

SOUTHERN COMPANY SERVICES  
MECHANICAL DESIGN  
INSERVICE INSPECTION GROUP  
FOR  
GEORGIA POWER COMPANY

ISI-P-010

PRESERVICE INSPECTION PROGRAM  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT 2

REV	DATE	DESCRIPTION	SCS			GPC		
			PREP'D BY	REV'D BY	DEPT MGR	REV'D BY	SUPT PLANT ENG	PLANT MGR
0	4/19/84	Issued for PSI	<i>RLB</i>	<i>ft</i>	<i>gm</i>	<i>jac</i>	<i>gof</i> <i>KMB</i>	<i>ap</i> <i>4/3/84</i>

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PRESERVICE INSPECTION PROGRAM  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT 2

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## 1.0 INTRODUCTION

### 1.1 General

This document details the scope of preservice inspections for the Vogtle Electric Generating Plant (VEGP) - Unit 2 and includes the following points of interest:

- Schedule of inspections.
- Piping classification drawings.
- Identification of all areas to be examined.

The American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Division 1, 1980 Edition through Winter 1980 Addenda is used voluntarily for preservice inspection (PSI). The actual edition applicable to preservice inspection is the 1971 Edition through the Winter 1972 Addenda. It is intended that the same code edition and addenda be applicable both to preservice and the first interval of inservice inspections. Therefore, the contents of this document are subject to change (with approval) during preservice inspection. Additionally, inspection program B will be used as defined by IWA-2400, ASME Code, Section XI.

### 1.2 Scope

This document is a description of the preservice inspection program for Class 1, 2, and 3 components.

### 1.3 Component Upgrading

Plant components have been reviewed to determine the appropriate classification for examination. The inservice inspection (ISI) piping classification drawings are shown in section 6.0. It must be noted, however, that the classification of components as ISI Class 1, 2, or 3 for inservice inspection does not imply that the components were designed or constructed in accordance with the same classification requirements. The component design codes remain as stated in the VEGP Final Safety Analysis Report (FSAR).

### 1.4 Responsibility

Georgia Power Company (GPC) bears the overall responsibility for the performance of the preservice inspections. Certain nondestructive examinations may be performed by a qualified inspection agency. The results of such examinations will be reported to GPC for final evaluation and disposition.



## 1.5 Records

Records and documentation of all information and inspection results, which provide the basis for evaluation and which facilitate comparison with results from subsequent inspections, will be available for the active life of the plant.

## 1.6 Methods of Examination

The method of examination planned for each area is delineated in subsequent sections. Personnel performing nondestructive examinations will be qualified in accordance with the ASME Code.

### 1.6.1 Eddy Current

Eddy current (ET) examinations may be performed on the steam generator tubing as applicable.

### 1.6.2 Liquid Penetrant

Dye penetrant (PT) examinations may be performed whenever a surface examination is required on nonmagnetic components.

### 1.6.3 Magnetic Particle

Magnetic particle (MT) examinations usually may be used when surface examination of carbon steel components is required.

### 1.6.4 Radiographic

Radiographic (RT) techniques may be used as an alternative method to ultrasonic examinations.

### 1.6.5 Ultrasonic

Ultrasonic (UT) examinations shall be conducted in accordance with the provisions of Appendix III of Section XI, ASME Code, for carbon steel and stainless steel piping and Section V, ASME Code, for other UT examinations to the extent practical. The reactor vessel will be examined to the requirements of Regulatory Guide 1.150, Rev. 1 to the extent practical.

### 1.6.6 Visual Tests

A visual (VT) examination will be employed to provide evidence of leakage or to provide a report of the general condition of the component.

- A. The VT-1 examination shall be performed to determine corrosion, erosion, wear, cracks, or physical damage of the part, component, or surface being inspected.
- B. The VT-2 examination shall be performed to determine and locate leakages from pressure retaining components or excessive leakage from components without leakage collection systems.
- C. The VT-3 examination shall be performed to determine the structural, general, and physical conditions of components or their supports.
- D. The VT-4 examination shall be performed to determine the operability of support components and their mechanical or hydraulic devices.

#### 1.7 Evaluation of Examination Results

Examination results are evaluated per IWA-3000, IWB-3000, and IWF-3000 of the ASME Code, Section XI. Articles IWC-3000 and IWD-3000 entitled "Evaluation of Examination Results" are in the course of preparation and, as yet, are not available for use. Therefore, the rules of IWB-3000 may be utilized for ISI Class 2 and 3 components.

#### 1.8 Repair Procedures

Repair procedures will be developed as required.

#### 1.9 Augmented Inspections

The Nuclear Regulatory Commission (NRC) has required certain augmented inspections as added assurance of structural reliability. The areas of interest and the examinations to be performed are as follows:

1.9.1 The reactor coolant pump flywheel shall be examined in accordance with plant Technical Specification 4.4.10 and FSAR paragraph 1.9.14.2. (See item 45 under Class 1 components.)

1.9.2 The steam generator tubing shall be examined in accordance with plant Technical Specification 4.4.5 and FSAR paragraph 1.9.83.2. (See item 61 under Class 1 components.)

1.9.3 Certain portions of the ISI Class 2 piping, which penetrate containment, are designated as high energy lines. An augmented inspection program is provided for those lines in accordance with FSAR, subsection 6.6.8. Areas designated for augmented examinations are noted on the ISI classification drawings in section 6.0 of this manual.

#### 1.10 Limitations of Examinations

The preservice inspection program outlined in the following tabulations has been developed as a result of a design review. Any limitations to examinations found during the conduct of the preservice inspection will be documented in the final report. The tabulations address ASME Code, Section XI requirements, some of which are not applicable to VEGP. Those code items which address welds or components which do not exist at VEGP are not given a program item number and under the comments column the following designation appears: N/A to VEGP.

## 2.0 CLASS 1 SYSTEMS AND COMPONENTS

### 2.1 Purpose

The purpose of this section is to define a baseline inspection program for Class 1 systems and components to meet the intent of Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through Winter 1980 Addenda.

### 2.2 Inspection Schedule

As much as practicable, Class 1 systems and components, other than the steam generator tubes, shall be examined prior to the cold hydro. All items still outstanding, including the steam generator tubes, shall be examined following the cold hydro but prior to commercial operation.

### 2.3 Inspection Scope

Areas subject to preservice inspection are shown in the following tables by examination category. The preservice examination will include essentially 100 percent of the nonexempt pressure retaining welds in Class 1 components, to the extent practicable, per IWB-2000.

# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWB-2500-1 Examination Categories

### B-A, PRESSURE RETAINING WELDS IN REACTOR VESSEL<sup>1</sup>

Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	B1.10	Shell Welds						
1	B1.11	Circumferential	IWB-2500-1	UT				
2	B1.12	Longitudinal	IWB-2500-2	UT				
N/A	B1.20	Head Welds						
3	B1.21	Circumferential	IWB-2500-3	UT				
4	B1.22	Meridional	IWB-2500-3	UT				
5	B1.30	Shell-to-Flange Weld	IWB-2500-4	UT				
6	B1.40	Head-to-Flange Weld	IWB-2500-5	UT	PT/MT			
N/A	B1.50	Repair Welds		N/A	N/A	N/A		N/A to VEGP.
N/A	B1.51	Beltline Region	IWB-2500-1,2	N/A	N/A	N/A		N/A to VEGP.

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

### B-B, PRESSURE RETAINING WELDS IN VESSELS OTHER THAN REACTOR VESSELS

Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	B2.10	<u>Pressurizer</u> Shell-to-Head Welds		N/A	N/A	N/A		
7	B2.11	Circumferential	IWB-2500-1	UT				
8	B2.12	Longitudinal	IWB-2500-2	UT				
N/A	B2.20	Head Welds		N/A	N/A	N/A		N/A to VEGP.
N/A	B2.21	Circumferential	IWB-2500-3	N/A	N/A	N/A		N/A to VEGP.
N/A	B2.22	Meridional	IWB-2500-3	N/A	N/A	N/A		N/A to VEGP.
		<u>Steam Generators</u> (Primary Side)						
N/A	B2.30	Head Welds		N/A	N/A	N/A		N/A to VEGP.
N/A	B2.31	Circumferential	IWB-2500-3	N/A	N/A	N/A		N/A to VEGP.
N/A	B2.32	Meridional	IWB-2500-3	N/A	N/A	N/A		N/A to VEGP.
9	B2.40	Tubesheet-to-Head Weld	IWB-2500-6	UT				
		<u>Heat Exchangers</u> (Primary Side)						
N/A	B2.50	Shell (or Head) Welds		N/A	N/A	N/A		N/A to VEGP.
N/A	B2.51	Circumferential	IWB-2500-1,3	N/A	N/A	N/A		N/A to VEGP.
N/A	B2.52	Longitudinal (or Meridional)	IWB-2500-2,3	N/A	N/A	N/A		N/A to VEGP.
N/A	B2.60	Tubesheet-to-Shell (or Head) Welds	IWB-2500-6	N/A	N/A	N/A		N/A to VEGP.

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-D, FULL PENETRATION WELDS OF NOZZLES IN VESSELS - INSPECTION PROGRAM B

Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
10	B3.90	<u>Reactor Vessel</u> Nozzle-to-Vessel Welds	IWB-2500-72	UT				
11	B3.100	Nozzle Inside Radius Section	IWB-2500-72	UT				
12	B3.110	<u>Pressurizer</u> Nozzle-to-Vessel Welds	IWB-2500-72	UT				
13	B3.120	Nozzle Inside Radius Section	IWB-2500-72	UT				
N/A	B3.130	<u>Steam Generators (Primary Side)</u> Nozzle-to-Vessel Welds	IWB-2500-7	N/A	N/A	N/A		N/A to VEGP.
14	B3.140	Nozzle Inside Radius Section	IWB-2500-7	UT				
N/A	B3.150	<u>Heat Exchangers (Primary Side)</u> Nozzle-to-Vessel Welds	IWB-2500-7	N/A	N/A	N/A		N/A to VEGP.
N/A	B3.160	Nozzle Inside Radius Section	IWB-2500-7	N/A	N/A	N/A		N/A to VEGP.

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-E, PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
15	B4.10	Partial Penetration Welds						
N/A	B4.11	Vessel Nozzles	External	N/A	N/A	N/A		
16	B4.12	Control Rod Drive Nozzles	Surfaces			N/A		N/A to PSI <sup>3</sup> .
17	B4.13	Instrumentation Nozzles	External Surfaces			N/A		N/A to PSI <sup>3</sup> .
18	B4.20	Pressurizer Heater Penetration Welds	External Surfaces			N/A		N/A to PSI <sup>3</sup> .

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-F, PRESSURE RETAINING DISSIMILAR METAL WELDS								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
19	B5.10	Reactor Vessel Nominal Pipe Size $\geq 4$ in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	UT	PT/MT			
N/A	B5.11	Nominal Pipe Size $< 4$ in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
N/A	B5.12	Nozzle-to-Safe End Socket Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
20	B5.20	Pressurizer Nominal Pipe Size $\geq 4$ in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	UT	PT/MT			
N/A	B5.21	Nominal Pipe Size $< 4$ in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
N/A	B5.22	Nozzle-to-Safe End Socket Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-F, CONTINUED								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
21	B5.30	<u>Steam Generator</u> Nominal Pipe Size > 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	UT	PT/MT			
N/A	B5.31	Nominal Pipe Size < 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
N/A	B5.32	Nozzle-to-Safe End Socket Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
N/A	B5.40	<u>Heat Exchangers</u> Nominal Pipe Size > 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
N/A	B5.41	Nominal Pipe Size < 4 in. Nozzle-to-Safe-End Butt Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
N/A	B5.42	Nozzle-to-Safe End Socket Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-F, CONTINUED

Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	B5.50	<u>Piping</u> Nominal Pipe Size > 4 in. Dissimilar Metal Butt Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
N/A	B5.51	Nominal Pipe Size < 4 in. Dissimilar Metal Socket Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
N/A	B5.52	Dissimilar Metal Socket Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-G-1, PRESSURE-RETAINING BOLTING, GREATER THAN 2 INCHES IN DIAMETER

Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
22	B6.10	<u>Reactor Vessel</u> Closure Head Nuts	Later		MT/PT			
23	B6.20	Closure Studs (in place)	IWB-2500-12	UT				Perform 23 or 24.
24	B6.30	Closure Studs (removed)	IWB-2500-12	UT	MT/PT			Perform 23 or 24.
25	B6.40	Threads in Flange	IWB-2500-12	UT				
26	B6.50	Closure Washers, Bushings	Surfaces			VT-1		
N/A	B6.60	<u>Pressurizer</u> Bolts and Studs	IWB-2500-12	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.70	Flange Surface (when connection disassembled)	Surfaces	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.80	Nuts, Bushings, and Washers	Surfaces	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.90	<u>Steam Generators</u> Bolts and Studs	IWB-2500-12	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.100	Flange Surface (when connection disassembled)	Surfaces	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.110	Nuts, Bushings, and Washers	Surfaces	N/A	N/A	N/A		N/A to VEGP.

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-G-1, CONTINUED								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	B6.120	Heat Exchangers	IWB-2500-12 Surfaces	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.130	Bolts and Studs Flange Surface (when connection disassembled)		N/A	N/A	N/A		N/A to VEGP.
N/A	B6.140	Nuts, Bushings, and Washers	Surfaces	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.150	Piping	IWB-2500-12 Surfaces	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.160	Bolts and Studs Flange Surface (when connection disassembled)		N/A	N/A	N/A		N/A to VEGP.
N/A	B6.170	Nuts, Bushings, and Washers	Surfaces	N/A	N/A	N/A		N/A to VEGP.
27	B6.180	Pumps	IWB-2500-12 Surfaces	UT		VT-1		
28	B6.190	Bolts and Studs Flange Surface (when connection disassembled)				VT-1		
29	B6.200	Nuts, Bushings, and Washers	Surfaces			VT-1		

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-G-1, CONTINUED

Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	B6.210	Valves	IWB-2500-12	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.220	Bolts and Studs Flange Surface (when connection disassembled)		N/A	N/A	N/A		N/A to VEGP.
N/A	B6.230	Nuts, Bushings, and Washers	Surfaces	N/A	N/A	N/A		N/A to VEGP.

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-G-2, PRESSURE RETAINING BOLTING, 2 INCHES AND LESS IN DIAMETER

Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	B7.10	<u>Reactor Vessel</u> Bolts, Studs, and Nuts	Surface	N/A	N/A	N/A		N/A to VEGP.
30	B7.20	<u>Pressurizer</u> Bolts, Studs, and Nuts	Surface			VT-1		
31	B7.30	<u>Steam Generators</u> Bolts, Studs, and Nuts	Surface			VT-1		
N/A	B7.40	<u>Heat Exchangers</u> Bolts, Studs, and Nuts	Surface	N/A	N/A	N/A		N/A to VEGP.
32	B7.50	<u>Piping</u> Bolts, Studs, and Nuts	Surface			VT-1		
33	B7.60	<u>Pumps</u> Bolts, Studs, and Nuts	Surface			VT-1		
34	B7.70	<u>Valves</u> Bolts, Studs, and Nuts <u>CRD Housings</u>	Surface			VT-1		
35	B7.80	Bolts, Studs, and Nuts	Surface			VT-1		

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-H, INTEGRAL ATTACHMENTS FOR VESSELS								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	B8.10	Reactor Vessel Integrally Welded Attachments	IWB-2500-13, 14, and 15	N/A	N/A	N/A		N/A to VEGP.
36	B8.20	Pressurizer Integrally Welded Attachments	IWB-2500-13 and 15		PT/MT			Figure IWB-2500-14 N/A to VEGP.
N/A	B8.30	Steam Generator Integrally Welded Attachments	IWB-2500-13, 14, and 15	N/A	N/A	N/A		N/A to VEGP.
N/A	B8.40	Heat Exchangers Integrally Welded Attachments	IWB-2500-13, 14, and 15	N/A	N/A	N/A		N/A to VEGP.

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-J, PRESSURE RETAINING WELDS IN PIPING								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	B9.10	Nominal Pipe Size $\geq 4$ in.						
37	B9.11	Circumferential Welds	IWB-2500-8	UT	PT/MT			
N/A	B9.12	Longitudinal Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
N/A	B9.20	Nominal Pipe Size $< 4$ in.						
38	B9.21	Circumferential Welds	IWB-2500-8		PT/MT			
N/A	B9.22	Longitudinal Welds	IWB-2500-8	N/A	N/A	N/A		N/A to VEGP.
N/A	B9.30	Branch Pipe Connection Welds						
39	B9.31	Nominal Pipe Size $\geq 4$ in.	IWB-2500-9, 10 and 11	UT	PT/MT			
40	B9.32	Nominal Pipe Size $< 4$ in.	IWB-2500-9, 10, and 11		PT/MT			
41	B9.40	Socket Welds	IWB-2500-8		PT/MT			

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Preservice Inspection

Table IWB-2500-1 Examination Categories

B-K-1, INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES

Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
42	B10.10	<u>Piping</u> Integrally Welded Attachments	IWB-2500-15		PT/MT			Figures IWB-2500-13 and 14 N/A to VEGP <sup>4</sup> .
N/A	B10.20	<u>Pumps</u> Integrally Welded Attachments	IWB-2500-13, 14, and 15	N/A	N/A	N/A		N/A to VEGP <sup>4</sup> .
N/A	B10.30	<u>Valves</u> Integrally Welded Attachments	IWB-2500-13, 14, and 15	N/A	N/A	N/A		N/A to VEGP <sup>4</sup> .

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## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-L-1, B-M-1, PRESSURE RETAINING WELDS IN PUMP CASINGS AND VALVE BODIES B-L-2, B-M-2, PUMP CASINGS AND VALVE BODIES								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A 43	B12.10 B12.20	<u>Pumps</u> Pump Casing Welds Pump Casing	IWB-2500-16 Internal Surfaces	N/A	N/A	N/A VT-3		N/A to VEGP.
N/A	B12.30	Valves, Nominal Pipe Size < 4 in. Valve Body Welds	IWB-2500-17	N/A	N/A	N/A		N/A to VEGP.
N/A	B12.31	Valves, Nominal Pipe Size ≥ 4 in. Valve Body Welds	IWB-2500-17	N/A	N/A	N/A		N/A to VEGP.
44	B12.40	Valve Body > 4 in. Nominal Pipe Size	Internal Surfaces			VT-3		
45	N/A	Reactor Coolant Pump Flywheel	Volume Keyways	AUT N/A	N/A APT	N/A N/A		See subsection 1.9.1 in introduction <sup>5</sup> .

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-N-1, INTERIOR OF REACTOR VESSEL

B-N-2, INTEGRALLY WELDED CORE SUPPORT STRUCTURES AND INTERIOR ATTACHMENTS TO REACTOR VESSELS

B-N-3, REMOVEABLE CORE SUPPORT STRUCTURES

Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
46	B13.10	<u>Reactor Vessel</u> Vessel Interior	Accessible Areas			VT-3		
N/A	B13.20	<u>Reactor Vessel</u> (BWR) Interior Attachments	Accessible Welds	N/A	N/A	N/A		N/A to VEGP.
N/A	B13.21	Core Support Structure	Accessible Surfaces	N/A	N/A	N/A		N/A to VEGP.
47	B13.30	<u>Reactor Vessel</u> (PWR) Core Support Structure	Accessible Welds Accessible Surfaces			VT-3 VT-3		

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Vogtle Electric Generating Plant Unit No. 2

Preservice Inspection

Table IWB-2500-1 Examination Categories

B-C, PRESSURE RETAINING WELDS IN CONTROL ROD HOUSING								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
49	B14.10	Reactor Vessel Welds in CRD Housing	IWB-2500-18	UT or	PT/MT			See figure IWB-1500-18 for appropriate examination methods.

# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-P, ALL PRESSURE RETAINING COMPONENTS								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
49	B15.10	<u>Reactor Vessel</u> Pressure Retain- ing Boundary	System Leak- age Test IWB-5221			N/A		N/A to PSI <sup>6</sup> .
50	B15.11	Pressure Retain- ing Boundary	System Hydro- test IWB-5222			N/A		N/A to PSI <sup>6</sup> .
51	B15.20	<u>Pressurizer</u> Pressure Retain- ing Boundary	System Leak- age Test IWB-5221			N/A		N/A to PSI <sup>6</sup> .
52	B15.21	Pressure Retain- ing Boundary	System Hydro- test IWB-5222			N/A		N/A to PSI <sup>6</sup> .
53	B15.30	<u>Steam Generators</u> Pressure Retain- ing Boundary	System Leak- age Test IWB-5221			N/A		N/A to PSI <sup>6</sup> .
54	B15.31	Pressure Retain- ing Boundary	System Hydro- test IWB-5222			N/A		N/A to PSI <sup>6</sup> .
N/A	B15.40	<u>Heat Exchangers</u> Pressure Retain- ing Boundary	System Leak- age Test IWB-5221	N/A	N/A	N/A		N/A to VEGP.
N/A	B15.41	Pressure Retain- Boundary	System Hydro- test IWB-5222	N/A	N/A	N/A		N/A to VEGP.

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-P, CONTINUED								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
55	B15.50	<u>Piping</u> Pressure Retain- ing Boundary	System Leak- age Test IWB-5221			N/A		N/A to PSI 6.
56	B15.51	Pressure Retain- ing Boundary	System Hydro- test IWB-5222			N/A		N/A to PSI 6.
57	B15.60	<u>Pumps</u> Pressure Retain- ing Boundary	System Leak- age Test IWB-5221			N/A		N/A to PSI 6.
58	B15.61	Pressure Retain- ing Boundary	System Hydro- test IWB-5222			N/A		N/A to PSI 6.
59	B15.70	<u>Valves</u> Pressure Retain- ing Boundary	System Leak- age Test IWB-5221			N/A		N/A to PSI 6.
60	B15.71	Pressure Retain- ing Boundary	System Hydro- test IWB-5222			N/A		N/A to PSI 6.

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWB-2500-1 Examination Categories

B-Q, STEAM GENERATOR TUBING								
Program Item	IWB-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	B16.10	Steam Generator Tubing in Straight Tube Design	Entire length of tubing	N/A	N/A	N/A		N/A to VEGP.
61	B16.20	Steam Generator Tubing in U-Tube Design	Tubing - hot leg side, U-bend portion and optionally cold leg side	ET				See subsection 1.9.2 in Introduction.

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NOTES - IWB TABLE

1. See FSAR paragraph 1.9.150.2.
2. The examination volumes shall apply to the applicable figure shown in figures IWB-2500-7(a) through (d).
3. See IWA-5215: A preservice system hydrostatic test is not required for ASME Code, Section XI.
4. Includes those attachments whose base material design thickness is 5/8 inches and greater.
5. The augmented ultrasonic examination and the augment dye penetrant examination are abbreviated AUT and APT, respectively.
6. ASME Code, Section III hydro is performed in lieu of Section XI system leakage test IWB-5221 and system hydrostatic test IWB-5222.

### 3.0 CLASS 2 SYSTEMS AND COMPONENTS

#### 3.1 Purpose

The purpose of this section is to define a baseline inspection program for Class 2 systems and components to meet the intent of Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through the Winter 1980 Addenda.

#### 3.2 Inspection Schedule

As much as practicable, Class 2 systems and components shall be examined prior to the cold hydro. All items still outstanding shall be examined following the cold hydro but prior to commercial operation.

#### 3.3 Inspection Scope

Areas subject to preservice inspection are shown in the following tables by examination category. Welds initially selected for examination will be reexamined over the service lifetime of the piping component.

# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWC-2500-1 Examination Categories

C-A, PRESSURE RETAINING WELDS IN PRESSURE VESSELS								
Program Item	IWC-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
1	Cl.10	Shell Circumferential Welds	IWC-2500-1	UT				
N/A	Cl.20	Head Circumferential Welds	IWC-2500-1	N/A	N/A	N/A		N/A to VEGP.
2	Cl.30	Tubesheet-to-Shell Weld	IWC-2500-2	UT				

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWC-2500-1 Examination Categories

### C-B, PRESSURE RETAINING NOZZLE WELDS IN VESSELS

Program Item	IWC-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
3	C2.10	Nozzles in Vessels $\leq 1/2$ in. nominal thickness	IWC-2500-3		PT/MT			
N/A	C2.20	Nozzles in Vessels $> 1/2$ in. nominal thickness		N/A	N/A	N/A		
4	C2.21	Nozzle-to-Shell (or Head) Weld	IWC-2500-4	UT	PT/MT			
5	C2.22	Nozzle Inside Radius Section	IWC-2500-4	UT				

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWC-2500-1 Examination Categories

### C-C, INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, AND VALVES

Program Item	IWC-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
6	C3.10	<u>Pressure Vessels</u> Integrally Welded Attachments <sup>1</sup>	IWC-2500-5		PT/MT			
7	C3.40	<u>Piping</u> Integrally Welded Attachments <sup>1</sup>	IWC-2500-5		PT/MT			
8	C3.70	<u>Pumps</u> Integrally Welded Attachments <sup>1</sup>	IWC-2500-5		PT/MT			
N/A	C3.100	<u>Valves</u> Integrally Welded Attachments <sup>1</sup>	IWC-2500-5	N/A	N/A	N/A		N/A to VEGP.

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWC-2500-1 Examination Categories

C-D, PRESSURE RETAINING BOLTING, GREATER THAN 2 INCHES IN DIAMETER

Program Item	IWC-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	C4.10	<u>Pressure Vessels</u> Bolts and Studs	IWC-2500-6	N/A	N/A	N/A		N/A to VEGP.
N/A	C4.20	<u>Piping</u> Bolts and Studs	IWC-2500-6	N/A	N/A	N/A		N/A to VEGP.
N/A	C4.30	<u>Pumps</u> Bolts and Studs	IWC-2500-6	N/A	N/A	N/A		N/A to VEGP.
N/A	C4.40	<u>Valves</u> Bolts and Studs	IWC-2500-6	N/A	N/A	N/A		N/A to VEGP.

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWC-2500-1 Examination Categories

C-F, PRESSURE RETAINING WELDS IN PIPING								
Program Item	IWC-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
N/A	C5.10	Piping Welds - ≤ 1/2 in. nominal wall thickness						
9	C5.11	Circumferen- tial Weld <sup>2</sup>	IWC-2500-7		PT/MT			
N/A	C5.12	Longitudinal Weld	IWC-2500-7	N/A	N/A	N/A		N/A to VEGP.
N/A	C5.20	Piping Welds - > 1/2 in. nominal wall thickness						
10	C5.21	Circumferen- tial Weld <sup>2</sup>	IWC-2500-7	UT	PT/MT			
N/A	C5.22	Longitudinal Weld	IWC-2500-7	N/A	N/A	N/A		N/A to VEGP.
N/A	C5.30	Pipe Branch Con- nections						
11	C5.31	Circumferen- tial Weld <sup>2</sup>	IWC-2500-9		PT/MT			
N/A	C5.32	Longitudinal Weld	IWC-2500-7	N/A	N/A	N/A		N/A to VEGP.
12	N/A	Augmented		AUT	N/A	N/A		See subsection 1.9.3 in Introduction <sup>3</sup> .

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWC-2500-1 Examination Categories

C-G, PRESSURE RETAINING WELDS IN PUMPS AND VALVES								
Program Item	IWC-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
13	C6.10	<u>Pumps</u> Pump Casing Welds	IWC-2500-8		PT/MT			
N/A	C6.20	<u>Valves</u> Valve Body Welds	IWC-2500-8	N/A	N/A	N/A		N/A to VEGP.

# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWC-2500-1 Examination Categories

C-H, ALL PRESSURE RETAINING COMPONENTS								
Program Item	IWC-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
3-8	14	<u>Pressure Vessels</u> Pressure Retaining Components	IWC-5221 Test			N/A		N/A to PSI <sup>5</sup> .
	15	C7.11 Pressure Retaining Components	IWC-5222 Test			N/A		N/A to PSI <sup>4,5</sup> .
	16	<u>Piping</u> Pressure Retaining Components	IWC-5221 Test			N/A		N/A to PSI <sup>5</sup> .
	17	C7.21 Pressure Retaining Components	IWC-5222 Test			N/A		N/A to PSI <sup>4,5</sup> .
	18	<u>Pumps</u> Pressure Retaining Components	IWC-5221 Test			N/A		N/A to PSI <sup>5</sup> .
	19	C7.31 Pressure Retaining Components	IWC-5222 Test			N/A		N/A to PSI <sup>4,5</sup> .
	20	<u>Valves</u> Pressure Retaining Components	IWC-5221 Test			N/A		N/A to PSI <sup>5</sup> .
	21	C7.41 Pressure Retaining Components	IWC-5222 Test			N/A		N/A to PSI <sup>4,5</sup> .

