM DISCHARGE INSTRUMENT VOLUME TANK

1954

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : CSS CORE SPRAY SYSTEM - 075  
 ISOHERTRIC NUMBER : ISI-0105-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
CS-2-H-21	RIG HGR	F-A F1.20A	R00000048			VT-3	19940512	PASS	YES		
CS-2-H-25	VSPRING	F-A F1.20C	R00000088			VT-3	19940714	PASS	YES		
CS-2-H-27-IA	IWA	C-C CS.20	R00000050			HT	19940516	PASS	YES		
CS-2-H-28-IA	IWA	C-C CS.20	R00000052			HT	19940516	PASS	YES		
CS-2-H-31-IA	IWA	C-C CS.20	R00000051			HT	19940516	PASS	YES		
CS-2-PS-01	PHP SUP	F-A F1.40B	R00000049			VT-3	19940512	PASS	YES		

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : CSS CORE SPRAY SYSTEM - 075  
 ISOHERTRIC NUMBER : ISI-0105-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
CS-2-H-01	RIG HGR	F-A F1.20A	R00000053			VT-3	19940517	PASS	YES		
CS-2-H-02	HVSPG 2	F-A F1.20C	R00000082			VT-3	19940615	ENGR	YES	FREED OF HOT ANAL OK ACCP	
CS-2-H-07	HVSPG 2	F-A F1.20C	R00000076			VT-3	19940609	PASS	YES		
CS-2-H-07-IA	IWA	C-C CS.20	R00000056			HT	19940519	PASS	YES		
CS-2-H-08-IA	IWA	C-C CS.20	R00000055			HT	19940519	PASS	YES		
CS-2-H-11-IA	IWA	C-C CS.20	R00000057			HT	19940519	PASS	YES		
CS-48N1025-2-B	ANCHOR2	F-A F1.20B	R00000086			VT-3	19940712	PASS	YES		

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2030  
 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00106

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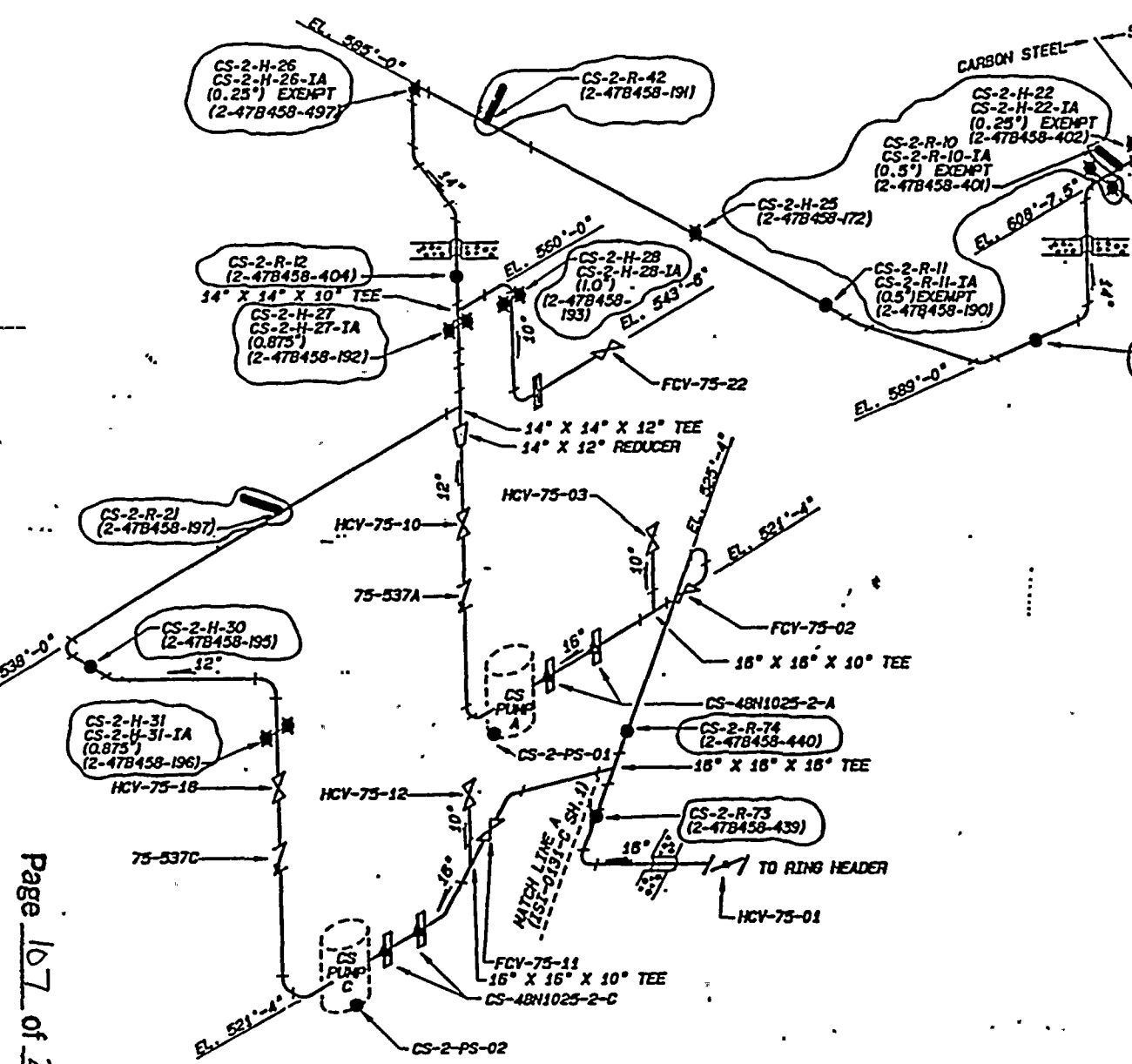


1950

1951



REFERENCE DRAWINGS  
 47N458 SERIES  
 47N458-H SERIES  
 ISI-0103-C (SH. 1) WELD MAP

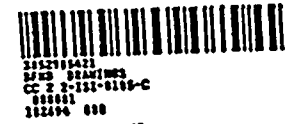


LEGEND:  
 ● RIGID SUPPORT  
 \* VARIABLE SUPPORT  
 — RIGID STRUT  
 ▲ ANCHOR  
 ○ MECHANICAL SMURBER

CALCULATION BRANCH/PROJECT IDENTIFIERS  
 CD-02073-881234  
 CD-02073-883012

ASME CC-2 (EQUIVALENT)

NOTE:  
 1. DRAWING NUMBERS SHOWN IN ( ) WITH CORRESPONDING SUPPORT I.D. DRAWING MAY ALSO HAVE MULTIPLE SHEETS.



CCO/ISS	10-21-81	ISSO JK	IN/A	ISSA	ISSC	ISSD	ISSE	ISSF	ISSG	ISSH	ISSI	ISSJ	ISSK	ISSL	ISSM	ISSN	ISSO	ISSP	ISSQ	ISSR	ISSS	ISST	ISSU	ISSV	ISSW	ISSX	ISSY	ISSZ
ISSUED TO CREATE CCD, SUPERSEDES ISI-0103-C-1 R001																												
REVISED SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM																												
ENGINEERING, ADDED CONTINUATION DRAWINGS, NOTE 1, AND																												
REFERENCE CALCULATIONS (ISSF REVISION)																												
TENNESSEE VALLEY AUTHORITY																												
BROWNS FERRY NUCLEAR PLANT																												
UNIT 2																												
CORE SPRAY SYSTEM																												
SUPPORT LOCATIONS																												
DATE	REV	DESCRIPTION	ISSUED	ISS BY																								
02/16/81	1	ISSUED	02/16/81	GLB																								
DATE	REV	DESCRIPTION	ISSUED	ISS BY																								
02/16/81	1	ISSUED	02/16/81	GLB																								

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2090  
 DECATUR, ALABAMA 35602

UNIT: TWO

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED



1950

1950

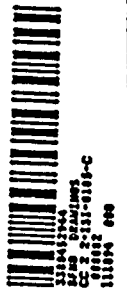
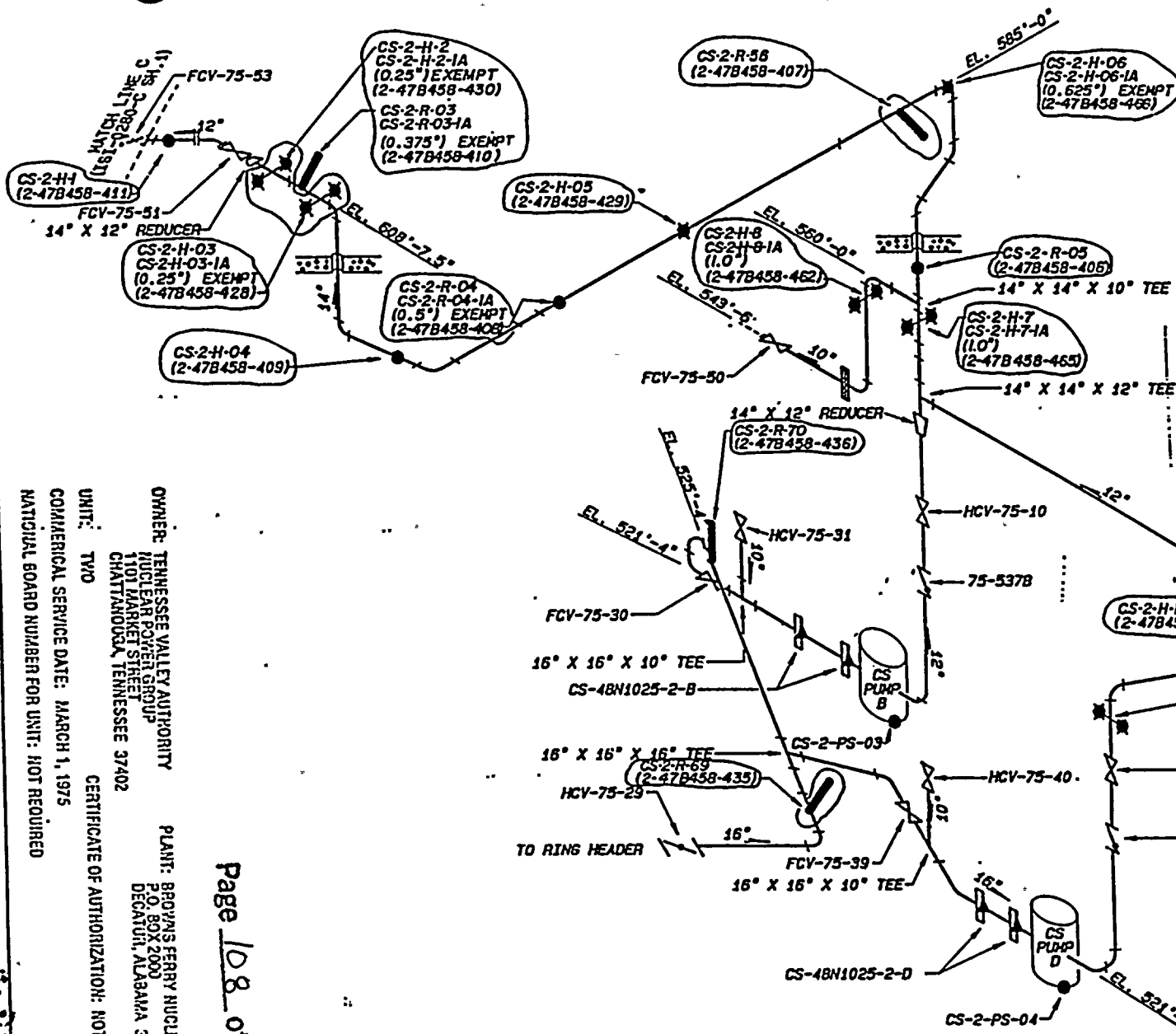
1950

REFERENCE DRAWINGS:  
 47N458 SERIES  
 47M458-H SERIES  
 ISI-0103-C (SH. 2) WELD MAP

LEGEND:  
 ● RIGID HANGER  
 ■ VARIABLE SUPPORT  
 — RIGID STRUT  
 ▲ ANCHOR  
 ○ MECHANICAL SNUBBER

CALCULATION BRANCH/PROJECT IDENTIFIER:  
 CD-Q2075-895121  
 CD-Q2073-883012  
 ASME CC-2 (EQUIVALENT)

NOTE:  
 FOR NOTES SEE SHEET I.



CONTROLLED

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

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

Page 108 of 271

CCD/ISI	11-10-01	NEW	JR	N/A	1/1	1/1	1/1	1/1	1/1	1/1	1/1
ISSUED TO CREATE CCD. SUPERSEDES A/O ISI-0103-C-2 R6; REVISED SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING. ADDED CONTRIBUTION DRAWINGS, NOTE AND REFERENCE CALCULATIONS, (SEE REVISION)											
TENNESSEE VALLEY AUTHORITY											
BROWNS FERRY NUCLEAR PLANT											
UNIT 2											
CORE SPRAY SYSTEM											
SUPPORT LOCATIONS											
DATE	REV	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE
02-11-75	1	GLB	02-11-75	1	GLB	02-11-75	1	GLB	02-11-75	1	GLB
DRAWING NO.										REV	
2-ISI-0103-C										000	
CCD											



1000

1000

\*\*\*\*\*  
 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 PRISIH  
 \*\*\*\*\*  
 PAGE 9  
 REVISION 0002  
 DATE 01/17/95  
 \*\*\*\*\*  
 SYSTEM : CSS CORE SPRAY SYSTEM - 075  
 ISOMETRIC NUMBER : ISI-0271-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DCS-2-05	PIPE -VALVE	B-J B9.11	R00000325			PT	19941013	FAIL	YES		SURF, LINEAR	IND. RHVD.
			R00000273	C00000177	BF-79	UT-45	19941015	PASS	YES		SURF, LINEAR	IND. RHVD.
			R00000273	C00000178	BF-79	UT-60L	19941015	PASS	YES		SURF, LINEAR	IND. RHVD.
DCS-2-14	PIPE -VALVE	B-J B9.11	R00000295			PT	19941015	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000272	C00000177	BF-79	UT-45	19941015	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000272	C00000179	BF-79	UT-45L	19941015	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000272	C00000178	BF-79	UT-60L	19941015	PASS	YES		GEOMETRIC	NON-RELEVANT

\*\*\*\*\*  
 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 PRISIH  
 \*\*\*\*\*  
 PAGE 10  
 REVISION 0002  
 DATE 01/17/95  
 \*\*\*\*\*  
 SYSTEM : CSS CORE SPRAY SYSTEM - 075  
 ISOMETRIC NUMBER : ISI-0280-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B458S0004	H SNUB	F-A Fl.10C	R00000200			VT-3	19941012	PASS	YES			
2-47B458S0007	H SNUB	F-A Fl.10C	R00000211			VT-3	19941012	PASS	YES			
2-47B458S0010	VSPRING	F-A Fl.10C	R00000212			VT-3	19941012	PASS	YES			

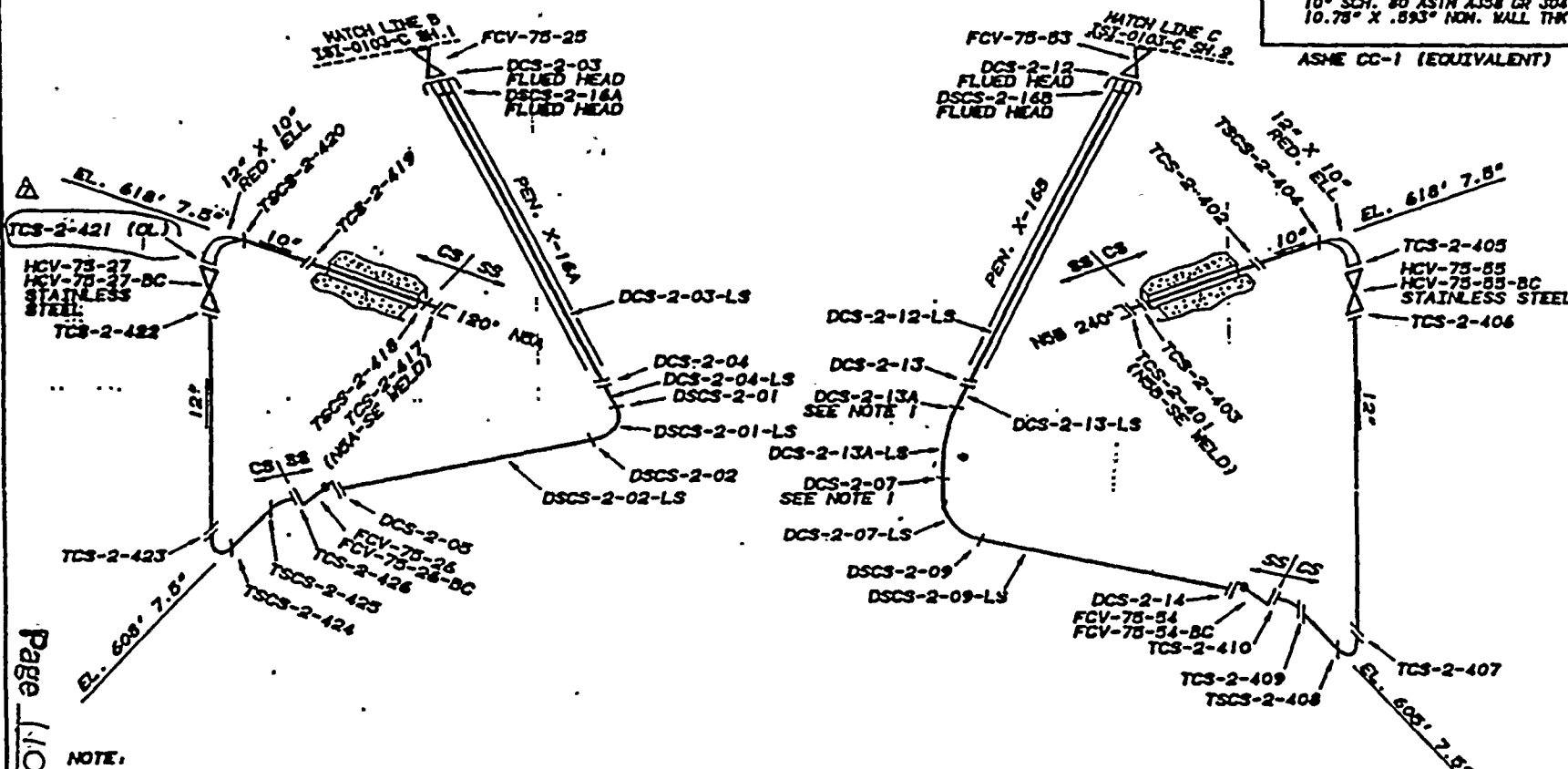
OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402  
 PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2000  
 DECATUR, ALABAMA 35602  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 00109

REFERENCE DRAWINGS  
 DRAVO E-2458-IC-34  
 DRAVO E-2458-IC-35  
 NOTE: THIS DRAWING SUPERSEDES CHM-2071-C  
 ALL SHEETS

MATERIAL SPECIFICATIONS

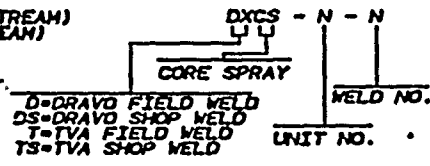
12" SCH. 80 SA 333 GR 6 CS  
 12.75" X .687" NOM. WALL THK.  
 12" SCH. 80 ASTM A338 GR 304 SS  
 12.75" X .687" NOM. WALL THK.  
 10" SCH. 80 SA 333 GR 6 CS  
 10.75" X .593" NOM. WALL THK.  
 10" SCH. 80 ASTM A338 GR 304 SS  
 10.75" X .593" NOM. WALL THK.

ASME CC-1 (EQUIVALENT)



- NOTE:
1. WELDS DCS-2-07 AND DCS-2-13A ARE DRAVO SHOP WELDS.
  2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:

(BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)



7	REV	ADD (CL) TO TCS-2-421 FOR TCS-2-419	11/11/73
6	REV	DELETE LONG SEAM TCS-2-418	9/11/73
5	REV	ADD (CL) TO TCS-2-418 FOR TCS-2-417	9-11-73
4	REV	ADD LONG SEAM IDENTIFIER NOTE	9-29-71
3	REV	ADD LONG SEAM IDENTIFIER NOTE	3-12-70
2	REV	ADD LONG SEAM IDENTIFIER NOTE	3-12-70
1	REV	ADD LONG SEAM IDENTIFIER NOTE	3-12-70

63	REV	ADD (CL) TO TCS-2-409 FOR TCS-2-408	1-2-73
62	REV	ADD (CL) TO TCS-2-409 FOR TCS-2-408	1-2-73
61	REV	ADD LONG SEAM WELD TCS-2-409-LS, CORRECT MATERIAL SPEC	12-19-66
60	REV	ADD LONG SEAM WELD TCS-2-409-LS, CORRECT MATERIAL SPEC	12-19-66
59	REV	ADD LONG SEAM WELD TCS-2-409-LS, CORRECT MATERIAL SPEC	12-19-66
58	REV	ADD LONG SEAM WELD TCS-2-409-LS, CORRECT MATERIAL SPEC	12-19-66
57	REV	ADD LONG SEAM WELD TCS-2-409-LS, CORRECT MATERIAL SPEC	12-19-66
TENNESSEE VALLEY AUTHORITY			
BROWNS FERRY NUCLEAR PLANT			
UNIT 2			
CORE SPRAY SYSTEM			
WELD LOCATIONS			
DRAWN: PWB	DATE: 9-17-69	SCALE: 1/8" = 1'-0"	REV
CHECKED: JEC	APPROVED:	SHEET 01 OF 01	REV
SUBMITTED: EDC	APPROVED: ELS	ISI-0271-C07	

Page 110 of 271 : 00110

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



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

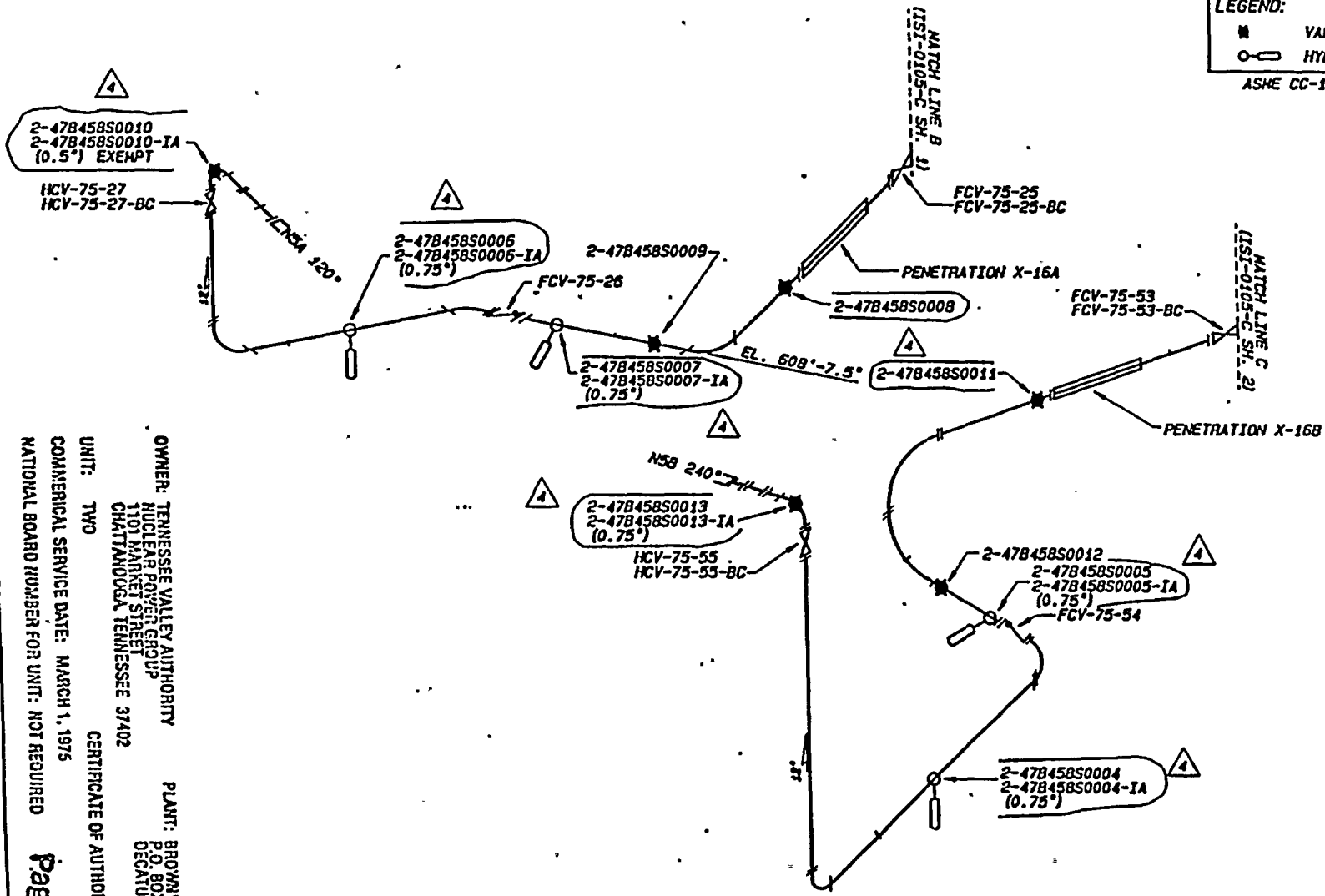
UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

1954

1954

REFERENCE DRAWINGS:  
 47N458-1RB  
 ISI-0271-C (SH. 1) WELD MAP  
 NOTE: THIS DRAWING SUPERCEDES CHN-2089-C  
 ALL SHEETS.

LEGEND:  
 VARIABLE SUPPORT  
 HYDRAULIC STRUT  
 ASME CC-1 (EQUIVALENT)



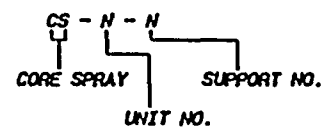
OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 110 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402

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

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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

CONTROLLED



04	REV	6-1-76	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING	NS	1	1
03	REV	4-18-75	REVISE SUPPORT NO. BEHIND GROUND	NS	1	1
02	REV	1-11-75	ADD NEW SUPPORT T.O.	NS	1	1
01	REV	1-11-75	ADD MATCH LINES B & C	NS	1	1
REV	BY	DATE	DESCRIPTION	CHK	DATE	BY
TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT UNIT 2 CORE SPRAY SYSTEM SUPPORT LOCATIONS						
DRWING	REV	DATE	DESCRIPTION	SCALE	BY	CHK
001	1	2-25-77	EDC	1:1	J. B. KELLY	
002	2	3-24-77	GLB	1:1	J. B. KELLY	
003	3	3-24-77	GLB	1:1	J. B. KELLY	

00111





1000

1000

1000

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*****
* NUTECH                                TENNESSEE VALLEY AUTHORITY                PRISIH
*                                       BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
*                                       ISI DATA BASE
*                                       POST OUTAGE EXAMINATION RESULTS REPORT
*                                       EXAM REQUIREMENT : 86E-02 CYCLE : 07
*                                       INTERVAL : 02 PERIOD : 1
*                                       *****
*                                       SYSTEM : DHS DEHINERALLIZED WATER SYSTEM - 078
*                                       ISOMETRIC NUMBER : N/A SHEET : 01
*                                       *****

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-SI-3.3.05	LEAKAGE	C-II C7.10	R00000153			VT-2	19941005	PASS	YES		

```

*****
* NUTECH                                TENNESSEE VALLEY AUTHORITY                PRISIH
*                                       BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
*                                       ISI DATA BASE
*                                       POST OUTAGE EXAMINATION RESULTS REPORT
*                                       EXAM REQUIREMENT : 86E-02 CYCLE : 07
*                                       INTERVAL : 02 PERIOD : 1
*                                       *****
*                                       SYSTEM : EECWS EMERGENCY EQUIPMENT COOLING WATER SYSTEM - 067
*                                       ISOMETRIC NUMBER : ISI-0368-C SHEET : 01
*                                       *****

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
RHRSH-STR-0-A1	RIG HGR	F-A F1.40B	R00000034			VT-3	19940426	PASS	YES		
0-37B205S0056-1A	IWA	D-B D2.20	R00000032			VT-3	19940425	PASS	YES		

Page 112 of 271

OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37403

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 7030  
 DECATUR, ALABAMA 36602

UNIT: TWO CERTIFICATE OF AUTHORIZATION. NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00112



1954

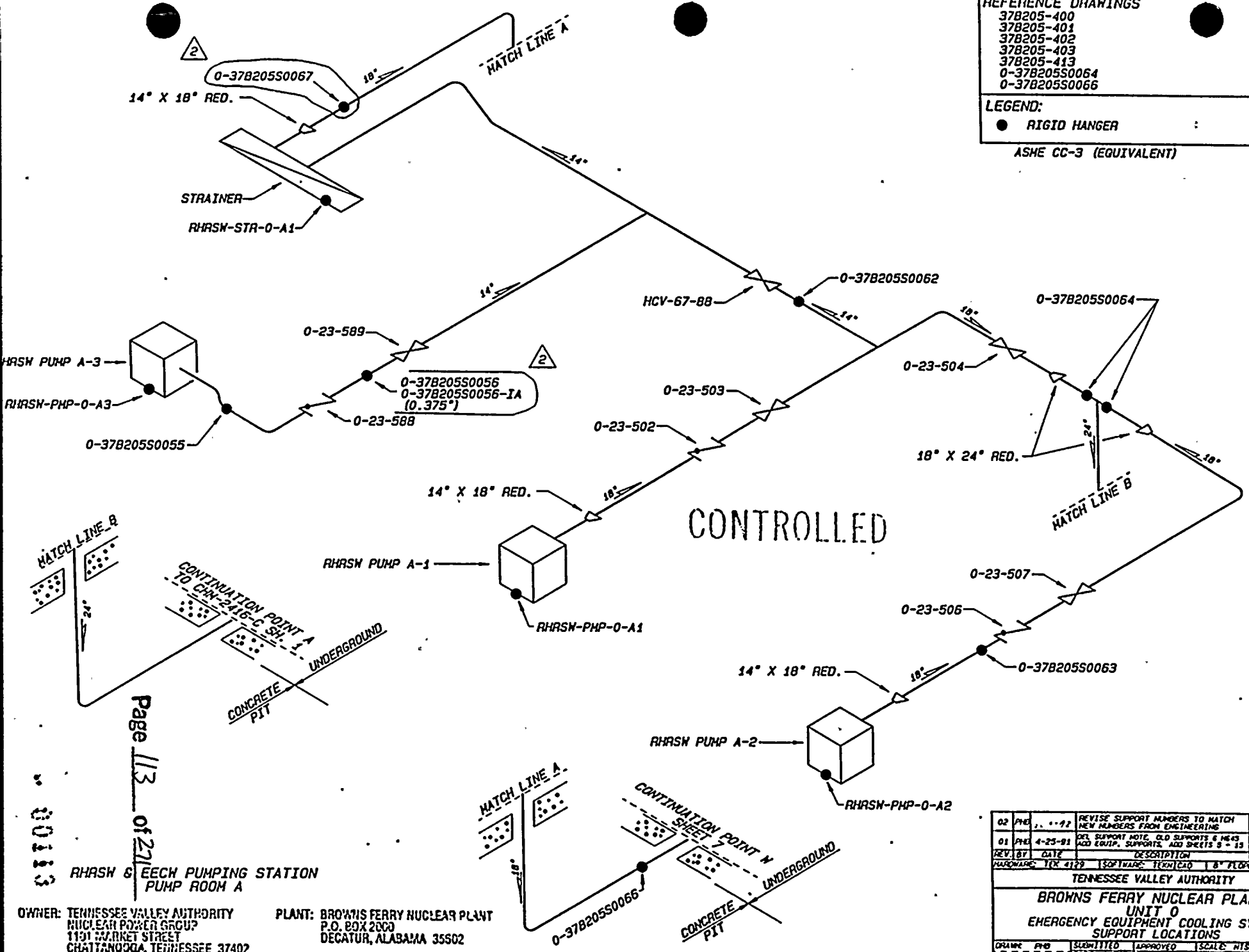
1954

REFERENCE DRAWINGS

- 37B205-400
- 37B205-401
- 37B205-402
- 37B205-403
- 37B205-413
- 0-37B205S0064
- 0-37B205S0066

LEGEND:

- RIGID HANGER
- ASHE CC-3 (EQUIVALENT)



CONTROLLED

Page 113 of 271  
 00113

RHRSH & EECR PUMPING STATION  
PUMP ROOM A

OWNER: TENNESSEE VALLEY AUTHORITY  
NUCLEAR POWER GROUP  
1151 MARKET STREET  
CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT  
P.O. BOX 2000  
DECATUR, ALABAMA 35502

UNIT: TWO      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT PROVIDED

REV. NO.	DATE	DESCRIPTION	BY	CHK'D	APP'D
02	1-11-82	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING	PRO	LES	WJ
01	4-25-81	DEL SUPPORT NOTE, OLD SUPPORTS 6 MEAS ADD EQUIP. SUPPORTS, ADD SHEETS 8 - 13	JMA	LES	GLB
REV. BY	DATE	DESCRIPTION	BY	CHK'D	APP'D
AWORWAVE	10X 4129	(SOFTWARE: TRENTELO 8" FLOWP. 8F-21)			

TENNESSEE VALLEY AUTHORITY

**BROWNS FERRY NUCLEAR PLANT**  
UNIT 0  
EMERGENCY EQUIPMENT COOLING SYSTEM  
SUPPORT LOCATIONS

DRAWN	REV	SUBMITTED	APPROVED	SCALE	W/S
DATE 1-21-82	DATE 4-17-80	DATE 4-17-80		SCALE: NIS	
DATE 4-25-81	DATE 4-25-81	DATE 4-25-81		SHEET 1 OF 13 SHEETS	
DATE 4-25-81	DATE 4-25-81	DATE 4-25-81		DRAWING NO.	
	EDC	GLB		151-0368-C	02



1. The first part of the document

is a list of names and addresses

..

.. 1. 2. 3. 4. 5. ..

\*\*\*\*\*  
 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 PRISM  
 \*\*\*\*\*  
 \* PAGE 13  
 \* REVISION 0002  
 \* DATE 01/17/95  
 \*\*\*\*\*  
 SYSTEM : EECWS EMERGENCY EQUIPMENT COOLING WATER SYSTEM - 067  
 ISOMETRIC NUMBER : ISI-0368-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT REQST.	RELIEF	INDICATION TYPE	INDICATION RESOLUTION
RHRSH-PMP-0-B1	PMP SUP	F-A F1.40B	R00000019			VT-3	19940412	PASS	YES			
0-37B205S0009-IA	IWA	D-B D2.20	R00000037			VT-3	19940427	PASS	YES			

\*\*\*\*\*  
 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 PRISM  
 \*\*\*\*\*  
 \* PAGE 14  
 \* REVISION 0002  
 \* DATE 01/17/95  
 \*\*\*\*\*  
 SYSTEM : EECWS EMERGENCY EQUIPMENT COOLING WATER SYSTEM - 067  
 ISOMETRIC NUMBER : ISI-0368-C SHEET : 04  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT REQST.	RELIEF	INDICATION TYPE	INDICATION RESOLUTION
0-37B205S0025-IA	IWA	D-B D2.20	R00000040			VT-3	19940427	PASS	YES			
0-37B205S0026-IA	IWA	D-B D2.20	R00000041			VT-3	19940427	PASS	YES			

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  
 UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 00114



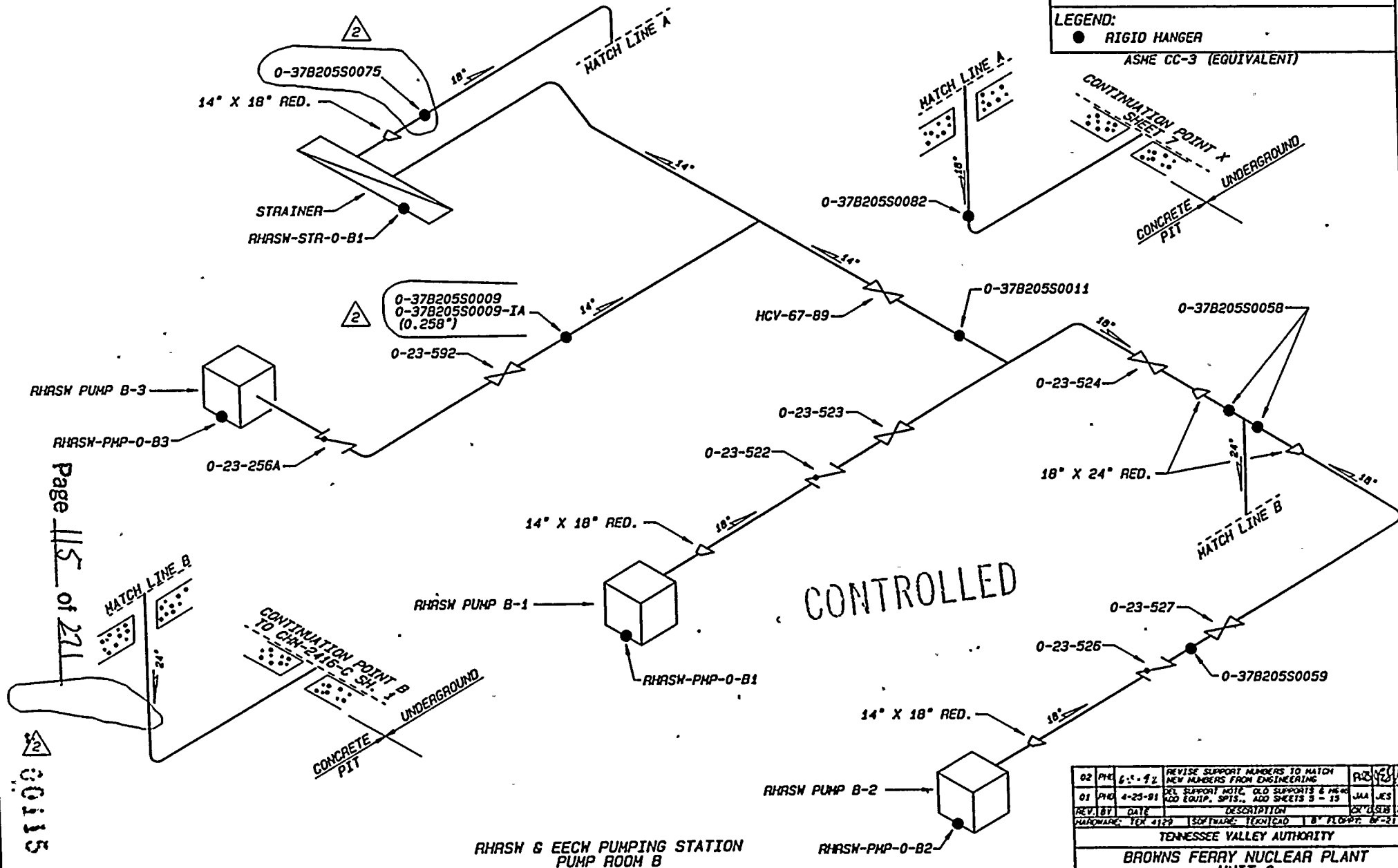
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11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

378205-417  
 378205-428  
 0-378205S0011  
 0-378205S0058  
 0-378205S0059  
 0-378205S0082  
 178300-11

LEGEND:  
 ● RIGID HANGER  
 ASME CC-3 (EQUIVALENT)



CONTROLLED

RHRSH & ECH PUMPING STATION  
 PUMP ROOM B

02	PH	6-1-92	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING	RO	Y	JK
01	PH	4-23-81	REV. SUPPORT NOTE, OLD SUPPORTS & HEAD ADD EQUIP. SPIS., ADD SHEETS 3 - 13	JAA	JES	ALB
REV. BY	DATE	DESCRIPTION	EX. BY	CHK. BY	APP.	
HARDWARE: TYP 4123		SOFTWARE: TERNLEAD	1" PLGPH: 67-21			

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT 0  
 EMERGENCY EQUIPMENT COOLING SYSTEM  
 SUPPORT LOCATIONS

DRAWN: PHB	SUBMITTED: 4-12-80	APPROVED: 4-12-80	SCALE: NTS
DATE: 3-21-80	DATE: 4-12-80	DATE: 4-12-80	SHEET 2 OF 13 SHEETS
DESIGN: JES	EDC	GLB	DRAWING NO. 1ST-0368-C
DATE: 4-17-80			REV. BY

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2009  
 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD MANAGED FOR UNIT: NOT REQUIRED

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30115





78105

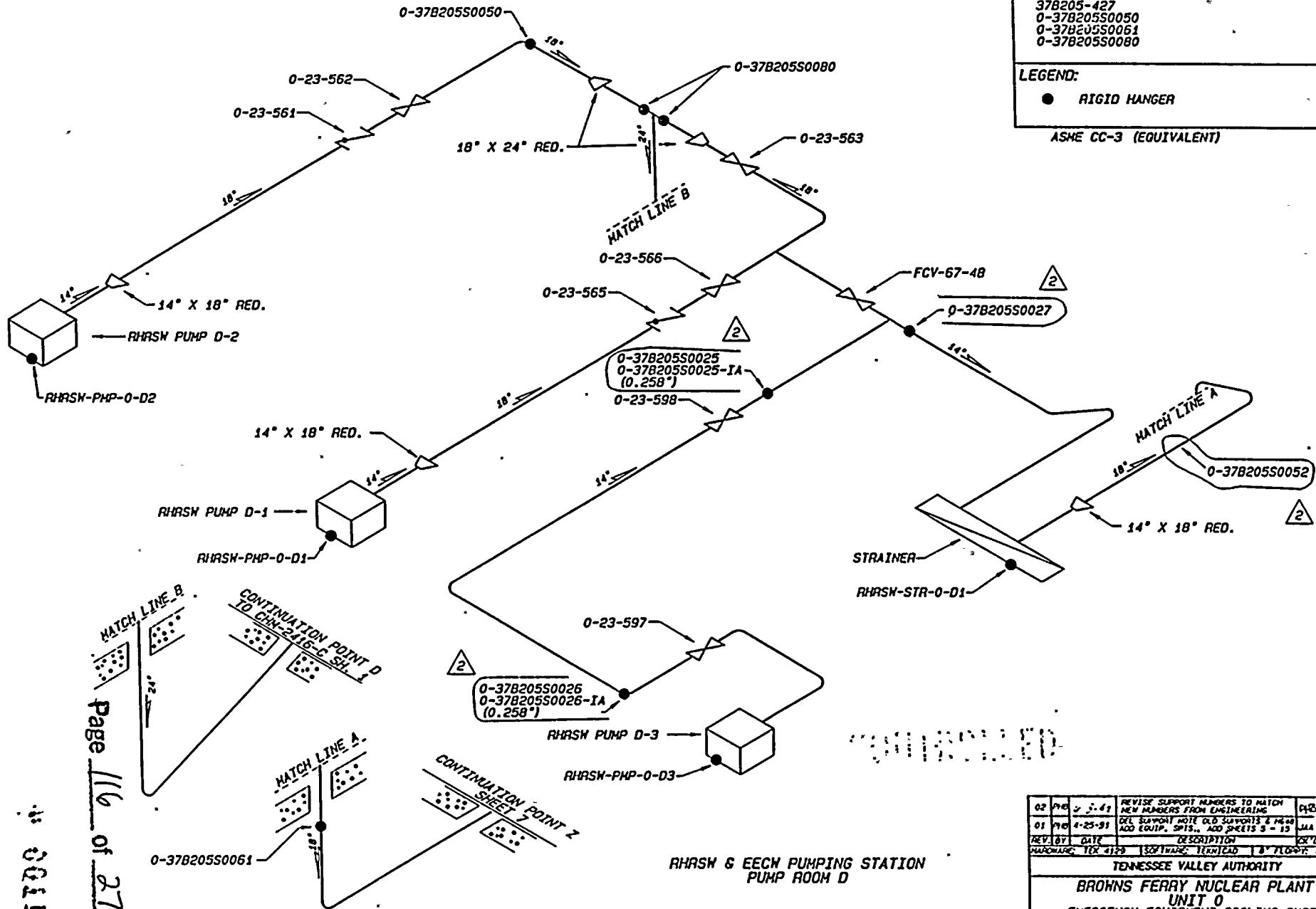
REFERENCE DRAWINGS

37B205-421  
 37B205-424  
 37B205-426  
 37B205-427  
 0-37B205S0050  
 0-37B205S0061  
 0-37B205S0080

LEGEND:

● RIGID HANGER

ASME CC-3 (EQUIVALENT)



02	PHB	5-41	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING	PHB	YED	1/1
01	PHB	4-25-91	DEL. SUPPORT NOTE OLD SUPPORTS & P&ID ADD EQUIP. SPITS., ADD SHEETS 5 - 13	JMA	JCS	0/0
REV	BY	DATE	DESCRIPTION	CHK'D	APP'D	DATE
PURCHASE: TOR 4129			SOFTWARE: TERNLEAD	1 8" FLOOR: 06-91		
TENNESSEE VALLEY AUTHORITY						
BROWNS FERRY NUCLEAR PLANT UNIT 0 EMERGENCY EQUIPMENT COOLING SYSTEM SUPPORT LOCATIONS						
DRWNG	PHB	SUBMITTED	APPROVED	SCALE	NIS	
DATE	3-21-90	DATE	4-17-90	DATE	2-11-90	SERIAL 05 13 282113
DESIGN	JCS	EDC	GLB	DATE	1ST-0368-C 02	

RHRSH & EECM PUMPING STATION  
 PUMP ROOM D

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

Page 116 of 271

44 00115

11/23



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*****
* NUTECH                                TENNESSEE VALLEY AUTHORITY                PRISM
*                                       BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
*                                       ISI DATA BASE
*                                       POST OUTAGE EXAMINATION RESULTS REPORT
*                                       EXAM REQUIREMENT : 86E-02   CYCLE : 07
*                                       INTERVAL : 02   PERIOD : 1
*
*****
* SYSTEM : EECWS EMERGENCY EQUIPMENT COOLING WATER SYSTEM - 067
* ISOMETRIC NUMBER : ISI-0368-C SHEET : 06
*
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
1-47B451R0010-IA	IWA	D-B D2.20	R00000042			VT-3	19940428	PASS			YES	

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*****
* NUTECH                                TENNESSEE VALLEY AUTHORITY                PRISM
*                                       BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
*                                       ISI DATA BASE
*                                       POST OUTAGE EXAMINATION RESULTS REPORT
*                                       EXAM REQUIREMENT : 86E-02   CYCLE : 07
*                                       INTERVAL : 02   PERIOD : 1
*
*****
* SYSTEM : EECWS EMERGENCY EQUIPMENT COOLING WATER SYSTEM - 067
* ISOMETRIC NUMBER : ISI-0368-C SHEET : 12
*
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
1-47B451R0037-IA	IWA	D-B D2.20	R00000058			VT-3	19940519	PASS			YES	

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

UNIT: TWO      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERICAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

80117

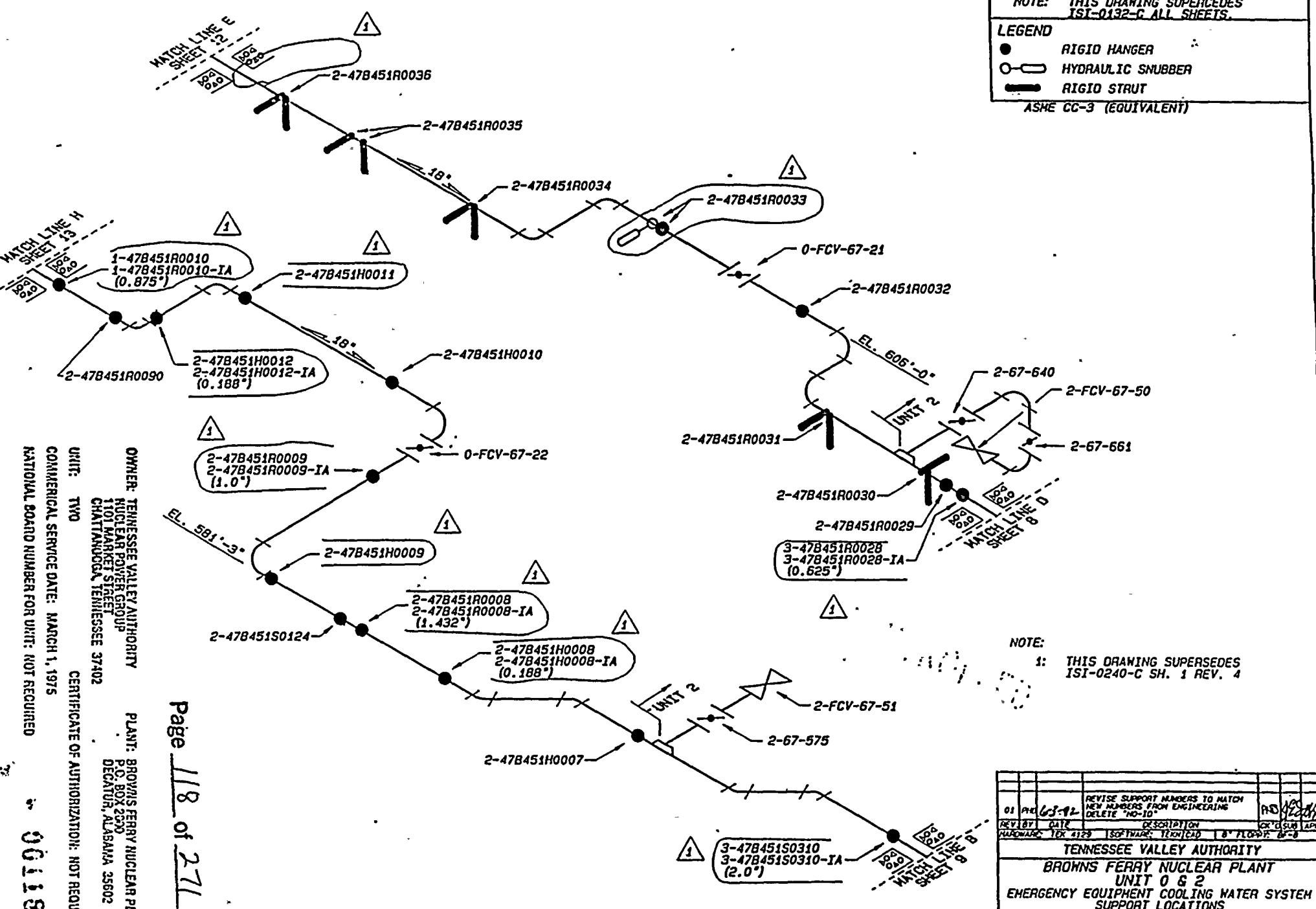


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REFERENCE DRAWINGS  
 47N451-H5  
 47N451-H7  
 NOTE: THIS DRAWING SUPERCEDES  
 ISI-0132-C ALL SHEETS.

LEGEND  
 ● RIGID HANGER  
 ○ HYDRAULIC SNUBBER  
 — RIGID STRUT  
 ASME CC-3 (EQUIVALENT)



NOTE:  
 1: THIS DRAWING SUPERSEDES  
 ISI-0240-C SH. 1 REV. 4

01	REV	6-5-92	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING DELETE "NO-10"	RD	NOV
REV	BY	DATE	DESCRIPTION	CHK'D	APP
REVISION	NO.	DATE	DESCRIPTION	BY	APP
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT 0 & 2					
EMERGENCY EQUIPMENT COOLING WATER SYSTEM					
SUPPORT LOCATIONS					
DRAWN	REV	SUBMITTED	APPROVED	SCALE	RIS
DATE	2-15-91	DATE	4-18-91	DATE	4-28-91
CHECKED	JAA	DATE	4-18-91	SHEET	6 OF 13 SHEET(S)
DATE	4-18-91	REV	JES	DATE	4-28-91
DATE	4-18-91	REV	GLB	DATE	4-28-91

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2550  
 DECATUR, ALABAMA 35602

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

Page 118 of 271

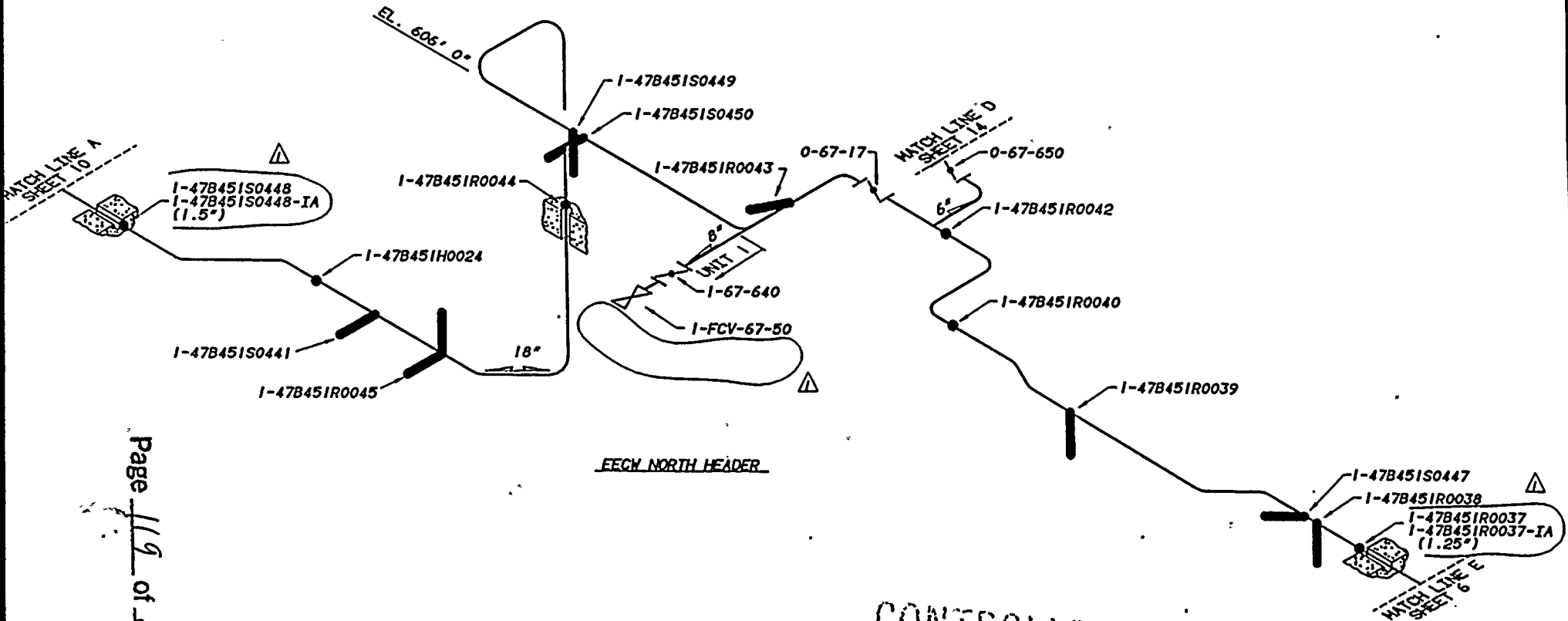
06118

REFERENCE DRAWING:  
47W586 SERIES

LEGEND

- RIGID HANGER
- RIGID STRUT

ASME CC-3 (EQUIVALENT)



Page 119 of 271

CONTROLLED

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

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

NOTE:

1. THIS DRAWING SUPERSEDES ISI-0086-C SH. 3 REV. 2

1	PHD	PHB	DES	PHD	6-3-92
REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING DELETE SUPPORT OUTSIDE BOUNDARY					
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
HARDWARE, IBM SOBS		SOFTWARE, CADAM		USER, ISIDP	
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 0 & 1 EMERGENCY EQUIPMENT COOLING WATER SYSTEM SUPPORT LOCATIONS					
DRAWN, PHD	SUBMITTED	APPROVED	SCALE NTS		
DATE, 6-15-91	DATE, 6-15-91	DATE, 6-28-91	SHEET 12 OF 13 SHEETS		
CHECKED, JJA	DATE, 6-18-91	JES	CB	DRAWING NO.	REV.
DATE, 6-18-91				ISI-0368-C-01	



... ..

...

01103



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* NUTECH                                TENNESSEE VALLEY AUTHORITY                PRISM
*                                       BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
*                                       ISI DATA BASE
*                                       POST OUTAGE EXAMINATION RESULTS REPORT
*                                       EXAM REQUIREMENT : 86E-02   CYCLE : 07
*                                       INTERVAL : 02   PERIOD : 1
*                                       *****
*                                       * PAGE 17
*                                       * REVISION 0002
*                                       * DATE 01/17/95
*                                       *****
*
* SYSTEM : EECWS EMERGENCY EQUIPMENT COOLING WATER SYSTEM - 067
* ISOMETRIC NUMBER : ISI-0368-C SHEET : 13
*
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
1-47B451H0017-IA	IWA	D-B D2.20	R00000036			VT-3	19940427	PASS	YES			
1-47B451R0012-IA	IWA	D-B D2.20	R00000043			VT-3	19940428	PASS	YES			
1-47B451R0013-IA	IWA	D-B D2.20	R00000038			VT-3	19940427	PASS	YES			
1-47B451R0014-IA	IWA	D-B D2.20	R00000039			VT-3	19940427	PASS	YES			

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*****
* NUTECH                                TENNESSEE VALLEY AUTHORITY                PRISM
*                                       BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
*                                       ISI DATA BASE
*                                       POST OUTAGE EXAMINATION RESULTS REPORT
*                                       EXAM REQUIREMENT : 86E-02   CYCLE : 07
*                                       INTERVAL : 02   PERIOD : 1
*                                       *****
*                                       * PAGE 18
*                                       * REVISION 0002
*                                       * DATE 01/17/95
*                                       *****
*
* SYSTEM : EECWS EMERGENCY EQUIPMENT COOLING WATER SYSTEM - 067
* ISOMETRIC NUMBER : ISI-0368-C SHEET : 14
*
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
1-47B451R0055-IA	IWA	D-B D2.20	R00000033			VT-3	19940425	PASS	YES			

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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

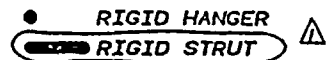
00120



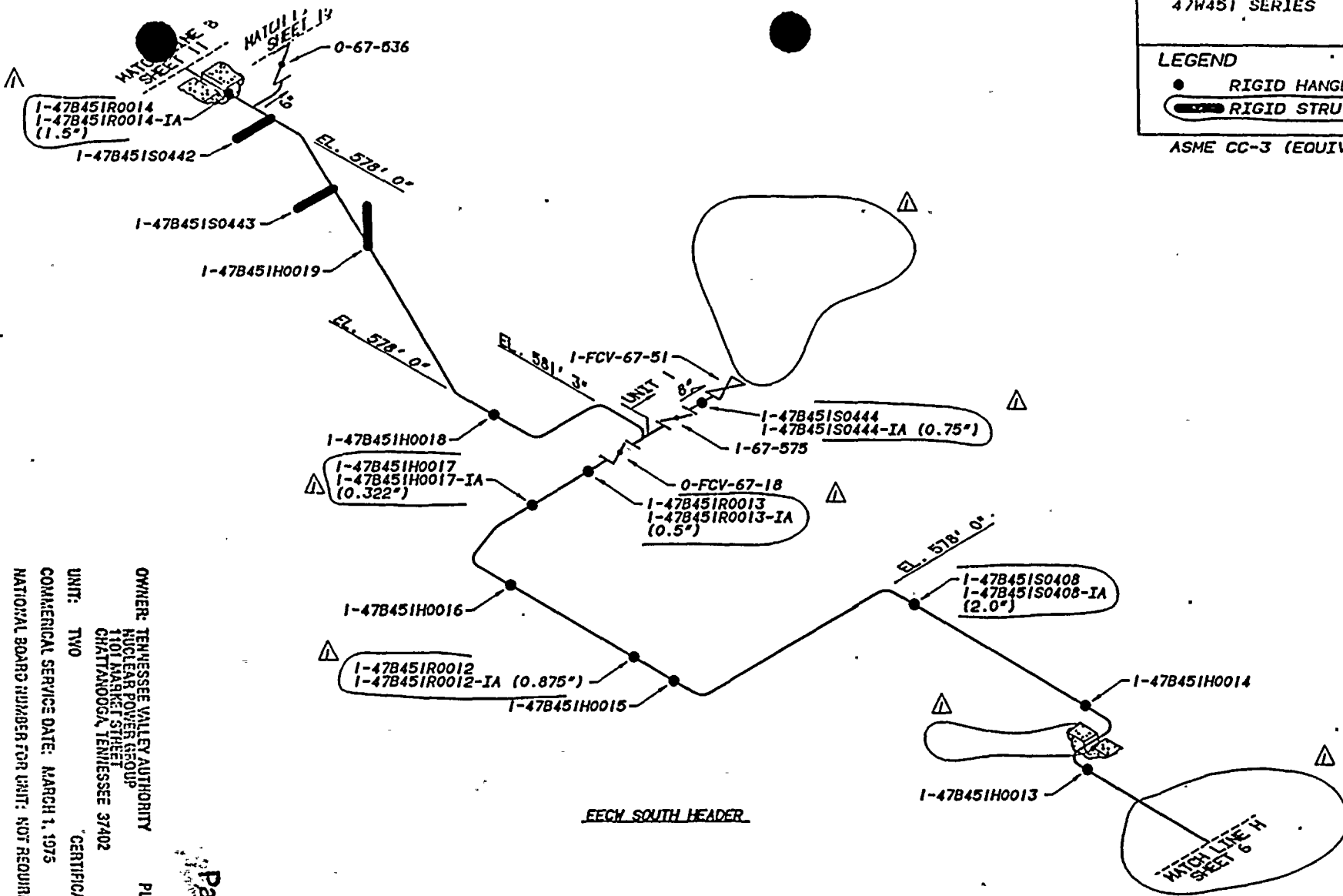
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LEGEND



ASME CC-3 (EQUIVALENT)



FECW SOUTH HEADER

CONTROLLED

NOTE:

1. THIS DRAWING SUPERSEDES ISI-0086-C SH. 4 REV. 2

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

UNIT: TWO

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

Page 121 of 271

1	PHB	PHB	488	1/16	1-1-75
REVISE SUPPORT NUMBER TO MATCH NEW NUMBER FROM ENGINEERING CORRECT MATCH LINE H TO SHEET 6. ADD RIGID STRUT TO LEGEND DELETE SUPPORT OUTSIDE BOUNDARY					
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
		HARDWARE, IBM 5085	SOFTWARE, CADAM	USER, ISTOP	
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 0 & 1 EMERGENCY EQUIPMENT COOLING WATER SYSTEM SUPPORT LOCATIONS					
DRWN: PHB	SUBMITTED	APPROVED	SCALE: NTS		
DATE: 4-15-91	DATE: 4-18-91	DATE: 4-23-91	SHEET 13 OF 13 SHEETS		
CHECKED: JAA	JES	QLB	DRAWING NO.	REV.	
DATE: 4-18-91			ISI-0368-C01		

W. 50121



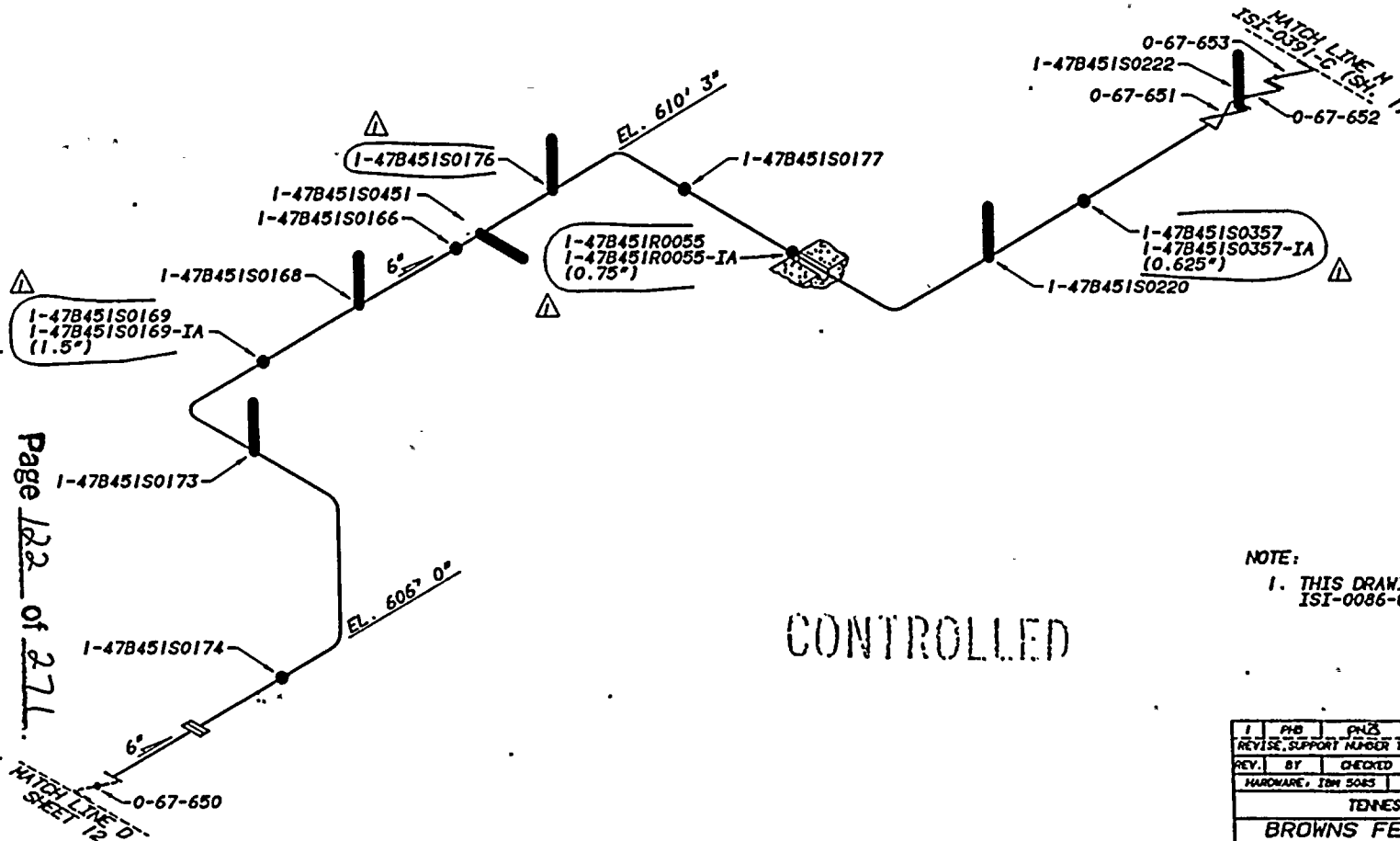
1. 2000  
2. 2000

REFERENCE DRAWING  
47W586 SERIES

LEGEND

- RIGID HANGER
- RIGID STRUT

ASME CC-3 (EQUIVALENT)



NOTE:

1. THIS DRAWING SUPERSEDES ISI-0086-C SH. 6 REV. 1

CONTROLLED

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

UNIT: TWO

COMMERCIAL SERVICE DATE: MARCH 1, 1975

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

Page 122 of 271.

00122

1	PHB	PHB	488	NFB	6-3-92
REVISE: SUPPORT NUMBER TO MATCH KEY NUMBER FROM ENGINEERING					
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
HARDWARE, IBM SOBS		SOFTWARE, CADAM		USER, ISTCOP	
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 0 EMERGENCY EQUIPMENT COOLING WATER SYSTEM SUPPORT LOCATIONS					
DRAWN, PHB	SUBMITTED	APPROVED	SCALE NTS		
DATE: 7-15-91	DATE: 4-18-92	DATE: 4-26-92	SHEET 12 OF 18 SHEETS		
CHECKED, JAA	YES	CLB	DRAWING NO.		
DATE: 4-18-91			REV ISI-0368-C 01		



1950  
1951

1950

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*****
X NUTECH TENNESSEE VALLEY AUTHORITY PRISM
X BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
X ISI DATA BASE
X POST-OUTAGE EXAMINATION RESULTS REPORT *****
X EXAM REQUIREMENT : 86E-02 CYCLE : 07 * PAGE 19
X INTERVAL : 02 PERIOD : 1 * REVISION 0002
X * DATE 01/17/95
*****
X SYSTEM : EECNS EMERGENCY EQUIPMENT COOLING WATER SYSTEM - 067
X ISOMETRIC NUMBER : ISI-0368-C SHEET : 15
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
1-47B451R0054-IA	IWA	D-B D2.20	R00000035			VT-3	19940427	PASS	YES		

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*****
X NUTECH TENNESSEE VALLEY AUTHORITY PRISM
X BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
X ISI DATA BASE
X POST-OUTAGE EXAMINATION RESULTS REPORT *****
X EXAM REQUIREMENT : 86E-02 CYCLE : 07 * PAGE 20
X INTERVAL : 02 PERIOD : 1 * REVISION 0002
X * DATE 01/17/95
*****
X SYSTEM : FDRD FLOOR & DIRTY RADWASTE DRAINAGE - SYSTEM 77 (DRYWELL)
X ISOMETRIC NUMBER : N/A SHEET : 00
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-SI-3.3.02.A	HYDRO	C-H C7.10	R00000457			VT-2	19941112	PASS	YES		
2-SI-3.3.02.B	HYDRO	C-H C7.10	R00000458			VT-2	19941112	PASS	YES		

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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00123



1957

1957

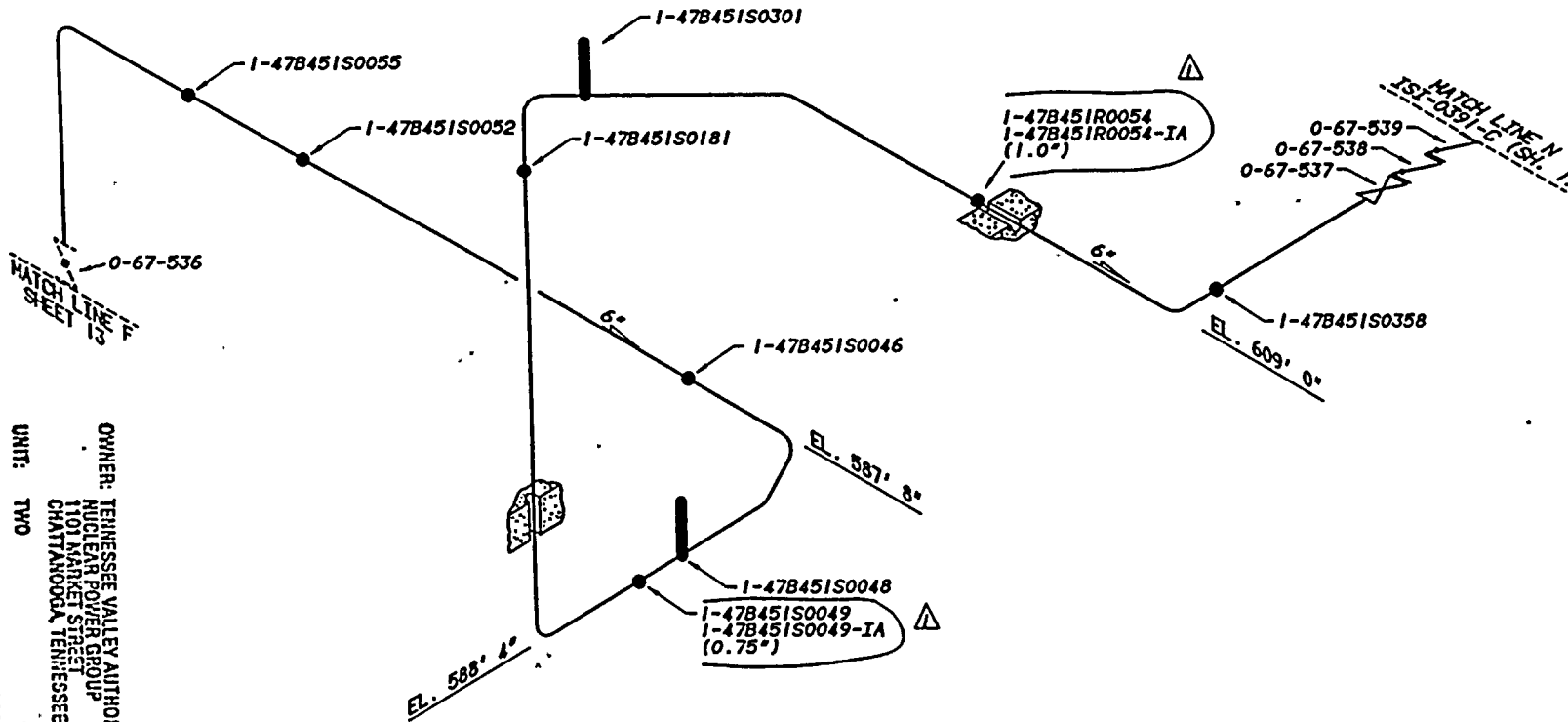


REFERENCE DRAWING  
47W451 SERIES  
47W935 SERIES

LEGEND

- RIGID HANGER
- RIGID STRUT

ASME CC-3 (EQUIVALENT)



NOTE:

1. THIS DRAWING SUPERSEDES ISI-0086-C SH. 7 REV. 1

CONTROLLED

Page 124 of 277

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
P.O. BOX 2500  
DECATUR, ALABAMA 35602

UNIT: TWO  
CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00124

1	PHB	PHB	948	12/26	6-3-92
REVISE SUPPORT HANGERS TO MATCH NEW NUMBERS FROM ENGINEERING					
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
HARDWARE, IBM 5085		SOFTWARE, CADAM		USER, TSI/CP	
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 0 EMERGENCY EQUIPMENT COOLING WATER SYSTEM SUPPORT LOCATIONS					
DRAWN, PHB	SUBMITTED	APPROVED	SCALE: NTS		
DATE: 4-17-91	DATE: 4-17-91	DATE: 5-21-91	SHEET 13 OF 18 SHEETS		
CHECKED, JAA	DATE: 4-18-91	JES	CLB	DRAWING NO.	REV.
				ISI-0368-C-01	



2000  
2000

2000

\*\*\*\*\*  
 NUTECJ TENNESSEE VALLEY AUTHORITY PRISIH  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : FWS FEEDWATER SYSTEM - 003  
 ISOMETRIC NUMBER : ISI-0277-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B415H0001	VSPRING	F-A Fl.40C	R00000413			VT-3	19941025	PASS	YES			
2-47B415H0002-IA	IWA	B-K-1 B10.10	R00000439			HT	19941101	PASS	YES			
2-47B415H0004-IA	IWA	B-K-1 B10.10	R00000440			HT	19941101	PASS	YES			
2-47B415H0005	VSPRING	F-A Fl.10C	R00000335			VT-3	19941021	PASS	YES			
2-47B415H0006-IA	IWA	B-K-1 B10.10	R00000441			HT	19941101	PASS	YES			
2-47B415H0007	VSPRING	F-A Fl.40C	R00000418			VT-3	19941025	PASS	YES			
2-47B415H0008-IA	IWA	B-K-1 B10.10	R00000362			HT	19941023	PASS	YES			
2-47B415H0010	CFORCE2	F-A Fl.10C	R00000351			VT-3	19941022	PASS	YES			
2-47B415H0010-IA	IWA	B-K-1 B10.10	R00000442			HT	19941101	PASS	YES			
2-47B415H0012-IA	IWA	B-K-1 B10.10	R00000443			HT	19941101	PASS	YES			
2-47B415S0002	H SHUB	F-A Fl.10C	R00000336			VT-3	19941021	PASS	YES			

\*\*\*\*\*  
 NUTECJ TENNESSEE VALLEY AUTHORITY PRISIH  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : FWS FEEDWATER SYSTEM - 003  
 ISOMETRIC NUMBER : ISI-0277-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B415S0003-IA	IWA	B-K-1 B10.10	R00000360			HT	19941023	PASS	YES			
2-47B415S0005	H SHUB	F-A Fl.10C	R00000337			VT-3	19941021	PASS	YES			
2-47B415S0008	H SHUB	F-A Fl.10C	R00000339			VT-3	19941021	PASS	YES			
2-47B415S0009-IA	IWA	B-K-1 B10.10	R00000435			HT	19941028	PASS	YES			
2-47B415S0010	H SHUB	F-A Fl.10C	R00000352			VT-3	19941022	PASS	YES			
2-47B415S0014	H SHUB	F-A Fl.10C	R00000340			VT-3	19941021	PASS	YES			
2-47B415S0019	H SHUB	F-A Fl.10C	R00000338			VT-3	19941021	PASS	YES			
2-47B415S0023-IA	IWA	B-K-1 B10.10	R00000363			HT	19941023	PASS	YES			
2-47B415S0025	RIG HGR	F-A Fl.10B	R00000350			VT-3	19941022	PASS	YES			
2-47B415S0025-IA	IWA	B-K-1 B10.10	R00000361			HT	19941023	PASS	YES			

Page 125 of 271

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

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

30125



1954





101

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\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISIH  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073  
 ISOMETRIC NUMBER : ISI-0128-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
THPCI-2-131	PIPE -ELBOW	C-F-2 CS.51	R00000129 R00000169	C00000081	BF-74	HT UT-45	19941005 19941005	PASS PASS	YES YES		GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT

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  
 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISIH  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073  
 ISOMETRIC NUMBER : ISI-0128-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
THPCI-2-003	PIPE -ELBOW	C-F-2 CS.51	R00000083	C00000015	BF-77	HT UT-45	19940621	PASS	YES		GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT
			R00000084	C00000016	BF-77	UT-60	19940621	PASS	YES			
			R00000084	C00000016	BF-77	UT-60	19940621	PASS	YES			
THPCI-2-004B	ELBOW -VALVE	C-F-2 CS.51	R00000075	C00000013	BF-77	HT UT-45	19940607	PASS	YES		GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT NON-RELEVANT NON-RELEVANT NON-RELEVANT
			R00000081	C00000014	BF-77	UT-60	19940607	PASS	YES			
			R00000081	C00000014	BF-77	UT-60	19940607	PASS	YES			
THPCI-2-013	PUMP -PIPE	C-F-2 CS.51	R00000064	C00000011	BF-05	HT UT-45	19940601	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000074	C00000012	BF-05	UT-60	19940602	PASS	YES			
			R00000074	C00000012	BF-05	UT-60	19940602	PASS	YES			
THPCI-2-013F	PIPE -REDUCER	C-F-2 CS.51	R00000065	C00000009	BF-05	HT UT-45	19940601	PASS	YES		GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT
			R00000073	C00000010	BF-05	UT-60	19940602	PASS	YES			
			R00000073	C00000010	BF-05	UT-60	19940602	PASS	YES			
THPCI-2-017	PIPE -FLG	C-F-2 CS.51	R00000108	C00000022	BF-07	HT UT-45	19940928	PASS	YES		GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT
			R00000114	C00000023	BF-07	UT-60	19940928	PASS	YES			
			R00000114	C00000023	BF-07	UT-60	19940928	PASS	YES			
THPCI-2-018	PIPE -ELBOW	C-F-2 CS.51	R00000109	C00000029	BF-07	HT UT-45	19940928	PASS	YES		GEOMETRIC GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT NON-RELEVANT
			R00000118	C00000029	BF-07	UT-45	19940929	PASS	YES			



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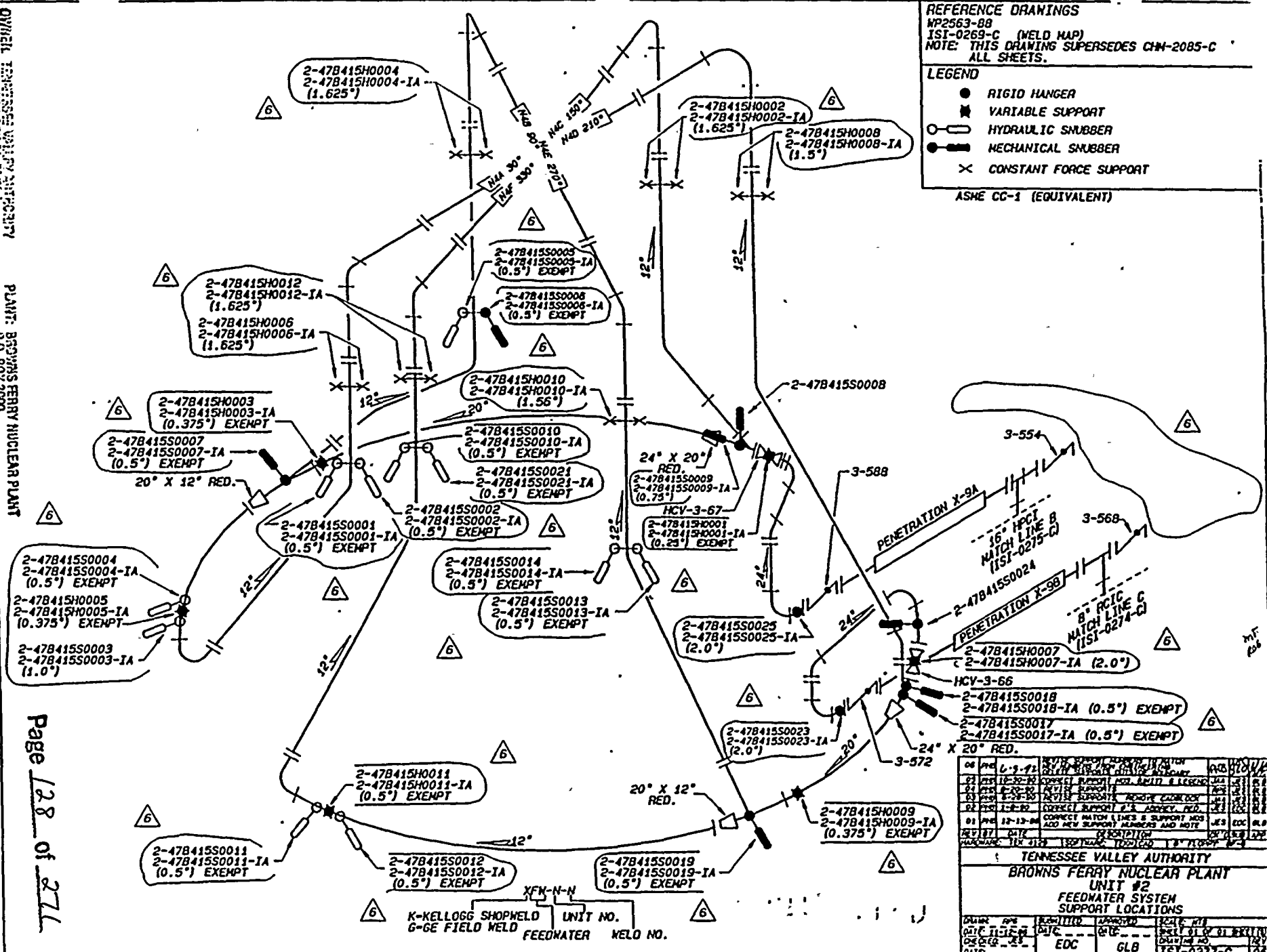


REFERENCE DRAWINGS  
 WP2563-88  
 ISI-0269-C (WELD MAP)  
 NOTE: THIS DRAWING SUPERSEDES CHN-2085-C  
 ALL SHEETS.

LEGEND

- RIGID HANGER
- ⊠ VARIABLE SUPPORT
- HYDRAULIC SHUBBER
- ⊙ MECHANICAL SHUBBER
- × CONSTANT FORCE SUPPORT

ASME CC-1 (EQUIVALENT)



DATE	BY	DESCRIPTION	APP'D	REV
08 APR 69	WJ	ISSUED FOR CONSTRUCTION	WJ	1
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	2
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	3
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	4
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	5
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	6
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	7
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	8
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	9
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	10
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	11
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	12
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	13
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	14
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	15
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	16
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01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	18
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	19
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01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	21
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01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	33
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01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	36
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	37
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	38
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01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	42
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	43
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	44
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	45
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	46
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	47
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	48
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	49
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	50

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT #2  
 FEEDWATER SYSTEM  
 SUPPORT LOCATIONS

DATE	BY	DESCRIPTION	APP'D	REV
08 APR 69	WJ	ISSUED FOR CONSTRUCTION	WJ	1
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	2
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	3
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	4
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	5
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	6
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	7
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	8
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	9
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	10
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	11
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	12
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	13
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	14
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	15
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	16
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	17
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	18
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	19
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	20
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	21
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	22
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	23
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	24
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	25
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	26
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	27
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	28
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	29
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	30
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	31
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	32
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	33
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	34
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	35
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	36
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	37
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	38
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	39
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	40
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	41
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	42
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	43
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	44
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	45
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	46
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	47
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	48
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	49
01 MAY 69	WJ	REVISED TO ADD UNIT 2 LEGEND	WJ	50

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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00138



100-354-104

63100 - 1

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*****
NUTECH
TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT : 86E-02 CYCLE : 07
INTERVAL : 02 PERIOD : 1
PRISM
*****
SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073
ISOMETRIC NUMBER : ISI-0128-C SHEET : 02
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
THPCI-2-018	PIPE -ELBOW	C-F-2 C5.51	R00000118	C00000030	BF-07	UT-60	19940929	PASS	YES	GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT

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*****
NUTECH
TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT : 86E-02 CYCLE : 07
INTERVAL : 02 PERIOD : 1
PRISM
*****
SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073
ISOMETRIC NUMBER : ISI-0130-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B455H0060	VSPRING	F-A F1.20C	R00000066			VT-3	19940609	FAIL	YES	LOOSE, MISS. BLTNG TCHTN INC SETTING	BLTNG TCHTN COMP RESET
			R00000066			VT-3	19940613	PASS	YES		
2-47B455H0061	VSPRING	F-A F1.20C	R00000077			VT-3	19940609	PASS	YES		

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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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00130

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1956

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

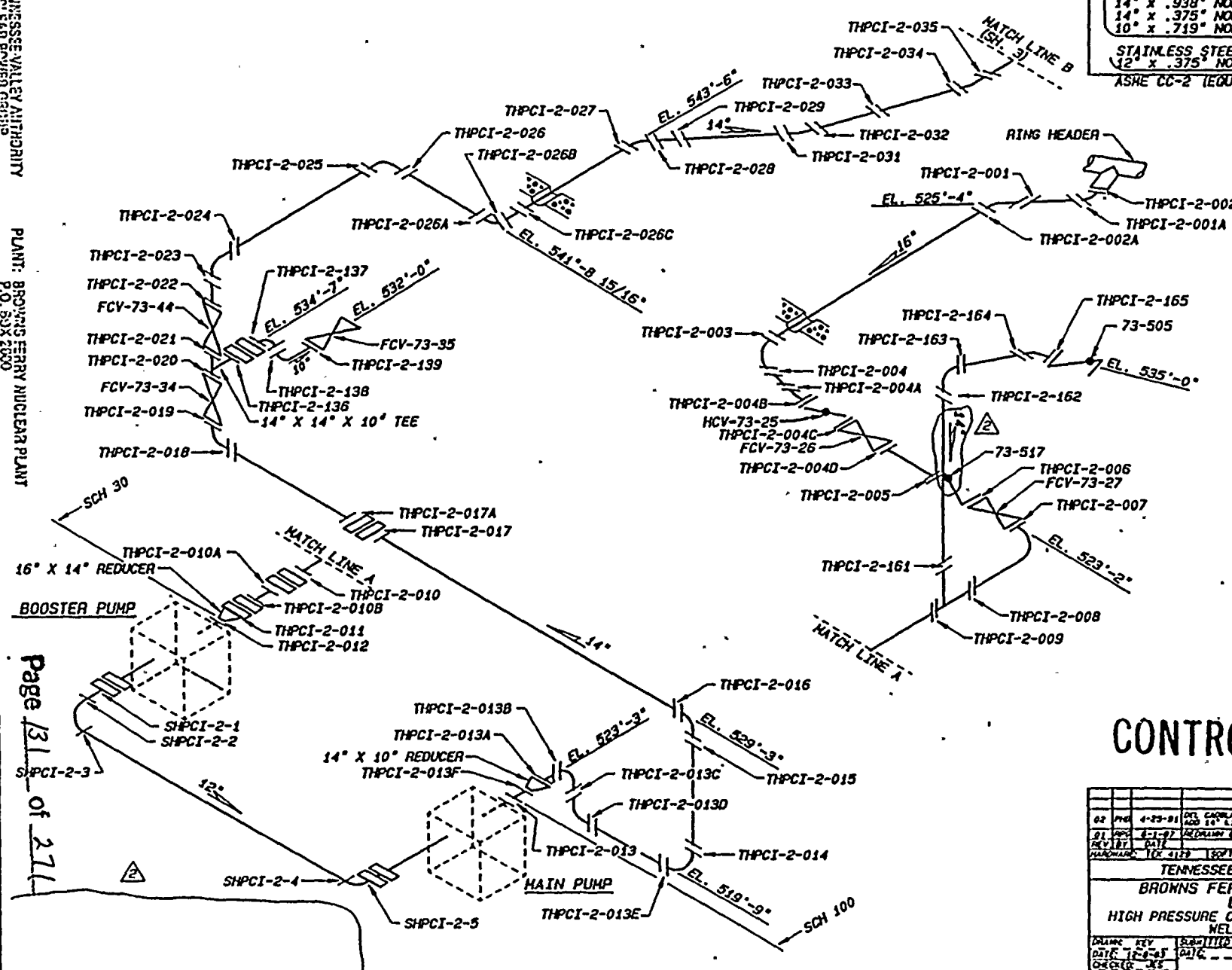
UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

OWNER: TENNESSEE VALLEY AUTHORITY  
PLANT: BROWNS FERRY NUCLEAR PLANT  
HIGH PRESSURE COOLANT INJECTION SYSTEM  
CHATTANOOGA, TENNESSEE 37402

REFERENCE DRAWINGS  
(47N335-9-11)  
ISI-0130-C (SH. 2) SUPPORT MAP

MATERIAL SPECIFICATIONS			
CARBON STEEL			
16" x .375"	NOM. WALL THK.	SCH 30	
14" x .938"	NOM. WALL THK.	SCH 100	
14" x .375"	NOM. WALL THK.	SCH 30	
10" x .719"	NOM. WALL THK.	SCH 100	
STAINLESS STEEL			
12" x .375"	NOM. WALL THK.	SCH 409	
ASME CC-2 (EQUIVALENT)			



**CONTROLLED**

NO.	REV.	DATE	DESCRIPTION	BY	CHKD.
02	01	4-23-81	DEL. CHANGE REV. REF. DIMS & HVL. SPEC. AND 16\"/>		
01	01	4-1-81	REVISIONS & REVISED FOR PULLING		
00	01	10-2-79	DESCRIPTION		
00	01	10-2-79	150\"/>		

TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT  
UNIT # 2  
HIGH PRESSURE COOLANT INJECTION SYSTEM  
WELD LOCATIONS

DRAWING	REV.	DATE	BY	CHKD.	SCALE	DATE
ISI-0130-C	02	4-23-81	GLB		AS SHOWN	4-23-81

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00131



1000

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M POST OUTAGE EXAMINATION RESULTS REPORT M
M EXAM REQUIREMENT : 86E-02 CYCLE : 07 M
M INTERVAL : 02 PERIOD : 1 M
*****
M SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073 M
M ISOMETRIC NUMBER : ISI-0130-C SHEET : 02 M
*****

```

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B455H0066	VSPRING	F-A Fl.20C	R00000078			VT-3	19940609	PASS	YES			

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M POST OUTAGE EXAMINATION RESULTS REPORT M
M EXAM REQUIREMENT : 86E-02 CYCLE : 07 M
M INTERVAL : 02 PERIOD : 1 M
*****
M SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073 M
M ISOMETRIC NUMBER : ISI-0275-C SHEET : 01 M
*****

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B455H0152-IA	IWA	B-K-1 B10.10	R00000221			HT	19941013	PASS	YES			
2-47B455S0003	RIG HGR	F-A Fl.10B	R00000235			VT-3	19941015	PASS	YES			

Page 132 of 271

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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00132

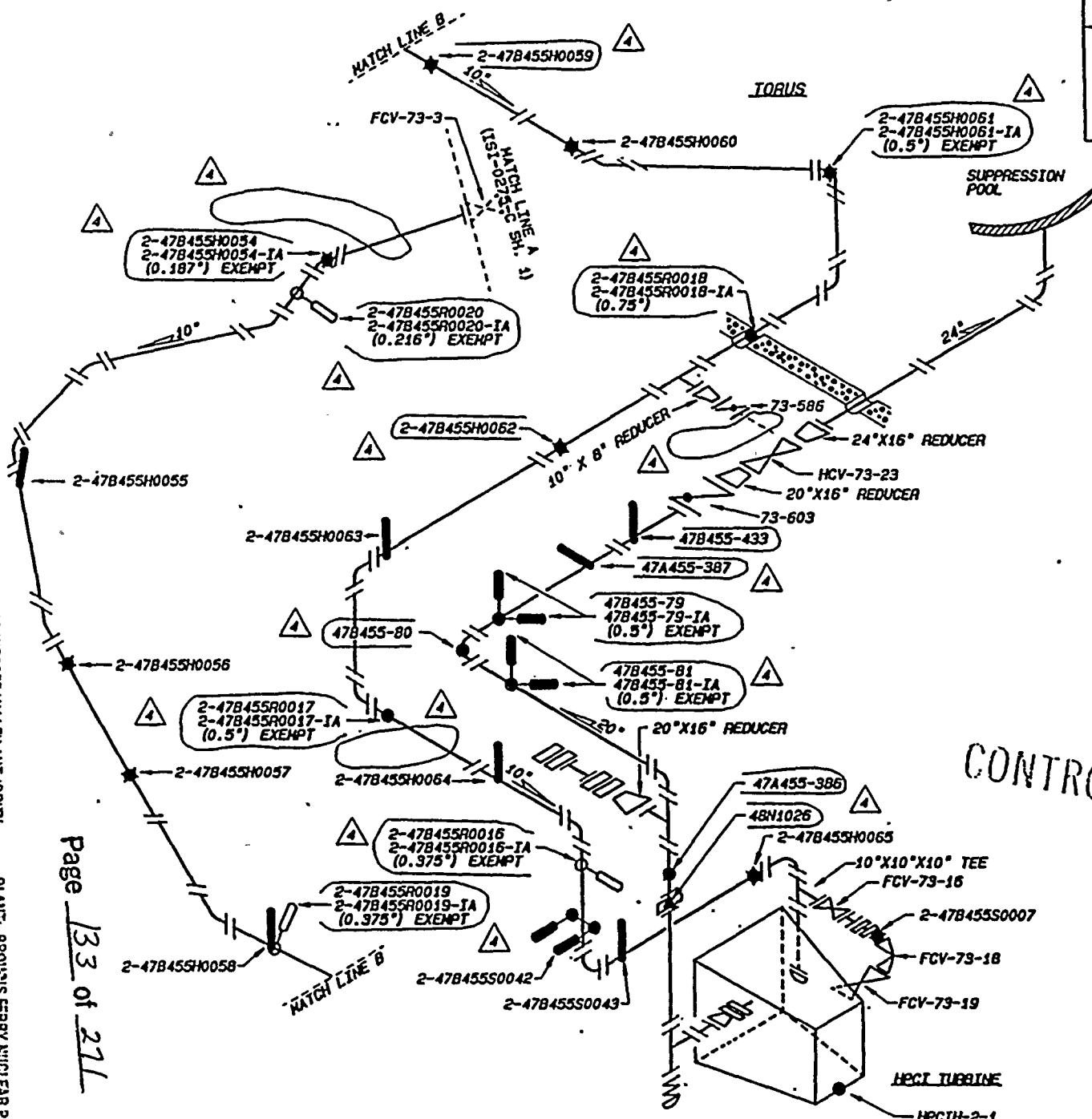




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REFERENCE DRAWINGS  
 47B455-H-6, 7, 203  
 ISI-0128-C (SH. 1) WELD MAP

LEGEND  
 ● RIGID HANGER  
 ○ VARIABLE SUPPORT  
 ○ HYDRAULIC SNUBBER  
 ○ MECHANICAL SNUBBER  
 ▲ ANCHOR  
 — RIGID STRUT  
 ASME CC-2 (EQUIVALENT)



CONTROLLED

DATE	BY	REVISION	DESCRIPTION	APP'D	CHK'D
04 FEB 73	JL	42	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
02 FEB 73	JL	41	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	40	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	39	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	38	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	37	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	36	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	35	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	34	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	33	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	32	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	31	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	30	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	29	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	28	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	27	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	26	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	25	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	24	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	23	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	22	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	21	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	20	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	19	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	18	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	17	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	16	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	15	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	14	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	13	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	12	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	11	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	10	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	9	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	8	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	7	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	6	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	5	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	4	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	3	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	2	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		
01 FEB 73	JL	1	REVISE SUPPORT NUMBERS TO MATCH REV NUMBERS FROM DISCREPANCY CHECK SUPPORTS OUTSIDE BOUNDARY		

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT # 2  
 HIGH PRESSURE COOLANT INJECTION SYSTEM  
 SUPPORT LOCATIONS

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2300  
 DECATUR, ALABAMA 35502

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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00133



1954

1954

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

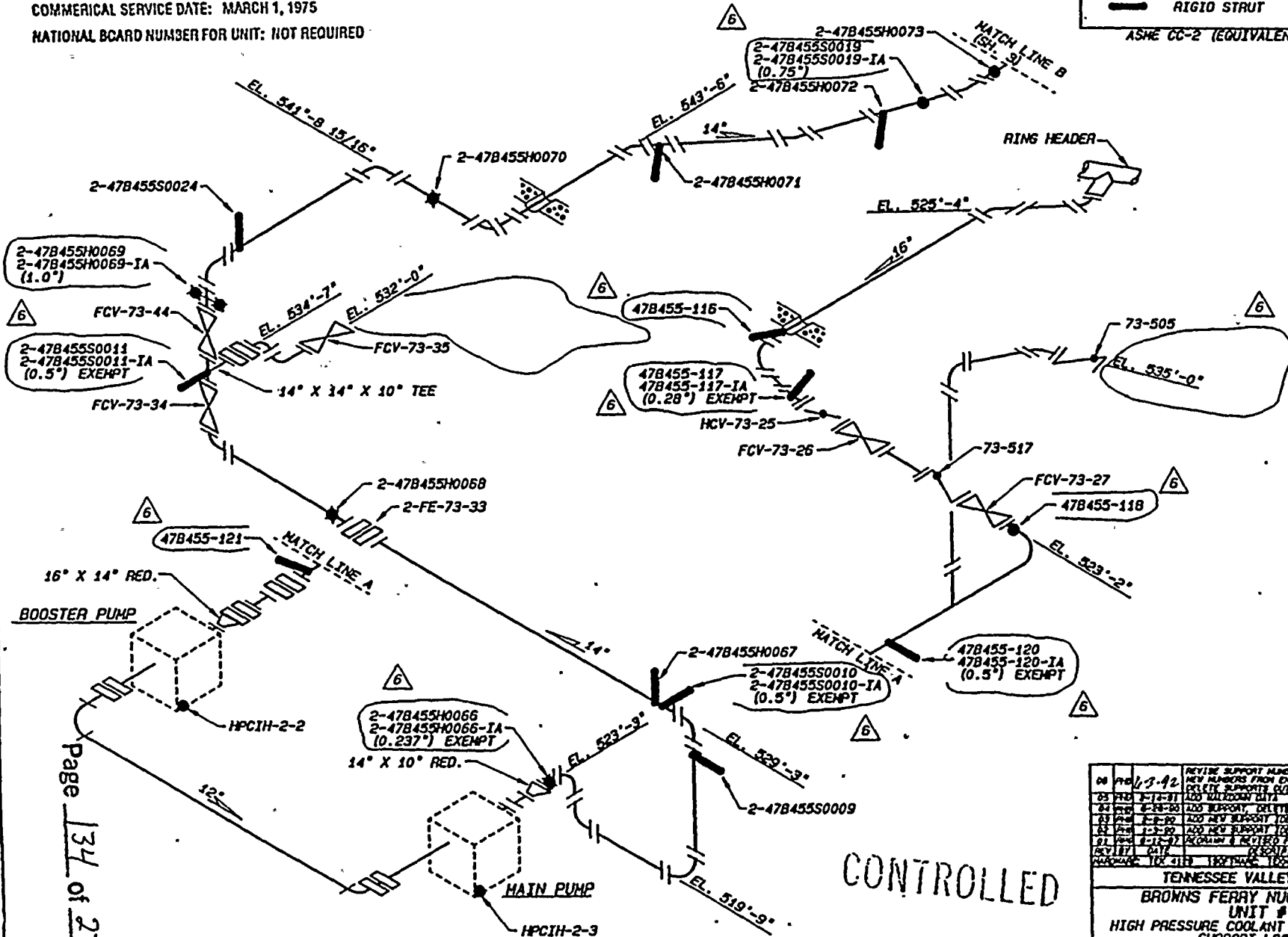
PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2030  
 DECATUR, ALABAMA 35602

REFERENCE DRAWINGS  
 47N455-H SERIES  
 ISI-0128-C (SH. 2) WELD MAP

LEGEND  
 ● RIGID HANGER  
 ○ VARIABLE SUPPORT  
 — RIGID STRUT

ASME CC-2 (EQUIVALENT)

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED



CONTROLLED

08	REV	13-92	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING. DELETE SUPPORTS OUTSIDE BOUNDARY.	PKS	1/23/92
07	REV	7-18-81	ADD BOUNDARY OUTLINE.	PKS	7/23/81
06	REV	6-18-80	ADD SUPPORT, DELETE OLD NUMBERS.	PKS	6/18/80
05	REV	5-18-80	ADD NEW SUPPORT IDENTIFICATION.	PKS	5/18/80
04	REV	4-18-80	ADD NEW SUPPORT IDENTIFICATION & PART NUMBER.	PKS	4/18/80
03	REV	3-18-80	ADD NEW SUPPORT IDENTIFICATION & PART NUMBER.	PKS	3/18/80
02	REV	2-18-80	ADD NEW SUPPORT IDENTIFICATION & PART NUMBER.	PKS	2/18/80
01	REV	1-18-80	ADD NEW SUPPORT IDENTIFICATION & PART NUMBER.	PKS	1/18/80
REVISION DATE			DESCRIPTION	BY	CHK
08-04-80			13-92	PKS	PKS
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT # 2					
HIGH PRESSURE COOLANT INJECTION SYSTEM					
SUPPORT LOCATIONS					
DATE	BY	DATE	DATE	DATE	DATE
08-04-80	PKS	08-04-80	08-04-80	08-04-80	08-04-80
DATE	BY	DATE	DATE	DATE	DATE
	GLB				
ISI-0130-C 108					

Page 134 of 271  
 00134



1950

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1952

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NUTECH                TENNESSEE VALLEY AUTHORITY                PRISIM
BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT : 86E-02    CYCLE : 07
INTERVAL : 02                PERIOD : 1
*****
SYSTEM                : HSS  MAIN STEAM SYSTEM - 001
ISOHERMIC NUMBER     : ISI-0079-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
HS-2-H-13-IA	IWA	C-C C3.20	R00000343			HT	19941021	PASS	YES			
HS-2-H-14-IA	IWA	C-C C3.20	R00000344			HT	19941021	PASS	YES			
HS-2-H-15-IA	IWA	C-C C3.20	R00000345			HT	19941021	PASS	YES			
HS-2-H-16-IA	IWA	C-C C3.20	R00000346			HT	19941021	PASS	YES			

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*****
NUTECH                TENNESSEE VALLEY AUTHORITY                PRISIM
BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT : 86E-02    CYCLE : 07
INTERVAL : 02                PERIOD : 1
*****
SYSTEM                : HSS  MAIN STEAM SYSTEM - 001
ISOHERMIC NUMBER     : ISI-0279-C SHEET : 02
*****

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B400S0039	RIG HGR	F-A F1.10A	R00000392			VT-3	19941024	PASS	YES			

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

UNIT: TWO

COMMERCIAL SERVICE DATE: MARCH 1, 1975

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

REGULATORY BOARD NUMBER FOR UNIT: NOT REQUIRED

00135

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1000 1961

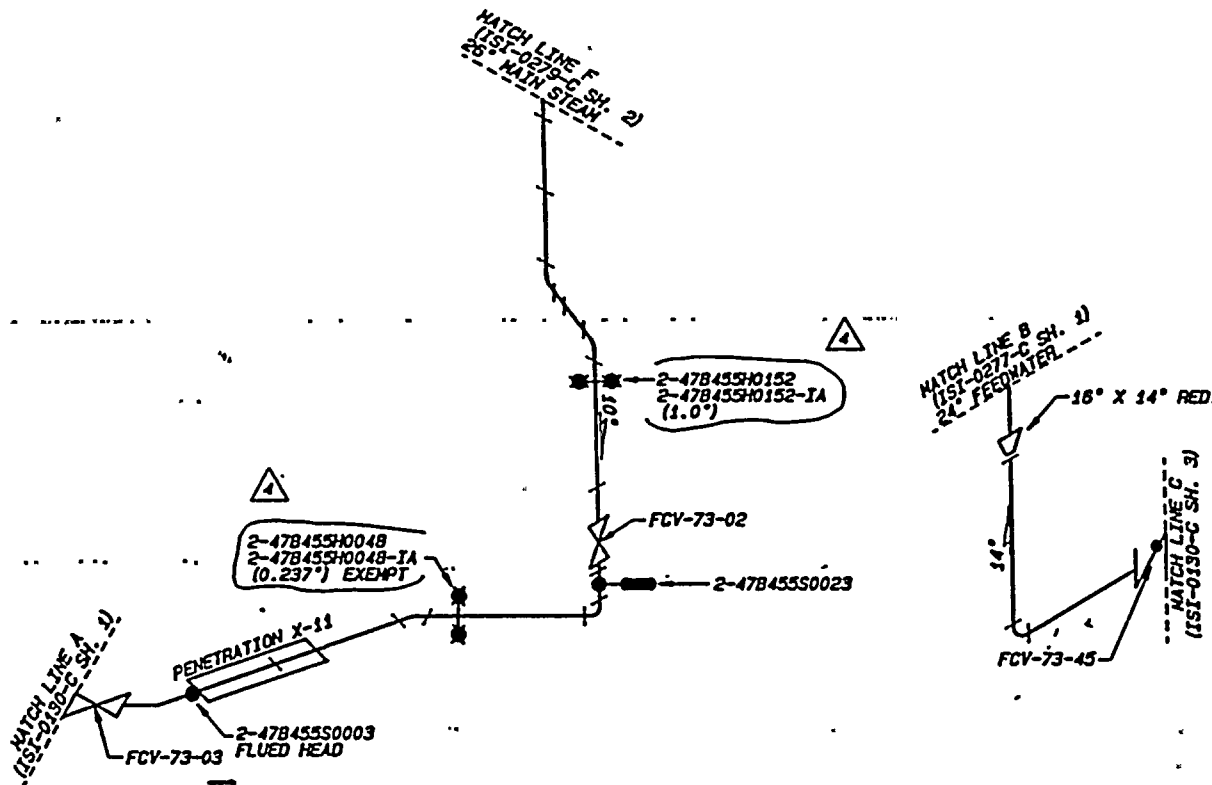
REFERENCE DRAWINGS

47W455-4  
 ISI-0273-C (SH. 1) WELD MAP  
 NOTE: THIS DRAWING SUPERCEDES CHN-2083-C  
 ALL SHEETS.

LEGEND:

- RIGID HANGER
- ⊕ VARIABLE SUPPORT
- HYDRAULIC SNUBBER
- MECHANICAL SNUBBER

ASME CC-1 (EQUIVALENT)



Page 136 of 271

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

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

04	REV	6-3-72	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING	RSB	10/27	10/27
03	REV	5-11-72	ENCL. CHANGE & NOTE, REV. EDC AND EDC	JLS	10/27	10/27
02	REV	1-2-70	CORRECT SUPPORT NO., ABBREV. MED.	JLS	10/27	10/27
01	REV	8-26-68	CORRECT MATCH LINES AND ADD SUPPORT NUMBER AND ADD NOTE	JLS	10/27	10/27
REV BY	DATE	DESCRIPTION	BY	DATE	DATE	
00	12-11-67	ISSUANCE	JLS	12-11-67	12-11-67	
TENNESSEE VALLEY AUTHORITY						
BROWNS FERRY NUCLEAR PLANT						
UNIT 2						
HIGH PRESSURE COOLANT INJECTION						
SUPPORT LOCATIONS						
DATE	REV	BY	DESCRIPTION	DATE	DATE	
00	7-17-77	EDC	GLB	7-17-77	7-17-77	
00	6-12-80	EDC	GLB	6-12-80	6-12-80	

00136



10-11-63 100 250

00100

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

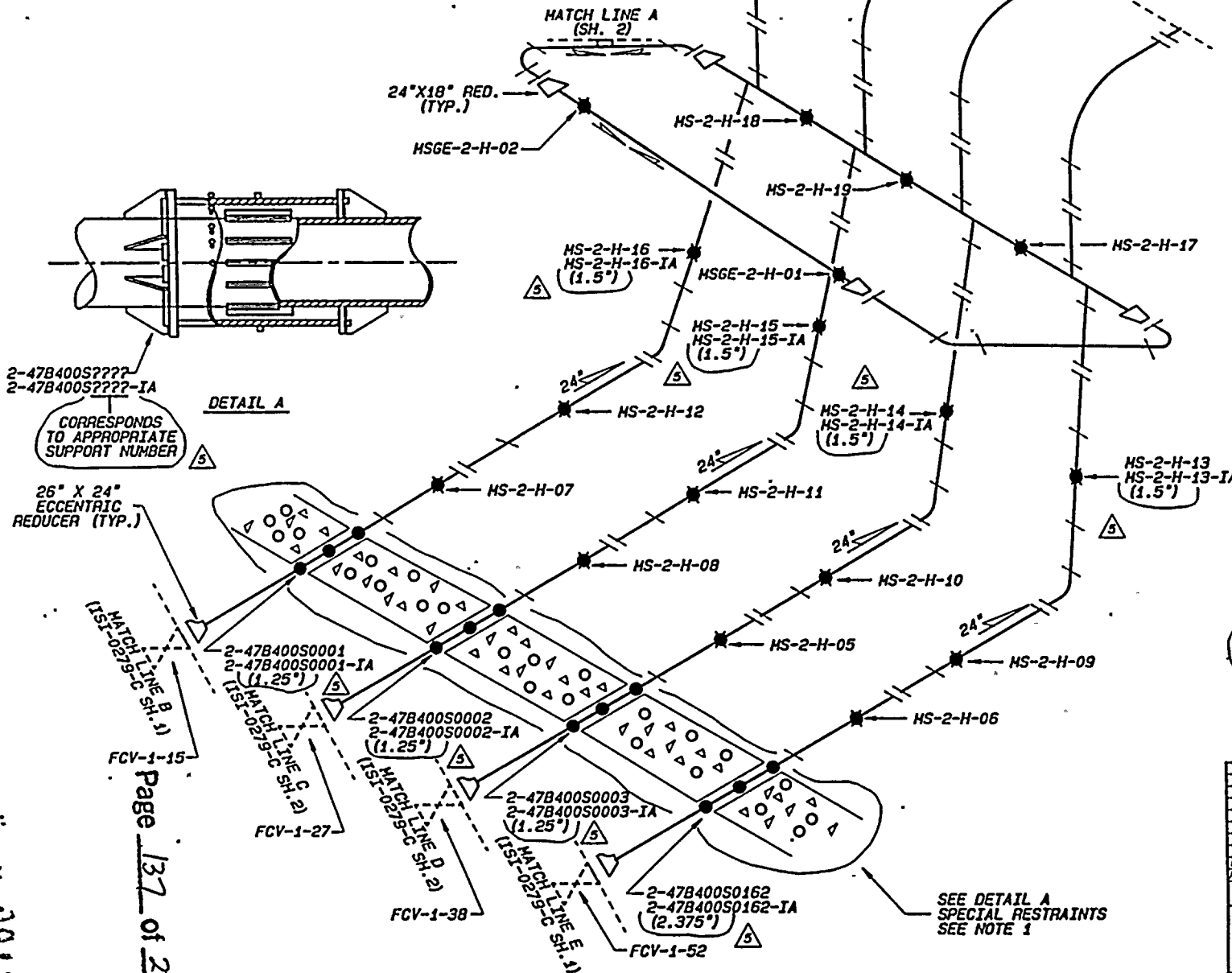
UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REFERENCE DRAWING:  
 BP-201-5  
 47H400 SH. 1 & 5  
 MSG-0021-C (SH. 1) WELD MAP

LEGEND

- RIGID HANGER
- ⊛ VARIABLE SUPPORT

ASME CC-2 (EQUIVALENT)



**DETAIL A**  
 CORRESPONDS TO APPROPRIATE SUPPORT NUMBER

CONTROLLED

REV.	DATE	DESCRIPTION	BY	CHK'D	APP'D
01	08/12/74	ADD THICKNESS TO 1 1/2" & DEL/MOVE NOTES	MS	MS	MS
02	08/12/74	DEL. LABELS, ADD WALKDOWN DATA	JAA	JES	MS
03	08/11/75	REVISED MATCH LINES, REMOVED 1A'S	JES	MS	MS
04	08/22/77	REDRAWN & REVISED FOR 211	JES	MS	MS
01	01/23/80	ADD NUMBER & ASTERISK DESIGNATE 1A	JIT	MS	MS

<b>TENNESSEE VALLEY AUTHORITY</b> <b>BROWNS FERRY NUCLEAR PLANT</b> <b>UNIT #2</b> <b>MAINSTEAM SYSTEM</b> <b>SUPPORT LOCATIONS</b>			
DRAWN	SUBMITTED	APPROVED	SCALE: NIS
DATE	DATE	DATE	SHEET 1 OF 2 SHEET(S)
DESIGNED		GLB	DRAWING NO.
DATE			ISI-0079-C

00137

Page 137 of 211



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\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISIH  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : HSS MAIN STEAM SYSTEM - 001  
 ISOMETRIC NUMBER : ISI-0412-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
47B2401-02-IA	IWA	D-B D2.30	R00000307			VT-3	19941019	PASS	YES			
47B2401-04-IA	IWA	D-B D2.40	R00000308			VT-3	19941019	PASS	YES			
47B2401-09-IA	IWA	D-B D2.30	R00000309			VT-3	19941019	PASS	YES			
47B2401-13-IA	IWA	D-B D2.30	R00000310			VT-3	19941019	PASS	YES			
47B2401-49	HSNUB-2	F-A F1.30C	R00000306			VT-3	19941019	PASS	YES			
47B2401-52	RIG HCR	F-A F1.30B	R00000305			VT-3	19941019	PASS	YES			

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISIH  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : HSS MAIN STEAM SYSTEM - 001  
 ISOMETRIC NUMBER : ISI-0412-C SHEET : 03  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
HSRV-2-R-26	RIG HCR	F-A F1.30B	R00000398			VT-3	19941024	PASS	YES			
HSRV-2-R-70	ANCHORS	F-A F1.30B	R00000394			VT-3	19941024	PASS	YES			

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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  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 00108



152

1000






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

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

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

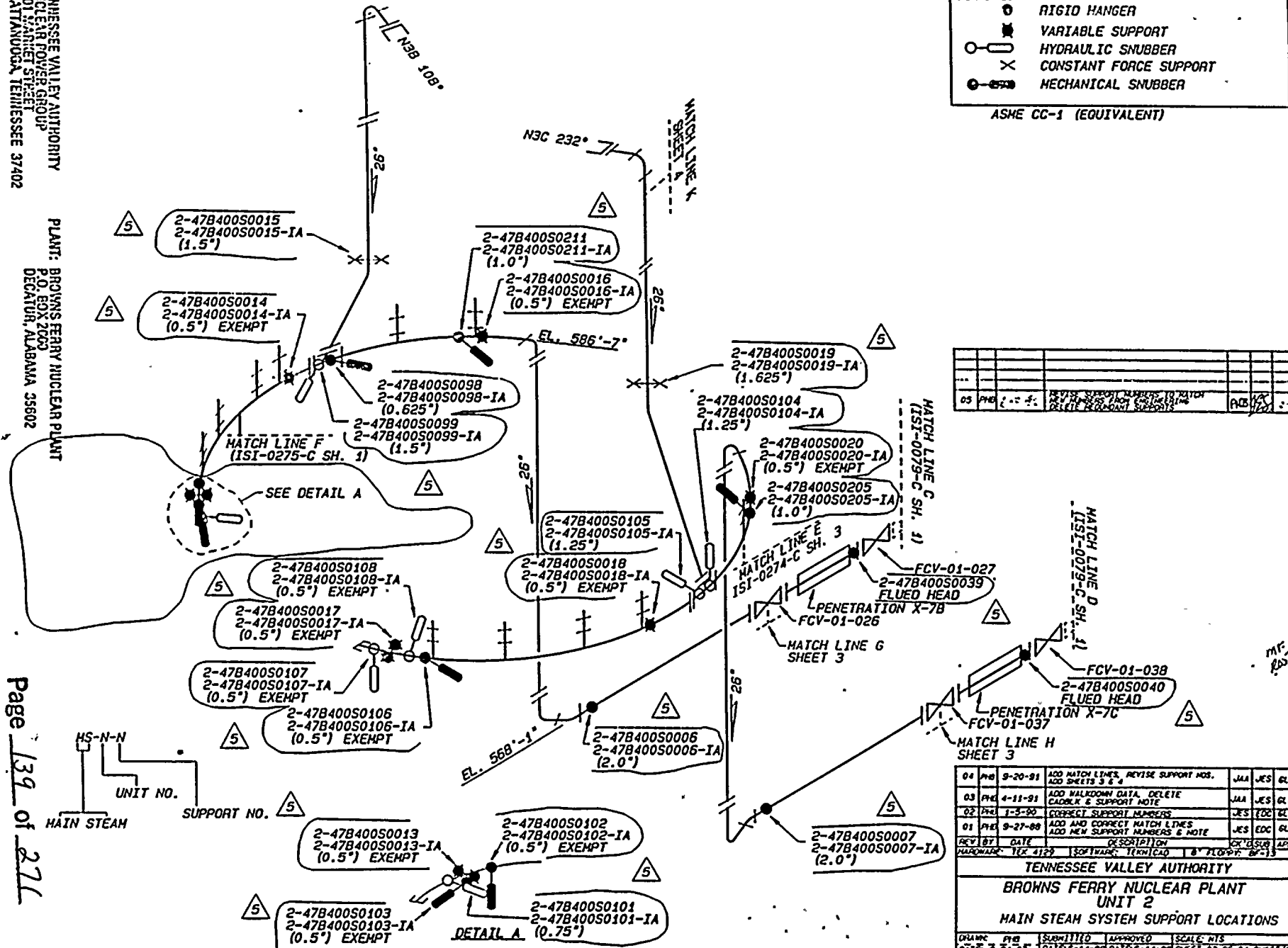
CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

REFERENCE DRAWINGS:  
 GE 729E401 SH. 1 & 2  
 ISI-0222-C SH. 2 (WELD MAP)  
 NOTE: THIS DRAWING SUPERCEDES CHH-2087-C SH. 2

LEGEND:  
 RIGID HANGER  
 VARIABLE SUPPORT  
 HYDRAULIC SNUBBER  
 CONSTANT FORCE SUPPORT  
 MECHANICAL SNUBBER

ASME CC-1 (EQUIVALENT)

05	PHG	1-2-80	ADD MATCH LINES TO MATCH	AB	1
----	-----	--------	--------------------------	----	---



NO	PH	DATE	DESCRIPTION	DESIGNED	CHECKED	APP'D
04	PHB	9-20-81	ADD MATCH LINES, REVISE SUPPORT NOS.	JAA	JES	GLB
03	PHB	4-11-81	ADD WALKDOWN DATA, DELETE CADBLK & SUPPORT NOTE	JAA	JES	GLB
02	PHB	1-3-80	CORRECT SUPPORT NUMBERS	JES	EDC	GLB
01	PHB	9-27-80	ADD AND CORRECT MATCH LINES	JES	EDC	GLB
			ADD NEW SUPPORT NUMBERS & NOTE	JES	EDC	GLB
REV	BY	DATE	DESCRIPTION	DESIGNED	CHECKED	APP'D
		12X 3129	SOFTWARE: TRN1C10 1 8" PLOT: 8F-13			

TENNESSEE VALLEY AUTHORITY  
 BROOKS FERRY NUCLEAR PLANT  
 UNIT 2  
 MAIN STEAM SYSTEM SUPPORT LOCATIONS

DRWING	PHB	SUBMITTED	APPROVED	SCALE: NTS
DATE: 8-21-87		DATE: 8-12-88	DATE: 8-12-88	SHEET 02 OF 04 SHEET(S)
CREATED: JES		EDC	GLB	DRAWING NO. ISI-0279-C
DATE: 8-14-88				REV 05

Page 139 of 276

00133



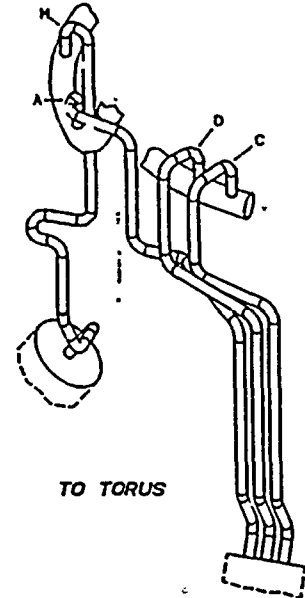
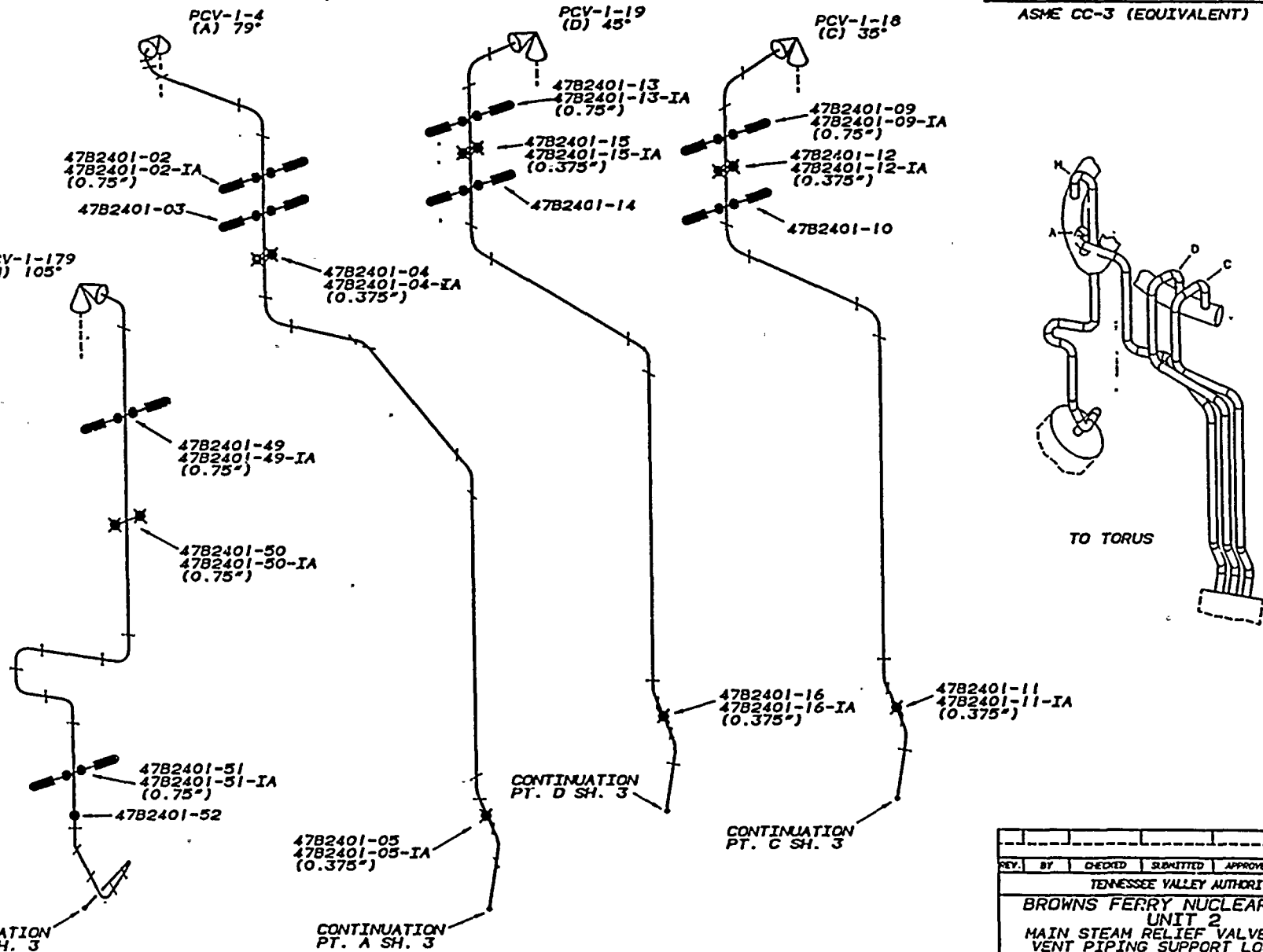
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REFERENCE DRAWINGS  
47N401 SERIES

LEGEND

- ✱ VARIABLE SUPPORT
- MECHANICAL SNUBBER

ASME CC-3 (EQUIVALENT)



REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 2 MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORT LOCATIONS					
DRAWN:	PHS	DATE:	7/11/92	SCALE:	MIS
CHECKED:	PHS	APPROVED:	[Signature]	SHEET:	02 OF 09
SUBMITTED:	7/8/92				ISI-0412-C00

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

Page 140 of 211

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

00140

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

CONTINUATION  
PT. H SH. 3

47B2401-05  
47B2401-05-IA  
(0.375")