NOTES - IWC TABLE

1. Limited to integrally welded attachments whose base material design thickness is 3/4 in. or greater.
2. The welds selected for examination shall include:
  - a. All welds at locations where the stresses under the loadings resulting from normal and upset plant conditions as calculated by the sum of equations 9 and 10 in NC-3652 exceed  $0.8 (1.2 S_h + S_A)$ .
  - b. All welds at terminal ends (see e below) of piping or branch runs.
  - c. All dissimilar metal welds.
  - d. Additional welds, at structural discontinuities (see f below), such that the total number of welds selected for examination includes the following percentages of circumferential piping welds:

For pressurized water reactors:

1. none of the welds exempted by IWC-1220;
  2. none of the welds in residual heat removal and emergency core cooling systems (see g below);
  3. 10 percent of the main steam system welds 8 in. nominal pipe size and smaller;
  4. 25 percent of the welds in all other systems.
- e. Terminal ends are the extremities of piping runs that connect to structures, components (such as vessels, pumps, valves), or pipe anchors, each of which act as rigid restraints or provide at least  $2^\circ$  of restraint to piping thermal expansion.
  - f. Structural discontinuities include pipe weld joints to vessel nozzles, valve bodies, pump casings, pipe fittings (such as elbows, tees, reducers, flanges, etc. conforming to ANSI B16.9), and pipe branch connections and fittings.
  - g. Examination requirements are under development by the ASME code. The extent of examination for these systems shall be determined by the requirements of paragraph IWC-1220, Table IWC-2520 categories C-F and C-G, and paragraph IWC-2411 in the ASME Code, Section XI, 1974 Edition through Winter 1975 Addenda. Alternatively,

when the examination requirements are developed by the ASME Code and approved to be used by the NRC, the extent of examination may be determined from such newly developed requirements.

3. The augmented ultrasonic examination is abbreviated AUT.
4. See IWA-5215: A preservice system hydrostatic test is not required for Section XI.
5. ASME Code, Section III hydro is performed in lieu of Section XI system leakage test IWC-5221 and system hydrostatic test IWC-5222.

#### 4.0 CLASS 3 SYSTEMS AND COMPONENTS

##### 4.1 Purpose

The purpose of this section is to define a baseline inspection program for Class 3 systems and components to meet the intent of Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through Winter 1980 Addenda.

##### 4.2 Inspection Schedule

As much as practicable, Class 3 systems and components shall be examined prior to the cold hydro; items still outstanding shall be examined following the cold hydro but prior to commercial operation.

##### 4.3 Inspection Scope

Areas subject to preservice inspection are shown in the following tables by examination category.



# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWD-2500-1 Examination Categories

D-A, SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION								
Program Item	IWD-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
1	D1.10	Pressure Retaining Components <sup>1</sup>	IWA-5000/ IWD-5221 IWA-5000/ IWD-5223			N/A  N/A		N/A to PSI <sup>2</sup> .  N/A to PSI <sup>2,3</sup> .
2	D1.20	Integral Attachment Component Supports and Restraints <sup>4</sup>	IWD-2500-1			VT-3		
3	D1.30	Integral Attachment Mechanical and Hydraulic Snubbers <sup>4</sup>	IWD-2500-1			VT-3		
4	D1.40	Integral Attachment Spring Type Supports <sup>4</sup>	IWD-2500-1			VT-3		
5	D1.50	Integral Attachment Constant Load Type Supports <sup>4</sup>	IWD-2500-1			VT-3		

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Vogtle Electric Generating Plant Unit No. 2

Preservice Inspection

Table IWD-2500-1 Examination Categories

D-A, CONTINUED								
Program Item	IWD-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
6	D1.60	Integral Attachment Shock Absorbers <sup>4</sup>	IWD-2500-1			VT-3		

# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWD-2500-1 Examination Categories

D-B, SYSTEM IN SUPPORT OF EMERGENCY CORE COOLING, CONTAINMENT  
HEAT REMOVAL, ATMOSPHERE CLEANUP, AND REACTOR RHR

Program Item	IWD-2500-1 Item	Component Parts Examined	Examination Require- ments Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
7	D2.10	Pressure Retaining Components <sup>1</sup>	IWA-5000/ IWD-5221 IWA-5000/ IWD-5223			N/A N/A N/A		N/A to PSI <sup>2</sup> . N/A to PSI <sup>2,3</sup> .
8	D2.20	Integral Attachment Component Supports and Restrains <sup>4</sup>	IWD-2500-1			VT-3		
9	D2.30	Integral Attachment Mechanical and Hydraulic Snubbers <sup>4</sup>	IWD-2500-1			VT-3		
10	D2.40	Integral Attachment Spring Type Supports <sup>4</sup>	IWD-2500-1			VT-3		
11	D2.50	Integral Attachment Constant Load Type Supports <sup>4</sup>	IWD-2500-1			VT-3		

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWD-2500-1 Examination Categories

D-B, CONTINUED								
Program Item	IWD-2500-1 Item	Component Parts Examine <sup>1</sup>	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
12	D2.60	Integral Attachment Shock Absorbers <sup>4</sup>	IWD-2500-1			VT-3		

# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWD-2500-1 Examination Categories

D-C, SYSTEM IN SUPPORT OF RHR FROM SPENT FUEL STORAGE POOL								
Program Item	IWD-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
13	D3.10	Pressure Retaining Components <sup>1</sup>	IWA-5000/ IWD-5221 IWA-5000/ IWD-5223			N/A  N/A		N/A to PSI <sup>2</sup> .  N/A to PSI <sup>2,3</sup> .
14	D3.20	Integral Attachment Component Supports and Restraints <sup>4</sup>	IWD-2500-1			VT-3		
15	D3.30	Integral Attachment Mechanical and Hydraulic Snubbers <sup>4</sup>	IWD-2500-1			VT-3		
16	D3.40	Integral Attachment Spring Type Supports <sup>4</sup>	IWD-2500-1			VT-3		
17	D3.50	Integral Attachment Constant Load Type Supports <sup>4</sup>	IWD-2500-1			VT-3		

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWD-2500-1 Examination Categories

D-C, CONTINUED								
Program Item	IWD-2500-1 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
18	D3.60	Integral Attachment Shock Absorbers <sup>4</sup>	IWD-2500-1			VT-3		



NOTES - IWD TABLE

1. The system boundary extends up to and includes the first normally closed valve or valve capable of automatic closure as required to perform the safety-related system function.
2. ASME Code, Section III hydro is performed in lieu of Section XI system leakage test IWD-5221 and system hydrostatic test IWD-5223.
3. See IWA-5215: A preservice system hydrostatic test is not required for ASME Code, Section XI.
4. In the case of multiple components within a system of similar design, function, and service, the integral attachment of only one of the multiple components shall be examined. The integral attachments selected for examination shall correspond to those component supports selected by IWF-2510(b).

## 5.0 CLASS 1, 2, AND 3 COMPONENT SUPPORTS

### 5.1 Purpose

The purpose of this section is to define a baseline inspection program for Class 1, 2, and 3 component supports to meet the intent of Section XI of the ASME Boiler and Pressure Vessel Code, 1980 Edition through Winter 1980 Addenda.

### 5.2 Inspection Schedule

As much as practicable, Class 1, 2, and 3 component supports shall be examined following the initiation of the hot functional tests. The examination of snubbers may require earlier schedule as specified by the NRC or the plant Technical Specifications.

### 5.3 Inspection Scope

Areas subject to preservice inspection are shown in the following tables by examination category.

# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWF-2500 Examination Categories

### F-A, PLATE AND SHELL TYPE SUPPORTS

Program Item	IWF-2500 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
1	F1.10	Mechanical Connections to Pressure Retaining Components and Building Structure	IWF-1300-1			VT-3		
2	F1.20	Weld Connections to Building Structure	IWF-1300-1			VT-3		
3	F1.30	Weld and Mechanical Connections at Intermediate Joints in Multi-connected Integral and Nonintegral Supports	IWF-1300-1			VT-3		
4	F1.40	Component Displacement Settings and Stops, Misalignment of Supports, Assembly of Support Items	IWF-1300-1			VT-3		

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWF-2500 Examination Categories

F-B, LINEAR TYPE SUPPORTS								
Program Item	IWF-2500 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
5-3	5	F2.10	Mechanical Connections to Pressure Retaining Components and Building Structure			VT-3		
	6	F2.20	Weld Connections to Building Structure			VT-3		
	7	F2.30	Weld and Mechanical Connections at Intermediate Joints in Multiconnected Integral and Nonintegral Supports			VT-3		
	8	F2.40	Component Displacement Settings of Guides and Stops, Misalignment of Supports, Assembly of Support Items			VT-3		

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWF-2500 Examination Categories

F-C, COMPONENT STANDARD SUPPORTS								
Program Item	IWF-2500 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
9	F3.10	Mechanical Connections to Pressure Retaining Components and Building Structure	IWF-1300-1			VT-3		
10	F3.20	Weld Connections to Building Structure	IWF-1300-1			VT-3		
11	F3.30	Weld and Mechanical Connections at Intermediate Joints in Multiconnected Integral and Nonintegral Supports	IWF-1300-1			VT-3		
12	F3.40	Component Displacement Settings of Guides and Stops, Misalignment of Supports, Assembly of Support Items	IWF-1300-1			VT-3		

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# Vogtle Electric Generating Plant Unit No. 2

## Preservice Inspection

Table IWF-2500 Examination Categories

F-C, CONTINUED								
Program Item	IWF-2500 Item	Component Parts Examined	Examination Requirements Figure Number	Examination Method			Section XI Code Relief Request	Comments
				Volumetric	Surface	Visual		
13	F3.50	Spring Type Supports, Constant Load Type Supports, Shock Absorbers, Hydraulic and Mechanical Type Snubbers	IWF-1300-1			VT-4		

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## 6.0 ISI PIPING CLASSIFICATION DRAWINGS

### 6.1 Purpose

The purpose of this section is to define the scope of preservice examinations at VEGP-Unit 2. The following drawings define the appropriate piping and component classifications for examination.

### 6.2 Inspection Schedule

The schedule of inspections are as stated in sections 1.0 through 5.0 of this document.

### 6.3 Inspection Scope

The scope of examination is shown on the ISI classification drawings with the corresponding classification legend.

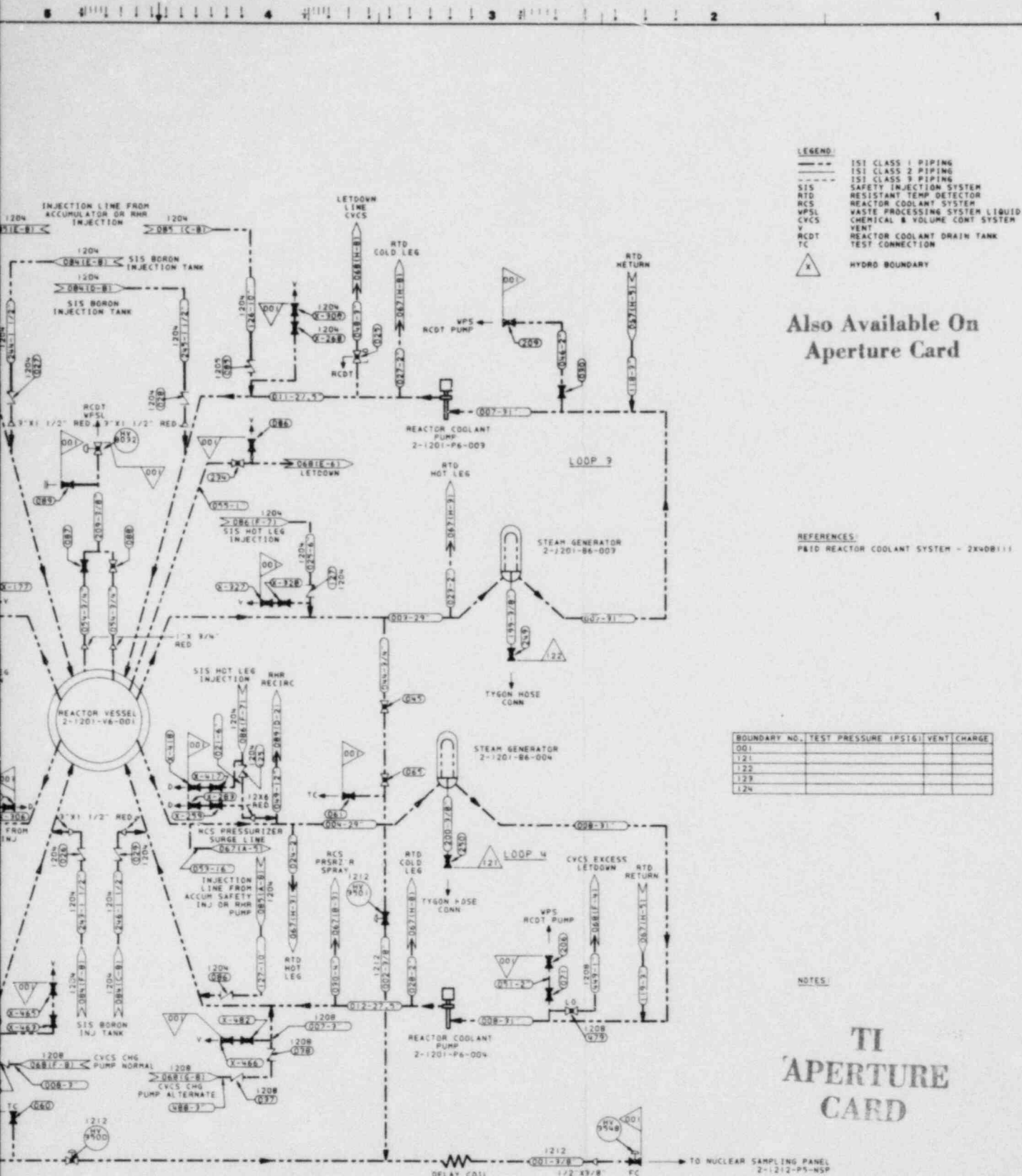
These drawings reference the piping and instrumentation diagrams (P&ID's) for each system as follows:

<u>System</u>	<u>ISI Classification Drawings ISI-D-</u>	<u>Piping and Instrumentation Diagrams 2X4DB-</u>
Reactor Coolant	066 067	111 111, 112, 113, 140
Chemical and Volume Control	068 069 070 071 072 073	112, 114 115, 117, 140 116-1 116-2 118 115, 116-1, 148
Nuclear Service Cooling Water	074 075 076 077 078	133-1 133-2 134 135-1, 170 135-2
Safety-Related (ESF) Chillers	079 080 081	233 234 221
Component Cooling Water	082 083	136 137

<u>System</u>	ISI Classification Drawings <u>ISI-D-</u>	Piping and Instrumentation Diagrams <u>2X4DB-</u>
Safety Injection	084 085 086	119 120 121
Residual Heat Removal	087	122
Containment Spray	088	131
Spent Fuel Cooling and Purification	089	130
Main Steam	093 094 095	159-1 159-2 159-3
Auxiliary Feedwater and Condensate Storage	096 097 098	161-1 161-2 159-2, 161-3
Condensate and Feedwater	099	168-3
Penetrations	100	See note 1.

1. This drawing combines various P&ID's to detail all penetrations not otherwise shown.

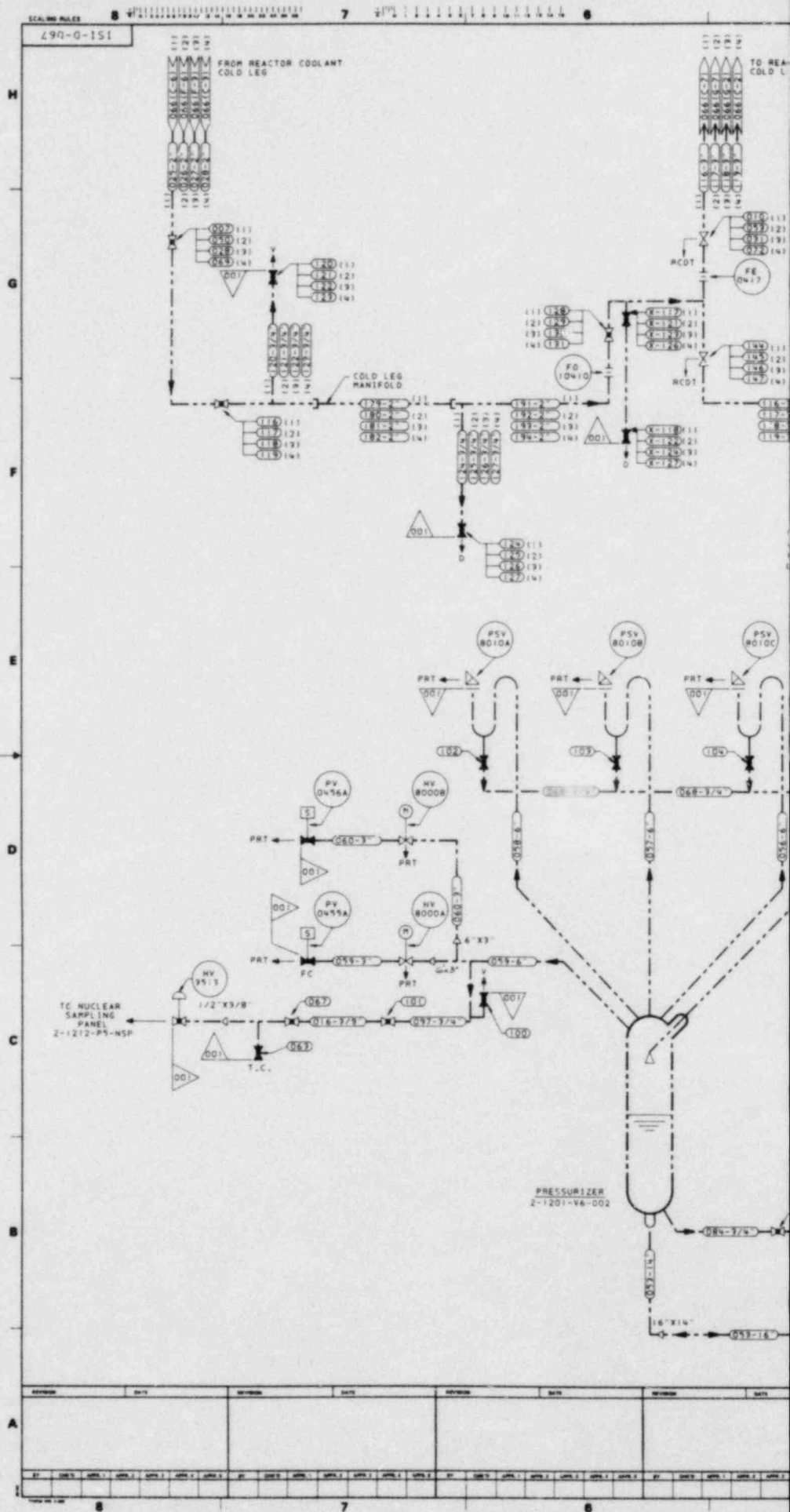




TI  
APERTURE  
CARD

Southern Company Services, Inc.	
GEORGIA POWER COMPANY	
VOGTE ELEC GENERATING PLANT	
UNIT 2	
INSERVICE INSPECTION	
PIPING CLASSIFICATION	
REACTOR COOLANT-SYSTEM 1201	
REVISION	BY
NO	SCALE
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8405090066



FROM COOLANT

FROM REACTOR COOLANT  
HOT LEG

**LEGEND:**  
 --- ISI CLASS 1 PIPING  
 --- ISI CLASS 2 PIPING  
 --- ISI CLASS 3 PIPING  
 RCDT REACTOR COOLANT DRAIN TANK  
 PRT PRESSURIZER RELIEF TANK  
 RCS REACTOR COOLANT SYSTEM  
 CVCS CHEMICAL & VOLUME CONT SYSTEM  
 V VENT  
 D DRAIN  
 SS SAMPLING SYSTEM  
 △ HYDRO BOUNDARY

Also Available On  
Aperture Card

# TI APERTURE CARD

**REFERENCES:**  
 P&ID REACTOR COOLANT SYSTEM 2X400111  
 2X400112  
 2X400113  
 2X400110

BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
001			
096			

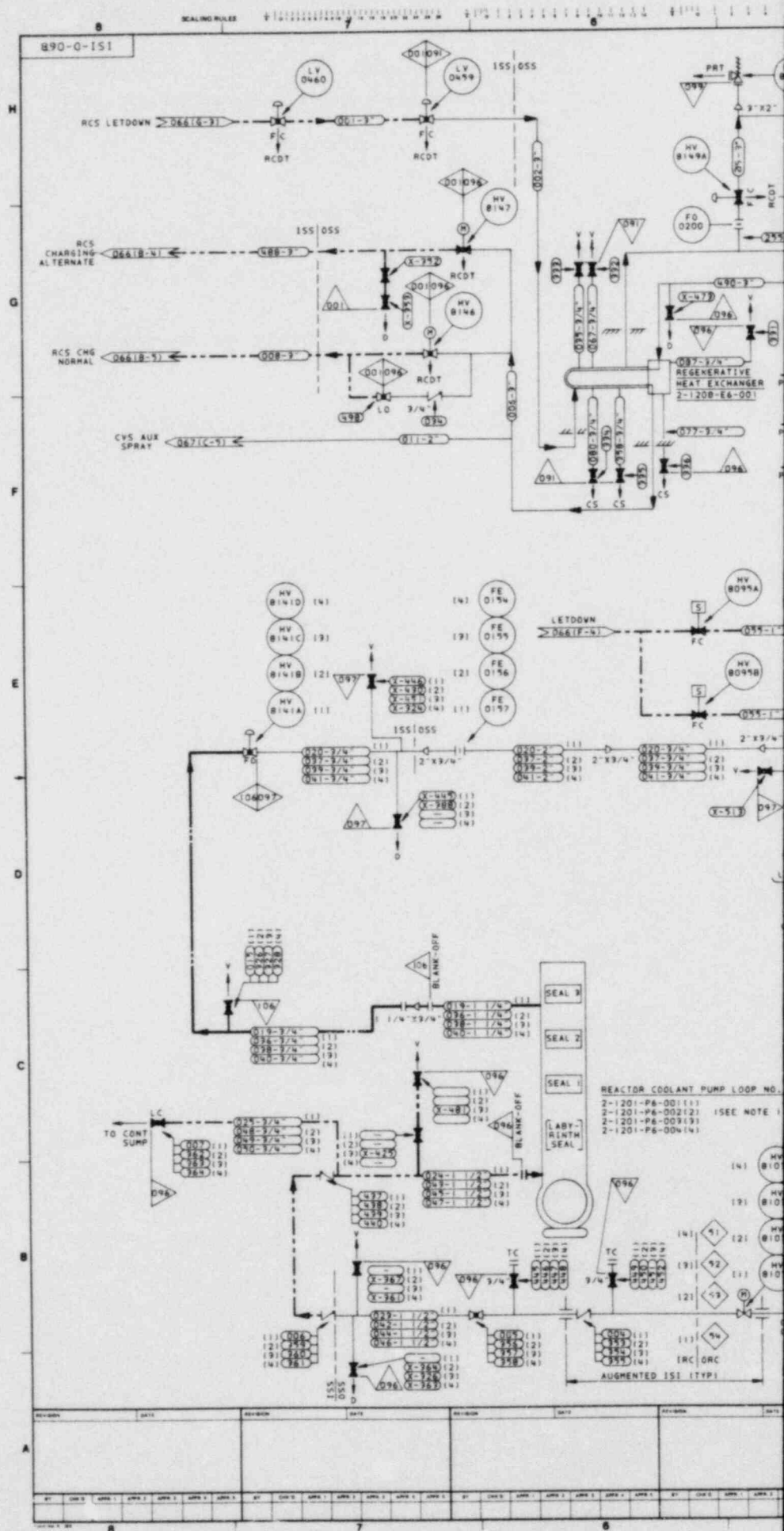
**NOTES:**  
 1. NUMBERS IN PARENTHESIS BEHIND VALVE  
 AND LINE NUMBERS DESIGNATE LOOP  
 NUMBER.