CONTINUATION  
PT. A SH. 3

CONTINUATION  
PT. D SH. 3

CONTINUATION  
PT. C SH. 3





1950

1951

1952

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISIH M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M POST OUTAGE EXAMINATION RESULTS REPORT M
M EXAM REQUIREMENT : 86E-02 CYCLE : 07 M
M INTERVAL : 02 PERIOD : 1 M
*****
M SYSTEM : HSS MAIN STEAM SYSTEM - 001 M
M ISOMETRIC NUMBER : ISI-0412-C SHEET : 05 M
*****

```

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
HSRV-2-R-X4	RIGHGR3	F-A F1.30B	R00000396			VT-3	19941024	PASS	YES			

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M NUTECH TENNESSEE VALLEY AUTHORITY PRISIH M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M POST OUTAGE EXAMINATION RESULTS REPORT M
M EXAM REQUIREMENT : 86E-02 CYCLE : 07 M
M INTERVAL : 02 PERIOD : 1 M
*****
M SYSTEM : HSS MAIN STEAM SYSTEM - 001 M
M ISOMETRIC NUMBER : ISI-0412-C SHEET : 06 M
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
47B2401-06	MSHUB-2	F-A F1.30C	R00000302			VT-3	19941019	PASS	YES			
47B2401-06-IA	IWA	D-B D2.30	R00000299			VT-3	19941019	PASS	YES			
47B2401-17-IA	IWA	D-B D2.30	R00000300			VT-3	19941019	PASS	YES			
47B2401-19-IA	IWA	D-B D2.40	R00000301			VT-3	19941019	PASS	YES			

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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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00141



1952

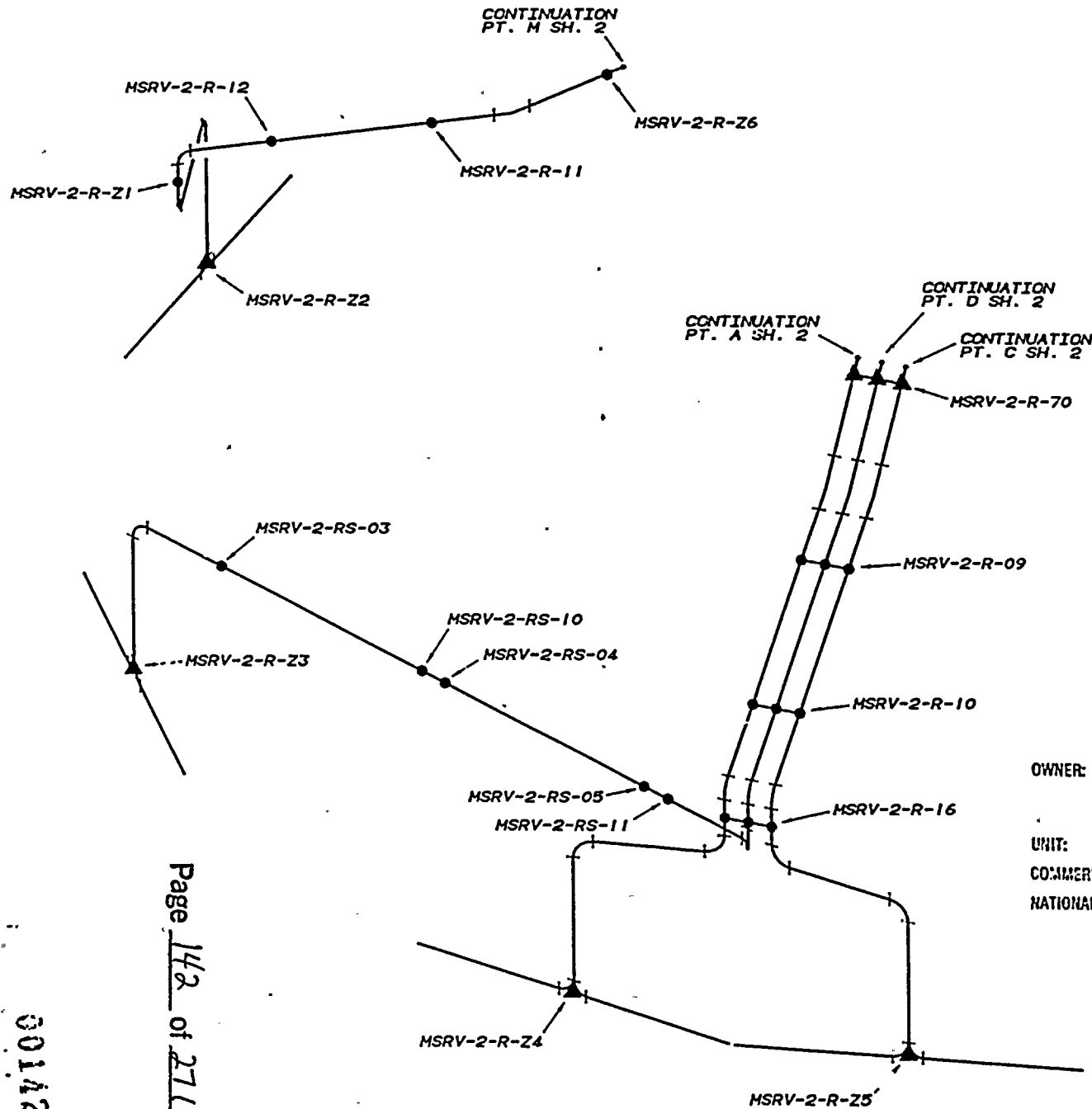
1952

REFERENCE DRAWINGS  
47W401 SERIES

LEGEND

- RIGID SUPPORT
- ▲ ANCHOR

ASME CC-3 (EQUIVALENT)



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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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00142

REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 2 MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORT LOCATIONS					
DRAWN: PWB	DATE: 7/1/92	SCALE: NTS	CONV: 1/100		
CHECKED: J.S.Z.	APPROVED: [Signature]	SHEET 03 OF 09	REV		
SUBMITTED: JFS	[Signature]	ISI-0412-C00			

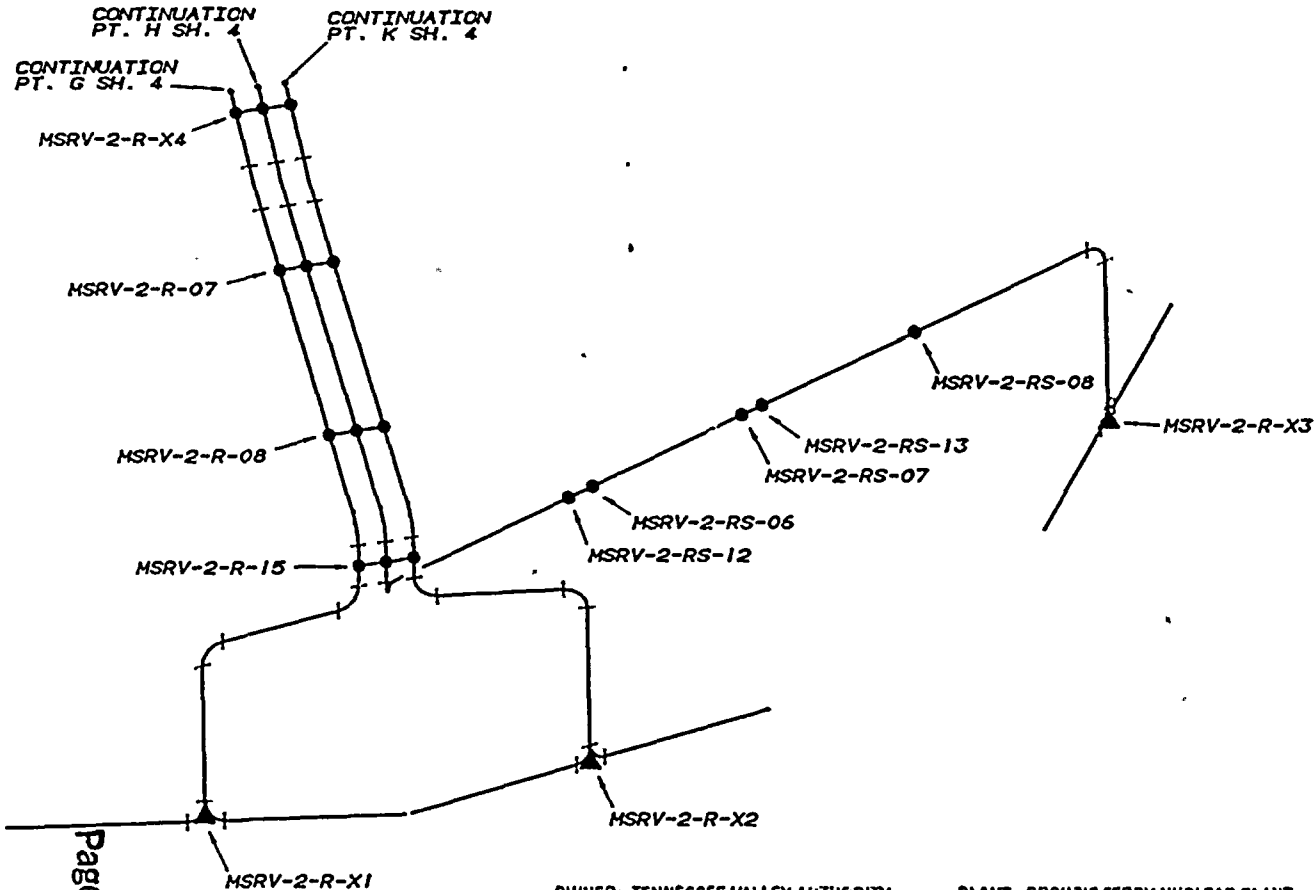
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REFERENCE DRAWINGS  
47N401 SERIES

LEGEND

- RIGID SUPPORT
- ▲ ANCHOR

ASME CC-3 (EQUIVALENT)



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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 2 MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORT LOCATIONS					
DRAWN: MB	DATE: 7/1/92	SCALE: NTS	LOADING/STOP		
CHECKED: LRS	APPROVED:	SHEET 05 OF 09	REV		
SUBMITTED: JES		ISI-0412-C00			

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00143



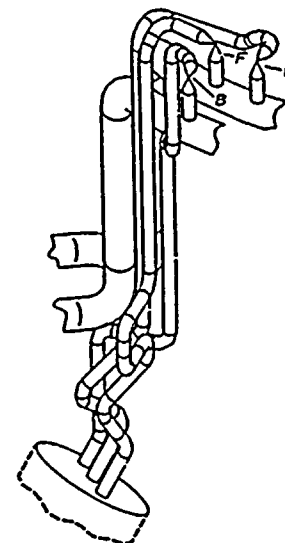
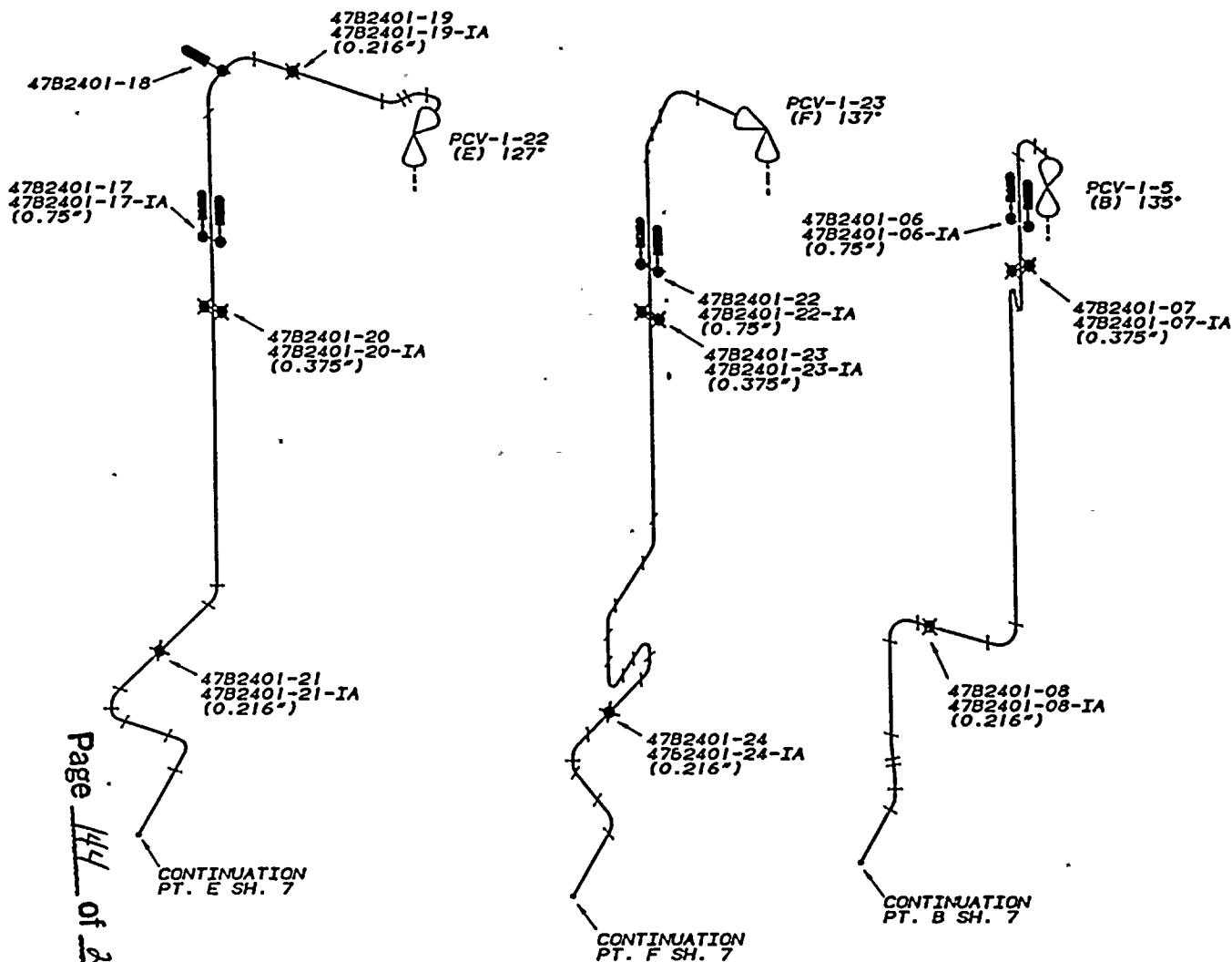
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REFERENCE DRAWINGS  
47W401 SERIES

LEGEND

- ✕ VARIABLE SUPPORT
- MECHANICAL SNUBBER

ASME CC-3 (EQUIVALENT)



TO TORUS

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CONTINUATION  
PT. E SH. 7

CONTINUATION  
PT. F SH. 7

CONTINUATION  
PT. B SH. 7

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
P.O. BOX 3000  
DECATUR, ALABAMA 35602

UNIT: TWO      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
COMMERCIAL SERVICE DATE: MARCH 1, 1975  
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 2 MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORT LOCATIONS					
DRAWN: PWB	DATE: 7/1/72	SCALE: NTS	CADW/ISTOP		
CHECKED: [Signature]	APPROVED: [Signature]	SHEET 06 OF 09		REV	
SUBMITTED: [Signature]		ISI-0412-C00			

0014A





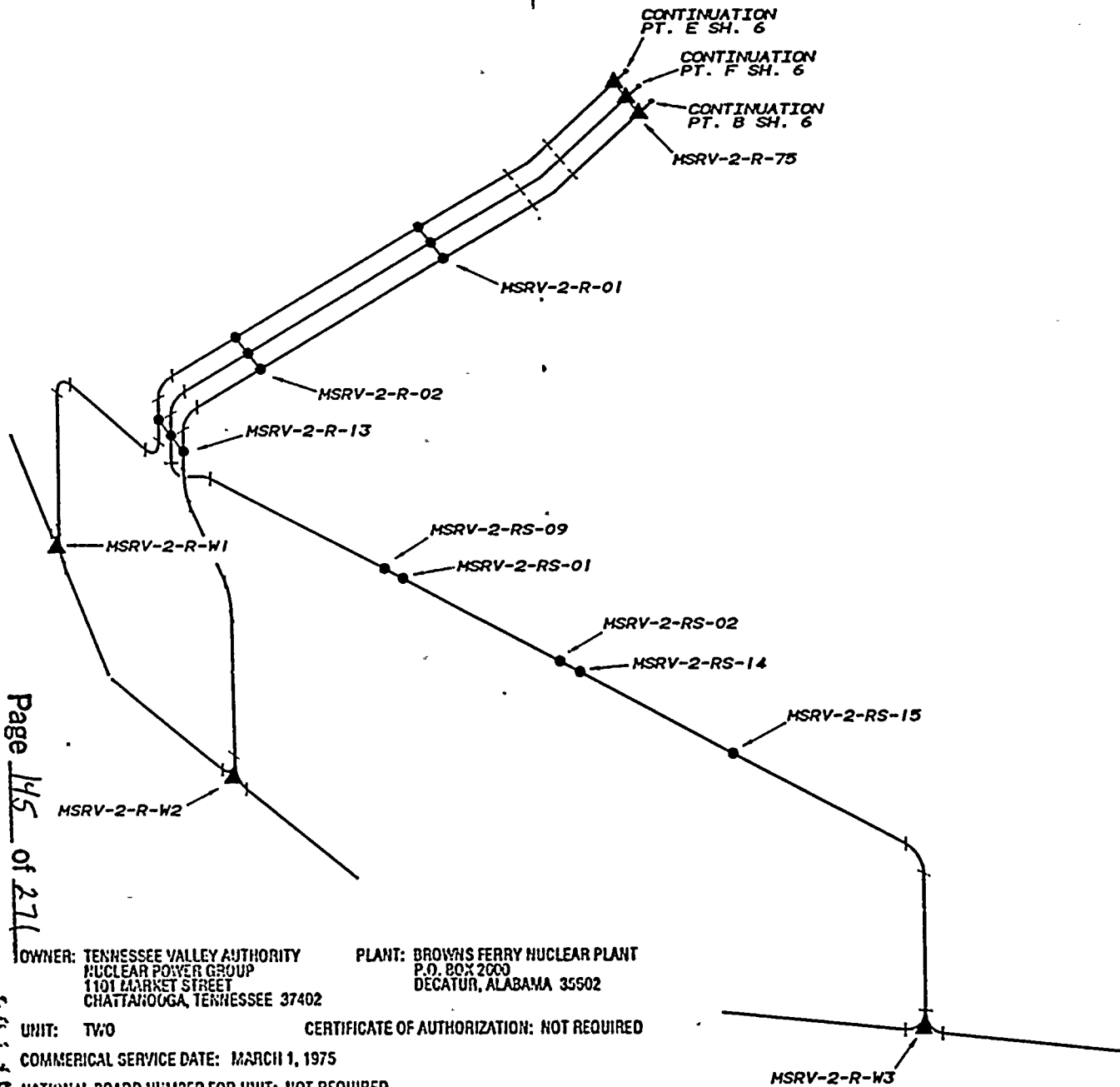
11 31 5

REFERENCE DRAW. JS  
47W401 SERIES

LEGEND

- RIGID SUPPORT
- ▲ ANCHOR

ASME CC-3 (EQUIVALENT)



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

PLANT: BROWNS FERRY NUCLEAR PLANT  
P.O. BOX 2000  
DECATUR, ALABAMA 35502

UNIT: TW0 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
COMMERCIAL SERVICE DATE: MARCH 1, 1975  
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 2 MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORT LOCATIONS					
DRAWN: PHS	DATE: 7/11/72	SCALE: NTS	CADW/ISIDP		
CHECKED: PHS	APPROVED: [Signature]	SHEET 07 OF 09		REV	
SUBMITTED: PHS		ISI-0412-C00			



11-22-64

11-22-64

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M NUTECH TENNESSEE VALLEY AUTHORITY PRISIM
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
M ISI DATA BASE
M POST OUTAGE EXAMINATION RESULTS REPORT
M EXAM REQUIREMENT : 86E-02 CYCLE : 07
M INTERVAL : 02 PERIOD : 1
M
M SYSTEM : HSS MAIN STEAM SYSTEM - 001
M ISOHETRIC NUMBER : ISI-0412-C SHEET : 07
M
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
MSRV-2-R-75	RIGHCR3	F-A F1.30B	R00000395			VT-3	19941024	PASS	YES			

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISIM
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
M ISI DATA BASE
M POST OUTAGE EXAMINATION RESULTS REPORT
M EXAM REQUIREMENT : 86E-02 CYCLE : 07
M INTERVAL : 02 PERIOD : 1
M
M SYSTEM : HSS MAIN STEAM SYSTEM - 001
M ISOHETRIC NUMBER : ISI-0412-C SHEET : 08
M
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
48H1016-5	RIG HCR	F-A F1.30A	R00000303			VT-3	19941019	PASS	YES			

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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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00148

10-10-1964

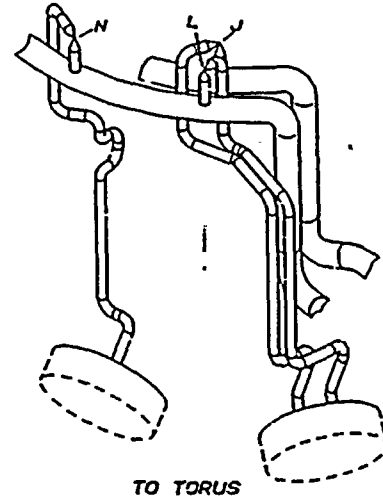
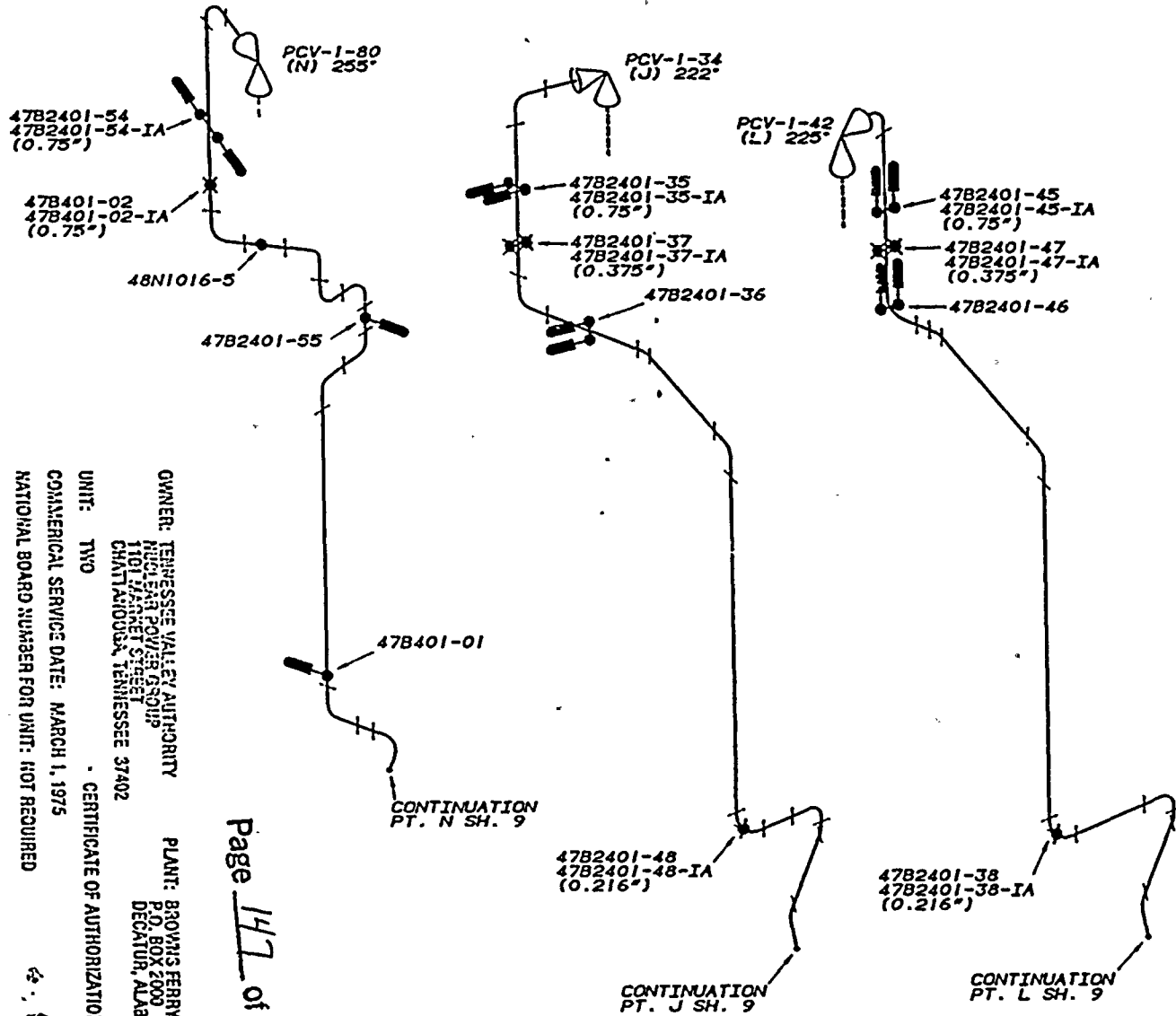
10-10-1964

REFERENCE DRAWINGS  
47W401 SERIES3

LEGEND

- RIGID SUPPORT
- ✕ VARIABLE SUPPORT
- MECHANICAL SNUBBER

ASME CC-3 (EQUIVALENT)



OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER DIVISION  
 1101 JARVIS STREET  
 CHATTANOOGA, TENNESSEE 37402

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

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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CONTINUATION  
PT. N SH. 9

CONTINUATION  
PT. J SH. 9

CONTINUATION  
PT. L SH. 9

REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 2 MAINSTREAM RELIEF VALVE SYSTEM VENT PIPING SUPPORT LOCATIONS					
DRAWN	MS	DATE	7/1/92	SCALE	NTS
CHECKED	AVB	APPROVED		SHEET	08 OF 09
SUBMITTED	085			REV	ISI-0412-C00



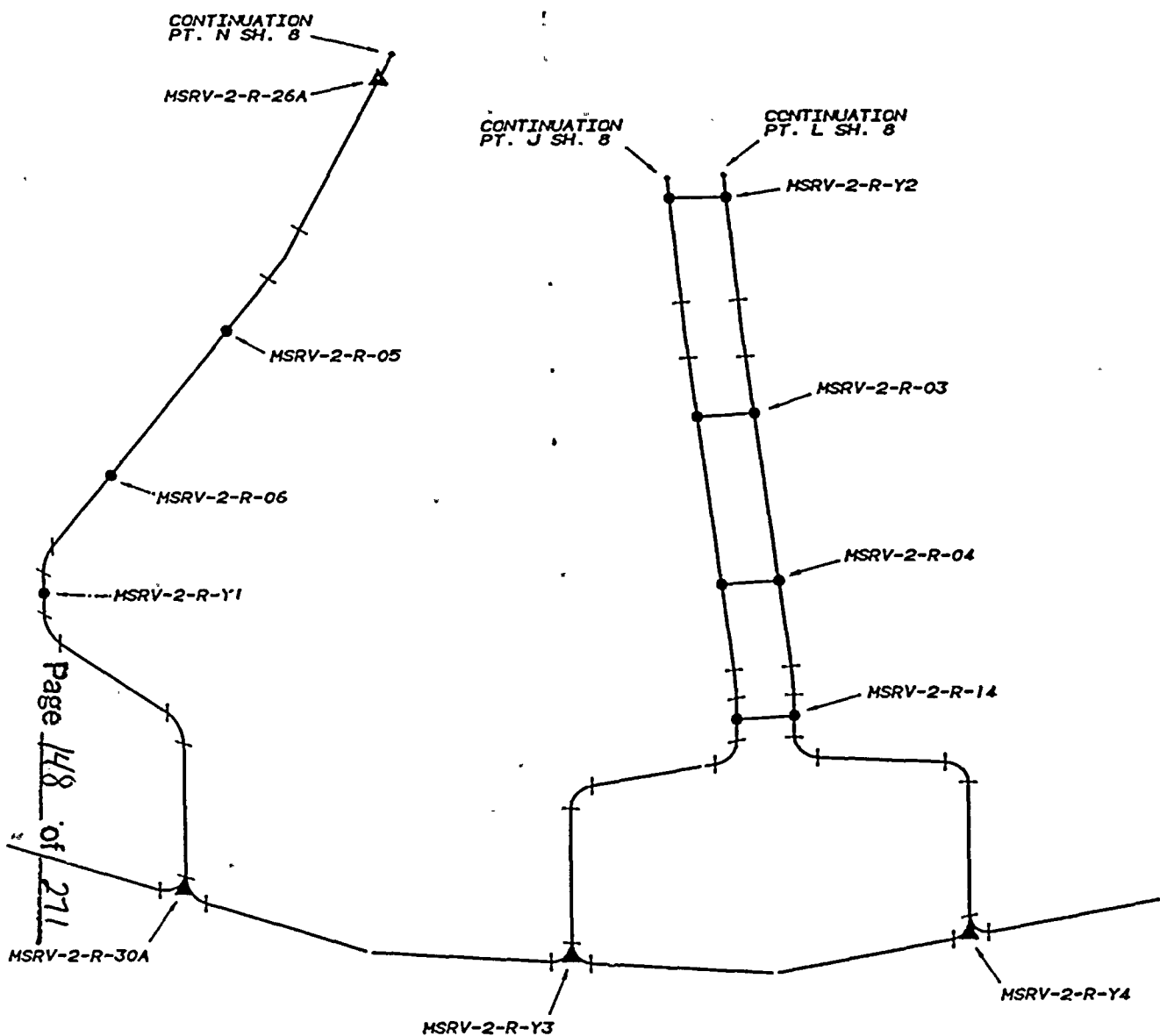
10-10-60

10-10-60

REFERENCE DRAWINGS  
47W401 SERIES

LEGEND  
● RIGID SUPPORT  
▲ ANCHOR

ASME CC-3 (EQUIVALENT)



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00148

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

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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

REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 2					
MAIN STEAM RELIEF VALVE SYSTEM VENT PIPING SUPPORT LOCATIONS					
DRAWN:	PHB	DATE	7/1/92	SCALE:	NIS
CHECKED:	PHB	APPROVED:	PHB	SHEET 09 OF 09	
SUBMITTED:	PHB			ISI-0412-C00	





11-11-60

11-11-60

11-11-60

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : HSS MAIN STEAM SYSTEM - 001  
 ISOMETRIC NUMBER : ISI-0412-C SHEET : 09  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
MSRV-2-R-26A	ANCHOR	F-A F1.30B	R00000397			VT-3	19941024	PASS	YES			

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  
 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : HSS MAIN STEAM SYSTEM - 001  
 ISOMETRIC NUMBER : HSG-0021-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DHS-2-03	PIPE -ELBOW	C-F-2 CS.51	R00000342 R00000422	C00000306	BF-108	HT UT-45	19941021 19941025	PASS PASS	YES			
DHS-2-15	PIPE -ELBOW	C-F-2 CS.51	R00000341 R00000423	C00000306	BF-108	HT UT-45	19941021 19941025	FAIL PASS	YES		SURF. LINEAR IND. RHVD. GEOMETRIC NON-RELEVANT	
DHS-2-20	PIPE -REDUCER	C-F-2 CS.51	R00000366 R00000436 R00000436 R00000436 R00000436 R00000436 R00000436	C00000322 C00000323 C00000324 C00000325 C00000326 C00000320	BF-97	HT UT-SIZ UT-SIZ UT-SIZ UT-SIZ UT-SIZ BF-97 BF-97 UT-45	19941022 19941028 19941028 19941028 19941028 19941028 19941028 19941025	PASS PASS PASS PASS PASS PASS PASS PASS	YES		GEOMETRIC NON-RELEVANT GEOMETRIC NON-RELEVANT GEOMETRIC NON-RELEVANT GEOMETRIC NON-RELEVANT GEOMETRIC NON-RELEVANT GEOMETRIC NON-RELEVANT GEOMETRIC NON-RELEVANT GEOMETRIC NON-RELEVANT GEOMETRIC NON-RELEVANT GEOMETRIC NON-RELEVANT GEOMETRIC NON-RELEVANT	
			R00000436	C00000321	BF-97	UT-60	19941025	PASS	YES			
DSHS-2-01	EX RED -PIPE	C-F-2 CS.51	R00000349 R00000431 R00000431 R00000431 R00000431	C00000314 C00000315 C00000316 C00000312		HT UT-SIZ UT-SIZ UT-SIZ BF-108 UT-45	19941022 19941027 19941027 19941027 19941025	PASS PASS PASS PASS PASS	YES			

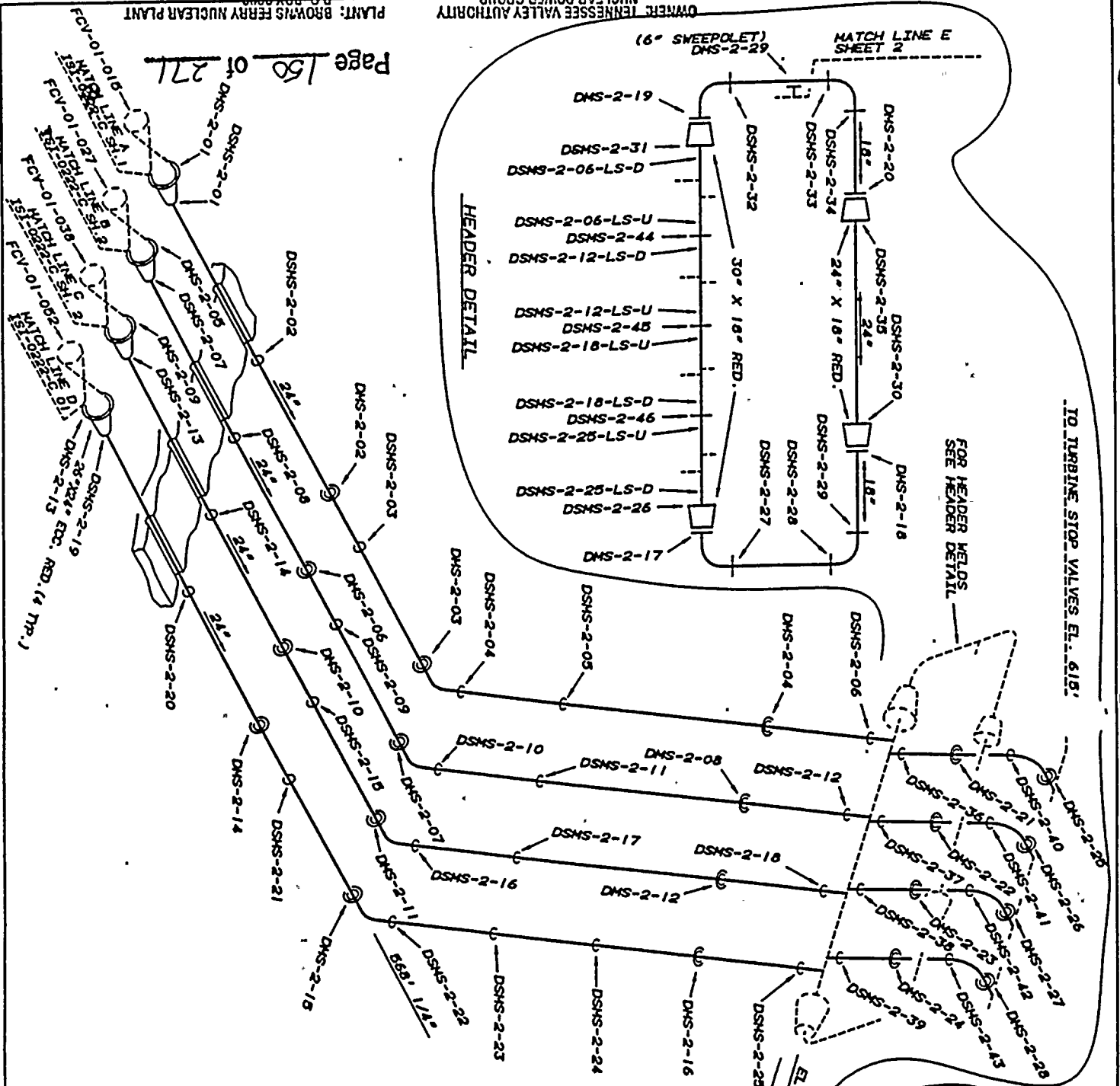


2000

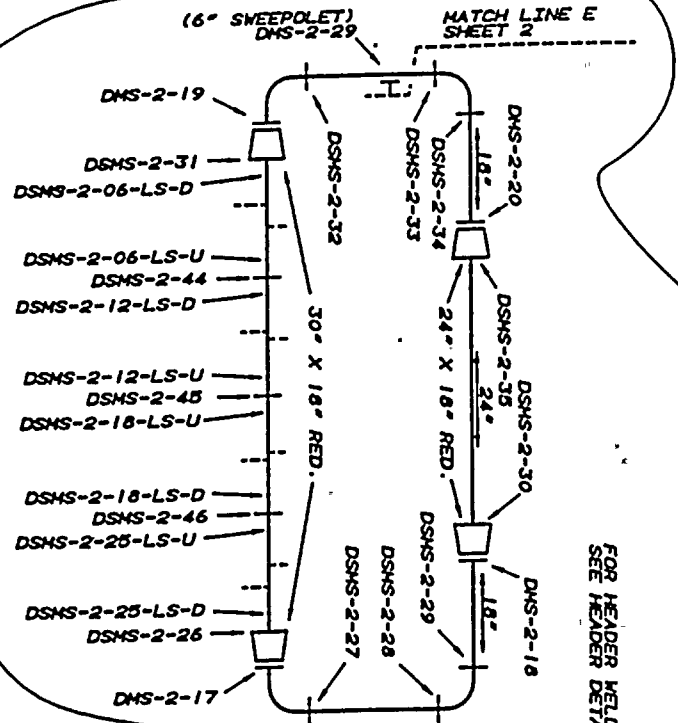
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OWNER: TENNESSEE VALLEY AUTHORITY  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402  
 PLANT: BROWN'S FERRY NUCLEAR PLANT  
 P.O. BOX 2000  
 DECATUR, ALABAMA 35602

Page 150 of 271



**HEADER DETAIL**



TO TURBINE STOP VALVES EL. 618'

FOR HEADER WELDS  
 SEE HEADER DETAIL

**REFERENCE DRAWINGS**

4M3306 - SERIES	
4M4001 - SERIES	
DE P439D59376 (CONT.)	3-91062)
DRAWO 550037 (SH. 1) SUPPORT MAP	
151-00790-C	

**MATERIAL SPECIFICATIONS:**

A-106-B	25.25" O.D. X 1.625" NOM WALL. CS
1A58K670	25.25" O.D. X 1.625" NOM WALL. CS
18"	24" X 1.219" NOM. WALL THK. SCH. 80
16"	24" X 2.5" NOM. WALL THK. CS
A-234 MPB	18" X 0.938" NOM WALL THK. SCH. 80
26"	26" X 1.219" NOM. WALL THK. SCH. 80

ASME CC-2 (EQUIVALENT)

**CONTROLLED**

4	MPB	605	1/25	3/11/75
1	MPB	605	1/25	3/11/75
2	MPB	605	1/25	3/11/75
3	MPB	605	1/25	3/11/75
5	MPB	605	1/25	3/11/75
6	MPB	605	1/25	3/11/75
7	MPB	605	1/25	3/11/75
8	MPB	605	1/25	3/11/75
9	MPB	605	1/25	3/11/75
10	MPB	605	1/25	3/11/75
11	MPB	605	1/25	3/11/75
12	MPB	605	1/25	3/11/75
13	MPB	605	1/25	3/11/75
14	MPB	605	1/25	3/11/75
15	MPB	605	1/25	3/11/75
16	MPB	605	1/25	3/11/75
17	MPB	605	1/25	3/11/75
18	MPB	605	1/25	3/11/75
19	MPB	605	1/25	3/11/75
20	MPB	605	1/25	3/11/75
21	MPB	605	1/25	3/11/75
22	MPB	605	1/25	3/11/75
23	MPB	605	1/25	3/11/75
24	MPB	605	1/25	3/11/75
25	MPB	605	1/25	3/11/75
26	MPB	605	1/25	3/11/75
27	MPB	605	1/25	3/11/75
28	MPB	605	1/25	3/11/75
29	MPB	605	1/25	3/11/75
30	MPB	605	1/25	3/11/75
31	MPB	605	1/25	3/11/75
32	MPB	605	1/25	3/11/75
33	MPB	605	1/25	3/11/75
34	MPB	605	1/25	3/11/75
35	MPB	605	1/25	3/11/75
36	MPB	605	1/25	3/11/75
37	MPB	605	1/25	3/11/75
38	MPB	605	1/25	3/11/75
39	MPB	605	1/25	3/11/75
40	MPB	605	1/25	3/11/75
41	MPB	605	1/25	3/11/75
42	MPB	605	1/25	3/11/75
43	MPB	605	1/25	3/11/75
44	MPB	605	1/25	3/11/75
45	MPB	605	1/25	3/11/75
46	MPB	605	1/25	3/11/75
47	MPB	605	1/25	3/11/75
48	MPB	605	1/25	3/11/75
49	MPB	605	1/25	3/11/75
50	MPB	605	1/25	3/11/75
51	MPB	605	1/25	3/11/75
52	MPB	605	1/25	3/11/75
53	MPB	605	1/25	3/11/75
54	MPB	605	1/25	3/11/75
55	MPB	605	1/25	3/11/75
56	MPB	605	1/25	3/11/75
57	MPB	605	1/25	3/11/75
58	MPB	605	1/25	3/11/75
59	MPB	605	1/25	3/11/75
60	MPB	605	1/25	3/11/75
61	MPB	605	1/25	3/11/75
62	MPB	605	1/25	3/11/75
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65	MPB	605	1/25	3/11/75
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91	MPB	605	1/25	3/11/75
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93	MPB	605	1/25	3/11/75
94	MPB	605	1/25	3/11/75
95	MPB	605	1/25	3/11/75
96	MPB	605	1/25	3/11/75
97	MPB	605	1/25	3/11/75
98	MPB	605	1/25	3/11/75
99	MPB	605	1/25	3/11/75
100	MPB	605	1/25	3/11/75

**BROWN'S FERRY NUCLEAR PLANT**  
 MAIN STEAM SYSTEM  
 WELD LOCATIONS



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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : HSS MAIN STEAM SYSTEM - 001  
 ISOMETRIC NUMBER : HSG-0021-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT	INDICATION TYPE	INDICATION RESOLUTION
DSHS-2-01	EX RED -PIPE	C-F-2 CS.51	R00000431	C00000313	BF-108	UT-60	19941025	PASS	YES	GEOMETRIC	NON-RELEVANT
DSHS-2-26	REDUCER -HEADER	C-F-2 CS.51	R00000417 R00000427	C00000310	BF-102	UT-45	19941025	PASS	YES	GEOMETRIC	NON-RELEVANT
DSHS-2-27	PIPE -ELBOW	C-F-2 CS.51	R00000334 R00000426	C00000309	BF-97	UT-45	19941022 19941024	PASS	YES	GEOMETRIC	NON-RELEVANT
DSHS-2-45	HEADER -HEADER	C-F-2 CS.51	R00000414 R00000428	C00000311	BF-102	UT-45	19941025	PASS	YES		

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : HSS MAIN STEAM SYSTEM - 001  
 ISOMETRIC NUMBER : HSG-0021-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT	INDICATION TYPE	INDICATION RESOLUTION
DAS-2-03	PIPE -ELBOW	C-F-2 CS.51	R00000333 R00000330	C00000241	BF-34	HT UT-45	19941020 19941021	PASS	YES	GEOMETRIC	NON-RELEVANT
DAS-2-06	ELBOW -PIPE	C-F-2 CS.51	R00000332 R00000329	C00000241	BF-34	HT UT-45	19941020 19941021	PASS	YES	GEOMETRIC	NON-RELEVANT
DSAS-2-15	PIPE -REDUCER	C-F-2 CS.51	R00000364 R00000359	C00000263	BF-34	HT UT-45	19941021 19941022	PASS	YES	GEOMETRIC	NON-RELEVANT

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  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

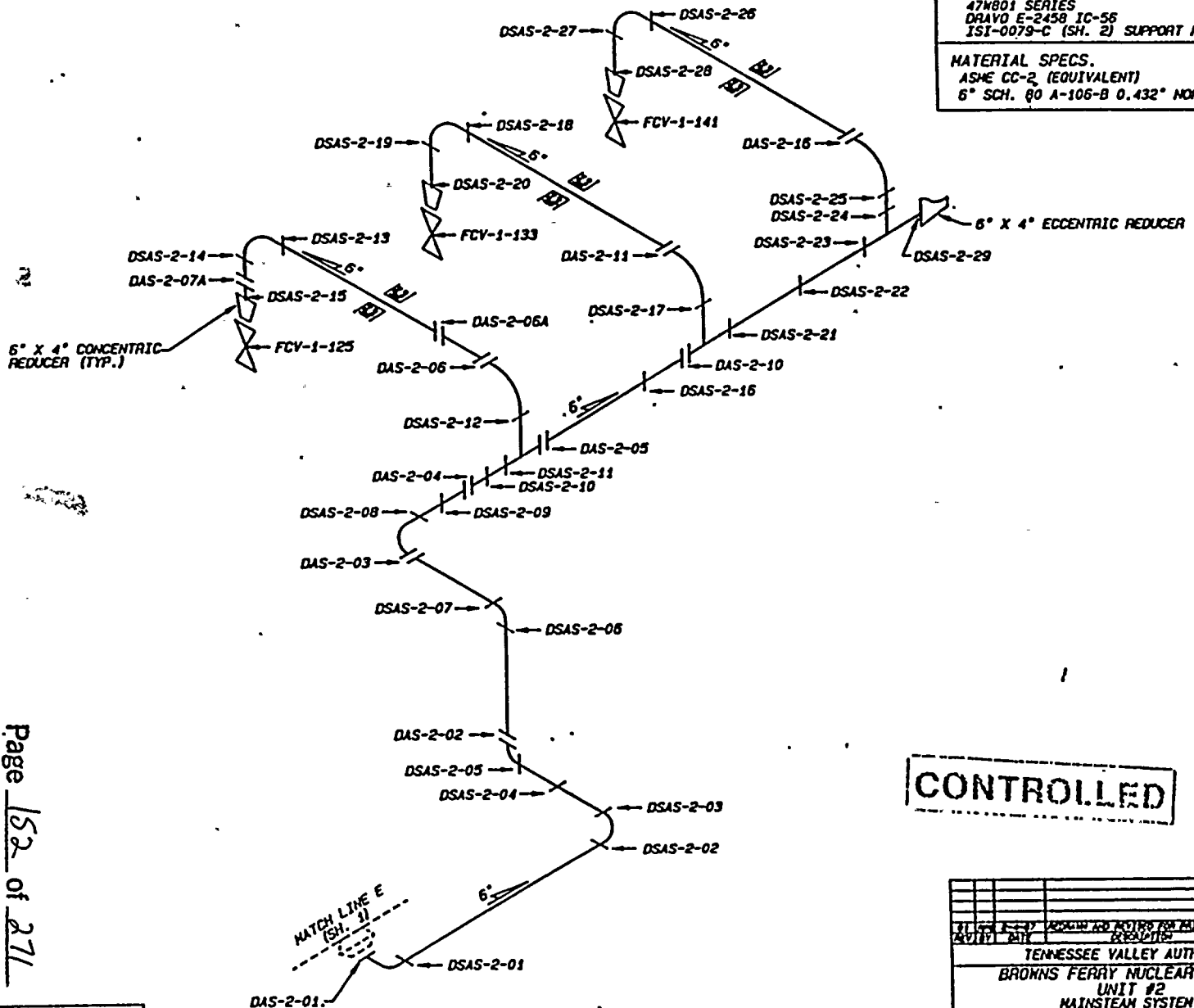
00151

1954  
1955

20190 ..

REFERENCE DRAWINGS  
 47W400 SH. 1 & 5  
 47W801 SERIES  
 DRAWG E-2459 IC-56  
 ISI-0079-C (SH. 2) SUPPORT MAP

MATERIAL SPECS.  
 ASME CC-2, (EQUIVALENT)  
 6" SCH. 80 A-106-B 0.432" NOM. WALL THK.



**CONTROLLED**

DATE	BY	APPROVED AND AUTHORIZED FOR ISSUANCE	DATE	BY
TENNESSEE VALLEY AUTHORITY				
BRONNS FERRY NUCLEAR PLANT				
UNIT #2				
MAINSTEAM SYSTEM				
WELD LOCATIONS				
DATE	BY	APPROVED	DATE	BY
# HSG-0021-C 101				

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

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

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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

Page 152 of 271

REV	01		
DATE			
BY			

00152





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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RCICS REACTOR CORE ISOLATION COOLING SYSTEM - 071  
 ISOMETRIC NUMBER : ISI-0129-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
TRCIC-2-043	PIPE -ELBOW	C-F-2 C5.51	R00000060			HT	19940525	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000070	C00000003	BF-91	UT-45	19940526	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000070	C00000004	BF-91	UT-60	19940526	PASS	YES		GEOMETRIC	NON-RELEVANT
TRCIC-2-044	ELBOW -PIPE	C-F-2 C5.51	R00000061			HT	19940525	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000071	C00000005	BF-91	UT-45	19940602	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000071	C00000006	BF-91	UT-60	19940602	PASS	YES		GEOMETRIC	NON-RELEVANT
TRCIC-2-045	PUMP -ELBOW	C-F-2 C5.51	R00000059			HT	19940525	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000072	C00000007	BF-91	UT-45	19940601	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000072	C00000008	BF-91	UT-60	19940601	PASS	YES		GEOMETRIC	NON-RELEVANT

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RCWS RAW COOLING WATER SYSTEM - 024  
 ISOMETRIC NUMBER : ISI-0391-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
1-47B451S0228	R STRUT	F-A F1.30A	R00000030			VT-3	19940421	PASS	YES			
1-47B451S0356	RIG HGR	F-A F1.30B	R00000031			VT-3	19940421	PASS	YES			
1-47B451S0356-IA	IWA	D-B D2.20	R00000031			VT-3	19940421	PASS	YES			

Page 153 of 271

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00153

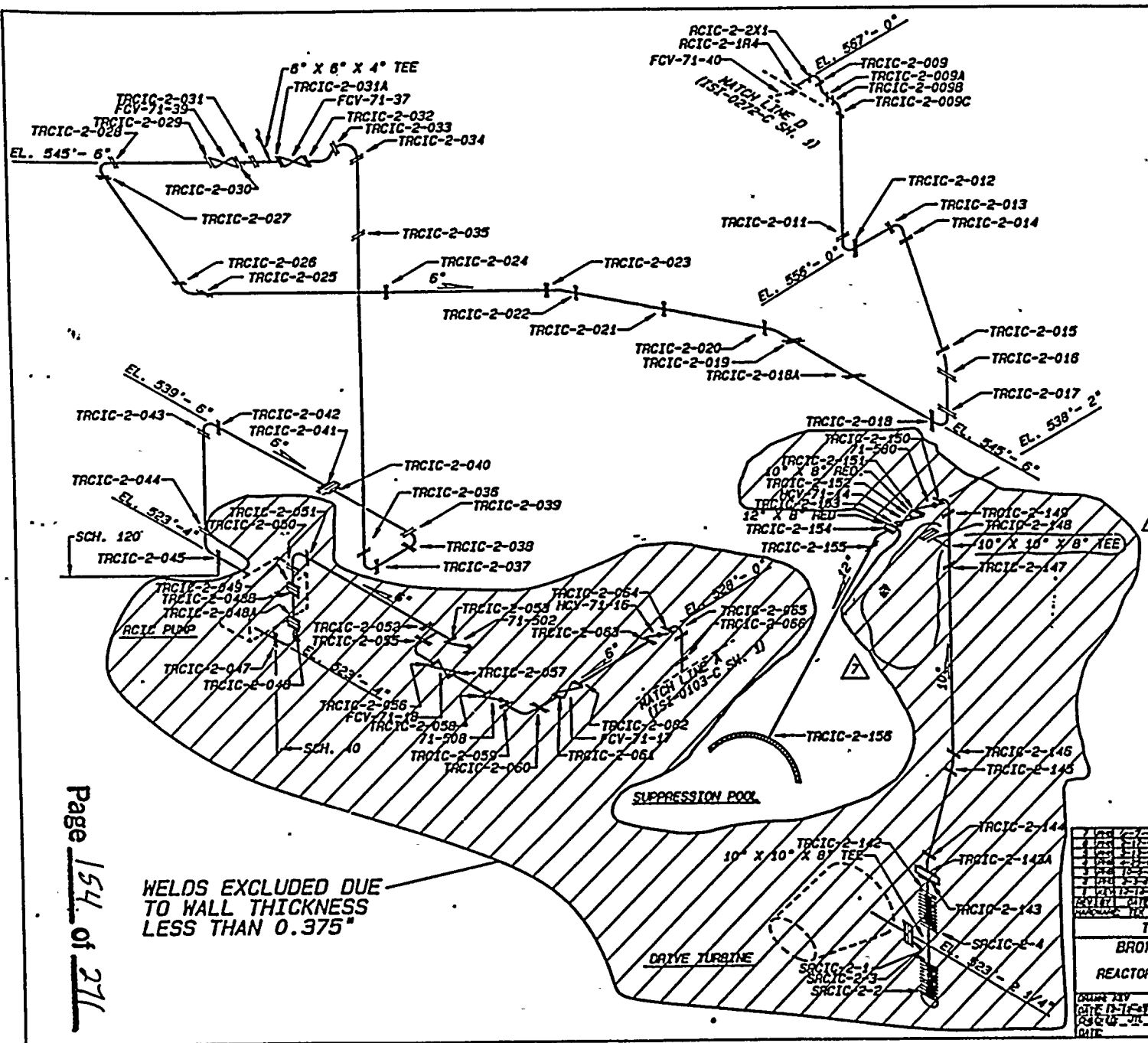


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REFERENCE DRAWINGS  
 47N335-16  
 47N335-17  
 ISI-0131-C (SH: 1) SUPPORTS  
 MATERIAL SPECIFICATIONS  
 CARBON STEEL  
 12" STD. (.375)  
 10" SCH 40 (.365)  
 8" SCH 40 (.322)  
 6" SCH 120 (.562)  
 6" SCH 40 (.280)  
 ASME CC-2 (EQUIVALENT)



WELDS EXCLUDED DUE TO WALL THICKNESS LESS THAN 0.375"

Page 154 of 271

DATE	BY	DESCRIPTION	SCALE	APP. NO.
1971-03-10	EDC	ISSUED FOR CONSTRUCTION	AS SHOWN	1
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	2
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	3
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	4
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	5
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	6
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	7
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	8
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	9
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	10

TENNESSEE VALLEY AUTHORITY  
 BRONNS FERRY NUCLEAR PLANT  
 UNIT 2  
 REACTOR CORE ISOLATION COOLING SYSTEM  
 WELD LOCATIONS

DATE	BY	DESCRIPTION	SCALE	APP. NO.
1971-03-10	EDC	ISSUED FOR CONSTRUCTION	AS SHOWN	1
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	2
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	3
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	4
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	5
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	6
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	7
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	8
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	9
1971-03-10	EDC	REVISION: WELD LOCATION CHANGES	AS SHOWN	10

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

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

UNIT: TWO

COMMERCIAL SERVICE DATE: MARCH 1, 1975

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00154

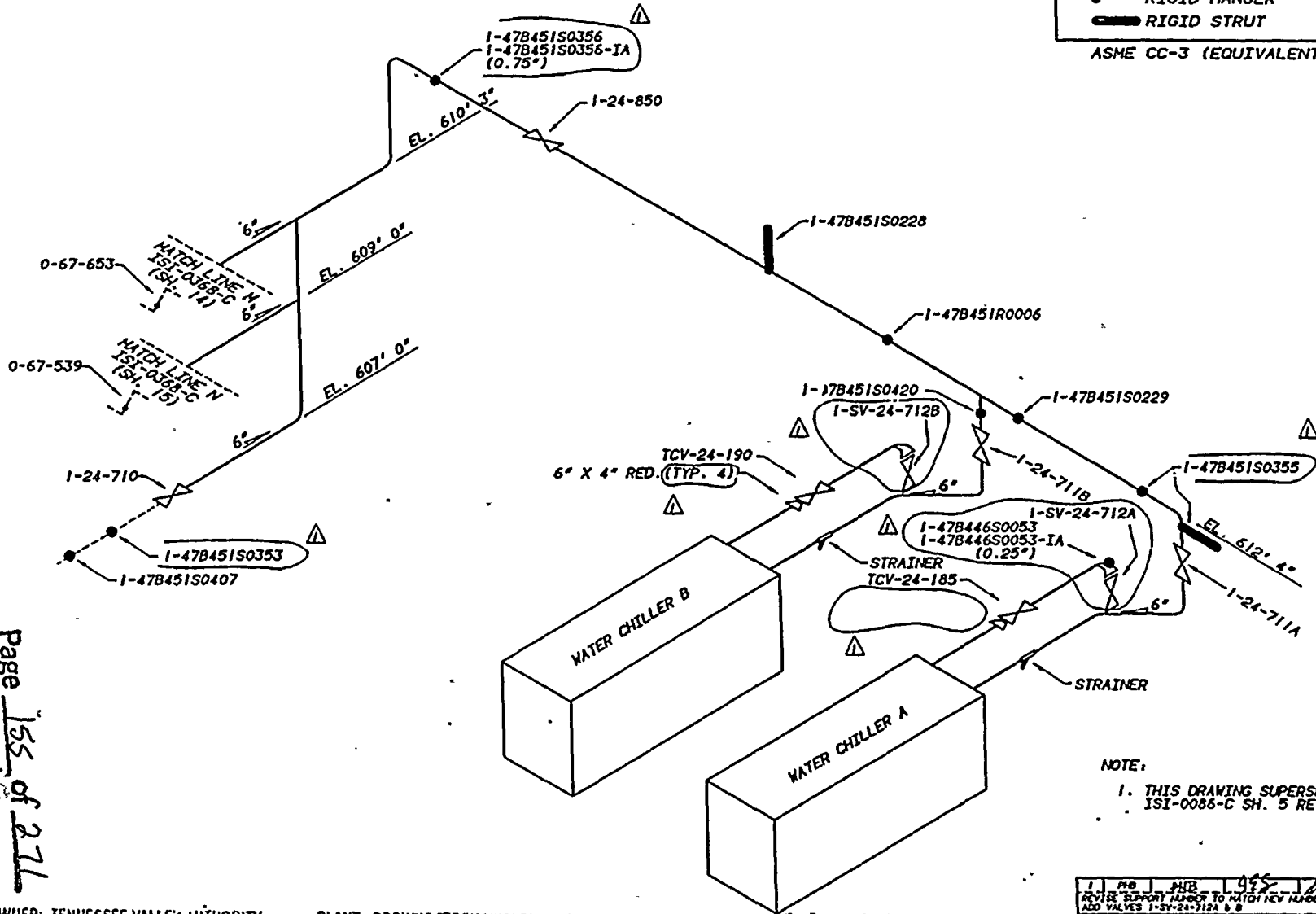
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10100 .

REFERENCE DRAWINGS  
47W935 SERIES  
47W451-202 R1

LEGEND

- RIGID HANGER
  - RIGID STRUT
- ASME CC-3 (EQUIVALENT)



NOTE:

1. THIS DRAWING SUPERSEDES  
ISI-0086-C SH. 5 REV. 1

Page 155 of 271

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

UNIT: TWO      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

CONTROLLED

1	PHB	PHB	495	11/10	6.3.72
REVISE SUPPORT NUMBER TO MATCH NEW NUMBER FROM ENGINEERING ADD VALVES 1-SV-24-712A & B					
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
HARDWARE: IBM 5063		SOFTWARE: CADAM		USER: ISTOP.	
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 1 RAW COOLING WATER SYSTEM SUPPORT LOCATIONS					
DRAWN: PHB	DATE: 4-28-71	CHECKED: JAA	DATE: 4-28-71	APPROVED: JES	DATE: 4-28-71
SUBMITTED		APPROVED		SCALE NTS	
DATE: 4-28-71		DATE: 4-28-71		SHEET 1 OF 1 SET	
DRAWING NO.		DRAWING NO.		REV.	
ISI-0391-C		01		01	



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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOHERTRIC NUMBER : ISI-0270-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
GR-2-25	PIPE -VALVE	B-J B9.11	R00000324	C00000274	BF-44	PT	19941013	FAIL	YES		SURF, LINEAR IND. RHVD.	
			R00000368	C00000275	BF-44	UT-SIZ	19941024	PASS	YES			
			R00000368	C00000276	BF-44	UT-SIZ	19941024	PASS	YES			
			R00000368	C00000277	BF-82	UT-SIZ	19941024	PASS	YES			
			R00000368	C00000278	BF-44	UT-SIZ	19941024	PASS	YES			
			R00000368	C00000279	BF-44	UT-SIZ	19941024	PASS	YES			
			R00000368	C00000272	BF-57	UT-45	19941019	PASS	YES			
			R00000368	C00000273	BF-57	UT-60L	19941019	PASS	YES			GEOMETRIC NON-RELEVANT
KR-2-01	PIPE -BR CONN	B-J B9.31	R00000125	C00000110	BF-59	PT	19941005	PASS	YES			
			R00000195	C00000111	BF-59	UT-30	19941005	PASS	YES	IS12-4	GEOMETRIC	NON-RELEVANT
			R00000195	C00000112	BF-59	UT-45	19941006	PASS	YES	IS12-4		
			R00000195	C00000112	BF-59	UT-45L	19941005	PASS	YES	IS12-4		
KR-2-13	PIPE -BR CONN	B-J B9.31	R00000158	C00000102	BF-88	PT	19941009	PASS	YES			
			R00000184	C00000102	BF-88	UT-45	19941009	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000184	C00000103	BF-88	UT-60L	19941009	PASS	YES		GEOMETRIC	NON-RELEVANT

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOHERTRIC NUMBER : ISI-0270-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
KR-2-25	PIPE -TEE	B-J B9.11	R00000233	C00000163	BF-90	PT	19941015	PASS	YES			
			R00000246	C00000164	BF-90	UT-45	19941016	PASS	YES			
			R00000246	C00000164	BF-90	UT-60L	19941016	PASS	YES		GEOMETRIC	NON-RELEVANT

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  
 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00156





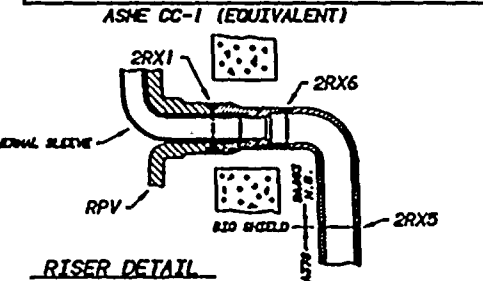
10 1970

10 1970

10 1970

REFERENCE DRAWING  
 47W2408-8,9 (S.E. A.  
 GE 769E963 (S.E. REP.  
 TVA 47K1544-2  
 GE 153F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHN-2068-C ALL SHEETS

MATERIAL SPECIFICATIONS:  
 A358, TP 304  
 4" X 0.337" NOM WALL THK. (SS)  
 12" X 0.569" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE  
 2" SCH. 80 A-376, TP304  
 2" FITTINGS A-182, F304  
 SAFE END REPLACEMENT  
 12" X 0.688 NOM. WALL THK. (SS)  
 SA 403 WP 316 N.G.



- NOTES:
1. WELDS 2RX1 ARE THE NOZZLE TO SAFE-END WELDS
  2. ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.
  3. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-1D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)  
 THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHERMOST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)
  4. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

CONTROLLED

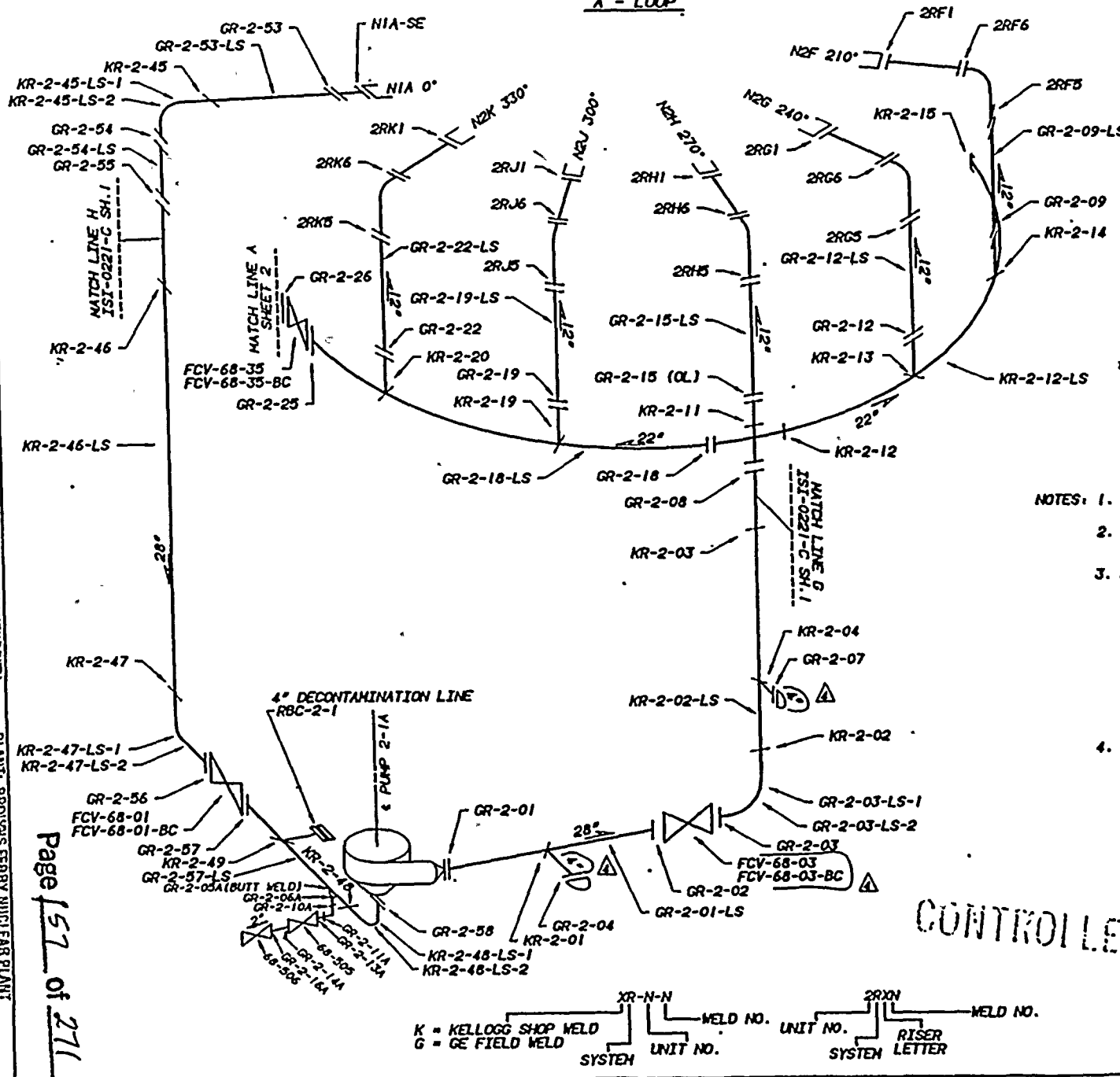
64	APR 6-5-91	DEL ONE BC NOTE FROM VALVE IDENTIFIED	070	25
63	APR 3-13-90	ADD LONGSEAM IDENTIFIER NOTES	APR	JES
62	APR 9-20-91	DEL CABLE, ADD 2" LINE, NTL. SPEC.	JAN	JES
61	APR 3-28-89	PROGRAM INTO TWO SHEETS	APR	EDC
KEY BY	DATE	DESCRIPTION	BY	DATE
MARCHAND, JIM	8-04-88	SOFTWARE, CADAM	UMER	11/20/88

TENNESSEE VALLEY AUTHORITY  
 BROWN'S FERRY NUCLEAR PLANT  
 UNIT 2  
 RECIRCULATION SYSTEM  
 WELD LOCATIONS

DRAWN BY	DATE	APPROVED	SCALE
DATE: 8-16-87	DATE: 8-16-87	DATE: 8-16-87	SCALE: 1" = 6' 0"
DESIGNED BY	DATE	EDC	CLB
DATE: 8-14-87	DATE: 8-14-87	EDC	CLB

SHEET 1 OF 2 SHEETS  
 DRAWING NO.  
 TST-0270-C

A - LOOP



K = KELLOGG SHOP WELD  
 G = GE FIELD WELD  
 SYSTEM UNIT NO. WELD NO.  
 UNIT NO. SYSTEM LETTER WELD NO.

OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402  
 PLANT: BROWN'S FERRY NUCLEAR PLANT  
 P.O. BOX 2000  
 DECATUR, ALABAMA 35602  
 UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED



1950

1951

1952

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0278-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B408S0056	CFORCE2	F-A F1.40C	R00000124			VT-3	19941005	FAIL	YES		INC SETTING	COMP RESET

REFER TO NIS-2 EXREQ R01-02  
 FOR PASS EXAM: JTL  
 1-12-95

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0278-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B408S0044	CFORCE2	F-A F1.40C	R00000123			VT-3	19941005	PASS	YES			
2-47B408S0046-IA	IWA	B-K-1 B10.20	R00000185			PT	19941011	PASS	YES			
2-47B408S0048-IA	IWA	B-K-1 B10.20	R00000186			PT	19941011	PASS	YES			

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED



**REFERENCE DRAW.**  
 47W2408-8,9 (S.E. REPLACEMENT)  
 GE 769E963 (S.E. REPLACEMENT)  
 TVA 47K1544-2  
 GE 153F784  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHM-2068-C ALL SHEETS

**MATERIAL SPECIFICATIONS:**  
 A358, TP 304  
 4" X 0.337" NOM. WALL THK. (SS)  
 12" X 0.669" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE

2" SCH. 80, A376, TP304  
 2" FITTINGS A182.F304

SAFE END REPLACEMENT  
 12" X 0.668 NOM. WALL THK. (SS)  
 SA 403 WP 316 N.G.

ASME CC-1 (EQUIVALENT)

**NOTES:**

- ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.
- PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-ID (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)  
 THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)
- PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

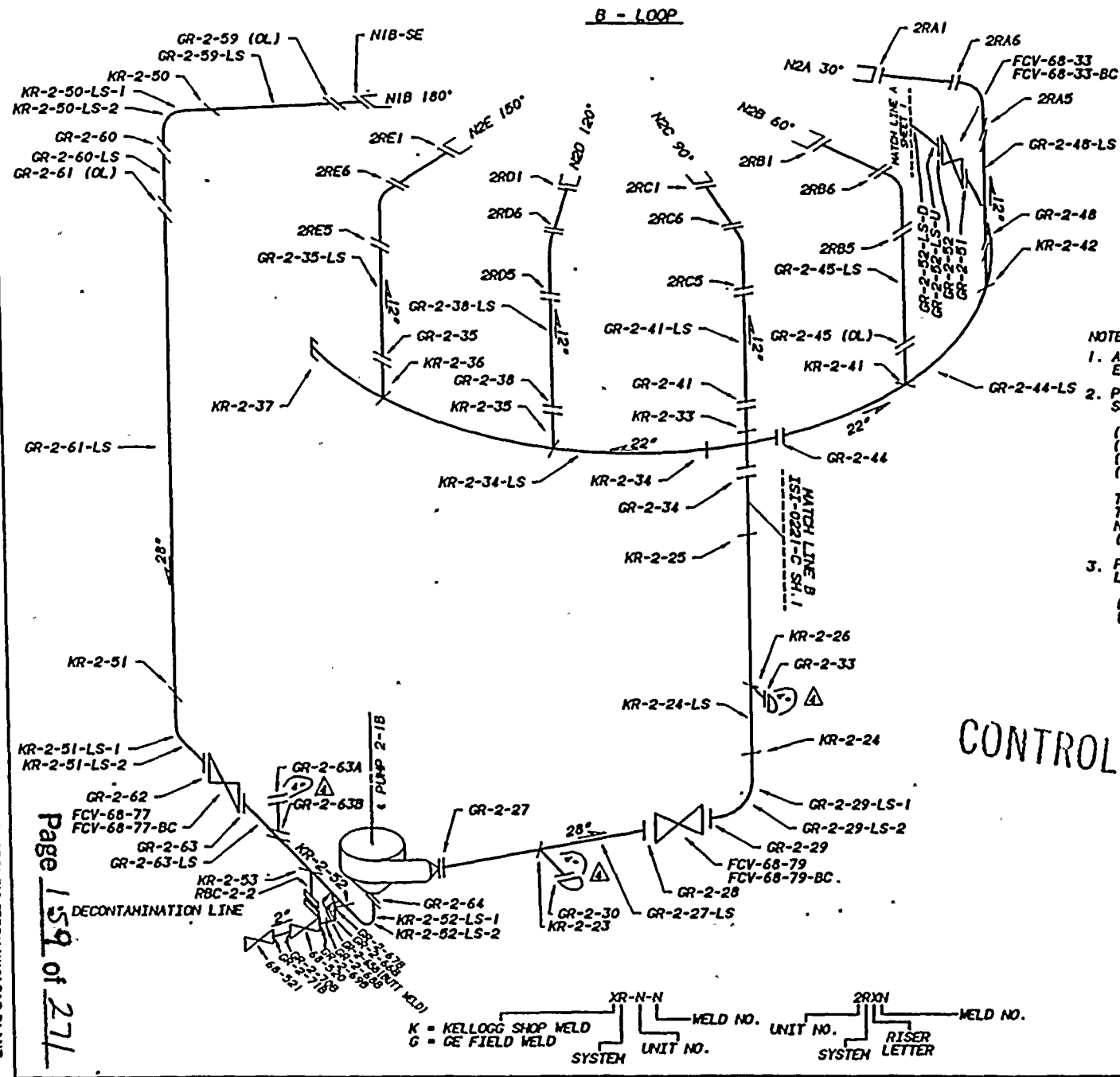
**CONTROLLED**

REV	BY	DATE	DESCRIPTION	CHK'D	APP'D
04	PH	12-1-91	ADD 4" L.D.ME SIZES		
03	PH	3-13-92	ADD LONGSEAM IDENTIFIER NOTES MODIFY LONGSEAM WELD ID'S	APG	LES
02	PH	9-20-91	DEL CADFILE, ADD 8" L.D.ME, MATL. SPEC.	JMA	LES
01	PH	11-9-89	CORRECT VALVE NO. FCV-68-79	JES	EDC
REV	BY	DATE	DESCRIPTION	CHK'D	APP'D
HARDWARE, IBM 9040		SOFTWARE, CADAM		USER, ISTOP	

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 RECIRCULATION SYSTEM  
 WELD LOCATIONS

DRAWN	FILE	DATE	SCALE	SCALE	SCALE
EDC	GLB	3-24-91	1:1	1:1	1:1

DRY: JES  
 DATE: 3-24-91  
 EDC  
 DATE: 3-24-91



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

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

Page 159 of 271

K = KELLOGG SHOP WELD  
 G = GE FIELD WELD

XR-N-N WELD NO.  
 SYSTEM UNIT NO.

2RXN WELD NO.  
 SYSTEM RISER LETTER



1970

1970

**REFERENCE DRAWINGS:**

2-47W2408-8.9 (S.E. REPI) 'NT)  
 GE 762E963 (S.E. REPLAC  
 TVA 47K1544-2  
 2-153F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHN-2068-C ALL SHEETS

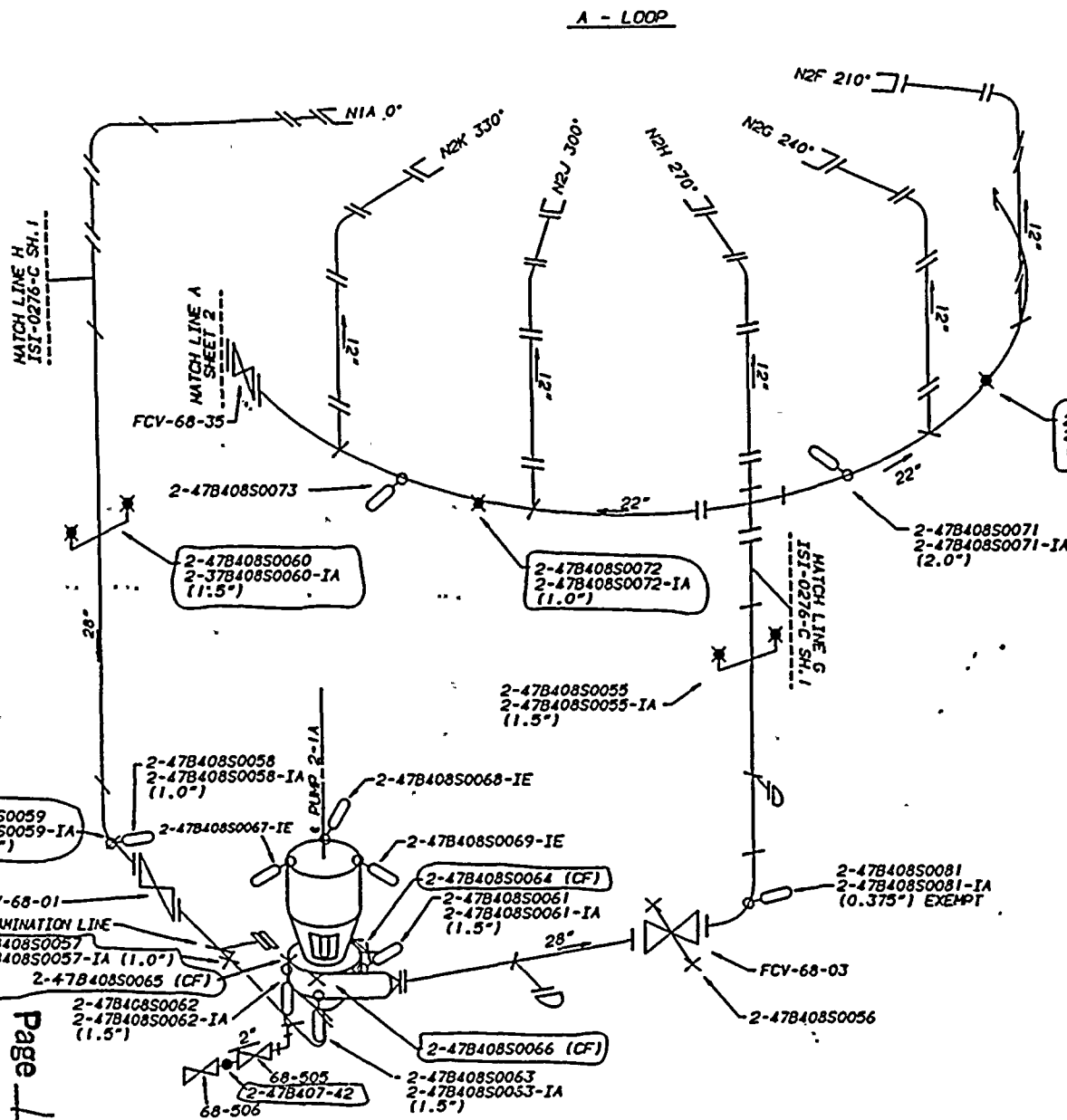
**LEGEND:**

- RIGID HANGER
- ✖ VARIABLE SUPPORT
- ○ HYDRAULIC SNUBBER
- ✖ CONSTANT FORCE SUPPORT (CF)

CALCULATION BRANCH/PROJECT IDENTIFIER:

CD-02068-871118

ASME CC-1 (EQUIVALENT)



CONTROLLED



CD/ISSI	11-10-84	MP	JE	WA	WASH	CAA	EC	TRC	WGL
ISSI	ISSUED TO CREATE CD, SUPERSEDES AND ISSI-0276-C (R&I) REVISED SUPPORT NUMBERS AND ADDED CALCULATION REFERENCE. (118) REVISION:								
REV	CHANGE REF	DATE	DRN	CHK	DES	ENR	APPD	APPD	ISSD
5									
TENNESSEE VALLEY AUTHORITY									
BROWNS FERRY NUCLEAR PLANT UNIT 2 RECIRCULATION SYSTEM SUPPORT LOCATIONS									
DRWDR	PHS	SUBMITTED	APPROVED	SCALE	NIS				
DATE	8-22-77	DATE	2-19-78	DATE	2-24-78	SHEET	1 OF 2		
CD/DRN	JCS	EDC	GLB	DRIVING NO.	DRY				
DATE	8-10-77			2-IST-0276-C	P00				
CCD									

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

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

Page 160 of 221





QUALIFICATION BRANCH/PROJECT IDENTIFIER: CD-02068-871118

REFERENCE DRAWINGS:

IYA 47K1544-2  
 GE 153F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHN-2068-C ALL SHEETS

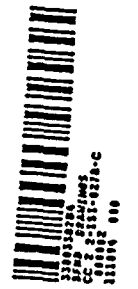
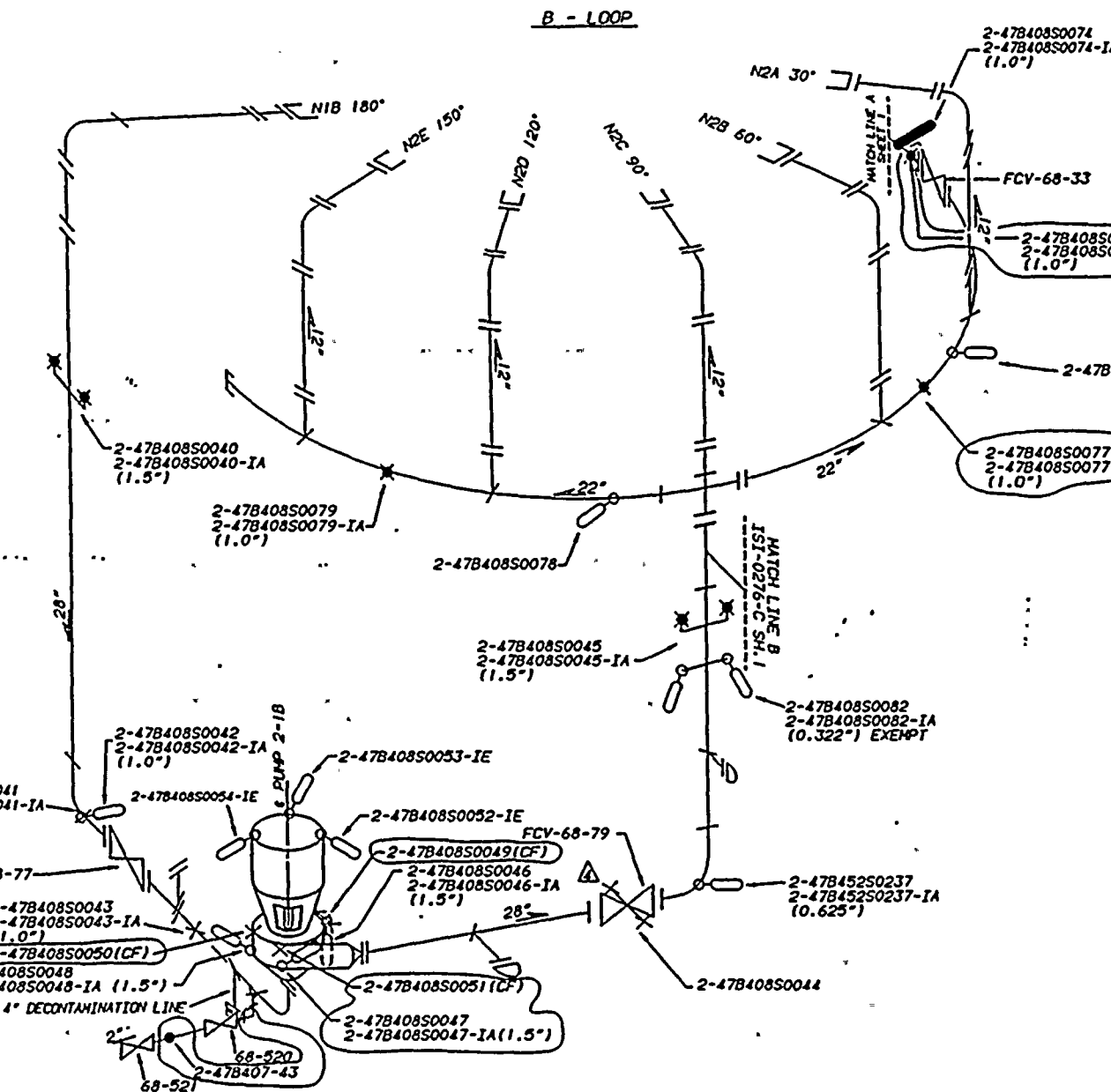
LEGEND:

- RIGID HANGER
- ⊗ VARIABLE SUPPORT
- HYDRAULIC SNUBBER
- ⊗ CONSTANT FORCE SUPPORT (CF)
- ▬ RIGID STRUT
- ASNE CC-1 (EQUIVALENT)

OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1901 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402

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

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



CONTROLLED

Page 161 of 271

REV	CHANGED BY	DATE	CHKD	DESN	INVR	APPD	APPD	ISSD
000								
TENNESSEE VALLEY AUTHORITY								
BROWNS FERRY NUCLEAR PLANT UNIT 2								
RECIRCULATION SYSTEM SUPPORT LOCATIONS								
DRAWN BY	EDC	APPROVED	GLB	SCALE NTS				
DATE: 3-26-75	DATE: 2-10-75	DATE: 2-11-75	DATE: 2-11-75	SHEET 2 OF 2 SHEETS				
CHECKED BY	EDC	DRAWING NO.		REV.				
DATE: 3-8-75	EDC	2-ISI-0278-C		R000				
CCD								



*[Faint, illegible text]*

1990

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 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 PRISM  
 \*\*\*\*\*  
 PAGE 47  
 REVISION 0002  
 DATE 01/17/95  
 \*\*\*\*\*  
 SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : ISI-0276-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B452S0228-IA	IWA	B-K-1 B10.10	R00000197			PT	19941012	PASS	YES			
2-47B452S0236-IA	IWA	B-K-1 B10.10	R00000220			PT	19941013	PASS	YES			
2-47B452S0239-IA	IWA	B-K-1 B10.10	R00000198			PT	19941012	PASS	YES			

\*\*\*\*\*  
 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 PRISM  
 \*\*\*\*\*  
 PAGE 48  
 REVISION 0002  
 DATE 01/17/95  
 \*\*\*\*\*  
 SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : ISI-0310-B SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
RHRPH-2-B-IA	IWA	C-C CS.30	R00000054			HT PT	19940517 19940519	PASS PASS	YES			

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  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 00162



11

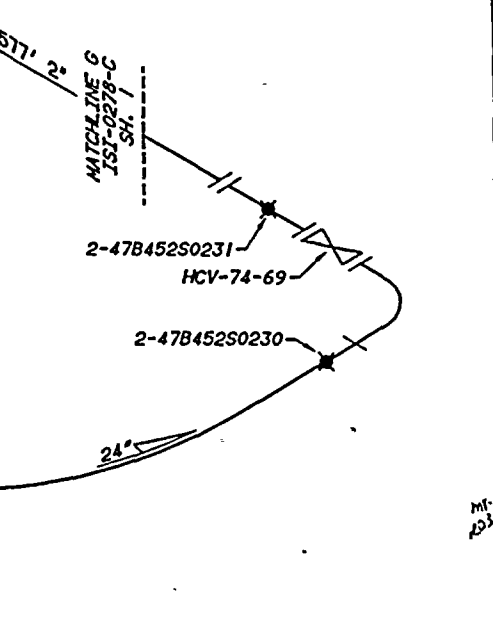
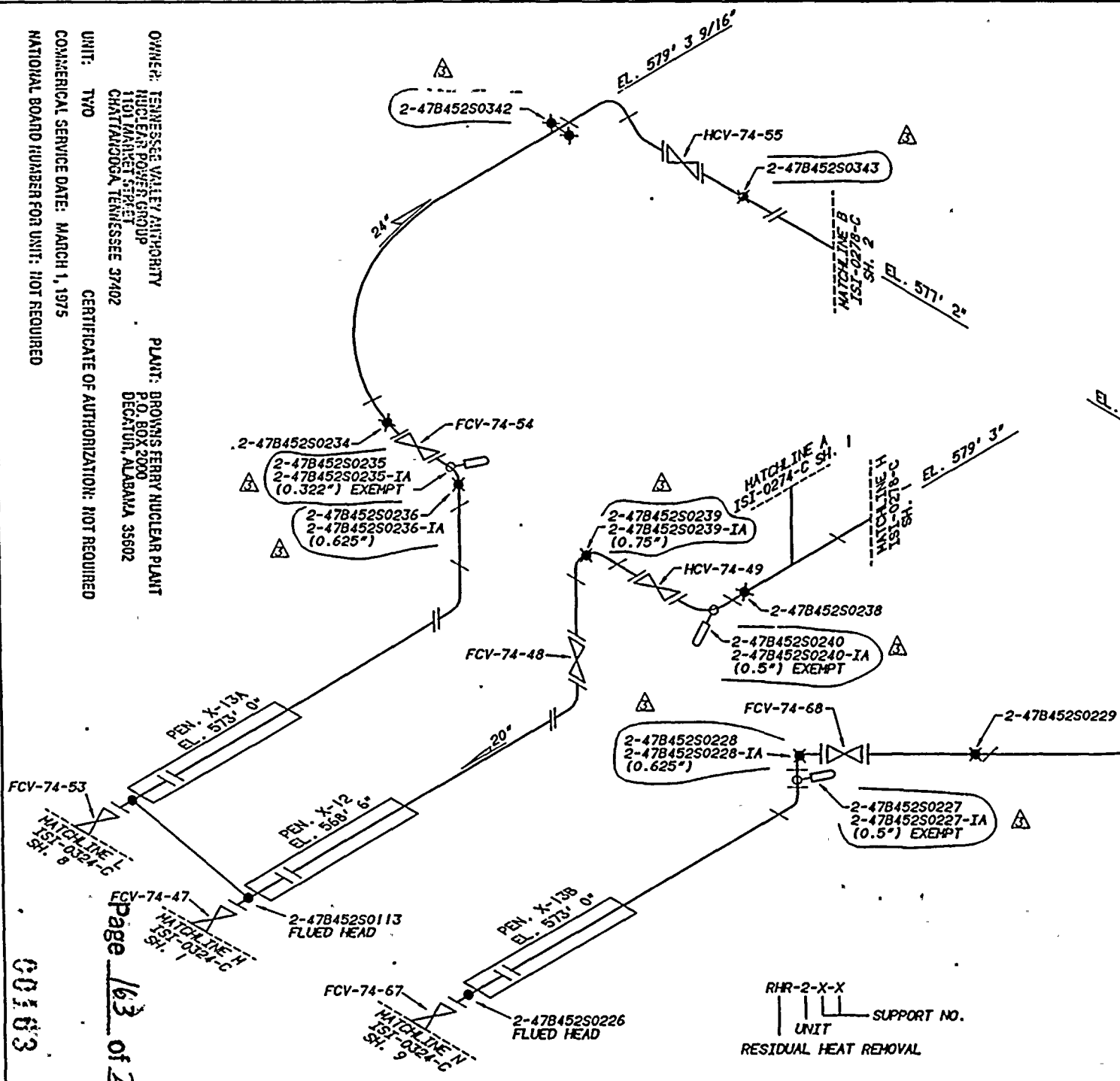
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11

11

REFERENCE DRAWINGS  
 47W452-3 R7  
 47W452-8 R5  
 47W452-10 R5  
 47W452-11 R3  
 NOTE: THIS DRAWING SUPERCEDES CHM-2084-C  
 ALL SHEETS.

LEGEND  
 \* VARIABLE SUPPORT  
 ○ HYDRAULIC SNUBBER  
 ASME CC-1 (EQUIVALENT)



3	PHS	RLB	GLB	GLB	3-28-91
2	PHS	JAA	JES	GLB	3-28-91
1	PHS	JES	EDC	GLB	2-21-89
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
HARDWARE: IBM 5085		SOFTWARE: CADAM		USER: ISTOP	
TENNESSEE VALLEY AUTHORITY					

**BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 RESIDUAL HEAT REMOVAL SYSTEM  
 SUPPORT LOCATIONS**

DRAWN: APC	DATE: 10-16-87	CHECKED: EDC	DATE: 6-16-88	APPROVED: RNC	DATE: 6-17-88	SCALE: NTS	SHEET: 01 OF 01 SHEETS
REV.:	BY:	CHECKED:	SUBMITTED:	APPROVED:	DATE:	DRAWING NO:	REV.:
		JES	EDC	RNC		IST-0276-C03	

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

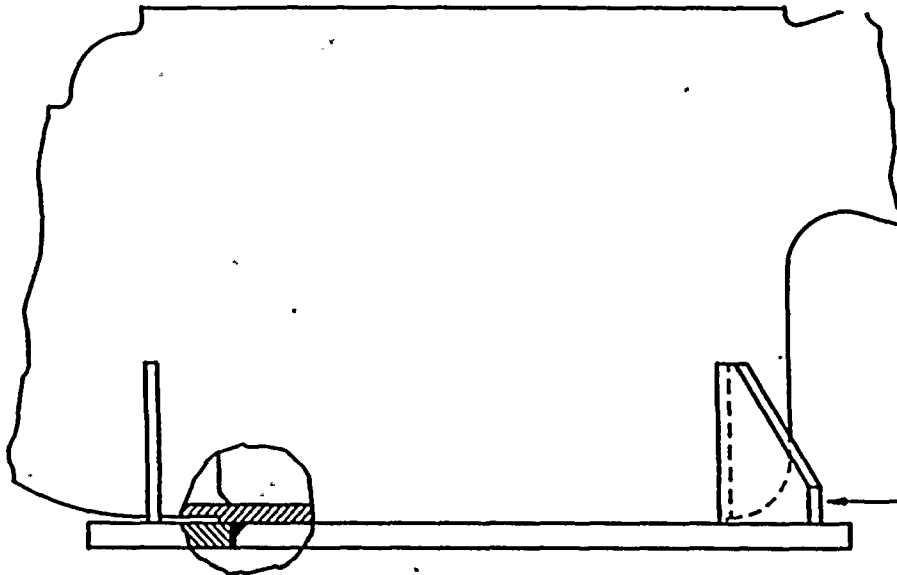
PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2000  
 DECATUR, ALABAMA 35602

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

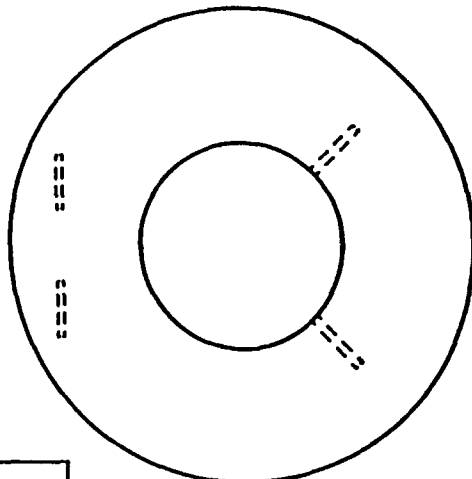
CONSTRUCTION SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

Page 163 of 271  
 00163

REFERENCE DRAWINGS:  
 THIS DRAWING SUPERCEDES ISI-0022-B  
 FOR UNIT 2 ONLY.  
 ASME CC-2 (EQUIVALENT)



RHRPH-2-A  
 :  
 :  
 :  
 B  
 C  
 D



**CONTROLLED**

REV.	BY	DATE	DESCRIPTION	CHK'D	APP

TENNESSEE VALLEY AUTHORITY  
 DIVISION OF NUCLEAR ENGINEERING

**BROWNS FERRY NUCLEAR PLANT  
 UNIT 2**

**RESIDUAL HEAT REMOVAL PUMP SUPPORT**

DRAWN: P/B	SUBMITTED	APPROVED	SCALE: NTS
DATE: 6-10-88	DATE: 6/10/88	DATE: 6/13/88	SHEET 1 OF 1 SHEET(S)
CHECKED: P/B	DATE: 6-10-88	DATE: 6-13-88	DRAWING NO.
DATE: 6-10-88	DATE: 6-10-88	DATE: 6-13-88	ISI-0310-B

REV	DD			
HARDWARE	TEKTRONIX 4129			
SOFTWARE	TEKTRONIX B.2			
FLOPPY	FLOPPY #BF4			
OR TAPE #				

Page 164 of 271

OWNER: TENNESSEE VALLEY AUTHORITY  
 PROJECT: BROWNS FERRY NUCLEAR PLANT  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402

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

UNIT: TWO

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

00164



1992



\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISIH  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : ISI-0406-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
RHRG-2-07-A	VES SHL	C-A C1.10	R00000046 R00000046	C00000001 C00000002	BF-26 BF-26	UT-45 UT-60	19940509 19940509	PASS PASS	YES YES			
RHRG-2-11-A	VES NOZ -VES HD	C-B C2.21	R00000110 R00000115 R00000115	C00000025 C00000024	BF-32 BF-32	HT UT-45 UT-60	19940928 19940928 19940928	PASS PASS PASS	YES YES YES		GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT
RHRG-2-14-C-IA	IWA	C-C C3.10	R00000047			HT	19940511	PASS	YES			

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISIH  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : MSG-0018-C SHEET : 09  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
DRHR-2-11	PIPE -VALVE	C-F-1 C5.11	R00000111 R00000119 R00000119 R00000119	C00000039 C00000031 C00000038	BF-102 BF-102 BF-102	PT UT-45 UT-45L UT-60L	19940928 19940929 19940929 19940928	PASS PASS PASS PASS	YES YES YES YES			

Page 165 of 271

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  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 00165



1950

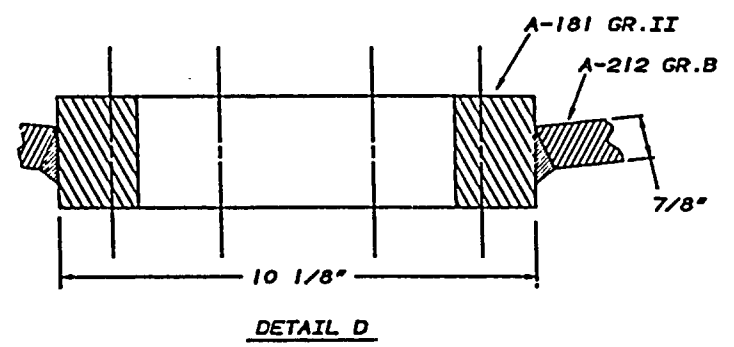
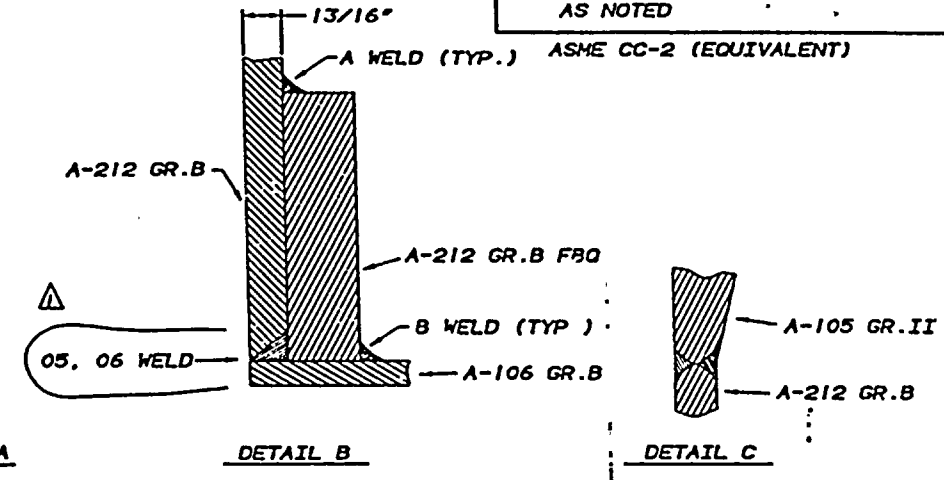
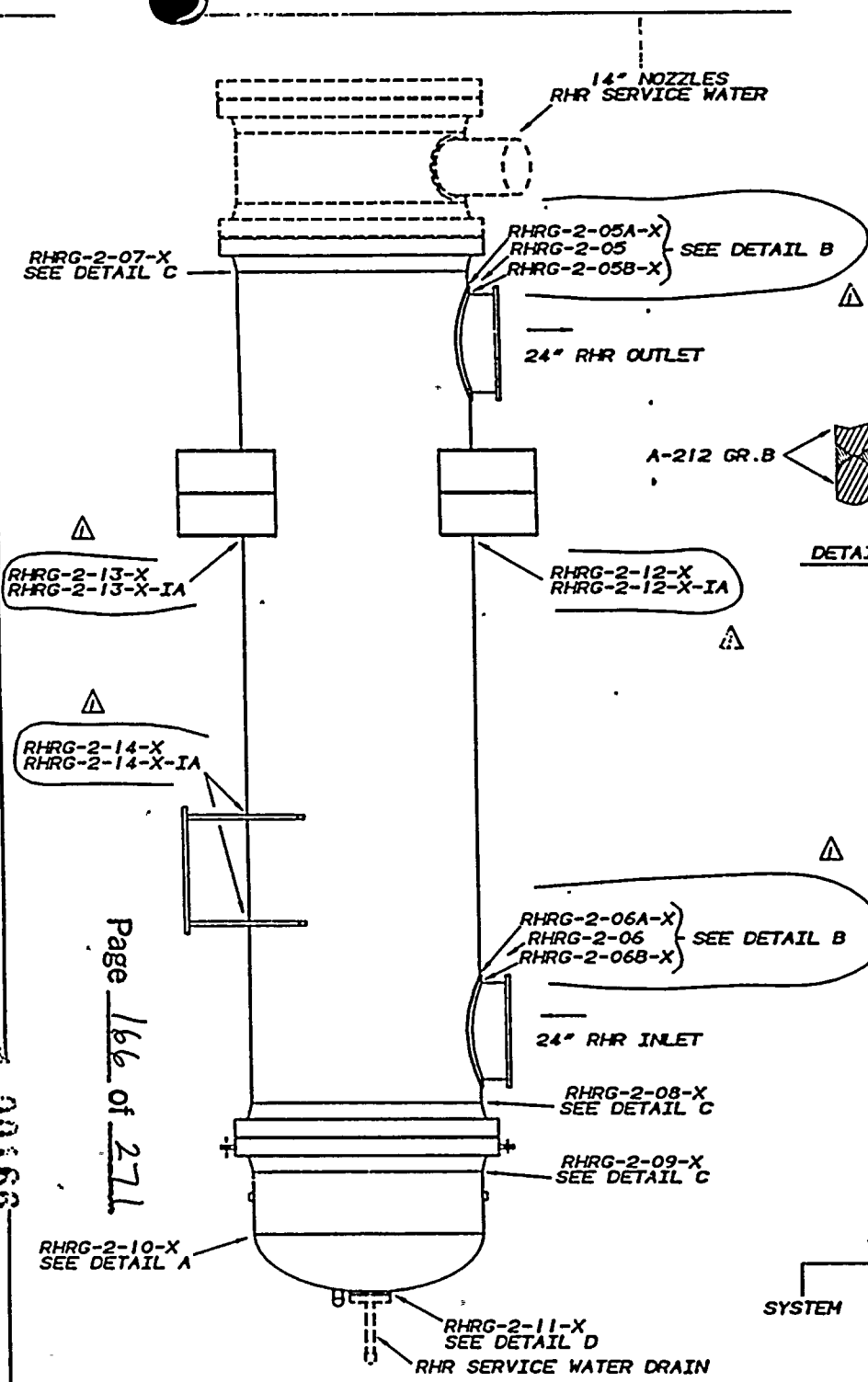
1950

1950

REFERENCE NGS  
 69-BF-165 PLANT X CORP.  
 69-D-160-05 PERFEX CORP.  
 NOTE: THIS DRAWING SUPERSEDES  
 ISI-0314-B

MATERIAL SPECIFICATIONS  
 AS NOTED

ASME CC-2 (EQUIVALENT)

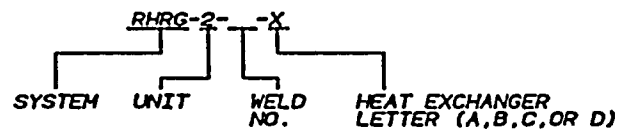


OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1101 MARKET STREET  
 CHATTANOUGA, TENNESSEE 37402

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

UNIT: TVO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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



1	PHD	REV	DATE	SCALE	NO'S	COUNT
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE	
TENNESSEE VALLEY AUTHORITY						
BROWNS FERRY NUCLEAR PLANT						
UNIT 2						
RESIDUAL HEAT REMOVAL HEAT EXCHANGER						
WELD LOCATIONS						
DRAWN: PHD	DATE: 3-13-72	SCALE: N'S	COUNT: 10/10			
CHECKED: RPS	APPROVED: [Signature]	SHEET 01 OF 01		REV		
SUBMITTED: JES	APPROVED: [Signature]	ISI-0406-C01				

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*****
N NUTECH TENNESSEE VALLEY AUTHORITY PRISM
N BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
N ISI DATA BASE
N POST OUTAGE EXAMINATION RESULTS REPORT *****
N EXAM REQUIREMENT : 86E-02 CYCLE : 07
N INTERVAL : 02 PERIOD : 1
N PAGE 51
N REVISION 0002
N DATE 01/17/95
*****
SYSTEM : RHRSH RHR SERVICE WATER SYSTEM - 023
ISO METRIC NUMBER : ISI-0145-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-17B300S0091	RIG HGR	F-A FL.30A	R00000001			VT-3	19940330	PASS	YES			

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

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*****
N NUTECH TENNESSEE VALLEY AUTHORITY PRISM
N BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
N ISI DATA BASE
N POST OUTAGE EXAMINATION RESULTS REPORT *****
N EXAM REQUIREMENT : 86E-02 CYCLE : 07
N INTERVAL : 02 PERIOD : 1
N PAGE 52
N REVISION 0002
N DATE 01/17/95
*****
SYSTEM : RHRSH RHR SERVICE WATER SYSTEM - 023
ISO METRIC NUMBER : ISI-0145-C SHEET : 02
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B450H0033-IA	IWA	D-B D2.20	R00000002			VT-3	19940331	PASS	YES			
2-47B450H0034-IA	IWA	D-B D2.20	R00000012			VT-3	19940405	PASS	YES			
2-47B450H0035-IA	IWA	D-B D2.20	R00000004			VT-3	19940404	PASS	YES			
2-47B450H0036-IA	IWA	D-B D2.20	R00000009			VT-3	19940405	PASS	YES			
2-47B450H0040-IA	IWA	D-B D2.40	R00000008			VT-3	19940405	PASS	YES			
2-47B450H0041-IA	IWA	D-B D2.40	R00000010			VT-3	19940405	PASS	YES			
2-47B450H0042-IA	IWA	D-B D2.40	R00000005			VT-3	19940404	PASS	YES			
2-47B450H0043-IA	IWA	D-B D2.40	R00000006			VT-3	19940404	PASS	YES			
2-47B450R0023-IA	IWA	D-B D2.20	R00000011			VT-3	19940405	PASS	YES			
2-47B450R0024-IA	IWA	D-B D2.20	R00000003			VT-3	19940331	PASS	YES			
2-47B450R0027-IA	IWA	D-B D2.20	R00000014			VT-3	19940407	PASS	YES			

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REFERENCE DRAWINGS

47N450-2  
47N450-4

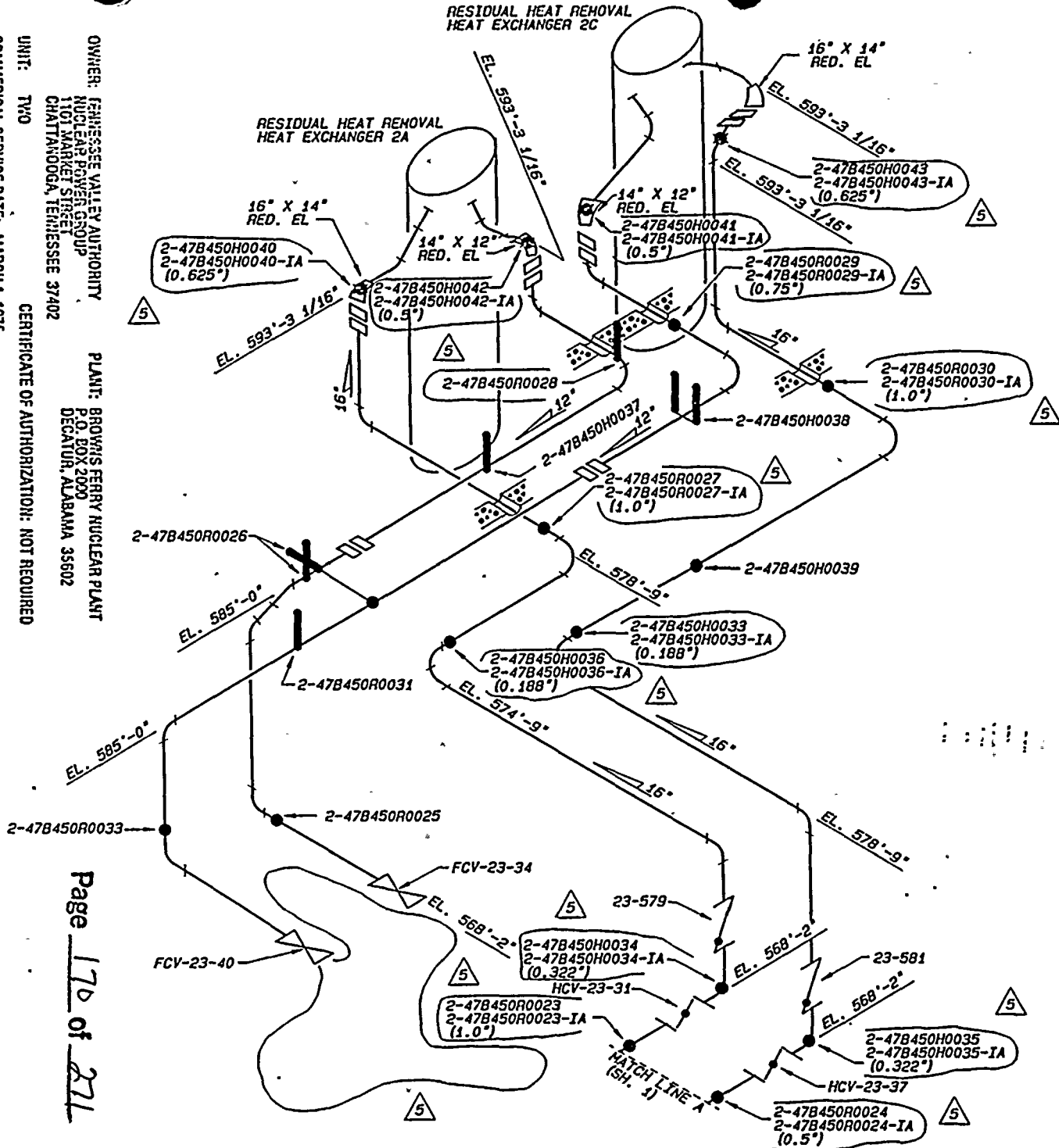
LEGEND

- RIGID HANGER
- ⊗ VARIABLE SUPPORT
- ▬ RIGID STRUT

ASME CC-3 (EQUIVALENT)

RESIDUAL HEAT REMOVAL  
HEAT EXCHANGER 2C

RESIDUAL HEAT REMOVAL  
HEAT EXCHANGER 2A



NO.	DATE	DESCRIPTION	BY	CHKD.	APP'D.
05	6-2-91	REVISE SUPPORT NUMBERS TO MATCH REV. HANGERS FROM THE EXISTING QUALITY SUPPORTS OUTSIDE BOUNDARY	GLB	JKL	JKL
04	4-11-91	REV. SUPPORTS FROM THE EXISTING REV. SUPPORTS FROM THE EXISTING NO. 1000000000	JAA	JES	GLB
03	6-20-90	REVISE SUPPORT NO. R-27 REMOVE OLD SUPPORT ID'S & NOTE	JAA	JES	GLB
02	3-26-90	CHANGE SUPPORT I.D.S. REV. VALVES REV. REDUCERS AND REV. TITLE BLOCK	JES	EDC	GLB
01	3-8-87	REDRAWN & REVISED FOR PRINTING	JES	EDC	GLB
REV. BY	DATE	DESCRIPTION	BY	CHKD.	APP'D.
DRAWING: TER 4129 SOFTWARE: TEKCAD 1.8 PLOTTING: 8x-8					
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT # 2					
RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM					
SUPPORT LOCATIONS					
DRAWN	KEY	SUBMITTED	APPROVED	SCALE	NIS
DATE	3-8-84	DATE	DATE	SHEET	02 OF 03 SHEETS
CREATED	JRL		GLB	DRAWING NO.	REV
DATE				151-0145-C	05

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

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

UNIT: TWO

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RHRSH RHR SERVICE WATER SYSTEM - 023  
 ISOMETRIC NUMBER : ISI-0145-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B450R0028	R STRUT	F-A F1.30A	R00000013			VT-3	19940407	PASS	YES			
2-47B450R0029-IA	IWA	D-B D2.20	R00000085			VT-3	19940606	PASS	YES			
2-47B450R0030-IA	IWA	D-B D2.20	R00000007			VT-3	19940404	PASS	YES			

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

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RHRSH RHR SERVICE WATER SYSTEM - 023  
 ISOMETRIC NUMBER : ISI-0145-C SHEET : 03  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B450H0044-IA	IWA	D-B D2.20	R00000021			VT-3	19940412	PASS	YES			
2-47B450H0049-IA	IWA	D-B D2.20	R00000015			VT-3	19940412	PASS	YES			
2-47B450H0053-IA	IWA	D-B D2.40	R00000028			VT-3	19940419	PASS	YES			
2-47B450H0054-IA	IWA	D-B D2.40	R00000016			VT-3	19940412	PASS	YES			
2-47B450H0055-IA	IWA	D-B D2.40	R00000017			VT-3	19940412	PASS	YES			
2-47B450R0035-IA	IWA	D-B D2.20	R00000020			VT-3	19940412	PASS	YES			
2-47B450R0040-IA	IWA	D-B D2.20	R00000029			VT-3	19940420	PASS	YES			
2-47B450R0041-IA	IWA	D-B D2.20	R00000022			VT-3	19940414	PASS	YES			
2-47B450R0042-IA	IWA	D-B D2.20	R00000023			VT-3	19940414	PASS	YES			
2-47B450S0001-IA	IWA	D-B D2.20	R00000018			VT-3	19940412	PASS	YES			
2-47B452S0279-IA	IWA	D-B D2.40	R00000027			VT-3	19940419	PASS	YES			

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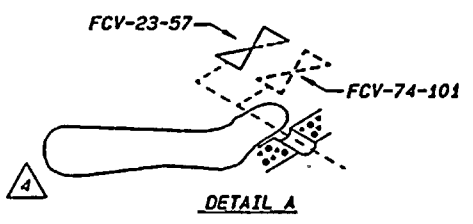
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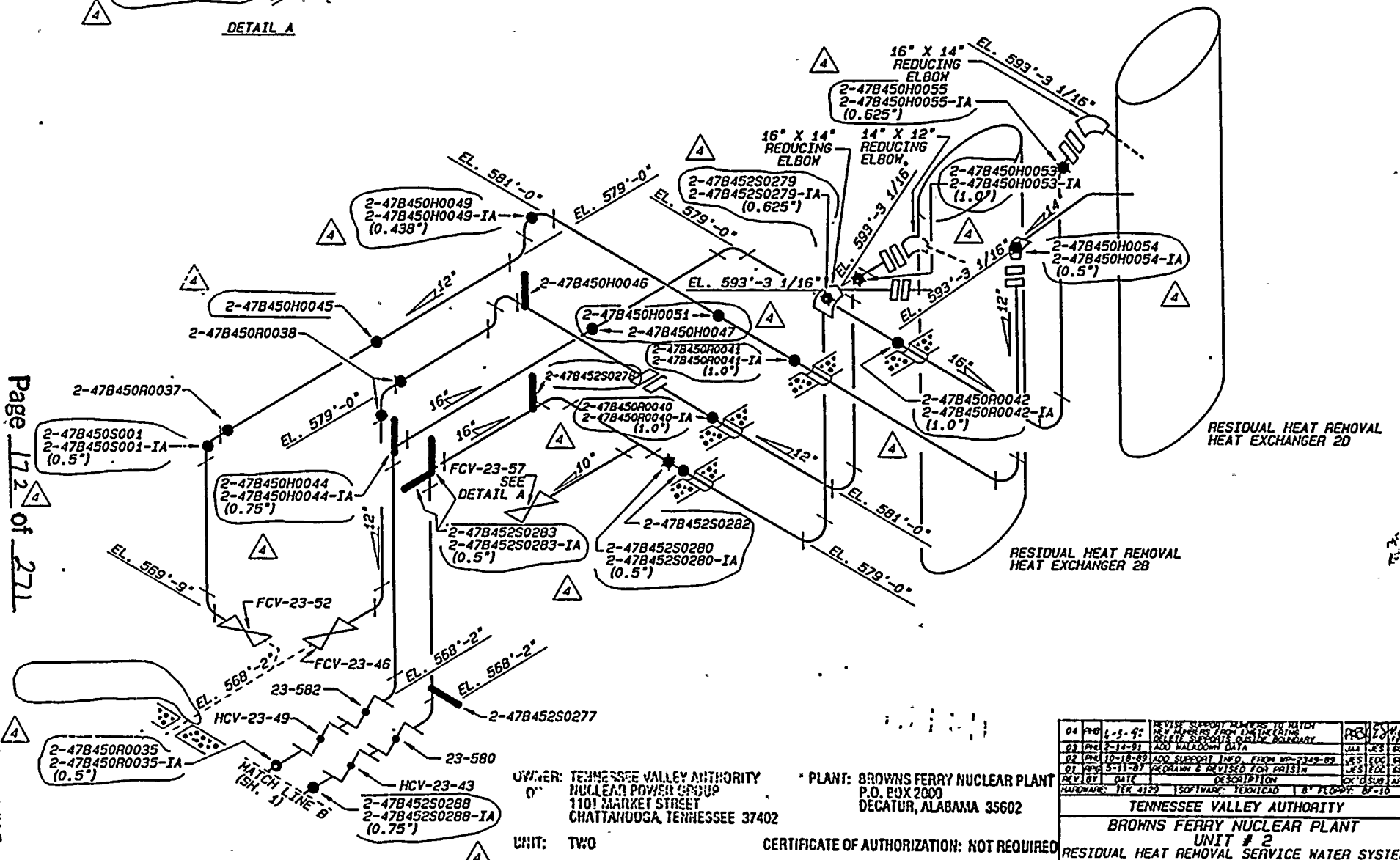
REFERENCE DRAWINGS  
 47N450-2  
 47N450-4

LEGEND  
 ○ RIGID HANGER  
 ✱ VARIABLE SUPPORT  
 — RIGID STRUT

ASME CC-3 (EQUIVALENT)



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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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

04	REV	6-5-91	REVISE SUPPORT PLUMBERS TO MATCH NEW PLUMBERS FROM UNIT 2010	PRO	CSW/
03	REV	2-12-91	DELETE SUPPORTS OUTSIDE BOUNDARY	JAN	LES/
02	REV	10-18-89	ADD SUPPORT INFO. FROM WD-2319-89	LES	LOC/
01	REV	5-11-87	REDRAWN & REVISED FOR PRISM	LES	LOC/
	REV		DESCRIPTION	CK	SUB/
	REV		DATE	APP	
HARDWARE:		VER 4129	SOFTWARE: TECHCAD	8" FLOPPY:	89-16
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT # 2					
RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM					
SUPPORT LOCATIONS					
DRAWN	REV	SUBMITTED	APPROVED	SCALE:	RTS
DATE:	3-12-91	DATE:	DATE:		
DESIGNED:	JUL		GLB		
DATE:					
				SHEET 03 OF 03 SHEETS	
				DRAWING NO.	REV
				151-0145-C	04

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 \* NUTECH TENNESSEE VALLEY AUTHORITY PRISM \*  
 \* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 \*  
 \* ISI DATA BASE \*  
 \* POST OUTAGE EXAMINATION RESULTS REPORT \*  
 \* EXAM REQUIREMENT : 86E-02 CYCLE : 07 \*  
 \* INTERVAL : 02 PERIOD : 1 \*  
 \*\*\*\*\*  
 \* SYSTEM : RHR SW RHR SERVICE WATER SYSTEM - 023 \*  
 \* ISOMETRIC NUMBER : ISI-0145-C SHEET : 03 \*  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B452S0280-IA	IWA	D-B D2.40	R00000025			VT-3	19940419	PASS	YES			
2-47B452S0283-IA	IWA	D-B D2.20	R00000026			VT-3	19940419	PASS	YES			
2-47B452S0288-IA	IWA	D-B D2.20	R00000024			VT-3	19940419	PASS	YES			

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\*\*\*\*\*  
 \* NUTECH TENNESSEE VALLEY AUTHORITY PRISM \*  
 \* BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 \*  
 \* ISI DATA BASE \*  
 \* POST OUTAGE EXAMINATION RESULTS REPORT \*  
 \* EXAM REQUIREMENT : 86E-02 CYCLE : 07 \*  
 \* INTERVAL : 02 PERIOD : 1 \*  
 \*\*\*\*\*  
 \* SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068 \*  
 \* ISOMETRIC NUMBER : CHW-2046-C SHEET : 01 \*  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
N1A	RCO NOZ -SHELL	B-D B3. 90	R00001001	C00000505	BF-18	UT-0	19941009	PASS	YES	IS12-6		
			R00001001	C00000560	BF-18	UT-0	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001001	C00000510	BF-18	UT-45	19941011	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001001	C00000514	BF-18	UT-45	19941010	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001001	C00000560	BF-18	UT-45	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001001	C00000512	BF-18	UT-60	19941010	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
N1A-IR	RCO NIR	B-D B3.100	R00001002	C00000501	BF-18	UT-IR	19941009	PASS	YES	IS12-6		
			R00001002	C00000619	BF-18	UT-IR	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
N2B	RCI NOZ -SHELL	B-D B3. 90	R00001021	C00000550	BF-18	UT-0	19941023	PASS	YES	IS12-6		
			R00001021	C00000560	BF-18	UT-0	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001021	C00000548	BF-18	UT-45	19941023	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001021	C00000560	BF-18	UT-45	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001021	C00000549	BF-18	UT-60	19941023	PASS	YES	IS12-6	NON-GEO/HTL	EVALUATED,OK
N2B-IR	RCI NIR	B-D B3.100	R00001021	C00000560	BF-18	UT-60	19941006	PASS	YES	IS12-6	NON-GEO/HTL	EVALUATED,OK
			R00001021	C00000560	BF-18	UT-60	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
N2F	RCI NOZ -SHELL	B-D B3. 90	R00001023	C00000539	BF-18	UT-0	19941022	PASS	YES	IS12-6		







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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : CHM-2046-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
N2F	RCI NOZ -SHELL	B-D B3. 90	R00001023	C00000560	BF-18	UT-0	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001023	C00000551	BF-18	UT-45	19941022	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001023	C00000560	BF-18	UT-45	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001023	C00000540	BF-18	UT-60	19941022	PASS	YES	IS12-6	NON-GEO/HTL EVALUATED,OK	NON-RELEVANT
			R00001023	C00000552	BF-18	UT-60	19941022	PASS	YES	IS12-6	NON-GEO/HTL EVALUATED,OK	NON-RELEVANT
N2F-IR	RCI NIR	B-D B3.100	R00001024	C00000614	BF-18	UT-IR	19941006	PASS	YES		GEOMETRIC	NON-RELEVANT
N2J	RCI NOZ -SHELL	B-D B3. 90	R00001025	C00000539	BF-18	UT-0	19941022	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001025	C00000560	BF-18	UT-0	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001025	C00000551	BF-18	UT-45	19941022	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001025	C00000560	BF-18	UT-45	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001025	C00000540	BF-18	UT-60	19941022	PASS	YES	IS12-6	NON-GEO/HTL EVALUATED,OK	NON-RELEVANT

\*\*\*\*\*  
 OWNER: TENNESSEE VALLEY AUTHORITY PLANT: BROWNS FERRY NUCLEAR PLANT  
 NUCLEAR POWER GROUP P.O. BOX 2000  
 1101 MARKET STREET DECATUR, ALABAMA 35602  
 CHATTANOOGA, TENNESSEE 37402  
 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : CHM-2046-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
N2J	RCI NOZ -SHELL	B-D B3. 90	R00001025	C00000560	BF-18	UT-60	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
N2J-IR	RCI NIR	B-D B3.100	R00001026	C00000612	BF-18	UT-IR	19941006	PASS	YES		GEOMETRIC	NON-RELEVANT
N3D	HS NOZ -SHELL	B-D B3. 90	R00001003	C00000560	BF-18	UT-0	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001003	C00000516	BF-18	UT-45	19941013	PASS	YES	IS12-6	NON-GEO/HTL EVALUATED,OK	NON-RELEVANT
			R00001003	C00000560	BF-18	UT-45	19941006	PASS	YES	IS12-6	NON-GEO/HTL EVALUATED,OK	NON-RELEVANT
			R00001003	C00000560	BF-18	UT-45	19941006	PASS	YES	IS12-6	NON-GEO/HTL EVALUATED,OK	NON-RELEVANT
			R00001003	C00000517	BF-18	UT-60	19941013	PASS	YES	IS12-6	NON-GEO/HTL EVALUATED,OK	NON-RELEVANT
N3D	HS NIR	B-D B3.100	R00001004	C00000560	BF-18	UT-60	19941006	PASS	YES	IS12-6	GEOMETRIC	NON-RELEVANT
			R00001004	C00000560	BF-18	UT-60	19941006	PASS	YES	IS12-6	NON-GEO/HTL EVALUATED,OK	NON-RELEVANT
			R00001004	C00000560	BF-18	UT-60	19941006	PASS	YES	IS12-6	NON-GEO/HTL EVALUATED,OK	NON-RELEVANT



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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : CHH-2046-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
N4A	FW NOZ -SHELL	B-D B3. 90	R00001006	C00000529	BF-18	UT-0	19941017	PASS	YES	ISI2-6	GEOMETRIC	NON-RELEVANT
			R00001006	C00000560	BF-18	UT-0	19941006	PASS	YES	ISI2-6		
			R00001006	C00000520	BF-18	UT-45	19941016	PASS	YES	ISI2-6		
			R00001006	C00000560	BF-18	UT-45	19941006	PASS	YES	ISI2-6		
			R00001006	C00000521	BF-18	UT-60	19941016	PASS	YES	ISI2-6		
N4A-IR	FW NIR	B-D B3.100	R00001009	C00000530	BF-18	UT-IR	19941017	PASS	YES	ISI2-6	NON-RELEVANT	
			R00001009	C00000531	BF-18	UT-IR	19941017	PASS	YES	ISI2-6		
			R00001009	C00000634	BF-18	UT-IR	19941006	PASS	YES	ISI2-6		
N4F	FW NOZ -SHELL	B-D B3. 90	R00001005	C00000525	BF-18	UT-0	19941017	PASS	YES	ISI2-6	GEOMETRIC	NON-RELEVANT
			R00001005	C00000560	BF-18	UT-0	19941006	PASS	YES	ISI2-6		
			R00001005	C00000518	BF-18	UT-45	19941015	PASS	YES	ISI2-6		
			R00001005	C00000560	BF-18	UT-45	19941006	PASS	YES	ISI2-6		
			R00001005	C00000519	BF-18	UT-60	19941015	PASS	YES	ISI2-6		
R00001005	C00000560	BF-18	UT-60	19941006	PASS	YES	ISI2-6					

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : CHH-2046-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
N4F-IR	FW NIR	B-D B3.100	R00001007	C00000522	BF-18	UT-IR	19941017	PASS	YES	ISI2-6	NON-RELEVANT	
			R00001007	C00000524	BF-18	UT-IR	19941017	PASS	YES	ISI2-6		
			R00001007	C00000603	BF-18	UT-IR	19941006	PASS	YES	ISI2-6		
NSA	CS NOZ -SHELL	B-D B3. 90	R00001027	C00000537	BF-18	UT-0	19941021	PASS	YES	ISI2-6	GEOMETRIC	NON-RELEVANT
			R00001027	C00000560	BF-18	UT-0	19941006	PASS	YES	ISI2-6		
			R00001027	C00000535	BF-18	UT-45	19941021	PASS	YES	ISI2-6		
			R00001027	C00000560	BF-18	UT-45	19941006	PASS	YES	ISI2-6		
			R00001027	C00000536	BF-18	UT-60	19941020	PASS	YES	ISI2-6		
R00001027	C00000560	BF-18	UT-60	19941006	PASS	YES	ISI2-6					
NSA-IR	CS NIR	B-D B3.100	R00001028	C00000538	BF-18	UT-IR	19941020	PASS	YES	ISI2-6	GEOMETRIC	NON-RELEVANT
			R00001028	C00000547	BF-18	UT-IR	19941019	PASS	YES	ISI2-6		
			R00001028	C00000601	BF-18	UT-IR	19941006	PASS	YES	ISI2-6		
N8A	JPI NOZ -SHELL	B-D B3. 90	R00001008	C00000526	BF-18	UT-0	19941017	PASS	YES	ISI2-6	NON-RELEVANT	
			R00001008	C00000527	BF-18	UT-45	19941017	PASS	YES	ISI2-6		
			R00001008	C00000528	BF-18	UT-60	19941017	PASS	YES	ISI2-6		
N8A-IR	JPI NIR	B-D B3.100	R00001011	C00000532	BF-18	UT-IR	19941018	PASS	YES	ISI2-6	NON-RELEVANT	
			R00001011	C00000533	BF-18	UT-IR	19941018	PASS	YES	ISI2-6		
			R00001011	C00000534	BF-18	UT-IR	19941018	PASS	YES	ISI2-6		

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED





10300

FL GROUP | DISTANCE TO MATING SURFACE

N1X - 86.5°  
 N12X - 146°  
 N11X - 228°  
 N4X - 246.3°  
 N5X - 259.5°  
 N9 - 296.5°  
 N16X - 379°  
 N2X - 564°  
 N1X - 583.5°  
 N8X - 610°

OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1191 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402

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

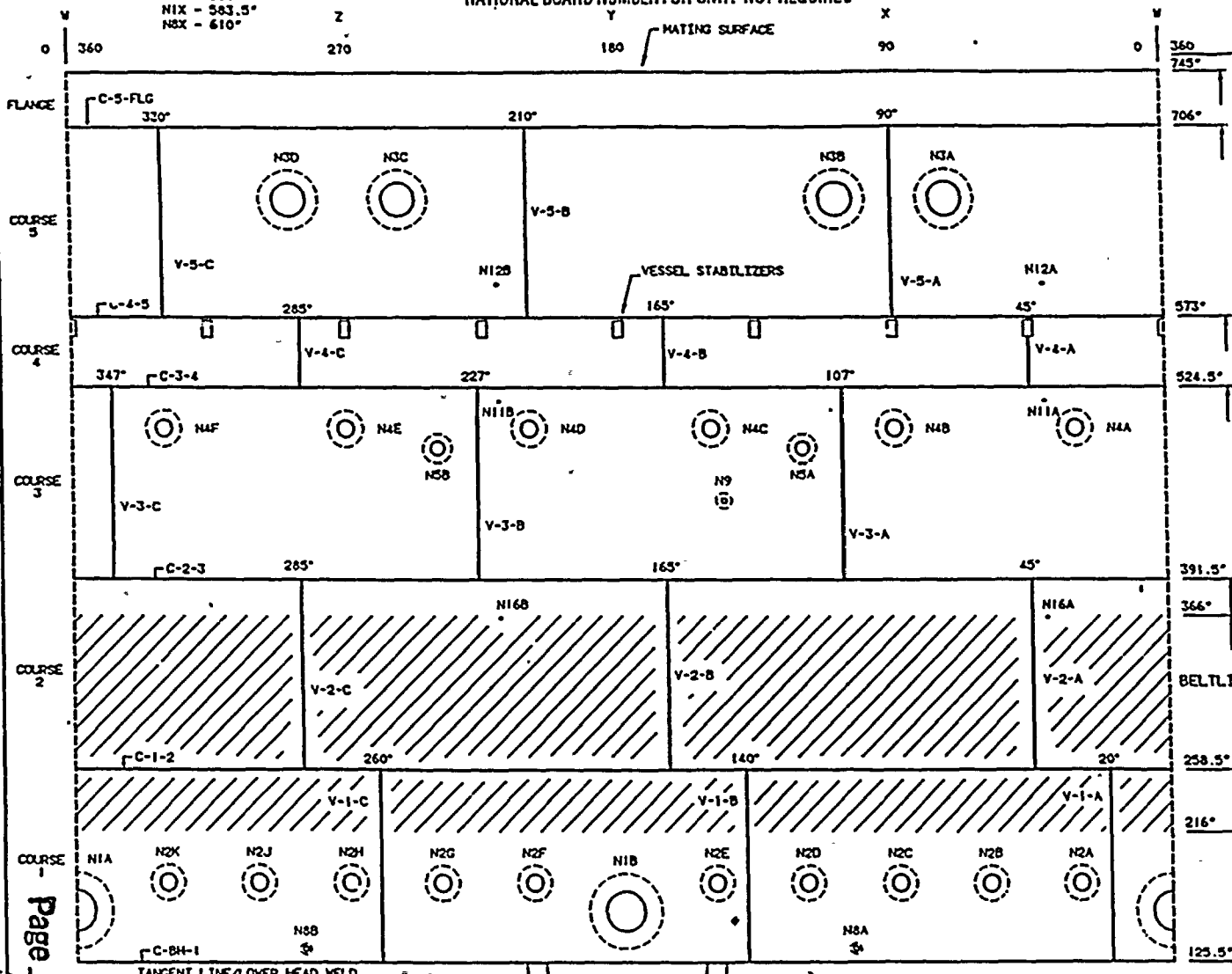
UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REFERENCE DRA  
 SKETCHES - RPV EXAMIN  
 SK-B2001 SK-B2005  
 SK-B2003 SK-B2007  
 SK-B2004 SK-B2006

(GE)  
 JAN (GE)  
 -B2010

**LEGEND**

○ VESSEL NOZZLE  
 ○ FULL PENETRATION NOZZLE WELD  
 ASME CC-1 (EQUIVALENT)



2	PHD	JES	CLB	ONE	10-28-92
REVISE WELD DIMENSIONS TO LOCATE FROM BOTTOM HEAD, REVISE REF. DIMS					
3	PHD	JES	CLB	ONE	10-28-92
REDRAW TO CADAM, ADD AS-BUILT DIMENSIONS, REVISE V-4 WELDS V-4-A NOW V-4-C, V-4-B NOW V-4-A, V-4-C NOW V-4-B, ADD BELTLINE					
2	PHD	APG	JES	CLB	6-3-92
DEL CADAM, ADD NOZZLES TO: 11A, 11B, 12A, 12B, RELOCATE 11A & 12B, DELETE DEGREE LINES					
1	APG	JES	SDC	CLB	12-29-88
REVISED ELEVATIONS AND TITLE BLOCK					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE

TENNESSEE VALLEY AUTHORITY  
**BROWNS FERRY NUCLEAR PLANT**  
 UNIT 2  
 REACTOR PRESSURE VESSEL (RPV)  
 SHELL COURSE WELD/NOZZLE LOCATIONS (OUTSIDE VIEW)

DRAWN:	DATE:	SCALE:	REVISIONS:
CHECKED:	APPROVED:	SHEET 01 OF 02	REV
SUBMITTED:	GLB	CHM-2046-C04	

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 00178

1921

1921

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*****
NUTECH                                TENNESSEE VALLEY AUTHORITY                                PRISM
BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT : 86E-02 CYCLE : 07
INTERVAL : 02 PERIOD : 1
*****
SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068
ISOMETRIC NUMBER : ISI-0222-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
N3D-SE	HS NO2 -SAFEEND	B-J B9.11	R00000389 R00000390	C00000287	BF-104	HT UT-45	19941023 19941023	PASS PASS	YES YES		

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*****
NUTECH                                TENNESSEE VALLEY AUTHORITY                                PRISM
BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
ISI DATA BASE
POST OUTAGE EXAMINATION RESULTS REPORT
EXAM REQUIREMENT : 86E-02 CYCLE : 07
INTERVAL : 02 PERIOD : 1
*****
SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068
ISOMETRIC NUMBER : ISI-0269-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
N4A-SE	FH NO2 -SAFEEND	B-J B9.11	R00000323 R00000370	C00000286	BF-93	HT UT-45	19941020 19941020	PASS PASS	YES YES		
N4F-SE	FH NO2 -SAFEEND	B-J B9.11	R00000322 R00000316	C00000286	BF-93	HT UT-45	19941020 19941020	PASS PASS	YES YES		

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

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED



1100

REFERENCE DRAWINGS:

47K1767  
47K335-1  
KELLOGG 7396229  
CHM-2087-C (SH. 1) SUPPORT MAP  
NOTE: THIS DRAWING SUPERCEDES  
CHM-2069-C (SH. 1)

PIPE DATA

ASME CC-1 (EQUIVALENT)  
ASTM A-155 KC 70  
26" X 0.950 NOM. WALL THK. (CS)  
6" X 0.719 NOM. WALL THK. (SCH: 109 CS)

NOTES:

ALL FIELD WELDS WERE MADE BY TYA

NOTE:

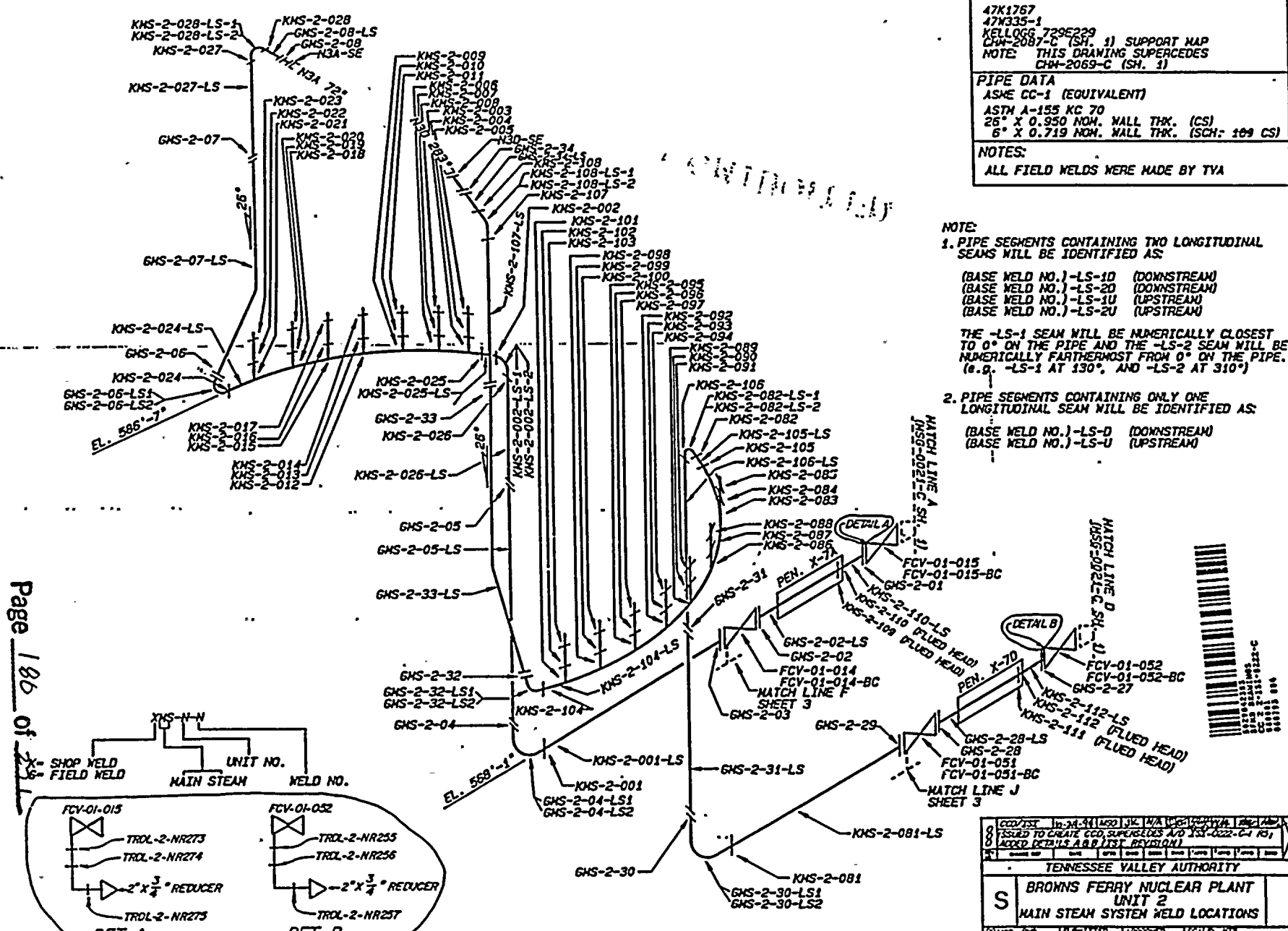
1. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:

(BASE WELD NO.)-LS-1D (DOWNSTREAM)  
(BASE WELD NO.)-LS-2D (DOWNSTREAM)  
(BASE WELD NO.)-LS-1U (UPSTREAM)  
(BASE WELD NO.)-LS-2U (UPSTREAM)

THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (E.G. -LS-1 AT 130°, AND -LS-2 AT 310°)

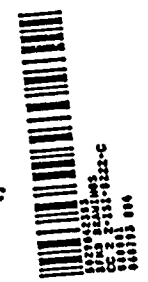
2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:

(BASE WELD NO.)-LS-D (DOWNSTREAM)  
(BASE WELD NO.)-LS-U (UPSTREAM)



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50180



(COPY/ISSUE TO: N/A) (ISSUE TO: N/A) (ISSUE TO: N/A) (ISSUE TO: N/A) 9 ISSUED TO CREATE CCD SUPERCEDES AND IS-022-C (R) 0 ADDED DETAIL A, B, LIST REVISIONS			
TENNESSEE VALLEY AUTHORITY			
S BROWNS FERRY NUCLEAR PLANT UNIT 2 MAIN STEAM SYSTEM WELD LOCATIONS			
DATE: 12-11-88 DESIGNED BY: EDC DATE: 8-10-88	DRAWN BY: G.L.B. DATE: 12-11-88	CHECKED BY: G.L.B. DATE: 12-11-88	SCALE: N/A DATE: 12-11-88
EDC		GLB	
2-1ST-022-C 100			

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P-6-00X-2069  
 DECATUR, ALABAMA 35602

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

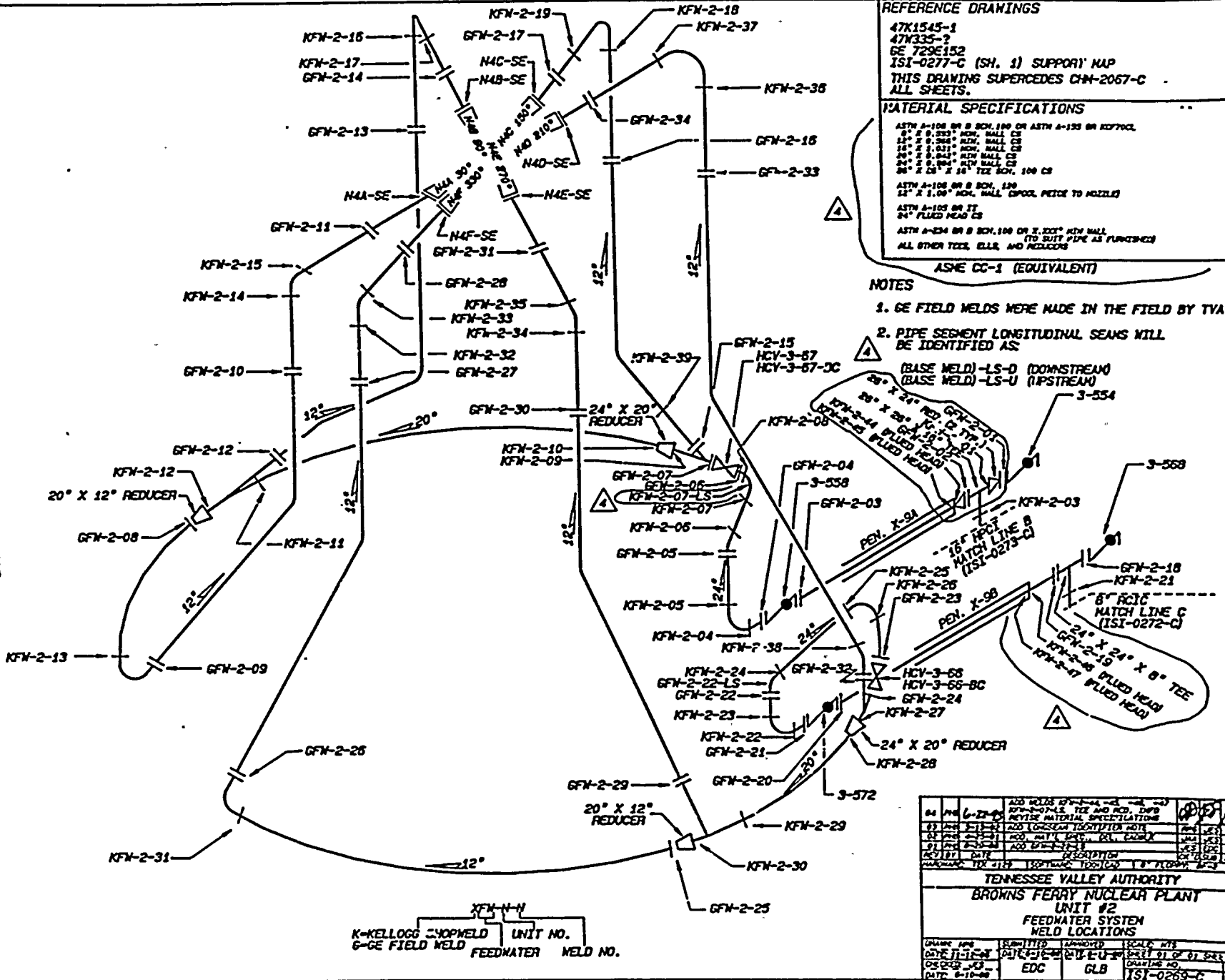
10101

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

UNIT: TWO  
 AUTHORITY: AUTHORIZATION: NOT REQUIRED

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

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



**REFERENCE DRAWINGS**  
 47K1545-1  
 47K335-2  
 GE 729E152  
 ISI-0277-C (SH. 1) SUPPORT MAP  
 THIS DRAWING SUPERCEDES CHN-2067-C  
 ALL SHEETS.

**MATERIAL SPECIFICATIONS**

ASTM A-106 OR B SCH. 100 OR ASTM A-133 OR K07702  
 8\"/>

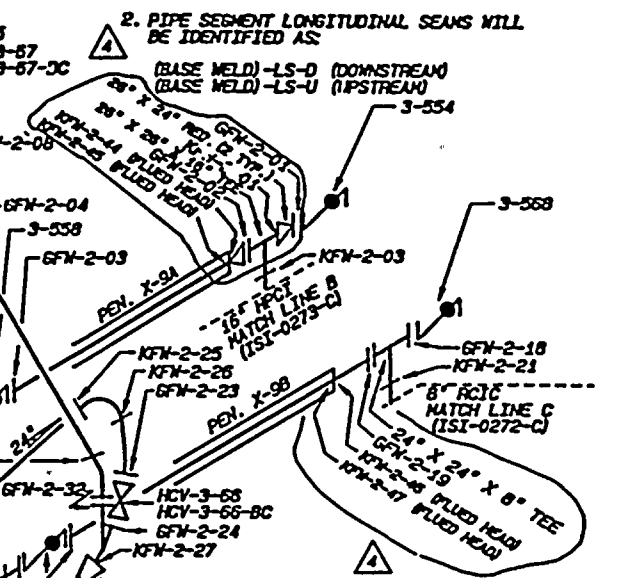
ASTM A-106 OR B SCH. 100  
 12\"/>

ASTM A-106 OR B SCH. 100 OR A-133 OR K07702  
 24\"/>

ASTM A-234 OR B SCH. 100 OR 2.000\"/>

ASME CC-1 (EQUIVALENT)

**NOTES**  
 1. GE FIELD WELDS WERE MADE IN THE FIELD BY TVA  
 2. PIPE SEGMENT LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:



NO.	DATE	DESCRIPTION	BY	CHKD.
01	6-10-68	ADD WELDS FROM CHN-2067-C	EDC	GLB
02	6-10-68	REVISE MATERIAL SPECIFICATIONS	EDC	GLB
03	6-10-68	ADD LONGSEAM IDENTIFICATION	EDC	GLB
04	6-10-68	ADD LONGSEAM IDENTIFICATION	EDC	GLB
05	6-10-68	ADD LONGSEAM IDENTIFICATION	EDC	GLB
06	6-10-68	ADD LONGSEAM IDENTIFICATION	EDC	GLB
07	6-10-68	ADD LONGSEAM IDENTIFICATION	EDC	GLB
08	6-10-68	ADD LONGSEAM IDENTIFICATION	EDC	GLB
09	6-10-68	ADD LONGSEAM IDENTIFICATION	EDC	GLB
10	6-10-68	ADD LONGSEAM IDENTIFICATION	EDC	GLB

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT #2  
 FEEDWATER SYSTEM  
 WELD LOCATIONS

DATE: 6-10-68	DESIGNED BY: EDC	CHECKED BY: GLB	SCALE: NTS
DRAWING NO: ISI-0269-C	SHEET NO: 01	TOTAL SHEETS: 01	DATE: 6-10-68





12100

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M POST OUTAGE EXAMINATION RESULTS REPORT M
M EXAM REQUIREMENT : 86E-02 CYCLE : 07 M
M INTERVAL : 02 PERIOD : 1 M
*****
M SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068 M
M ISOMETRIC NUMBER : ISI-0270-C SHEET : 01 M
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
N1A-SE	RCO NOZ -SAFEEND	B-F B5. 10	R00000219	C00000221	BF-90	PT	19941013	PASS	YES			
			R00000405	C00000247	BF-107	UT-45	19941013	PASS	YES		SUBSURF, LIN EVALUATED,OK	
			R00000405	C00000293	BF-90	UT-45L	19941014	PASS	YES			
			R00000405	C00000222	BF-90	UT-45L	19941024	PASS	YES		SUBSURF, LIN EVALUATED,OK	
			R00000405	C00000223	BF-107	UT-45L	19941014	PASS	YES			
			R00000405	C00000223	BF-107	UT-45L	19941019	PASS	YES			
			R00000405	C00000292	BF-90	UT-60L	19941024	PASS	YES			

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISM M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M POST OUTAGE EXAMINATION RESULTS REPORT M
M EXAM REQUIREMENT : 86E-02 CYCLE : 07 M
M INTERVAL : 02 PERIOD : 1 M
*****
M SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068 M
M ISOMETRIC NUMBER : ISI-0270-C SHEET : 02 M
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2RC1	PIPE -SAFEEND	B-F B5. 10	R00000281	C00000242	BF-72	PT	19941019	PASS	YES			
			R00000331	C00000245	BF-70	UT-45	19941019	PASS	YES			
			R00000331	C00000245	BF-70	UT-45	19941019	PASS	YES			
			R00000331	C00000243	BF-72	UT-45L	19941019	PASS	YES			
			R00000331	C00000244	BF-70	UT-45L	19941019	PASS	YES			

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED



to - 0164  
10/10/10

0164 10/10/10

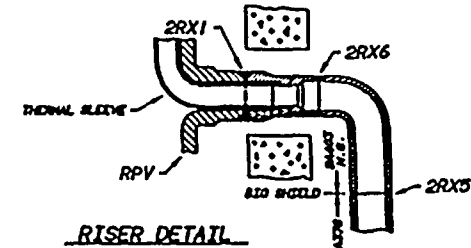
REFERENCE DRAWING

47N2408-8,9 (S.E. A.)  
 GE 769E963 (S.E. REPL.)  
 TVA 47K1844-2  
 GE 153P754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHN-2068-C ALL SHEETS

MATERIAL SPECIFICATIONS:

A358, TP 304  
 4" X 0.337" NOM WALL THK. (SS)  
 12" X 0.569" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE  
 2" SCH. 80 A-376, TP304  
 2" FITTINGS A-182, F304  
 SAFE END REPLACEMENT  
 12" X 0.688 NOM. WALL THK. (SS)  
 SA 403 WP 316 N.G.

ASME CC-1 (EQUIVALENT)



RISER DETAIL

- NOTES: 1. WELDS 2RX1 ARE THE NOZZLE TO SAFE-END WELDS  
 2. ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.  
 3. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-ID (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)

THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHERMOST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)

4. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

04	REV	6-3-92	DEL ONE BC NOTE FROM VALVE IDENTIFIER AND 4" NOTE	100	100	100
03	REV	3-13-92	ADD LONGSEAM IDENTIFICATION NOTES	100	100	100
02	REV	9-20-91	DEL CABLE, ADD 8" LDR, MTL. SPEC.	100	100	100
01	REV	3-24-89	REWORK INTO TWO SHEETS	100	100	100
REV	BY	DATE	DESCRIPTION	CHK'D	DATE	APP'D
HARDWARE, TBN BORD		SOFTWARE, CADWAT	LICOR, ISTOP			

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT

UNIT 2

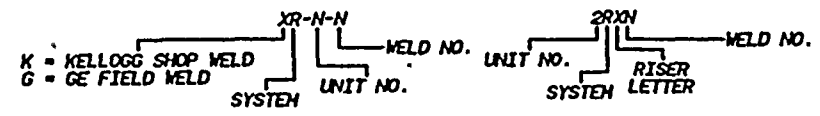
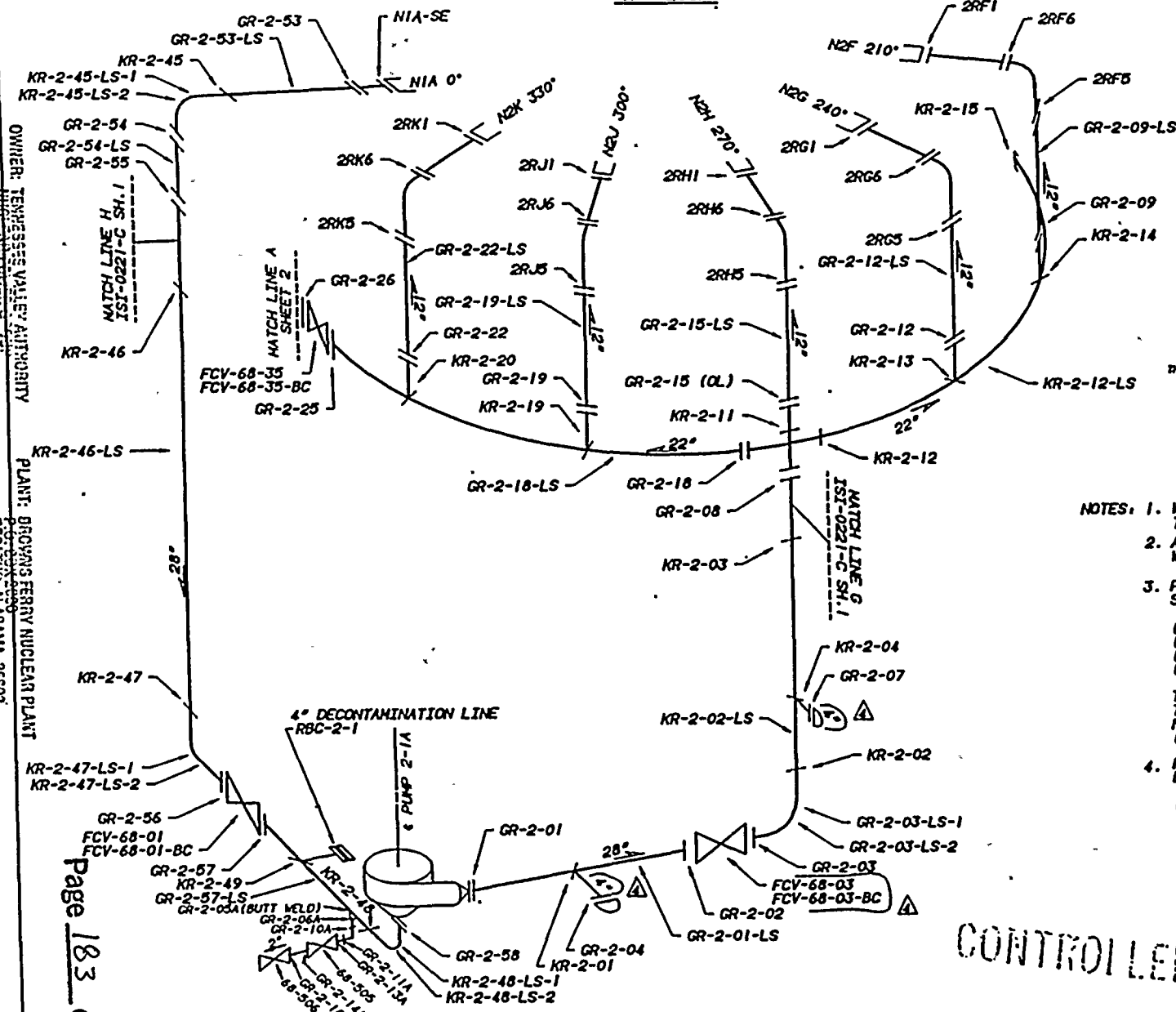
RECIRCULATION SYSTEM

WELD LOCATIONS

DRAWN: #18	SUBMITTED	APPROVED	SCALE: N/A
DATE: 5-10-92	DATE: 5-10-92	DATE: 5-10-92	REVISION: 1 OF 2
DESIGNED: JES	EDC	GLB	DRAWING NO. ISX-0270-C
DATE: 6-11-92			

CONTROLLED

A - LOOP



UNIT: TWO  
 OWNER: TENNESSEE VALLEY AUTHORITY  
 PLANT: BROWNS FERRY NUCLEAR PLANT  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975

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1950

1950

REFERENCE DRAW.  
 47W2408-B,9 (S.E. REPLACEMENT)  
 GE 769E963 (S.E. REPLACEMENT)  
 TVA 47K1544-2  
 GE 153F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CFN-2068-C ALL SHEETS

MATERIAL SPECIFICATIONS:  
 A358, TP 304  
 4" X 0.337" NOM. WALL THK. (SS)  
 12" X 0.569" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE  
 2" SCH. 80, A376, TP304  
 2" FITTINGS A182, F304  
 SAFE END REPLACEMENT  
 12" X 0.688" NOM. WALL THK. (SS)  
 SA 403 MP 316 N.G.  
 ASME CC-1 (EQUIVALENT)

- NOTES:
- ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.
  - PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-ID (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)  
 THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHERMOST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)
  - PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

CONTROLLED

REV	BY	DATE	DESCRIPTION	CHK'D	APP'D
04	PH	1-1-79	ADD 4" LIME SIZES		
03	PH	3-13-72	ADD LONGSEAM IDENTIFIER NOTES MODIFY LONGSEAM WELD ID'S	APG	JES
02	PH	9-20-71	DEL. CABLE, ADD 2" LIME, INTL. SPEC.	JAA	JES
01	PH	11-9-69	CORRECT VALVE NO. FCV-68-79	JES	EDC

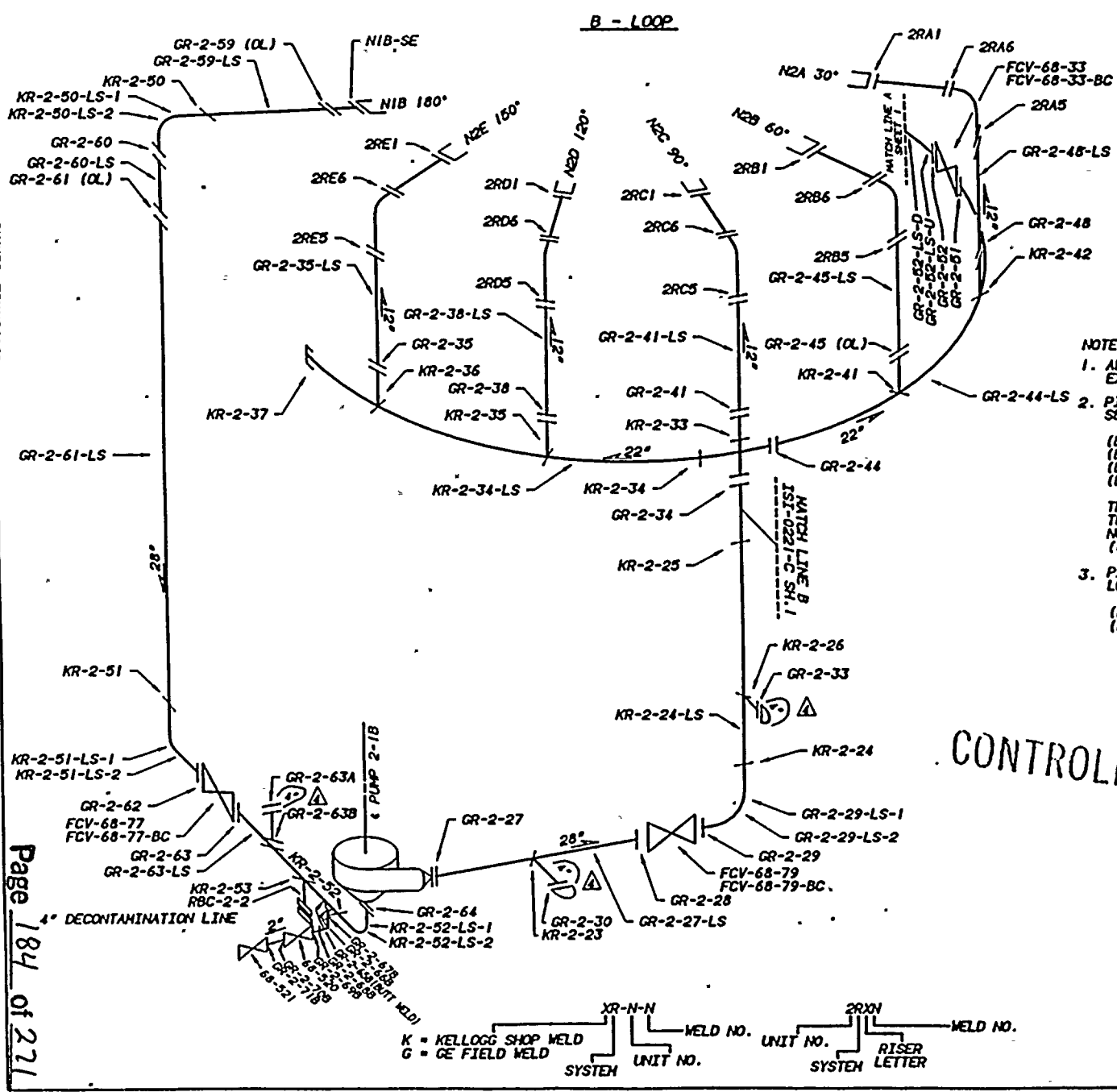
  

HARDWARE	TRN	SOFT	CAOH	LIBR	TESTOP

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 RECIRCULATION SYSTEM  
 WELD LOCATIONS

DRAWN	DATE	SCALE	APPROVED	DATE	SHEET	TOTAL
PH	3-28-79		EDC	12-81	1	1

UNIT NO. SYSTEM MELD NO.  
 RISER LETTER MELD NO.



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  
 UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 Page 184 of 221  
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 NUTECH TENNESSEE VALLEY AUTHORITY PRISIM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : ISI-0271-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
TCS-2-417	SAFEEND -CS NOZ	B-F B5. 10	R00000241			PT	19941015	PASS	YES			
			R00000313	C00000210	BF-65	UT-45	19941018	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000313	C00000214	BF-106	UT-45	19941016	PASS	YES			
			R00000313	C00000211	BF-65	UT-45	19941018	PASS	YES			
			R00000313	C00000213	BF-106	UT-45L	19941016	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000313	C00000212	BF-65	UT-45L	19941016	PASS	YES		GEOMETRIC	NON-RELEVANT
			R00000313	C00000209	BF-65	UT-60L	19941018	PASS	YES		GEOMETRIC	NON-RELEVANT

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  
 UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISIM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : ISI-0292-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
CRDN-2-0239-BC	BOLTS	B-G-2 B7.80	R00000375			VT-1	19941021	PASS	YES			
CRDN-2-0619-BC	BOLTS	B-G-2 B7.80	R00000383			VT-1	19941021	FAIL	YES		CRACKS	REPLACED
CRDN-2-0627-BC	BOLTS	B-G-2 B7.80	R00000430			VT-1	19941021	FAIL	YES		CRACKS	REPLACED
CRDN-2-1023-BC	BOLTS	B-G-2 B7.80	R00000374			VT-1	19941021	PASS	YES			
CRDN-2-1031-BC	BOLTS	B-G-2 B7.80	R00000376			VT-1	19941021	PASS	YES			
CRDN-2-1035-BC	BOLTS	B-G-2 B7.80	R00000377			VT-1	19941021	PASS	YES			
CRDN-2-1439-BC	BOLTS	B-G-2 B7.80	R00000378			VT-1	19941021	PASS	YES			
CRDN-2-1455-BC	BOLTS	B-G-2 B7.80	R00000380			VT-1	19941021	PASS	YES			
CRDN-2-1811-BC	BOLTS	B-G-2 B7.80	R00000381			VT-1	19941021	PASS	YES			
CRDN-2-1819-BC	BOLTS	B-G-2 B7.80	R00000379			VT-1	19941021	PASS	YES			
CRDN-2-1835-BC	BOLTS	B-G-2 B7.80	R00000384			VT-1	19941021	FAIL	YES		CRACKS	REPLACED

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04100





1950

1950

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISIK  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : ISI-0292-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
CRDN-2-1839-BC	BOLTS	B-G-2 B7.80	R00000386			VT-1	19941021	FAIL	YES		CRACKS	REPLACED
CRDN-2-1859-BC	BOLTS	B-G-2 B7.80	R00000382			VT-1	19941021	PASS	YES			
CRDN-2-2219-BC	BOLTS	B-G-2 B7.80	R00000385			VT-1	19941021	FAIL	YES		CRACKS	REPLACED
CRDN-2-2659-BC	BOLTS	B-G-2 B7.80	R00000373			VT-1	19941021	PASS	YES			
CRDN-2-3459-BC	BOLTS	B-G-2 B7.80	R00000429			VT-1	19941021	PASS	YES			
CRDN-2-3823-BC	CH BLTG	B-G-2 B7.80	R00000371			VT-1	19941021	PASS	YES			
CRDN-2-3831-BC	BOLTS	B-G-2 B7.80	R00000372			VT-1	19941021	PASS	YES			
CRDN-2-4247-BC	BOLTS	B-G-2 B7.80	R00000369			VT-1	19941021	PASS	YES			
FLUXHON-2-23-BC	BOLTS	B-G-2 B7.10	R00000293			VT-1	19941023	PASS	YES			

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISIK  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : ISI-0408-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
RCH-2-1C	CIRC HW	B-A B1.21	R00000168	C00000079	BF-19	UT-0	19941005	PASS	YES		SPOT IND.	NON-RELEVANT
			R00000168	C00000078	BF-19	UT-45	19941005	PASS	YES		SPOT IND.	NON-RELEVANT
			R00000168	C00000080	BF-19	UT-60	19941006	PASS	YES		SPOT IND.	NON-RELEVANT
											SPOT IND.	NON-RELEVANT
											SPOT IND.	NON-RELEVANT

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

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

00187

1954

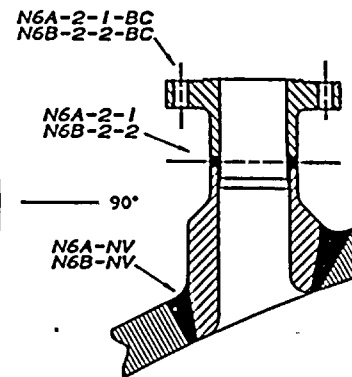
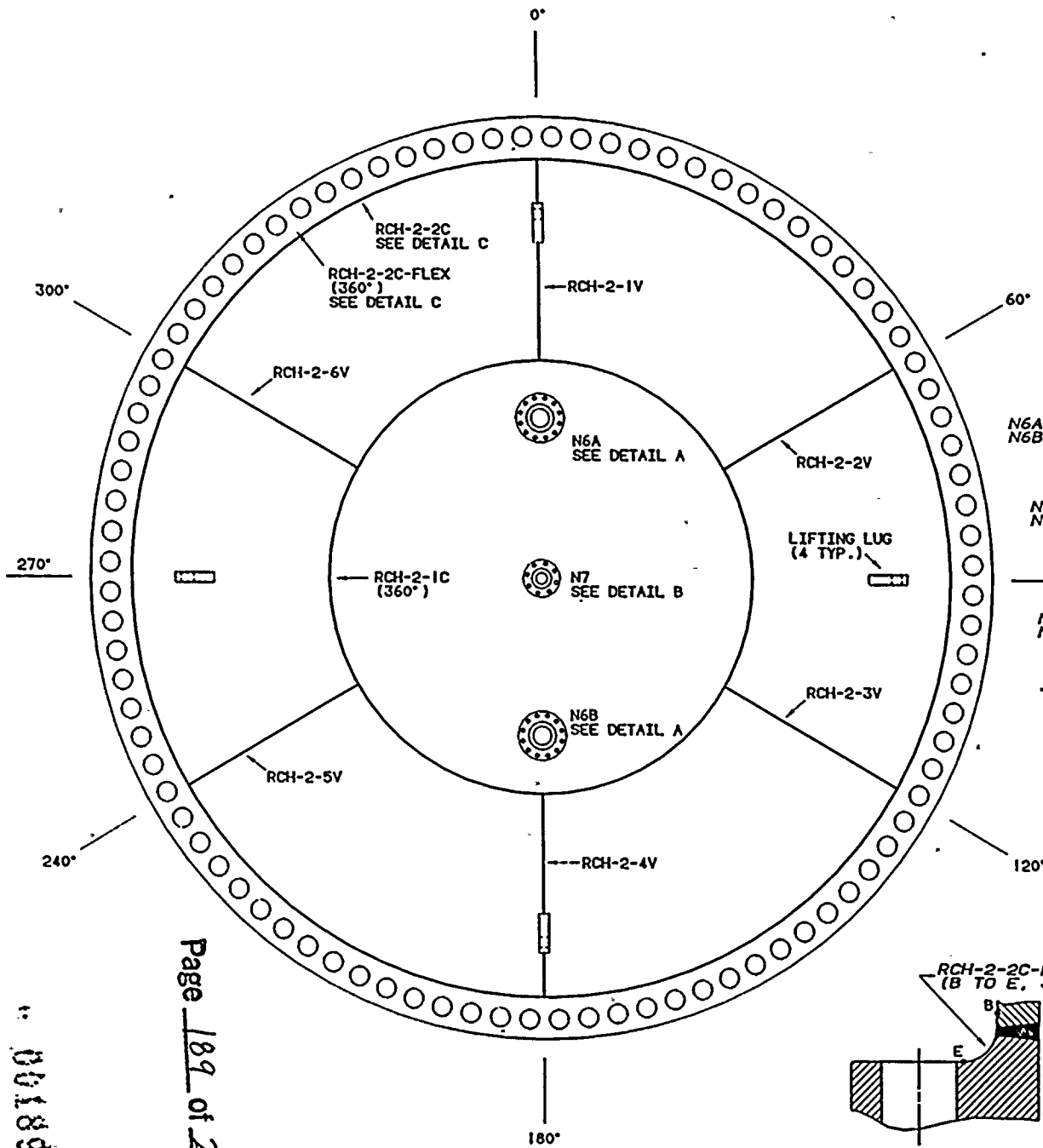
1954



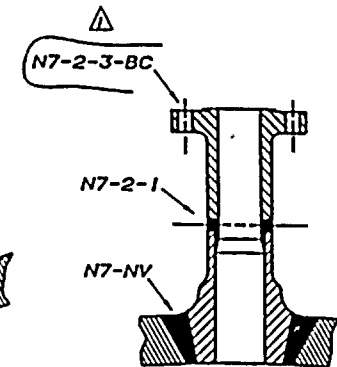


REFERENCE DRAWINGS  
 B&W 122876  
 B&W 122877  
 NOTE: THIS DRAWING SUPERSEDES  
 ISI-0294-A SH 1

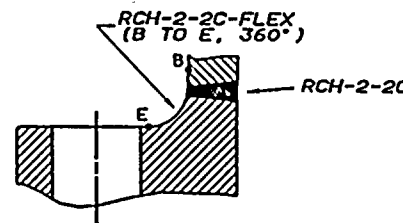
MATERIAL SPECIFICATIONS  
 CLOSURE HEAD DOME/SEGMENTS  
 CS MN/MO  
 N-7  
 NOZZLE - A508 CL.2 (MN-MO)  
 LONG WELD NECK - SA-105 GR.II CS  
 N6A,N6B  
 NOZZLE - A508 CL.2 (MN-MO)  
 LONG WELD NECK - SA-105 GR.II CS  
 ASME CC-1 (EQUIVALENT)



DETAIL A



DETAIL B



DETAIL C

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

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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

1	PH	REVISE NOZZLE N7 BOLTED CONNECTION ID	DATE	3-13-75
REV. BY	CHECKED	SUBMITTED	APPROVED	DATE
HARDWARE: IBM 5043	SOFTWARE: CADAM	USER: ISTCP		
TENNESSEE VALLEY AUTHORITY				
BROWNS FERRY NUCLEAR PLANT				
UNIT 2				
CLOSURE HEAD ASSEMBLY				
WELD LOCATIONS				
DRAWN: PH	SUBMITTED	APPROVED	SCALE: NIS	
DATE: 3-13-75	DATE: 3-13-75	DATE: 3-13-75	SHEET 01 OF 01 SHEETS	
CHECKED: MFC	DATE:	DATE:	DRAWING NO.	REV
			ISI-0408-C01	





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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : N/A SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-SI-3.3.01A	LEAKAGE	B-P B15.70	R00000459			VT-2	19941110	PASS	YES			

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 86E-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RWCUS REACTOR WATER CLEANUP SYSTEM - 069  
 ISOMETRIC NUMBER : ISI-0272-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DRWC-2-01	VALVE -PIPE	B-J B9.11	R00000134			PT	19941005	PASS	YES			
			R00000157	C00000063	BF-31	UT-45	19941006	PASS	YES			
			R00000157	C00000064	BF-31	UT-45L	19941006	PASS	YES		GEOMETRIC	NON-RELEVANT
DRWC-2-01A	TEE -VALVE	B-J B9.11	R00000135			PT	19941005	PASS	YES			
			R00000154	C00000063	BF-31	UT-45	19941006	PASS	YES	ISI2-4		
			R00000154	C00000064	BF-31	UT-45L	19941006	PASS	YES	ISI2-4		
DRWC-2-03	VALVE -PIPE	B-J B9.11	R00000136			PT	19941005	PASS	YES			
			R00000144	C00000055	BF-31	UT-45	19941005	PASS	YES			
			R00000144	C00000056	BF-31	UT-60L	19941005	PASS	YES		GEOMETRIC	NON-RELEVANT

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  
 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED



1957

1957

REFERENCE DRAWINGS  
 CRD-2-005  
 RCIC-2-004  
 RWC-2-001  
 47W335-14, -17

NOTE:  
 THIS DRAWING SUPERSEDES CHN-2075-C  
 AND CHN-2072-C (ALL SHEETS)

MATERIAL SPECIFICATIONS

STAINLESS STEEL

FITTINGS

6" SA403 WP316NG SCH. 80 SS

PIPING

6" SA376 TP316NG SCH. 80 SS

CARBON STEEL

4" SCH. 80 A-333, GRI (SEAMLESS) CS

6" X 0.562" NOM WALL SCH. 120 CS

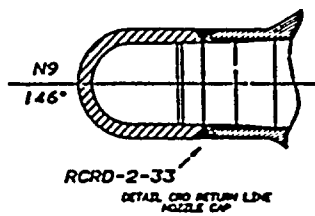
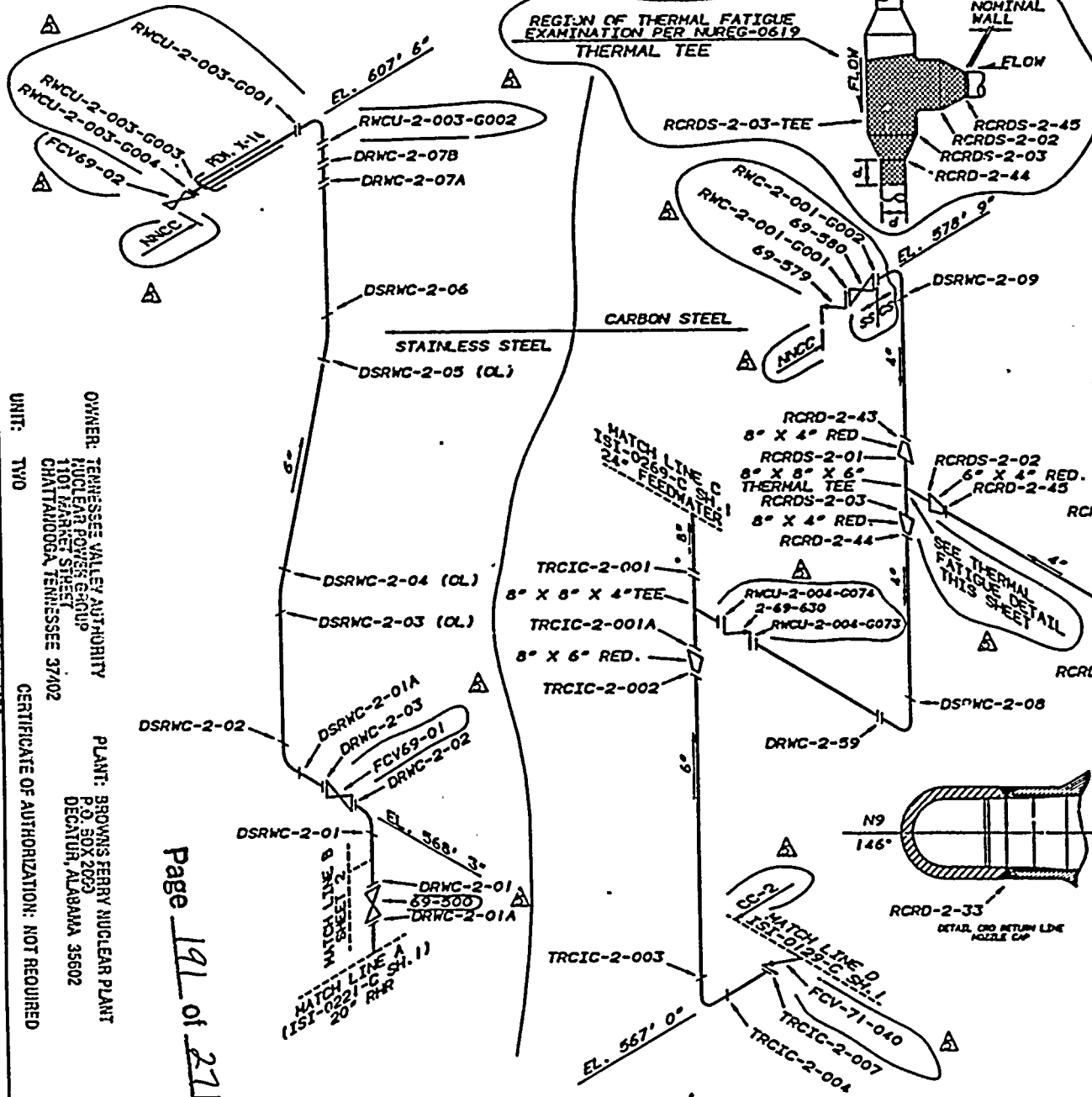
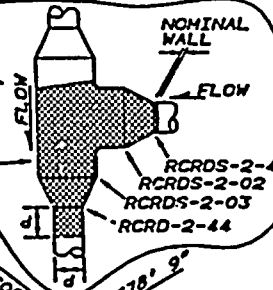
8" X 0.593" NOM WALL SCH. 100 CS

VALVE

2-69-630 SA182 F316

ASME CC-1 (EQUIVALENT)

REGION OF THERMAL FATIGUE  
 EXAMINATION PER NUREG-0619  
 THERMAL TEE



REV.	BY	CHKD.	DATE	DESCRIPTION
05	PHB	JCS	6-11-93	REVISION TO DRAWING TO ADD REV. 185 AND 186 TO RWC-2-001 THROUGH 003
04	PHB	JCS	6-11-93	CONNECT BOLTED CONNECTIONS, ADD FATIGUE DETAIL, CLASS BOUNDARY NOTATION, REV. VALUE 2-49-436 AND MATERIAL SPEC., REPLACE DRWC-2-001 WITH RWC-2-004-G074 AND WELD RWC-2-004-G075, REVISE PIP. #118 ASSUME 1" RADIUS - CLS WELDS DRWC-2-004-G08, -004-G05, -008, CONN. #075 WITH WELDS RWC-2-003-G001, -0002, -0003, -0004, TRCIC-2-003 WITH PIP. #001-0001, DRWC-2-004 WITH RWC-2-001-G004, ADD MATERIAL TRANSITION TO VALVE 69-200