Southern Company Services, Inc.			
FOR			
GEORGIA POWER COMPANY			
VOGTLE ELEC GENERATING PLANT			
UNIT 2			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
REACTOR COOLANT-SYSTEM 1201			
PREPARED BY	DATE	DESIGNED BY	DATE
SCALE	1:1	SCALE	1:1
151-D-067 D			

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-2

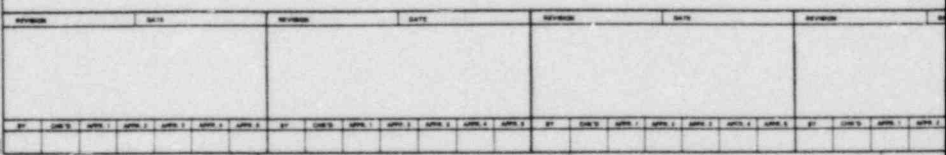








1



# Also Available On Aperture Card

## LEGEND:

- ISI CLASS 2 PIPING
- - - - - NON-ISI CLASS
- CVCS - CHEM AND VOLUME CONTROL SYSTEM
- RHR - RESIDUAL HEAT REMOVAL SYSTEM
- SS - SAMPLING SYSTEM
- ACCWS - AUX COMPONENT COOLING WATER SYSTEM
- WHT - WASTE HOLD-UP TANK
- RHT - REACTOR HOLD-UP TANK
- D - DRAIN
- X - HYDRO BOUNDARY
- V - VENT

## REFERENCES:

- 1. P&ID DIAGRAM CHEMICAL AND VOLUME CONTROL SYSTEM NO. 1208
- 2X408115
- 2X408117
- 2X408110

BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
081			
088			
099			
102			

## NOTES:

MTI  
APERTURE  
CARD

Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOGTLE ELEC GENERATING PLANT			
UNIT 2			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
CHEM & VOL CONT-SYS NO. 1208			
REVISION	CT	DATE	BY
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REFERENCE DRAWINGS:  
1. PAID CHEM & VOL CONT SYS  
NO. 1208 28408116-1

## SYSTEM HYDROSTATIC TEST

## NOTES

Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOSTLE ELECTRIC GEN PLANT			
UNIT NO.2			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
CHEM & VOL CONT-SYS NO.1208			
CONTRACT NO.	PROJECT NO.	ORDER NO.	
1000000000	1000000000	1000000000	

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-5



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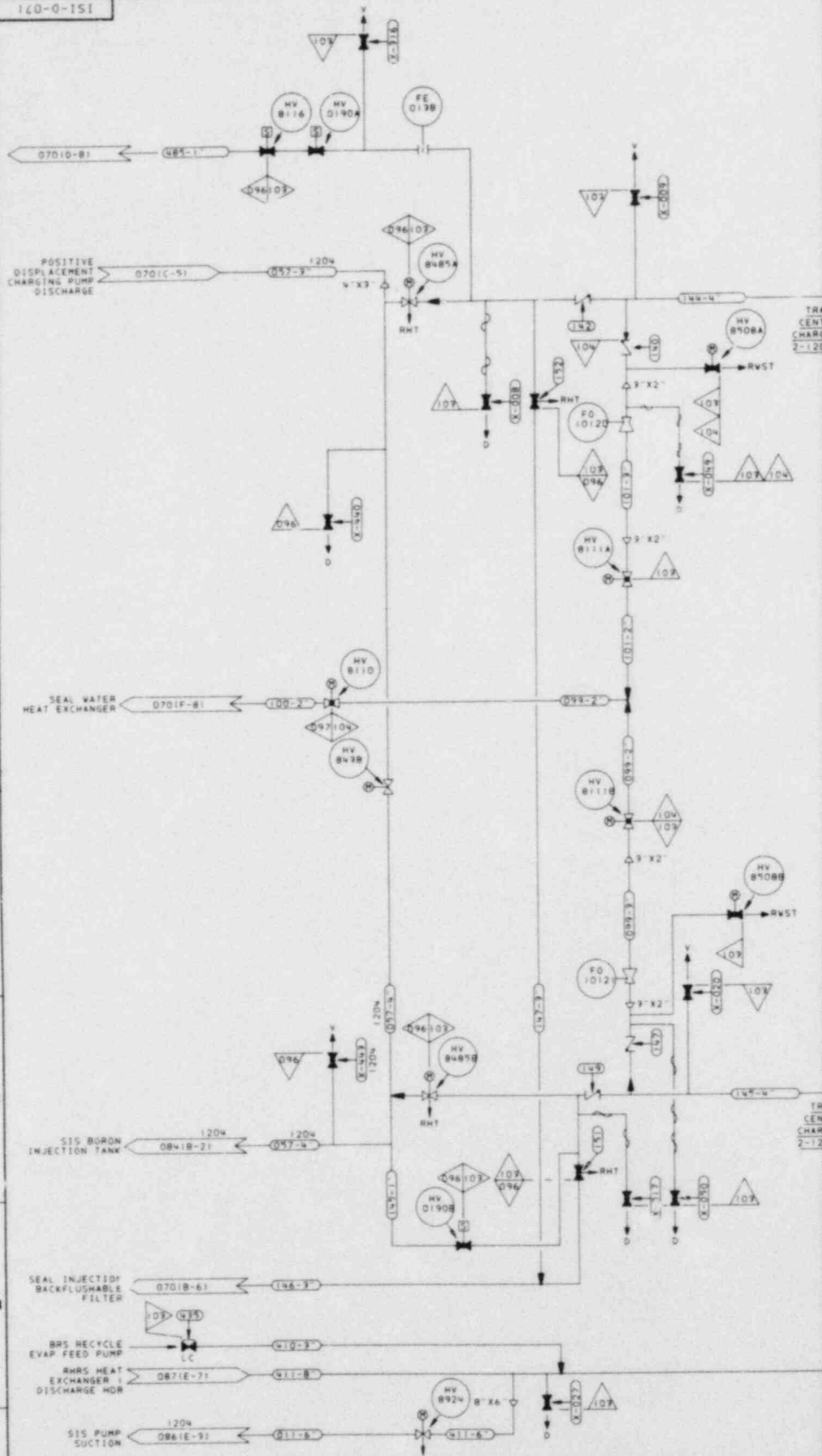
E

D

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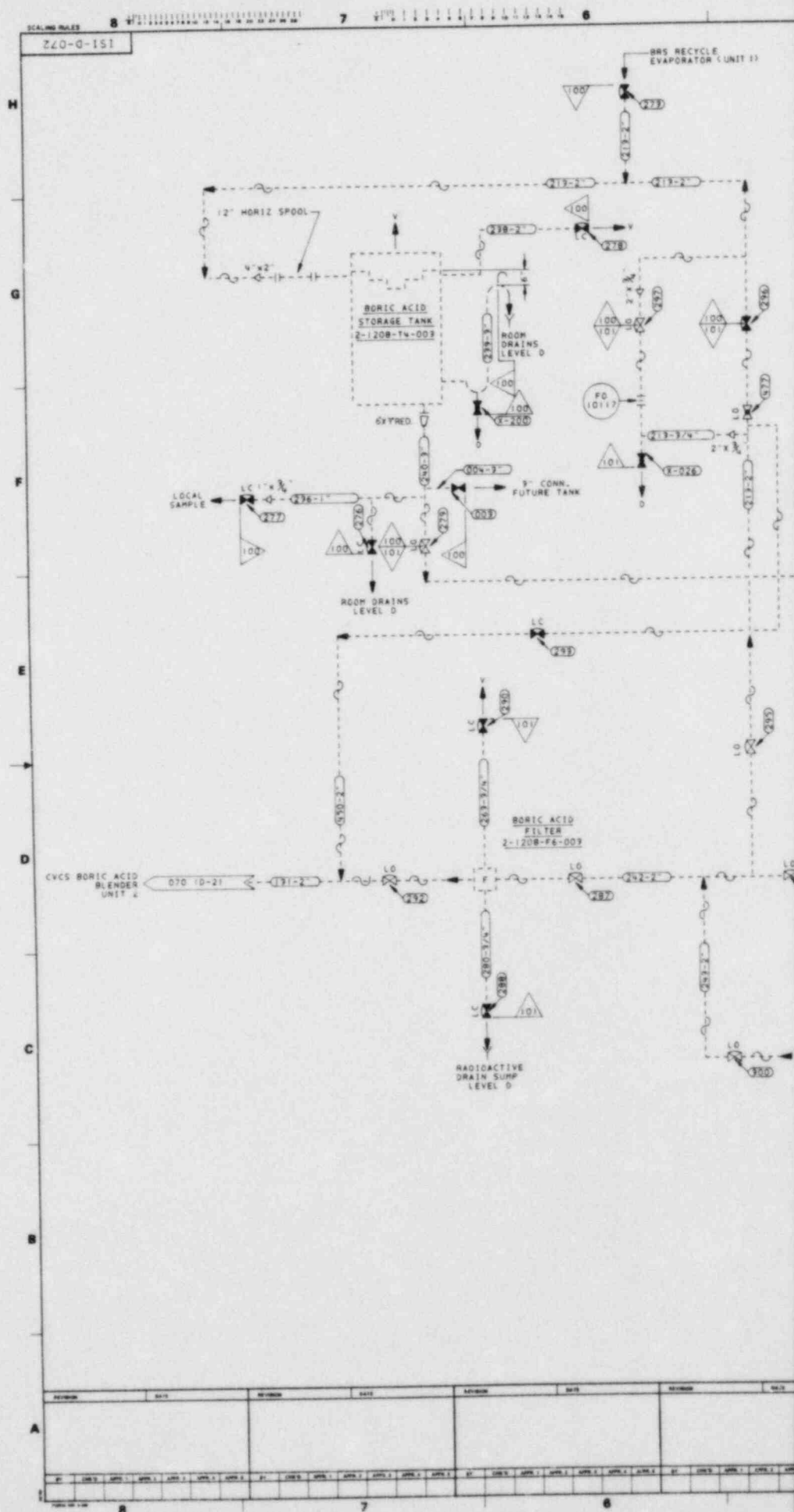
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REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
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5	10/1/78	6	10/1/78	7	10/1/78	8	10/1/78
9	10/1/78	10	10/1/78	11	10/1/78	12	10/1/78
13	10/1/78	14	10/1/78	15	10/1/78	16	10/1/78
17	10/1/78	18	10/1/78	19	10/1/78	20	10/1/78
21	10/1/78	22	10/1/78	23	10/1/78	24	10/1/78
25	10/1/78	26	10/1/78	27	10/1/78	28	10/1/78
29	10/1/78	30	10/1/78	31	10/1/78	32	10/1/78

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Also Available On  
Aperture Card

**LEGEND**  
 --- ISI CLASS 9 PIPING.  
 BRS BORDEN RECYCLE SYSTEM.  
 CVCS CHEMICAL AND VOLUME CONTROL SYSTEM  
 D DRAIN  
 V VENT  
 △ HYDRO BOUNDARY  
 — ELECTRICAL HEAT TRACING

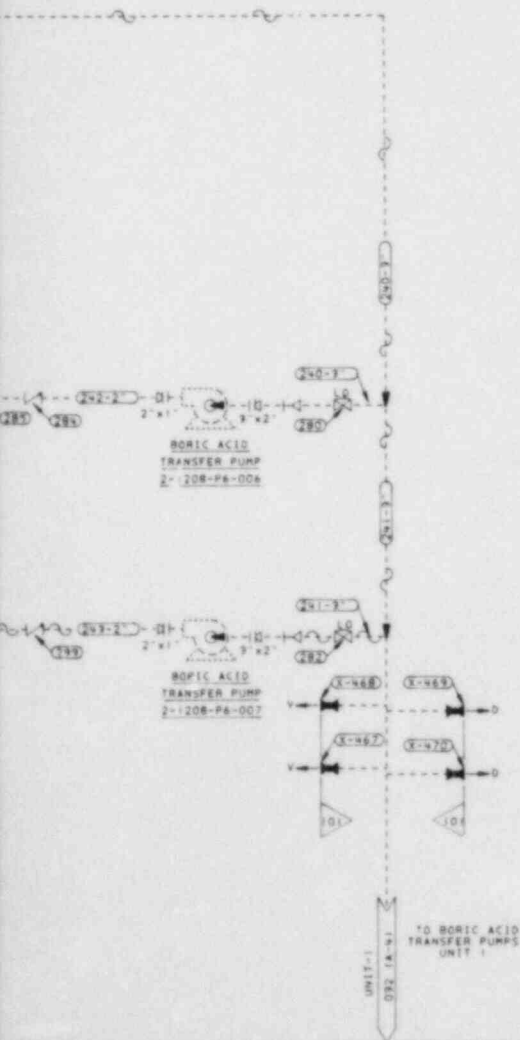
TI  
APERTURE  
CARD

REFERENCE DRAWINGS  
 1. P&ID DIAGRAM CHEMICAL & VOLUME  
 CONTROL SYSTEM NO. 1208-2X408/118

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS. (PSIG)	VENT	CHARGE
100			
101			

NOTES:



Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOGTLE ELEC. GENERATING PLANT			
UNIT 2			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
CHEM & VOL CONT-SYS NO. 1208			
DESIGNED	C.A.T.	SPRANG	CHECKED
SCALE	1/2"	1/4"	1/8"
NO.	151-D-072	0	

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-7

SCALING RULES

620-0-151

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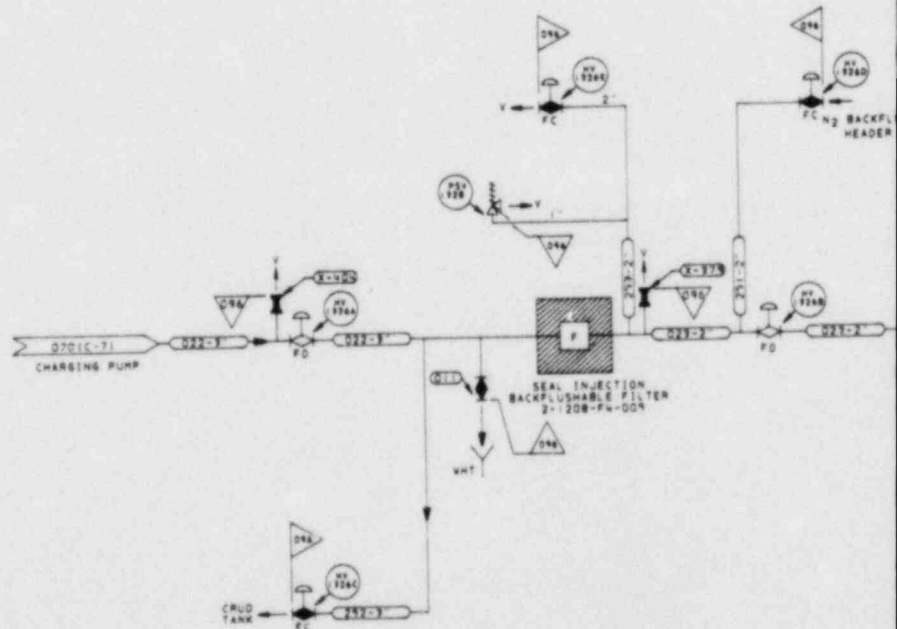
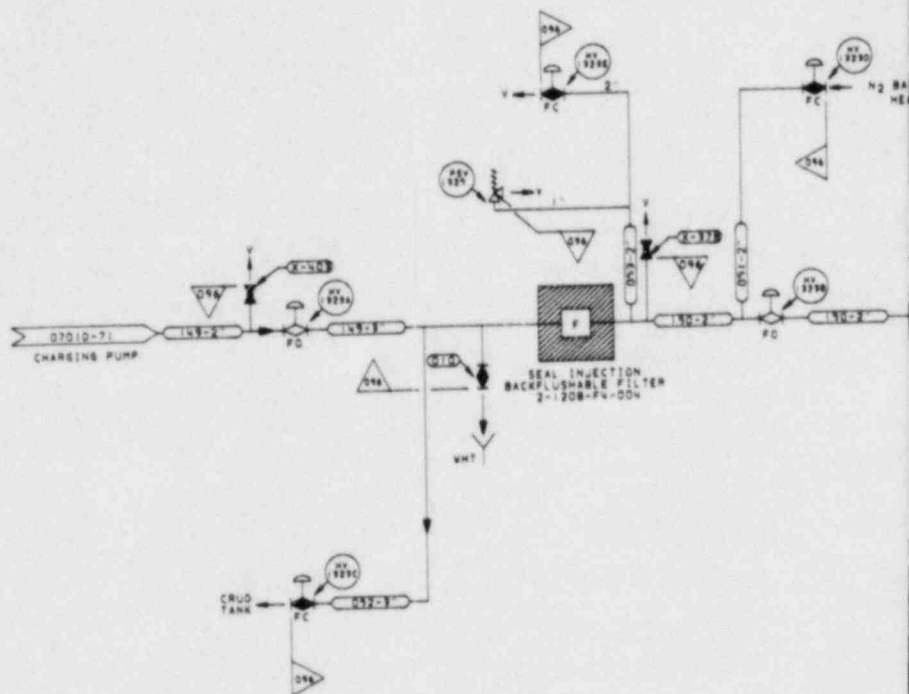
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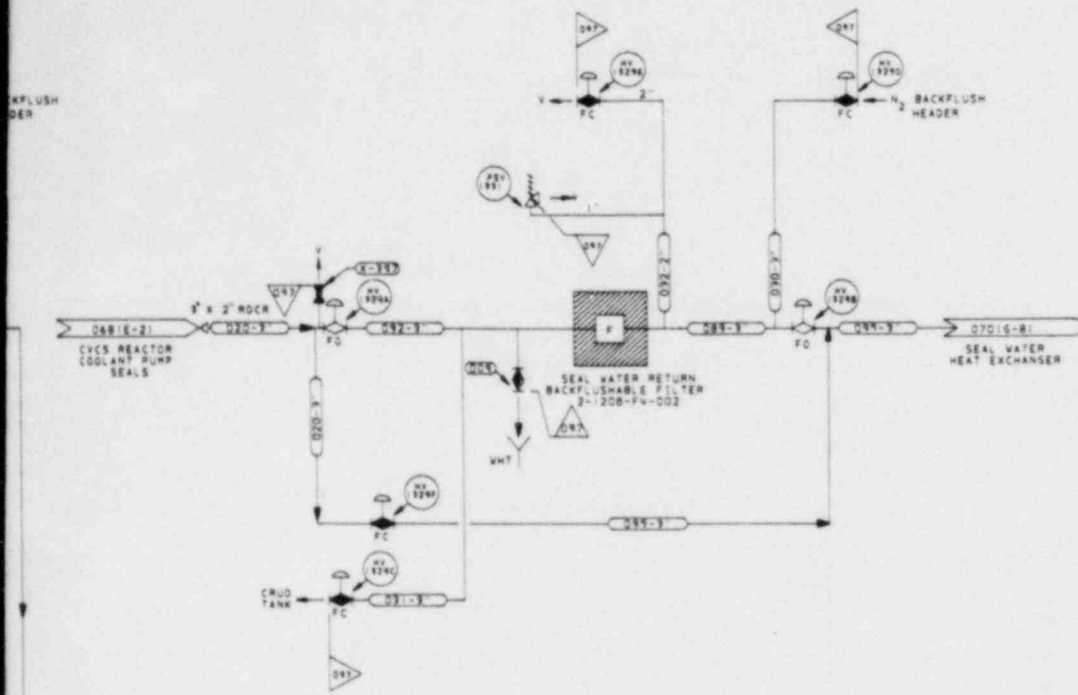
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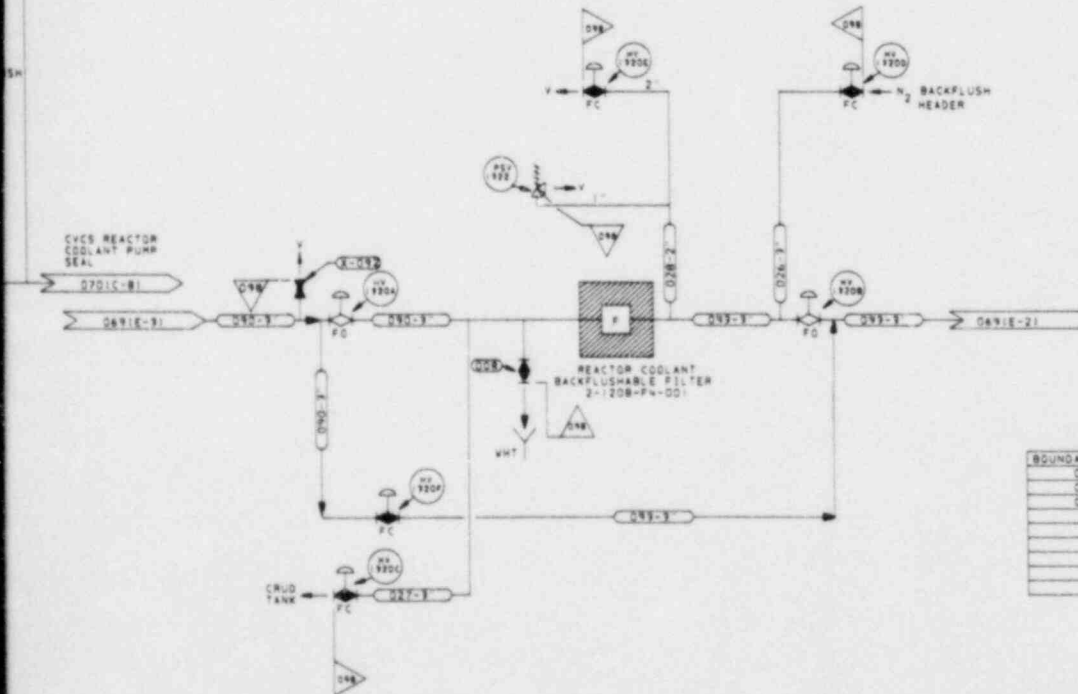
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Also Available On  
Aperture Card

# TI APERTURE CARD



**LEGEND:**  
 [S] CLASS 2 PIPING  
 V - VENT  
 WHT - WASTE HOLD-UP TANK  
 X - HYDRO BOUNDARY



**REFERENCES:**  
 PB10 BLACKFLUSHABLE FILTER SYSTEM  
 NO. 1224 2X400148.115.116-1

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS (PSIG)	VENT	CHARGE
096			
097			
098			

NOTES:

Southern Company Services, Inc.											
GEORGIA POWER COMPANY											
VOTLE ELEC GENERATING PLANT											
UNIT 2											
INSERVICE INSPECTION PIPING											
CLASSIFICATION											
CHEMICAL & VOL. CONT.-											
SYS NO. 120B											
REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
ISSUED FOR PSI PROGRAM.						DATE 12-22-84					
SCALE						SCALE					

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N2O-G-151

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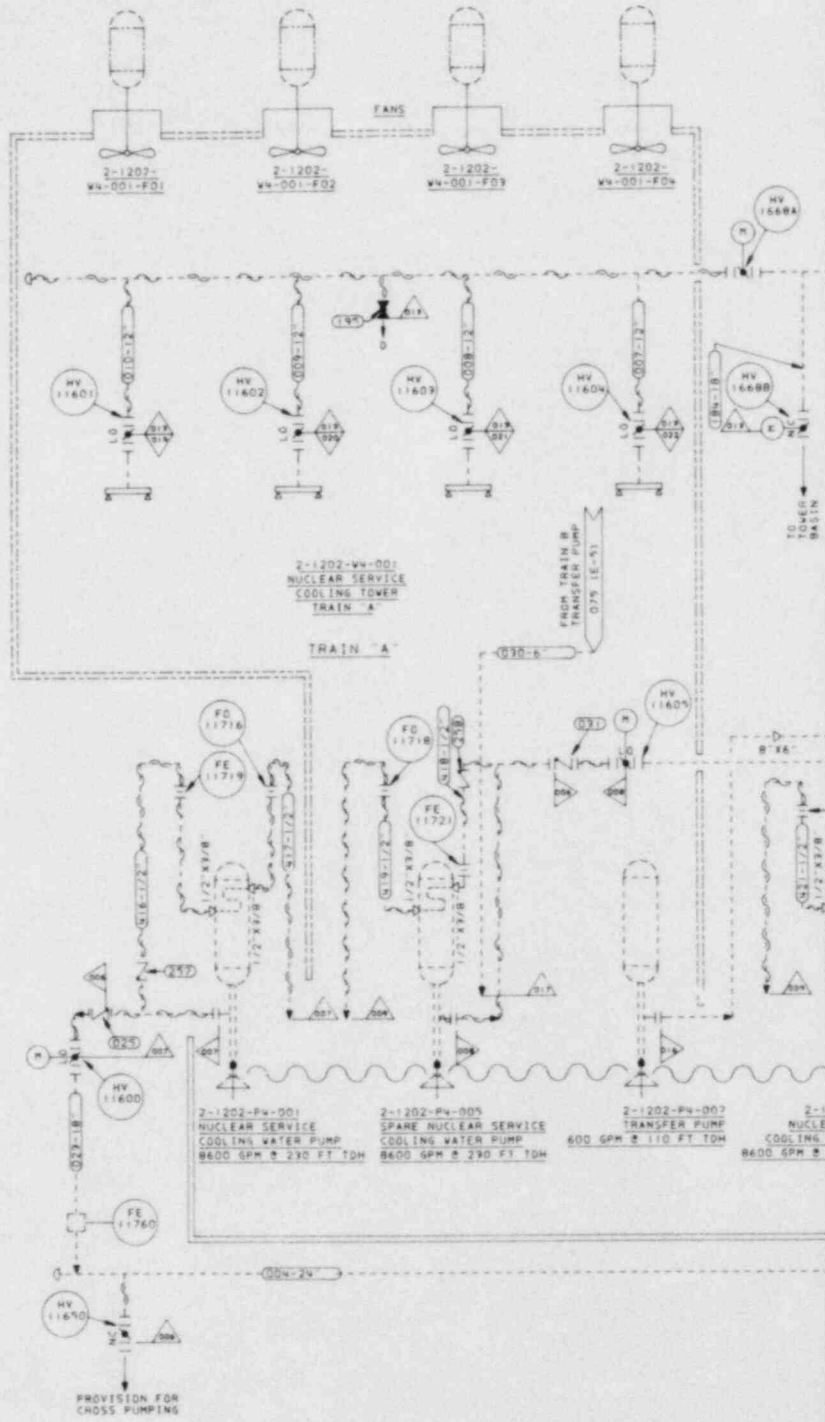
E

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REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
BY	DATE	BY	DATE	BY	DATE	BY	DATE

Also Available On  
Aperture Card

LEGEND  
 --- 151 CLASS 2 PIPING  
 --- 151 CLASS 3 PIPING  
 --- NON-151 CLASS  
 V VENT  
 D DRAIN  
 CCOT COMPONENT COOLING WATER DRAIN TANK  
 CCW COMPONENT COOLING WATER  
 ESF ENGINEERED SAFETY FEATURE  
 HX HYDRO BOUNDARY  
 EHT ELECTRICAL HEAT TRACING

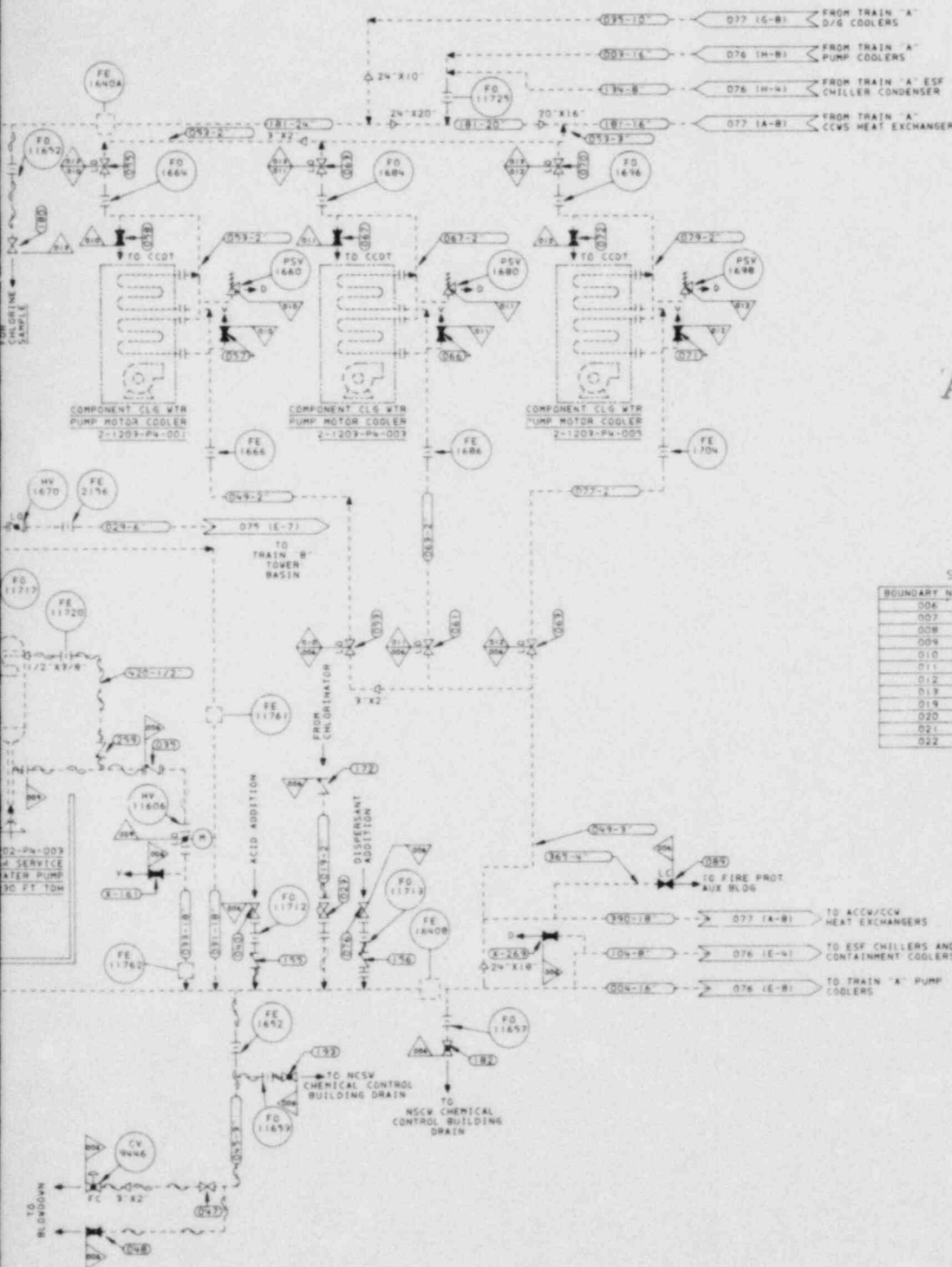
REFERENCES  
 PAID NUCLEAR SERVICE COOLING WATER SYSTEM - 2XND0132-1.