03	PHB	JCS	6-23-90	REV. NO. 008, NO.
02	PHB	JCS	9-20-91	20. CHANGE, ADD MATERIAL & MATCH LINE
01	PHB	JCS	10-18-89	REVISE #118 TO DRWC-2-01
00	PHB	JCS	9-22-89	ADD HYDR. RET. LINE AND CONNECT MATCH LINES

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 REACTOR WATER CLEAN UP, RCIC, AND CRD  
 WELD IDENTIFICATION

DRAWN: PHB	DATE: 6-9-88	SCALE: NTS	CADWIT/STP
CHECKED: JCS	APPROVED:	SHEET 01 OF 03	REV
SUBMITTED: EDC		CS	ISI-0272-C05

OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1107 PARK STREET  
 CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2020  
 DECATUR, ALABAMA 35602

UNIT: TWO

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B455H0056	VSPRING	F-A F1.20C	R00000067			VT-3	19940613	FAIL	YES		LOOSE, HISS. INC SETTING	BLTNG TIGHTN COMP RESET
2-47B455H0057	VSPRING	F-A F1.20C	R00000079			VT-3	19940613	PASS	YES			
2-47B455H0059	VSPRING	F-A F1.20C	R00000068			VT-3	19940613	FAIL	YES		INC SETTING	COMP RESET
2-47B455H0062	VSPRING	F-A F1.20C	R00000069			VT-3	19940613	FAIL	YES		INC SETTING	COMP RESET
2-47B455H0065	VSPRING	F-A F1.20C	R00000080			VT-3	19940613	PASS	YES			

FOR 'FAIL' EXAM RESULT REFER TO NIS-2  
 EXREQ R01-02 FOR 'PASS' EXAM. QTR  
 1-12-95

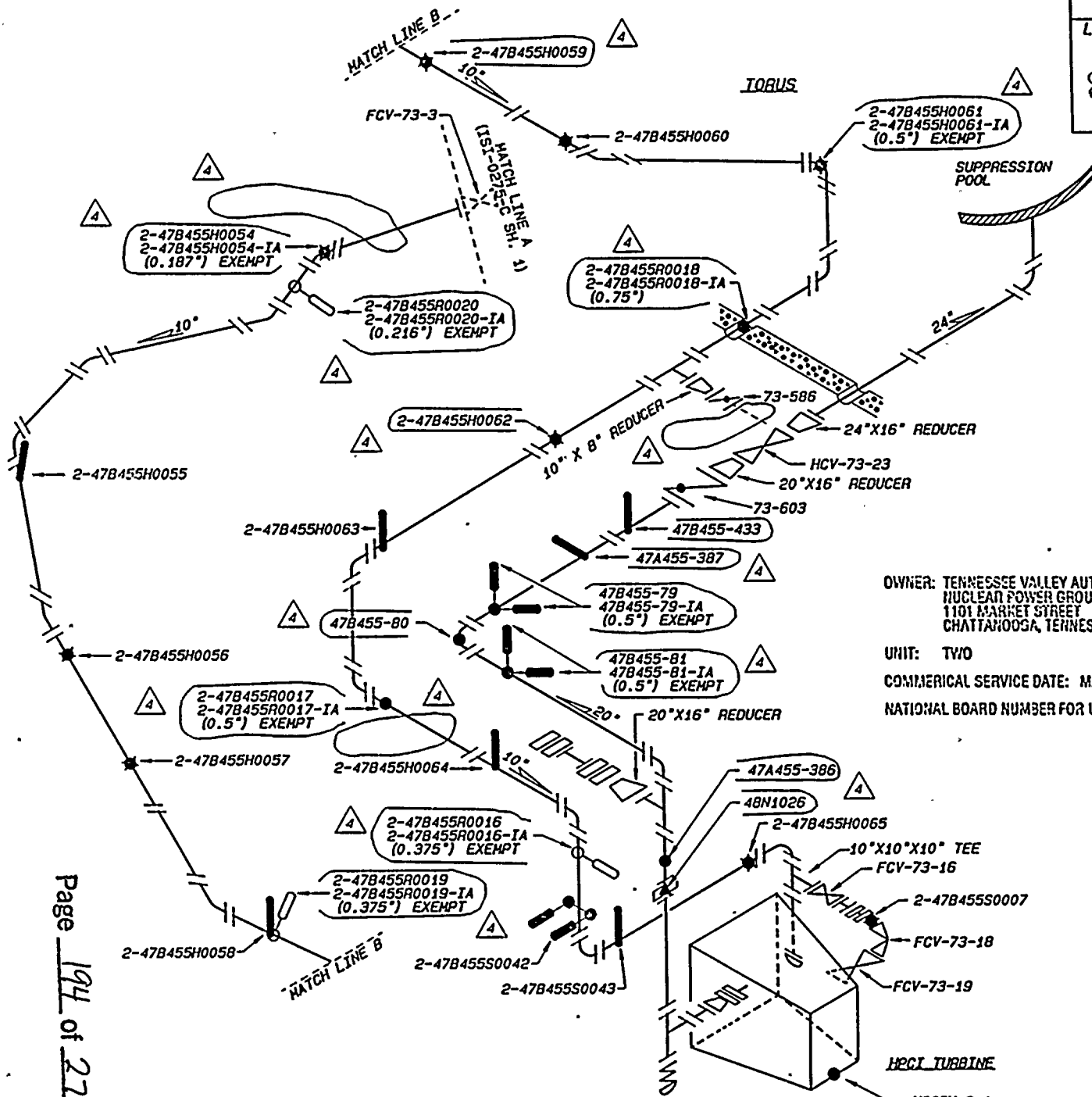
FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B408S0064	C FORCE	F-A F1.40C	R00000187			VT-3	19941011	ENGR	YES		INC SETTING	ANAL OK ACCP
2-47B408S0065	C FORCE	F-A F1.40C	R00000163			VT-3	19941006	PASS	YES			
2-47B408S0066	C FORCE	F-A F1.40C	R00000145			VT-3	19941006	FAIL	YES		PHYSIC DHC	COMP RESET
2-47B408S0081	H SNUB	F-A F1.10C	R00000164			VT-3	19941006	PASS	YES			

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  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED



REFERENCE DRAWINGS  
 47N455-H-6, 7, 203  
 ISI-0128-C (SH. 1) WELD MAP

LEGEND  
 ● RIGID HANGER  
 ○ VARIABLE SUPPORT  
 ○ HYDRAULIC SNUBBER  
 ○ MECHANICAL SNUBBER  
 ▲ ANCHOR  
 ▬ RIGID STRUT  
 ASME CC-2 (EQUIVALENT)



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

UNIT: TV1D  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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

04	PH	3-92	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING. DELETE SUPPORTS OUTSIDE BOUNDARY	GLB	1/12
03	PH	2-13-91	OK. CHECK. ADD WALKDOWN DATA	JAL	2/3
02	PH	9-12-89	REVISED MATCH LINE A	JES	10/8
01	PH	5-28-87	DESIGNED & DESIGNED FOR PAI/SH	JES	10/8
	REV BY	DATE	DESCRIPTION	OK'D BY	APP. DATE
	TER 4129		SOFTWARE: TECHNICAL	BY	10/8
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT # 2					
HIGH PRESSURE COOLANT INJECTION SYSTEM					
SUPPORT LOCATIONS					
DRAWN KEY	SUBMITTED	APPROVED	SCALE: NIS		
DATE: 2-19-84	DATE: ---	DATE: ---	SHEET 01 OF 03 SHEETS		
CHECKED: JIL			DRAWING NO.		
DATE: ---		GLB	ISI-0130-C	104	

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REFERENCE DRAWINGS:

2-47N2408-8.9 (S.E. REPI "NT")  
 GE 769E963 (S.E. REPLAC  
 TVA 47K1544-2  
 2-153F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHN-2068-C ALL SHEETS

LEGEND:

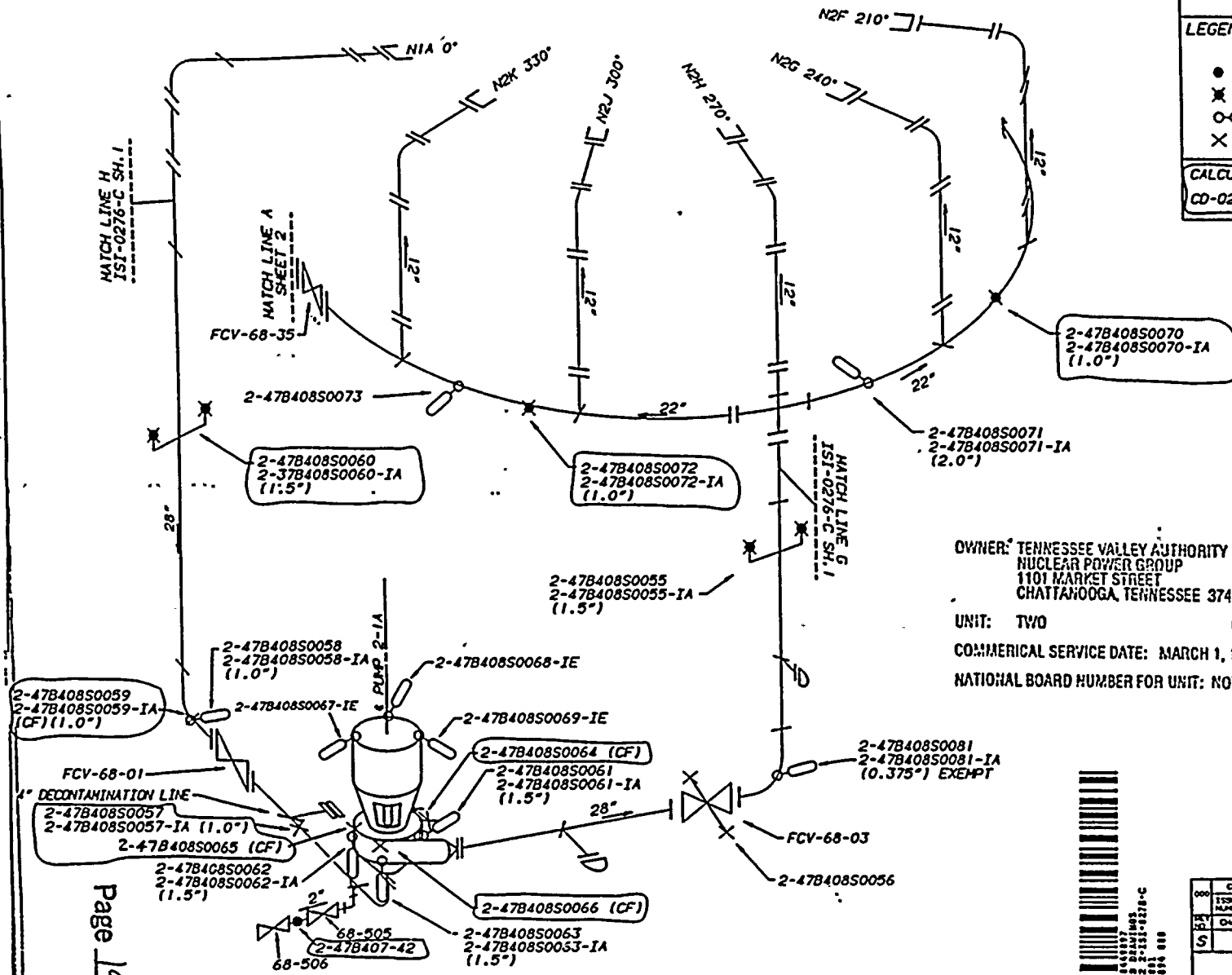
- RIGID HANGER
- ✕ VARIABLE SUPPORT
- HYDRAULIC SNUBBER
- ✕ CONSTANT FORCE SUPPORT (CF)

CALCULATION BRANCH/PROJECT IDENTIFIER:

CD-02068-871118

ASME CC-1 (EQUIVALENT)

A - LOOP



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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2060  
 DECATUR, ALABAMA 35602

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

CONTROLLED



CDV/ISI	11-10-94	REP	JJC	IVA	DISN	GAO	EC	MAC	WEL
ISSUED TO CREATE CDV, SUPPLIES AND ISI-0276-C, REVISED SUPPORT PURPOSES AND ADDED CALCULATION METHODOLOGY (1181 REVISION)									
REV	CHANGE NO.	DATE	BY	CHK	DESIGN	BY	APPRO	APPRO	ISSD
S									
TENNESSEE VALLEY AUTHORITY									
BROWNS FERRY NUCLEAR PLANT UNIT 2									
RECIRCULATION SYSTEM SUPPORT LOCATIONS									
DRAWN: PAB	SUBMITTED	APPROVED	SCALE: NTS						
DATE: 6-22-77	DATE: 6-10-78	DATE: 11-20-78	SHEET 1 OF 2						
DESIGNED BY: EDC	GLB	2-151-0276-C	CDV						
DATE: 6-10-78									

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISIH  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : A02-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073  
 ISOMETRIC NUMBER : ISI-0130-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B455H0054	VSPRING	F-A F1.20C	R00000236			VT-3	19941015	PASS	YES			
2-47B455S0007	VSPRING	F-A F1.20C	R00000234			VT-3	19941015	PASS	YES			

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISIH  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : A02-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073  
 ISOMETRIC NUMBER : ISI-0275-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B455H0048	HVSPC 2	F-A F1.10C	R00000215			VT-3	19941013	PASS	YES			
2-47B455H0152	HVSPC 2	F-A F1.10C	R00000199			VT-3	19941012	PASS	YES			

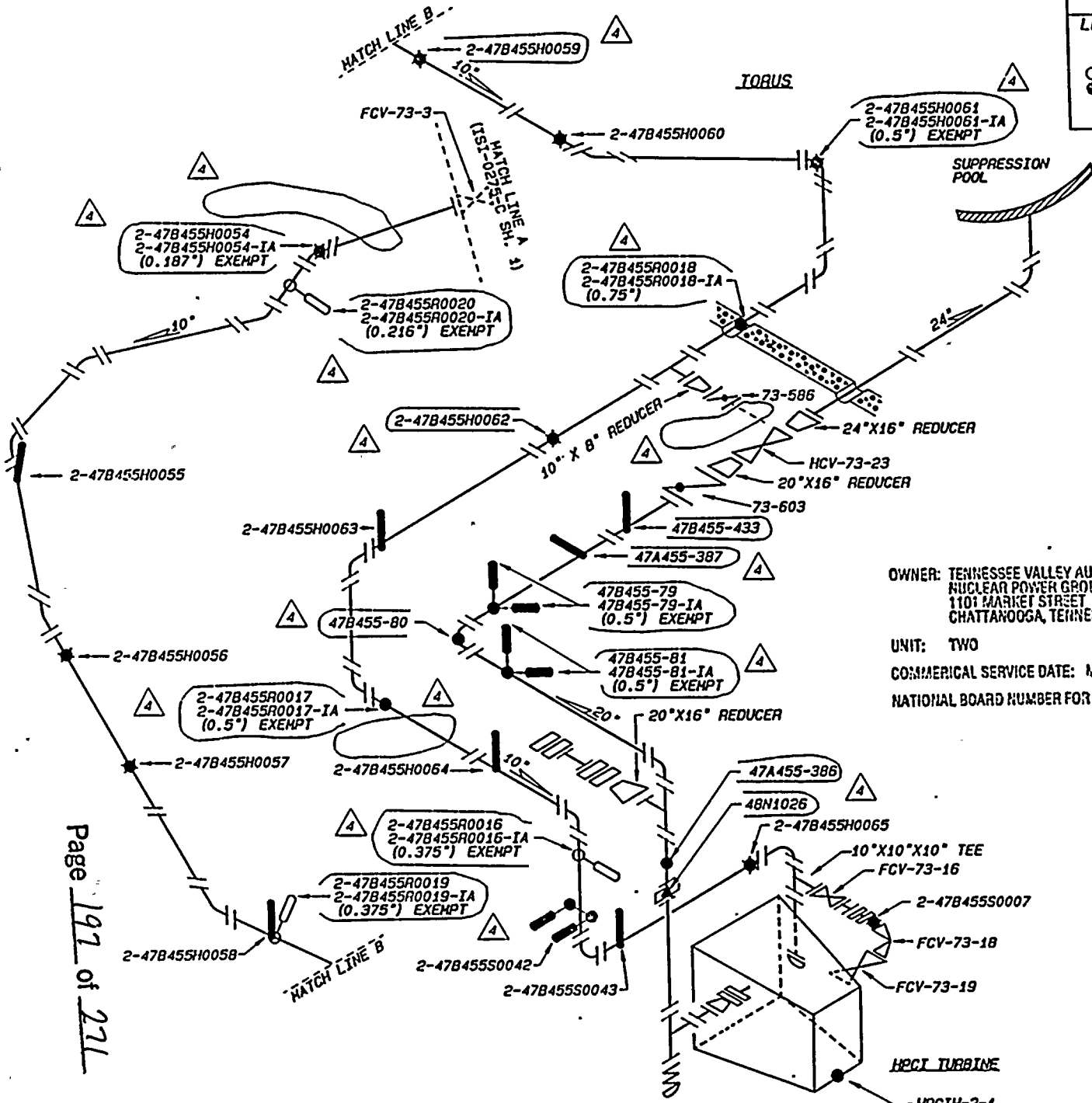
OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402  
 PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2000  
 DECATUR, ALABAMA 35602  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL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



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REFERENCE DRAWINGS  
 47N455-H-6, 7, 203  
 ISI-0128-C (SH. 1) WELD MAP

LEGEND  
 ● RIGID HANGER  
 ○ VARIABLE SUPPORT  
 ○ HYDRAULIC SNUBBER  
 ○ MECHANICAL SNUBBER  
 ▲ ANCHOR  
 ▬ RIGID STRUT  
 ASME CC-2 (EQUIVALENT)



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

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REV	DATE	DESCRIPTION	BY	CHKD	APP'D
04	11-13-92	REVISE SUPPORT MEMBERS TO MATCH NEW MEMBERS FROM ENGINEERING. DELETE SUPPORTS OUTSIDE BOUNDARY.			
03	12-11-91	DEL. CADOLE. ADD WALKDOWN DATA.			
02	8-18-88	REVISED MATCH LINE A.			
01	5-28-87	PROGRAM & REVISED FOR PRINTING.			
00	08-11-87	DESCRIPTION			

TENSSESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT # 2  
 HIGH PRESSURE COOLANT INJECTION SYSTEM  
 SUPPORT LOCATIONS

DATE	BY	DATE	BY	SCALE	NO. OF SHEETS
1-19-84					01 OF 03 SHEETS
01/20/84					
			GLB		ISI-0130-C 04

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00157

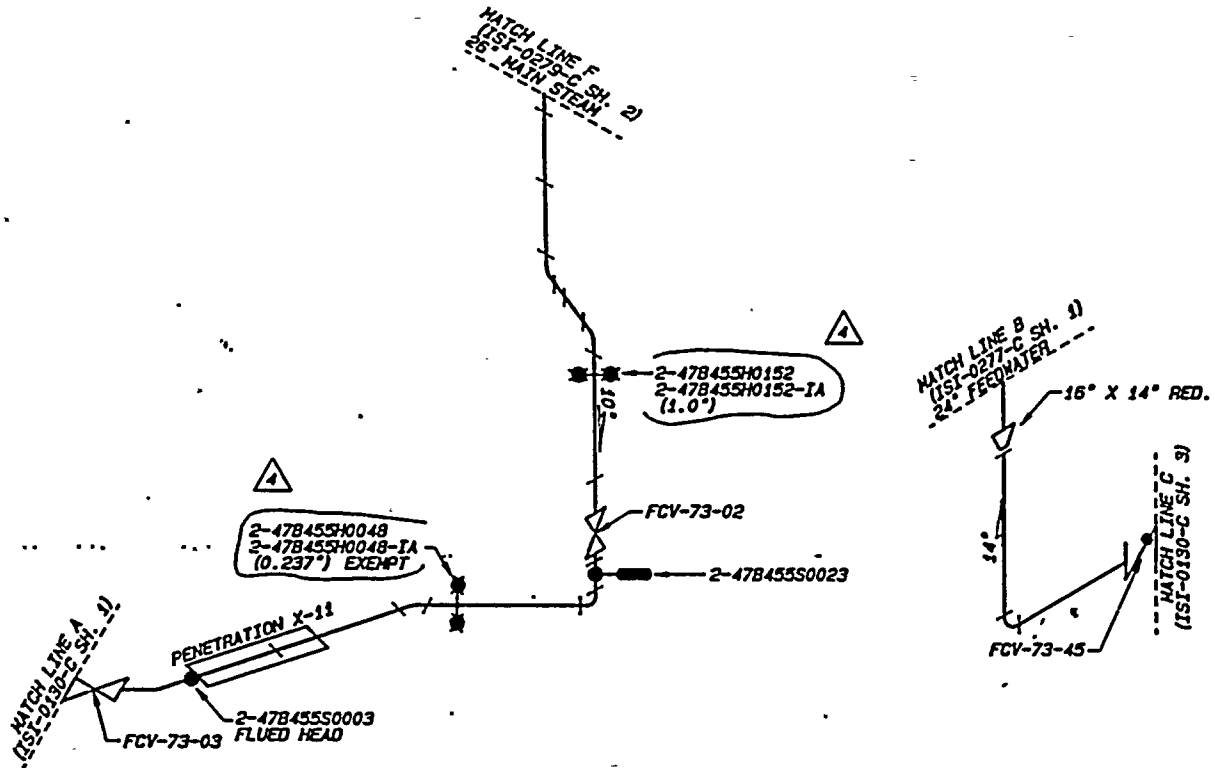
REFERENCE DRAWINGS

47N455-4  
 ISI-0273-C (SH. 1) YIELD MAP  
 NOTE: THIS DRAWING SUPERCEDES CHN-2083-C  
 ALL SHEETS.

LEGEND:

- RIGID HANGER
- ⊕ VARIABLE SUPPORT
- HYDRAULIC SNUBBER
- MECHANICAL SNUBBER

ASME CC-1 (EQUIVALENT)



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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2500  
 DECATUR, ALABAMA 35602

UNIT: TWO      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

04	REV	1-1-72	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM DRAWINGS	ASB	WJH
03	REV	2-11-71	ISSUE COOLANT INJECTION SYSTEM ADD EN	JUL	WJH
02	REV	1-28-71	CORRECT SUPPORT NO. ERROR, ADD TEST	JUN	WJH
01	REV	8-28-68	CORRECT MATCH LINES AND ADD SUPPORT NUMBER AND ADD NOTE	JES	EDC GLB
REV BY	DATE	DESCRIPTION	CHK'D BY	DATE	
WJH	1-2-72	ISSUE CHN-2083-C SH. 1	WJH	1-2-72	

TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE COOLANT INJECTION					
SUPPORT LOCATIONS					
DATE	APP	DESIGNED	APPROVED	SCALE	HTS
DATE	8-12-71	DATE	8-12-71	SHEET	01 OF 01 SHEETS
DESIGNED	EDC	APPROVED	GLB	DRAWING NO.	REV
DATE	8-12-70	DATE	8-12-70	ISI-0273-C	104

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 00198





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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : A02-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0278-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B408S0057	C FORCE	F-A Fl.40C	R00000181			VT-3	19941010	ENGR	YES	INC SETTING	ANAL OK ACCP
2-47B408S0059	C FORCE	F-A Fl.10C	R00000445			VT-3	19941026	PASS	YES		

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  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : A02-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0278-C SHEET : 02  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B408S0041	C FORCE	F-A Fl.10C	R00000419			VT-3	19941026	PASS	YES		
2-47B408S0043	C FORCE	F-A Fl.10C	R00000182			VT-3	19941010	ENGR	YES	INC SETTING	ANAL OK ACCP
2-47B408S0049	C FORCE	F-A Fl.40C	R00000189 R00000452			VT-3 VT-3	19941011 19941110	ENGR PASS	YES YES	INC SETTING	ANAL OK ACCP
2-47B408S0050	C FORCE	F-A Fl.10C	R00000190			VT-3	19941011	ENGR	YES	INC SETTING	ANAL OK ACCP
2-47B408S0051	C FORCE	F-A Fl.40C	R00000188			VT-3	19941011	FAIL	YES	LOOSE BOLTIN	BLTNG TIGHTN

FOR 'FAIL' EXAM RESULT REFER TO NIS-2  
 EXREQ R02-02 FOR PASS EXAM. JTR  
 1-12-95



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00100

A - LOOP

REFERENCE DRAWINGS:

2-47W2408-8.9 (S.E. REPI "NT")  
 GE 769E963 (S.E. REPLAC  
 IVA 47K1544-2  
 2-153F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHN-2068-C ALL SHEETS

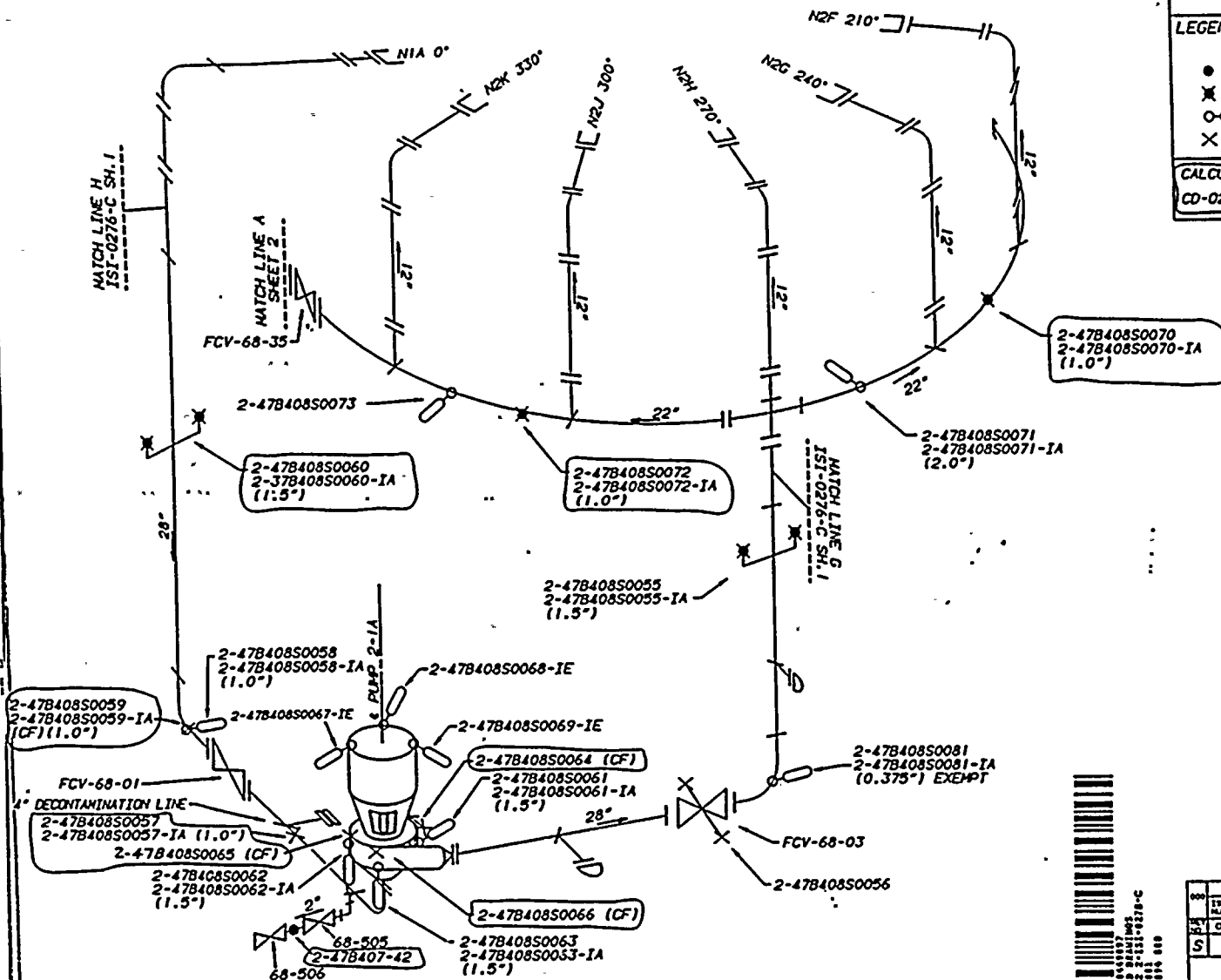
LEGEND:

- RIGID HANGER
- ✱ VARIABLE SUPPORT
- HYDRAULIC SNUBBER
- ✕ CONSTANT FORCE SUPPORT (CF)

CALCULATION BRANCH/PROJECT IDENTIFIER:

CD-02068-871118

ASME CC-1 (EQUIVALENT)



CONTROLLED

CD/IST	11-10-94	MPT	JFC	IVA	BSH/GAA	etc	etc
ISSUED TO CREATE CD, SUPERSEDES AND IS-0278-C-1 (REVISED SUPPORT NUMBERS AND ADDED CALCULATION REFERENCE, 1151 REVISION)							
CHANGE NO	DATE	DATE	DATE	DATE	DATE	DATE	DATE
S							
TENNESSEE VALLEY AUTHORITY							
BROWNS FERRY NUCLEAR PLANT UNIT 2 RECIRCULATION SYSTEM SUPPORT LOCATIONS							
DRAWN BY	EDC	BLW/HTB	APPROVED	GLB	SCALE	NPS	
DATE	7-27-87	DATE	2-10-88	DATE	SHEET 1 OF 2 SHEETS		
DESIGNED BY	EDC	GLB	DATE	10-10-87	OPERATING NO.	68V	
DATE	8-10-88				2-IST-0278-C-000		
CD							

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED



10384



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M NUTECH TENNESSEE VALLEY AUTHORITY PRISIH M
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 M
M ISI DATA BASE M
M POST OUTAGE EXAMINATION RESULTS REPORT M
M EXAM REQUIREMENT : A15-02 CYCLE : 07 M
M INTERVAL : 02 PERIOD : 1 M
*****
M SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068 M
M ISOMETRIC NUMBER : ISI-0270-C SHEET : 02 M
*****

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FEATURE NUMBER	COMPONENT DESCRIP.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
FCV-68-33-8C	VALBLTG	B-C-2 B7.70	R00000312			VT-1	19941020	FAIL	YES		PHYSIC DNG	REPLACED

FOR 'FAIL' EXAM RESULT REFER  
 TO NIS-2 EXREQ R19-02 FOR  
 PASS EXAM. JTL  
 1-12-95

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

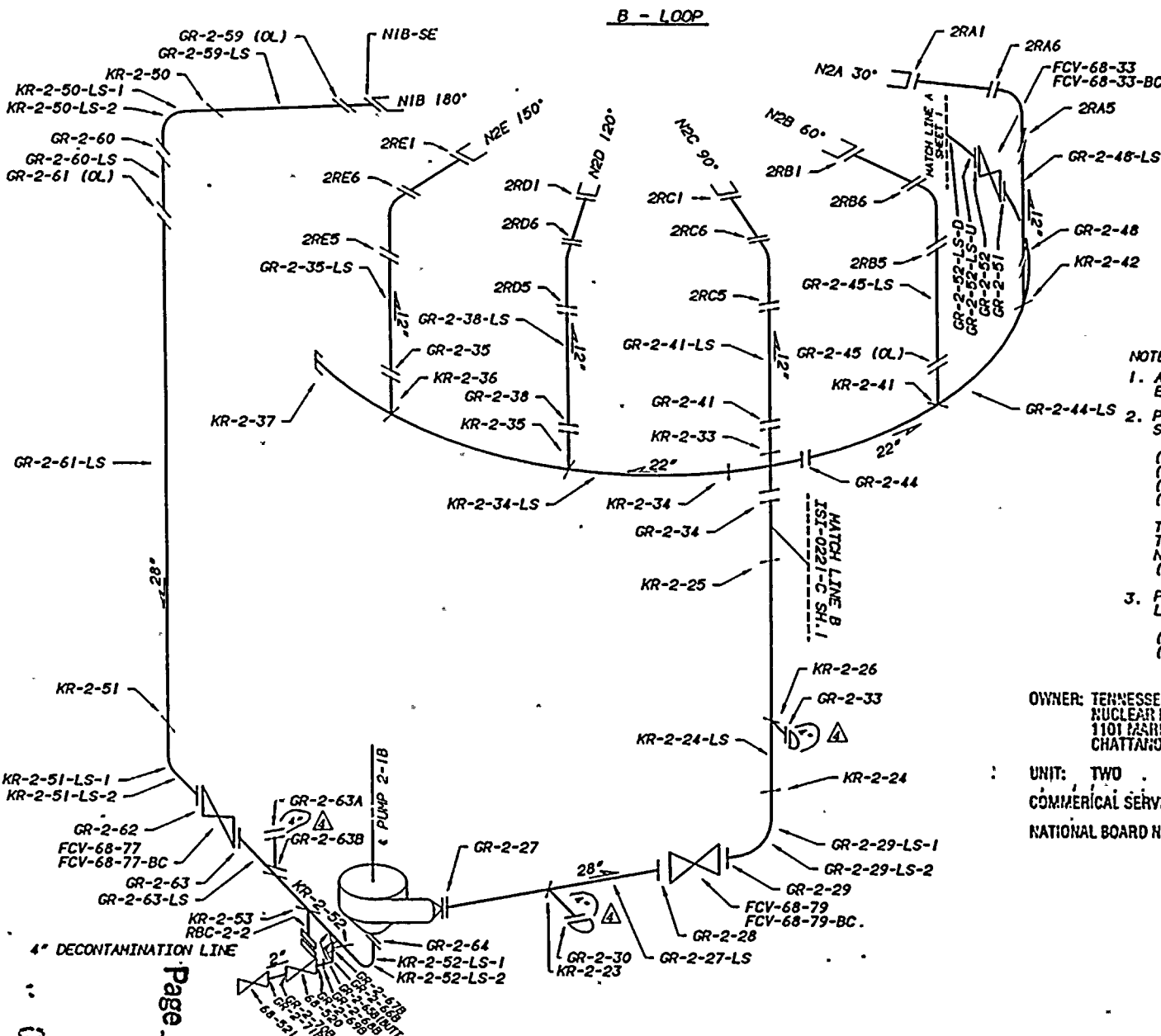
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED



12-11-1964

12-11-1964





**REFERENCE DRAW.**  
 47W2408-8.9 (S.E. INT)  
 GE 769E963 (S.E. REPLACEMENT)  
 TVA 47K1544-2  
 GE 153F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHM-2068-C ALL SHEETS

**MATERIAL SPECIFICATIONS:**  
 A358, TP 304  
 4" X 0.337" NOM WALL THK. (SS)  
 12" X 0.569" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE  
 2" SCH. 80, A376, TP304  
 2" FITTINGS A182.F304  
 SAFE END REPLACEMENT  
 12" X 0.688 NOM. WALL THK. (SS)  
 SA 403 WP 316 N.G.  
 ASME CC-1 (EQUIVALENT)

- NOTES:**
- ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.
  - PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-1D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)  
 THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)
  - PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

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

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

**UNIT:** TWO  
**CERTIFICATE OF AUTHORIZATION:** NOT REQUIRED

**COMMERCIAL SERVICE DATE:** MARCH 1, 1975

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

REV BY	DATE	DESCRIPTION	CHK'D	SLD	APP
04	PHB 2-3-79	ADD 4" LINE SIZES			
03	PHB 3-13-79	ADD LONGSEAM IDENTIFIER NOTES MODIFY LONGSEAM WELD ID'S			
02	PHB 9-20-79	DEL CABLE, ADD 3" LINE, MATL. SPEC.	JAM	JES	GLB
01	PHB 11-9-79	CORRECT VALVE NO. FCV-68-79	JES	EDC	GLB
HARDWARE: IBM 5083		SOFTWARE: CADAM	USER: TSI/CHP		
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT 2					
RECIRCULATION SYSTEM					
WELD LOCATIONS					
DRAWN: PHB	SUBMITTED	APPROVED	SCALE NTS		
DATE: 3-26-79	DATE: 3-2-79	DATE: 3-12-79	SHEET 2 OF 2 SHEET(S)		
CHECKED: JES	EDC	GLB	DRAWING NO. REV		
DATE: 3-3-79			TSI-0270-C 04		

K = KELLOGG SHOP WELD  
 G = GE FIELD WELD

XR-N-N WELD NO. UNIT NO.  
 2RXN WELD NO. UNIT NO.

SYSTEM UNIT NO. SYSTEM RISER LETTER

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISIN  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 75S-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : CSS CORE SPRAY SYSTEM - 075  
 ISOHETRIC NUMBER : HAA SHEET : 00  
 ISI-0290-C SHT. 1  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEH NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B2458S0014	RIG HGR	B-K-2 B4.10	R00000063			VT-3	19940531	PASS	NO			
2-47B2458S0029	RIG HGR	B-K-2 B4.10	R00000062			VT-3	19940531	PASS	NO			

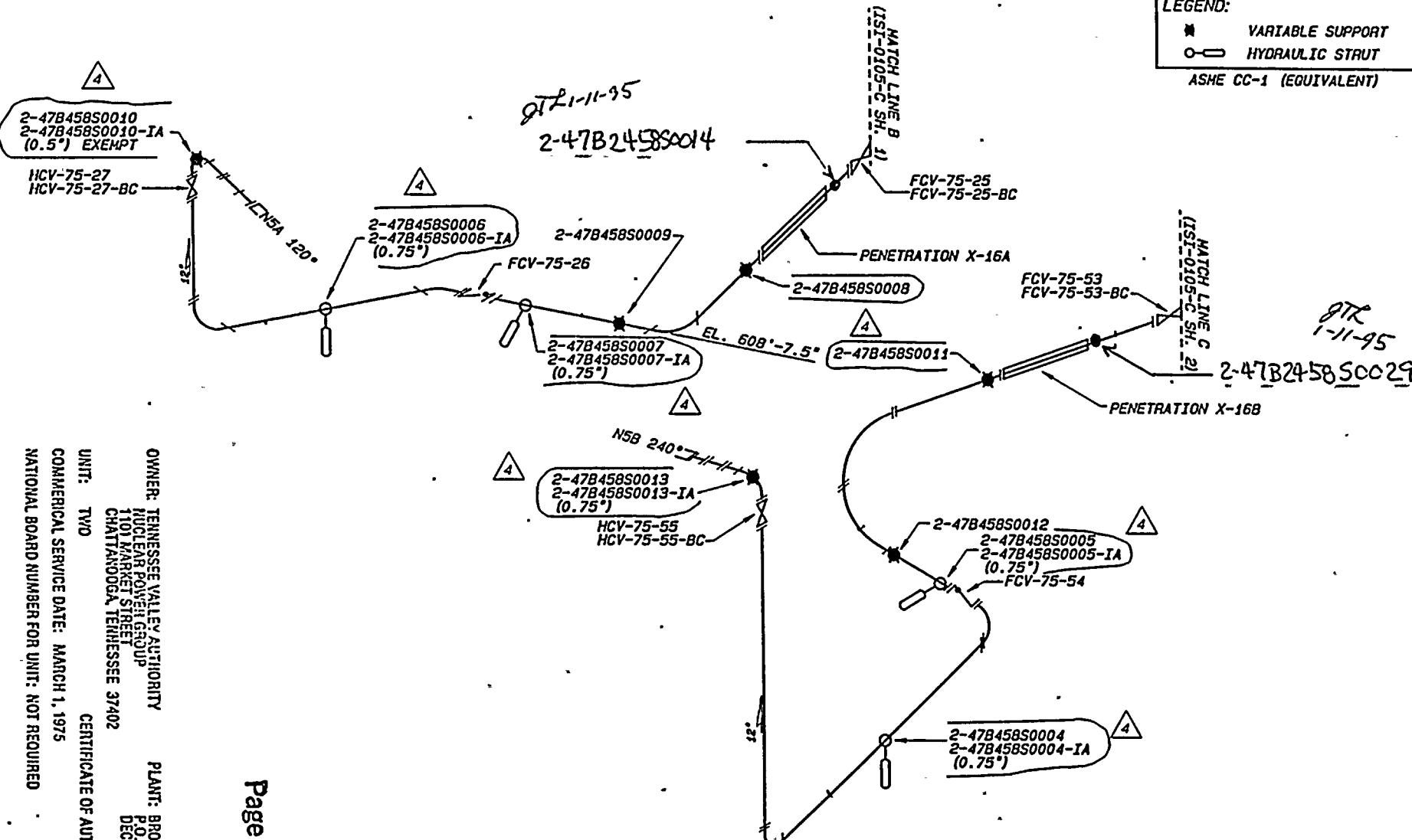
OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402  
 PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2000  
 DECATUR, ALABAMA 35602  
 UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL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



100

REFERENCE DRAWINGS:  
 47N458-1RB  
 ISI-0271-C (SH. 1) NEI  
 NOTE: THIS DRAWING SUPERSEDES ALL SHEETS.  
 .S CHM-2089-C

LEGEND:  
 \* VARIABLE SUPPORT  
 ○ HYDRAULIC STRUT  
 ASHE CC-1 (EQUIVALENT)

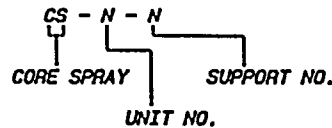


OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402

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

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

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CONTROLLED

REV	DATE	DESCRIPTION	BY	CHKD	APPD
04	6-1-92	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING			
03	6-28-90	REVISE SUPPORT N-3 REMOVE CADLOCK	JAA	JES	GLB
02	1-18-90	ADD NEW SUPPORT T.O.	JES	EOC	GLB
01	8-21-88	ADD MATCH LINES B & C	JES	EOC	GLB
REV BY	DATE	DESCRIPTION	BY	CHKD	APPD
HARDWARE: TEX 4129 SOFTWARE: TECHCAD 1.8* PLOTT: BP-13					
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT 2					
CORE SPRAY SYSTEM					
SUPPORT LOCATIONS					
DATE	REV	SUBMITTED	APPROVED	SCALE	NIS
DATE 8-25-87	DATE	DATE	DATE	SHEET 1 OF 1 SHEET(S)	
DATE 8-25-87	DATE	DATE	DATE	DRAWING NO.	REV
DATE	DATE	DATE	DATE	ISI-0280-C	04

00205



10-30-30

10-30-30

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 75S-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : FWS FEEDWATER SYSTEM - 003  
 ISOHERMIC NUMBER : IWA SHEET : 00  
 ISI-02-17-C SHT. 1  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B415S0020	RIG HCR	B-K-2 B4.10	R00000391			VT-3	19941024	PASS	NO			
2-47B415S0030	RIG HCR	B-K-2 B4.10	R00000393			VT-3	19941024	PASS	NO			

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 75S-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RCICS REACTOR CORE ISOLATION COOLING SYSTEM - 071  
 ISOHERMIC NUMBER : IWA SHEET : 00  
 ISI-0131-C SHT. 1  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
2-47B456R0002-IA	IWA	C-E-1 C2.5	R00000107			PT	19940927	PASS	NO			

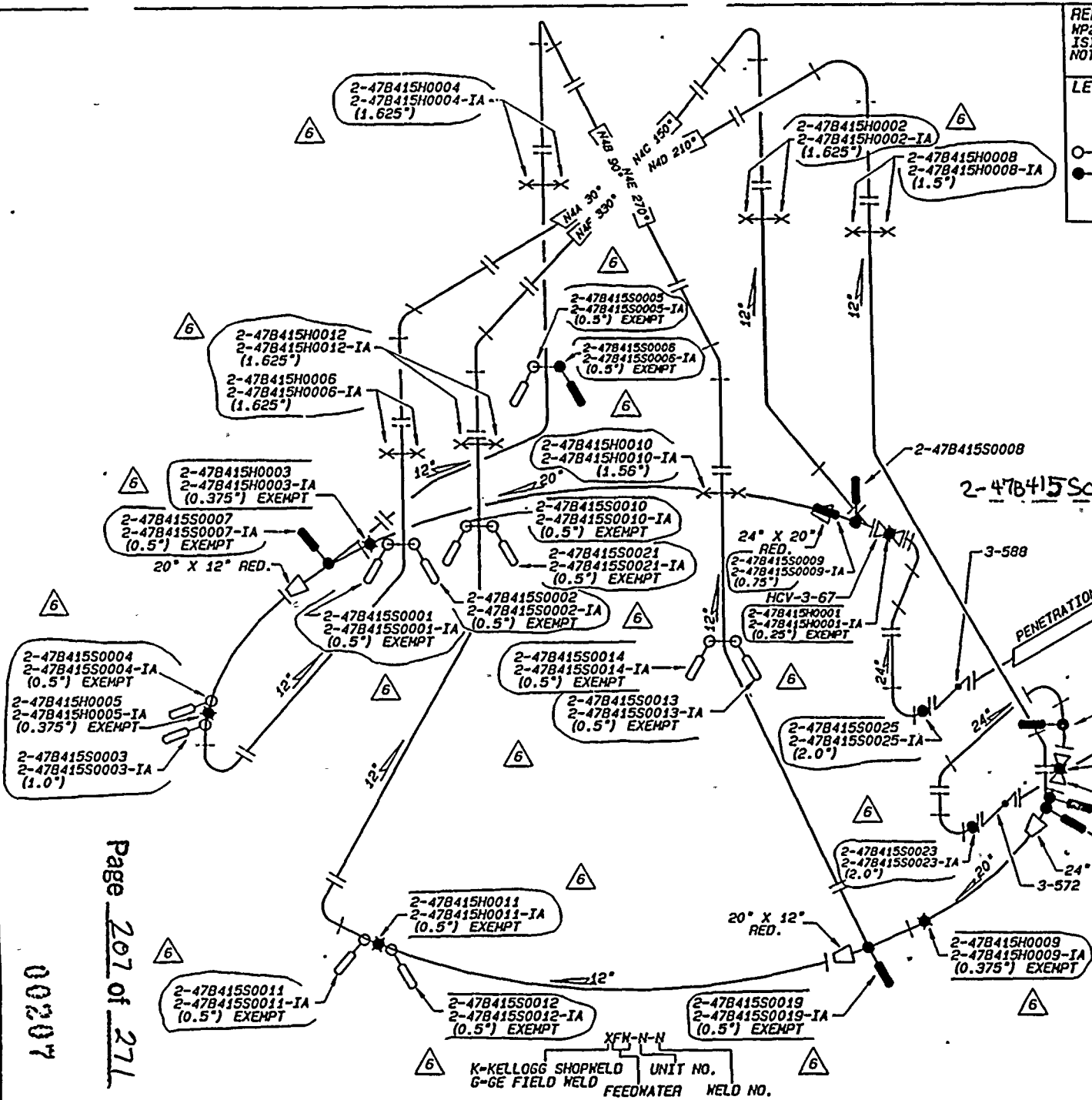
Page 206 of 271

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

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

00206



**REFERENCE DRAWINGS**  
 WP2563-88  
 IST-0269-C (WELD MAP)  
 NOTE: THIS DRAWING SUPERSEDES CHM-2085-C ALL SHEETS.

**LEGEND**

- RIGID HANGER
- ◐ VARIABLE SUPPORT
- ◌ HYDRAULIC SNUBBER
- ◌ MECHANICAL SNUBBER
- × CONSTANT FORCE SUPPORT

ASME CC-1 (EQUIVALENT)

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2493  
 DECATUR, ALABAMA 35602

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

REV	DATE	DESCRIPTION	BY	CHKD	APP
06	1-5-92	REVISE SUPPORT NUMBERS TO MATCH WELD MAP	EDC	GLB	WJA
05	10-30-92	DELETE SNUBBER LEGEND	EDC	GLB	WJA
04	8-20-90	REVISE SUPPORTS	EDC	GLB	WJA
03	2-28-90	REVISE SUPPORTS, REMOVE LABELS	EDC	GLB	WJA
02	1-2-80	CORRECT SUPPORTS, ASSESS, RED.	EDC	GLB	WJA
01	12-13-80	CORRECT MATCH LINES & SUPPORT NOS. ADD NEW SUPPORT NUMBERS AND NOTE	EDC	GLB	WJA

HUMANWARE: TEX 4129 SOFTWARE: TECHLEAD 1.0 FLOOPY: B-8  
**TENNESSEE VALLEY AUTHORITY**  
**BROWNS FERRY NUCLEAR PLANT**  
**UNIT #2**  
**FEEDWATER SYSTEM**  
**SUPPORT LOCATIONS**

DRAWN	APR	SUBMITTED	APPROVED	SCALE	HTS
DATE	11-12-84	DATE	DATE	SCALE	01 OF 01 SHEETS
DESIGN	EDC	DATE	GLB	DATE	12-1
CHECK	EDC	DATE	GLB	DATE	IST-0277-C 06

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K-KELLOGG SHOPWELD UNIT NO.  
 G-GE FIELD WELD FEEDWATER WELD NO.

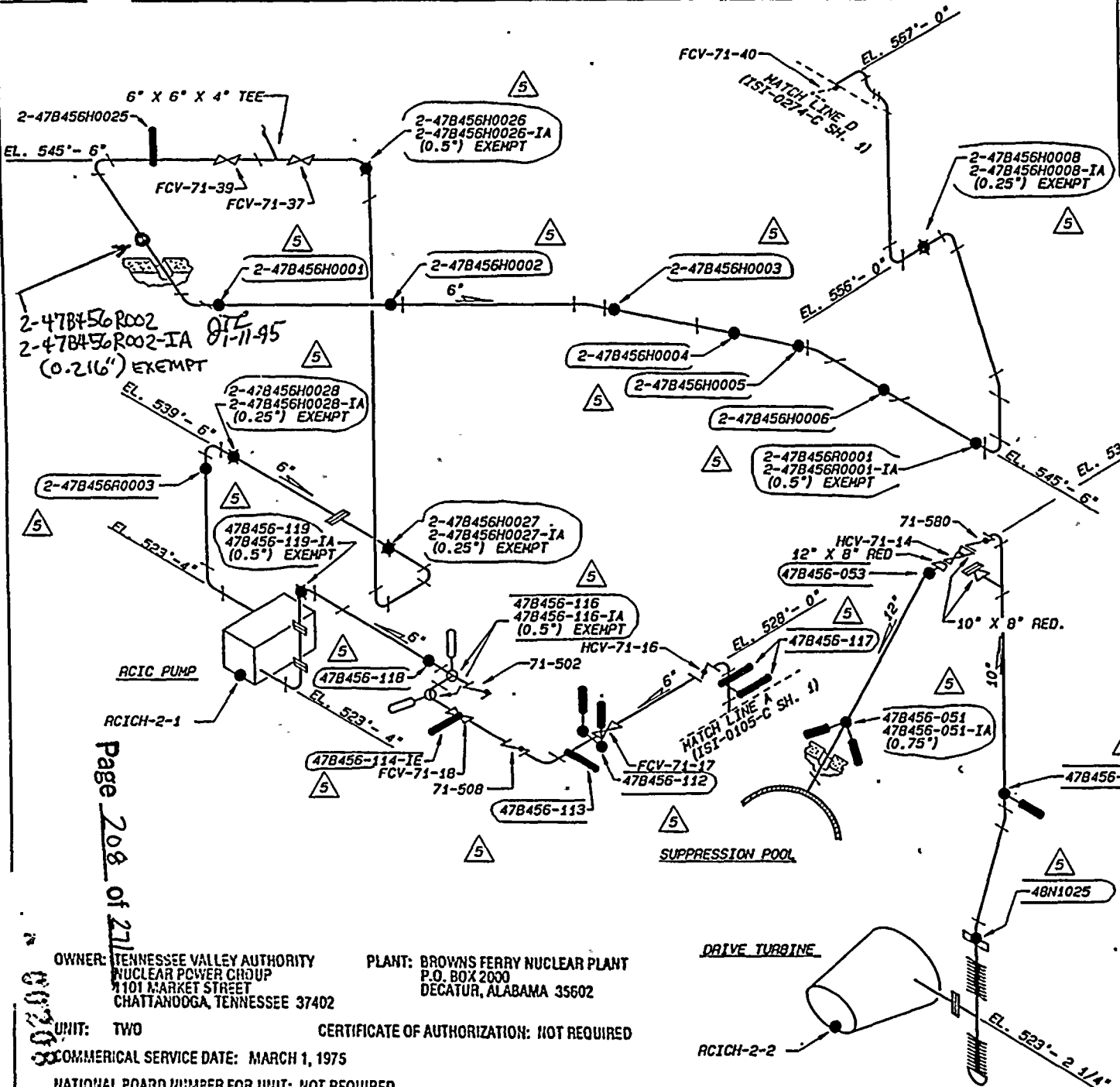


10500

REFERENCE DRAWINGS  
 47N456-H SERIES  
 47N2456 SERIES  
 ISI-0129-C (SH. 1) WELD MAP

- LEGEND:
- RIGID HANGER
  - VARIABLE SUPPORT
  - HYDRAULIC SNUBBER
  - MECHANICAL SNUBBER
  - ▬ RIGID STRUT

ASME CC-2 (EQUIVALENT)



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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2030  
 DECATUR, ALABAMA 35602

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REV	DATE	DESCRIPTION	BY	CHKD
5	6-3-92	REVISE SUPPORT NUMBERS TO MATCH NEW NUMBERS FROM ENGINEERING	MB	CS
4	1-11-91	DEL. CAUSEX. ADD WALKDOWN DATA	JJA	LES
3	8-14-88	REVISED MATCH LINE 0	LES	EG
2	2-3-87	REDESIGN FOR PRISM	LES	EG
1	12-18-85	ADD PUMP SUPPORTS	LES	EG

TENNESSEE VALLEY AUTHORITY			
BROWNS FERRY NUCLEAR PLANT - UNIT 2			
REACTOR CORE ISOLATION COOLING SYSTEM SUPPORT LOCATIONS			
DATE: 6-3-92	REVISION: 5	SCALE: NTS	DRWING NO.:
DATE: 6-3-92	DATE: 6-3-92	SCALE: 1/8" = 1'-0"	DRWING NO.:
DATE: 6-3-92	DATE: 6-3-92	SCALE: 1/8" = 1'-0"	DRWING NO.:

MF 215

CONTROLLED



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# APPENDIX VI

## SUMMARY OF INDICATIONS



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100-200000-1000000

100-200000-1000000

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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Indications detected during the performance of examinations for the Browns Ferry Nuclear Plant Unit 2/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.

Tables 1 and 2 summarize indications detected and corrective measures taken during Unit 2/Cycle 7. Table 1 (Indication Summary) summarizes the examination methods used and distributes the results found during Cycle 7. Table 2 (Relevant Indication Summary) summarizes the relevant indications found and corrective measures (Resolution) taken during Cycle 7. Table 2 also provides a list of additional sample components, where applicable.





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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

BFNP U2/C7  
 TABLE 1/INDICATION SUMMARY  
 ASME SECTION XI INSERVICE INSPECTION (86E-02)

EXAM METHOD	TOTAL EXAMS	EVALUATION SUMMARY TOTALS			DISPOSITION OF RELEVANT INDICATIONS					COMMENTS
		NRI	NONRELEVANT (GEO., MET.)	RELEVANT	EVAL., ACCEPT	ANALYZED ACCEPT	RE-PAIR	RE-PLACE	OTHER	
MT	53	51	0	2	1	0	1	0	0	LINEAR (R0089); REMOVED MECHANICALLY (R0341)
PT	30	28	0	2	0	0	2	0	0	LINEAR (R0324); REMOVED MECHANICALLY (R0325)
VT1	19	13	0	6	0	0	0	6	0	PHYSICAL DAMAGE (R0312); CRACKS (R0383, R0384, R0385, R0386, R0430)
VT2	6	6	0	0	0	0	0	0	0	NONE
VT3/4	133	130	0	3	0	1	2	0	0	FREEDOM OF MOTION (R0082); LOOSE NUT AND INCORRECT SETTING (R0066, R0224); COMPONENT RESET (R0124)
UT	46	16	29	1	1	0	0	0	0	SUBSURFACE LINEAR (R0405)
UT-RPV	18	5	8	5	5	0	0	0	0	NONE



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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

**BFNP U2/C7**  
**TABLE 2/RELEVANT INDICATION SUMMARY**  
**ASME SECTION XI INSERVICE INSPECTION**  
**(INCLUDES EXREQ A0X-02)**

INSPECTION REPORT NO. or WID.	CODE CATEGORY	COMPONENT IDENTIFICATION	INDICATION DESCRIPTION	RESOLUTION	ADDITIONAL SAMPLING
BFNU9400076	F-A	2-47B455H0060	Loose nut and incorrect support settings	Tightened nut-Report #R0066, Reset support-Report #R0224	Yes-2-47B455H0056, 2-47B455H0057, 2-47B455H0059, 2-47B455H0062, 2-47B455H0065
BFNU9400077	F-A	2-47B455H0056	Loose nut and incorrect support settings	Tightened nut and reset support - Report #R0449	Yes-2-47B455S0007, 2-47B455H0054, 2-47B455H0048, 2-47B455H0152
BFNU9400077	F-A	2-47B455H0059	Incorrect support settings	Reset support-Report #R0223	Yes-2-47B455S0007, 2-47B455H0054, 2-47B455H0048, 2-47B455H0152
BFNU9400077	F-A	2-47B455H0062	Incorrect support settings	Reset support-Report #R0214	Yes-2-47B455S0007, 2-47B455H0054, 2-47B455H0048, 2-47B455H0152
BFNU9400078	F-A	CS-2-H-2	Freedom of motion-other components pressing against support	Accept-as-is Ref PER# BFPER940245	No additional sampling required.
BFNU9400154	C-F-2	RCRD-2-A07	Linear MT indication	Evaluated and accepted by UT	No additional sampling required, rescheduled for exam in U2/C8
BFNU9400174	F-A	2-47B408S0056	Incorrect support settings	Reset support-Report #R0167	Yes-2-47B408S0081, 2-47B408S0064, 2-47B408S0065, 2-47B408S0066
BFNU9400176	F-A	2-47B408S0066	Loose nut and dent in can	Tightened nut and accepted-as-is dent in can-Report #R0448	Yes-2-47B408S0043, 2-47B408S0049, 2-47B408S0050, 2-47B408S0051, 2-47B408S0057
BFNU9400204	F-A	2-47B408S0051	Loose nut, no threads showing in engagement hole	Tightened nut and adjusted rod Report #R0447	No - Condition not relevant to the function of the support
BFNU9400212	B-J	GR-2-25	Rounded PT indication	Removed indication by buffing Report #R0324	No - Pre-service exam, repair covered by Work Order.
BFNU9400215	B-J	DCS-2-05	Linear PT indication	Removed indication by buffing Report #R0325	No - Pre-service exam, repair covered by Work Order.
BFNU9400289	C-F-2	DMS-2-15	Linear MT indication in base material	Removed indication by buffing Report #R0407	No - Indication not considered service induced (Cosmetic)



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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

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**BFNP U2/C7  
 TABLE 2/RELEVANT INDICATION SUMMARY  
 ASME SECTION XI INSERVICE INSPECTION  
 (INCLUDES EXREQ A0X-02)**

INSPECTION REPORT NO. or WID.	CODE CATEGORY	COMPONENT IDENTIFICATION	INDICATION DESCRIPTION	RESOLUTION	ADDITIONAL SAMPLING
BFNU9400290	B-G-2	CRDN-2-0619-BC	Linear indication in bolting	Replaced bolting	No - indication evaluated to IWB-3600. Relief requested SPT-4 submitted to NRC
BFNU9400290	B-G-2	CRDN-2-1835-BC	Linear indication in bolting	Replaced bolting	No - indication evaluated to IWB-3600. Relief requested SPT-4 submitted to NRC
BFNU9400290	B-G-2	CRDN-2-2219-BC	Linear indication in bolting	Replaced bolting	No - indication evaluated to IWB-3600. Relief requested SPT-4 submitted to NRC
BFNU9400290	B-G-2	CRDN-2-1839-BC	Linear indication in bolting	Replaced bolting	No - indication evaluated to IWB-3600. Relief requested SPT-4 submitted to NRC
BFNU9400290	B-G-2	CRDN-2-0627-BC	Linear indication in bolting	Replaced bolting	No - indication evaluated to IWB-3600. Relief requested SPT-4 submitted to NRC
BFNU9400300	F-A	2-47B408S0059	Incorrect support settings	Accept-as-is disposition	No - Engineering evaluation of setting, no resetting of spring required.
BFNU9400352	B-G-2	FCV-68-33-BC	Deformed Threads	Replaced	No - Not considered service induced
NONE	B-F	N1A-SE	Subsurface planar	Evaluated - Acceptable	No additional sampling required
NONE	B-D	N2B	3 Insignificant indications	Evaluated - Acceptable	No additional sampling required
NONE	B-D	N2F	15 Insignificant indications	Evaluated - Acceptable	No additional sampling required
NONE	B-D	N3D	21 Insignificant indications	Evaluated - Acceptable	No additional sampling required
NONE	B-D	N4A	2 Insignificant indications	Evaluated - Acceptable	No additional sampling required
NONE	B-D	N4F	10 Insignificant indications	Evaluated - Acceptable	No additional sampling required

**VOLUME 1 / PART 2**

**AUGUMENTED EXAMINATION  
SUMMARY**



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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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERICAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

## PART 2

# AUGMENTED EXAMINATION SUMMARY

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

This section includes augmented examinations performed to comply with the 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 2/Cycle 7 outage and references the corresponding paragraph in 2-SI-4.6.G.

#### Paragraph 7.12.2: RPV Cladding Indication

Reference: TVA report #R-437/GE report # BF2-1030 data sheet BF2-IV94-04

PRISIM Examination Requirement Source: D02-02

An indication in the RPV cladding was discovered during the RPV interior examination conducted in August 1988. It is located in azimuth 15 degrees, 32.75 inches below the RPV flange surface.

Examination Results: The indication was brushed to remove scale and examined with a high resolution underwater camera. The camera sensitivity was capable of resolving a 0.001" diameter wire in the area of examination. TVA and GE level III examiners evaluated the indication by comparison to previous examination results and determined that there was no evidence of propagation due to service from Cycle 6 to Cycle 7.

#### Paragraph 7.12.7: Feedwater Nozzles

Reference: NUREG-0619

PRISIM Examination Requirement Source: B01-02

An ultrasonic examination of the feedwater nozzle safe ends, bores, and inside blend radii are required every second refueling outage.

Examination Results: The six feedwater nozzle safe ends, bores, and inside blend radii were examined with satisfactory results.

#### Paragraph 7.12.8: Augmented Examination of Austenitic Stainless Steel and Dissimilar Metal Welds Susceptible to IGSCC

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

PRISIM Examination Requirement Source: B02-02

2-SI-4.6.G requires the augmented examination of austenitic stainless steel and dissimilar metal circumferential welds in piping four inches or larger NPS that contain reactor coolant at a temperature above 200 degrees F during power operation in accordance with Generic Letter 88-01 and NUREG-0313. The total welds in each NUREG-0313 category and the number examined during the Unit 2/Cycle 7 outage are listed below:

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

UNIT: TWO                                      CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

<u>NUREG-0313 CATEGORY</u>	<u>TOTAL NUMBER OF WELDS</u>	<u>WELDS EXAMINED DURING U2/C7 OUTAGE</u>
A	40	3
B	N/A	N/A
C	121	121
D	7	6
E	15	7
F	N/A	N/A
G	2	2(VT-2)

Examination Results: Indications indicative of IGSCC were identified in weld GR-2-64. These indications exceeded the IWB-3500 acceptance standards of ASME Section XI and the weld was repaired by weld overlay in accordance with the guidance in Generic Letter 88-01 and ASME Section XI Code Case N-504-1. The NRC approval to utilize Code Case N-504-1 was provided by letter to TVA from the NRC dated November 7, 1994. GR-2-64 was a NUREG-0313, Category C weld and additional samples were not required since the total number of welds in this category were examined during the Unit 2/Cycle 7 refueling outage. Weld GR-2-64(OL) will be designated as a NUREG-0313, Category E weld for future scheduling purposes.

**Paragraph 7.12.9: Technical Specification Surveillance Requirement 4.6.G.2**

Reference: TS 4.6.G.2  
 PRISIM Examination Requirement Source: B04-02

Additional ultrasonic examinations are performed on selected welds to provide protection from pipe whip.

Examination Results: Eight welds were examined with satisfactory results.

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

### Paragraph 7.12.11: RPV Interior Examination

References:	<u>COMPONENT</u>	<u>AUGMENTED REQUIREMENT</u>
	Core Spray Spargers	IEB 80-13
	Core Support Shroud	SIL-572
	Core Spray T-Box Welds	SIL-289
	Jet Pump Sensing Lines	SIL-420
	Jet Pump Riser Braces	SIL-551
	Jet Pump Adjusting Screws	SIL-574
	IRM/SRM Dry Tubes	SIL-409
	Steam Dryer Channel Weld	SIL-474
	Steam Dryer Support Bracket	II-B-93-026
	Instrument Nozzle Safe Ends	SIL-571
	Core Spray and Recirculation	
	Inlet Safe Ends	GE Letter # BFSE 94-007
	Shroud Head Bolts	SIL-433

PRISIM Exam Requirement Source: B06-02

RPV interior components listed above were visually examined during the Unit 2/Cycle 7 outage by General Electric Nuclear Energy with the following exceptions. The steam dryer support bracket was repaired during the Unit 2/Cycle 7 outage in accordance with Work Order # 94-10330-00. The instrument nozzle safe ends were examined as part of the VT-2 Class 1 system leakage test. The thermal sleeve crevice area for Core Spray Nozzles N5A and N5B were ultrasonically examined during the Unit 2/Cycle 7 outage with satisfactory results.

#### Examination Results:

Cracking was observed in 4 IRM and 3 SRM dry housing tubes. The cracking was predominately circumferential and extended 360 degrees on 2 IRM tubes and 2 SRM tubes, 270 degrees on 1 IRM tube and 1 SRM tube, and 180 degrees on 1 IRM tube. No indications were observed in the remaining 5 dry tubes.

Very small linear indications were observed on three jet pump restrainer (adjusting) set screw tack welds on Jet Pump #1, Jet Pump #11, and Jet Pump #12. Only one of the two tack welds in each case was affected and the indications are so small that it is difficult to determine if the indications are relevant. 2-SI-4.6.G, section 7.12.11.10, requires inspection of the Jet Pump adjusting screws each refueling outage.

A total of 26 shroud head bolts of "old design" were replaced in lieu of performing ultrasonic examination in accordance with work order #91-13937-00.

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 NJTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2.  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : B01-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 W PAGE 1  
 W REVISION 0002  
 W DATE 01/17/95  
 \*\*\*\*\*

SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : CHN-2046-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT	INDICATION TYPE	INDICATION RESOLUTION
N4A-IR	FW NIR	B-D NJ0619	R00001009	C00000530	BF-18	UT-IR	19941017	PASS	NO		
			R00001009	C00000531	BF-18	UT-IR	19941017	PASS	NO		
			R00001009	C00000634	BF-18	UT-IR	19941006	PASS	NO		
N4A-NB	NOZBORE	B-D NJ0619	R00001017	C00000643	BF-18	UT-32	19941006	PASS	NO	GEOMETRIC	NON-RELEVANT
			R00001017	C00000545	BF-93	UT-45	19941020	PASS	NO	GEOMETRIC	NON-RELEVANT
			R00001017	C00000546	BF-93	UT-45	19941020	PASS	NO		
N4B-IR	FW NIR	B-D NJ0619	R00001010	C00000530	BF-18	UT-IR	19941017	PASS	NO		
			R00001010	C00000531	BF-18	UT-IR	19941017	PASS	NO		
			R00001010	C00000605	BF-18	UT-IR	19941006	PASS	NO	GEOMETRIC	NON-RELEVANT
N4B-NB	NOZBORE	B-D NJ0619	R00001012	C00000644	BF-93	UT-32	19941006	PASS	NO	GEOMETRIC	NON-RELEVANT
			R00001012	C00000545	BF-93	UT-45	19941020	PASS	NO	GEOMETRIC	NON-RELEVANT
			R00001012	C00000546	BF-93	UT-45	19941020	PASS	NO		
N4C-IR	FW NIR	B-D NJ0619	R00001013	C00000542	BF-18	UT-IR	19941019	PASS	NO		
			R00001013	C00000543	BF-18	UT-IR	19941019	PASS	NO		
			R00001013	C00000608	BF-18	UT-IR	19941006	PASS	NO	GEOMETRIC	NON-RELEVANT
N4C-NB	NOZBORE	B-D NJ0619	R00001014	C00000648	BF-93	UT-32	19941006	PASS	NO	GEOMETRIC	NON-RELEVANT
			R00001014	C00000541	BF-93	UT-45	19941025	PASS	NO		
			R00001014	C00000544	BF-93	UT-45	19941019	PASS	NO		
N4D-IR	FW NIR	B-D NJ0619	R00001015	C00000542	BF-18	UT-IR	19941019	PASS	NO		
			R00001015	C00000543	BF-18	UT-IR	19941019	PASS	NO		
			R00001015	C00000610	BF-18	UT-IR	19941006	PASS	NO	GEOMETRIC	NON-RELEVANT

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

PLANT: BROWNS FERRY NUCLEAR PLANT  
 P.O. BOX 2300  
 DECATUR, ALABAMA 35602

UNIT: TWO

CERTIFICATE OF AUTHORIZATION, NOT REG. . .  
 COMMERCIAL SERVICE DATE: MARCH 1, 1973

NATIONAL BOARD NUMBER FOR UNIT: NOT REG. . .

00220







SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : CHN-2046-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REGST.	INDICATION TYPE	INDICATION RESOLUTION
N4D-NB	NOZBORE	B-D NU0619	R00001016	C00000649	BF-93	UT-32	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001016	C00000541	BF-93	UT-45	19941019	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001016	C00000544	BF-93	UT-45	19941019	PASS	NO			
N4E-IR	FW NIR	B-D NU0619	R00001019	C00000542	BF-18	UT-IR	19941019	PASS	NO			
			R00001019	C00000543	BF-18	UT-IR	19941019	PASS	NO			
			R00001019	C00000643	BF-18	UT-IR	19941006	PASS	NO			GEOMETRIC
N4E-NB	NOZBORE	B-D NU0619	R00001020	C00000647	BF-18	UT-32	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001020	C00000545	BF-93	UT-45	19941020	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001020	C00000546	BF-93	UT-45	19941020	PASS	NO			
N4F-IR	FW NIR	B-D NU0619	R00001007	C00000522	BF-18	UT-IR	19941017	PASS	NO			
			R00001007	C00000524	BF-18	UT-IR	19941017	PASS	NO			
			R00001007	C00000603	BF-18	UT-IR	19941006	PASS	NO			
N4F-NB	NOZBORE	B-D NU0619	R00001018	C00000643	BF-18	UT-32	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001018	C00000545	BF-93	UT-45	19941020	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001018	C00000546	BF-93	UT-45	19941020	PASS	NO		GEOMETRIC	NON-RELEVANT

SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : ISI-0269-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REGST.	INDICATION TYPE	INDICATION RESOLUTION
N4A-SE	FW NOZ -SAFEEND	B-J NU0619	R00000370	C00000286	BF-93	UT-45	19941020	PASS	NO			
N4B-SE	FW NOZ -SAFEEND	B-J NU0619	R00001012	C00000644	BF-93	UT-32	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001012	C00000545	BF-93	UT-45	19941020	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001012	C00000546	BF-93	UT-45	19941020	PASS	NO			
N4C-SE	FW NOZ -SAFEEND	B-J NU0619	R00001014	C00000648	BF-93	UT-32	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001014	C00000541	BF-93	UT-45	19941025	PASS	NO			
			R00001014	C00000544	BF-93	UT-45	19941019	PASS	NO			
N4D-SE	FW NOZ -SAFEEND	B-J NU0619	R00001016	C00000649	BF-93	UT-32	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001016	C00000541	BF-93	UT-45	19941019	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001016	C00000544	BF-93	UT-45	19941019	PASS	NO			
N4E-SE	FW NOZ -SAFEEND	B-J NU0619	R00001020	C00000647	BF-18	UT-32	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001020	C00000545	BF-93	UT-45	19941020	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00001020	C00000546	BF-93	UT-45	19941020	PASS	NO			
N4F-SE	FW NOZ -SAFEEND	B-J NU0619	R00000316	C00000286	BF-93	UT-45	19941020	PASS	NO			

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

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 00222

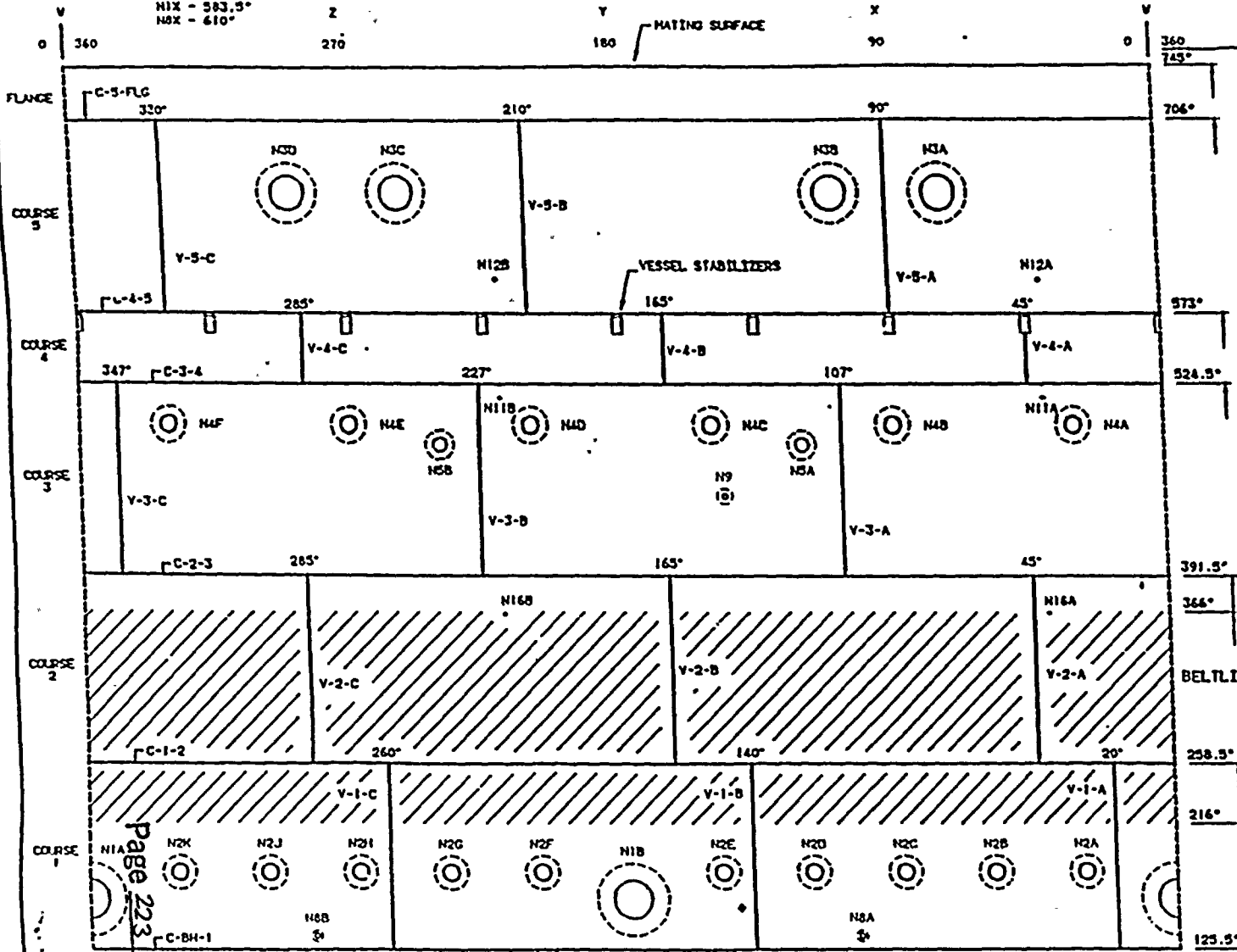


FILE GROUP	DISTANCE TO MATING SURFACE
N1X	86.5°
N12X	146°
N11X	228°
N4X	246.5°
N3X	259.8°
N9	296.5°
N16X	379°
N2X	564°
N1X	583.5°
N8X	610°

REFERENCE DRA (GE)  
 SKETCHES - RPV EXAMIN. PLAN (RE)  
 SK-B2001 SK-B2003  
 SK-B2003 SK-B2007  
 SK-B2004 SK-B2004  
 -82010

LEGEND  
 O VESSEL NOZZLE  
 O FULL PENETRATION NOZZLE WELD  
 ASME CC-1 (EQUIVALENT)

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  
 UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED



4	PHD	DES	1/26/75	1/26/75	01/30/74
REVISE WELD DIMENSIONS TO LOCATE FROM BOTTOM HEAD. REVISE INT. DIM.					
3	PHD	JES	CLB	PHD	10-28-73
REDRAW TO SHOW ACC. AS-BUILT DIMENSIONS. REVISE V-2 BELTLINE					
V-4-A NOW V-4-C, V-4-B NOW V-4-A, V-4-C NOW V-4-B. ACC. BELTLINE					
2	PHD	SPG	JES	CLB	8-3-72
DEL. CADOUT, ADD NOZZLES 18, 117, 118, 124, 129.					
RELOCATE 118 & 129, DELETE DECADE LINES					
1	SPG	JES	EDC	CLB	12-29-68
REVISED ELEVATIONS AND TITLE BLOCK					
REV. BY	CHECKED	SUBMITTED	APPROVED	DATE	

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 REACTOR PRESSURE VESSEL (RPV)  
 SHELL COURSE WELD/NOZZLE LOCATIONS (OUTSIDE VIEW)  
 DRAWN: DATE: SCALE: 1/2" = 1'-0"  
 CHECKED: APPROVED: SHEET 01 OF 02  
 SUBMITTED: CLB CHM-2046-C04

Page 223 of 271  
 00723

**REFERENCE DRAWINGS**

47K1545-1  
47N335-2  
GE 729E152  
ISI-0277-C (SH. 1) SUPPORT MAP  
THIS DRAWING SUPERCEDES CHN-2067-C  
ALL SHEETS.

**MATERIAL SPECIFICATIONS**

ASTM A-106 GR B SCH. 100 OR ASTM A-136 GR B SCH. 100  
12" X 1.00" NOM. WALL, DOUBLE FENCE TO NOZZLE  
ASTM A-106 GR B SCH. 100  
12" X 1.00" NOM. WALL, DOUBLE FENCE TO NOZZLE  
ASTM A-106 GR B SCH. 100  
24" FLUED HEAD CS  
ASTM A-234 GR B SCH. 100 OR S. 200" NOM. WALL  
(TO SUIT PIPE AS FUNCTIONED)  
ALL OTHER FITS, ELBS, AND REDUCERS  
ASME CC-1 (EQUIVALENT)

**NOTES**

1. GE FIELD WELDS WERE MADE IN THE FIELD BY TVA
2. PIPE SEGMENT LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
(BASE WELD) -LS-D (DOWNSTREAM)  
(BASE WELD) -LS-U (UPSTREAM)

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

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

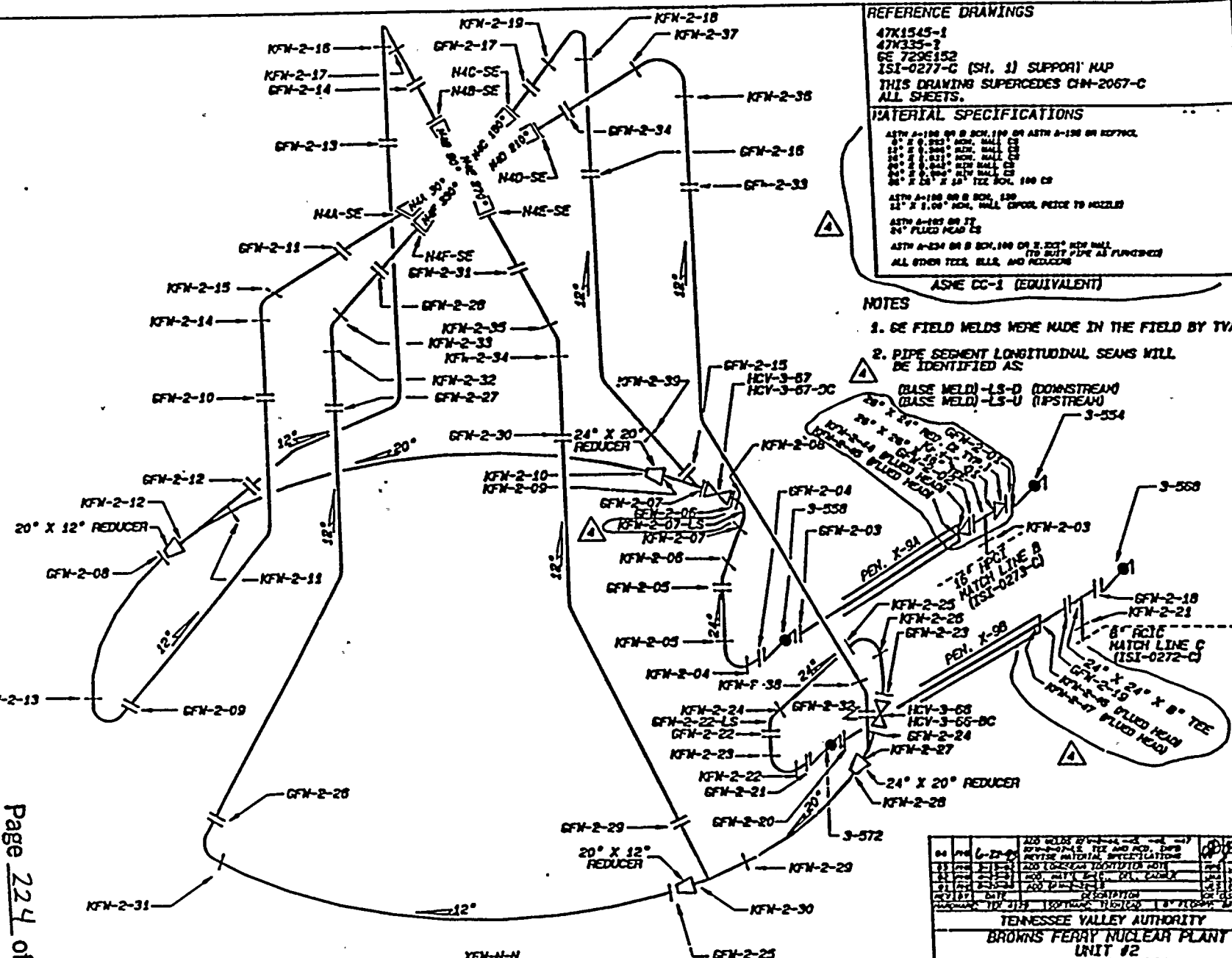
UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH, 1975

CONTRACT NUMBER FOR UNIT: NOT REQUIRED

Page 224 of 271



K-KELLOGG CHOPWELD UNIT NO.  
G-GE FIELD WELD FEEDWATER WELD NO.

DATE	BY	DESCRIPTION	APPROVED	SCALE	REV
04/11/75	EDC	ISSUE FOR CONSTRUCTION	GLB	AS SHOWN	1
08/04/75	EDC	REVISED TO SHOW CHANGES	GLB	AS SHOWN	2
08/15/75	EDC	REVISED TO SHOW CHANGES	GLB	AS SHOWN	3

TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT  
UNIT #2  
FEEDWATER SYSTEM  
WELD LOCATIONS

DATE	BY	DESCRIPTION	APPROVED	SCALE	REV
04/11/75	EDC	ISSUE FOR CONSTRUCTION	GLB	AS SHOWN	1
08/04/75	EDC	REVISED TO SHOW CHANGES	GLB	AS SHOWN	2
08/15/75	EDC	REVISED TO SHOW CHANGES	GLB	AS SHOWN	3

00224

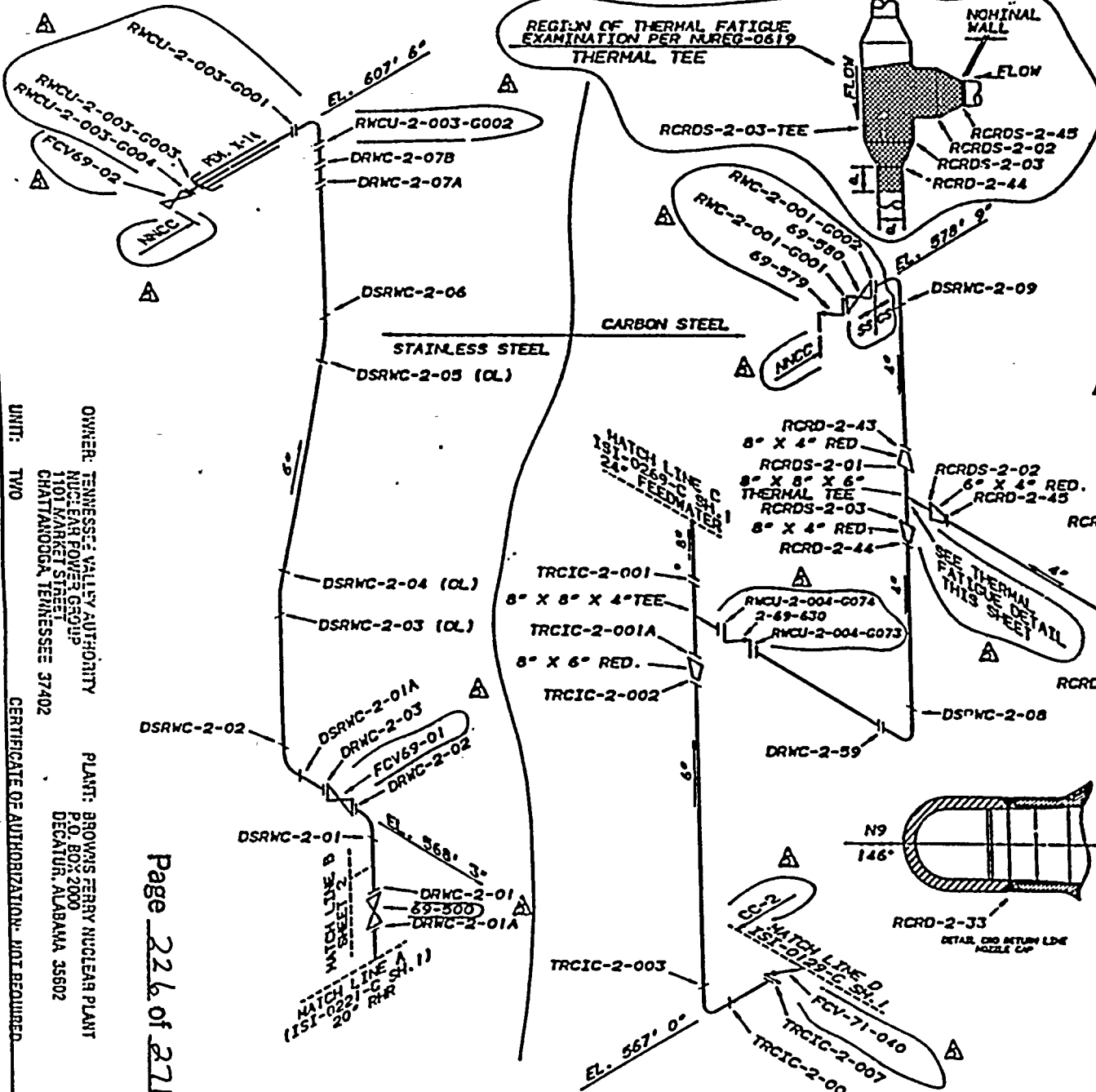
SYSTEM : CRDS CONTROL ROD DRIVE SYSTEM - 085  
 ISOMETRIC NUMBER : ISI-0272-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REGST.	INDICATION TYPE	INDICATION RESOLUTION
RCRD-2-49	VALVE -ELBOW	D NU0313	R00000408	C00000296	BF-29	UT-45	19941022	PASS	NO	GEOMETRIC	NON-RELEVANT
			R00000408	C00000297	BF-29	UT-60L	19941022	PASS	NO	GEOMETRIC	NON-RELEVANT
RCRD-2-50	ELBOW -VALVE	D NU0313	R00000409	C00000296	BF-29	UT-45	19941022	PASS	NO	GEOMETRIC	NON-RELEVANT
			R00000409	C00000297	BF-29	UT-60L	19941022	PASS	NO	GEOMETRIC	NON-RELEVANT
RCRD-2-52	VALVE -PIPE	D NU0313	R00000410	C00000296	BF-29	UT-45	19941022	PASS	NO		
			R00000410	C00000297	BF-29	UT-60L	19941022	PASS	NO		

SYSTEM : CSS CORE SPRAY SYSTEM - 075  
 ISOMETRIC NUMBER : ISI-0271-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REGST.	INDICATION TYPE	INDICATION RESOLUTION
DCS-2-04	PENPIPE -PIPE	C NU0313	R00000257	C00000146	BF-79	UT-45	19941013	PASS	NO		
DCS-2-05	PIPE -VALVE	C NU0313	R00000273	C00000177	BF-79	UT-45	19941015	PASS	NO		
			R00000273	C00000178	BF-79	UT-60L	19941015	PASS	NO		
DCS-2-07	PIPE -ELBOW	C NU0313	R00000247	C00000165	BF-79	UT-45	19941013	PASS	NO		
DCS-2-13	PENPIPE -PIPE	C NU0313	R00000240	C00000152	BF-79	UT-45	19941013	PASS	NO		
DCS-2-13A	PIPE -PIPE	C NU0313	R00000239	C00000152	BF-79	UT-45	19941013	PASS	NO		
DCS-2-14	PIPE -VALVE	C NU0313	R00000272	C00000177	BF-79	UT-45	19941015	PASS	NO	GEOMETRIC	NON-RELEVANT
			R00000272	C00000179	BF-79	UT-45L	19941015	PASS	NO	GEOMETRIC	NON-RELEVANT
			R00000272	C00000178	BF-79	UT-60L	19941015	PASS	NO		
DSCS-2-01	PIPE -ELBOW	C NU0313	R00000271	C00000175	BF-79	UT-45	19941017	PASS	NO		
			R00000271	C00000176	BF-79	UT-45	19941014	PASS	NO		
DSCS-2-02	ELBOW -PIPE	C NU0313	R00000217	C00000133	BF-79	UT-45	19941012	PASS	NO	GEOMETRIC	NON-RELEVANT
										GEOMETRIC	NON-RELEVANT
										GEOMETRIC	NON-RELEVANT
										GEOMETRIC	NON-RELEVANT
DSCS-2-09	ELBOW -PIPE	C NU0313	R00000226	C00000135	BF-79	UT-45	19941012	PASS	NO		
TCS-2-403	PIPE -SAFEEND	C NU0313	R00000121	C00000032	BF-05	UT-45	19941003	PASS	NO		

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  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 00225



**REFERENCE DRAWINGS**  
 CRD-2-003  
 RCIC-2-004  
 DRWC-2-001  
 2-69-335-14, -17

**NOTE:**  
 THIS DRAWING SUPERSEDES CH-2075-C AND CH-2072-C (ALL SHEETS)

**MATERIAL SPECIFICATIONS**  
 STAINLESS STEEL  
 FITTINGS  
 6" SA403 WP316NG SCH. 80 SS  
 PIPING  
 6" SA376 TP316NG SCH. 80 SS  
 CARBON STEEL  
 4" SCH. 80 A-333, GRI (SEAMLESS) CS  
 6" X 0.562" NOM WALL SCH. 120 CS  
 8" X 0.593" NOM WALL SCH. 100 CS  
 VALVE  
 2-69-630 SA182 F316  
 ASME CC-1 (EQUIVALENT)

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

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

CERTIFICATE OF AUTHORIZATION - UNIT REQUIRED

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REV	BY	DATE	DESCRIPTION	APPROVED	DATE
01	JES	6-2-80	ISSUE FOR CONSTRUCTION	ELB	6-2-80
02	JES	6-2-80	ISSUE FOR CONSTRUCTION	ELB	6-2-80
03	JES	6-2-80	ISSUE FOR CONSTRUCTION	ELB	6-2-80
04	JES	6-2-80	ISSUE FOR CONSTRUCTION	ELB	6-2-80
05	JES	6-2-80	ISSUE FOR CONSTRUCTION	ELB	6-2-80
06	JES	6-2-80	ISSUE FOR CONSTRUCTION	ELB	6-2-80
07	JES	6-2-80	ISSUE FOR CONSTRUCTION	ELB	6-2-80
08	JES	6-2-80	ISSUE FOR CONSTRUCTION	ELB	6-2-80
09	JES	6-2-80	ISSUE FOR CONSTRUCTION	ELB	6-2-80
10	JES	6-2-80	ISSUE FOR CONSTRUCTION	ELB	6-2-80

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 REACTOR WATER CLEAN UP, RCIC, AND CRD  
 WELD IDENTIFICATION

DRAWN: JES DATE: 6-2-80 SCALE: 1:1 EXAMINATION  
 CHECKED: JES APPROVED: ELB SHEET 01 OF 03 REV  
 SUBMITTED: EDC



1860

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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

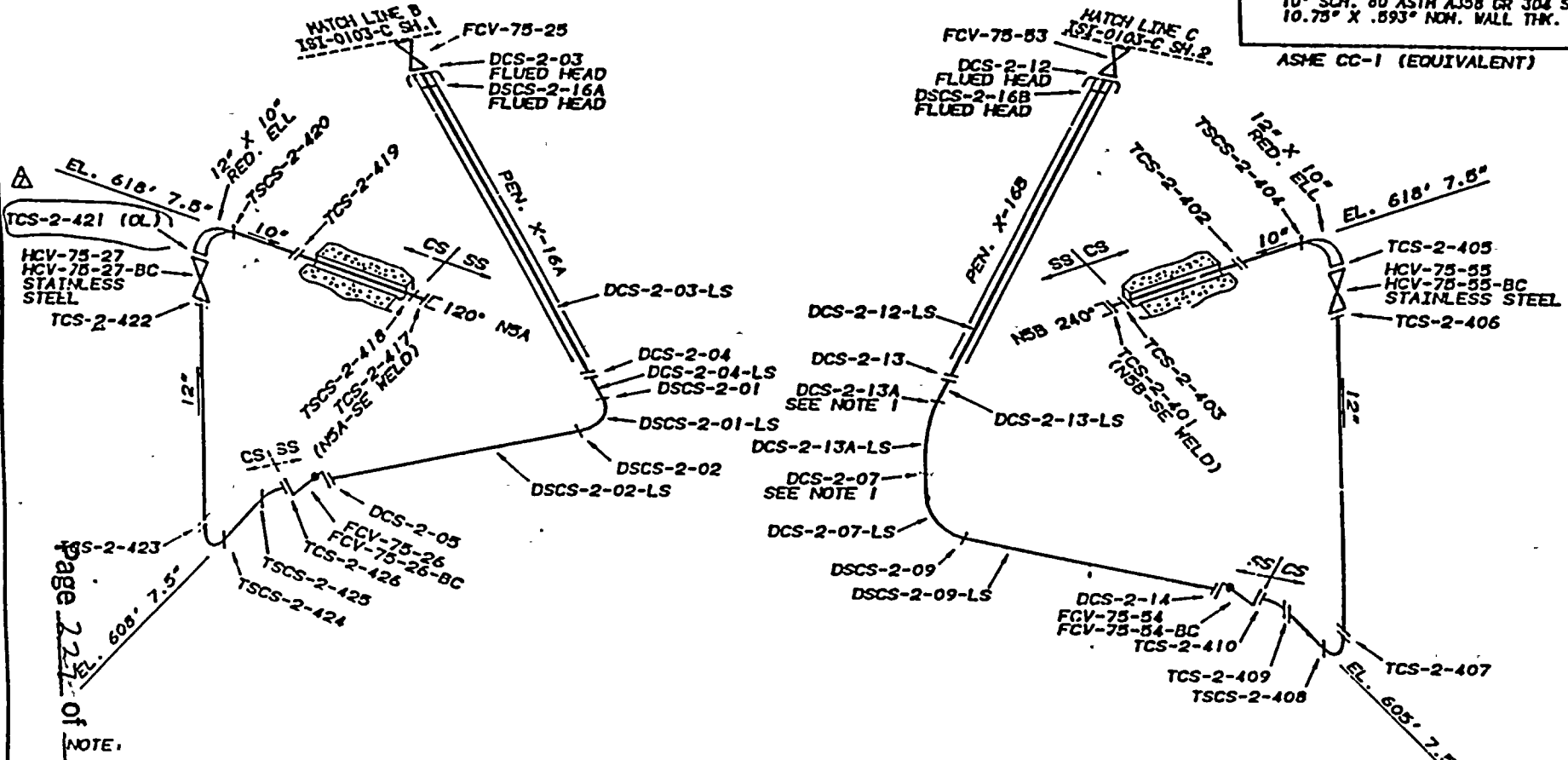
REFERENCE DRAWINGS  
 DRAVO E-2450-IC-34  
 DRAVO E-2458-IC-35

NOTE: THIS DRAWING SUPERSEDES CHN-2071-C  
 ALL SHEETS

MATERIAL SPECIFICATIONS

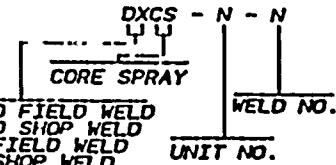
12" SCH. 80 SA 333 GR6 CS  
 12.75" X .687" NOM. WALL THK.  
 12" SCH. 80 ASTM A358 GR 304 SS  
 12.75" X .687" NOM. WALL THK.  
 10" SCH. 80 SA 333 GR6 CS  
 10.75" X .593" NOM. WALL THK.  
 10" SCH. 80 ASTM A358 GR 304 SS  
 10.75" X .593" NOM. WALL THK.

ASME CC-1 (EQUIVALENT)



- NOTE:
1. WELDS DCS-2-07 AND DCS-2-13A ARE DRAVO SHOP WELDS.
  2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:

(BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)



REV.	BY	DATE	DESCRIPTION		
1	PHB	JES	EDC	CLB	4-23-70
2	PHB	JES	EDC	CLB	7-4-70
3	PHB	JES	EDC	CLB	11-13-70
4	PHB	JES	EDC	CLB	9-20-71

ADD LONGSEAM IDENTIFIER NOTE

MODIFY MATERIAL SPECS., ADD LONG SEAMS

REV.	BY	DATE	DESCRIPTION		
01	PHB	JES	EDC	CLB	4-23-70
02	PHB	JES	EDC	CLB	7-4-70
03	PHB	JES	EDC	CLB	11-13-70
04	PHB	JES	EDC	CLB	9-20-71

ADD LONGSEAM WELD TSCS-2-424-LS, CORRECT MATERIAL SPECS

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 CORE SPRAY SYSTEM  
 WELD LOCATIONS

DRWN.	PHB	DATE	5-17-70	SCALE	1:1	CADWELL	REV
CHECKED	JES	APPROVED	CLB	SHEET	01	OF	01
SUBMITTED	EDC						

IST-0271-G 07

Page 223 of 223  
00227





11-11-11

NUTECH

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 802-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1

\*\*\*\*\*  
 # PAGE 3  
 # REVISION 0002  
 # DATE 01/17/95  
 \*\*\*\*\*

SYSTEM : CSS CORE SPRAY SYSTEM - 075  
 ISOMETRIC NUMBER : ISI-0271-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
TCS-2-403	PIPE -SAFEEND	C NU0313	R00000121	C00000034	BF-46	UT-45	19941002	PASS	NO			
			R00000121	C00000033	BF-05	UT-45L	19941003	PASS	NO			
			R00000121	C00000035	BF-46	UT-45L	19941003	PASS	NO			
			R00000121	C00000044	BF-46	UT-45L	19941004	PASS	NO			
TCS-2-405	VALVE -ELBOW	C NU0313	R00000191	C00000105	BF-75	UT-45	19941004	PASS	NO			
			R00000191	C00000104	BF-75	UT-60L	19941004	PASS	NO		BEAM REDIRECT	NON-RELEVANT
											GEOMETRIC	NON-RELEVANT
											GEOMETRIC	NON-RELEVANT
TCS-2-406	PIPE -VALVE	C NU0313	R00000128	C00000041	BF-75	UT-45	19941004	PASS	NO			
			R00000128	C00000043	BF-75	UT-45L	19941004	PASS	NO			
			R00000128	C00000042	BF-75	UT-60L	19941004	PASS	NO			
TCS-2-410	VALVE -ELBOW	C NU0313	R00000238	C00000149	BF-75	UT-45	19941013	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000238	C00000151	BF-75	UT-45L	19941013	PASS	NO			
			R00000238	C00000150	BF-75	UT-60L	19941013	PASS	NO		GEOMETRIC	NON-RELEVANT
TCS-2-421(OL)	OVERLAY	E NU0313	R00000228	C00000139	BF-50	UT-60L	19941013	PASS	NO		PLANAR	NON-RELEVANT
			R00000228	C00000138	BF-50	UT-70L	19941013	PASS	NO		PLANAR	NON-RELEVANT
			R00000228	C00000137	BF-50	UT-80L	19941013	PASS	NO		PLANAR	NON-RELEVANT
											LACK/FUSION	NON-RELEVANT
TCS-2-422	PIPE -VALVE	C NU0313	R00000243	C00000157	BF-75	UT-45	19941012	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000243	C00000158	BF-75	UT-45L	19941012	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000243	C00000159	BF-75	UT-60L	19941012	PASS	NO			
TCS-2-426	VALVE -ELBOW	C NU0313	R00000210	C00000128	BF-75	UT-45	19941012	PASS	NO		GEOMETRIC	NON-RELEVANT

NUTECH

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 802-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1

PRISIM  
 \*\*\*\*\*  
 # PAGE 4  
 # REVISION 0002  
 # DATE 01/17/95  
 \*\*\*\*\*

SYSTEM : CSS CORE SPRAY SYSTEM - 075  
 ISOMETRIC NUMBER : ISI-0271-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION.
TCS-2-426	VALVE -ELBOW	C NU0313	R00000210	C00000130	BF-75	UT-45L	19941012	PASS	NO			
			R00000210	C00000129	BF-75	UT-60L	19941012	PASS	NO		GEOMETRIC	NON-RELEVANT
TCS-2-418	PIPE -SAFEEND	C NU0313	R00000242	C00000153	BF-05	UT-45	19941014	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000242	C00000155	BF-46	UT-45	19941014	PASS	NO			
			R00000242	C00000154	BF-05	UT-45L	19941014	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000242	C00000156	BF-46	UT-45L	19941015	PASS	NO			

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00228

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

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REFERENCE DRAWINGS

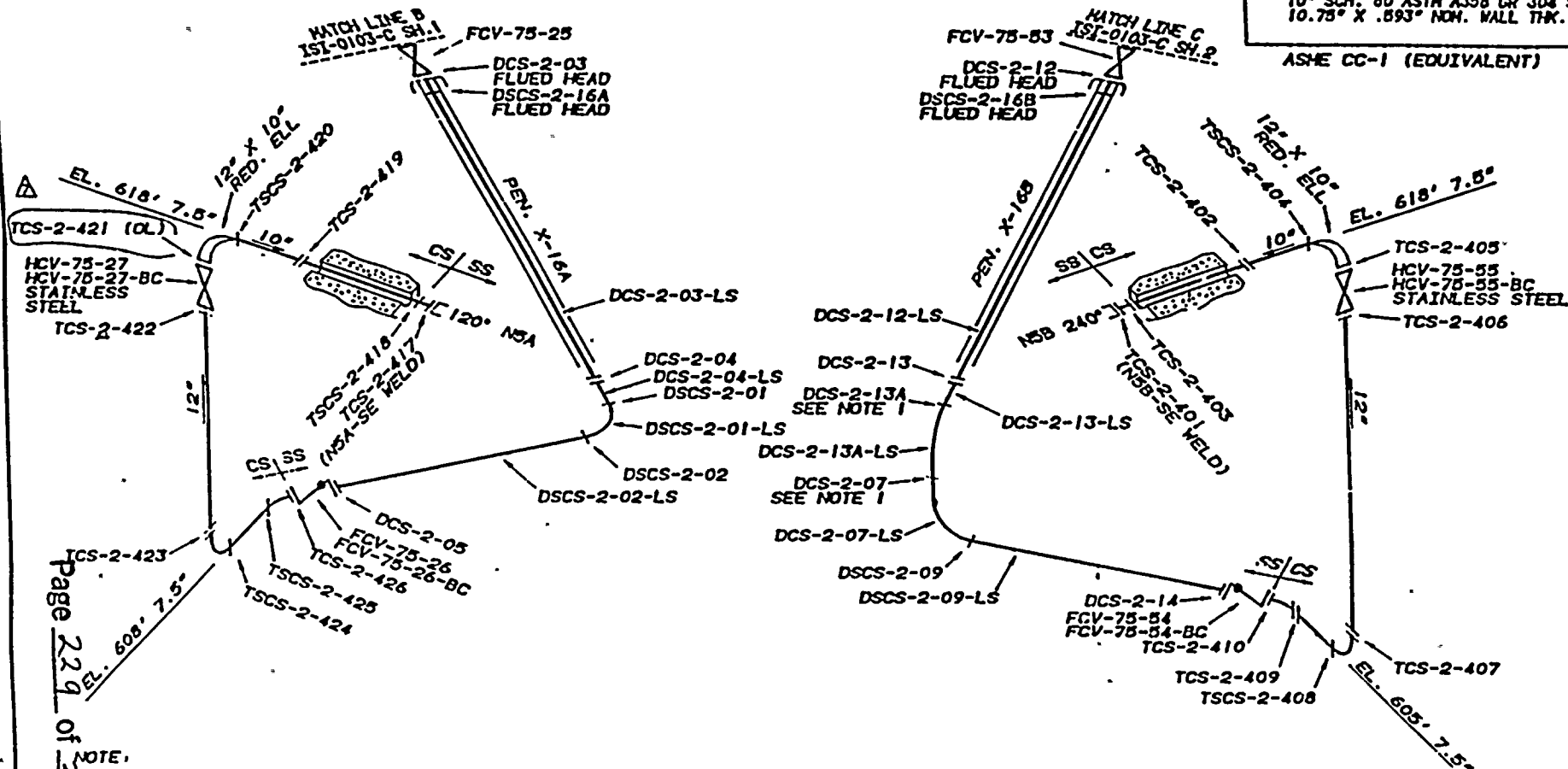
DRAVO E-2450-IC-34  
DRAVO E-2458-IC-35

NOTE: THIS DRAWING SUPERSEDES CHN-2071-C ALL SHEETS

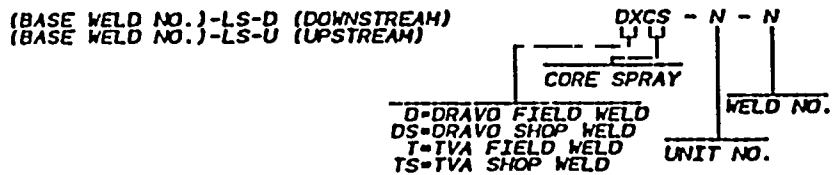
MATERIAL SPECIFICATIONS

12" SCH. 80 SA 333 GR6 CS  
12.75" X .687" NOM. WALL THK.  
12" SCH. 80 ASTM A358 GR 304 SS  
12.75" X .687" NOM. WALL THK.  
10" SCH. 80 SA 333 GR6 CS  
10.75" X .593" NOM. WALL THK.  
10" SCH. 80 ASTM A358 GR 304 SS  
10.75" X .593" NOM. WALL THK.

ASME CC-1 (EQUIVALENT)



- NOTE:
- WELDS DCS-2-07 AND DCS-2-13A ARE DRAVO SHOP WELDS.
  - PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:



7	PHB	JES	EDC	CLB	9-23-90
ADD (CL) TO TCS-2-421 PER FCOT-93-10					
6	PHB	JES	EDC	CLB	2/11/93
DELETE LONG SEAMS TCS-2-405-LS, -405-LB, -418-LS, -418-LB, -423-LS, -423-LB, -426-LS, -426-LB, -429-LS, -429-LB, -430-LS, -430-LB, -433-LS, -433-LB, -434-LS, -434-LB, -437-LS, -437-LB, -438-LS, -438-LB, -440-LS, -440-LB, -441-LS, -441-LB, -442-LS, -442-LB, -443-LS, -443-LB, -444-LS, -444-LB, -445-LS, -445-LB, -446-LS, -446-LB, -447-LS, -447-LB, -448-LS, -448-LB, -449-LS, -449-LB, -450-LS, -450-LB, -451-LS, -451-LB, -452-LS, -452-LB, -453-LS, -453-LB, -454-LS, -454-LB, -455-LS, -455-LB, -456-LS, -456-LB, -457-LS, -457-LB, -458-LS, -458-LB, -459-LS, -459-LB, -460-LS, -460-LB, -461-LS, -461-LB, -462-LS, -462-LB, -463-LS, -463-LB, -464-LS, -464-LB, -465-LS, -465-LB, -466-LS, -466-LB, -467-LS, -467-LB, -468-LS, -468-LB, -469-LS, -469-LB, -470-LS, -470-LB, -471-LS, -471-LB, -472-LS, -472-LB, -473-LS, -473-LB, -474-LS, -474-LB, -475-LS, -475-LB, -476-LS, -476-LB, -477-LS, -477-LB, -478-LS, -478-LB, -479-LS, -479-LB, -480-LS, -480-LB, -481-LS, -481-LB, -482-LS, -482-LB, -483-LS, -483-LB, -484-LS, -484-LB, -485-LS, -485-LB, -486-LS, -486-LB, -487-LS, -487-LB, -488-LS, -488-LB, -489-LS, -489-LB, -490-LS, -490-LB, -491-LS, -491-LB, -492-LS, -492-LB, -493-LS, -493-LB, -494-LS, -494-LB, -495-LS, -495-LB, -496-LS, -496-LB, -497-LS, -497-LB, -498-LS, -498-LB, -499-LS, -499-LB, -500-LS, -500-LB					
3	PHB	JES	EDC	CLB	3-13-92
ADD LONGSEAM IDENTIFIER NOTE					
2	PHB	JJA	JES	CLB	9-20-91

03	PHB	JES	EDC	CLB	9-23-90
ADD CS & SS BOUNDARY, CS SPTS, DEL CADRUX					
02	PHB	JES	EDC	CLB	1-4-90
ADD NOTE 3					
01	PHB	JES	EDC	CLB	12-15-88
ADD LONGSEAM WELD TCS-2-426-LS, CORRECT MATERIAL SPECS					
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT UNIT 2 CORE SPRAY SYSTEM WELD LOCATIONS					
DRAWN:	PHB	DATE:	9-17-89	SCALE:	N/A
DESIGNED:	JES	APPROVED:		SHEET:	01 OF 01
ENGINEER:	JES	DATE:		REV:	
TST-0271-C-07					

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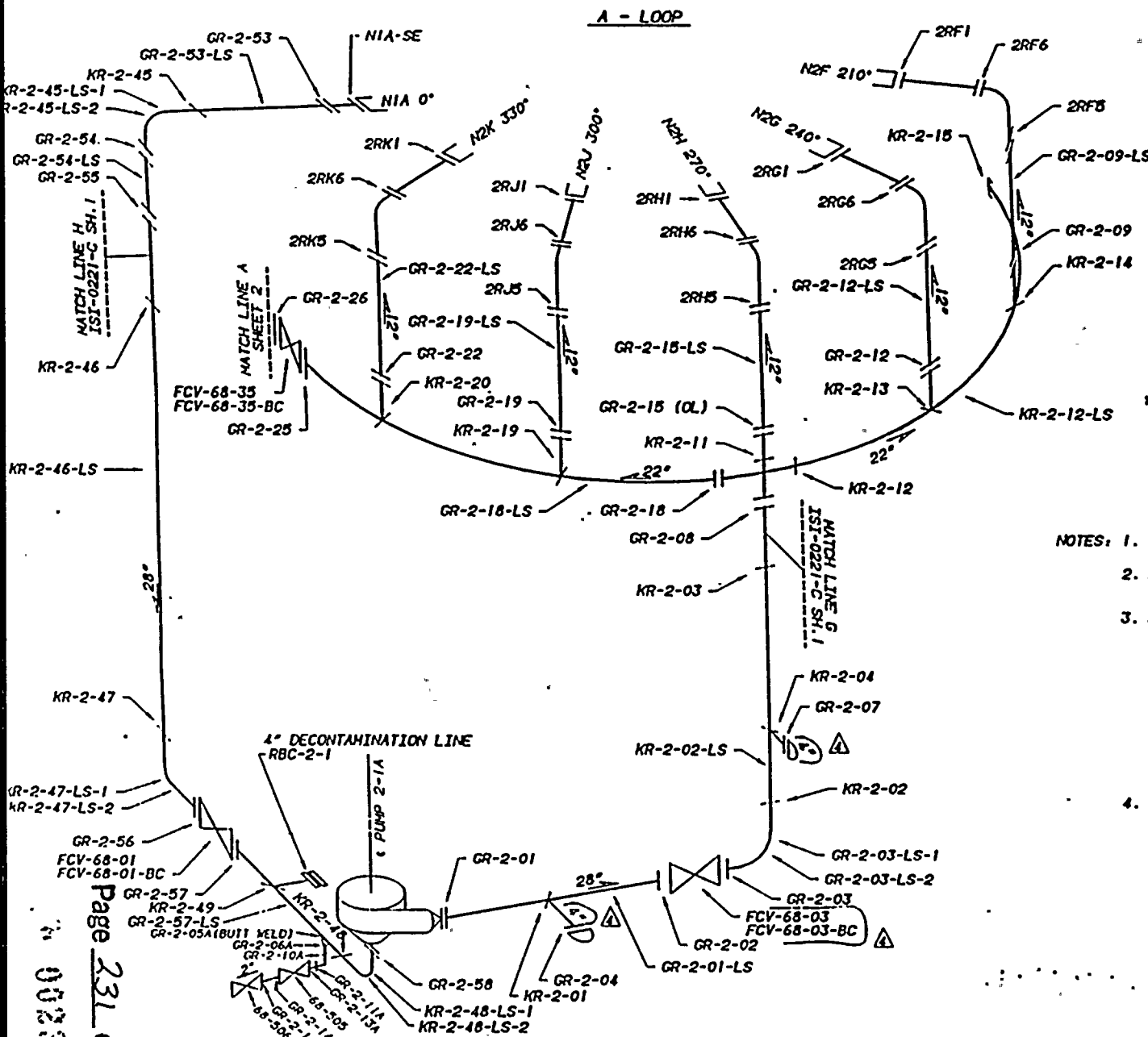
50229

SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0270-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT REOST.	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION	
GR-2-01	PUMP -PIPE	C MU0313	R00000444	C00000059	BF-57	UT-45	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT	
			R00000444	C00000134	BF-57	UT-45	19941004	PASS	NO		GEOMETRIC	NON-RELEVANT	
			R00000444	C00000060	BF-57	UT-60L	19941006	PASS	NO			GEOMETRIC	NON-RELEVANT
			R00000444	C00000127	BF-57	UT-60L	19941004	PASS	NO			GEOMETRIC	NON-RELEVANT
GR-2-02	PIPE -VALVE	C MU0313	R00000180	C00000095		UT-SIZ	19941007	PASS	NO		GEOMETRIC	NON-RELEVANT	
			R00000180	C00000096		UT-SIZ	19941007	PASS	NO			GEOMETRIC	NON-RELEVANT
			R00000180	C00000097		UT-SIZ	19941007	PASS	NO				
			R00000180	C00000094	BF-82	UT-45	19941007	PASS	NO			GEOMETRIC	NON-RELEVANT
			R00000180	C00000098	BF-57	UT-45	19941005	PASS	NO			GEOMETRIC	NON-RELEVANT
			R00000180	C00000134	BF-57	UT-45	19941004	PASS	NO			GEOMETRIC	NON-RELEVANT
GR-2-03	VALVE -ELBOW	C MU0313	R00000166	C00000076	BF-57	UT-45	19941007	PASS	NO				
			R00000166	C00000132	BF-57	UT-45	19941011	PASS	NO			GEOMETRIC	NON-RELEVANT
			R00000166	C00000077	BF-57	UT-60L	19941007	PASS	NO				
			R00000166	C00000131	BF-57	UT-60L	19941004	PASS	NO				
GR-2-04	BR CONN -CAP	C MU0313	R00000194	C00000108	BF-41	UT-45	19941006	PASS	NO				
			R00000194	C00000109	BF-41	UT-60	19941006	PASS	NO			SPOT IND.	NON-RELEVANT
GR-2-07	BR CONN -CAP	C MU0313	R00000193	C00000108	BF-41	UT-45	19941006	PASS	NO				
			R00000193	C00000109	BF-41	UT-60	19941006	PASS	NO			GEOMETRIC	NON-RELEVANT
GR-2-08	TEE -CROSS	C MU0313	R00000285	C00000193	BF-44	UT-45	19941018	PASS	NO				
			R00000285	C00000194	BF-57	UT-45L	19941007	PASS	NO			GEOMETRIC	NON-RELEVANT
GR-2-09	SWPOLET -PIPE	C MU0313	R00000268	C00000169	BF-79	UT-45	19941015	PASS	NO				

SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0270-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT REOST.	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION	
GR-2-09	SWPOLET -PIPE	C MU0313	R00000268	C00000142	BF-79	UT-45	19941011	PASS	NO				
			R00000268	C00000170	BF-79	UT-60L	19941015	PASS	NO				
			R00000268	C00000143	BF-79	UT-60L	19941011	PASS	NO				
GR-2-12	SWPOLET -PIPE	C MU0313	R00000279	C00000199	BF-79	UT-45	19941012	PASS	NO				
			R00000279	C00000142	BF-79	UT-45	19941011	PASS	NO				
			R00000279	C00000200	BF-79	UT-60L	19941012	PASS	NO			GEOMETRIC	NON-RELEVANT
			R00000279	C00000143	BF-79	UT-60L	19941011	PASS	NO				
GR-2-18	CROSS -PIPE	C MU0313	R00000320	C00000232	BF-57	UT-45	19941017	PASS	NO				
			R00000320	C00000144	BF-57	UT-45	19941012	PASS	NO				
			R00000320	C00000145	BF-57	UT-60L	19941014	PASS	NO				
GR-2-19	SWPOLET -PIPE	C MU0313	R00000275	C00000180	BF-79	UT-45	19941017	PASS	NO				
			R00000275	C00000226	BF-79	UT-45	19941014	PASS	NO				
			R00000275	C00000181	BF-79	UT-60L	19941017	PASS	NO				
			R00000275	C00000227	BF-79	UT-60L	19941014	PASS	NO				
GR-2-22	SWPOLET -PIPE	C MU0313	R00000225	C00000142	BF-79	UT-45	19941011	PASS	NO				
			R00000225	C00000143	BF-79	UT-60L	19941011	PASS	NO				
GR-2-25	PIPE -VALVE	C MU0313	R00000368	C00000274	BF-44	UT-SIZ	19941024	PASS	NO				
			R00000368	C00000275		UT-SIZ	19941024	PASS	NO				
			R00000368	C00000276		UT-SIZ	19941024	PASS	NO				
			R00000368	C00000277	BF-82	UT-SIZ	19941024	PASS	NO				
			R00000368	C00000278	BF-44	UT-SIZ	19941024	PASS	NO				
			R00000368	C00000279		UT-SIZ	19941024	PASS	NO				
			R00000368	C00000272	BF-57	UT-45	19941019	PASS	NO				
R00000368	C00000273	BF-57	UT-60L	19941019	PASS	NO			GEOMETRIC	NON-RELEVANT			
GR-2-26	VALVE -PIPE	C MU0313	R00000183	C00000100	BF-88	UT-45	19941010	PASS	NO				

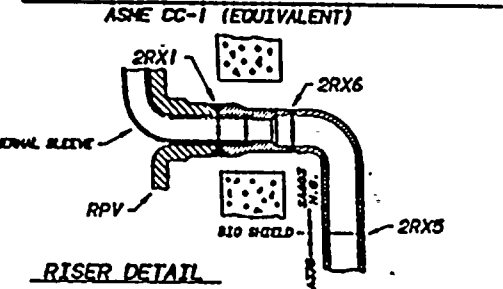


**REFERENCE DRAWING**  
 47N2408-8,9 (S.E. A.)  
 GE 769E963 (S.E. REPL.)  
 TVA 47K1844-2  
 GE 153F784  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHN-2068-C ALL SHEETS

**MATERIAL SPECIFICATIONS:**  
 A358, TP 304  
 4" X 0.337" NOM. WALL THK. (SS)  
 12" X 0.569" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE

2" SCH. 80 A-376, TP304  
 2" FITTINGS A-182, F304

SAFE END REPLACEMENT  
 12" X 0.688" NOM. WALL THK. (SS)  
 SA 403 WP 316 N.G.



- NOTES:**
1. WELDS 2RX1 ARE THE NOZZLE TO SAFE-END WELDS
  2. ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.
  3. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-ID (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-IU (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)  
 THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHERMOST FROM 0° ON THE PIPE. (i.e. -LS-1 AT 130°, AND -LS-2 AT 310°)
  4. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

04	REV	6-11-92	DEL ONE BC NOTE FROM VALVE IDENTIFIER AND 4" NOTES	EDC	JES	CLB
03	REV	3-13-92	ADD LONGSEAM IDENTIFIER NOTES	RPG	JES	CLB
02	REV	9-20-91	DEL CADWORK, ADD 2" LINE, WTL. SPEC.	JAA	JES	CLB
01	REV	3-28-89	REDRAWN INTO TWO SHEETS	JES	EDC	CLB
REV BY	DATE	DESCRIPTION	DATE	APP	CHK'D	APP
HARDWARE: IBM 5043		SOFTWARE: CADAM	USER: JSTOMP			
TENNESSEE VALLEY AUTHORITY						
BROWNS FERRY NUCLEAR PLANT						
UNIT 2						
RECIRCULATION SYSTEM						
WELD LOCATIONS						
DRAWN	PHD	3-16-87	APPROVED	EDC	DATE	6-12-89
DATE	3-16-87	DATE	6-12-89	SCALE	SHEET 1 OF 2 SHEETS	
Q'D BY	JES	EDC	CLB	DRAWING NO.	TST-0270-C 04	
DATE	6-12-89					

K = KELLOGG SHOP WELD  
 G = GE FIELD WELD

WELD NO. UNIT NO. SYSTEM

2RXN UNIT NO. SYSTEM RISER LETTER

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402  
 GEORGIA INSTITUTE OF TECHNOLOGY

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SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0270-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
GR-2-26	VALVE -PIPE	C NU0313	R00000183	C00000101	BF-88	UT-60L	19941010	PASS	NO			
GR-2-53	SAFEEND -PIPE	E NU0313	R00000148	C00000238		UT-S12	19941013	PASS	NO		IGSCC	EVALUATED,OK
			R00000148	C00000190		UT-S12	19941013	PASS	NO		IGSCC	EVALUATED,OK
			R00000148	C00000191		UT-S12	19941013	PASS	NO		IGSCC	EVALUATED,OK
			R00000148	C00000192		UT-S12	19941013	PASS	NO		IGSCC	EVALUATED,OK
			R00000148	C00000134	BF-57	UT-45	19941004	PASS	NO		IGSCC	EVALUATED,OK
			R00000148	C00000189	BF-82	UT-45	19941013	PASS	NO		IGSCC	EVALUATED,OK
GR-2-54	ELBOW -PIPE	C NU0313	R00000229	C00000134	BF-57	UT-45	19941004	PASS	NO			
GR-2-55	PIPE -TEE	C NU0313	R00000278	C00000148	BF-57	UT-45	19941015	PASS	NO			
			R00000278	C00000134	BF-57	UT-45	19941004	PASS	NO			
			R00000278	C00000147	BF-57	UT-60L	19941015	PASS	NO			
			R00000278	C00000228	BF-57	UT-60L	19941012	PASS	NO			
GR-2-56	ELBOW -VALVE	C NU0313	R00000209	C00000076	BF-57	UT-45	19941007	PASS	NO			
			R00000209	C00000132	BF-57	UT-45	19941011	PASS	NO			
			R00000209	C00000077	BF-57	UT-60L	19941007	PASS	NO			
			R00000209	C00000131	BF-57	UT-60L	19941004	PASS	NO			
GR-2-57	VALVE -PIPE	C NU0313	R00000126	C00000132	BF-57	UT-45	19941011	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000126	C00000131	BF-57	UT-60L	19941004	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000126	C00000131	BF-57	UT-60L	19941004	PASS	NO		GEOMETRIC	NON-RELEVANT
GR-2-58	ELBOW -PUMP	C NU0313	R00000177	C00000089	BF-57	UT-45	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000177	C00000089	BF-57	UT-45	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000177	C00000089	BF-57	UT-45	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT

SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0270-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
GR-2-58	ELBOW -PUMP	C NU0313	R00000177	C00000132	BF-57	UT-45	19941011	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000177	C00000090	BF-57	UT-60L	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000177	C00000131	BF-57	UT-60L	19941004	PASS	NO		GEOMETRIC	NON-RELEVANT
KR-2-01	PIPE -BR CORR	C NU0313	R00000195	C00000110	BF-59	UT-30	19941005	PASS	NO	IS12-4	GEOMETRIC	NON-RELEVANT
			R00000195	C00000111	BF-59	UT-45	19941006	PASS	NO	IS12-4	GEOMETRIC	NON-RELEVANT
			R00000195	C00000112	BF-59	UT-45L	19941005	PASS	NO	IS12-4	GEOMETRIC	NON-RELEVANT
KR-2-02	ELBOW -PIPE	C NU0313	R00000179	C00000093	BF-57	UT-45	19941009	PASS	NO		BEAM REDIREC	NON-RELEVANT
			R00000179	C00000132	BF-57	UT-45	19941011	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000179	C00000132	BF-57	UT-45	19941011	PASS	NO		GEOMETRIC	NON-RELEVANT
KR-2-03	PIPE -TEE	C NU0313	R00000172	C00000085	BF-57	UT-45	19941010	PASS	NO			
			R00000172	C00000084	BF-57	UT-60L	19941010	PASS	NO			
KR-2-04	PIPE -BR CORR	C NU0313	R00000196	C00000110	BF-59	UT-30	19941005	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000196	C00000111	BF-59	UT-45	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000196	C00000112	BF-59	UT-45L	19941005	PASS	NO		GEOMETRIC	NON-RELEVANT
KR-2-11	CROSS -PIPE	C NU0313	R00000244	C00000161	BF-44	UT-45	19941012	PASS	NO			
			R00000244	C00000160	BF-44	UT-60L	19941012	PASS	NO			
KR-2-12	CROSS -PIPE	C NU0313	R00000231	C00000140	BF-57	UT-45	19941012	PASS	NO			
			R00000231	C00000132	BF-57	UT-45	19941011	PASS	NO			
			R00000231	C00000141	BF-57	UT-60L	19941012	PASS	NO			

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

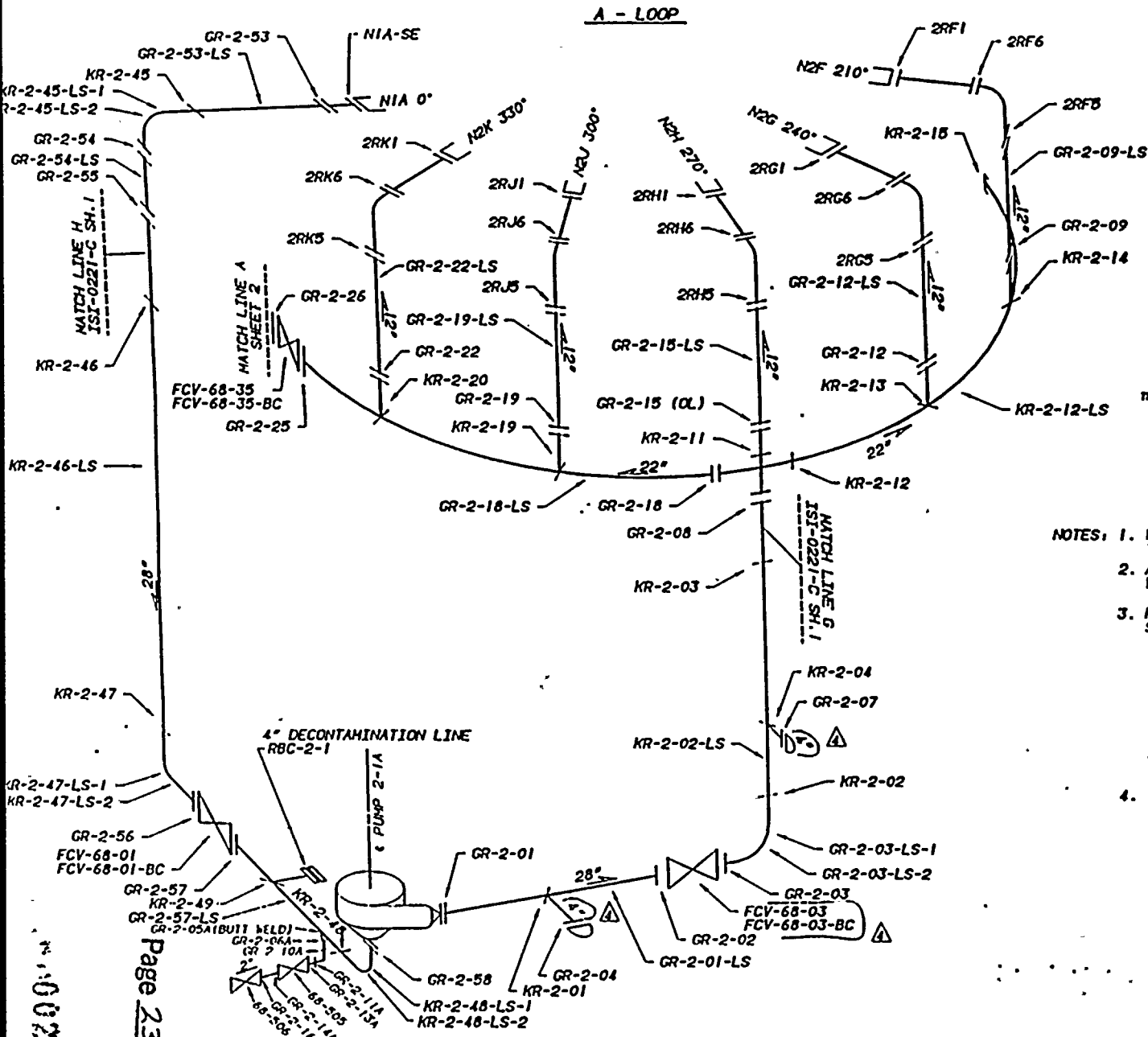
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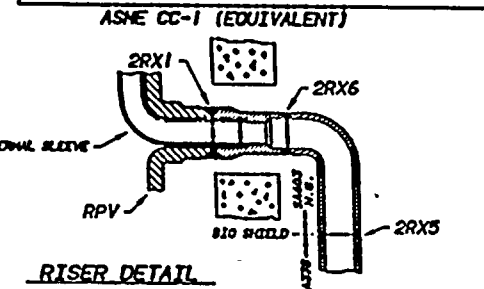
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REFERENCE DRAWING  
 47M2408-8,9 (S.E. A.)  
 GE 769E963 (S.E. REPL.)  
 TVA 47K1544-2  
 GE 1B3F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHM-2068-C ALL SHEETS

MATERIAL SPECIFICATIONS:  
 A358, TP 304  
 4" X 0.337" NOM. WALL THK. (SS)  
 12" X 0.569" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE  
 2" SCH. 80 A-376, TP304  
 2" FITTINGS A-182, F304  
 SAFE END REPLACEMENT  
 12" X 0.688 NOM. WALL THK. (SS)  
 SA 403 MP 316 N.G.



- NOTES:
1. WELDS 2RX1 ARE THE NOZZLE TO SAFE-END WELDS
  2. ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.
  3. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-ID (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)  
 THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHERMOST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)
  4. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

04	REV	6-15-92	DEL ONE BC NOTE FROM VALVE IDENTIFIER AND ADD 4" NOTE	APP	APP	APP
03	REV	3-13-92	ADD LONGSEAM IDENTIFIER NOTES	APC	JES	GLB
02	REV	9-20-91	DEL CADBLK, ADD 2" LINE, WTL. SPEC	JAA	JES	GLB
01	REV	3-28-89	REDRAWN INTO TWO SHEETS	JES	EDC	GLB
	REV	DATE	DESCRIPTION	CR'D	SLB	APP
HARDWARE: IBM SOBS SOFTWARE: CADAM USER: TSTOP						
TENNESSEE VALLEY AUTHORITY						
BROWNS FERRY NUCLEAR PLANT						
UNIT 2						
RECIRCULATION SYSTEM						
WELD LOCATIONS						
DRAWN: PAB	SCALE: MTS	DATE: 3-12-89	DATE: 6-12-84	DATE: 6-12-84	SHEET 1 OF 2 SHEET(S)	
CHECKED: JES	DATE: 6-12-88	EDC	GLB		DRAWING NO. TST-0270-C 04	

K = KELLOGG SHOP WELD  
 G = GE FIELD WELD  
 SYSTEM UNIT NO. WELD NO.

XR-N-N  
 WELD NO. UNIT NO. SYSTEM

2RXN  
 WELD NO. UNIT NO. SYSTEM RISER LETTER

NATIONAL BOARD NUMBER FOR WFT - NOT REQUIRED

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

1101 PARKER STREET  
 CHATTANOOGA, TENNESSEE 37402  
 DECATUR, ALABAMA 35602

100233

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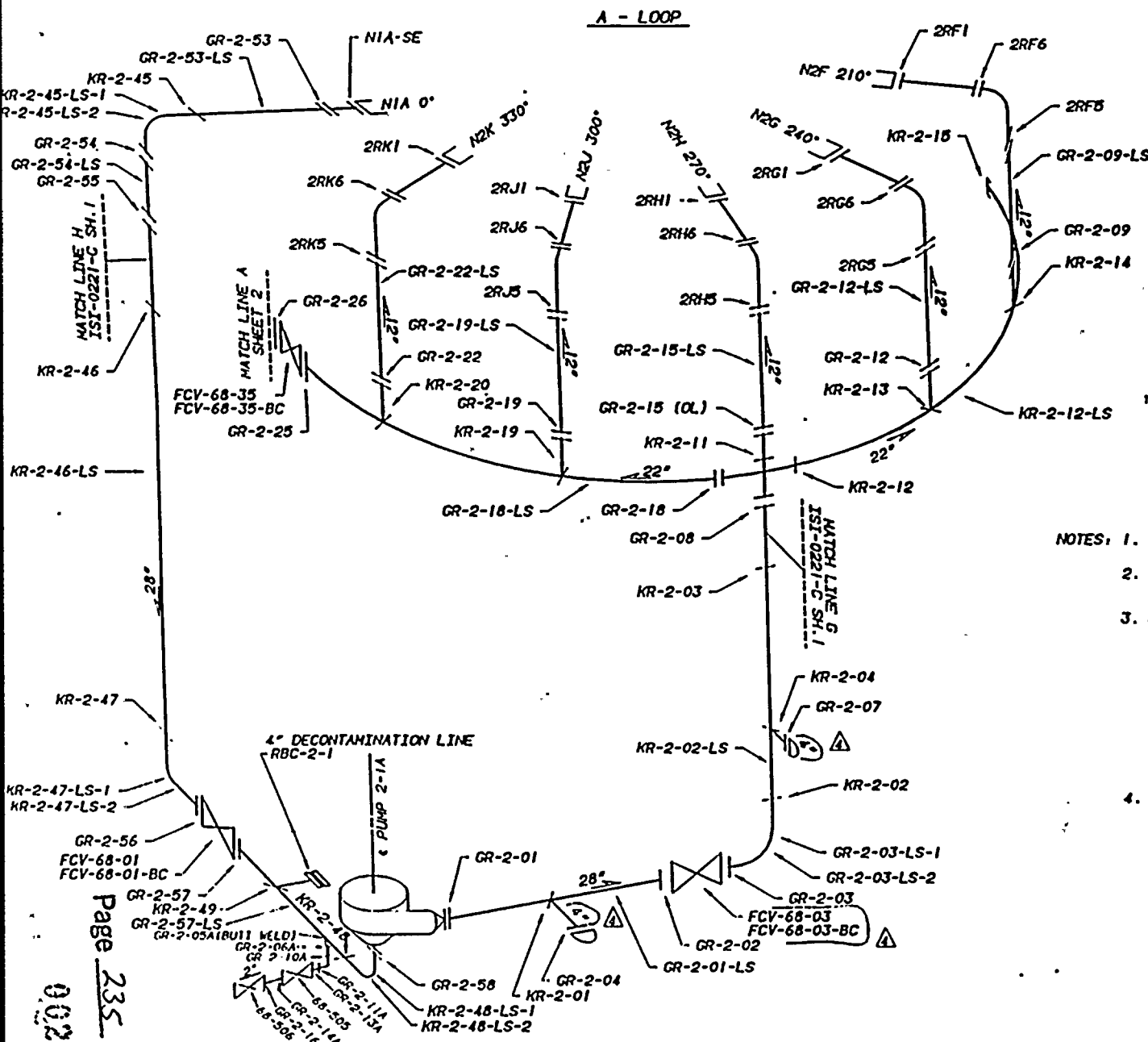


SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0270-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
KR-2-12	CROSS -PIPE	C NU0313	R00000231	C00000131	BF-57	UT-60L	19941004	PASS	NO			
KR-2-13	PIPE -BR CONN	C NU0313	R00000184	C00000102	BF-88	UT-45	19941009	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000184	C00000103	BF-88	UT-60L	19941009	PASS	NO		GEOMETRIC	NON-RELEVANT
KR-2-15	PIPE -CAP	C NU0313	R00000274	C00000144	BF-57	UT-45	19941012	PASS	NO			
KR-2-19	PIPE -BR CONN	C NU0313	R00000174	C00000086	BF-88	UT-45	19941010	PASS	NO			
			R00000174	C00000087	BF-88	UT-60L	19941010	PASS	NO			
KR-2-20	PIPE -BR CONN	C NU0313	R00000269	C00000171	BF-88	UT-45	19941016	PASS	NO			
			R00000269	C00000172	BF-88	UT-60L	19941016	PASS	NO			
KR-2-45	PIPE -ELBOW	C NU0313	R00000216	C00000134	BF-57	UT-45	19941004	PASS	NO			
KR-2-46	TEE -PIPE	C NU0313	R00000204	C00000132	BF-57	UT-45	19941011	PASS	NO			
			R00000204	C00000131	BF-57	UT-60L	19941004	PASS	NO			
KR-2-47	PIPE -ELBOW	C NU0313	R00000146	C00000132	BF-57	UT-45	19941011	PASS	NO		BEAM REDIREC	NON-RELEVANT
											GEOMETRIC	NON-RELEVANT
KR-2-48	PIPE -ELBOW	C NU0313	R00000127	C00000040	BF-57	UT-45	19941004	PASS	NO			
KR-2-49	PIPE -BR CONN	C NU0313	R00000130	C00000045	BF-59	UT-45	19941004	PASS	NO			

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
KR-2-49	PIPE -BR CONN	C NU0313	R00000130	C00000046	BF-59	UT-60L	19941004	PASS	NO			



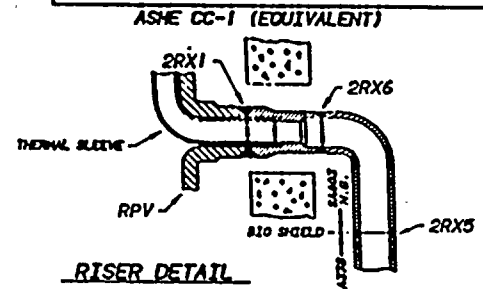


**REFERENCE DRAWING**  
 47N2408-8,9 (S.E. h.  
 GE 769E963 (S.E. REPL.  
 TVA 47K1544-2  
 GE 183F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHN-2068-C ALL SHEETS

**MATERIAL SPECIFICATIONS:**  
 A358, TP 304  
 4" X 0.337" NOM. WALL THK. (SS)  
 12" X 0.569" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE

2" SCH. 80 A-376, TP304  
 2" FITTINGS A-182, F304

SAFE END REPLACEMENT  
 12" X 0.688 NOM. WALL THK. (SS)  
 SA 403 WP 316 N.G.



- NOTES:**
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 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)
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 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

04	REV	6-3-77	DEL ONE BC NOTE FROM VALVE IDENTIFIER	APC	LES	CRB
03	REV	3-13-92	ADD 4" NOTES	APC	LES	CRB
02	REV	9-20-91	ADD LONGSEAM IDENTIFIER NOTES	JAA	LES	CRB
01	REV	3-28-89	DEL CADXX, ADD 2" LINE, WTL SPEC	JES	LES	CRB
REV	001	DATE	DRAWN INTO TWO SHEETS	JES	LES	CRB
			DESCRIPTION	CHN	SLB	APC
HARDWARE: IBM 5043			SOFTWARE: CADAM	USER: ISTDP		
TENNESSEE VALLEY AUTHORITY						
BROWNS FERRY NUCLEAR PLANT						
UNIT 2						
RECIRCULATION SYSTEM						
WELD LOCATIONS						
DRAWN BY	DESIGNED BY	APPROVED BY	SCALE	NOTE		
EDC	GLB	GLB	1/2"	SHELL OF 2 SHEETS		
DATE: 6-12-88	DATE: 3-15-88	DATE: 2-14-88		DRAWING NO.		
				TVA-47K1544-2		
				TVA-47K1544-2		

K = KELLOGG SHOP WELD  
 G = GE FIELD WELD

XR-N-N WELD NO.  
 2RXN WELD NO.

UNIT NO.  
 SYSTEM

UNIT NO.  
 SYSTEM

RISER LETTER

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

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

TOTAL PROJECT SHEETS: 27  
 CHATTANOOGA, TENNESSEE 37402  
 GEORATOR, ALABAMA, 35002



1887

SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0270-C SHEET : 02

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
GR-2-27	PUMP -PIPE	C MU0313	R00000176	C00000076	BF-57	UT-45	19941007	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000176	C00000134	BF-57	UT-45	19941004	PASS	NO			
			R00000176	C00000058	BF-57	UT-60L	19941007	PASS	NO			