# TI APERTURE CARD

## SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
006			
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008			
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021			
022			

## NOTES

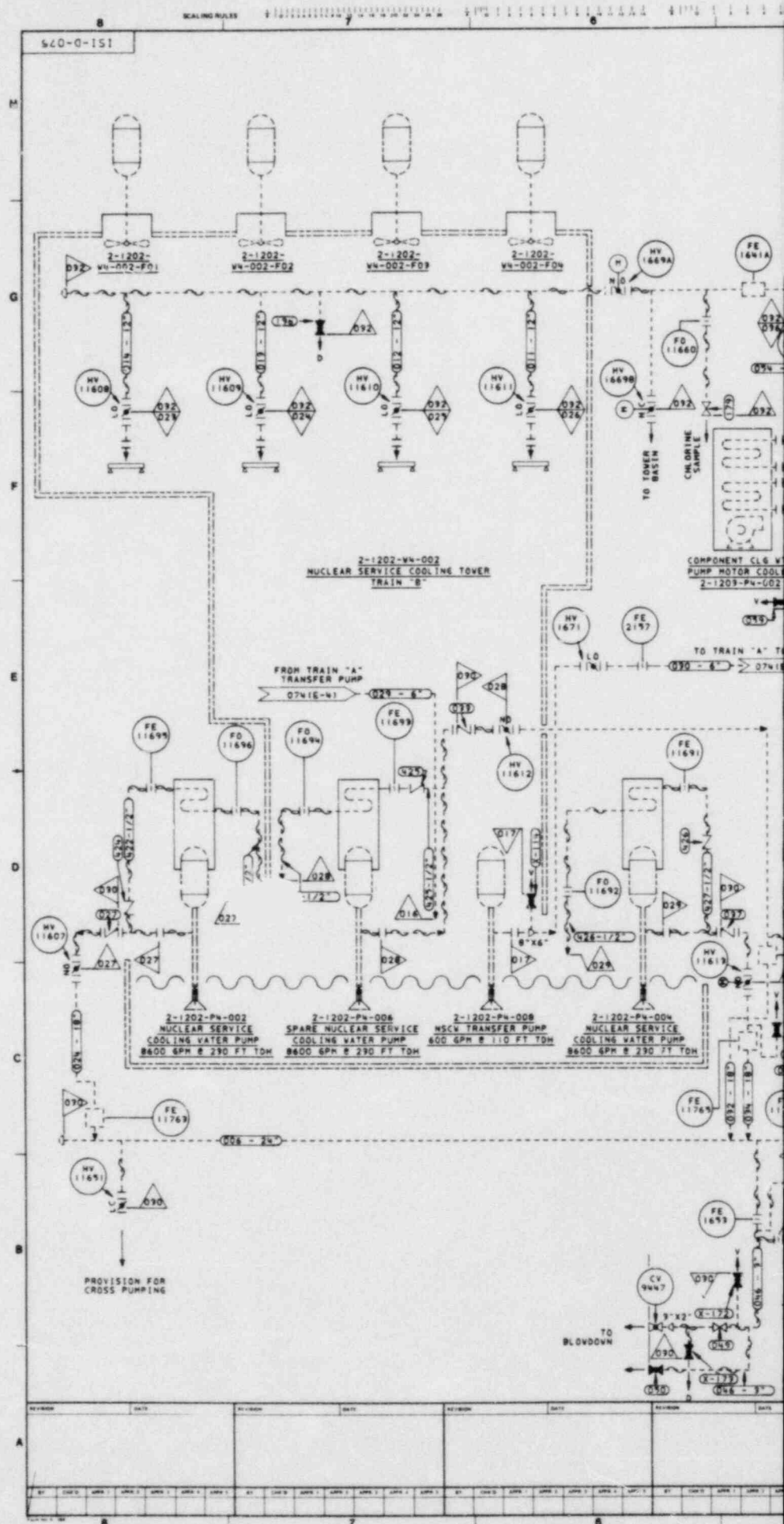


Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOTLE ELECTRIC GENERATING PLANT UNIT - 2			
INSERVICE INSPECTION PIPING CLASSIFICATION			
NUCLEAR SERVICE COOLING WATER SYSTEM - 1202			
REVISION	BY	DATE	REVISION
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REVISION	BY	DATE	REVISION
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


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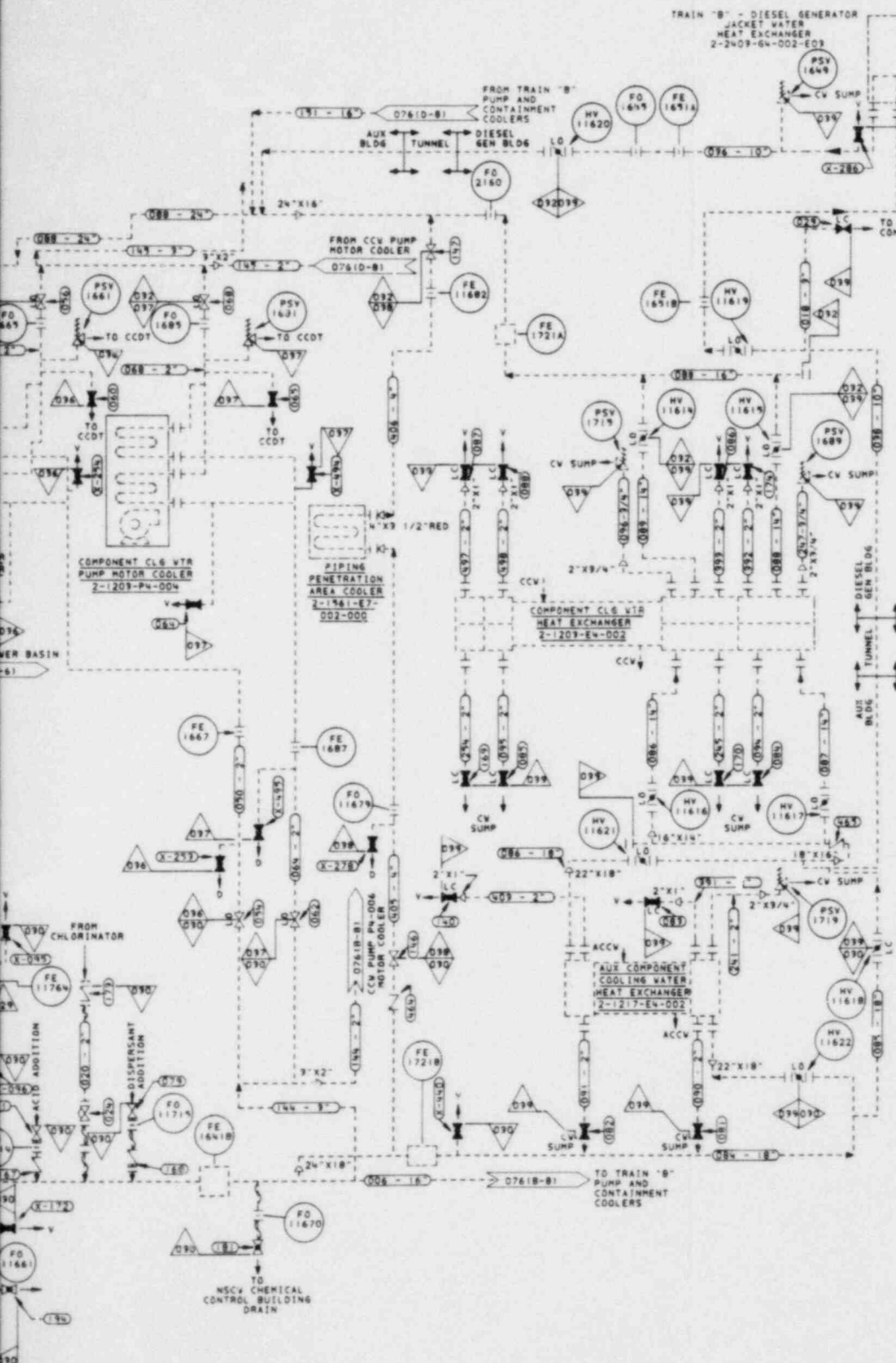


TI  
APERTURE  
CARD





	151 CLASS 2 PIPING
	151 CLASS 3 PIPING
	NON-151 CLASS
	VENT
	DRAIN
	CLEAN WATER
	COMP COOLING WATER DRAIN TANK
	HYDRO BOUNDARY
	ELECTRODUAL HEAT TRACING



REFERENCES:  
PBID NUCLEAR SERVICE COOLING WATER  
SYSTEM - - 2X408199-2

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS (PSIG)	VENT	CHARGE
016			
017			
023			
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039			

NOTES

AOS-19

Southern Company Services, Inc.

GEORGIA POWER COMPANY

VOGTLE ELEC. GENERATING PLANT  
UNIT 2  
INSERVICE INSPECTION  
PIPING CLASSIFICATION  
NUCLEAR SERVICE  
COOLING WATER - SYSTEM 1202

ROUTING WATER - DISTRICT 1202  
DISTRICT 1202  
ET 1202  
1202

1	NAME	ADDRESS	TELEPHONE	DATE

MOHE	ISI-D-075	Q
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00066

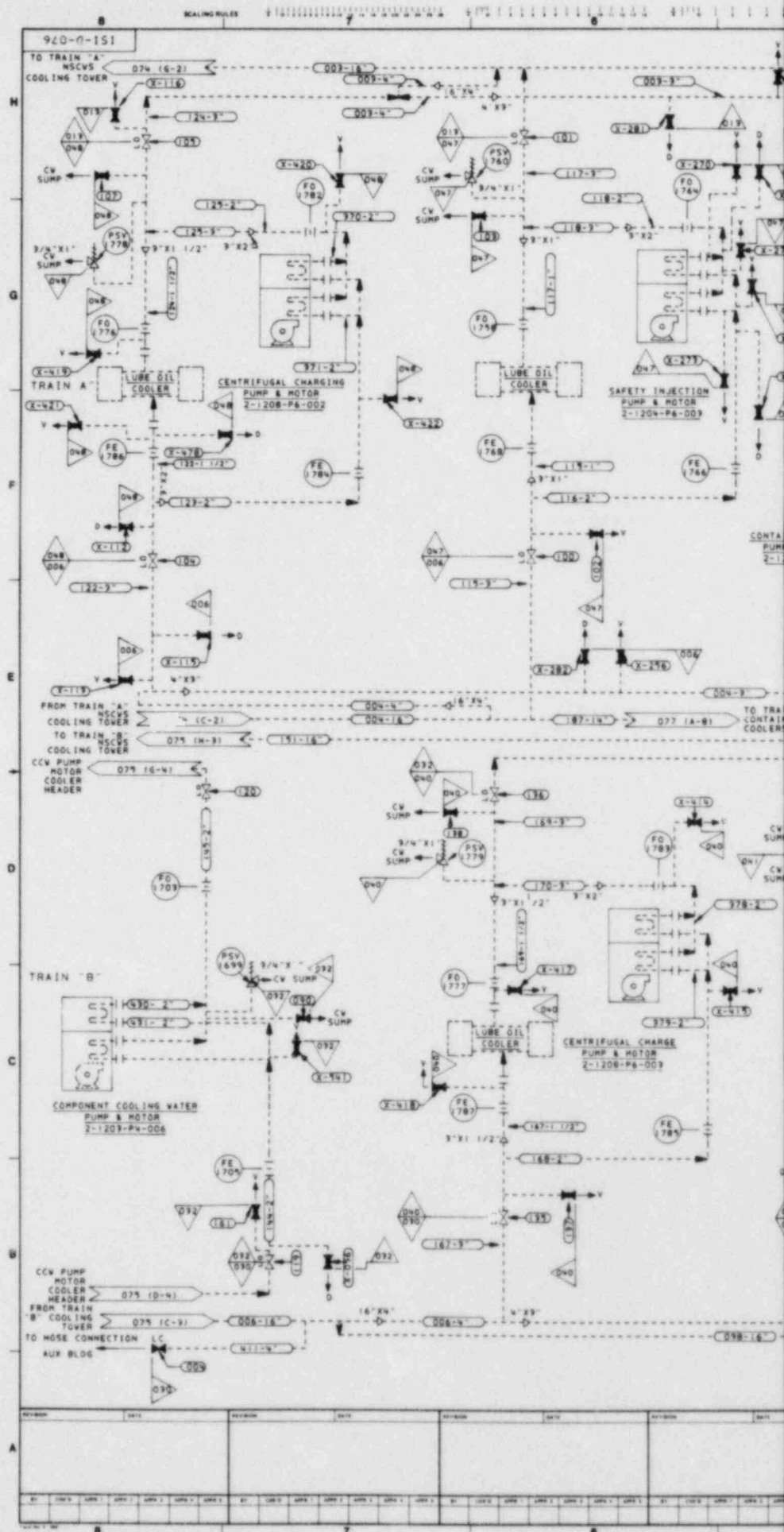
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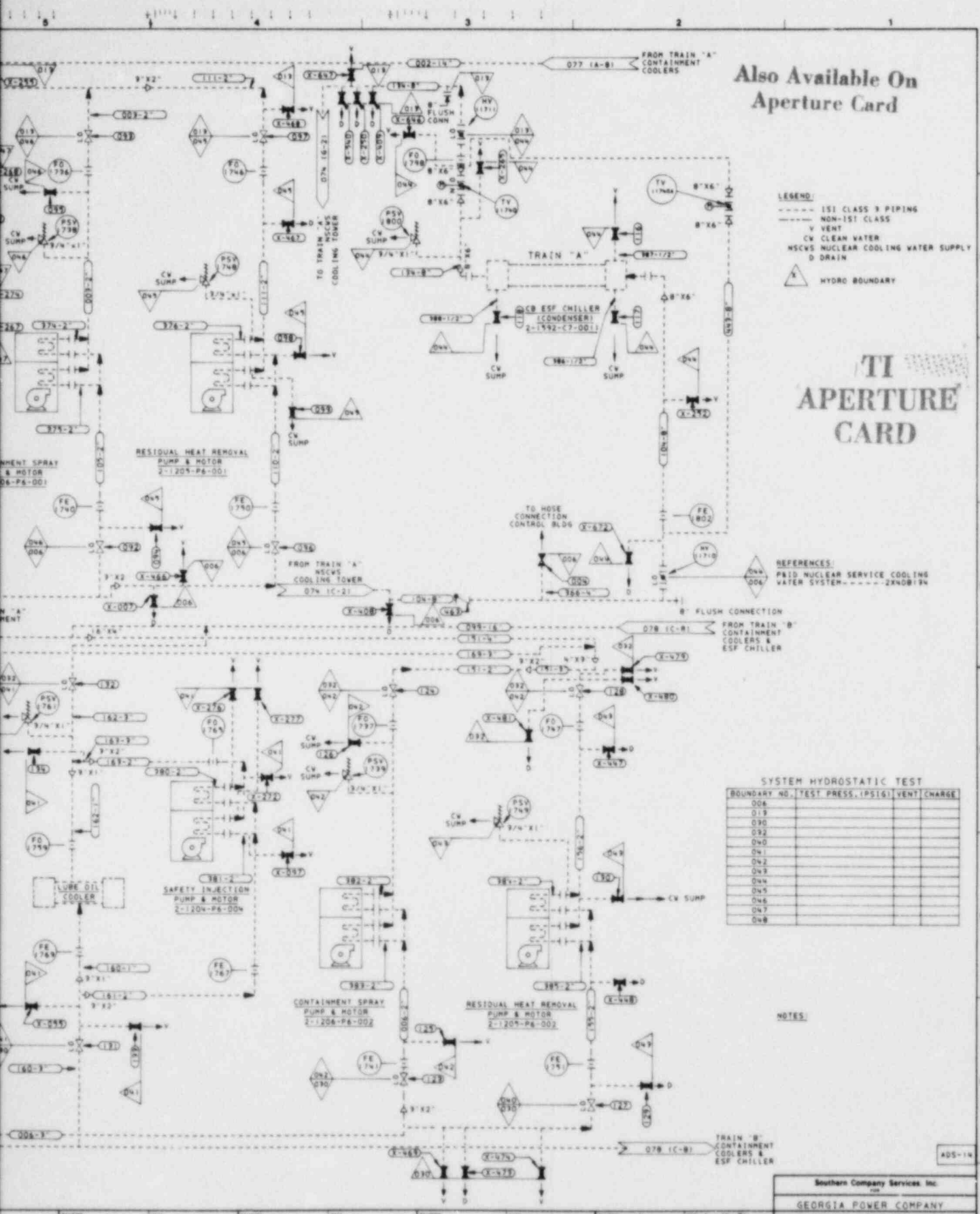
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ISSUED FOR PSI PROGRAM

8405090066

—cd





Also Available On  
Aperture Card

- LEGEND:
- 151 CLASS 3 PIPING
  - NON-151 CLASS
  - V VENT
  - CV CLEAN WATER
  - NCSWS NUCLEAR COOLING WATER SUPPLY
  - D DRAIN
  - X HYDRO BOUNDARY

# TI APERTURE CARD

REFERENCES:  
PSID NUCLEAR SERVICE COOLING  
WATER SYSTEM - 2XND019N

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS. (PSIG)	VENT CHARGE
006		
019		
030		
032		
040		
041		
042		
043		
044		
045		
046		
047		
048		

NOTES:

Southern Company Services, Inc.  
1974

GEORGIA POWER COMPANY

VOGTLE ELEC GENERATING PLANT  
UNIT 2

ISSUED FOR PSI PROGRAM.

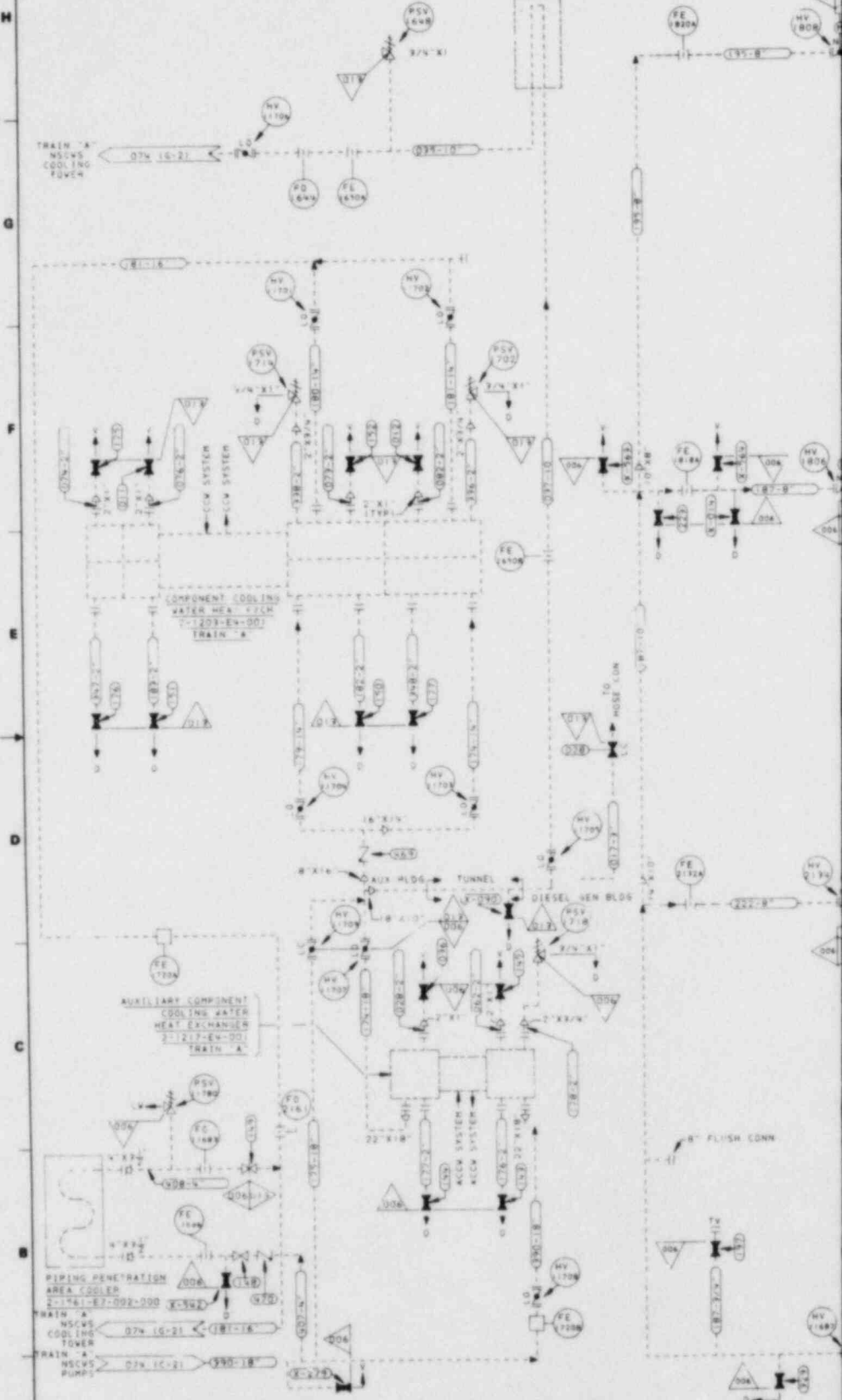
INSERVICE INSPECTION  
PIPING CLASSIFICATION  
NUCLEAR SERVICE COOLING  
WATER SYSTEM - 1202

REVISION	DATE	BY	CHKD	APP'D
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8405090066 -11

151-0-151

TRAIN 'A' - DIESEL GENERATOR  
JACKET WATER  
HEAT EXCHANGER  
2-2403-64-001 E09



REVISION	DATE	REVISION	DATE	REVISION	DATE
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298	10/1/78	299	10/1/78	300	10/1/78

Also Available On  
Aperture Card

LEGEND

- 1ST CLASS 2 PIPING
- 1ST CLASS 3 PIPING
- NON-1ST CLASS
- CS-CONTAINMENT SUMP
- D-DRAIN
- V-VENT
- NSCVS-NUCLEAR SERVICE COOLING WATER SYSTEM
- H-MOTOR OPERATED
- T.C. TEST CONNECTION
- HYDRO BOUNDARY
- CONTAINMENT PENETRATION

REFERENCES

P & I D NUCLEAR SERVICE COOLING WATER SYSTEM - 2-1501-A7-001-000

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESSURE (PSI)	VENT	CHARGE
006			
019			
014			
015			
018			

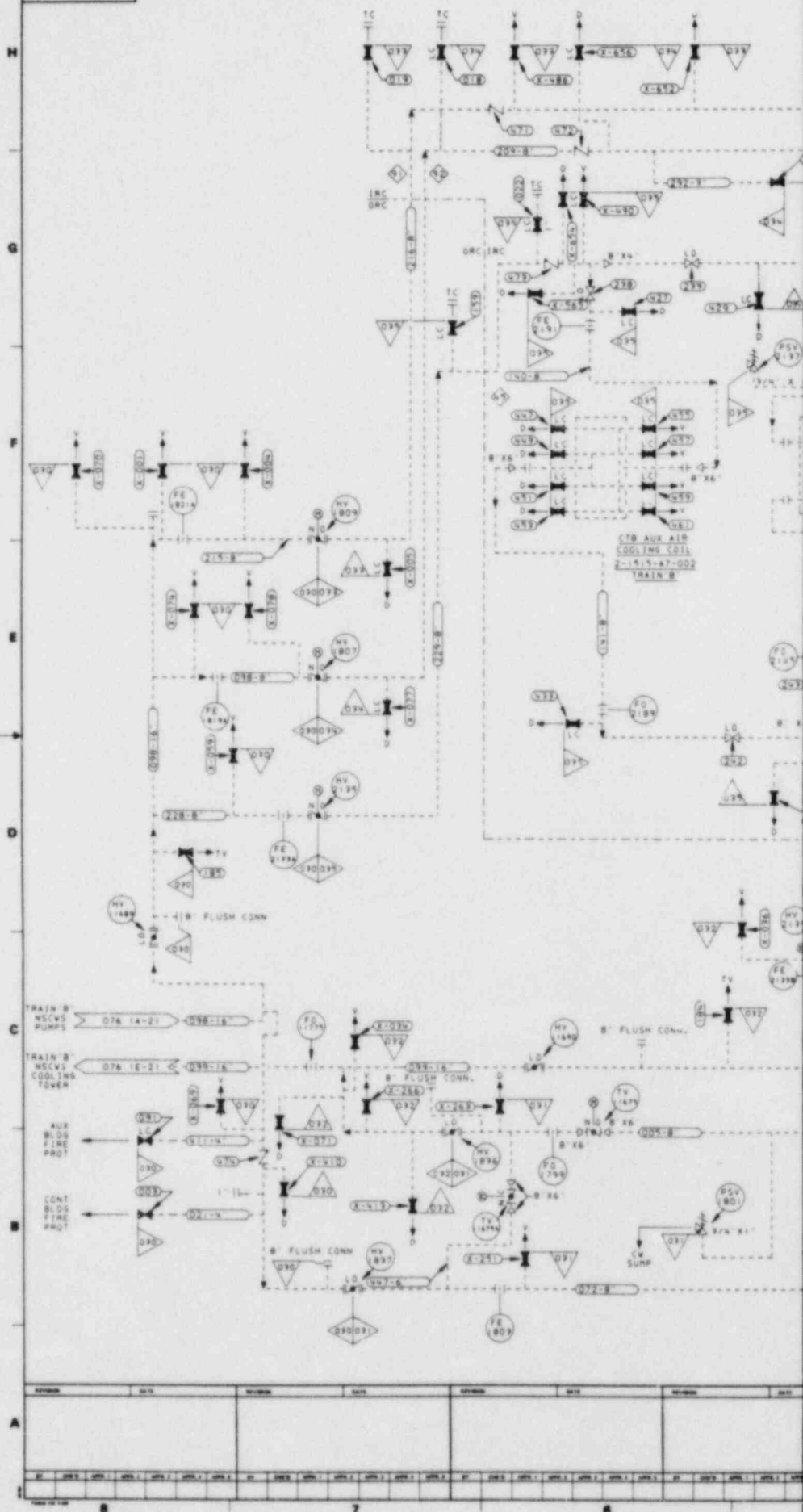
NOTES

TI  
APERTURE  
CARD

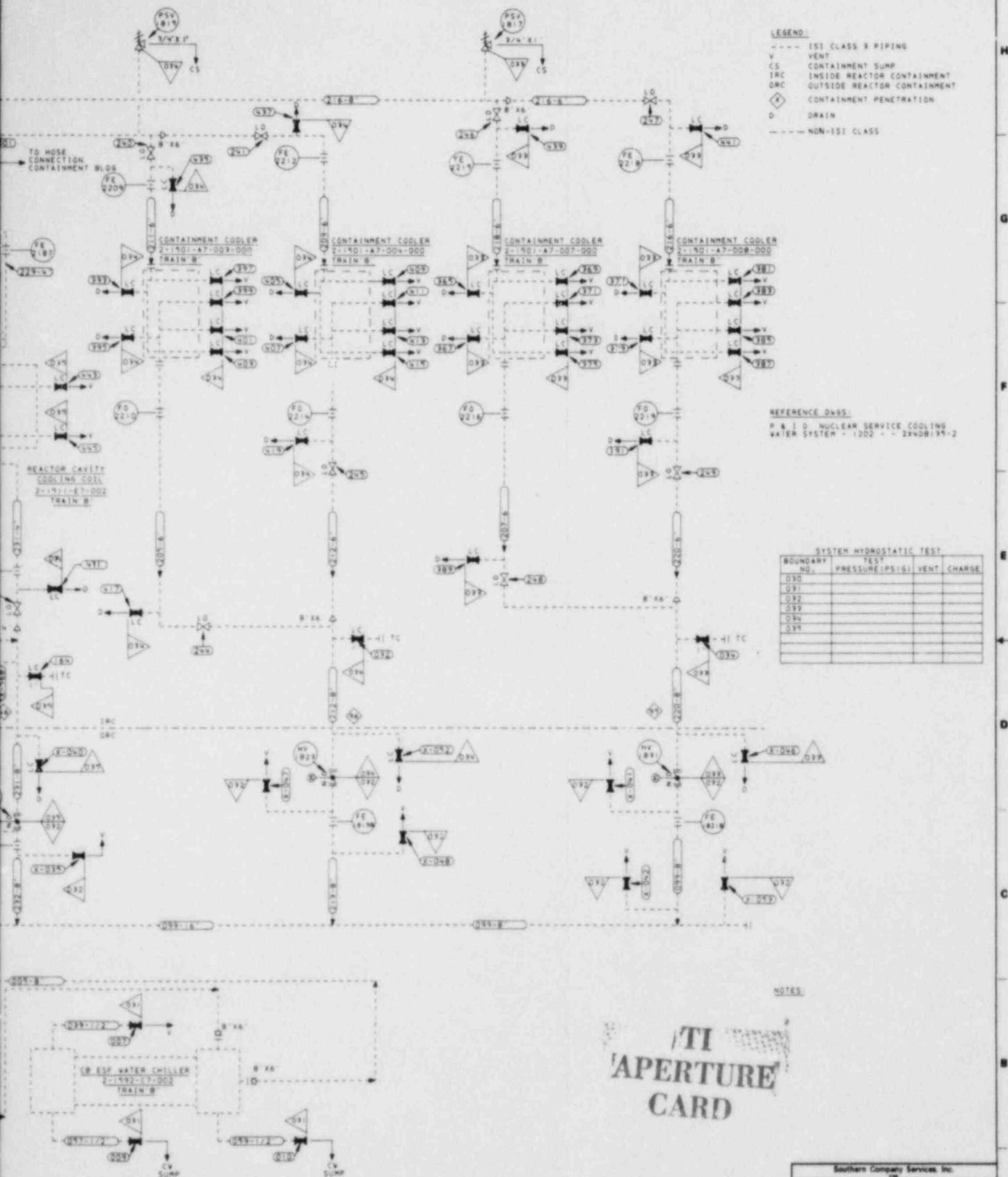
Southern Company Services, Inc.	
GEORGIA POWER COMPANY	
VOGTLE ELFC GENERATING PLANT	
UNIT 2	
INSERVICE INSPECTION	
PIPING CLASSIFICATION	
NUCLEAR SERVICE	
COOLING WATER SYSTEM-1202	
REVISION 1	DATE 12-13-83
ISSUED FOR PSI PROGRAM.	
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REVISION 3	DATE
REVISION 4	DATE
REVISION 5	DATE
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REVISION 96	DATE
REVISION 97	DATE
REVISION 98	DATE
REVISION 99	DATE
REVISION 100	DATE

8405090066 - 12





# Also Available On Aperture Card



Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOGTE ELEC. GENERATING PLANT			
UNIT 2			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
NUCLEAR SERVICE COOLING			
WATER SYSTEM - 1202			
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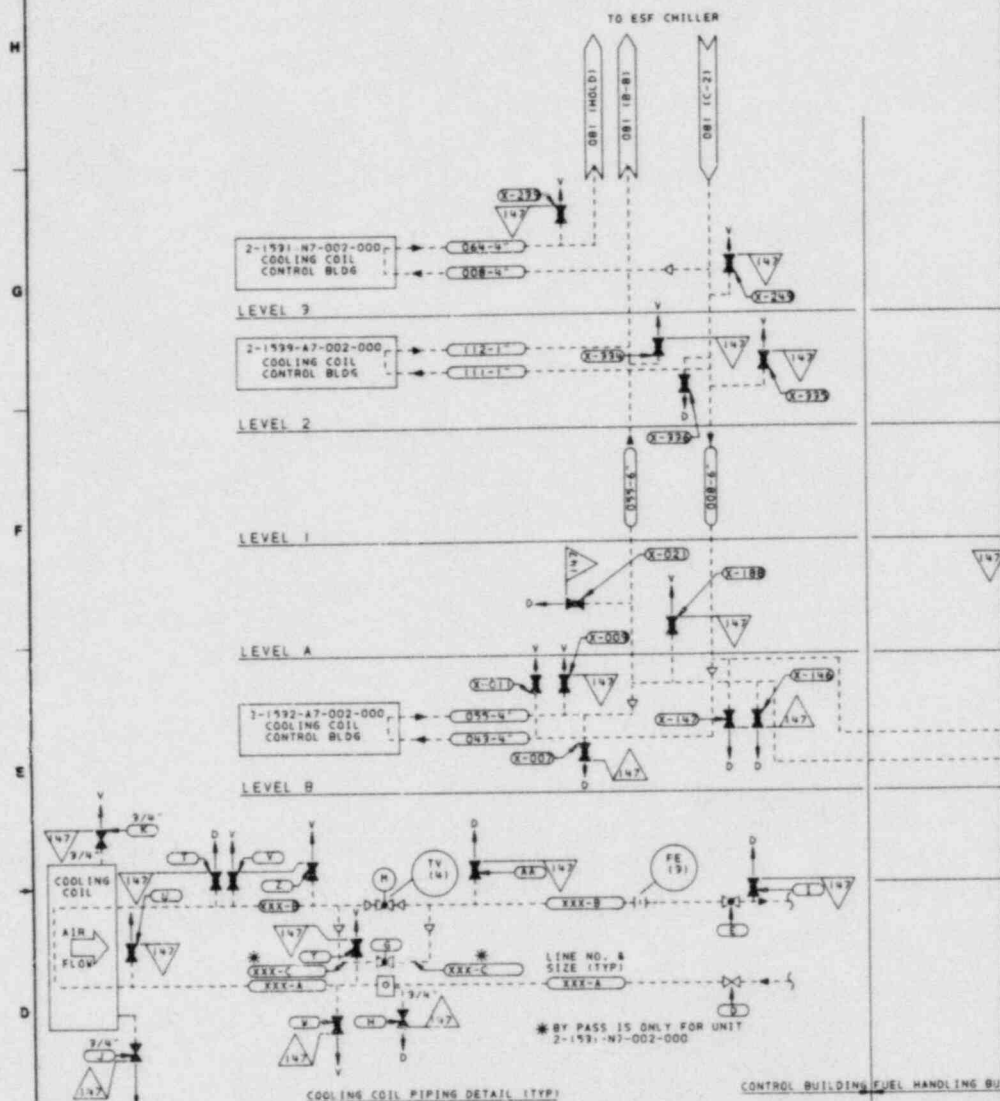
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8405090066-14

080-0-151



COOLING COIL PIPING DETAIL (TYP)

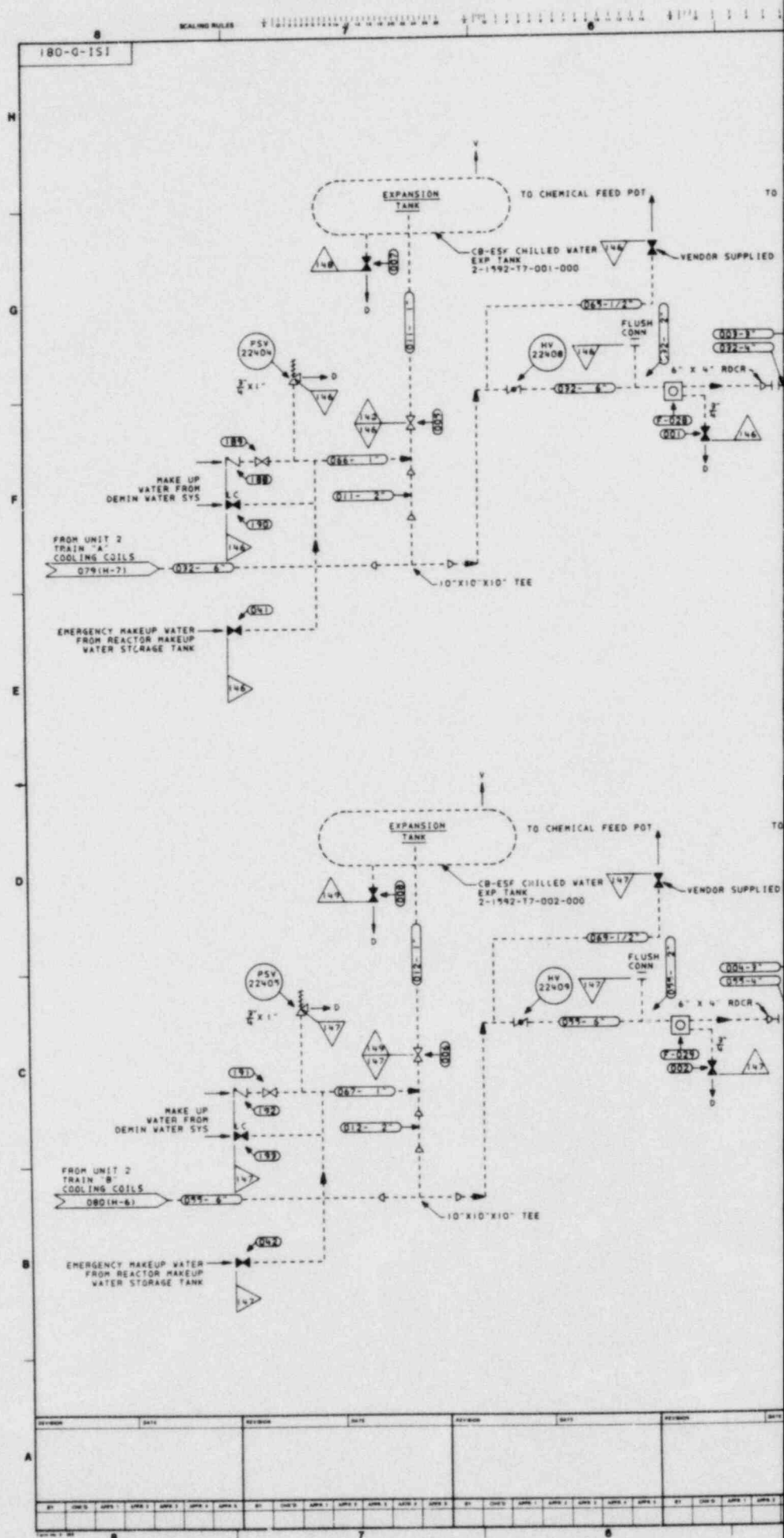
CONTROL BUILDING FUEL HANDLING BU

CHILLED WATER COIL REFERENCE TABLE

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2-1595-A7-016-000								050	1 1/2	059	1 1/2			071	1 1/2
2-1595-A7-018-000								049	1 1/2	060	1 1/2			069	1 1/2
2-1561-E7-001-000								109	4	110	4			180	4

REVISED		DATE		REVISED		DATE		REVISED		DATE		REVISED		DATE								
ST	LINE 5	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	ST	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	ST	LINE 5	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5

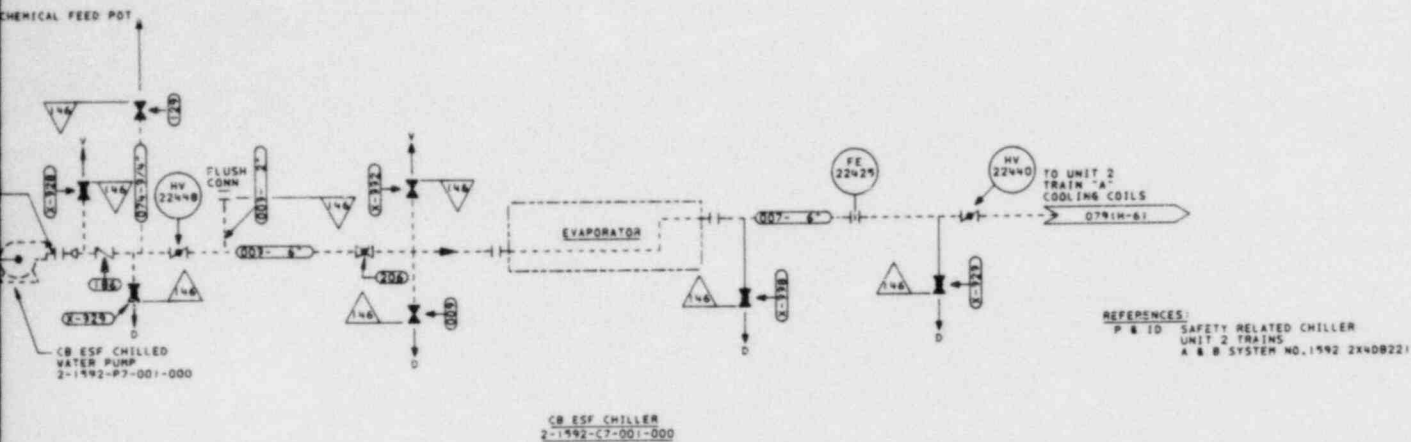
8405090066 - 15





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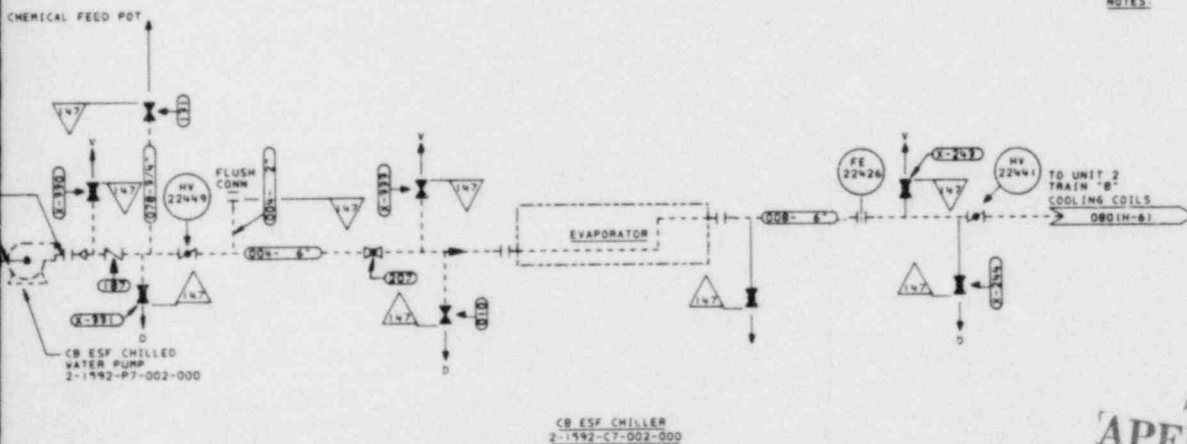
- ISI CLASS 2 PIPING
- NON-ISI CLASS
- D - DRAIN
- V - VENT
- X - HYDRO BOUNDARY



SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS (PSIG)	VENT	CHARGE
146			
147			
148			
149			

NOTES:



TI  
APERTURE  
CARD

ADS-10

Southern Company Services, Inc.	
GEORGIA POWER COMPANY	
VOGTLE ELEC GENERATING PLANT	
UNIT 2	
INSERVICE INSPECTION	
PIPING CLASSIFICATION	
SAFETY RELATED CHILLERS	
SYSTEM - 1592	
PREPARED BY	DESIGNED BY
SCALE	ISSUED NUMBER
NO	IST-D-081 0

8405090066 -16



H

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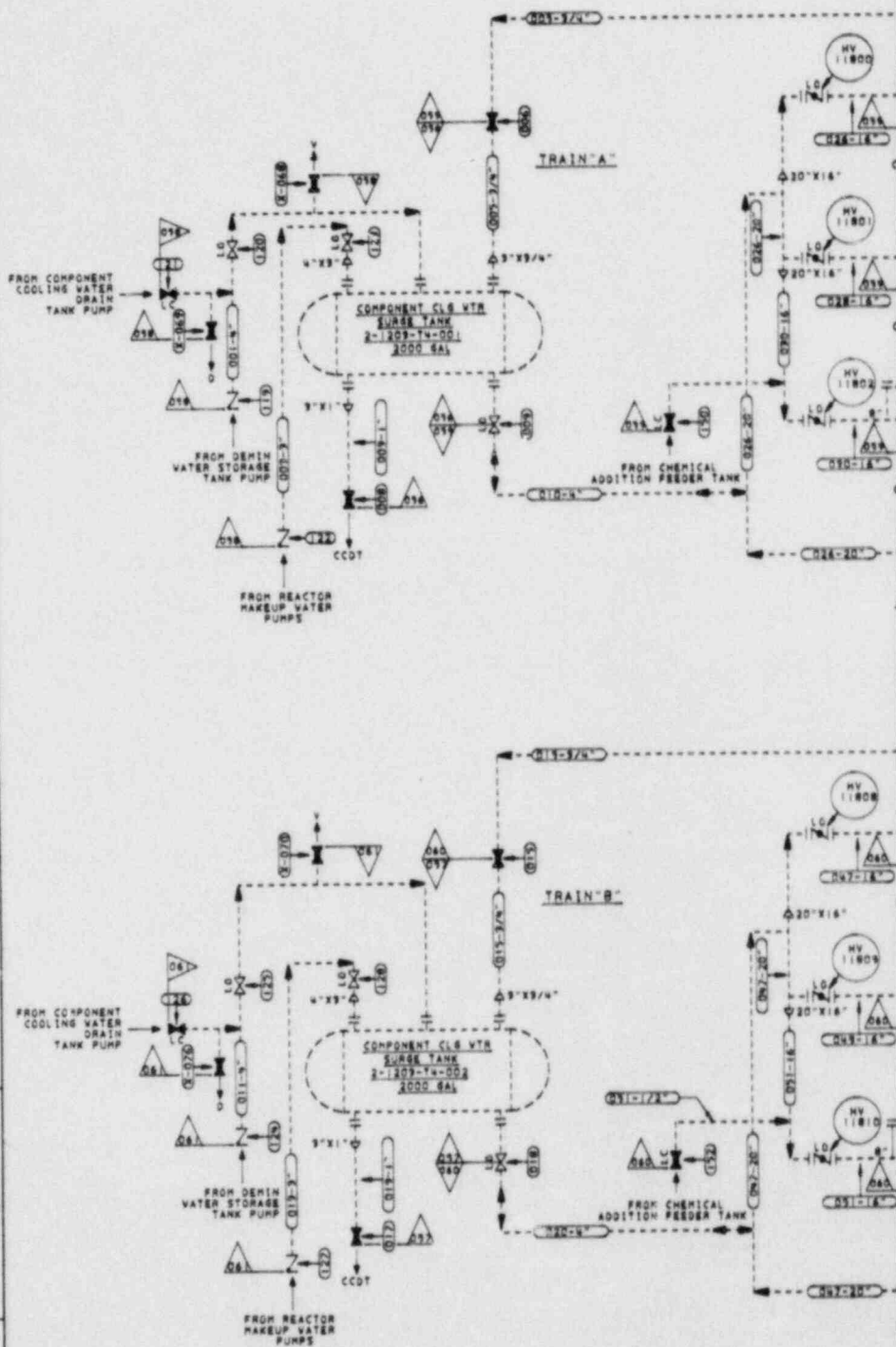
D

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REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
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93	10/1/78	94	10/1/78	95	10/1/78	96	10/1/78
97	10/1/78	98	10/1/78	99	10/1/78	100	10/1/78

LEGEND:

- ISI CLASS 1 PIPING  
V - VENT  
D - DRAIN  
CCDT - COMPONENT COOLING WATER DRAIN TANK  
CCWS - COMPONENT COOLING WATER SYSTEM  
△ - HYDRO BOUNDARY  
TS - TEMPORARY STRAINER

REFERENCES:

P & ID COMPONENT COOLING WTR. SYSTEM 1209 - 2340816

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS (PSIG)	VENT	CHARGE
058			
059			
060			
061			

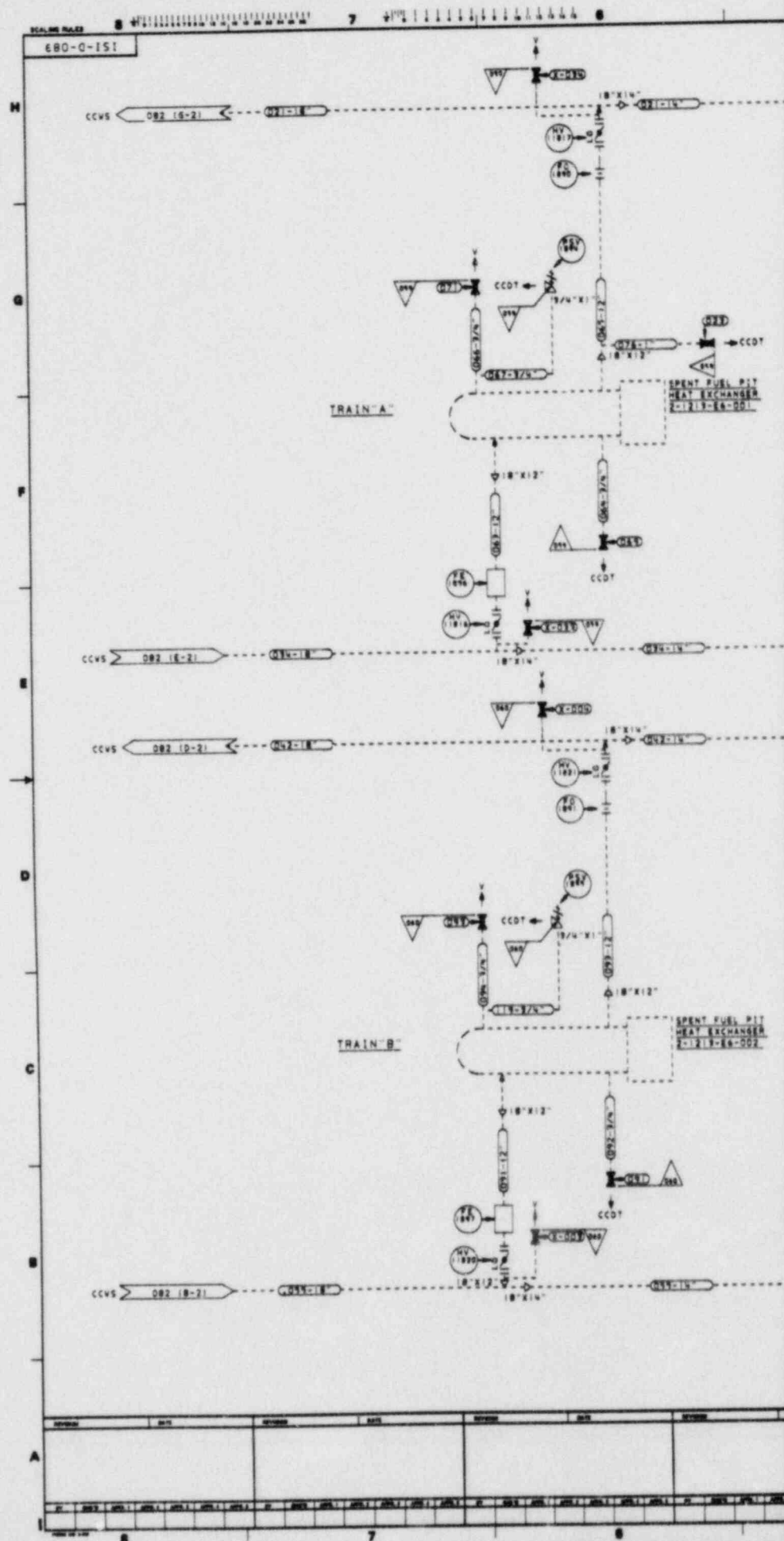
NOTES:

TI  
APERTURE  
CARD

Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOTLE ELEC GENERATING PLANT			
UNIT 2			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
COMPONENT COOLING WATER			
SYSTEM - 1209			
ISSUED FOR PSI PROGRAM.	SCALE	151-D-082	J

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-17



Also Available On  
Aperture Card

LEGEND:

- IS: CLASS 2 PIPING
- - - IS: CLASS 3 PIPING
- CCDT COMPONENT COOLING WATER
- DRAIN TANK
- VENT
- CCWS COMPONENT COOLING WATER SYSTEM
- △ HYDRO BOUNDARY

REFERENCES:

PAID COMPONENT COOLING WATER  
SYSTEM-1209 2X408197

SYSTEM HYDROSTATIC TEST

BOUNDARY	TEST	TEST	TEST	TEST
NO.	NO.	NO.	NO.	NO.
001	001	001	001	001
002	002	002	002	002
003	003	003	003	003
004	004	004	004	004
005	005	005	005	005
006	006	006	006	006
007	007	007	007	007
008	008	008	008	008
009	009	009	009	009
010	010	010	010	010

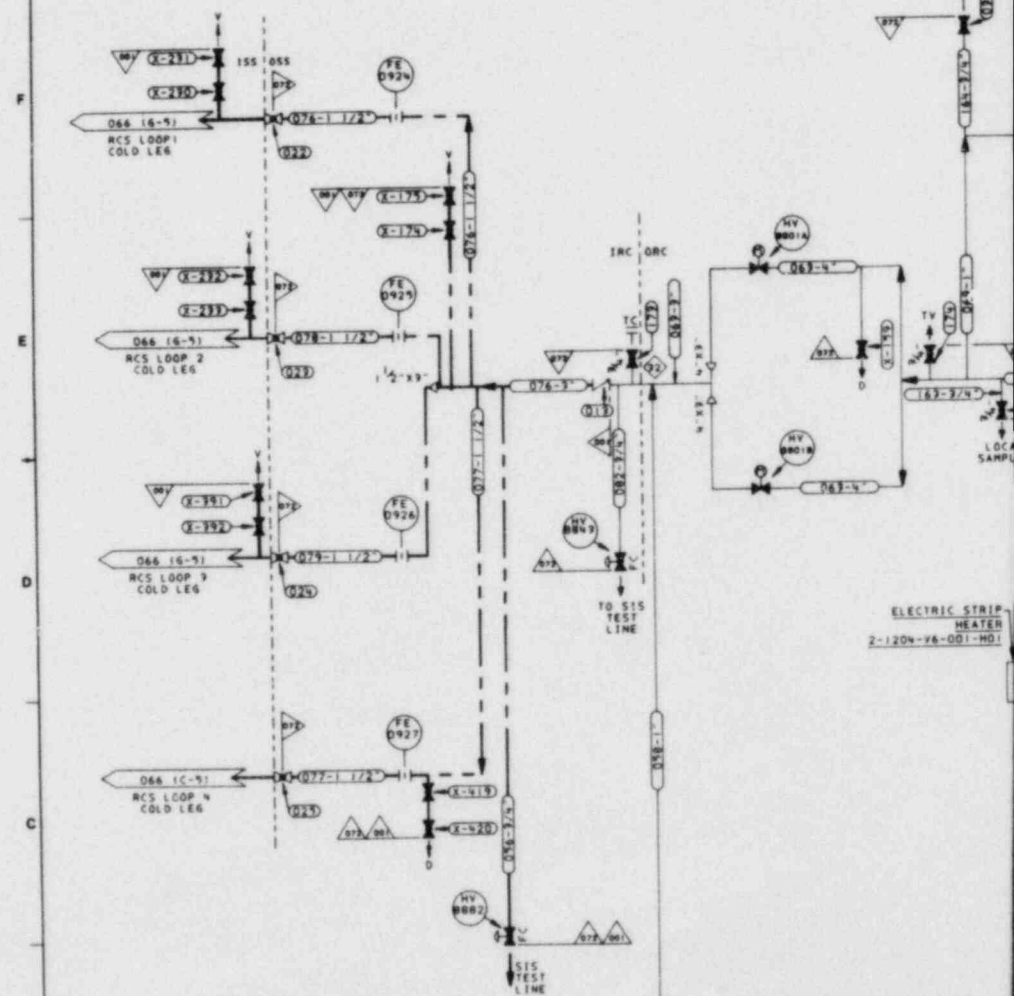
NOTES:

TI  
APERTURE  
CARD

Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOTLE ELEC GENERATING PLANT			
UNIT 2			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
COMPONENT COOLING WATER			
SYSTEM-1209			
REVISION	BY	DATE	APPROVED
1	ASG	05/5	
NO	SCALE	1	151-D-089

8405090066 - 18

880-0-151





ELECTRIC STRIP  
HEATER  
2-1204-V6-001-H01

REV-BUDS					REV-BUDS					REV-BUDS					REV-BUDS					REV-BUDS						
B1	C001-0	A000-1	A000-2	A000-3	A000-4	B1	C001-0	A000-1	A000-2	A000-3	A000-4	A000-5	B1	C001-0	A000-1	A000-2	A000-3	A000-4	A000-5	B1	C001-0	A000-1	A000-2	A000-3	A000-4	A000-5



LEGEND:

ISI CLASS 1 PIPING	
ISI CLASS 2 PIPING	
V	VENT
TV	TEST VENT
D	DRAIN
WHT	WASTE HOLD-UP TANK
TC	TEST CONNECTION
SIS	SAFETY INJECTION SYSTEM
IRC	INSIDE REACTOR CONTAINMENT
ORC	OUTSIDE REACTOR CONTAINMENT
	CONTAINMENT PENETRATION
	HYDRO BOUNDARY