GR-2-28	PIPE -VALVE	C MU0313	R00000178	C00000091	BF-57	UT-45	19941008	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000178	C00000134	BF-57	UT-45	19941004	PASS	NO			
			R00000178	C00000092	BF-57	UT-60L	19941008	PASS	NO			
			R00000178	C00000127	BF-57	UT-60L	19941004	PASS	NO			
			R00000178	C00000127	BF-57	UT-60L	19941004	PASS	NO			
GR-2-29	VALVE -ELBOW	C MU0313	R00000286	C00000195	BF-57	UT-45	19941013	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000286	C00000134	BF-57	UT-45	19941004	PASS	NO			
			R00000286	C00000196	BF-57	UT-60L	19941013	PASS	NO			
			R00000286	C00000127	BF-57	UT-60L	19941004	PASS	NO			
GR-2-30	BR CONN -CAP	C MU0313	R00000170	C00000082	BF-41	UT-45	19941007	PASS	NO			
			R00000170	C00000083	BF-41	UT-60L	19941007	PASS	NO			
GR-2-33	BR CONN -CAP	C MU0313	R00000171	C00000082	BF-41	UT-45	19941007	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000171	C00000083	BF-41	UT-60L	19941007	PASS	NO			
GR-2-34	TEE -CROSS	C MU0313	R00000245	C00000161	BF-44	UT-45	19941012	PASS	NO			
			R00000245	C00000162	BF-44	UT-45L	19941012	PASS	NO			
GR-2-35	SWPOLET -PIPE	C MU0313	R00000289	C00000226	BF-79	UT-45	19941014	PASS	NO			

SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0270-C SHEET : 02

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
GR-2-35	SWPOLET -PIPE	C MU0313	R00000289	C00000227	BF-79	UT-60L	19941014	PASS	NO			
GR-2-38	SWPOLET -PIPE	C MU0313	R00000327	C00000239	BF-79	UT-45	19941021	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000327	C00000226	BF-79	UT-45	19941014	PASS	NO			
			R00000327	C00000240	BF-79	UT-60L	19941021	PASS	NO			
			R00000327	C00000227	BF-79	UT-60L	19941014	PASS	NO			
GR-2-41	PIPE -PIPE	C MU0313	R00000288	C00000226	BF-79	UT-45	19941014	PASS	NO			
			R00000288	C00000227	BF-79	UT-60L	19941014	PASS	NO			
GR-2-44	CROSS -PIPE	C MU0313	R00000321	C00000224	BF-57	UT-45	19941014	PASS	NO			
			R00000321	C00000225	BF-57	UT-60L	19941014	PASS	NO			
GR-2-45(OL)	OVERLAY	E MU0313	R00000356	C00000256	BF-50	UT-CRP	19941019	PASS	NO			
			R00000356	C00000257	BF-50	UT-0	19941019	PASS	NO			
			R00000356	C00000255	BF-50	UT-60L	19941019	PASS	NO			
GR-2-48	SWPOLET -PIPE	C MU0313	R00000287	C00000197	BF-79	UT-45	19941018	PASS	NO			
			R00000287	C00000226	BF-79	UT-45	19941014	PASS	NO			
			R00000287	C00000198	BF-79	UT-60L	19941018	PASS	NO			
			R00000287	C00000227	BF-79	UT-60L	19941014	PASS	NO			
GR-2-51	PIPE -VALVE	C MU0313	R00000270	C00000173	BF-88	UT-45	19941016	PASS	NO			
			R00000270	C00000174	BF-88	UT-60L	19941016	PASS	NO			
GR-2-52	VALVE -PIPE	C MU0313	R00000290	C00000201	BF-57	UT-45	19941019	PASS	NO			
			R00000290	C00000202	BF-57	UT-60L	19941019	PASS	NO			
GR-2-59(OL)	OVERLAY	E MU0313	R00000357	C00000259	BF-83	UT-CRP	19941019	PASS	NO			

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00236

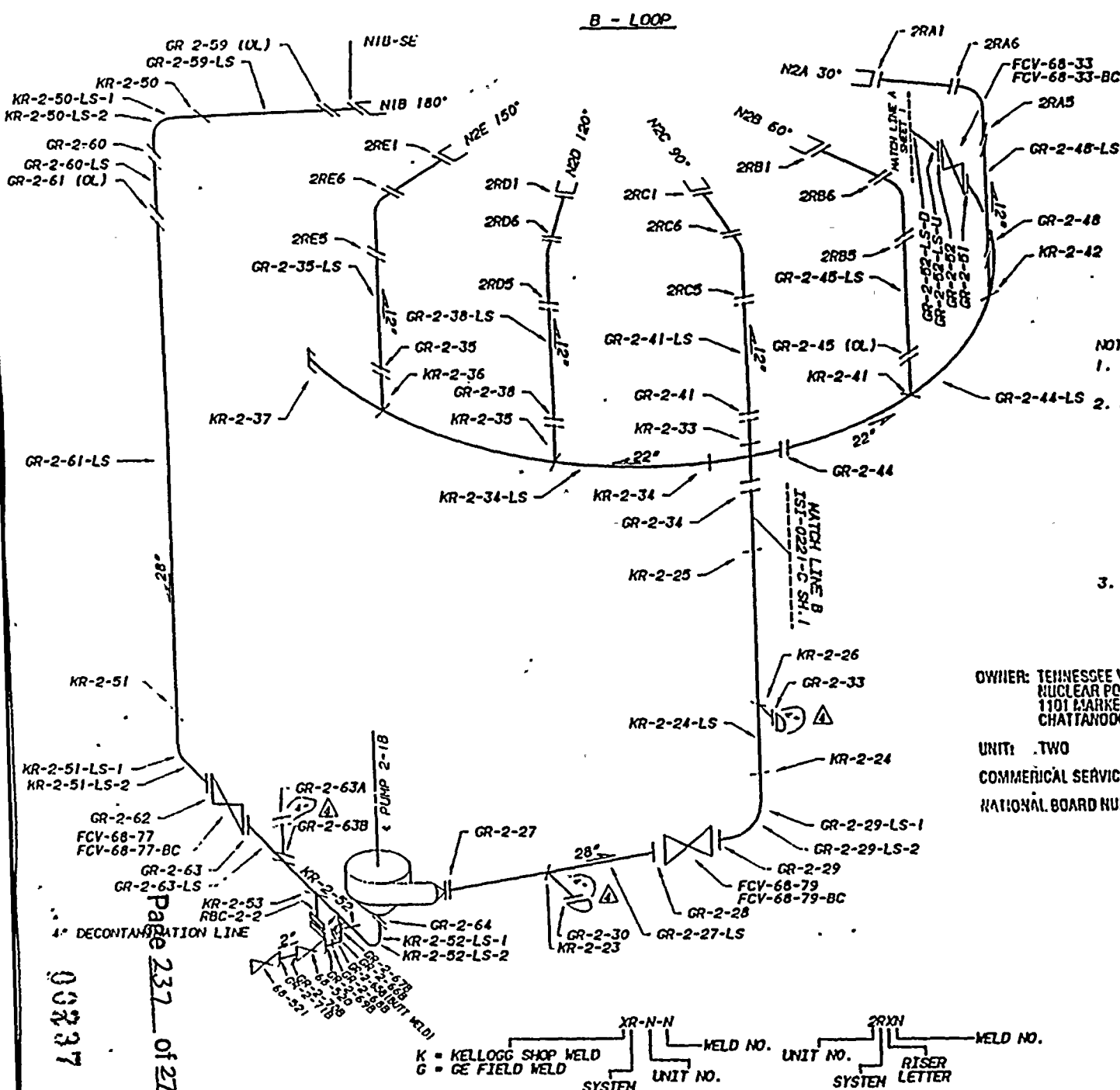


1. 10

1000 1000

1000 1000





REFERENCE DRAW.  
 47N2408-8,9 (S.E. .ENT)  
 GE 769E963 (S.E. REPLACEMENT)  
 TVA 47K1844-2  
 GE 153F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPPLASEDES  
 CHN-2068-C ALL SHEETS

MATERIAL SPECIFICATIONS:  
 A308, TP 304  
 4" X 0.337" NOM WALL THK. (SS)  
 12" X 0.869" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE

2" SCH. 80, A376, TP304  
 2" FITTINGS A182,F304

SAFE END REPLACEMENT  
 12" X 0.688 NOM. WALL THK. (SS)  
 SA 403 MP 316 N.G.

ASME CC-1 (EQUIVALENT)

- NOTES:
- ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.
  - PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-ID (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)  
 THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHERMOST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)
  - PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REV	DATE	DESCRIPTION	CHK'D	APP'D
04	11-9-79	ADD 4" LINE SIZES		
03	3-13-79	ADD LONGSEAM IDENTIFIER NOTES MODIFY LONGSEAM WELD ID'S	APP	LES
02	9-20-77	DEL CADRLX, ADD 3" LINE, MATL. SPEC	JAA	LES
01	11-9-69	CORRECT VALVE NO. FCV-68-79	LES	EDC
REV BY	DATE	DESCRIPTION	CHK'D	APP'D
MARONARE, JBM	5-23-79	SOFTWARE - CADAM	USER: JSTONP	

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 RECIRCULATION SYSTEM  
 WELD LOCATIONS

DRAWN	DATE	APPROVED	DATE	SCALE	NTS
EDC	3-28-79	GLB	3-28-79	1" = 20' (1/2")	1 OF 2 SHEETS
DESIGNED BY	DATE	TRAVELING	DATE		
EDC	3-28-79	GLB	3-28-79		

K = KELLOGG SHOP WELD  
 G = GE FIELD WELD

XR-N-N WELD NO.  
 UNIT NO.

2RXXI WELD NO.  
 SYSTEM RISER LETTER

00237  
 Page 237 of 271

SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0270-C SHEET : 02

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
GR-2-59(OL)	OVERLAY	E NU0313	R00000357	C00000257		UT-0	19941019	PASS	NO			
			R00000357	C00000258	BF-83	UT-60L	19941019	PASS	NO			
GR-2-60	ELBOW -PIPE	C NU0313	R00000348	C00000249		UT-SIZ	19941021	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000348	C00000250		UT-SIZ	19941021	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000348	C00000251		UT-SIZ	19941021	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000348	C00000252		UT-SIZ	19941021	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000348	C00000248	BF-65	UT-45	19941021	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000348	C00000224	BF-57	UT-45	19941014	PASS	NO		GEOMETRIC	NON-RELEVANT
GR-2-61(OL)	OVERLAY	E NU0313	R00000358	C00000262	BF-83	UT-CRP	19941020	PASS	NO			
			R00000358	C00000260		UT-0	19941020	PASS	NO			
			R00000358	C00000261	BF-83	UT-60L	19941020	PASS	NO			
GR-2-62	ELBOW -VALVE	C NU0313	R00000147	C00000057	BF-57	UT-45	19941007	PASS	NO			
			R00000147	C00000134	BF-57	UT-45	19941004	PASS	NO			
			R00000147	C00000058	BF-57	UT-60L	19941007	PASS	NO			
			R00000147	C00000127	BF-57	UT-60L	19941004	PASS	NO		GEOMETRIC	NON-RELEVANT
GR-2-63	VALVE -PIPE	C NU0313	R00000175	C00000076	BF-57	UT-45	19941007	PASS	NO			
			R00000175	C00000134	BF-57	UT-45	19941004	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000175	C00000077	BF-57	UT-60L	19941007	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000175	C00000127	BF-57	UT-60L	19941004	PASS	NO		GEOMETRIC	NON-RELEVANT
GR-2-63A	BR CONN -CAP	C NU0313	R00000192	C00000107	BF-59	UT-30	19941008	PASS	NO			

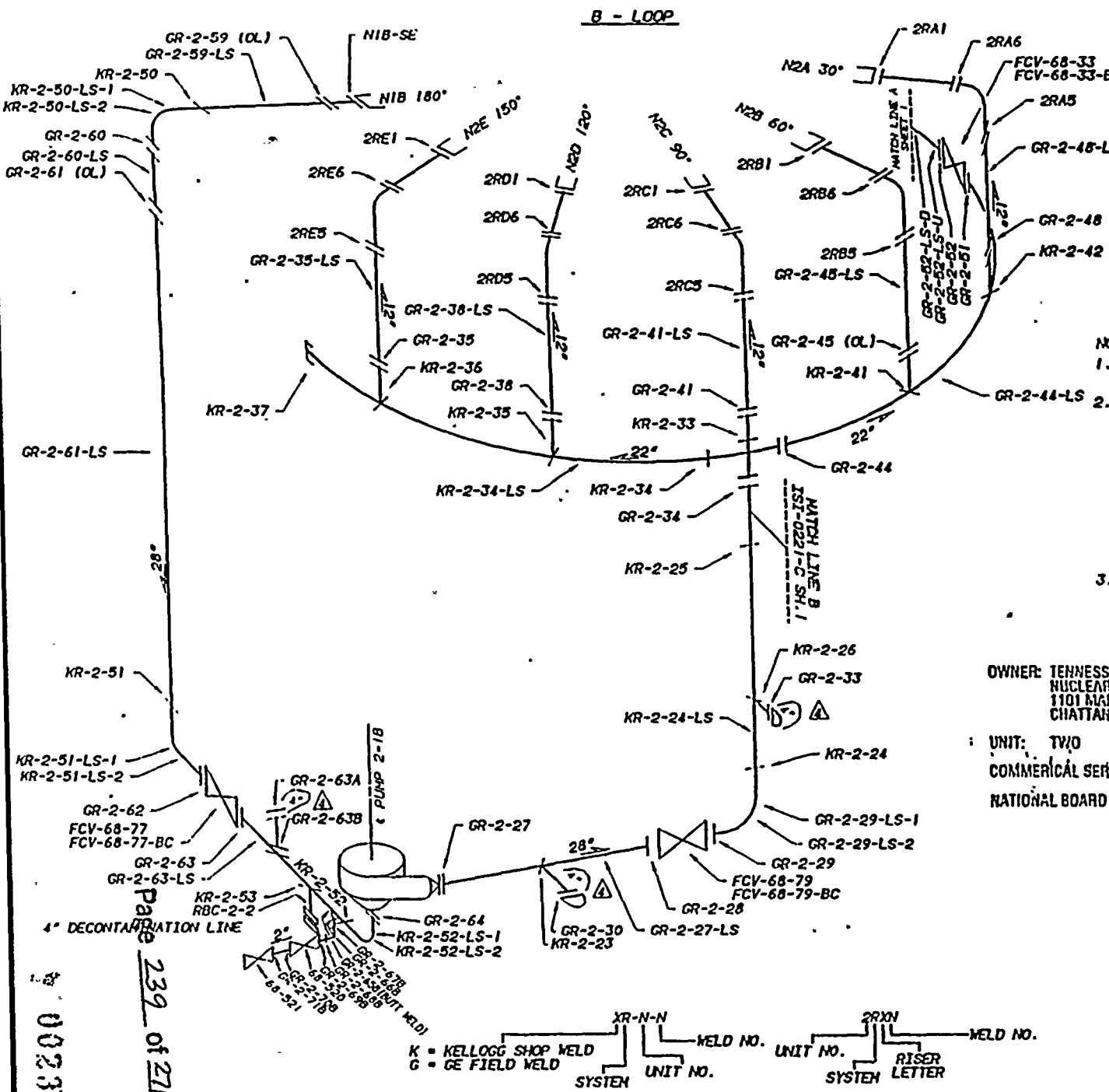
SYSTEM : RECIR REACTOR WATER RECIRCULATING SYSTEM - 068  
 ISOMETRIC NUMBER : ISI-0270-C SHEET : 02

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
GR-2-63A	BR CONN -CAP	C NU0313	R00000192	C00000106	BF-59	UT-45	19941008	PASS	NO		GEOMETRIC	NON-RELEVANT
GR-2-63B	PIPE -BR CONN	C NU0313	R00000203	C00000115	BF-59	UT-30	19941007	PASS	NO			
			R00000203	C00000116	BF-59	UT-45	19941007	PASS	NO			
			R00000203	C00000113	BF-59	UT-45L	19941007	PASS	NO			
			R00000203	C00000114	BF-59	UT-60L	19941007	PASS	NO			
GR-2-64	ELBOW -PUMP	C NU0313	R00000165	C00000074		UT-SIZ	19941009	FAIL	NO		IGSCC	OVERLAY
			R00000165	C00000075		UT-SIZ	19941009	FAIL	NO		IGSCC	OVERLAY
			R00000165	C00000125		UT-SIZ	19941011	FAIL	NO		IGSCC	OVERLAY
			R00000165	C00000124		UT-SIZ	19941011	FAIL	NO		IGSCC	OVERLAY
			R00000165	C00000123		UT-SIZ	19941011	FAIL	NO		IGSCC	OVERLAY
			R00000165	C00000126		UT-SIZ	19941010	FAIL	NO		IGSCC	OVERLAY
			R00000165	C00000134	BF-57	UT-45	19941004	FAIL	NO		IGSCC	OVERLAY
			R00000165	C00000127	BF-57	UT-60L	19941004	FAIL	NO		IGSCC	OVERLAY
											IGSCC	OVERLAY
KR-2-23	PIPE -BR CONN	C NU0313	R00000202	C00000115	BF-59	UT-30	19941007	PASS	NO			
			R00000202	C00000116	BF-59	UT-45	19941007	PASS	NO			
			R00000202	C00000113	BF-59	UT-45L	19941007	PASS	NO			
			R00000202	C00000114	BF-59	UT-60L	19941007	PASS	NO			
KR-2-24	ELBOW -PIPE	C NU0313	R00000207	C00000134	BF-57	UT-45	19941004	PASS	NO			
KR-2-25	PIPE -TEE	C NU0313	R00000246	C00000163	BF-90	UT-45	19941016	PASS	NO			



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REFERENCE DRAW.  
 47N2408-B.9 (S.E. 2NT)  
 GE 749E964 (S.E. REPLACEMENT)  
 TVA 47N1544-2  
 GE 153F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHN-2068-C ALL SHEETS

MATERIAL SPECIFICATIONS:  
 A358, TP 304  
 4" X 0.337" NOM. WALL THK. (SS)  
 12" X 0.669" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.38" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE

2" SCH. 80, A376, TP304  
 2" FITTINGS A182, F304

SAFE END REPLACEMENT  
 12" X 0.668 NOM. WALL THK. (SS)  
 SA 403 MP 316 N.G.

ASME CC-1 (EQUIVALENT)

NOTES:  
 1. ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.  
 2. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-ID (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)  
 THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHERMOST FROM 0° ON THE PIPE. (i.e. -LS-1 AT 130°, AND -LS-2 AT 310°)  
 3. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

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

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

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 MK  
 104

REV	BY	DATE	DESCRIPTION	CHK'D	APP'D
04	YH	11-9-77	ADD 4" LINE SIZES		
03	YH	3-13-77	ADD LONGSEAM IDENTIFIER NOTES MODIFY LONGSEAM WELD ID'S	MP	JES GLB
02	YH	7-20-71	DEL CADDLX, ADD 2" LINE, MATL. SPEC.	JAA	JES GLB
01	YH	11-9-69	CORRECT VALVE NO. FCV-68-79	JES	EDC GLB

HARDWARE: IBM 5045 SOFTWARE: CADAM USER: JST/MP

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 RECIRCULATION SYSTEM  
 WELD LOCATIONS

DRWN	CHK'D	APPROV'D	SCALE
YH	JES	JAA	AS SHOWN

DATE	DATE	DATE	SHEET # OF # SHEETS
3-24-77	3-24-77	3-24-77	2 OF 2

DESIGNED	CHK'D	DATE
JES	GLB	8-3-77

DRAWING NO. 47N1544-2  
 SHEET NO. 2

Page 239 of 271  
 00239

K = KELLOGG SHOP WELD  
 G = GE FIELD WELD  
 SYSTEM UNIT NO. WELD NO.  
 SYSTEM UNIT NO. WELD NO.  
 RISER LETTER



1970

1970

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
KR-2-25	PIPE -TEE	C NU0313	R00000246	C00000164	BF-90	UT-60L	19941016	PASS	NO		GEOMETRIC	NON-RELEVANT
KR-2-26	PIPE -BR CONN	C NU0313	R00000201 R00000201 R00000201 R00000201	C00000115 C00000116 C00000113 C00000114	BF-59 BF-59 BF-59 BF-59	UT-30 UT-45 UT-45L UT-60L	19941007 19941007 19941007 19941007	PASS PASS PASS PASS	NO NO NO NO			
KR-2-33	CROSS -PIPE	C NU0313	R00000315 R00000315	C00000219 C00000220	BF-44 BF-44	UT-45 UT-60L	19941019 19941019	PASS PASS	NO NO			
KR-2-34	CROSS -PIPE	C NU0313	R00000291 R00000291	C00000203 C00000204	BF-57 BF-57	UT-45 UT-60L	19941018 19941018	PASS PASS	NO NO		GEOMETRIC	NON-RELEVANT
KR-2-35	PIPE -BR CONN	C NU0313	R00000283 R00000283	C00000185 C00000184	BF-85 BF-88	UT-45 UT-60L	19941017 19941017	PASS PASS	NO NO			
KR-2-42	PIPE -BR CONN	C NU0313	R00000367 R00000367 R00000367 R00000367 R00000367 R00000367 R00000367 R00000367 R00000367 R00000367	C00000268 C00000269 C00000270 C00000271 C00000248 C00000264 C00000266 C00000267 C00000265		UT-SIZ UT-SIZ UT-SIZ UT-SIZ BF-65 BF-88 BF-88 BF-88 BF-88 BF-88	19941021 19941021 19941021 19941021 19941021 19941019 19941020 19941020 19941020 19941019	PASS PASS PASS PASS PASS PASS PASS PASS PASS PASS	NO NO NO NO NO NO NO NO NO NO	GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT NON-RELEVANT NON-RELEVANT NON-RELEVANT NON-RELEVANT NON-RELEVANT NON-RELEVANT NON-RELEVANT NON-RELEVANT	
KR-2-50	PIPE -ELBOW	C NU0313	R00000406	C00000294	BF-57	UT-45	19941024	PASS	NO		GEOMETRIC	NON-RELEVANT

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
KR-2-50	PIPE -ELBOW	C NU0313	R00000406 R00000406	C00000224 C00000295	BF-57 BF-57	UT-45 UT-60L	19941014 19941024	PASS PASS	NO NO		GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT
KR-2-51	PIPE -ELBOW	C NU0313	R00000208 R00000208 R00000208 R00000208	C00000119 C00000134 C00000120 C00000127	BF-57 BF-57 BF-57 BF-57	UT-45 UT-45 UT-60L UT-60L	19941011 19941004 19941011 19941004	PASS PASS PASS PASS	NO NO NO NO		GEOMETRIC GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT NON-RELEVANT
KR-2-52	PIPE -ELBOW	C NU0313	R00000162	C00000073	BF-57	UT-45	19941007	PASS	NO			
KR-2-53	PIPE -BR CONN	C NU0313	R00000156 R00000156	C00000069 C00000070	BF-59 BF-59	UT-45 UT-60L	19941005 19941005	PASS PASS	NO NO			
ZRC5	PIPE -ELBOW	A NU0313	R00000314 R00000314	C00000217 C00000218	BF-79 BF-79	UT-45 UT-45	19941019 19941019	PASS PASS	NO NO		GEOMETRIC GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT NON-RELEVANT
ZRC6	ELBOW -SAFEEND	A NU0313	R00000280	C00000226	BF-79	UT-45	19941014	PASS	NO			

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  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 00240









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SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : ISI-0221-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DRHR-2-03	VALVE -PIPE	D NJ0313	R00000117 R00000117 R00000117	C00000028 C00000027 C00000026	BF-89 BF-89 BF-89	UT-45 UT-45L UT-60	19940927 19940927 19940927	PASS PASS PASS	NO NO NO		GEOMETRIC	NON-RELEVANT
DRHR-2-03B	PIPE -PENPIPE	G NJ0313	R00000459			VT-2	19941110	PASS	NO			
DRHR-2-04	PEPIPE -ELBOW	C NJ0313	R00000354	C00000253	BF-57	UT-45	19941021	PASS	NO			
DRHR-2-05	ELBOW -VALVE	C NJ0313	R00000421 R00000421	C00000305 C00000304	BF-57 BF-57	UT-45 UT-60L	19941021 19941021	PASS PASS	NO NO			
DRHR-2-06	VALVE -PIPE	C NJ0313	R00000412 R00000412	C00000299 C00000300	BF-57 BF-57	UT-45 UT-60L	19941024 19941024	PASS PASS	NO NO			
DRHR-2-07	ELBOW -VALVE	C NJ0313	R00000403 R00000403 R00000403	C00000224 C00000237 C00000225	BF-57 BF-57 BF-57	UT-45 UT-45 UT-60L	19941014 19941021 19941014	PASS PASS PASS	NO NO NO			
DRHR-2-08	VALVE -PIPE	C NJ0313	R00000319 R00000319 R00000319 R00000319	C00000231 C00000134 C00000230 C00000228	BF-57 BF-57 BF-57 BF-57	UT-45 UT-45 UT-60L UT-60L	19941017 19941004 19941017 19941012	PASS PASS PASS PASS	NO NO NO NO			
DRHR-2-09	PIPE -PIPE	E NJ0313	R00000318 R00000318 R00000318 R00000318 R00000318 R00000318	C00000233 C00000234 C00000235 C00000236 C00000229 C00000228	BF-44 BF-44 BF-44 BF-44 BF-57 BF-57	UT-SIZ UT-SIZ UT-SIZ UT-SIZ UT-45 UT-60L	19941018 19941018 19941018 19941018 19941017 19941017	PASS PASS PASS PASS PASS PASS	NO NO NO NO NO NO		GEOMETRIC GEOMETRIC IGSCC GEOMETRIC IGSCC	NON-RELEVANT NON-RELEVANT EVALUATED,OK NON-RELEVANT EVALUATED,OK

SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : ISI-0221-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DRHR-2-12	VALVE -PIPE	D NJ0313	R00000116 R00000116 R00000116	C00000028 C00000027 C00000026	BF-89 BF-89 BF-89	UT-45 UT-45L UT-60	19940927 19940927 19940927	PASS PASS PASS	NO NO NO		GEOMETRIC	NON-RELEVANT
DRHR-2-13	PENPIPE -ELBOW	C NJ0313	R00000173 R00000173	C00000085 C00000084	BF-57 BF-57	UT-45 UT-60L	19941010 19941010	PASS PASS	NO NO			
DRHR-2-13B	PIPE -PENPIPE	C NJ0313	R00000459			VT-2	19941110	PASS	NO			
DRHR-2-14	ELBOW -VALVE	C NJ0313	R00000159 R00000159	C00000071 C00000072	BF-57 BF-57	UT-45 UT-60L	19941008 19941008	PASS PASS	NO NO			
DRHR-2-15	VALVE -PIPE	C NJ0313	R00000205 R00000205 R00000205 R00000205	C00000118 C00000132 C00000117 C00000131	BF-57 BF-57 BF-57 BF-57	UT-45 UT-45 UT-60L UT-60L	19941011 19941011 19941011 19941004	PASS PASS PASS PASS	NO NO NO NO		SPOT IND.	NON-RELEVANT
DRHR-2-16	ELBOW -VALVE	C NJ0313	R00000206 R00000206 R00000206 R00000206	C00000118 C00000132 C00000117 C00000131	BF-57 BF-57 BF-57 BF-57	UT-45 UT-45 UT-60L UT-60L	19941011 19941011 19941011 19941004	PASS PASS PASS PASS	NO NO NO NO		SPOT IND.	NON-RELEVANT
DRHR-2-17	VALVE -PIPE	C NJ0313	R00000276 R00000276 R00000276	C00000182 C00000134 C00000228	BF-57 BF-57 BF-57	UT-45 UT-45 UT-60L	19941016 19941004 19941012	PASS PASS PASS	NO NO NO			
DRHR-2-18	PIPE -PIPE	C NJ0313	R00000277 R00000277 R00000277	C00000182 C00000134 C00000228	BF-57 BF-57 BF-57	UT-45 UT-45 UT-60L	19941016 19941004 19941012	PASS PASS PASS	NO NO NO			
DRHR-2-19	PIPE -TEE	C NJ0313	R00000292	C00000205	BF-57	UT-45	19941019	PASS	NO			



PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:

(BASE WELD NO.)-LS-1D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)

THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)

PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:

(BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

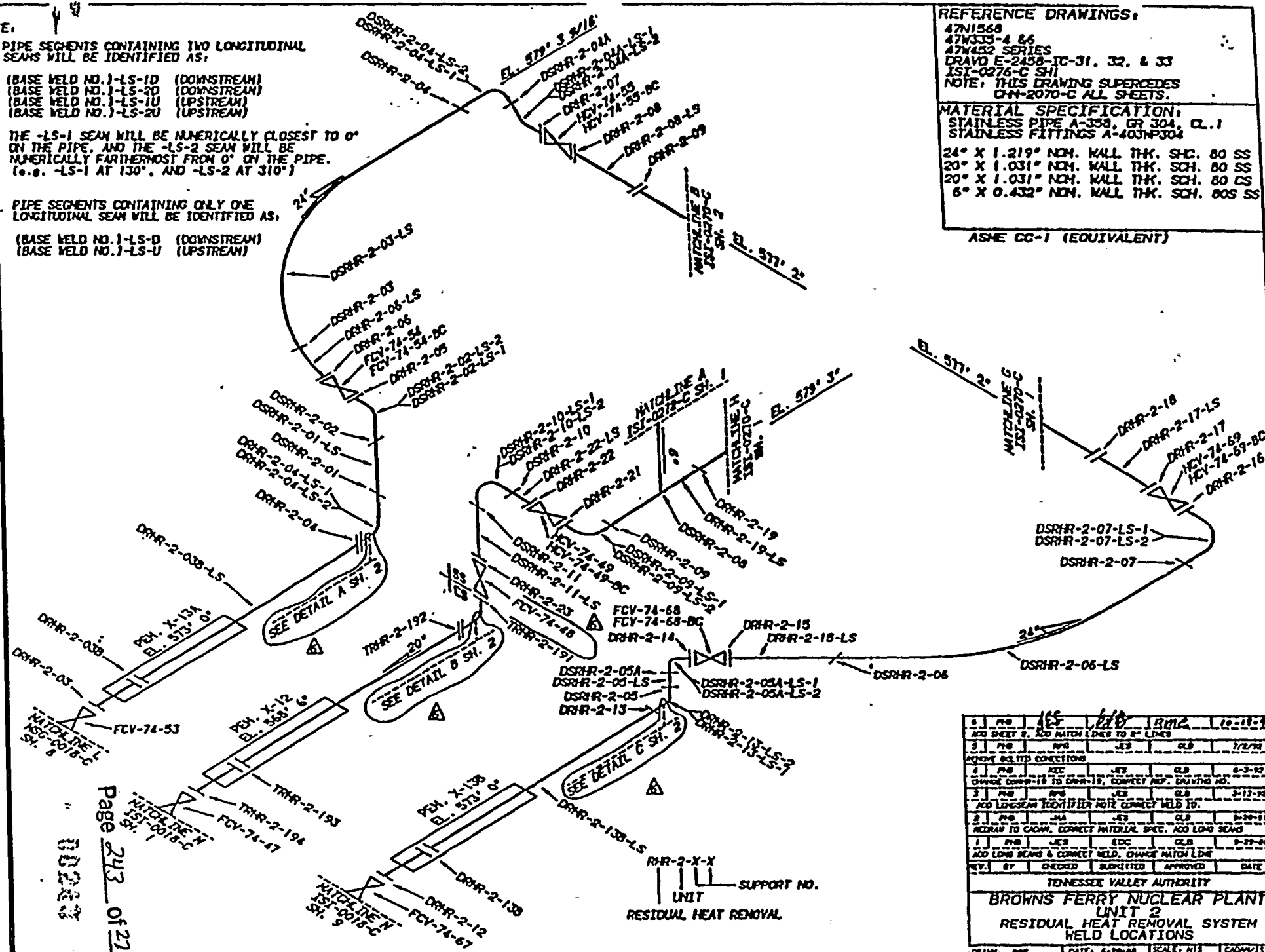
REFERENCE DRAWINGS:

47N1568  
 47N335-4 & 6  
 47N482 SERIES  
 DRAVO E-2458-TC-31, 32, & 33  
 ISI-0276-C SH1  
 NOTE: THIS DRAWING SUPERCEDES  
 CHN-2070-C ALL SHEETS.

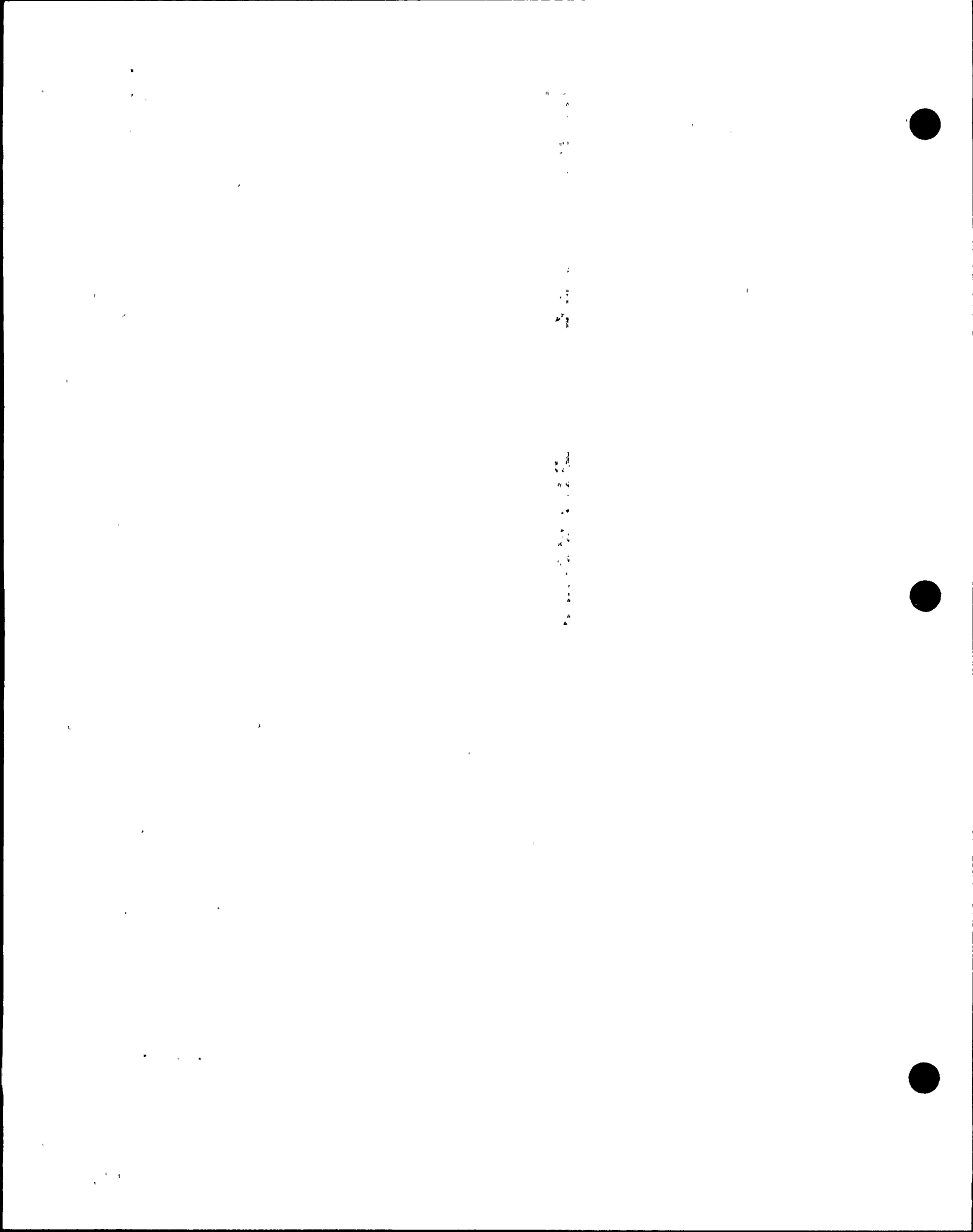
MATERIAL SPECIFICATION:

STAINLESS PIPE A-358, GR 304, CL.1  
 STAINLESS FITTINGS A-403HP304  
 24" X 1.219" NOM. WALL THK. SCH. 80 SS  
 20" X 1.031" NOM. WALL THK. SCH. 80 SS  
 20" X 1.031" NOM. WALL THK. SCH. 80 CS  
 6" X 0.432" NOM. WALL THK. SCH. 80S SS

ASME CC-1 (EQUIVALENT)



1	REV	165	1/10	RMZ	10-11-74
2	ADD SHEET 2, ADD MATCH LINES TO 2" LINES				
3	REV	165	LES	GLB	7/2/75
IMPROVE BOLTED CONNECTIONS					
4	REV	165	LES	GLB	6-3-77
CHANGE CORR-19 TO CORR-19, CORRECT REF. DRAWING NO.					
5	REV	165	LES	GLB	3-13-80
ADD LONGSEAM IDENTIFIER MORE CORRECT WELD ID.					
6	REV	165	LES	GLB	8-29-81
REDRAW TO SHOW, CORRECT MATERIAL SPEC, ADD LONG SEAMS					
7	REV	165	LES	GLB	8-27-88
ADD LONG SEAMS & CORRECT WELD, CHANGE MATCH LINE					
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT 2					
RESIDUAL HEAT REMOVAL SYSTEM					
WELD LOCATIONS					
DRAWN	REV	DATE	SCALE	NO.	OF
		6-20-88	NIS	13	27



\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : B02-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : ISI-0221-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DRHR-2-19	PIPE -TEE	C NU0313	R00000292	C00000206	BF-57	UT-60L	19941019	PASS	NO			
DRHR-2-21	ELBOW -VALVE	C NU0313	R00000402	C00000285	BF-57	UT-45	19941020	PASS	NO			
			R00000402	C00000289	BF-57	UT-45	19941021	PASS	NO			
			R00000402	C00000229	BF-57	UT-45	19941017	PASS	NO			
			R00000402	C00000284	BF-57	UT-60L	19941020	PASS	NO			
			R00000402	C00000288	BF-57	UT-60L	19941021	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000402	C00000228	BF-57	UT-60L	19941012	PASS	NO			
DRHR-2-22	VALVE -PIPE	E NU0313	R00000407	C00000280		UT-SIZ	19941021	PASS	NO		IGSCC	EVALUATED,OK
			R00000369	C00000281		UT-SIZ	19941021	PASS	NO		IGSCC	EVALUATED,OK
			R00000407	C00000282	BF-89	UT-SIZ	19941021	PASS	NO		IGSCC	EVALUATED,OK
			R00000407	C00000283		UT-SIZ	19941021	PASS	NO		IGSCC	EVALUATED,OK
			R00000407	C00000285	BF-57	UT-45	19941020	PASS	NO		IGSCC	EVALUATED,OK
			R00000407	C00000248	BF-65	UT-45	19941021	PASS	NO		GEOMETRIC	NON-RELEVANT
											GEOMETRIC	NON-RELEVANT
			R00000407	C00000229	BF-57	UT-45	19941017	PASS	NO		IGSCC	EVALUATED,OK
			R00000407	C00000284	BF-57	UT-60L	19941020	PASS	NO			
DRHR-2-23	PIPE -VALVE	C NU0313	R00000326	C00000237	BF-57	UT-45	19941021	PASS	NO			
			R00000326	C00000229	BF-57	UT-45	19941018	PASS	NO			
			R00000326	C00000228	BF-57	UT-60L	19941012	PASS	NO		GEOMETRIC	NON-RELEVANT
DSRHR-2-01	ELBOW -PIPE	C NU0313	R00000328	C00000229	BF-57	UT-45	19941018	PASS	NO			
DSRHR-2-02	PIPE -ELBOW	C NU0313	R00000400	C00000229	BF-57	UT-45	19941018	PASS	NO			
DSRHR-2-03	PIPE -ELBOW	C NU0313	R00000415	C00000301	BF-57	UT-45	19941024	PASS	NO			

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : B02-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : ISI-0221-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DSRHR-2-04	ELBOW -ELBOW	C NU0313	R00000282	C00000183	BF-89	UT-45	19941018	PASS	NO			
DSRHR-2-04A	ELBOW -ELBOW	C NU0313	R00000355	C00000254	BF-57	UT-45	19941021	PASS	NO			
DSRHR-2-05	ELBOW -PIPE	C NU0313	R00000160	C00000071	BF-57	UT-45	19941008	PASS	NO			
			R00000160	C00000072	BF-57	UT-60L	19941008	PASS	NO			
DSRHR-2-05A	PIPE -ELBOW	C NU0313	R00000161	C00000071	BF-57	UT-45	19941008	PASS	NO			
			R00000161	C00000072	BF-57	UT-60L	19941008	PASS	NO			
DSRHR-2-06	PIPE -ELBOW	C NU0313	R00000230	C00000134	BF-57	UT-45	19941004	PASS	NO			
DSRHR-2-07	PIPE -ELBOW	C NU0313	R00000232	C00000134	BF-57	UT-45	19941004	PASS	NO			
DSRHR-2-08	PRCC, T-PC, PIPE	C NU0313	R00000298	C00000205	BF-57	UT-45	19941019	PASS	NO			
			R00000298	C00000207	BF-57	UT-45	19941018	PASS	NO			
			R00000298	C00000206	BF-57	UT-60L	19941019	PASS	NO			
			R00000298	C00000208	BF-57	UT-60L	19941018	PASS	NO			
DSRHR-2-09	TEE -ELBOW	C NU0313	R00000347	C00000246	BF-57	UT-45	19941018	PASS	NO		GEOMETRIC	NON-RELEVANT
											GEOMETRIC	NON-RELEVANT
DSRHR-2-10	PIPE -ELBOW	C NU0313	R00000404	C00000285	BF-57	UT-45	19941020	PASS	NO			
			R00000404	C00000229	BF-57	UT-45	19941018	PASS	NO			
DSRHR-2-11	ELBOW -PIPE	C NU0313	R00000399	C00000289	BF-57	UT-45	19941021	PASS	NO			

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  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 00244

1944

1944

NOTE:

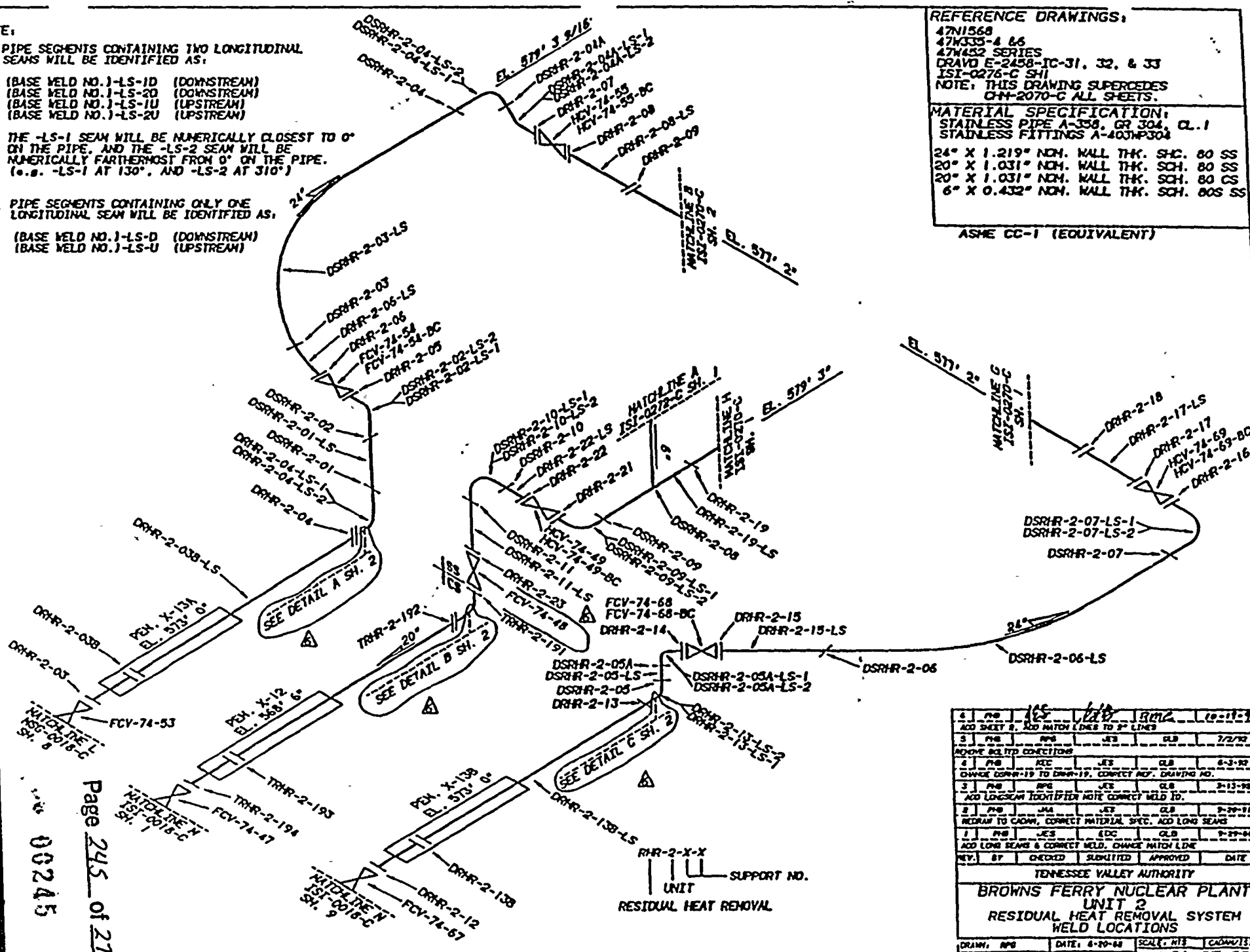
1. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:

- (BASE WELD NO.)-LS-1D (DOWNSTREAM)
- (BASE WELD NO.)-LS-2D (DOWNSTREAM)
- (BASE WELD NO.)-LS-1U (UPSTREAM)
- (BASE WELD NO.)-LS-2U (UPSTREAM)

THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)

2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:

- (BASE WELD NO.)-LS-D (DOWNSTREAM)
- (BASE WELD NO.)-LS-U (UPSTREAM)



REFERENCE DRAWINGS:

- 47N1568
- 47W335-4 & 66
- 47W452 SERIES
- DRAVO E-2458-IC-31, 32, & 33
- ISI-0276-C SH1
- NOTE: THIS DRAWING SUPERCEDES CHN-2070-C ALL SHEETS.

MATERIAL SPECIFICATION:

- STAINLESS PIPE A-308, GR 304, CL. 1
- STAINLESS FITTINGS A-400W304
- 24" X 1.219" NOM. WALL THK. SCH. 80 SS
- 20" X 1.031" NOM. WALL THK. SCH. 80 SS
- 20" X 1.031" NOM. WALL THK. SCH. 80 CS
- 6" X 0.432" NOM. WALL THK. SCH. 80S SS

ASME CC-1 (EQUIVALENT)

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 1101 MARSHALL STREET  
 CHATTANOOGA, TENNESSEE 37402  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

6	REV	105	1/18	gmc	10-11-73
5	REV	ADD	ADD MATCH LINES TO 5" LINES	CLB	7/2/70
4	REV	ADD	REMOVE BOLT CONNECTIONS	CLB	6-3-69
3	REV	ADD	CHANGE DSRHR-19 TO DSRHR-17, CORRECT MFG. DRAWING NO.	CLB	3-13-69
2	REV	ADD	ADD LONGSW IDENTIFIED NOTE CORRECT WELD ID.	CLB	3-20-69
1	REV	ADD	REDRAW TO CADAM, CORRECT MATERIAL SPEC. ADD LONG SEAMS	CLB	3-29-68
1	REV	ADD	ADD LONG SEAMS & CORRECT WELD. CHANGE MATCH LINE	CLB	3-29-68
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE

TENNESSEE VALLEY AUTHORITY

**BROWNS FERRY NUCLEAR PLANT**  
**UNIT 2**  
**RESIDUAL HEAT REMOVAL SYSTEM**  
**WELD LOCATIONS**

DRAWN: RPB	DATE: 6-20-68	SCALE: NTS	CADW/STP
REVISED: ST	APPROVED:	SHEET 01 OF 02	





1000 1000

1000 1000

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 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 802-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : ISI-0221-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DSRHR-2-11	ELBOW -PIPE	C MU0313	R00000399	C00000229	BF-57	UT-45	19941018	PASS	NO		GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT
			R00000399	C00000288	BF-57	UT-60L	19941021	PASS	NO			
TRHR-2-191	VALVE -ELBOW	C MU0313	R00000284	C00000187	BF-99	UT-45	19941017	PASS	NO		SPOT IND.	NON-RELEVANT
			R00000284	C00000186	BF-99	UT-45L	19941017	PASS	NO			
			R00000284	C00000188	BF-99	UT-60L	19941017	PASS	NO			

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 NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 802-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : HSC-0018-C SHEET : 08  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DRHR-2-02	PIPE -VALVE	C MU0313	R00000120	C00000039	BF-102	UT-45	19940929	PASS	NO			
			R00000120	C00000031	BF-102	UT-45L	19940927	PASS	NO			
			R00000120	C00000038	BF-102	UT-60L	19940928	PASS	NO			

00216

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68300 ..

NOTE:

1. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:

- (BASE WELD NO.)-LS-1D (DOWNSTREAM)
- (BASE WELD NO.)-LS-2D (DOWNSTREAM)
- (BASE WELD NO.)-LS-1U (UPSTREAM)
- (BASE WELD NO.)-LS-2U (UPSTREAM)

THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (i.e. -LS-1 AT 130°, AND -LS-2 AT 310°)

2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:

- (BASE WELD NO.)-LS-D (DOWNSTREAM)
- (BASE WELD NO.)-LS-U (UPSTREAM)

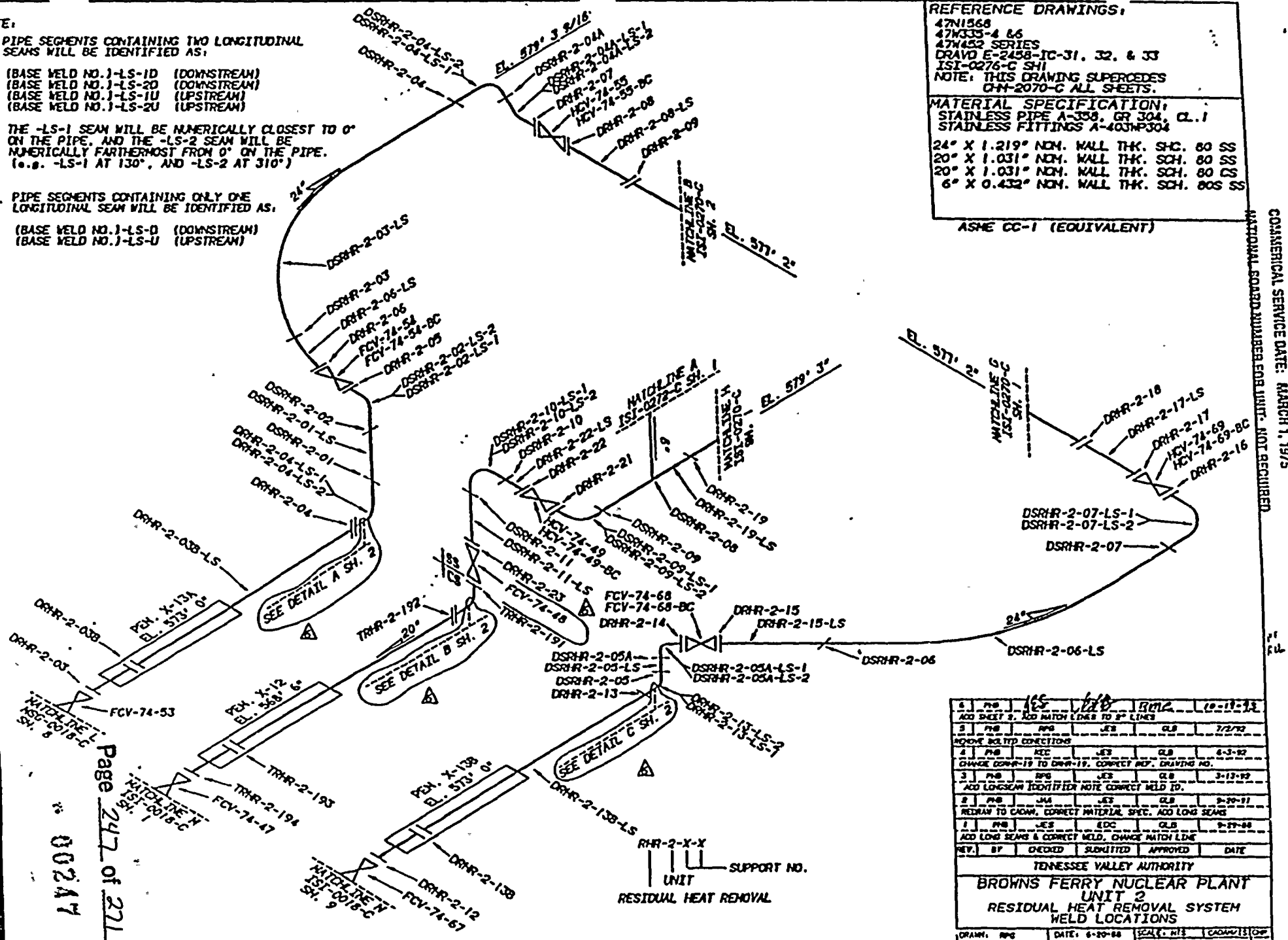
**REFERENCE DRAWINGS:**

- 47N1568
- 47M333-4 & 6
- 47W452 SERIES
- DRAVO E-2458-1C-31, 32, & 33
- ISI-0276-C SH1
- NOTE: THIS DRAWING SUPERCEDES CDM-2070-C ALL SHEETS.

**MATERIAL SPECIFICATION:**

- STAINLESS PIPE A-358, GR 304, CL.1
- STAINLESS FITTINGS A-403NP304
- 24" X 1.219" NOM. WALL THK. SCH. 80 SS
- 20" X 1.031" NOM. WALL THK. SCH. 80 SS
- 20" X 1.031" NOM. WALL THK. SCH. 80 DS
- 6" X 0.432" NOM. WALL THK. SCH. 80S SS

ASME CC-1 (EQUIVALENT)



6	MS	1/18	10-11-73
5	MS	JES	7/2/72
4	MS	JES	6-3-72
3	MS	JES	3-13-72
2	MS	JES	2-20-71
1	MS	JES	2-27-68
REV.	BY	CHECKED	DATE
TENNESSEE VALLEY AUTHORITY			
BROWNS FERRY NUCLEAR PLANT UNIT 2 RESIDUAL HEAT REMOVAL SYSTEM WELD LOCATIONS			
DRAWN:	MS	DATE:	6-20-68
CHECKED:	JES	APPROVED:	
SCALE: NTS		SHEET 01 OF 02	

Page 247 of 271  
 00247

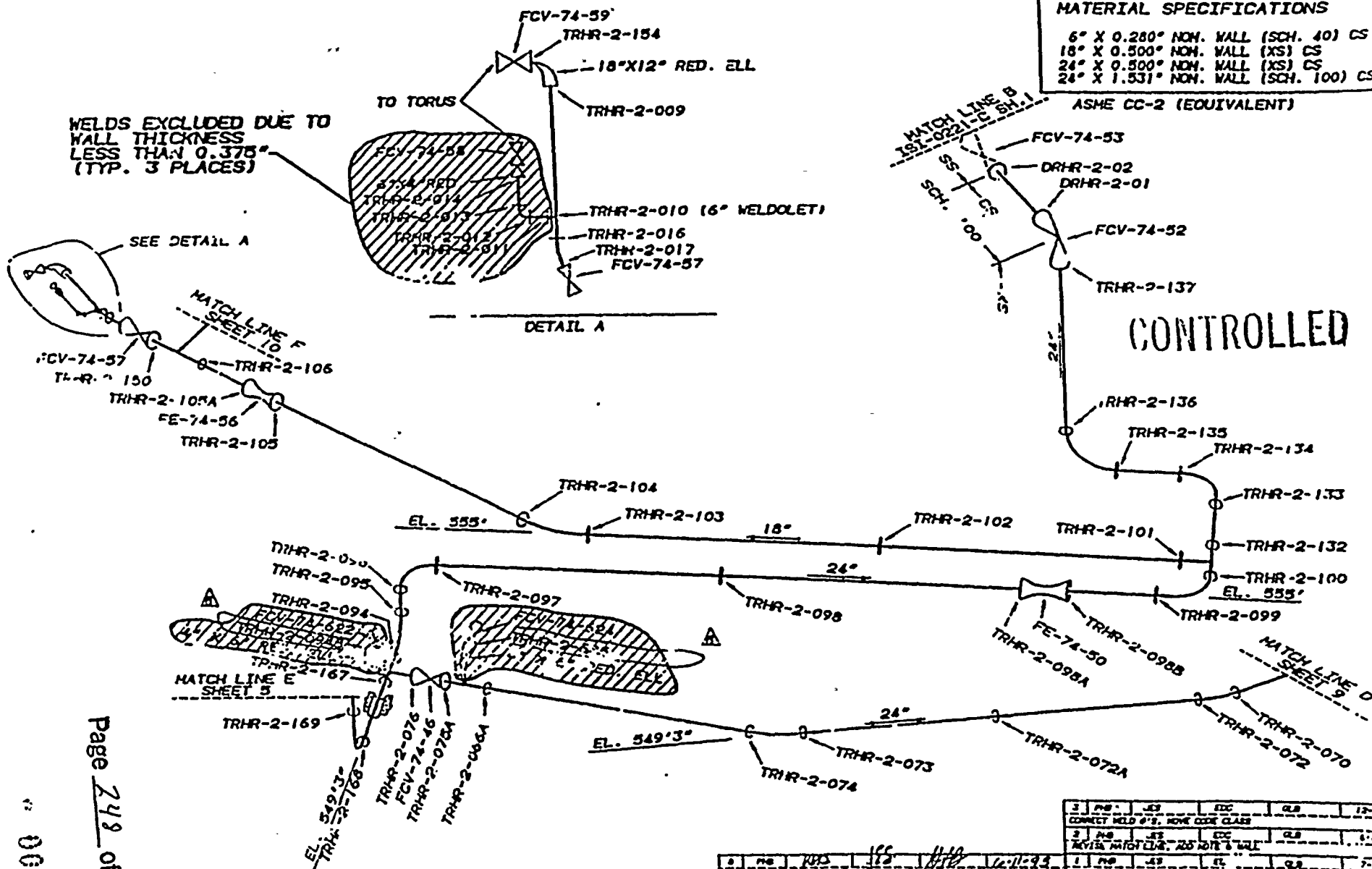
REFERENCE DRAWINGS  
47W452 SERIES  
47W335-6

MATERIAL SPECIFICATIONS

6" X 0.280" NOM. WALL (SCH. 40) CS  
18" X 0.500" NOM. WALL (XS) CS  
24" X 0.500" NOM. WALL (XS) CS  
24" X 1.531" NOM. WALL (SCH. 100) CS

ASME CC-2 (EQUIVALENT)

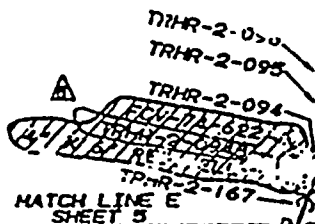
CONTROLLED



WELDS EXCLUDED DUE TO WALL THICKNESS LESS THAN 0.375" (TYP. 3 PLACES)

SEE DETAIL A

DETAIL A



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00248

2	REV	10/25	152	11/10	12-11-93
3	REV	10/25	152	11/10	12-11-93
4	REV	10/25	152	11/10	12-11-93
5	REV	10/25	152	11/10	12-11-93
6	REV	10/25	152	11/10	12-11-93
7	REV	10/25	152	11/10	12-11-93
8	REV	10/25	152	11/10	12-11-93
9	REV	10/25	152	11/10	12-11-93
10	REV	10/25	152	11/10	12-11-93

3	REV	10/25	152	11/10	12-11-93
4	REV	10/25	152	11/10	12-11-93
5	REV	10/25	152	11/10	12-11-93
6	REV	10/25	152	11/10	12-11-93
7	REV	10/25	152	11/10	12-11-93
8	REV	10/25	152	11/10	12-11-93
9	REV	10/25	152	11/10	12-11-93
10	REV	10/25	152	11/10	12-11-93

TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT  
UNIT 2  
RESIDUAL HEAT REMOVAL SYSTEM  
WELD LOCATIONS

UNIT: TWO  
OWNER: TENNESSEE VALLEY AUTHORITY  
NUCLEAR POWER GROUP  
1101 MARKET STREET  
CHATTAHOOGA, TENNESSEE 37402  
PLANT: BROWNS FERRY NUCLEAR PLANT  
P.O. BOX 2000  
DECATUR, ALABAMA 35602  
CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
COMMERCIAL SERVICE DATE: MARCH, 1973

11-20-54

41594

22

SYSTEM : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074  
 ISOMETRIC NUMBER : HSC-0015-C SHEET : 09

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DRHR-2-11	PIPE -VALVE	D HJ0313	R00000119	C00000059	BF-102	UT-45	19940929	PASS	NO			
			R00000119	C00000031	BF-102	UT-45L	19940929	PASS	NO			
			R00000119	C00000038	BF-102	UT-60L	19940928	PASS	NO			

SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : ISI-0270-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
N1A-SE	RCD NOZ ,C -SAFEEND HJ0313		R00000405	C00000221	BF-90	UT-45	19941013	PASS	NO		SUBSURF, LIN EVALUATED,OK	
			R00000405	C00000223	BF-107	UT-45	19941019	PASS	NO			
			R00000405	C00000247	BF-107	UT-45	19941014	PASS	NO			
			R00000405	C00000293	BF-90	UT-45L	19941024	PASS	NO			SUBSURF, LIN EVALUATED,OK
			R00000405	C00000222	BF-90	UT-45L	19941014	PASS	NO			
			R00000405	C00000292	BF-90	UT-60L	19941024	PASS	NO			

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

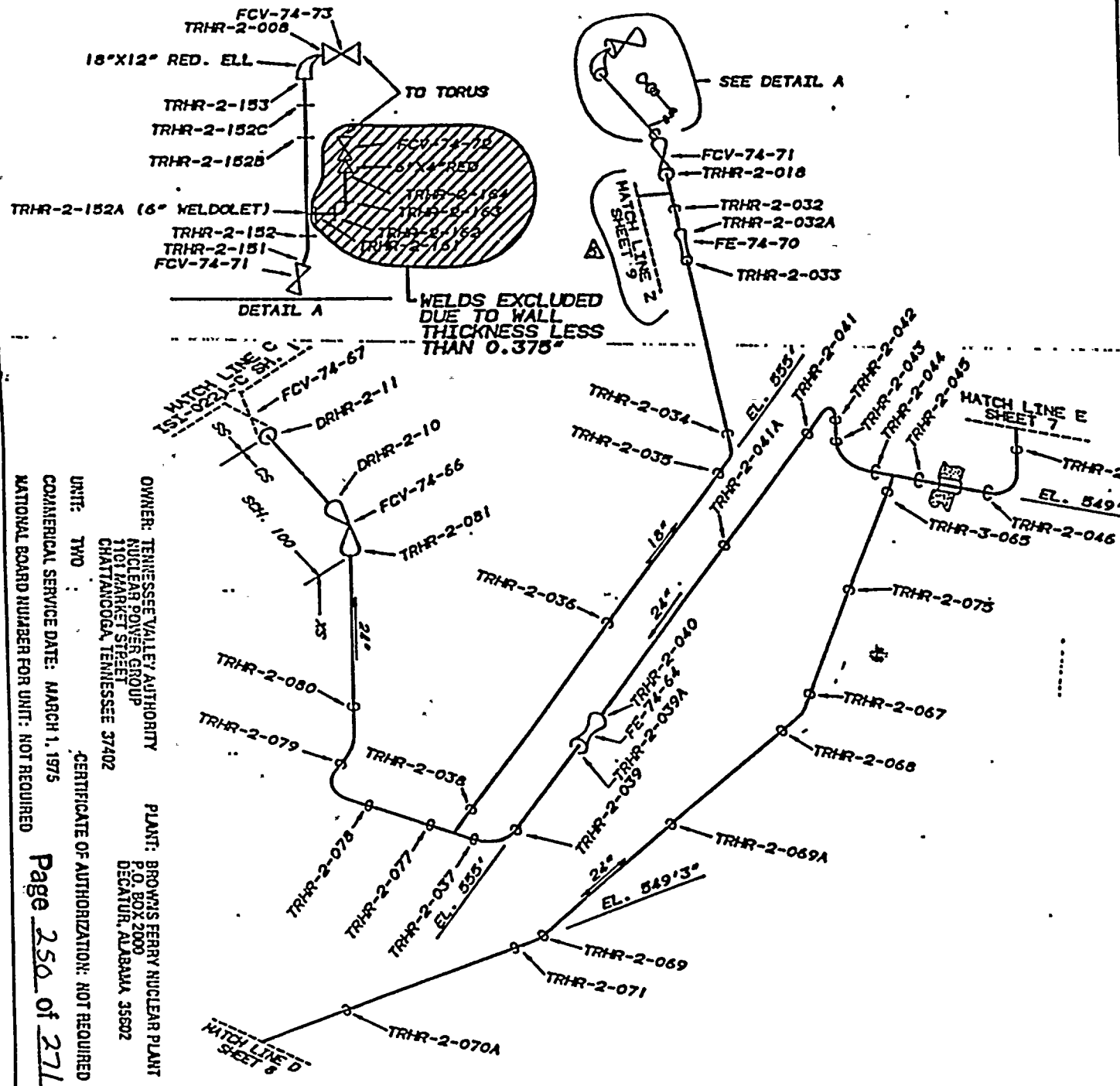
00249

1950

1950



<b>REFERENCE DRAWINGS</b> 47W452 SERIES 47W333-6
<b>MATERIAL SPECIFICATIONS</b> 6" X 0.280" NOM. WALL (SCH. 40) CS 18" X 0.500" NOM. WALL (XS) CS 24" X 0.500" NOM. WALL (XS) CS 24" X 1.531" NOM. WALL (SCH. 100) CS ASME CC-2 (EQUIVALENT)



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

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

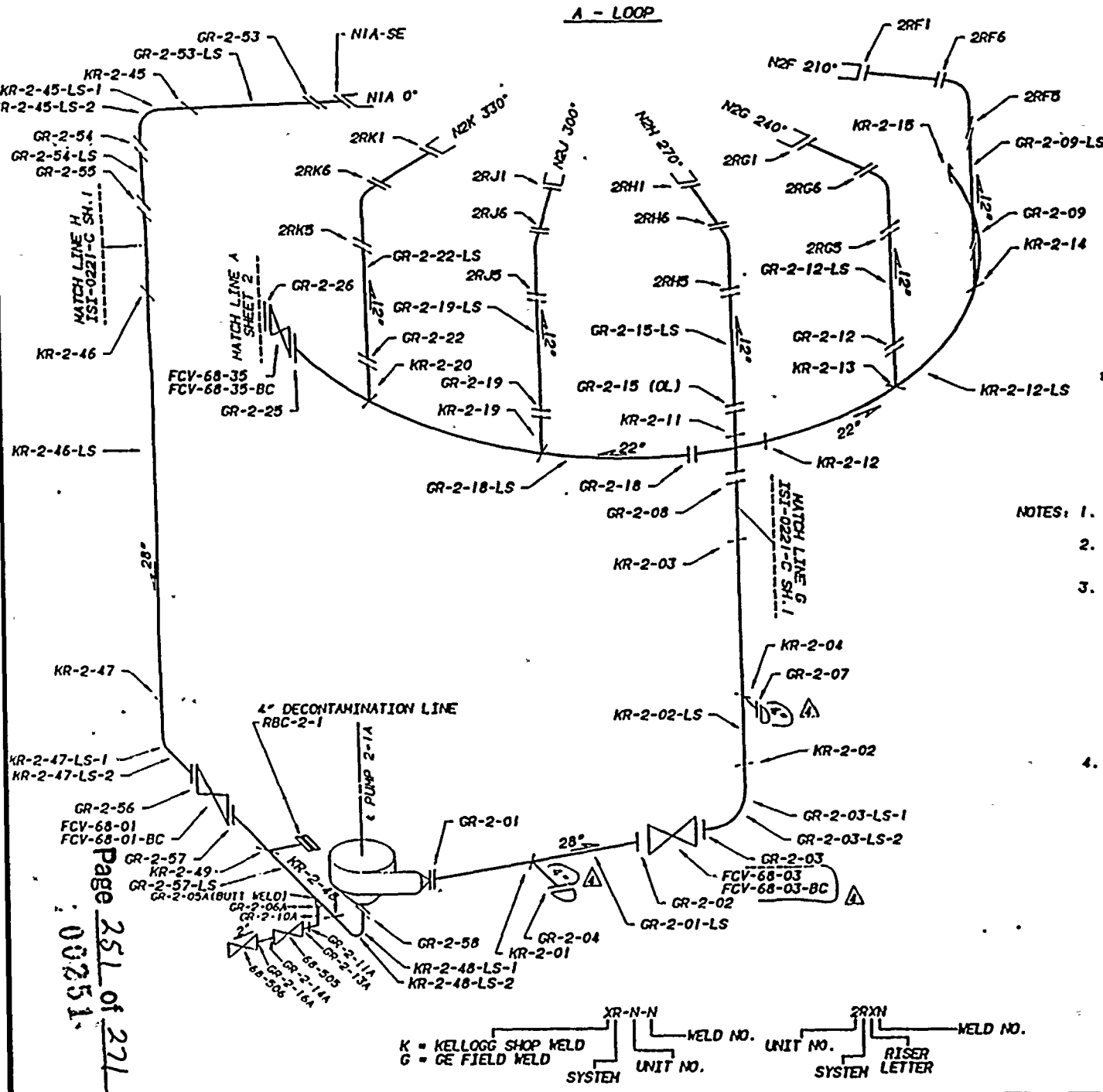
CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

Page 250 of 271

5	REVISE MATCH LINE 2 FROM SH. 13 TO SH. 5	ELB	ELB	6-3-73
4	ADD WELD TYPE FCV-74-71, TRHR-2-032, TRHR-2-032A, TRHR-2-033, TRHR-2-034, TRHR-2-035, TRHR-2-036, TRHR-2-038, TRHR-2-039, TRHR-2-040, TRHR-2-041, TRHR-2-042, TRHR-2-043, TRHR-2-044, TRHR-2-045, TRHR-2-046, TRHR-2-047, TRHR-3-065	ELB	ELB	1-23-73
3	DEL. CANCEL., REV. MATERIAL SPEC.	ELB	ELB	4-24-71
2	REVISE MATCH LINE, ADD CONT. SHARP NOTE	ELB	ELB	10-9-68
1	ISSUED	ELB	ELB	7-16-67
REVISION REVIEWED FOR PRINT				
REV. BY	CHECKED	SUBMITTED	APPROVED	DATE
INCHARGE, TRN 8080	SOFTWARE, CACAM	USER, JETOP		
TENNESSEE VALLEY AUTHORITY				
BROWNS FERRY NUCLEAR PLANT UNIT 2 RESIDUAL HEAT REMOVAL SYSTEM WELD LOCATIONS				
DRAWN, KEY	DATE: 6-18-71	SCALE: NTS	TOTAL SHEETS: 12	SHEET 09 OF 12
CHECKED: EDC	APPROVED: ELB			
SUBMITTED:				MSG-0018-C-05

00250



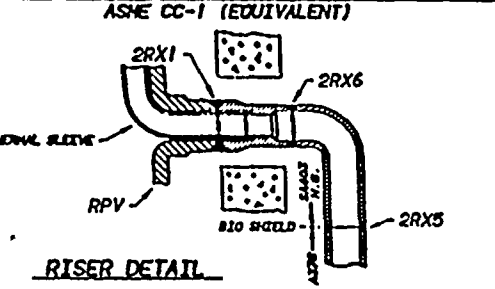


**REFERENCE DRAWING**  
 47M2408-8.9 (S.E. A.)  
 GE 769E963 (S.E. REPL.)  
 TVA 47K1844-2  
 GE 153F734  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHN-2068-C ALL SHEETS

**MATERIAL SPECIFICATIONS:**  
 A358, TP 304  
 4" X 0.337" NOM WALL THK. (SS)  
 12" X 0.569" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE

2" SCH. 80 A-376, TP304  
 2" FITTINGS A-182, F304

SAFE END REPLACEMENT  
 12" X 0.688 NOM. WALL THK. (SS)  
 SA 403 MP 316 N.G.



- NOTES:
1. WELDS 2RX1 ARE THE NOZZLE TO SAFE-END WELDS
  2. ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.
  3. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-ID (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)
- THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)
4. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

04	REV	6-1-92	DEL. OF BC NOTE FROM VALVE IDENTIFIER AND 2" NOTES	EDC	EDC	02/8
03	REV	3-13-92	ADD LONGSEAM IDENTIFIER NOTES	RPC	JES	02/8
02	REV	9-20-91	DEL CADWORK, ADD 2" LINE, WFL. SPEC	JAA	JES	02/8
01	REV	3-28-89	REDRAWN INTO TWO SHEETS	JES	EDC	02/8
REV	BY	DATE	DESCRIPTION	CHK'D	APP	
HARDWARE: IBM 5045		SOFTWARE: CADAM		USER: ISTOMP		
TENNESSEE VALLEY AUTHORITY						
BROWN FERRY NUCLEAR PLANT UNIT 2 RECIRCULATION SYSTEM WELD LOCATIONS						
DRAWN: PIP	DESIGNED: JES	APPROVED: GLB	SCALE: NTS	SHEET 1 OF 2 SHEETS		
DATE: 9-10-91	DATE: 6-11-92	DATE: 12-19-91	DATE: 12-19-91	DRAWING NO. IST-0270-C-04		

K = KELLOGG SHOP WELD  
 G = GE FIELD WELD

WELD NO. UNIT NO. SYSTEM

2RXN WELD NO. RISER LETTER SYSTEM

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402  
 DECISION NUMBER: 35002



24300

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M NUTECH TENNESSEE VALLEY AUTHORITY PRISM
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
M ISI DATA BASE
M POST OUTAGE EXAMINATION RESULTS REPORT
M EXAM REQUIREMENT : B02-02 CYCLE : 07
M INTERVAL : 02 PERIOD : 1
M PAGE 25
M REVISION 0002
M DATE 01/17/95
*****
M SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068
M ISOMETRIC NUMBER : ISI-0270-C SHEET : 02
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FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
N1B-SE	RCO NOZ -SAFEEND NU0313	C	R00000401	C00000221	BF-90	UT-45	19941013	PASS	NO			
			R00000401	C00000247	BF-107	UT-45	19941014	PASS	NO			
			R00000401	C00000290	BF-90	UT-45L	19941022	PASS	NO			
			R00000401	C00000222	BF-90	UT-45L	19941014	PASS	NO			
			R00000401	C00000223	BF-107	UT-45L	19941019	PASS	NO			
2RC1	PIPE -SAFEEND NU0313	A	R00000331	C00000242	BF-72	UT-45	19941019	PASS	NO			
			R00000331	C00000245	BF-70	UT-45	19941019	PASS	NO			
			R00000331	C00000243	BF-72	UT-45L	19941019	PASS	NO			
			R00000331	C00000244	BF-70	UT-45L	19941019	PASS	NO			

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*****
M NUTECH TENNESSEE VALLEY AUTHORITY PRISM
M BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
M ISI DATA BASE
M POST OUTAGE EXAMINATION RESULTS REPORT
M EXAM REQUIREMENT : B02-02 CYCLE : 07
M INTERVAL : 02 PERIOD : 1
M PAGE 26
M REVISION 0002
M DATE 01/17/95
*****
M SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068
M ISOMETRIC NUMBER : ISI-0271-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION	
TCS-2-401	SAFEEND -CS NOZ	C NU0313	R00000132	C00000051	BF-106	UT-45	19941002	PASS	NO				
			R00000132	C00000053	BF-65	UT-45	19941002	PASS	NO		GEOMETRIC	NON-RELEVANT	
			R00000132	C00000049	BF-65	UT-45L	19941003	PASS	NO				
			R00000132	C00000050	BF-106	UT-45L	19941003	PASS	NO			GEOMETRIC	NON-RELEVANT
			R00000132	C00000052	BF-106	UT-60L	19941002	PASS	NO				
TCS-2-417	SAFEEND -CS NOZ	C NU0313	R00000313	C00000210	BF-65	UT-45	19941018	PASS	NO		GEOMETRIC	NON-RELEVANT	
			R00000313	C00000214	BF-106	UT-45	19941016	PASS	NO				
			R00000313	C00000211	BF-65	UT-45	19941018	PASS	NO				
			R00000313	C00000213	BF-106	UT-45L	19941016	PASS	NO			GEOMETRIC	NON-RELEVANT
			R00000313	C00000212	BF-65	UT-45L	19941016	PASS	NO			GEOMETRIC	NON-RELEVANT
R00000313	C00000209	BF-65	UT-60L	19941018	PASS	NO			GEOMETRIC	NON-RELEVANT			

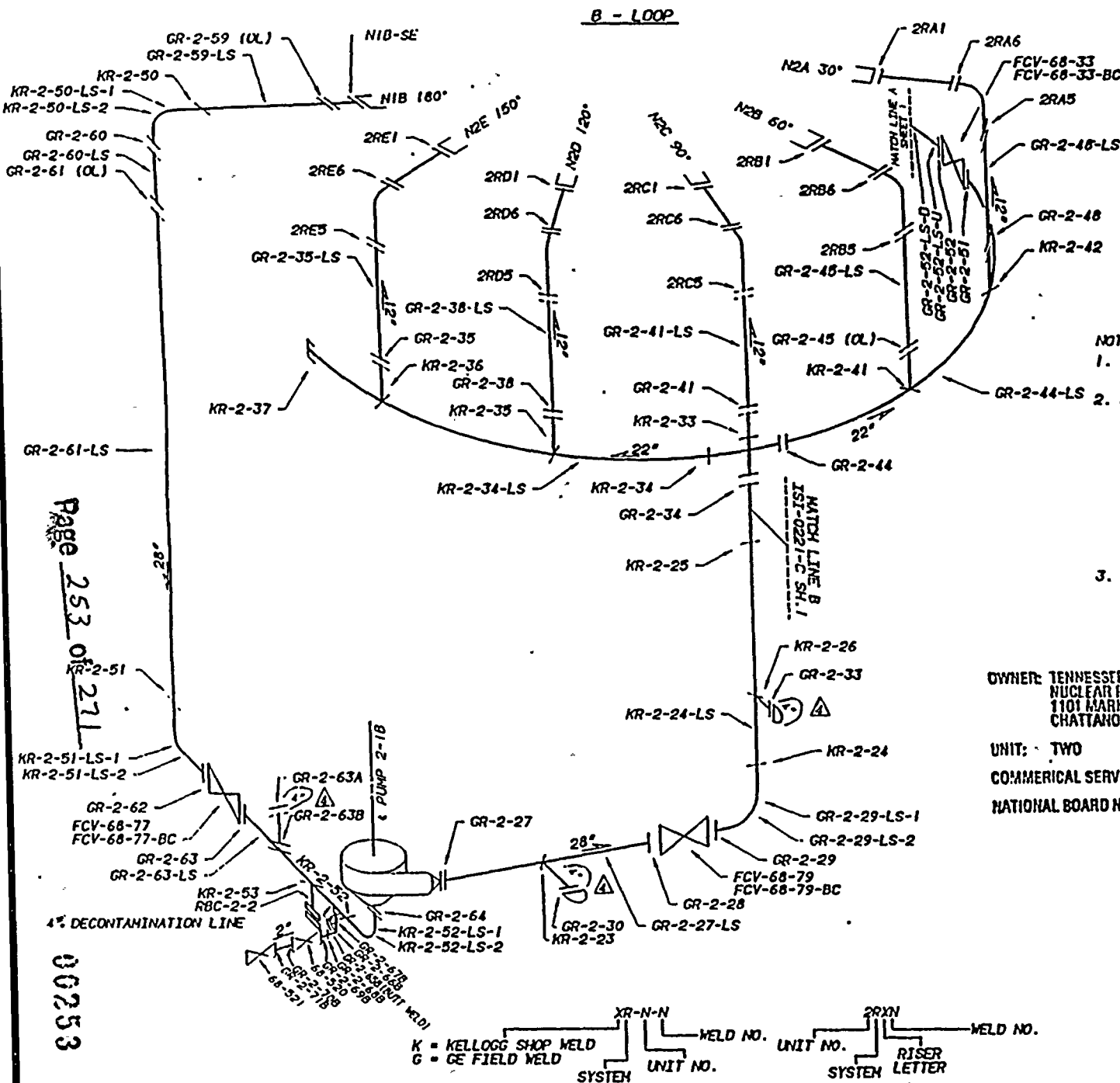
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100-1-100

100-1-100



**REFERENCE DRAW.**  
 47W2408-8,9 (S.E. :ENT)  
 GE 769E963 (S.E. REPLACEMENT)  
 TVA 47K1544-2  
 GE 153F754  
 KELLOGG BF 2-180  
 NOTE: THIS DRAWING SUPERSEDES  
 CHM-2068-C ALL SHEETS

**MATERIAL SPECIFICATIONS:**  
 A358, TP 304  
 4" X 0.337" NOM. WALL THK. (SS)  
 12" X 0.569" NOM. WALL THK. (SS)  
 22" X 1.030" NOM. WALL THK. (SS)  
 28" X 1.138" NOM. WALL THK. (SS) SUCTION  
 28" X 1.322" NOM. WALL THK. (SS) DISCHARGE

2" SCH. 80, A376, TP304  
 2" FITTINGS A162.F304

SAFE END REPLACEMENT  
 12" X 0.688 NOM. WALL THK. (SS)  
 SA 403 MP 316 N.G.

ASME CC-1 (EQUIVALENT)

- NOTES:**
- ALL 2" WELDS ARE SOCKET WELDED EXCEPT WHERE NOTED.
  - PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-1D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)  
 THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (e.g. -LS-1 AT 130°, AND -LS-2 AT 310°)
  - PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

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

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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

REV	BY	DATE	DESCRIPTION	CHK'D	APP'D
04	PL	6-9-79	ADD 4" LINE SIZES	PL	PL
03	PL	3-13-79	ADD LONGSEAM IDENTIFIED NOTES MODIFY LONGSEAM WELD ID'S	RPG	JES
02	PL	9-20-81	DEL CADOLE, ADD 3" LINE, MATL. SPEC.	JAA	JES
01	PL	11-9-89	CORRECT VALVE NO. FCV-68-79	JES	EDC
REV	BY	DATE	DESCRIPTION	CHK'D	APP'D
			MARKWARE: IBM 3045	SOFTWARE: CADAM	USER: TSDMP

TENNESSEE VALLEY AUTHORITY

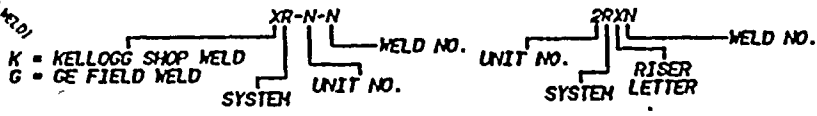
**BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 RECIRCULATION SYSTEM  
 WELD LOCATIONS**

DRAW. NO.	REVISED DATE	APPROVED DATE	SCALE
3-28-79	3-28-79	3-28-79	SCALE 2 OF 2 SHEET(S)
DESIGNED BY	EDC	CHK'D BY	CLB
DATE	3-3-89	DATE	3-17-89

EST-0270-C104

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00253

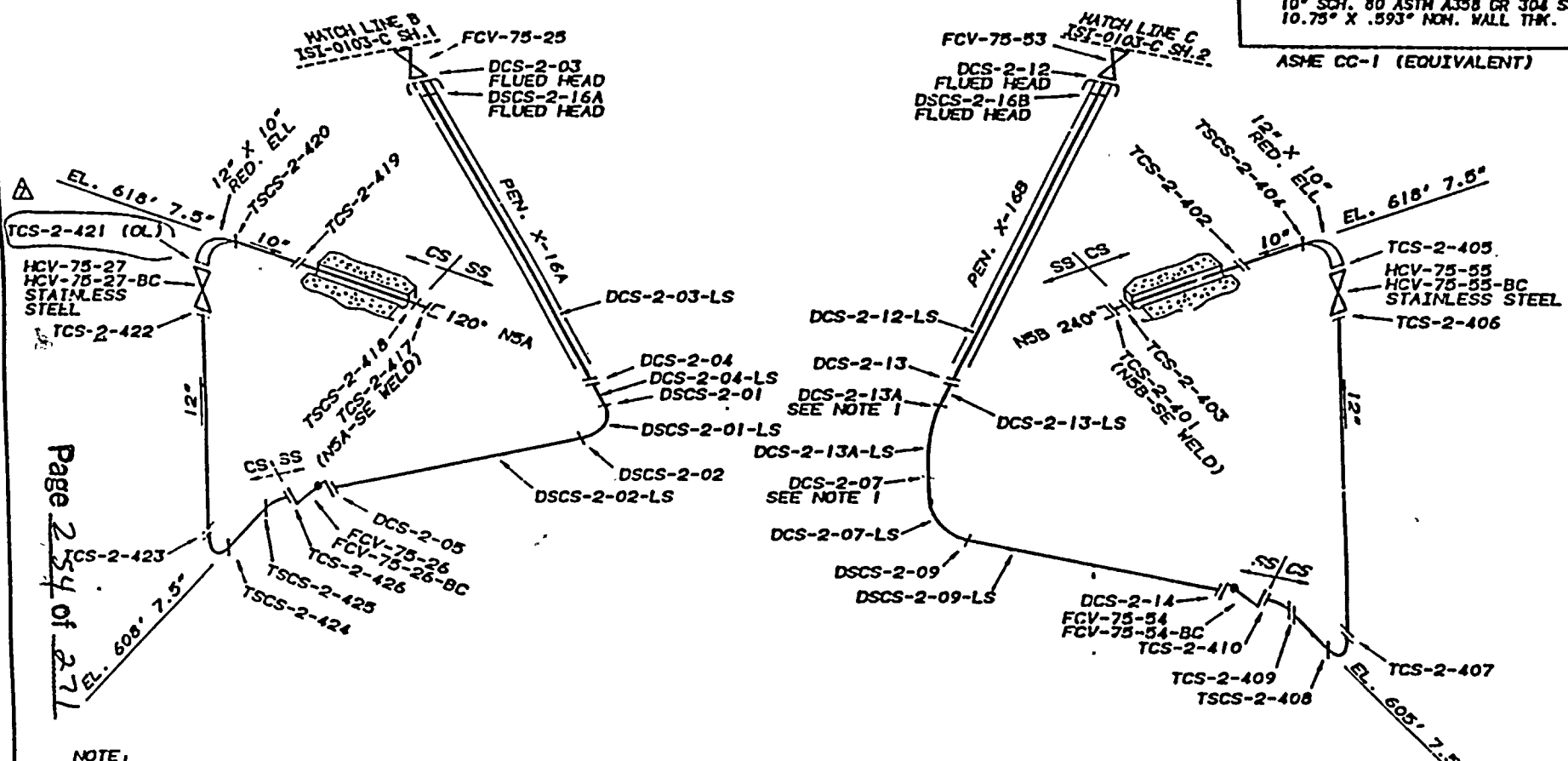


1925



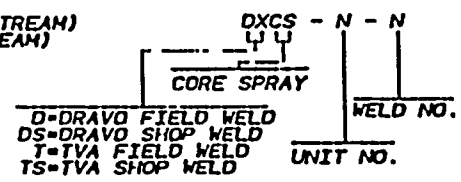
REFERENCE DRAWINGS  
 DRAVO E-2450-IC-34  
 DRAVO E-2450-IC-35  
 NOTE: THIS DRAWING SUPERSEDES CHN-2071-C  
 ALL SHEETS

MATERIAL SPECIFICATIONS  
 12" SCH. 80 SA 333 GR6 CS  
 12.75" X .687" NOM. WALL THK.  
 12" SCH. 80 ASTM A358 GR 304 SS  
 12.75" X .687" NOM. WALL THK.  
 10" SCH. 80 SA 333 GR6 CS  
 10.75" X .593" NOM. WALL THK.  
 10" SCH. 80 ASTM A358 GR 304 SS  
 10.75" X .593" NOM. WALL THK.  
 ASME CC-1 (EQUIVALENT)



- NOTE:
1. WELDS DCS-2-07 AND DCS-2-13A ARE DRAVO SHOP WELDS.
  2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:

(BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)



7	PHB	JES	ETC	CLB	4-23-90
ADD (OL) TO TCS-2-281 PER FCOT-93110					
8	PHB	JES	ETC	CLB	1-14-90
ADD NOTE 2					
9	PHB	JES	ETC	CLB	12-15-89
ADD LONGSEAM WELD TCS-2-02-LS. CORRECT MATERIAL SPEC					
REV.	BY	DECD	SUBMITTED	APPROVED	DATE

TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT 2					
CORE SPRAY SYSTEM					
WELD LOCATIONS					
DRAWN:	PHB	DATE:	3-17-89	SCALE:	NONE
DESIGNED:	JES	APPROVED:		SHEET:	01 OF 01
SUBMITTED:	ETC	CLB		NO.	ISI-0271-C 07

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 CHATTANOOGA, TENNESSEE 37102  
 DECATUR, ALABAMA 36602

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00254



00324

10/10/1961

SYSTEM : RUCUS REACTOR WATER CLEANUP SYSTEM - 069  
 ISOMETRIC NUMBER : ISI-0272-C SHEET : 01

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
DRWC-2-01	VALVE -PIPE	C MU0313	R00000157	C00000063	BF-31	UT-45	19941006	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000157	C00000064	BF-31	UT-45L	19941006	PASS	NO			
			R00000157	C00000065	BF-31	UT-60L	19941006	PASS	NO			
DRWC-2-01A	TEE -VALVE	C MU0313	R00000154 R00000154	C00000063 C00000064	BF-31	UT-45 UT-45L	19941006 19941006	PASS PASS	NO NO	ISI2-4 ISI2-4		
DRWC-2-02	ELBOW -VALVE	C MU0313	R00000152 R00000152	C00000061 C00000062	BF-31 BF-31	UT-45 UT-60L	19941005 19941005	PASS PASS	NO NO			
DRWC-2-03	VALVE -PIPE	C MU0313	R00000144 R00000144	C00000055 C00000056	BF-31	UT-45 UT-60L	19941005 19941005	PASS PASS	NO NO		GEOMETRIC	NON-RELEVANT
DSRWC-2-01	PIPE -ELBOW	C MU0313	R00000149	C00000061	BF-31	UT-45	19941005	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000149	C00000062	BF-31	UT-60L	19941005	PASS	NO		GEOMETRIC	NON-RELEVANT
DSRWC-2-01A	PIPE -ELBOW	C MU0313	R00000150 R00000150	C00000061 C00000062	BF-31 BF-31	UT-45 UT-60L	19941005 19941005	PASS PASS	NO NO			
DSRWC-2-02	ELBOW -PIPE	C MU0313	R00000151 R00000151	C00000061 C00000062	BF-31 BF-31	UT-45 UT-60L	19941005 19941005	PASS PASS	NO NO			
DSRWC-2-06	ELBOW -PIPE	C MU0313	R00000155	C00000066	BF-31	UT-45	19941005	PASS	NO			
			R00000155	C00000067	BF-31	UT-45	19941004	PASS	NO			
			R00000155	C00000068	BF-31	UT-60L	19941005	PASS	NO			

SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : CHM-2046-C SHEET : 02

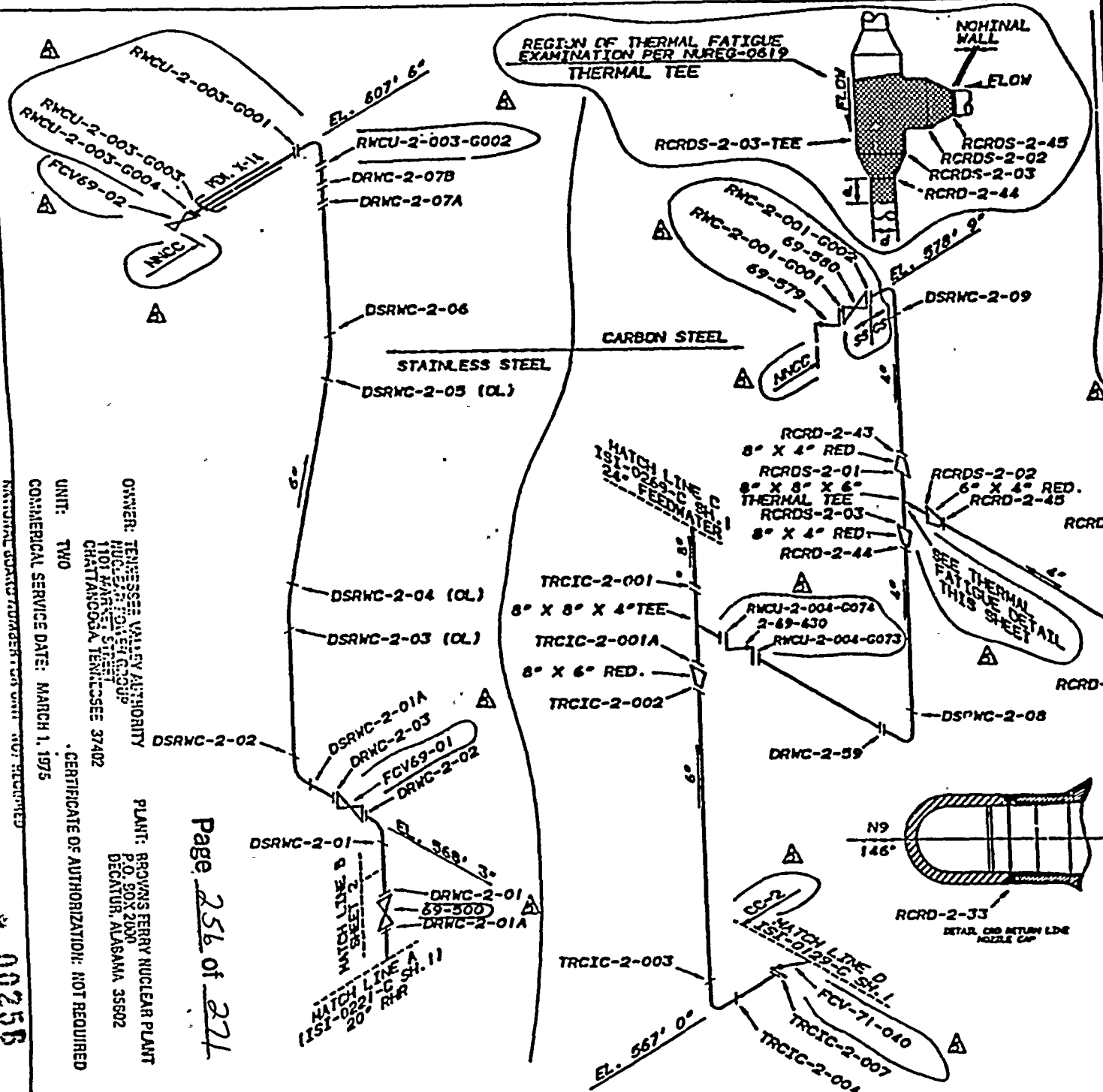
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NSA-SPARGER	SPARGER	B-N-1 IE8013	R00000437			VT-1	19941019	PASS	NO			
NSB-SPARGER	SPARGER	B-N-1 IE8013	R00000437			VT-1	19941019	PASS	NO			

00255



1. 10/10/1955

10/10/55



**REFERENCE DRAWINGS**  
 CRD-2-005  
 RCIC-2-004  
 RVC-2-001  
 270335-12, -17

**NOTE:**  
 THIS DRAWING SUPERSEDES CHN-2075-C  
 AND CHN-2072-C (ALL SHEETS)

**MATERIAL SPECIFICATIONS**  
**STAINLESS STEEL**  
**FITTINGS**  
 6" SA403 WP316NG SCH. 80 SS  
**PIPING**  
 6" SA376 TP316NG SCH. 80 SS

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**CARBON STEEL**  
 4" SCH. 80 A-333, GRI (SEAMLESS) CS  
 6" X 0.562" NOM WALL SCH. 120 CS  
 8" X 0.893" NOM WALL SCH. 100 CS  
**VALVE**  
 2-69-630 SA182 F316

**ASME CC-1 (EQUIVALENT)**

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

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

00255

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01	REV	DATE	BY	CHKD	APP'D	DATE
02	REV	DATE	BY	CHKD	APP'D	DATE
03	REV	DATE	BY	CHKD	APP'D	DATE
04	REV	DATE	BY	CHKD	APP'D	DATE
05	REV	DATE	BY	CHKD	APP'D	DATE
06	REV	DATE	BY	CHKD	APP'D	DATE
07	REV	DATE	BY	CHKD	APP'D	DATE
08	REV	DATE	BY	CHKD	APP'D	DATE
09	REV	DATE	BY	CHKD	APP'D	DATE
10	REV	DATE	BY	CHKD	APP'D	DATE
11	REV	DATE	BY	CHKD	APP'D	DATE
12	REV	DATE	BY	CHKD	APP'D	DATE
13	REV	DATE	BY	CHKD	APP'D	DATE
14	REV	DATE	BY	CHKD	APP'D	DATE
15	REV	DATE	BY	CHKD	APP'D	DATE
16	REV	DATE	BY	CHKD	APP'D	DATE
17	REV	DATE	BY	CHKD	APP'D	DATE
18	REV	DATE	BY	CHKD	APP'D	DATE
19	REV	DATE	BY	CHKD	APP'D	DATE
20	REV	DATE	BY	CHKD	APP'D	DATE

TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT 2  
 REACTOR WATER CLEAN UP, RCIC, AND CRD  
 WELD IDENTIFICATION

DRAWN: PVB	DATE: 8-9-80	SCALE: N/A	ISSUED: 10/18/80
CHECKED: JES	APPROVED: GJB	SHEET 01 OF 03	REV
SUBMITTED: EOC		ISI-0272-C	05

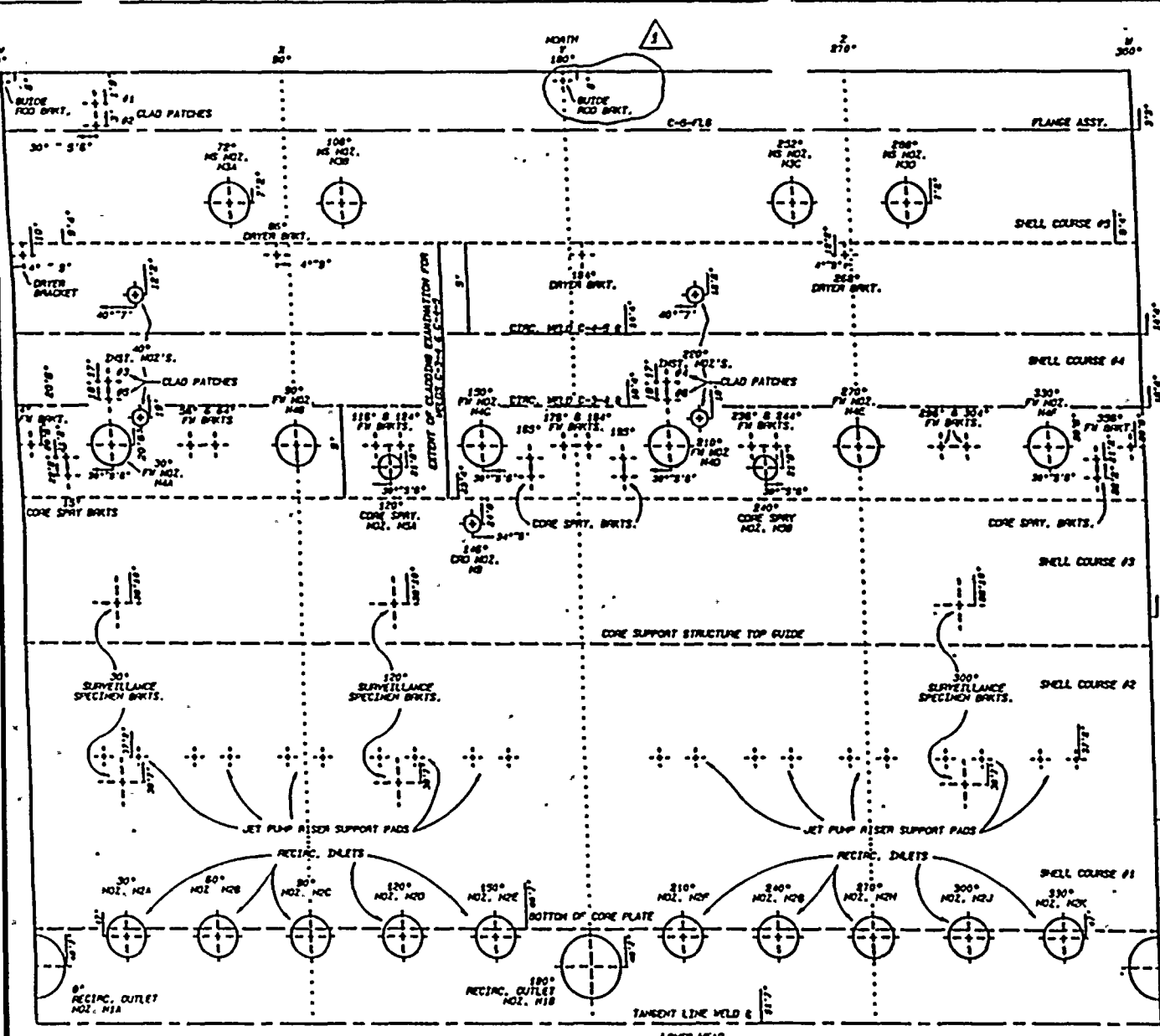
1.88 1.0

00582

REFERENCE DRAW  
500733-001C  
24187-F (BGA)  
122856E

INSULATION

NOTE: FOUR (4) STEAM DRYER HOLDDOWN BRACKETS (NOT SHOWN) ARE LOCATED IN THE VESSEL CLOSURE HEAD 10° UP FROM THE FLANGE. THESE ARE AT AZIMUTH LOCATIONS 41°, 139°, 221°, AND 319°.



CONTROLLED

717  
R21

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

DRWING NO.	500733-001C	DATE	3-24-83	DESCRIPTION	REVISION
DESIGNED BY	JES	CHECKED BY	EDC	DATE	3-25-83
APPROVED BY	GLB	DATE	3-25-83	SCALE	AS SHOWN
TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT UNIT 2 REACTOR VESSEL WELD AND NOZZLE LOCATIONS (INTERIOR WALL)					
SHEET 02 OF 02 SHEETS DRAWING NO. CHN-2046-C 01					

Page 257 of 211

00257



1 1/2

1 1/2



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*****
NUTECH                               TENNESSEE VALLEY AUTHORITY                PRISM
                                      BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
                                      ISI DATA BASE
                                      POST OUTAGE EXAMINATION RESULTS REPORT
                                      EXAM REQUIREMENT : 804-02   CYCLE : 07
                                      INTERVAL : 02       PERIOD : 1
*****
SYSTEM : CSS CORE SPRAY SYSTEM - 075
ISOMETRIC NUMBER : ISI-0271-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REGST.	INDICATION TYPE	INDICATION RESOLUTION
TCS-2-407	ELBOW -PIPE	B-J TS460	R00000227	C00000136	BF-75	UT-45	19941013	PASS	NO	GEOMETRIC	NON-RELEVANT

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*****
NUTECH                               TENNESSEE VALLEY AUTHORITY                PRISM
                                      BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
                                      ISI DATA BASE
                                      POST OUTAGE EXAMINATION RESULTS REPORT
                                      EXAM REQUIREMENT : 804-02   CYCLE : 07
                                      INTERVAL : 02       PERIOD : 1
*****
SYSTEM : FWS FEEDWATER SYSTEM - 003
ISOMETRIC NUMBER : ISI-0269-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI RELIEF CREDIT REGST.	INDICATION TYPE	INDICATION RESOLUTION
CFW-2-15	TEE -PIPE	B-J TS460	R00000420	C00000303	BF-93	UT-45	19941024	PASS	NO		
KFW-2-38	ELBOW -PIPE	B-J TS460	R00000416	C00000302	BF-93	UT-45	19941024	PASS	NO	GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT
KFW-2-39	PIPE -ELBOW	B-J TS460	R00000411	C00000298	BF-93	UT-45	19941024	PASS	NO	GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT



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60322

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

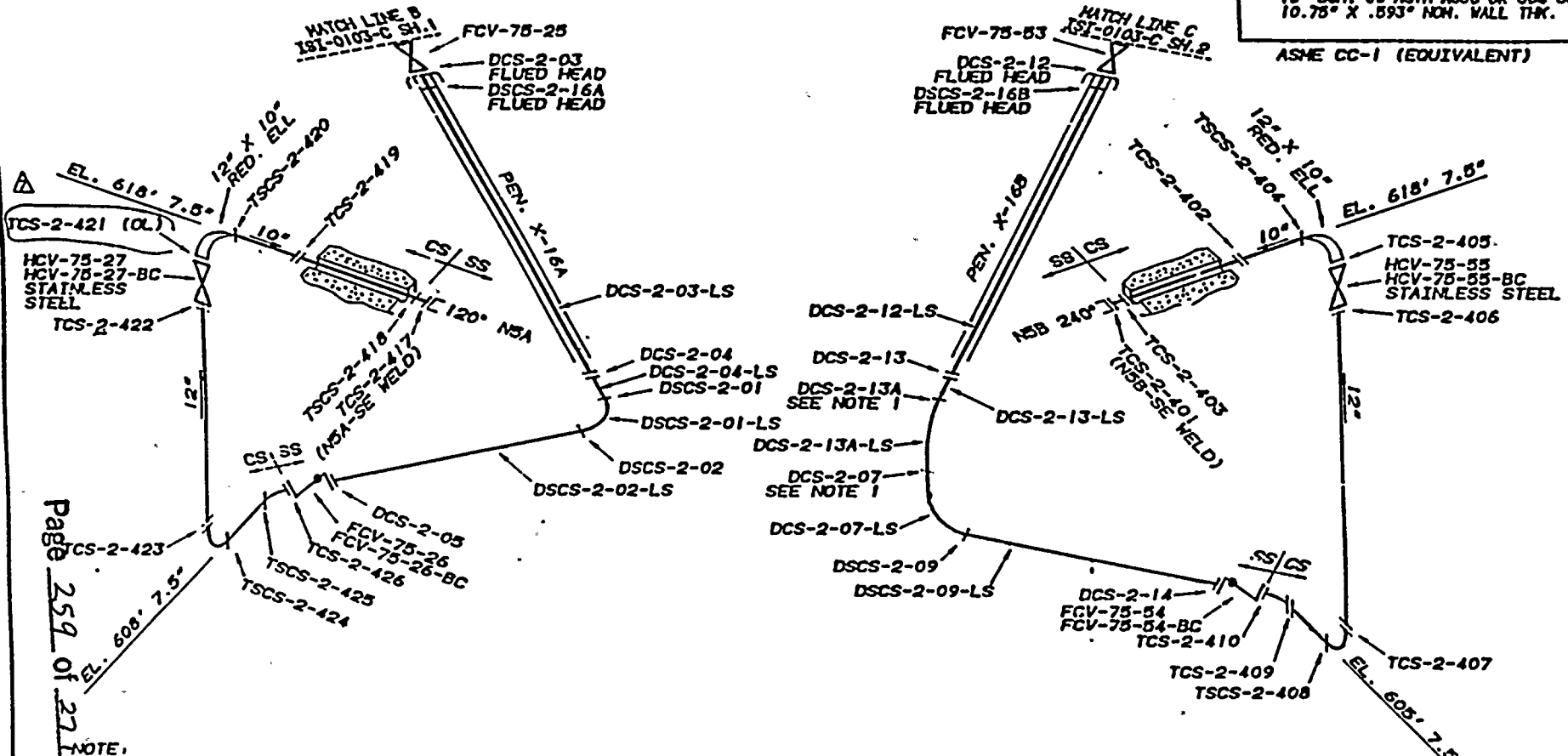
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

REFERENCE DRAWINGS  
 DRAVO E-2450-IC-34  
 DRAVO E-2450-IC-35  
 NOTE: THIS DRAWING SUPERSEDES CHN-2071-C  
 ALL SHEETS

MATERIAL SPECIFICATIONS

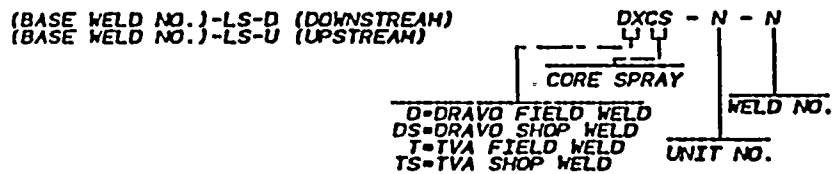
12" SCH. 80 SA 333 GR6 CS  
 12.75" X .687" NOM. WALL THK.  
 12" SCH. 80 ASTM A338 GR 304 SS  
 12.75" X .687" NOM. WALL THK.  
 10" SCH. 80 SA 333 GR6 CS  
 10.75" X .593" NOM. WALL THK.  
 10" SCH. 80 ASTM A338 GR 304 SS  
 10.75" X .593" NOM. WALL THK.

ASME CC-1 (EQUIVALENT)



Page 259 of 277  
 00259

- NOTE:
1. WELDS DCS-2-07 AND DCS-2-13A ARE DRAVO SHOP WELDS.
  2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:



7	PHB	DES	EDC	CLB	4-23-70
ADD CS & SS BOUNDARY, CS SPEC, DEL CADIAN					
8	PHB	JES	EDC	CLB	7-4-70
ADD NOTE 3					
9	PHB	JES	EDC	CLB	12-15-70
ADD LONGSEAM WELD TSCS-2-13A-LS, CORRECT MATERIAL SPECS					
REV.	BY	DESIGN	SUBMITTED	APPROVED	DATE

7	PHB	DES	EDC	CLB	4-23-70
ADD CS & SS BOUNDARY, CS SPEC, DEL CADIAN					
8	PHB	JES	EDC	CLB	7-4-70
ADD NOTE 3					
9	PHB	JES	EDC	CLB	12-15-70
ADD LONGSEAM WELD TSCS-2-13A-LS, CORRECT MATERIAL SPECS					
REV.	BY	DESIGN	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT 2					
CORE SPRAY SYSTEM					
WELD LOCATIONS					
DRAWN	PHB	DATE	5-17-71	SCALE	NIT
CHECKED	JES	APPROVED		CADIAN	1/1
REVISION	ITC	CLB		SHEET	01 OF 01
REV					

47300

1954 10 1 11 11 11

**REFERENCE DRAWINGS**  
 47K1545-1  
 47K335-1  
 GE 7256152  
 ISI-0277-C (SH. 1) SUPPORT MAP  
 THIS DRAWING SUPERCEDES CHN-2057-C  
 ALL SHEETS.

**MATERIAL SPECIFICATIONS**

ASTM A-106 OR B SCH. 100 OR ASTM A-136 OR EQUIV.  
 14" & 12" O.D. PIPE, WALL THICKNESS AS SHOWN  
 14" & 12" O.D. PIPE, WALL THICKNESS AS SHOWN  
 14" & 12" O.D. PIPE, WALL THICKNESS AS SHOWN  
 14" & 12" O.D. PIPE, WALL THICKNESS AS SHOWN  
 14" & 12" O.D. PIPE, WALL THICKNESS AS SHOWN  
 14" & 12" O.D. PIPE, WALL THICKNESS AS SHOWN

ASTM A-106 OR B SCH. 100  
 14" X 1.00" WALL, SPECIAL PEICE TO NOZZLE

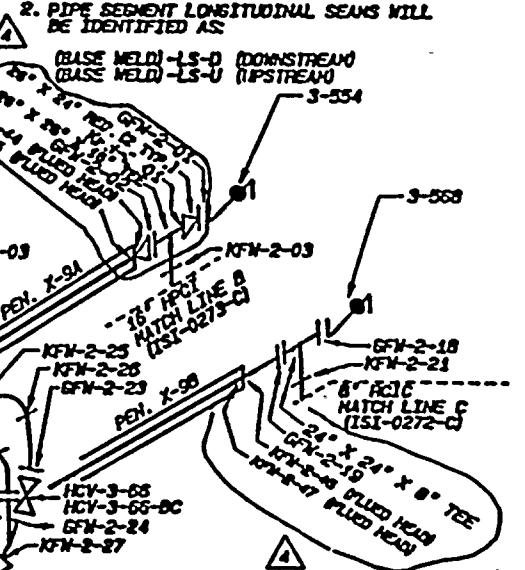
ASTM A-106 OR B SCH. 100  
 24" FLUED HEAD IS

ASTM A-234 OR B SCH. 100 OR 2.125" O.D. WALL  
 TO SUIT PIPE AS FUNCTIONED  
 ALL OTHER TEES, ELBS, AND REDUCERS

ASME CC-1 (EQUIVALENT)

**NOTES**

1. GE FIELD WELDS WERE MADE IN THE FIELD BY TVA
2. PIPE SEGMENT LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD) -LS-D (DOWNSTREAM)  
 (BASE WELD) -LS-U (UPSTREAM)

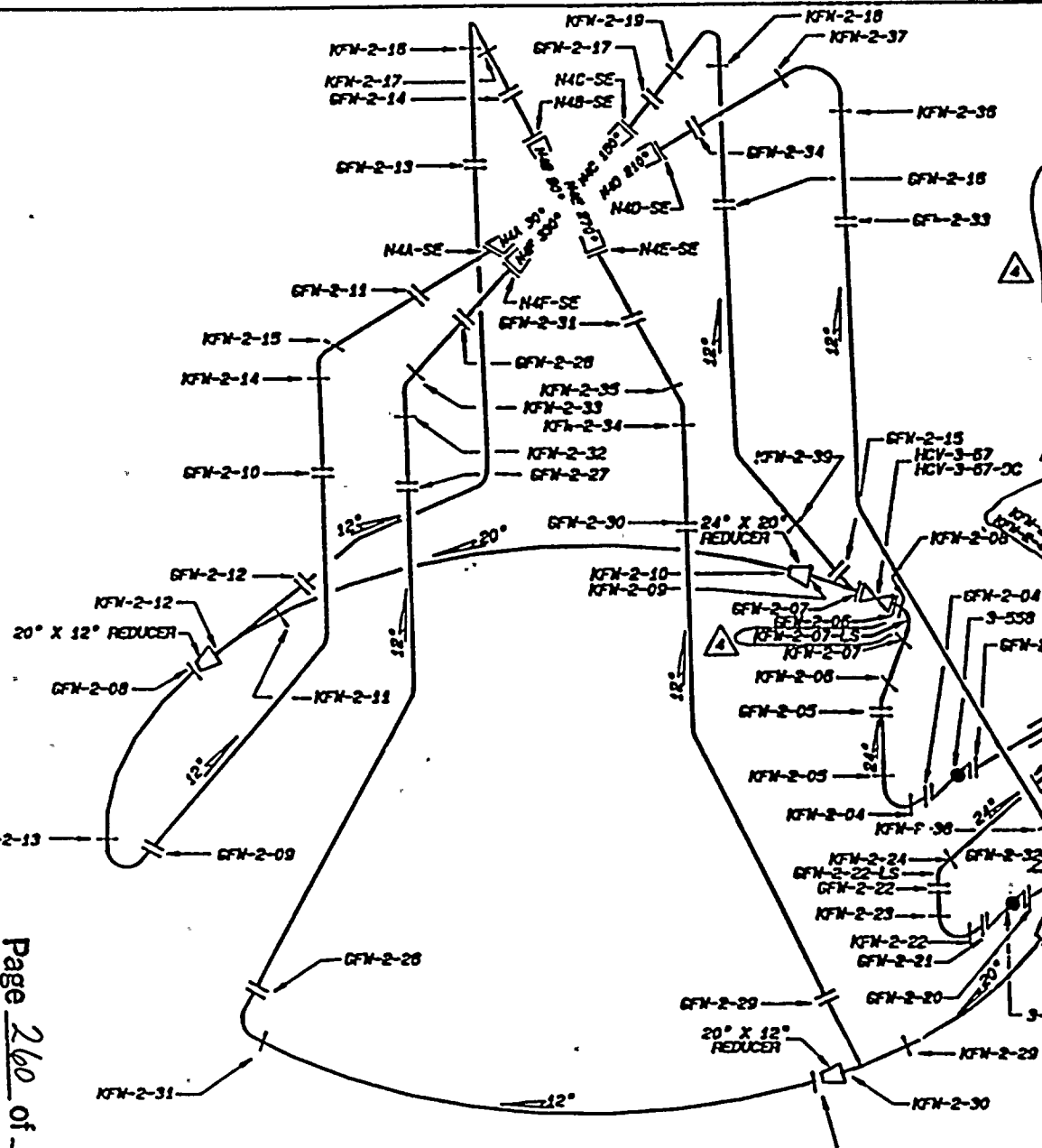


04	REV	6-23-68	250 WELDS BY TIA AND TIA	EDC	GLB	151-0269-2	04
03	REV	6-23-68	REVISED MATERIAL SPECIFICATIONS	EDC	GLB	151-0269-2	04
02	REV	6-23-68	250 WELDS BY TIA AND TIA	EDC	GLB	151-0269-2	04
01	REV	6-23-68	250 WELDS BY TIA AND TIA	EDC	GLB	151-0269-2	04
00	REV	6-23-68	250 WELDS BY TIA AND TIA	EDC	GLB	151-0269-2	04

**TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR PLANT  
 UNIT #2  
 FEEDWATER SYSTEM  
 WELD LOCATIONS**

DATE	BY	CHECKED	APPROVED	SCALE
6-23-68	EDC	GLB		AS SHOWN
6-23-68	EDC	GLB		AS SHOWN
6-23-68	EDC	GLB		AS SHOWN

K-KELLOGG WOPWELD UNIT NO.  
 G-GE FIELD WELD FEEDWATER WELD NO.



OWNER: TENNESSEE VALLEY AUTHORITY  
 NUCLEAR POWER GROUP  
 1701 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402

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

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

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 00260



100-10580

100-10580-11

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N NUTECH
N TENNESSEE VALLEY AUTHORITY
N BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
N ISI DATA BASE
N POST OUTAGE EXAMINATION RESULTS REPORT
N EXAM REQUIREMENT : B04-02 CYCLE : 07
N INTERVAL : 02 PERIOD : 1
N PRISM
N PAGE 3
N REVISION 0002
N DATE 01/17/95
*****
N
N SYSTEM : HPCIS HIGH PRESSURE COOLANT INJECTION SYSTEM - 073
N ISOMETRIC NUMBER : ISI-0273-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
THPCI-2-072	VALVE -PIPE	B-J TS46C	R00000248	C00000166	BF-05	UT-45	19941013	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000248	C00000168	BF-05	UT-60	19941013	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000248	C00000167	BF-05	UT-90L	19941013	PASS	NO		GEOMETRIC	NON-RELEVANT

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*****
N NUTECH
N TENNESSEE VALLEY AUTHORITY
N BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
N ISI DATA BASE
N POST OUTAGE EXAMINATION RESULTS REPORT
N EXAM REQUIREMENT : B04-02 CYCLE : 07
N INTERVAL : 02 PERIOD : 1
N PRISM
N PAGE 4
N REVISION 0002
N DATE 01/17/95
*****
N
N SYSTEM : HSS MAIN STEAM SYSTEM - 001
N ISOMETRIC NUMBER : ISI-0222-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
GHS-2-32	ELBOW -ELBOW	B-J TS46C	R00000425	C00000307	BF-104	UT-45	19941024	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000425	C00000308	BF-104	UT-60	19941024	PASS	NO		GEOMETRIC	NON-RELEVANT

10 10 10

10 10 10

10 10 10



REFERENCE DRAWINGS

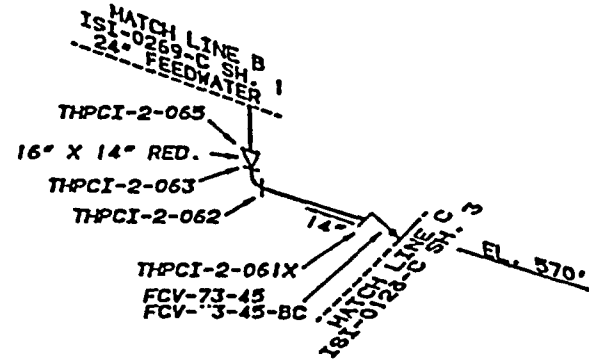
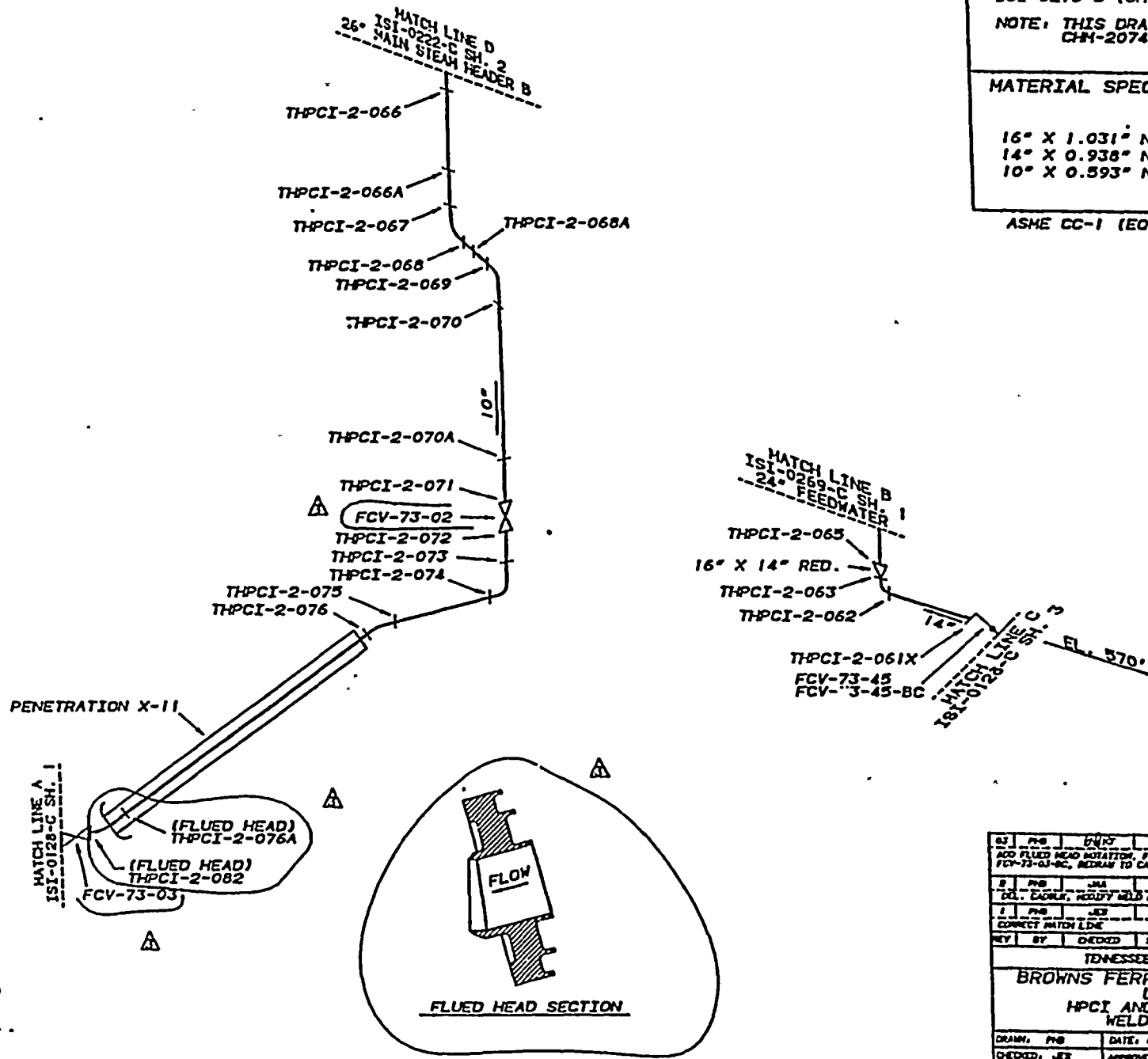
TVA 47W335-11  
 TVA 47W335-12  
 TVA 47K1547  
 ISI-0275-C (SH. 1) SUPPORT MAP

NOTE: THIS DRAWING SUPERSEDES  
 CHM-2074-C ALL SHEETS

MATERIAL SPECIFICATIONS

16" X 1.031" NOM. WALL THK. CS  
 14" X 0.938" NOM. WALL THK. CS  
 10" X 0.593" NOM. WALL THK. CS

ASME CC-1 (EQUIVALENT)



MF  
 A3

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

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

UNIT: TWO

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

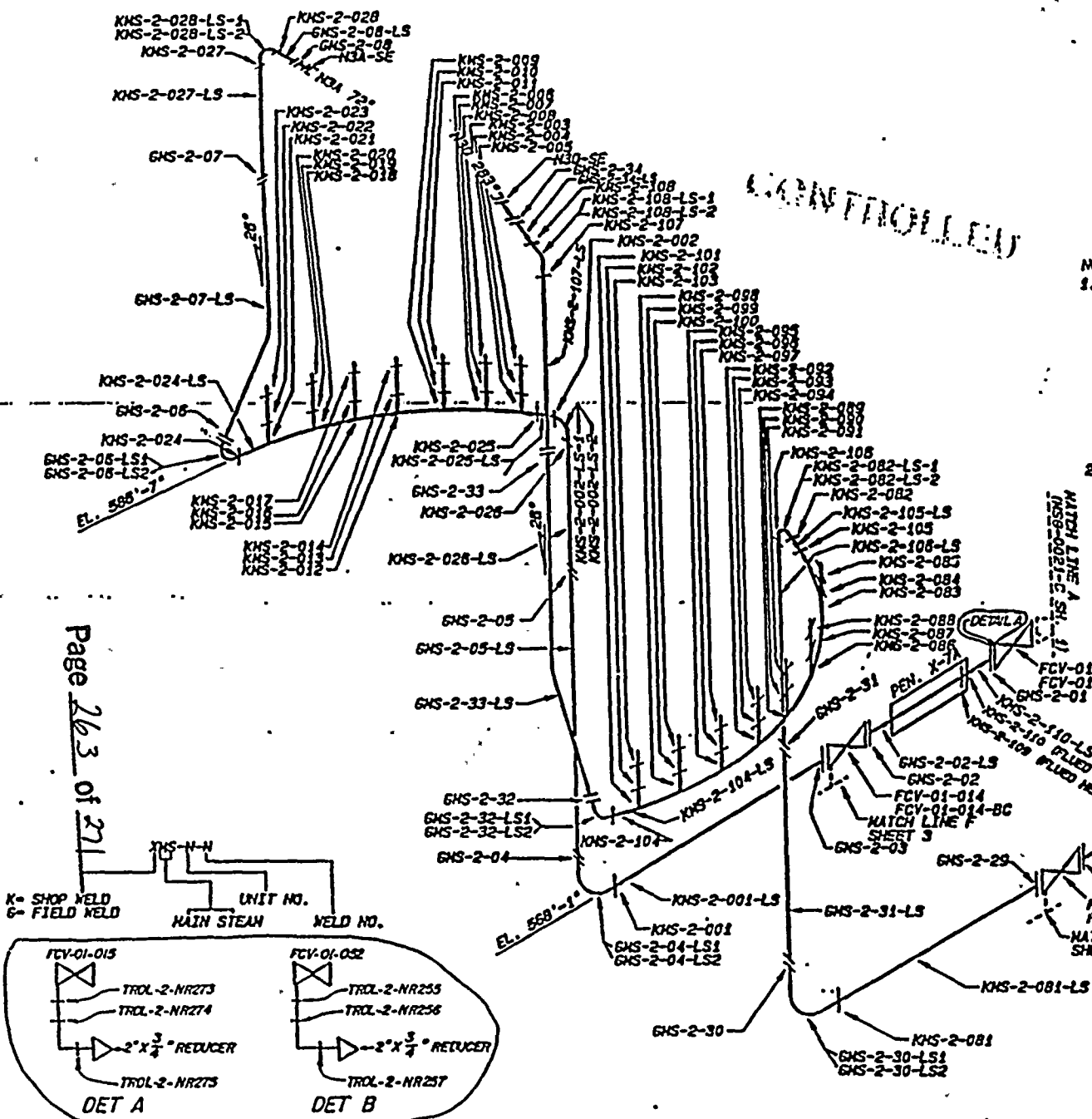
Page 262 of 271

00262

63	FWB	6/4/75	025	AWB	01/2/93
ADD FLUED HEAD NOTATION, FLUED HEAD DETAIL, DELETE FCV-73-03-BC, FCV-73-03-BC, REDRAW TO SHOW					
2	FWB	JMA	JET	CLB	4-20-91
DEL. EAGLE, HOODY WELD NOT.					
1	FWB	JET	EDC	CLB	9-24-88
CORRECT MATCH LINE					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
BROWNS FERRY NUCLEAR PLANT					
UNIT 2					
HPCI AND RHCW SYSTEMS					
WELD LOCATIONS					
DRWN:	FWB	DATE:	6-9-88	SCALE:	MIS (CADW) 11/09
CHECKED:	JET	APPROVED:	CLB	SHEET 01 OF 01 REV	
SUBMITTED:	EDC				ISI-0273-C03

10 10 10 10 10

18500



REFERENCE DRAWINGS:  
 47K1767  
 47N335-1  
 KELLOGG 729E229  
 CHN-2087-C (SH. 1) SUPPORT MAP  
 NOTE: THIS DRAWING SUPERCEDES CHN-2089-C (SH. 1)

PIPE DATA  
 ASME CC-1 (EQUIVALENT)  
 ASTM A-155 KC 70  
 26" X 0.950 NOM. WALL THK. (CS)  
 6" X 0.719 NOM. WALL THK. (SCH. 100 CS)

NOTES:  
 ALL FIELD WELDS WERE MADE BY TYA

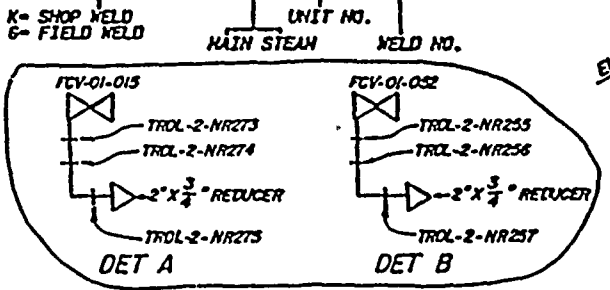
NOTE:  
 1. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-1D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)

THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (E.G. -LS-1 AT 150°, AND -LS-2 AT 310°)

2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 DECATUR, ALABAMA, 35602

Page 263 of 271



Tennessee Valley Authority			
BROWNS FERRY NUCLEAR PLANT			
UNIT 2			
MAIN STEAM SYSTEM WELD LOCATIONS			
DATE: 1-1-75	DESIGNED BY: EDC	CHECKED BY: GLB	ISSUED BY: [Signature]
DATE: 1-1-75	EDC	GLB	2-1ST-022-C

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NUTECH                               TENNESSEE VALLEY AUTHORITY                PRISM
                                      BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
                                      ISI DATA BASE
                                      POST OUTAGE EXAMINATION RESULTS REPORT
                                      EXAM REQUIREMENT : B04-02   CYCLE : 07
                                      INTERVAL : 02   PERIOD : 1
*****
SYSTEM      : MSS MAIN STEAM SYSTEM - 001
ISOMETRIC NUMBER : ISI-0222-C SHEET : 02
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
GHS-2-24	ELBOW -TEE	B-J TS46C	R00000424	C00000307	BF-104	UT-45	19941024	PASS	NO		GEOMETRIC GEOMETRIC	NON-RELEVANT NON-RELEVANT
			R00000424	C00000308	BF-104	UT-60	19941024	PASS	NO			

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*****
NUTECH                               TENNESSEE VALLEY AUTHORITY                PRISM
                                      BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
                                      ISI DATA BASE
                                      POST OUTAGE EXAMINATION RESULTS REPORT
                                      EXAM REQUIREMENT : B04-02   CYCLE : 07
                                      INTERVAL : 02   PERIOD : 1
*****
SYSTEM      : RHRS RESIDUAL HEAT REMOVAL SYSTEM - 074
ISOMETRIC NUMBER : ISI-0221-C SHEET : 01
*****

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FEATURE NUMBER	COMPONENT DESCRPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
DSRHR-2-07	PIPE -ELBOW	B-J TS46C	R00000232	C00000134	BF-57	UT-45	19941004	PASS	NO			

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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

UNIT: TWO  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

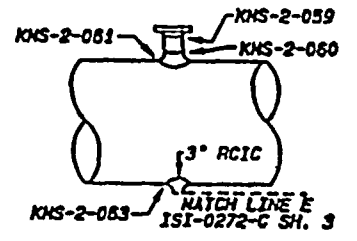
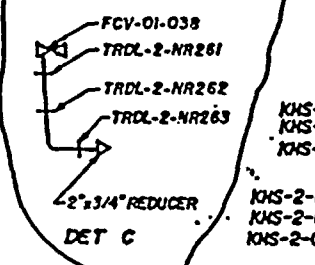
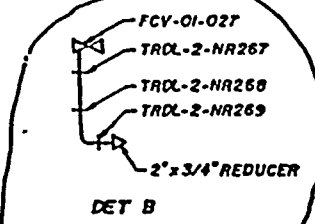
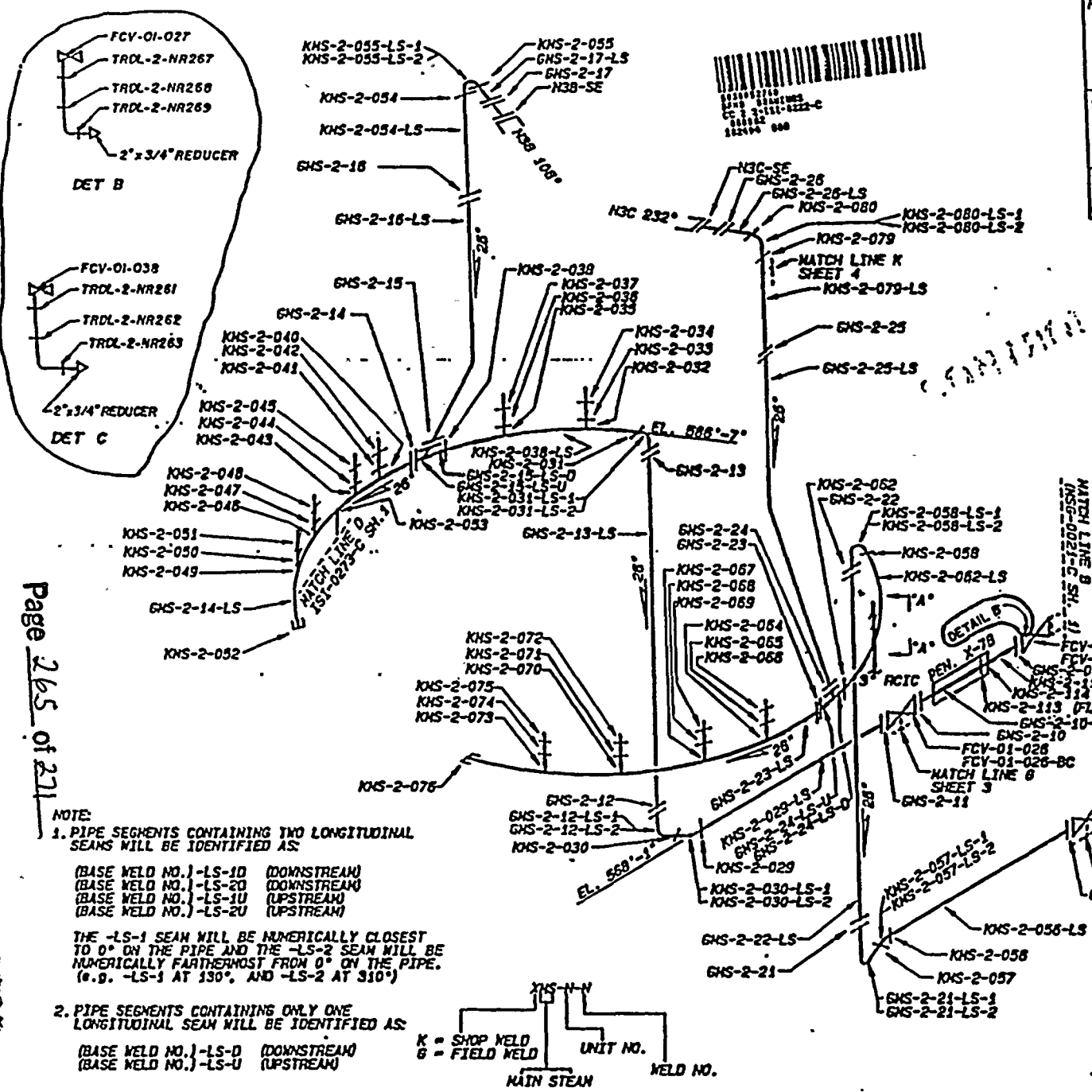
00264

10/15/68

10/15/68

10/15/68

10/15/68



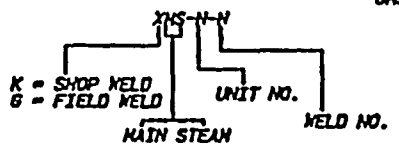
**REFERENCE DRAWINGS:**  
 47K1767  
 47N335-1  
 KELLOG 729E229  
 ISI-0279-C (SH. 2) SUPPORT MAP  
 NOTE: THIS DRAWING SUPERCEDES  
 CHN-2089-C (SH. 2)

**PIPE DATA:**  
 ASME CC-1 (EQUIVALENT)  
 ASTM A-155 KC 70  
 28" X 0.950" NOM. WALL THK. (CS)  
 6" X 0.719" NOM. WALL THK. (SCH. 160 CS)

**NOTES:**  
 ALL FIELD WELDS WERE MADE BY TVA

Page 265 of 271

- NOTE:**
- PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-10 (DOWNSTREAM)  
 (BASE WELD NO.)-LS-20 (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)
  - THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (E.G. -LS-1 AT 150°, AND -LS-2 AT 310°)
  - PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:  
 (BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)



UNIT: TWO  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR JUDG. NOT REQUIRED  
 CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 NUCLEAR POWER GROUP  
 1101 MARKET STREET  
 CHATTANOOGA, TENNESSEE 37402  
 P.O. BOX 6000  
 DECATUR, ALABAMA 35602

ISSUED TO CREATE CGD, SUPERCEDES AND ISI-0222-C-2 (REVISED DETAILS B & C (ISI REVISION))	
<b>TENNESSEE VALLEY AUTHORITY</b>	
<b>BROWNS FERRY NUCLEAR PLANT</b>	
<b>UNIT 2</b>	
<b>MAIN STEAM SYSTEM WELD LOCATIONS</b>	
DATE	BY
01-10-75	EDC
01-10-75	GLB
01-10-75	2-150222-C-2

1000000000

1000000000



NOTE:

1. PIPE SEGMENTS CONTAINING TWO LONGITUDINAL SEAMS WILL BE IDENTIFIED AS:

(BASE WELD NO.)-LS-1D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-2D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-1U (UPSTREAM)  
 (BASE WELD NO.)-LS-2U (UPSTREAM)

THE -LS-1 SEAM WILL BE NUMERICALLY CLOSEST TO 0° ON THE PIPE, AND THE -LS-2 SEAM WILL BE NUMERICALLY FARTHEST FROM 0° ON THE PIPE. (i.e., -LS-1 AT 130°, AND -LS-2 AT 310°)

2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:

(BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)

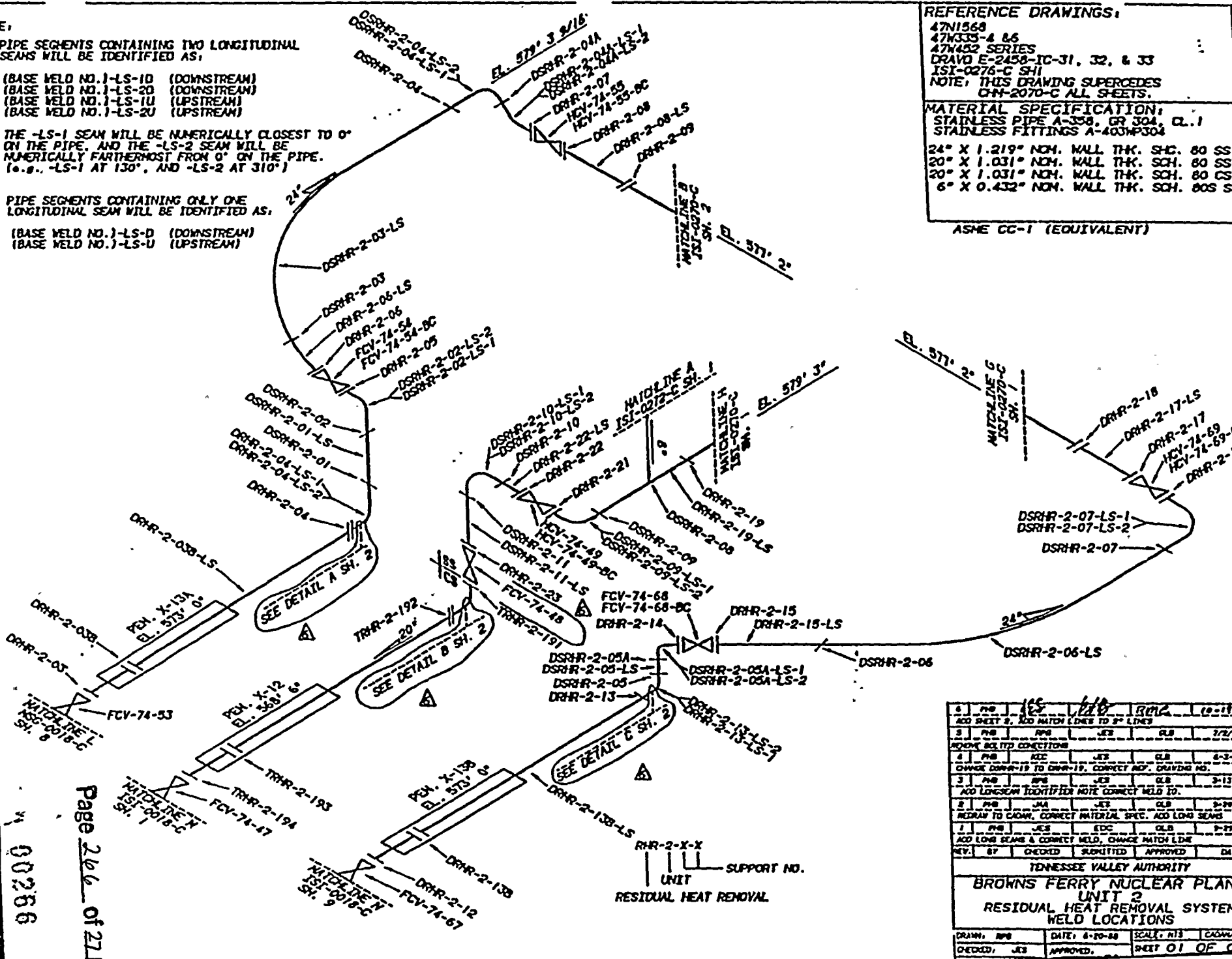
REFERENCE DRAWINGS:

47N1568  
 47N335-4 & 6  
 47N452 SERIES  
 DRAVO E-2458-IC-31, 32, & 33  
 ISI-0276-C SH1  
 NOTE: THIS DRAWING SUPERCEDES  
 CHN-2070-C ALL SHEETS.

MATERIAL SPECIFICATION:  
 STAINLESS PIPE A-358, GR 304, CL. 1  
 STAINLESS FITTINGS A-400MP304

24" X 1.219" NOM. WALL THK. SCH. 80 SS  
 20" X 1.031" NOM. WALL THK. SCH. 80 SS  
 20" X 1.031" NOM. WALL THK. SCH. 80 CS  
 6" X 0.432" NOM. WALL THK. SCH. 80S SS

ASME CC-1 (EQUIVALENT)



NATIONAL BOARD QUALIFICATION FOR WELDING NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

UNIT: TVIO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

DECATUR, ALABAMA 35602

6	REV	165	1/10	1002	10-11-74
ADD SHEET 2, ADD MATCH LINES TO 8" LINES					
5	REV	165	JES	CLB	7/2/74
REMOVE BENT CONNECTION					
4	REV	JES	JES	CLB	6-3-74
CHANGE DOWN-19 TO DOWN-19. CORRECT MFG. DRAWING NO.					
3	REV	165	JES	CLB	3-13-74
ADD LONGSEAM IDENTIFIER NOTE CORRECT WELD ID.					
2	REV	165	JMA	JES	2-29-74
REDRAW TO CADW, CORRECT MATERIAL SPEC. ADD LONG SEAMS					
1	REV	165	JES	EDC	2-27-74
ADD LONG SEAMS & CORRECT WELD, CHANGE MATCH LINE					
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
<b>BROWNS FERRY NUCLEAR PLANT</b>					
<b>UNIT 2</b>					
<b>RESIDUAL HEAT REMOVAL SYSTEM</b>					
<b>WELD LOCATIONS</b>					
DRAWN:	165	DATE:	6-20-74	SCALE:	N13
DESIGNED:	JES	APPROVED:		SHEET	01 OF 02



11-11-50

28390 \*

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 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 806-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : ISI-0271-C SHEET : 01  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
NSA-TSC	PC, THRS L	THERMO SLEEVE	R00000122	C00000036	BF-67	UT-45	19941003	PASS	NO		GEOMETRIC	NON-RELEVANT
			R00000122	C00000037	BF-67	UT-60	19941003	PASS	NO		GEOMETRIC	NON-RELEVANT
NSB-TSC	PC, THRS L	THERMO SLEEVE	R00000131	C00000048	BF-67	UT-45	19941004	PASS	NO		MODE CONVERS	NON-RELEVANT
			R00000131	C00000047	BF-67	UT-60	19941004	PASS	NO		MODE CONVERS	NON-RELEVANT

\*\*\*\*\*  
 NUTECH TENNESSEE VALLEY AUTHORITY PRISM  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 806-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 \*\*\*\*\*  
 SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : H/A SHEET : 00  
 \*\*\*\*\*

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REQST.	INDICATION TYPE	INDICATION RESOLUTION
CORESHR-2-H-1	RPV SHR	RPV INT	R00000438		SHRD31	UT-CRP	19941012	PASS	NO			
			R00000438		SHRD31	UT-45	19941012	PASS	NO			
			R00000438		SHRD31	UT-60L	19941012	PASS	NO			
CORESHR-2-H-2	RPV SHR	RPV INT	R00000438		SHRD31	UT-CRP	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK
			R00000438		SHRD31	UT-45	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK
			R00000438		SHRD31	UT-60L	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK
CORESHR-2-H-3	RPV SHR	RPV INT	R00000438		SHRD31	UT-CRP	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK
					SHRD31	UT-45	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK
			R00000438		SHRD31	UT-45	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK
			R00000438		SHRD31	UT-60L	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK
CORESHR-2-H-4	RPV SHR	RPV INT	R00000438		SHRD31	UT-CRP	19941012	PASS	NO			
			R00000438		SHRD31	UT-45	19941012	PASS	NO			
			R00000438		SHRD31	UT-60L	19941012	PASS	NO			
CORESHR-2-H-5	RPV SHR	RPV INT	R00000438		SHRD31	UT-CRP	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK
					SHRD31	UT-CRP	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK
					SHRD31	UT-CRP	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK
			R00000438		SHRD31	UT-45	19941012	ENCR	NO		SUBSURF, LIN	EVALUATED, OK

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED  
 COMMERCIAL SERVICE DATE: MARCH 1, 1975  
 NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

00267

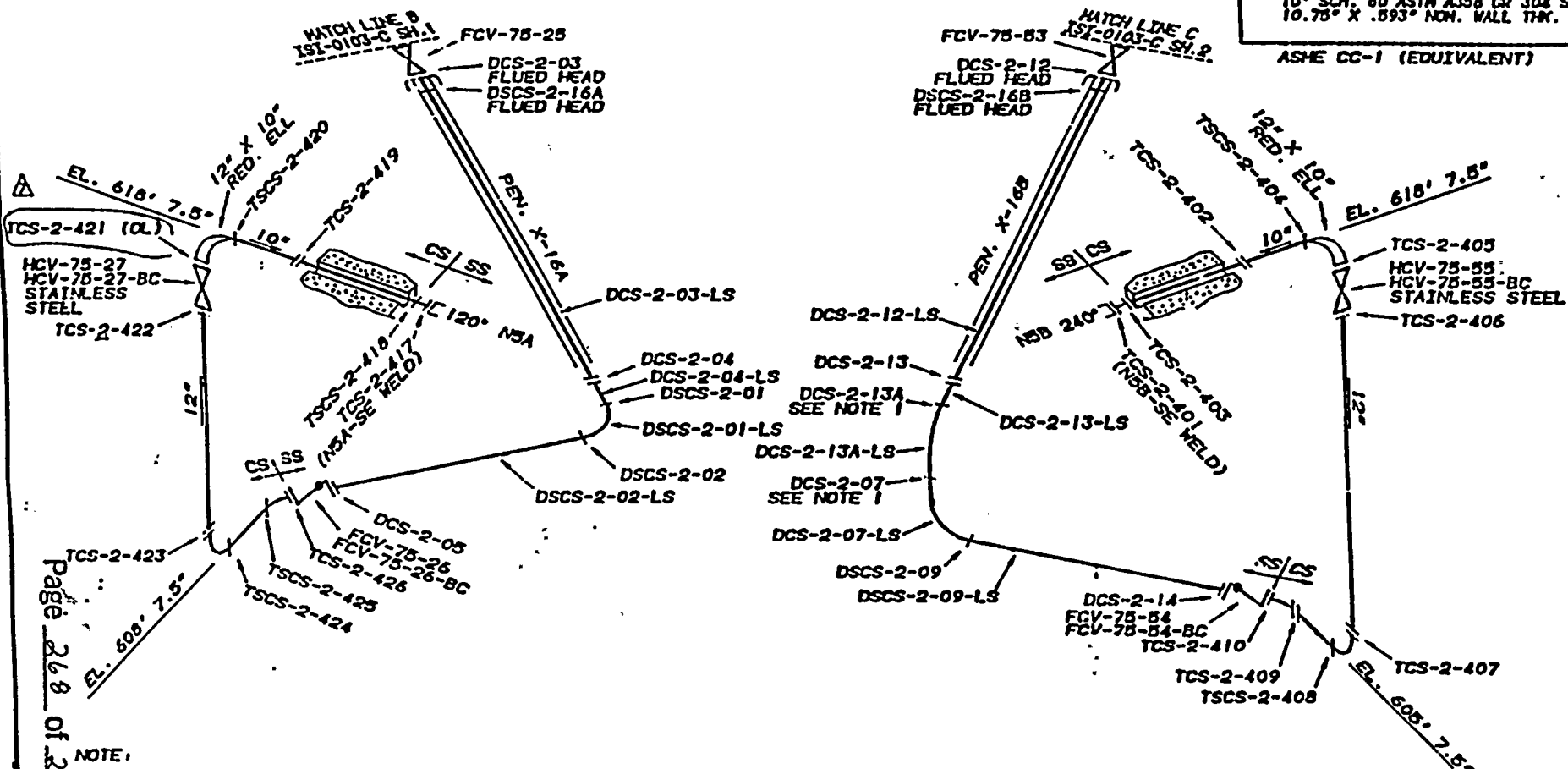


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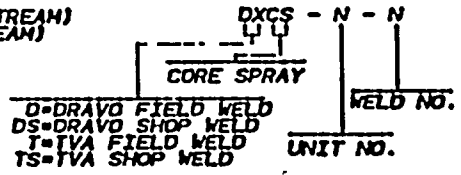
REFERENCE DRAWINGS  
 DRAVO E-2450-1C-34  
 DRAVO E-2458-1C-35  
 NOTE: THIS DRAWING SUPERSEDES CHN-2071-C  
 ALL SHEETS

MATERIAL SPECIFICATIONS  
 12" SCH. 80 SA 333 GR 6 CS  
 12.75" X .687" NOM. WALL THK.  
 12" SCH. 80 ASTM A338 GR 304 SS  
 12.75" X .687" NOM. WALL THK.  
 10" SCH. 80 SA 333 GR 6 CS  
 10.75" X .593" NOM. WALL THK.  
 10" SCH. 80 ASTM A338 GR 304 SS  
 10.75" X .593" NOM. WALL THK.  
 ASME CC-1 (EQUIVALENT)



- NOTE:
1. WELDS DCS-2-07 AND DCS-2-13A ARE DRAVO SHOP WELDS.
  2. PIPE SEGMENTS CONTAINING ONLY ONE LONGITUDINAL SEAM WILL BE IDENTIFIED AS:

(BASE WELD NO.)-LS-D (DOWNSTREAM)  
 (BASE WELD NO.)-LS-U (UPSTREAM)



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

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

UNIT: TVA  
 CHATTANOOGA, TENNESSEE 37402  
 P.O. BOX 6000  
 DECATUR, ALABAMA 35602

Page 268 of 271 00205

01	MS	JES	EDC	CLB	4-23-70
ADD TCS-2-421 TO DRAWING, CHG. SPEC. DEL. CABLE					
02	MS	JES	EDC	CLB	7-1-70
ADD NOTE 2					
03	MS	JES	EDC	CLB	12-19-70
ADD LONGSEAM WELD TCS-2-424-LS, CORRECT MATERIAL SPEC					
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE

TENNESSEE VALLEY AUTHORITY  
**BROWNS FERRY NUCLEAR PLANT**  
 UNIT 2  
 CORE SPRAY SYSTEM  
 WELD LOCATIONS

DRAWN:	MS	DATE:	8-17-69	SCALE:	AS SHOWN	SHEET:	01 OF 01	REV.	
CHECKED:	JES	APPROVED:							
DESIGNED:	DC								

7	MS	JES	EDC	CLB	3-13-72
ADD LONGSEAM IDENTIFIER NOTE					
8	MS	JES	EDC	CLB	3-20-71
ADD LONGSEAM IDENTIFIER NOTE					



SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : N/A SHEET : 00

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
CORESHR-2-H-5	RPV SHR	RPV INT	R00000438			SHRD31 UT-60L	19941012	ENCR	NO		SUBSURF, LIN EVALUATED,OK SUBSURF, LIN EVALUATED,OK SUBSURF, LIN EVALUATED,OK SUBSURF, LIN EVALUATED,OK SUBSURF, LIN EVALUATED,OK	
CORESHR-2-H-6	RPV SHR	RPV INT	R00000438 R00000438 R00000438			SHRD31 UT-CRP SHRD31 UT-45 SHRD31 UT-60L	19941012	PASS	NO NO NO			
CORESHR-2-H-7	RPV SHR	RPV INT	R00000438 R00000438 R00000438			SHRD31 UT-CRP SHRD31 UT-45 SHRD31 UT-60L	19941012	PASS	NO NO NO			
CSTEEBX-2-VIS	TEE BOX	RPV INT	R00000437			VT-3	19941013	PASS	NO			
IRHD TUBE-16-13	DRY TUB	RPV INT	R00000437			VT-3	19941013	FAIL	NO		CRACKS	REPLACED
IRHD TUBE-16-53	DRY TUB	RPV INT	R00000437			VT-3	19941013	PASS	NO			
IRHD TUBE-24-29	DRY TUB	RPV INT	R00000437			VT-3	19941013	PASS	NO			
IRHD TUBE-24-37	DRY TUB	RPV INT	R00000437			VT-3	19941013	FAIL	NO		CRACKS	REPLACED
IRHD TUBE-32-29	DRY TUB	RPV INT	R00000437			VT-3	19941013	FAIL	NO		CRACKS	REPLACED

SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 ISOMETRIC NUMBER : N/A SHEET : 00

FEATURE NUMBER	COMPONENT DESCRIPT.	CATEGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
IRHD TUBE-32-37	DRY TUB	RPV INT	R00000437			VT-3	19941013	FAIL	NO		CRACKS	REPLACED
IRHD TUBE-48-13	DRY TUB	RPV INT	R00000437			VT-3	19941013	PASS	NO			
IRHD TUBE-48-53	DRY TUB	RPV INT	R00000437			VT-3	19941013	PASS	NO			
JPADJSC-2-VIS	SCREWS	RPV INT	R00000437			VT-3	19941015	ENCR	NO		CRACKS	ANAL OK ACCP
JPRISBR-2-01	RISER	RPV INT	R00000437			VT-3	19941022	PASS	NO			
JPRISBR-2-02	RISER	RPV INT	R00000437			VT-3	19941022	PASS	NO			
JPRISBR-2-03	RISER	RPV INT	R00000437			VT-3	19941022	PASS	NO			
JPRISBR-2-04	RISER	RPV INT	R00000437			VT-3	19941022	PASS	NO			
JPRISBR-2-05	RISER	RPV INT	R00000437			VT-3	19941022	PASS	NO			
JPRISBR-2-06	RISER	RPV INT	R00000437			VT-3	19941022	PASS	NO			
JPRISBR-2-07	RISER	RPV INT	R00000437			VT-3	19941022	PASS	NO			



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N NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 806-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 PRISM  
 N PAGE 5  
 N REVISION 0002  
 N DATE 01/17/95  
 N  
 N SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 N ISOMETRIC NUMBER : N/A SHEET : 00

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
JPRISBR-2-08	RISER	RPV INT	R00000437			VT-3	19941022	PASS	NO			
JPRISBR-2-09	RISER	RPV INT	R00000437			VT-3	19941022	PASS	NO			
JPRISBR-2-10	RISER	RPV INT	R00000437			VT-3	19941022	PASS	NO			
JTSENLIH-2-VIS	RISER	RPV INT	R00000437			VT-3	19941016	PASS	NO			
SRHD TUBE-16-21	DRY TUB	RPV INT.	R00000437			VT-3	19941013	FAIL	NO		CRACKS	REPLACED
SRHD TUBE-16-45	DRY TUB	PPV INT	R00000437			VT-3	19941013	FAIL	NO		CRACKS	REPLACED
SRHD TUBE-40-21	DRY TUB	RPV INT	R00000437			VT-3	19941013	PASS	NO			
SRHD TUBE-40-45	DRY TUB	RPV INT	R00000437			VT-3	19941013	FAIL	NO		CRACKS	REPLACED
STHDCH-4-WELD	WELDS	RPV INT	R00000437			VT-3	19941013	PASS	NO			

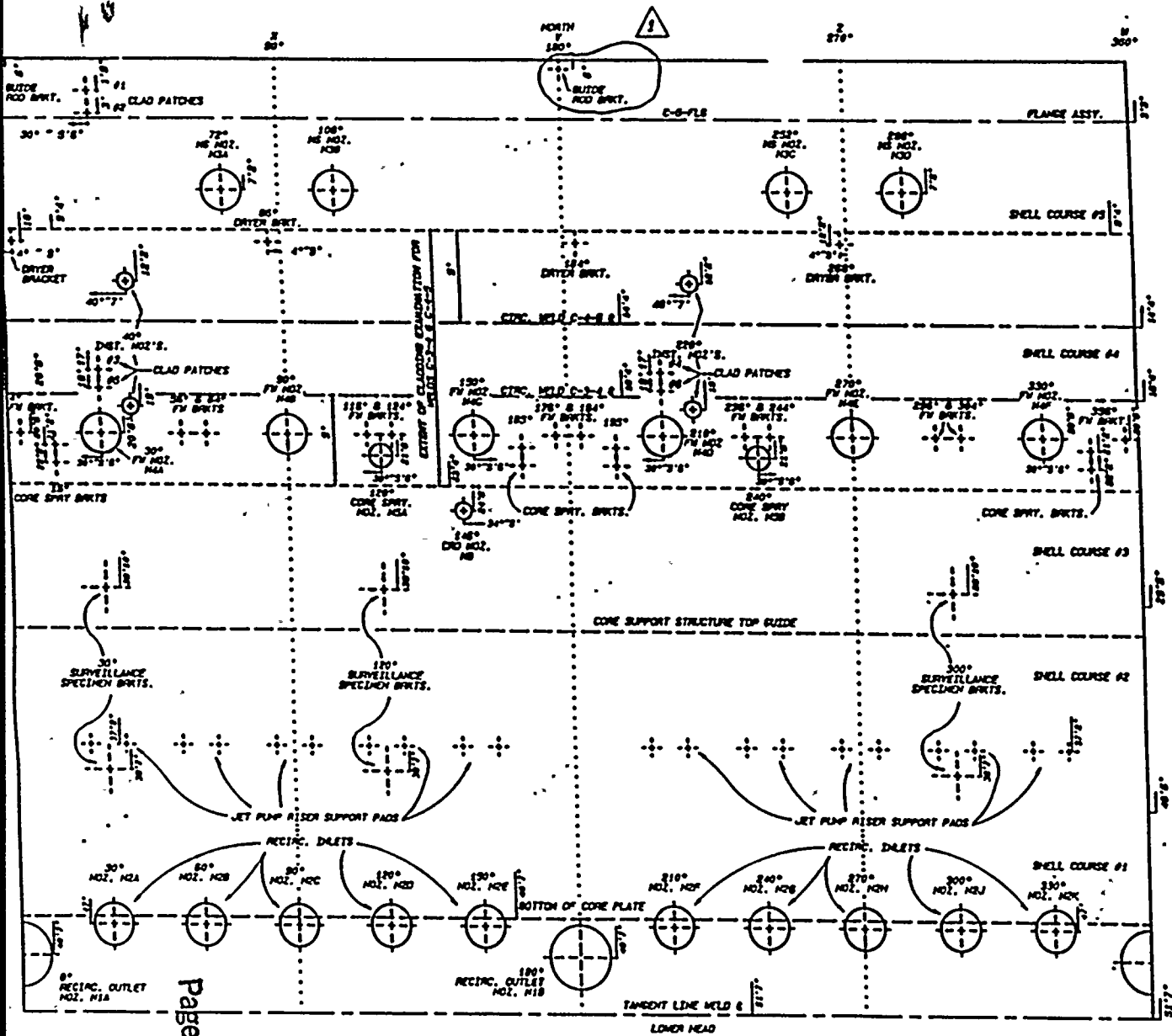
N NUTECH  
 TENNESSEE VALLEY AUTHORITY  
 BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2  
 ISI DATA BASE  
 POST OUTAGE EXAMINATION RESULTS REPORT  
 EXAM REQUIREMENT : 802-02 CYCLE : 07  
 INTERVAL : 02 PERIOD : 1  
 PRISM  
 N PAGE 1  
 N REVISION 0002  
 N DATE 01/17/95  
 N  
 N SYSTEM : RPV REACTOR PRESSURE VESSEL (NUCLEAR BOILER) - 068  
 N ISOMETRIC NUMBER : C84-2046-C SHEET : 02

FEATURE NUMBER	COMPONENT DESCRIPT.	CATGORY/ ITEM NO.	EXAMINATION REPORT NO.	CAL. REPORT NO.	CAL. STD.	EXAM TYPE	EXAM DATE	EXAM RESULT	SEC XI CREDIT	RELIEF REOST.	INDICATION TYPE	INDICATION RESOLUTION
RPV-CLAD	INT SUR	B-H-1 R13.10	R00000437			VT-1	19941019	PASS	NO			

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REFERENCE DRAW  
 500733-001C  
 24187-F (B&H  
 122856E



NOTE: FOUR (4) STEAM DRYER HOLDOOWN BRACKETS (NOT SHOWN) ARE LOCATED IN THE VESSEL CLOSURE HEAD 10° UP FROM THE FLANGE. THESE ARE AT AZIMUTH LOCATIONS 41°, 139°, 221°, AND 319°.

M:7  
 R:1

CONTROLLED

Page 221 of 221

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

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

DATE: 2-17-81	BY: GLOTT, AND	DATE: 2-17-81	BY: GLOTT, AND
DATE: 2-17-81	BY: GLOTT, AND	DATE: 2-17-81	BY: GLOTT, AND
DATE: 2-17-81	BY: GLOTT, AND	DATE: 2-17-81	BY: GLOTT, AND
TENNESSEE VALLEY AUTHORITY			
BROWNS FERRY NUCLEAR PLANT			
UNIT 2			
REACTOR VESSEL WELD AND NOZZLE LOCATIONS (INTERIOR MALL)			
DRAWN BY: JEF	DESIGNED BY: JEF	DATE: 2-17-81	SCALE: 1/8" = 1'-0"
DATE: 2-17-81	EDC	GLB	1/8" = 1'-0"