#### REFERENCES

PAID SAFETY INJECTION SYSTEM 2X408119

## SYSTEM HYDROSTATIC TEST

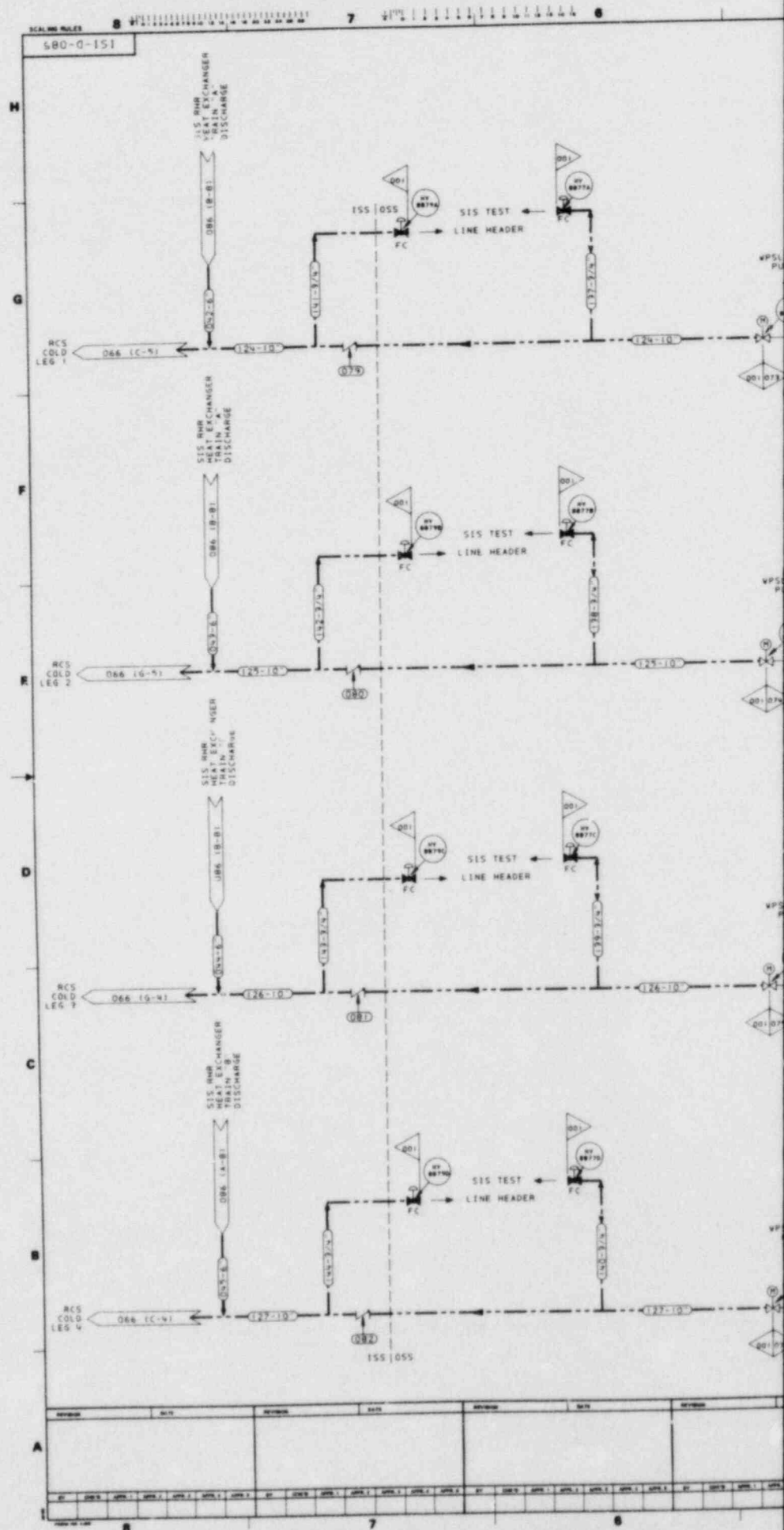
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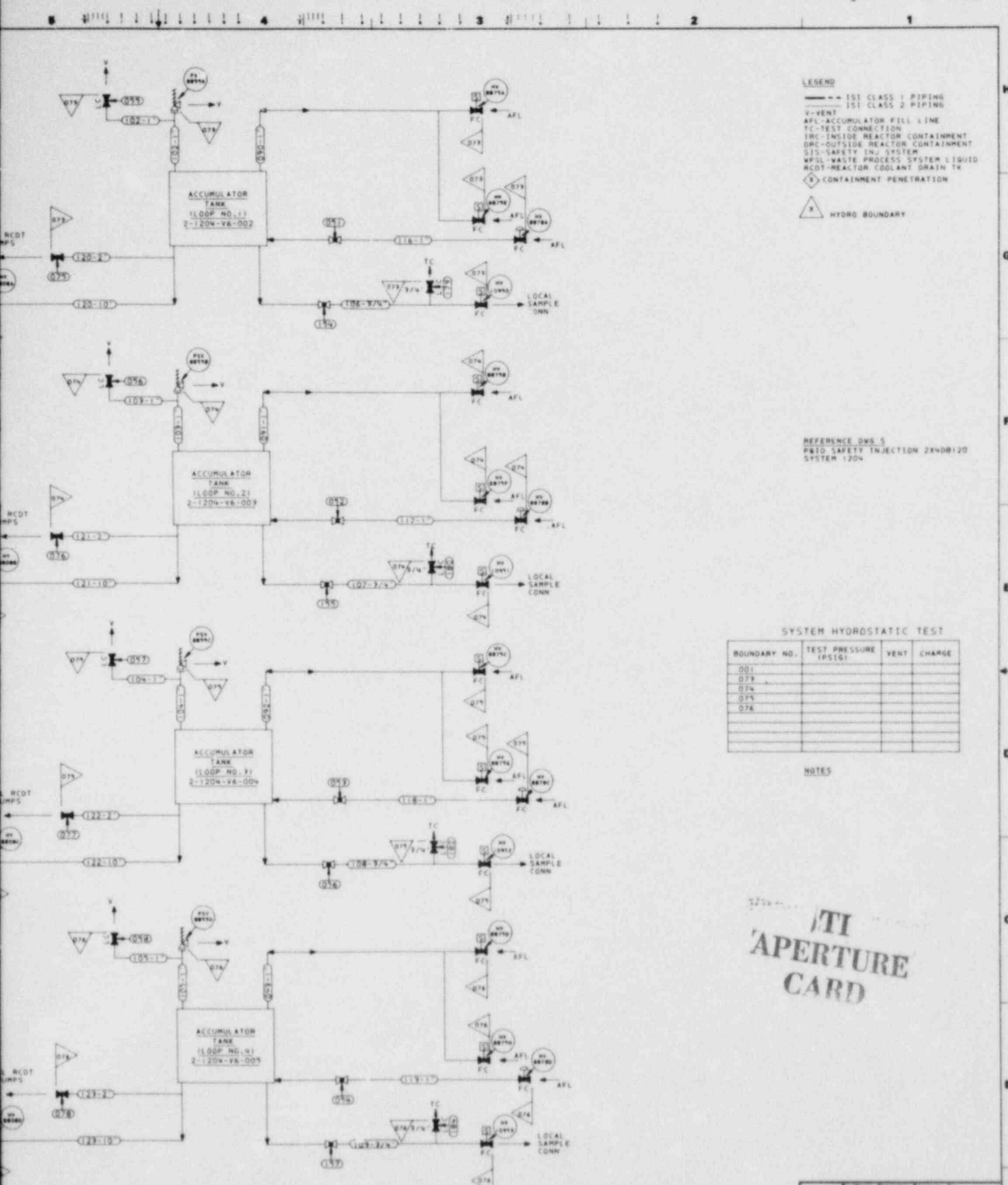
## NOTES

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APERTURE  
CARD

Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOGTLE ELEC GENERATING PLANT			
UNIT 2			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
SAFETY INJECTION-SYSTEM 1204			
DESIGNED BY	MARK GTN	DESIGNED BY	
SCALE	PROJECT #	DRAWING NUMBER	REV
		151-D-084	







REFERENCE DWS 5  
P&ID SAFETY INJECTION 2X40B120  
SYSTEM 1204

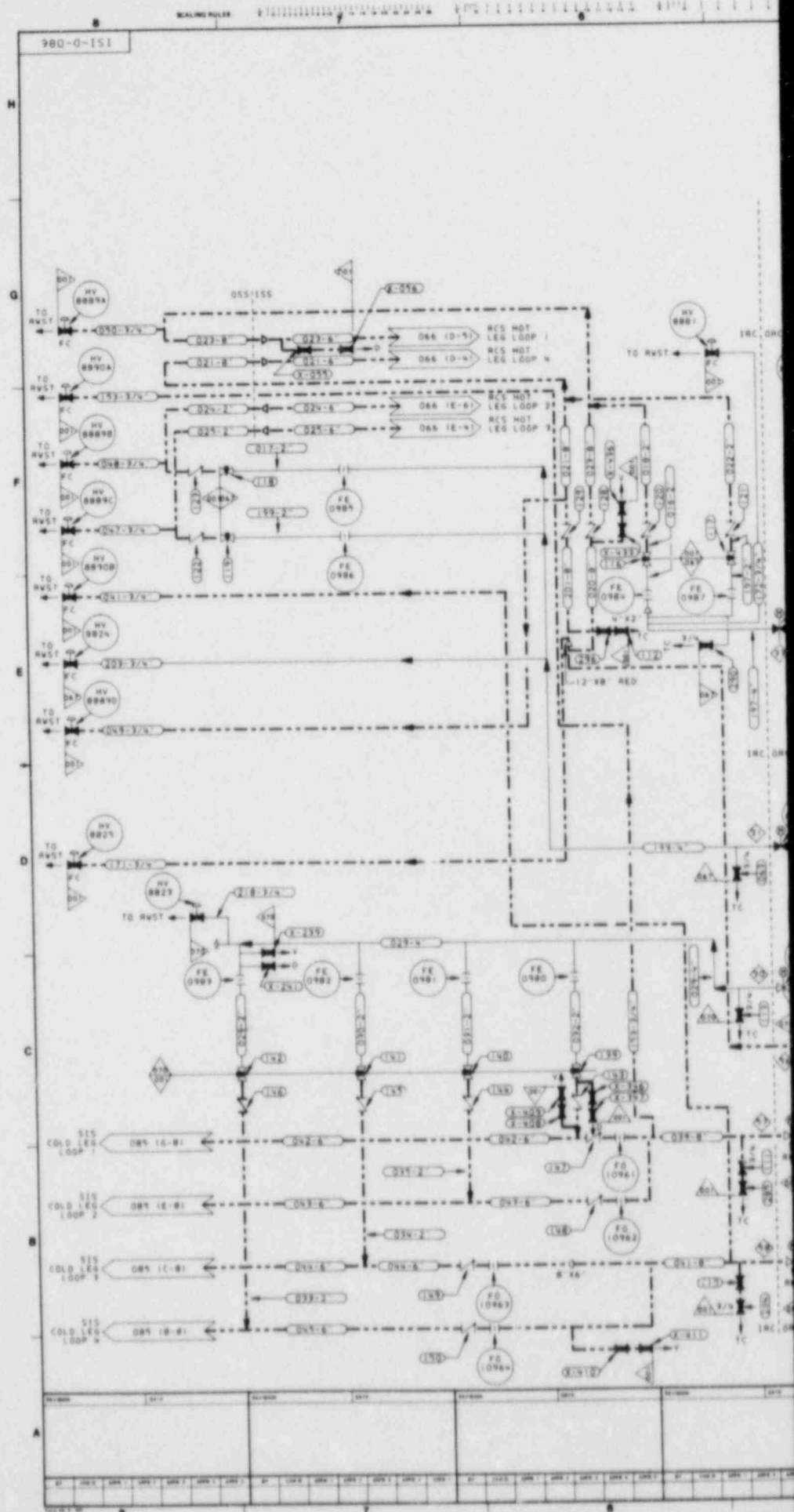
SYSTEM HYDROSTATIC TEST

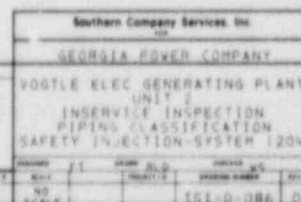
BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
001			
079			
075			
076			

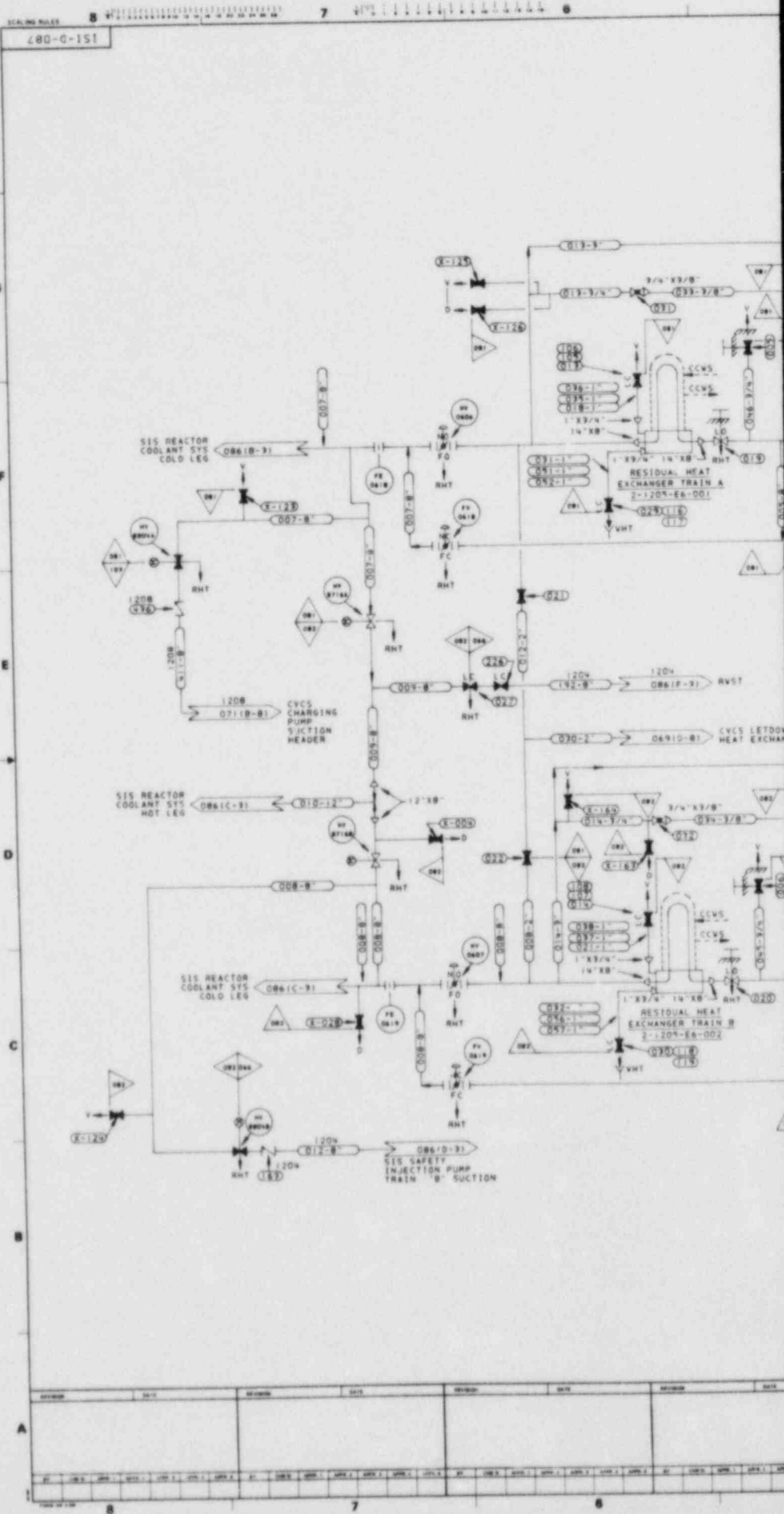
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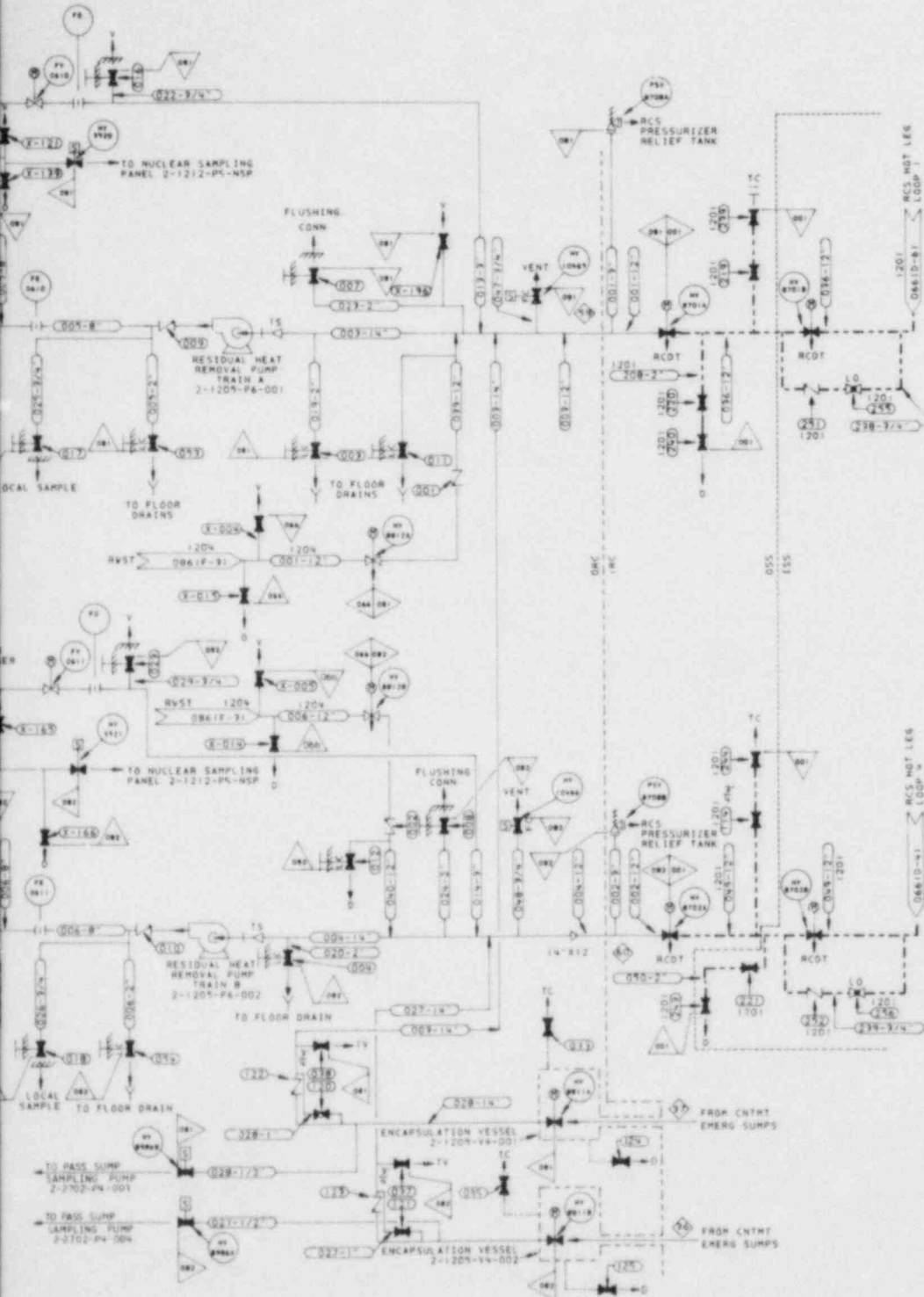
TI  
APERTURE  
CARD

Southern Company Services, Inc.											
GEORGIA POWER COMPANY											
VOGTE ELEC GENERATING PLANT											
UNIT-2											
INSERVICE INSPECTION											
PIPING CLASSIFICATION											
SAFETY INJECTION SYS-1204											
ISSUED FOR PSI PROGRAM											
APRIL 1	APRIL 2	APRIL 3	APRIL 4	APRIL 5	APRIL 6	APRIL 7	APRIL 8	APRIL 9	APRIL 10	APRIL 11	APRIL 12
APRIL 13	APRIL 14	APRIL 15	APRIL 16	APRIL 17	APRIL 18	APRIL 19	APRIL 20	APRIL 21	APRIL 22	APRIL 23	APRIL 24
APRIL 25	APRIL 26	APRIL 27	APRIL 28	APRIL 29	APRIL 30	APRIL 31	APRIL 32	APRIL 33	APRIL 34	APRIL 35	APRIL 36
APRIL 37	APRIL 38	APRIL 39	APRIL 40	APRIL 41	APRIL 42	APRIL 43	APRIL 44	APRIL 45	APRIL 46	APRIL 47	APRIL 48
APRIL 49	APRIL 50	APRIL 51	APRIL 52	APRIL 53	APRIL 54	APRIL 55	APRIL 56	APRIL 57	APRIL 58	APRIL 59	APRIL 60
APRIL 61	APRIL 62	APRIL 63	APRIL 64	APRIL 65	APRIL 66	APRIL 67	APRIL 68	APRIL 69	APRIL 70	APRIL 71	APRIL 72
APRIL 73	APRIL 74	APRIL 75	APRIL 76	APRIL 77	APRIL 78	APRIL 79	APRIL 80	APRIL 81	APRIL 82	APRIL 83	APRIL 84
APRIL 85	APRIL 86	APRIL 87	APRIL 88	APRIL 89	APRIL 90	APRIL 91	APRIL 92	APRIL 93	APRIL 94	APRIL 95	APRIL 96
APRIL 97	APRIL 98	APRIL 99	APRIL 100	APRIL 101	APRIL 102	APRIL 103	APRIL 104	APRIL 105	APRIL 106	APRIL 107	APRIL 108
APRIL 109	APRIL 110	APRIL 111	APRIL 112	APRIL 113	APRIL 114	APRIL 115	APRIL 116	APRIL 117	APRIL 118	APRIL 119	APRIL 120









- LEGEND:
- IS1 CLASS 1 PIPING
  - IS1 CLASS 2 PIPING
  - IS1 CLASS 3 PIPING
  - NON IS1 CLASS
  - V - VENT
  - D - DRAIN
  - TC - TEST CONNECTION
  - ◇ - CONTAINMENT PENETRATION
  - SIS - SAFETY INJECTION SYSTEM
  - RCS - REACTOR COOLANT SYSTEM
  - TV - TEST VENT
  - OSS - OUTSIDE SECONDARY SHIELDING
  - ISS - INSIDE SECONDARY SHIELDING
  - TS - TEMPORARY STRAINER
  - △ - HYDRO BOUNDARY
  - WHT - WASTE HOLD-UP TANK

REFERENCES:  
P & I D. RESIDUAL HEAT REMOVAL SYSTEM 1209-1-1-24408122

SYSTEM HYDROSTATIC TEST			
BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
001			
004			
001			
002			
103			

NOTES:

TI  
APERTURE  
CARD

Southern Company Services, Inc.	
GEORGIA POWER COMPANY	
VOGTLE ELECTRIC GENERATING PLANT UNIT 2	
INSERVICE INSPECTION PIPING CLASSIFICATION	
RESIDUAL HEAT REMOVAL SYSTEM 1209	
PREPARED BY	REVIEWED BY
DATE	DATE
SCALE	1:1

ISSUED FOR PSI PROGRAM

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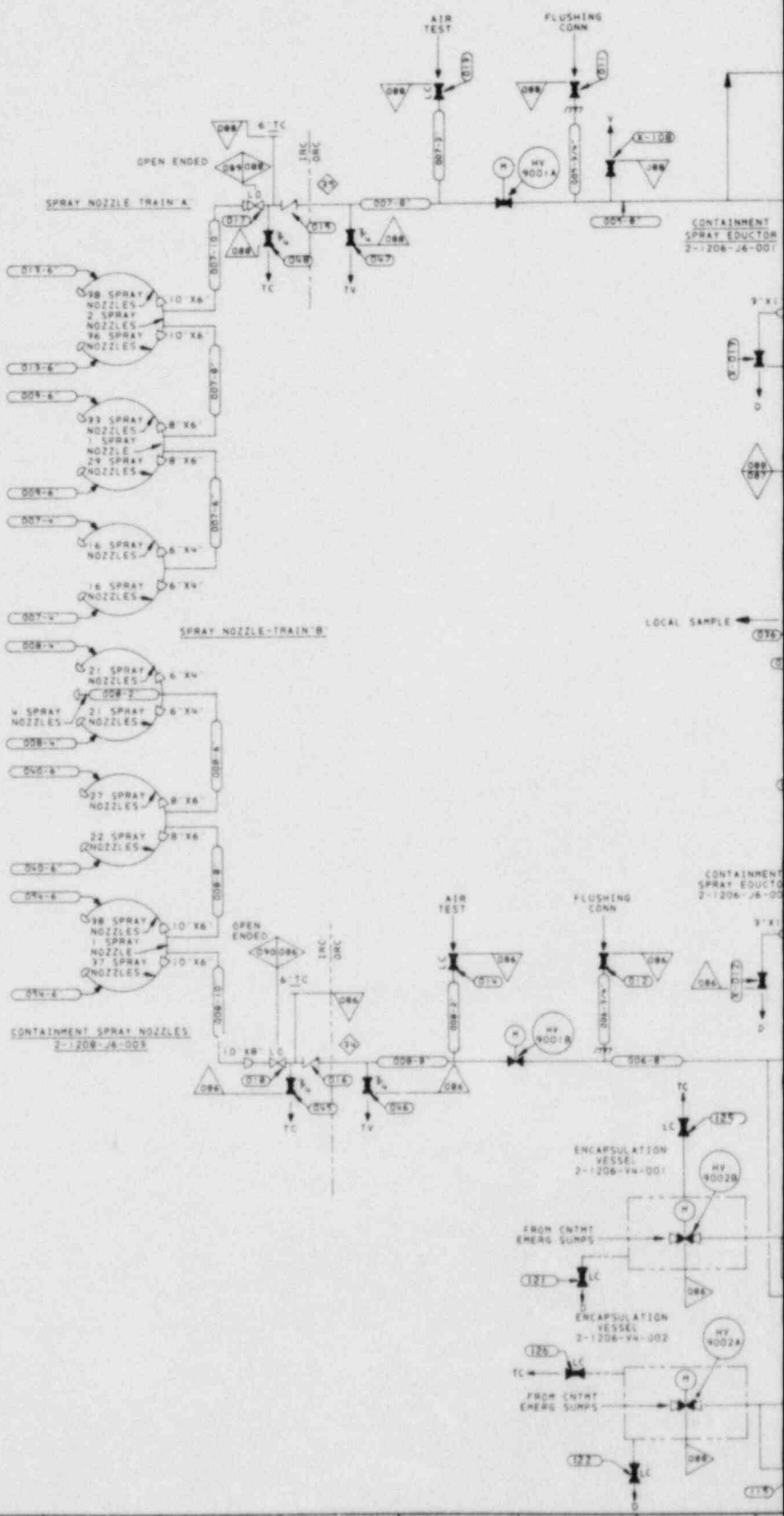
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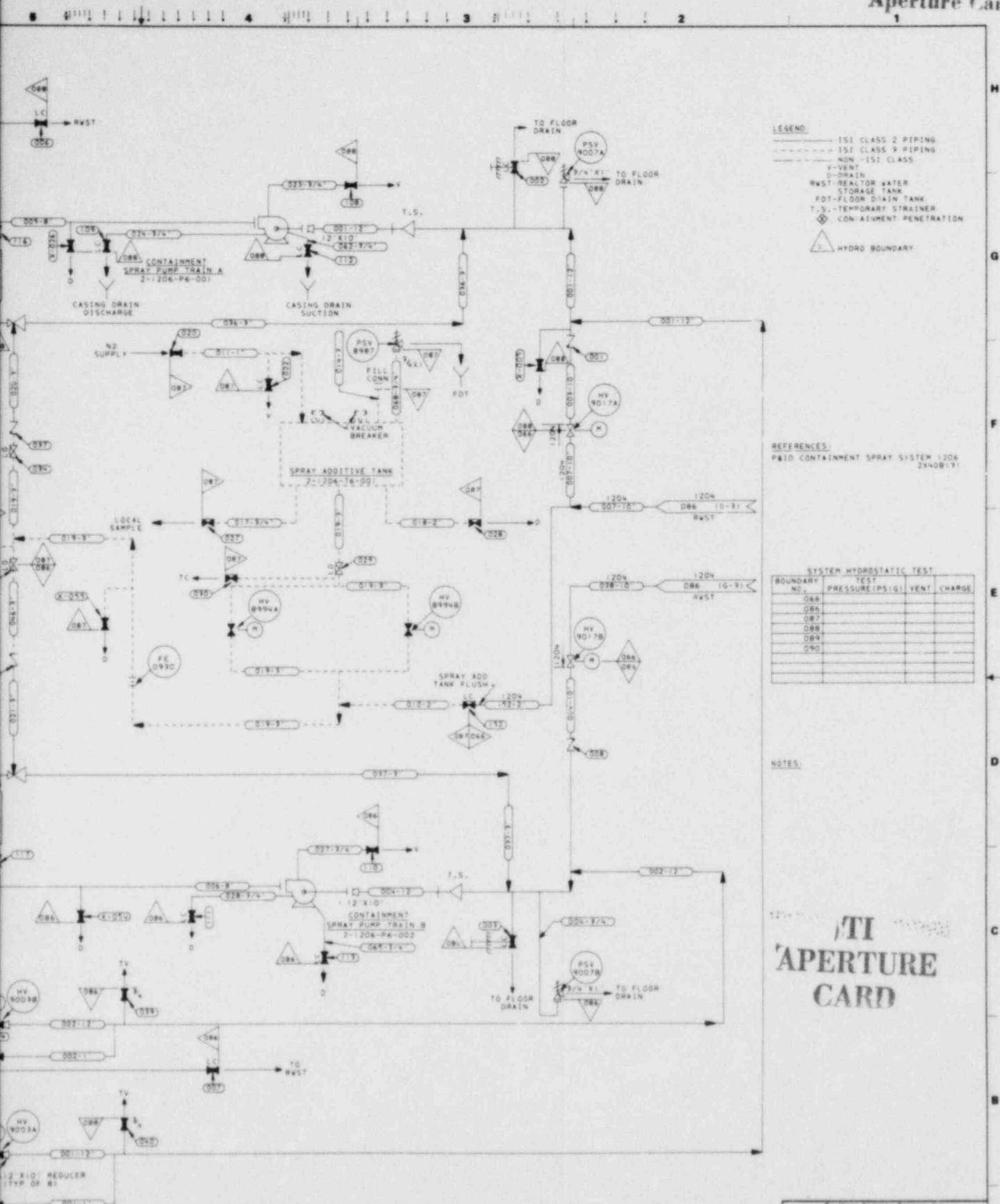
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89	10/1/78	90	10/1/78	91	10/1/78	92	10/1/78
93	10/1/78	94	10/1/78	95	10/1/78	96	10/1/78
97	10/1/78	98	10/1/78	99	10/1/78	100	10/1/78



**LEGEND:**  
 --- 1ST CLASS 2 PIPING  
 --- 1ST CLASS 3 PIPING  
 --- NON-1ST CLASS  
 V-VENT  
 D-DRAIN  
 RWST-REACTOR WATER STORAGE TANK  
 FDT-FLOOR DRAIN TANK  
 T.S.-TEMPORARY STRAINER  
 X-CONTAINMENT PENETRATION  
 Δ-HYDRO BOUNDARY

**REFERENCES:**  
 P&ID CONTAINMENT SPRAY SYSTEM 1206  
 2X40B171

SYSTEM HYDROSTATIC TEST				
BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE	
086				
087				
088				
089				
090				

NOTES:

TI  
APERTURE  
CARD

Southern Company Services, Inc.	
GEORGIA POWER COMPANY	
VOGTLE ELEC. GENERATING PLANT	
UNIT 2	
INSERVICE INSPECTION	
PIPING CLASSIFICATION	
CONTAINMENT SPRAY SYS - 1206	
DESIGNED BY	REVIEWED BY
DRAWN BY	CHECKED BY
SCALE	151-D-088 0

SCALING RULES

680-Q-151

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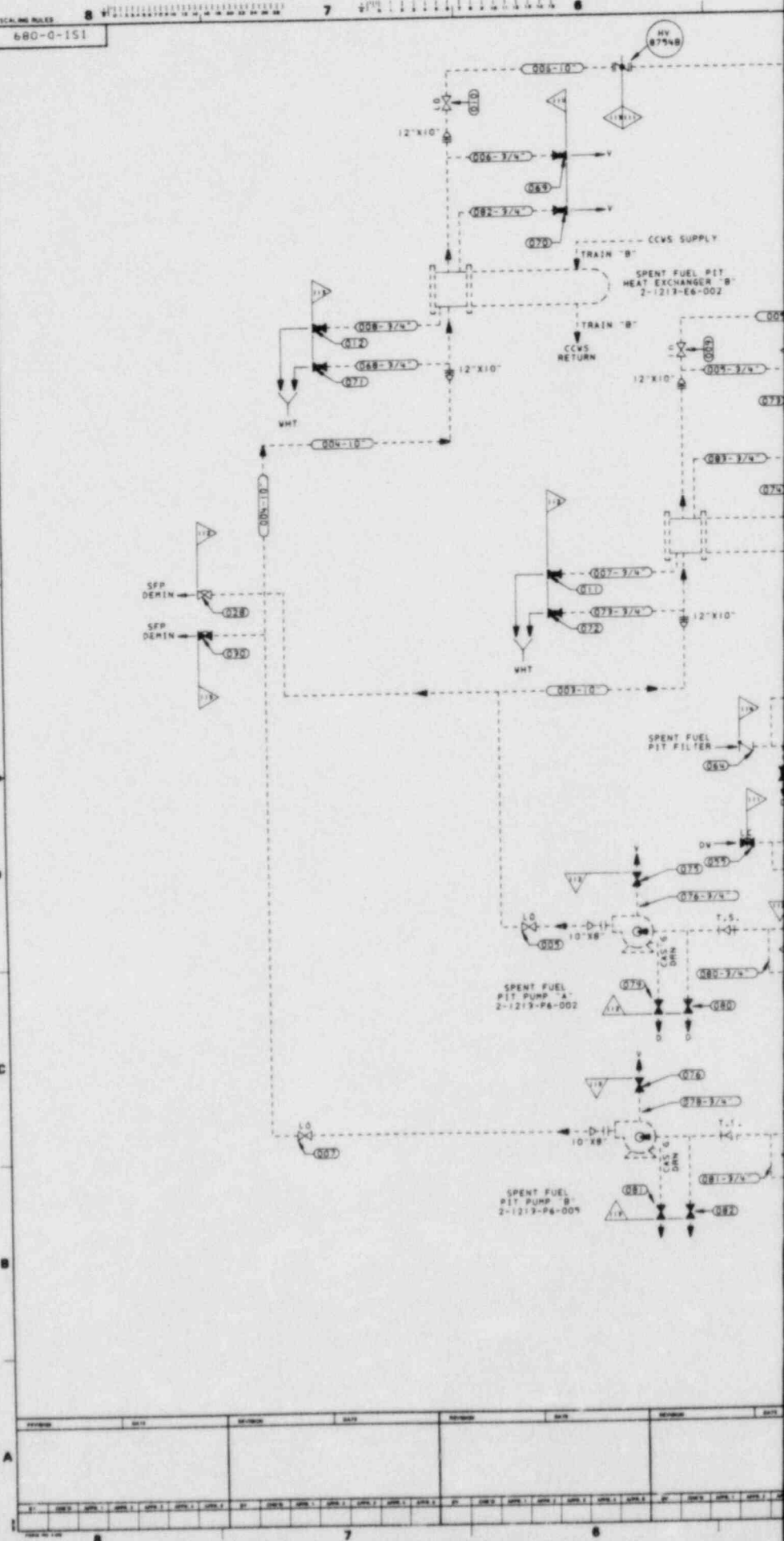
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ISI	CLASS 2 PIPING
ISI	CLASS 3 PIPING
RMST	REACTOR MAKE-UP WTR STOR TANK
DW	DEMINERALIZED WATER
CCWS	COMPONENT COOLING WATER SUPPLY
WHT	WASTE HOLDING TANK
V	VENT
D	DRAIN
SFP	SPENT FUEL PIT
RVST	REFUELING WATER STORAGE TANK
TS	TEMPORARY STRAINER
RVPP	REFUELING WATER PURIFICATION PUMP
IRC	INSIDE REACTOR CONTAINMENT
ORS	OUTSIDE REACTOR CONTAINMENT
	HYDRO BOUNDARY

REFERENCE DVGS:  
1. PAID DIAGRAM SPENT FUEL 2XND0190  
COOLING & PURIFICATION  
SYSTEM NO. 1219

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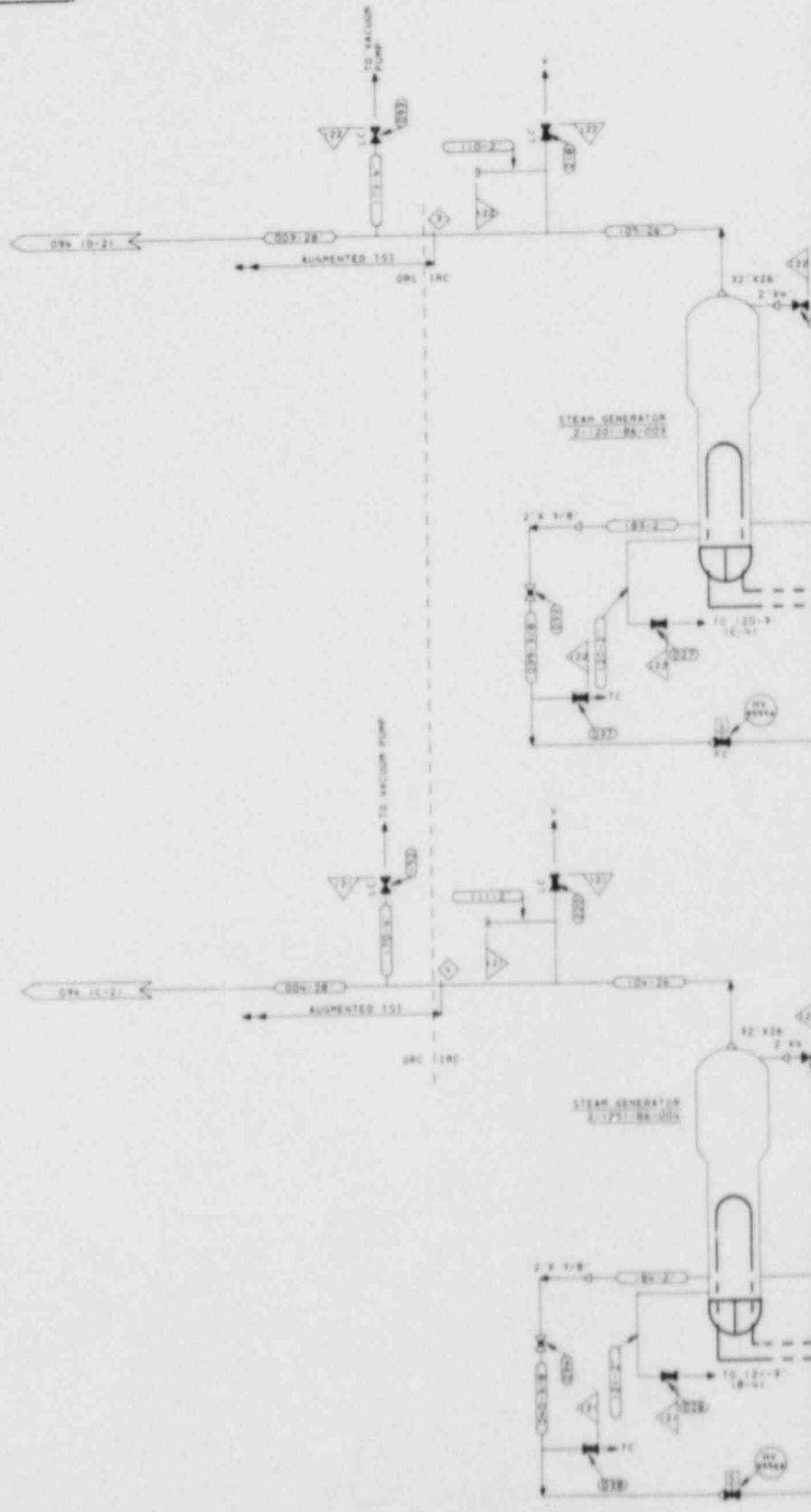
NOTES

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APERTURE  
CARD

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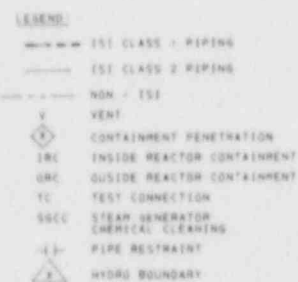
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REVISION	DATE	BY	CHKD	APPROV	REVISION	DATE	BY	CHKD	APPROV
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9	10/1/66	W. J. H.			10	10/1/66	W. J. H.		

Also Available On  
Aperture Card



陳麗華、陳國治、陳國治、陳國治、陳國治

P. 61. D. MAIN STEAM SYSTEM : (20  
284000: 5/14-)

SYNTHESIS OF POLYMER			
REACTANT	REAGENT	TEMPERATURE	TIME
1.0 g	1.0 g	1.0 g	1.0 g
1.0 g	1.0 g	1.0 g	1.0 g
1.0 g	1.0 g	1.0 g	1.0 g

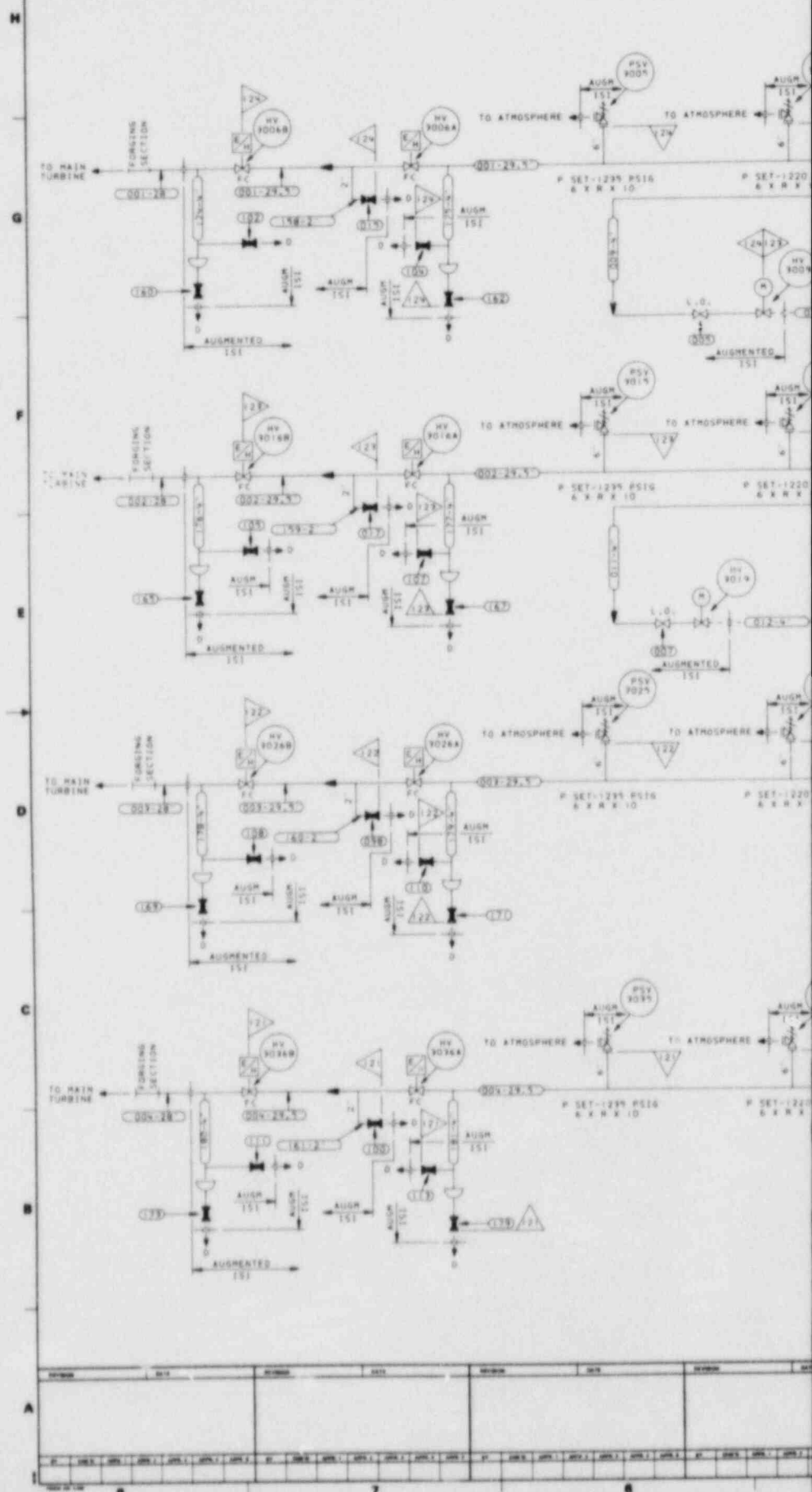
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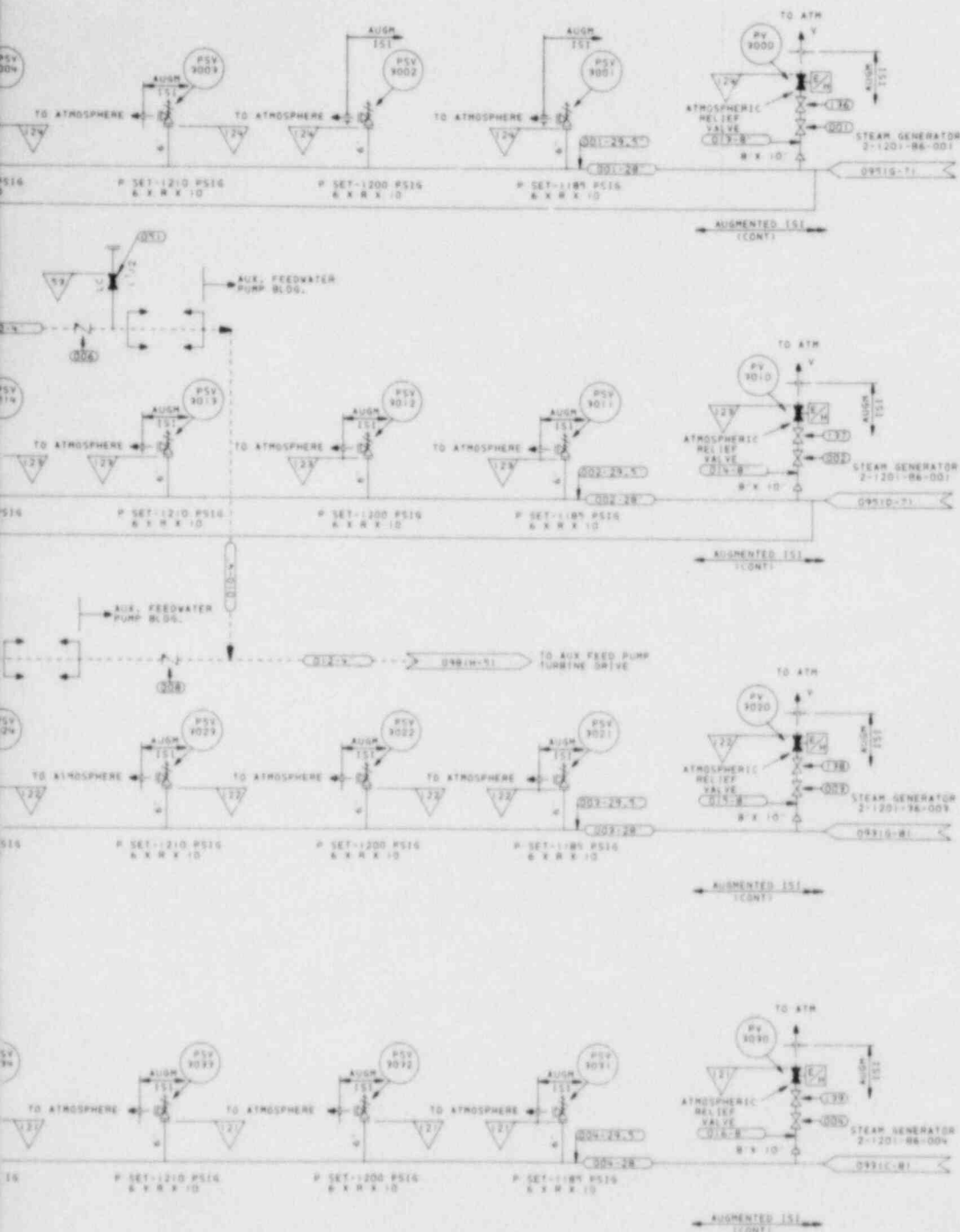


Southern Company Services, Inc.					
GEORGIA POWER COMPANY					
VORTLE ELEC. GENERATING PLANT					
UNIT 2					
INSERVICE INSPECTION					
PIPING CLASSIFICATION					
MAIN STEAM SYSTEM-901					
COMPONENT	P	NAME	D	STATUS	
NO.		PLANT	X	REMARKS	
854 R				15-0-099	

8'405090066 - 25







LEGEND:  
 --- ISI CLASS 2 PIPING  
 --- ISI CLASS 3 PIPING  
 --- PIPE RESTRAINT  
 V VENT  
 D DRAIN  
 X HYDRO BOUNDARY  
 E/H ELECTRO - HYDRAULIC

REFERENCES DWSS  
 P & I D MAIN STEAM SYSTEM-1901  
 28408159-2

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS (PSI)	VENT	CHARGE
121			
122			
123			
124			
125			
126			
127			
128			
129			
130			
131			
132			
133			
134			
135			
136			
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140			

NOTES:

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APERTURE  
CARD

REVISION	DATE	DESCRIPTION	BY	CHKD	DATE	REVISION	DATE	DESCRIPTION	BY	CHKD	DATE
1	11/1/63	ISSUED FOR PSI PROGRAM.				2	11/1/63				

Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
FOSTLE ELEC. GENERATING PLANT			
UNIT 2			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
MAIN STEAM SYSTEM-1901			
REVISION	DATE	DESCRIPTION	BY
1	11/1/63	ISSUED FOR PSI PROGRAM.	
2	11/1/63		
3	11/1/63		
4	11/1/63		
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93	11/1/63		
94	11/1/63		
95	11/1/63		
96	11/1/63		
97	11/1/63		
98	11/1/63		
99	11/1/63		
100	11/1/63		

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560-0-151

H

G

F

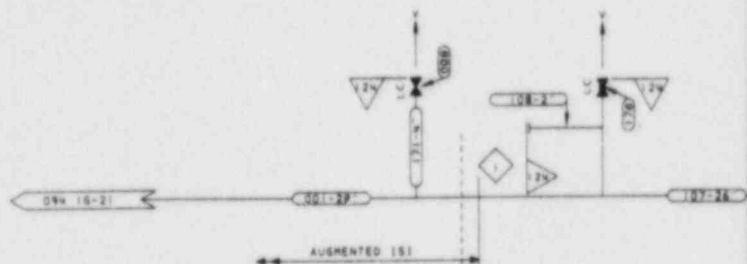
E

D

C

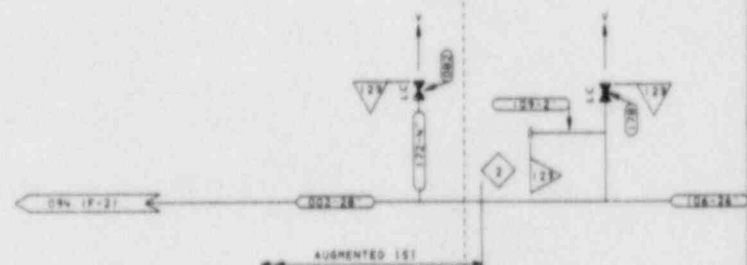
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A

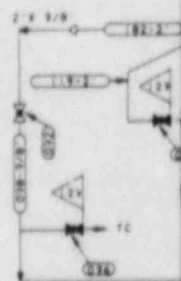


STEAM GENERATOR  
2-1201-86-001

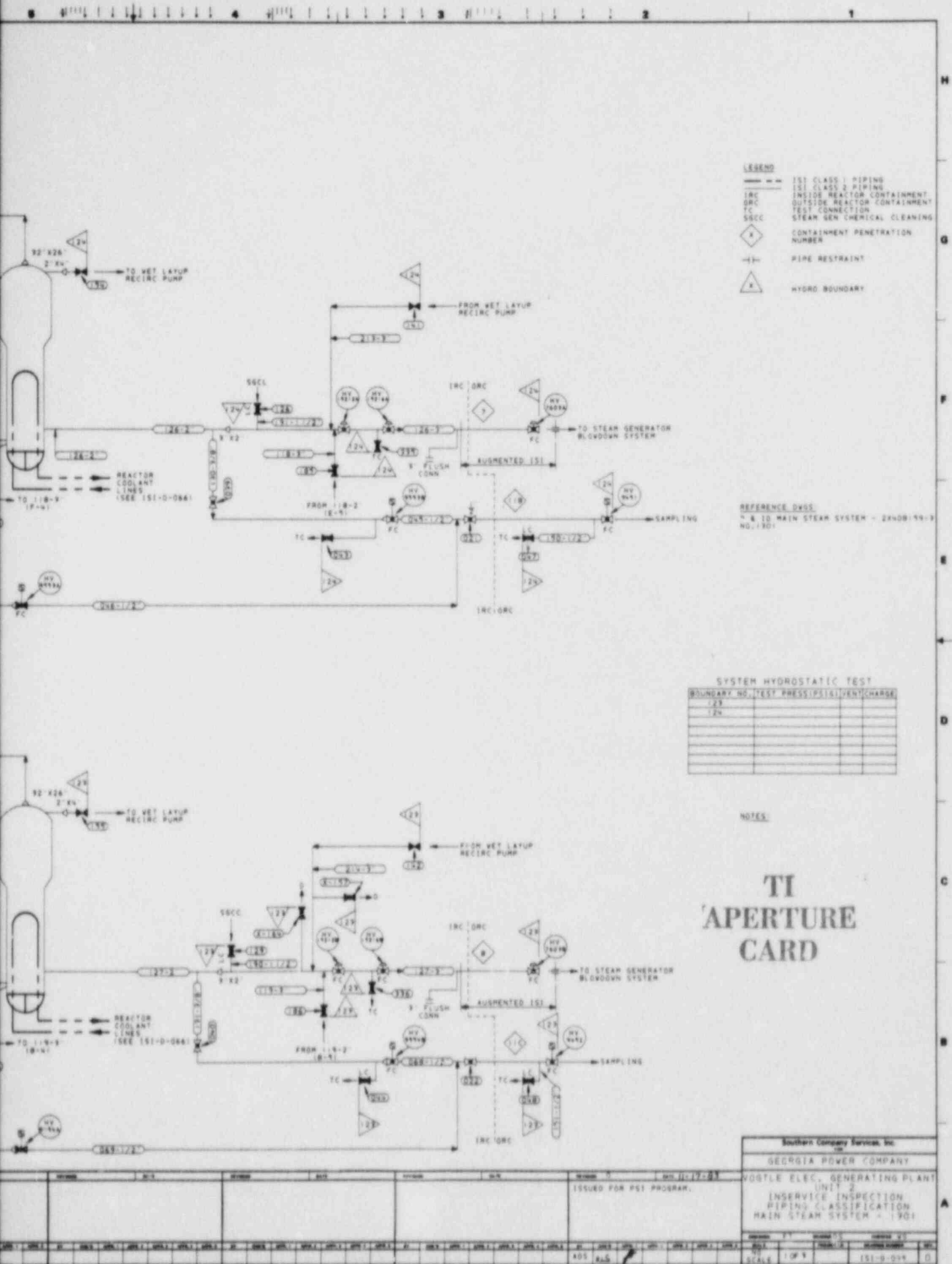
DRC IRC



STEAM GENERATOR  
2-1201-86-002



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
1	10/1/86	2	10/1/86	3	10/1/86	4	10/1/86
5	10/1/86	6	10/1/86	7	10/1/86	8	10/1/86
9	10/1/86	10	10/1/86	11	10/1/86	12	10/1/86
13	10/1/86	14	10/1/86	15	10/1/86	16	10/1/86
17	10/1/86	18	10/1/86	19	10/1/86	20	10/1/86
21	10/1/86	22	10/1/86	23	10/1/86	24	10/1/86
25	10/1/86	26	10/1/86	27	10/1/86	28	10/1/86
29	10/1/86	30	10/1/86	31	10/1/86	32	10/1/86
33	10/1/86	34	10/1/86	35	10/1/86	36	10/1/86
37	10/1/86	38	10/1/86	39	10/1/86	40	10/1/86
41	10/1/86	42	10/1/86	43	10/1/86	44	10/1/86
45	10/1/86	46	10/1/86	47	10/1/86	48	10/1/86
49	10/1/86	50	10/1/86	51	10/1/86	52	10/1/86
53	10/1/86	54	10/1/86	55	10/1/86	56	10/1/86
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61	10/1/86	62	10/1/86	63	10/1/86	64	10/1/86
65	10/1/86	66	10/1/86	67	10/1/86	68	10/1/86
69	10/1/86	70	10/1/86	71	10/1/86	72	10/1/86
73	10/1/86	74	10/1/86	75	10/1/86	76	10/1/86
77	10/1/86	78	10/1/86	79	10/1/86	80	10/1/86
81	10/1/86	82	10/1/86	83	10/1/86	84	10/1/86
85	10/1/86	86	10/1/86	87	10/1/86	88	10/1/86
89	10/1/86	90	10/1/86	91	10/1/86	92	10/1/86
93	10/1/86	94	10/1/86	95	10/1/86	96	10/1/86
97	10/1/86	98	10/1/86	99	10/1/86	100	10/1/86



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FROM DEMINERALIZED WATER STORAGE TANK

TO OR FROM CONDENSATE FEEDWATER SYSTEM

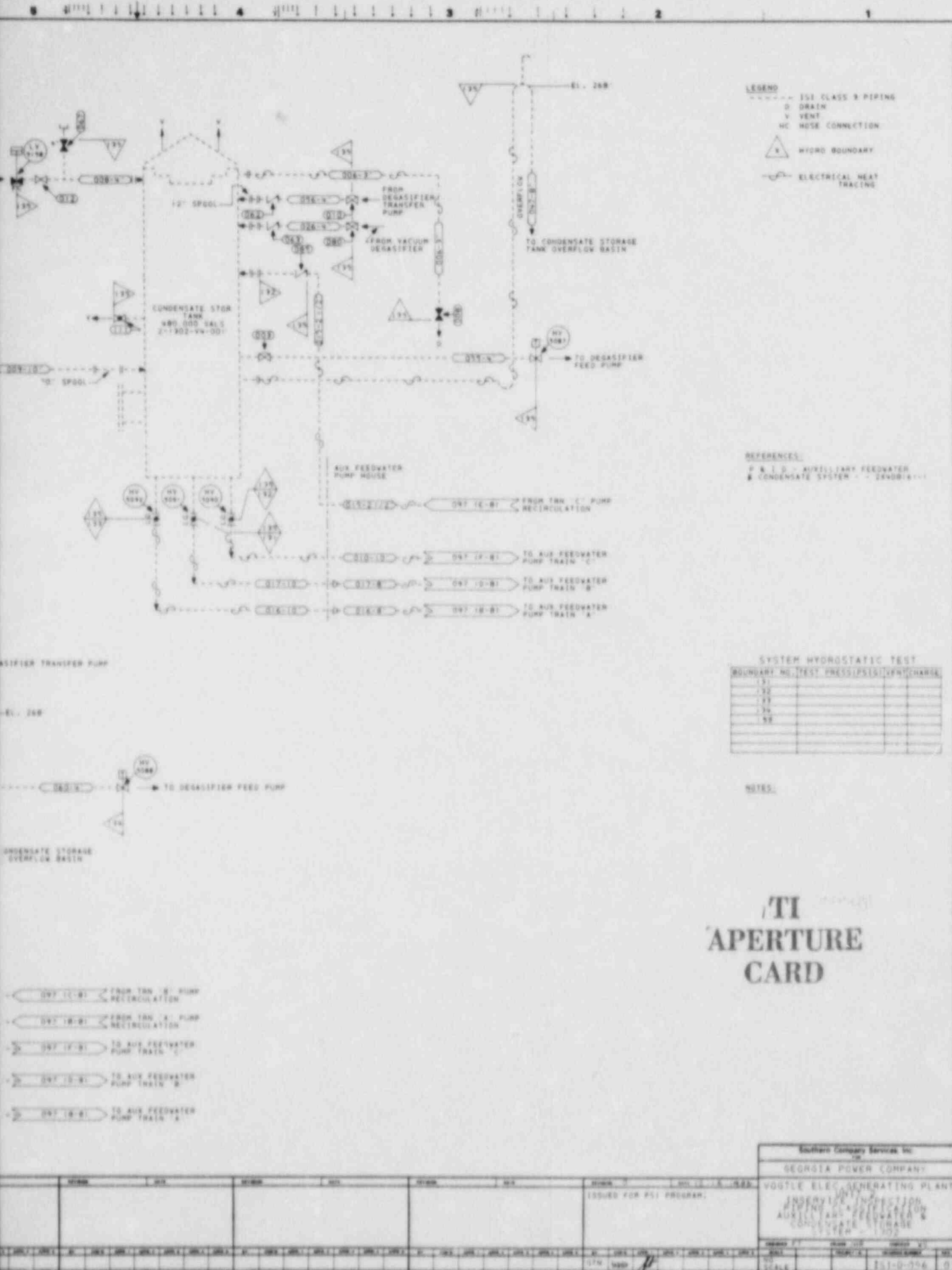
FROM DEMINERALIZED WATER STORAGE TANK

TO OR FROM  
CONDENSATE  
FEEDWATER  
SYSTEM

CONDENSATE STOR  
TANK  
140,000 GALS  
2-1902-44-002

AUX FEEDWATER  
PUMP HOUSE

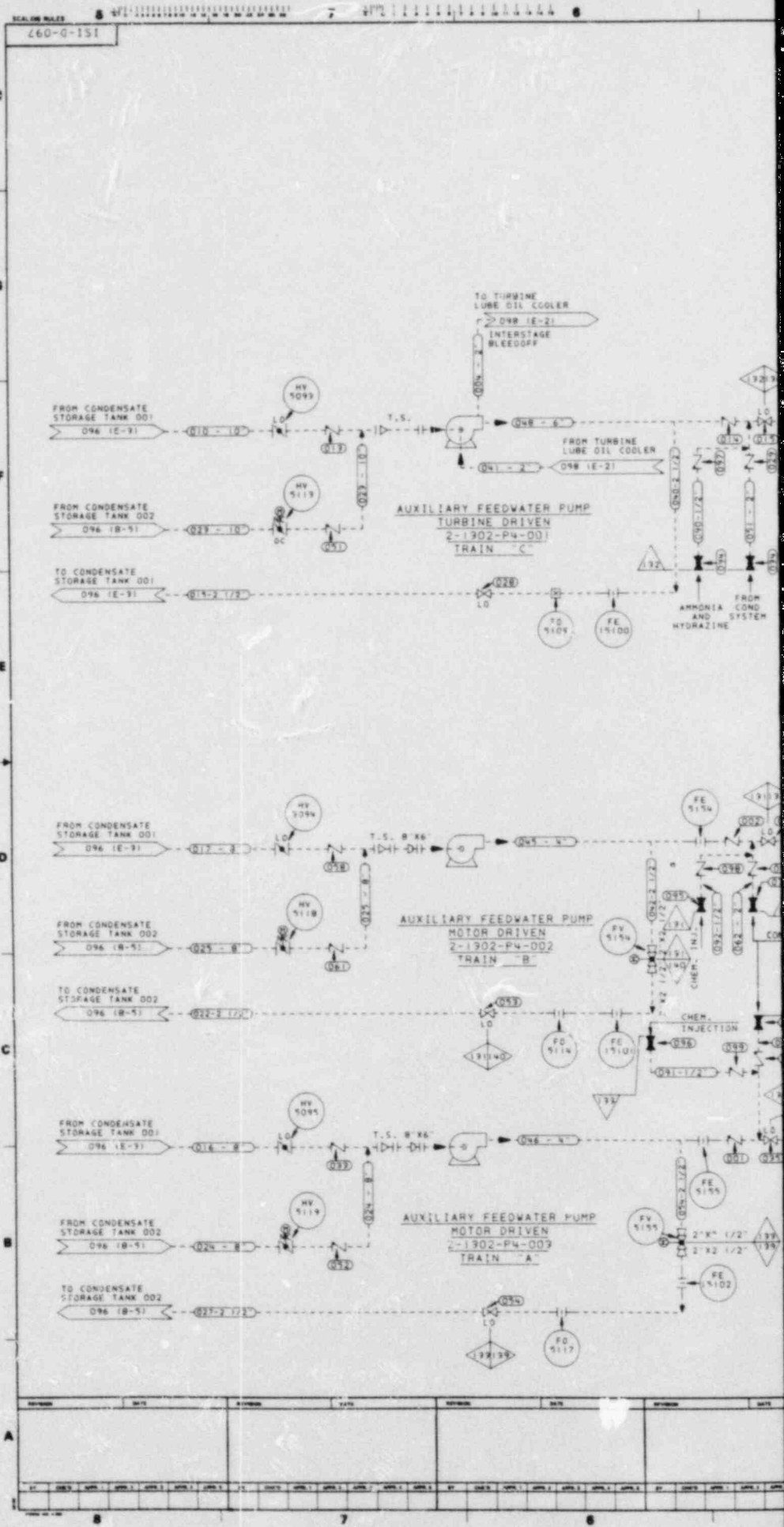
SECTION	201	SECTION	202	SECTION	203	SECTION	204
1	2	3	4	5	6	7	8

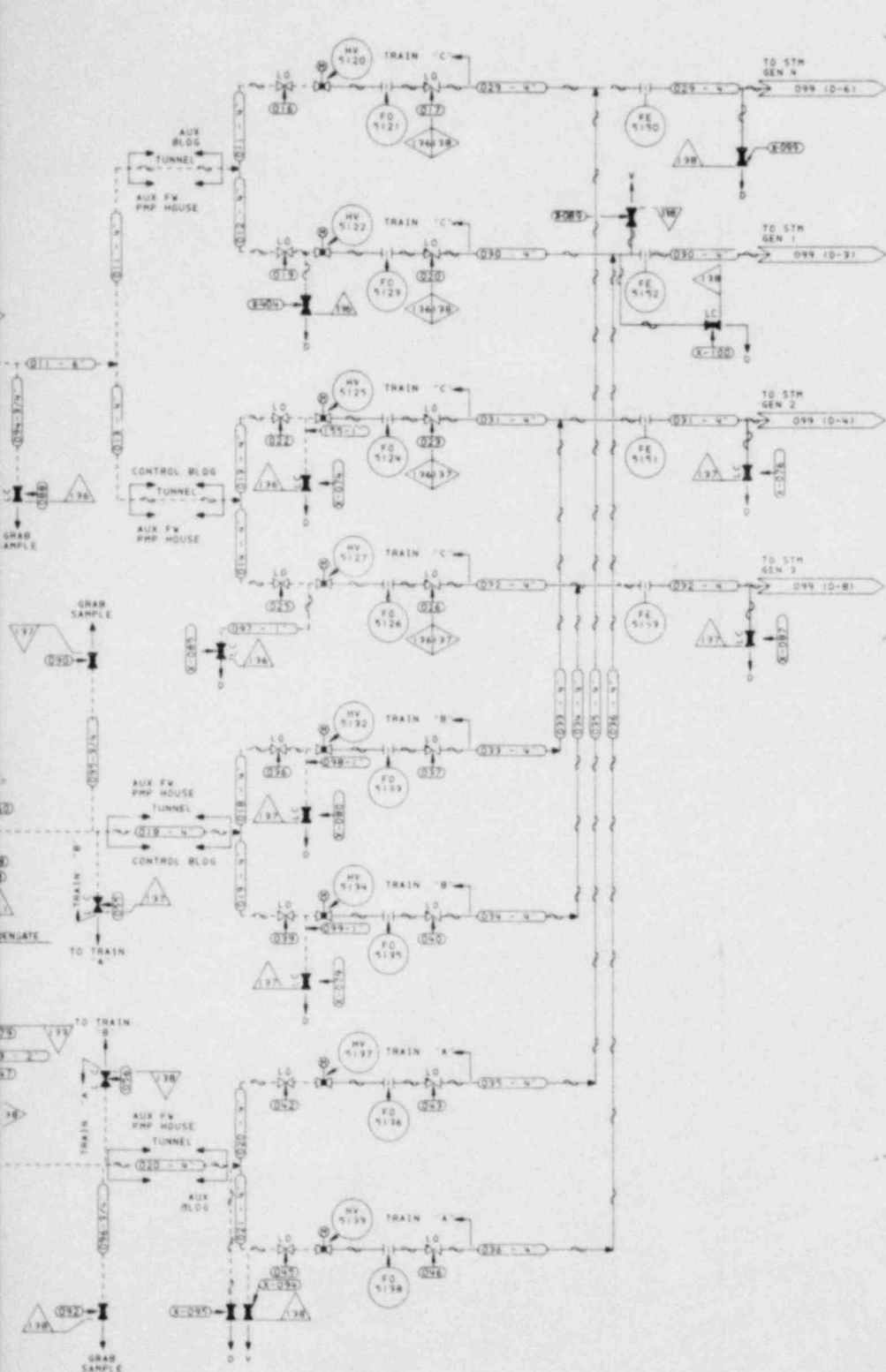


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LEGEND:  
 --- ISI CLASS 2 PIPING  
 --- ISI CLASS 3 PIPING  
 D DRAIN  
 T.S. TEMPORARY STRAINER  
 X HYDRO BOUNDARY  
 --- ELEC HEAT TRACING

TO BYPASS  
FEEDWATER  
LINE

REFERENCE DWGS.  
 PAID: AUX FEEDWATER SYSTEM NO.1902-ZXNDWMI-2

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS. (PSIG)	VENT	CHARGE
191			
192			
193			
194			
195			
196			
197			
198			
199			
200			

NOTES:  
 1. REMOVE DISCS FROM CHECK VALVES  
 NUMBERS 019, 051, 058, 061, 079  
 AND 052 IN PUMP SUCTION LINES.

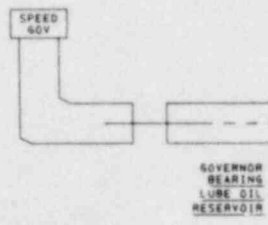
TI  
APERTURE  
CARD

Southern Company Services, Inc.											
GEORGIA POWER COMPANY											
VOGTLE ELEC. GENERATING PLANT UNIT NO.2											
INSERVICE INSPECTION PIPING CLASSIFICATION											
AUXILIARY FEEDWATER-SYS. 1902											
ISSUED FOR PSI PROGRAM											
DATE 12-29-85											
REVISION 1											
BY RVK											
NONE											
ISI-D-097.0											

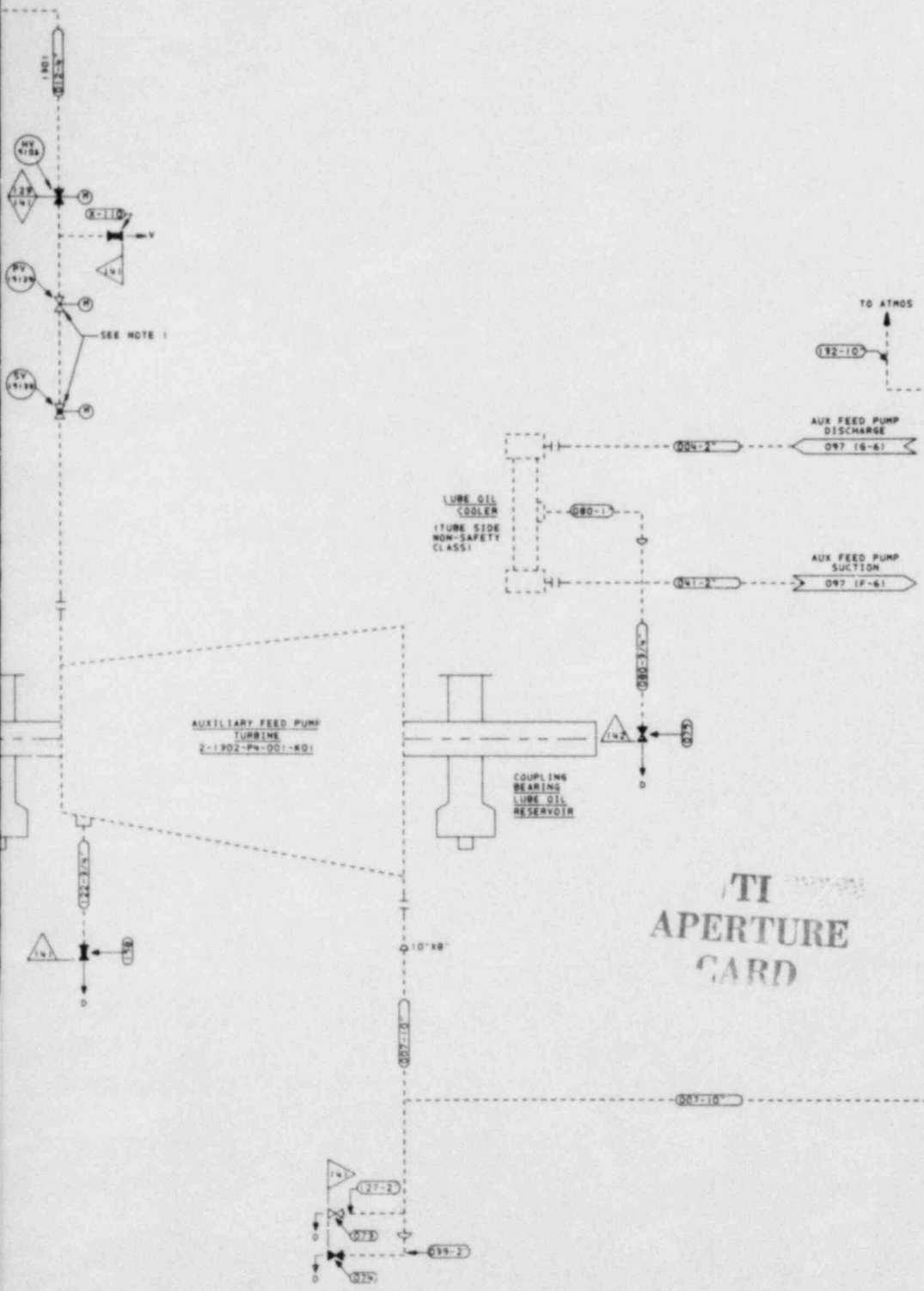
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4

[illegible]

Also Available On  
Aperture Card



LEGEND:  
 ISI CLASS 3 PIPING  
 MOTOR OPERATED  
 DRAIN  
 VENT  
 HYDRO BOUNDARY

REFERENCES:  
 P & ID AUX FEEDWATER PUMP SYSTEM  
 2X40P161-9  
 P & ID MAIN STEAM SYSTEM NO. 1901  
 2X40B159-2

SYSTEM HYDROSTATIC TEST

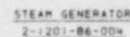
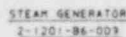
BOUNDARY NO.	TEST PRESS (PSIG)	VENT	CHARGE
123			
124			
125			
126			
127			
128			
129			
130			
131			
132			

NOTES:  
 1. VALVE SV-1712 HAS AN INTERGRAL FLOW ORIFICE THAT CANNOT BE ISOLATED. NO HYDRO PAST VALVE PH-1712 IS REQUIRED. OPEN ENDED TO ATMOSPHERE.

TI  
APERTURE  
CARD

Southern Company Services, Inc.											
GEORGIA POWER COMPANY											
VOGTLE ELECTRIC GENERATING PLANT - UNIT NO. 2											
INSERVICE INSPECTION PIPING CLASSIFICATION											
AUX FEEDWATER PUMP SYSTEM - 1902											
ISSUED FOR PSI PROGRAM.											
DATE: 7.4.1988											
REVISION: 0											
SCALE: 1" = 10'-0"											
NO. 1											
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REVENUE		DATE						REVENUE		DATE						REVENUE		DATE						REVENUE		DATE																													
A																																																							
BT	CODE	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	BT	CODE	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	BT	CODE	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	BT	CODE	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6																								
TOTAL														TOTAL														TOTAL														TOTAL													
TOTAL														TOTAL														TOTAL														TOTAL													



Also Available On  
Aperture Card

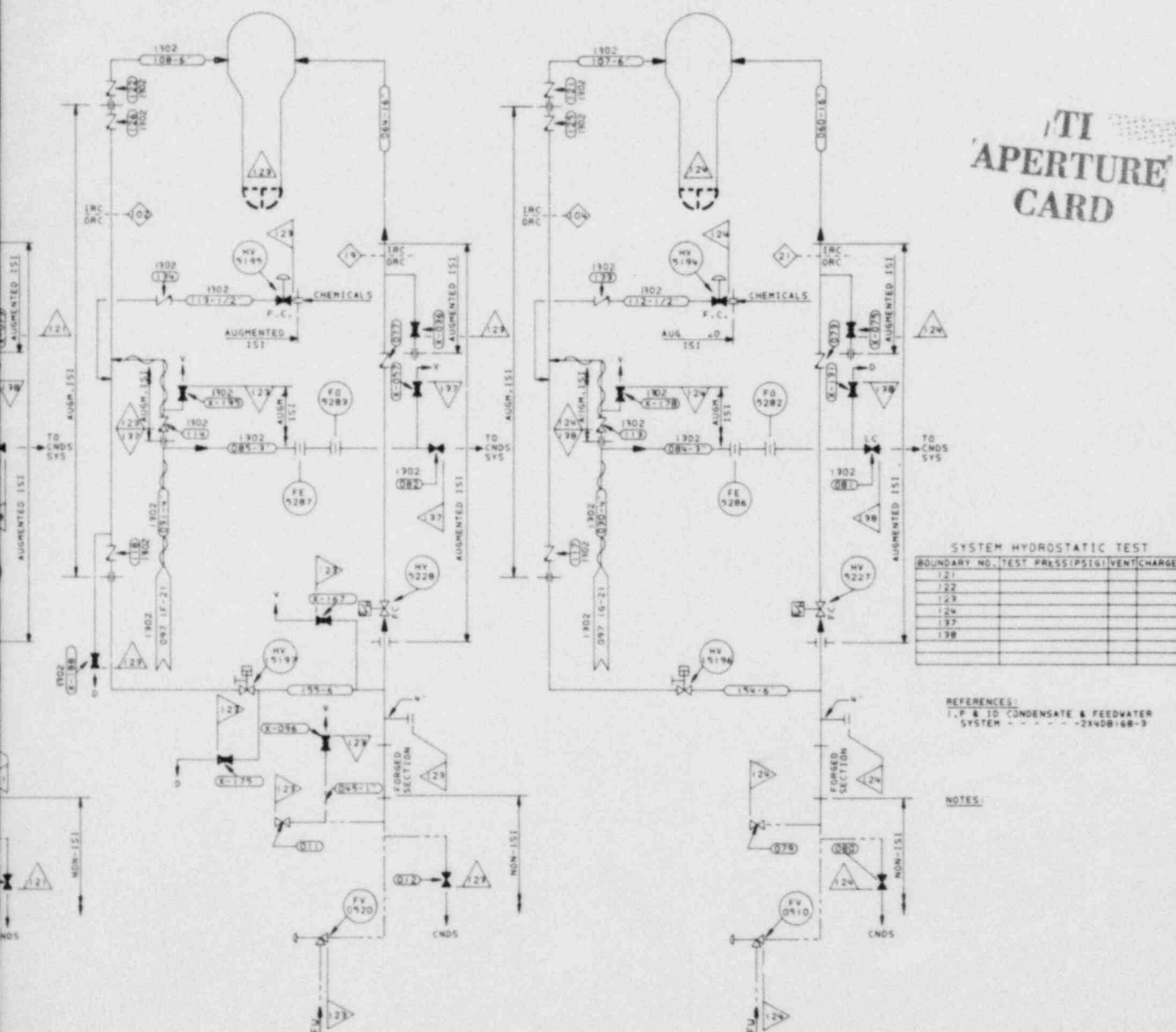
LEGEND

- IS1 CLASS 1 PIPING
- IS1 CLASS 2 PIPING
- NON-IS1 CLASS
- ◇ CONTAINMENT PENETRATION
- IRC INSIDE REACTOR CONTAINMENT
- ORC OUTSIDE REACTOR CONTAINMENT
- CNDOS CONDENSATE SYSTEM
- PIPE RESTRAINT
- ELECTRICAL HEAT TRACING
- △ HYDRO BOUNDARY
- FW FEEDWATER

TI  
APERTURE  
CARD

STEAM GENERATOR  
2-1201-86-002

STEAM GENERATOR  
2-1201-86-001



SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS	PSI	VENT	CHARGE
121				
122				
123				
124				
127				
128				

REFERENCES:  
I.P. & ID CONDENSATE & FEEDWATER  
SYSTEM - - - - - 2X400160-3

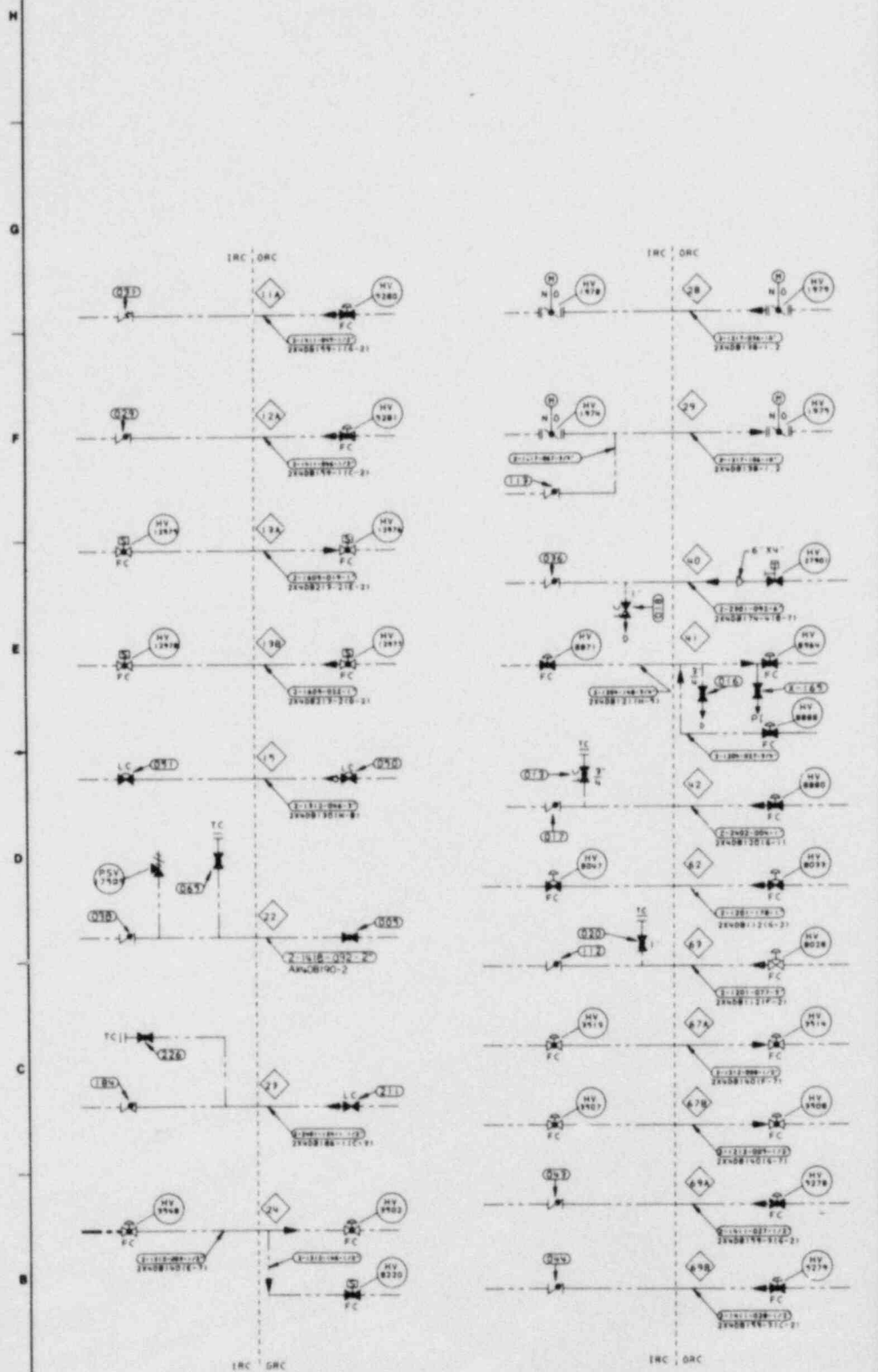
NOTES:

Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOGTLÉ ELECTRIC GENERATING PLANT - UNIT 2			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
CONDENSATE & FEEDWATER SYSTEM - 1905			
PREPARED BY	DESIGNED BY	CHECKED BY	APP.
NO.	SCALE	PROJECT NO.	REVISION NUMBER
1	1:1	151-D-099	0

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901-0-151

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