

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

ISI-P-002

PRESERVICE INSPECTION PROGRAM
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1

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PRESERVICE INSPECTION PROGRAM
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1

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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 1 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.

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Table IWB-2500-1 Examination Categories

B-A, PRESSURE RETAINING WELDS IN REACTOR VESSEL¹

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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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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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-2500-7 ²	UT				
11	B3.100	Nozzle Inside Radius Section	IWB-2500-7 ²	UT				
12	B3.110	<u>Pressurizer</u> Nozzle-to-Vessel Welds	IWB-2500-7 ²	UT				
13	B3.120	Nozzle Inside Radius Section	IWB-2500-7 ²	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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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	Vicual		
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 ³ .
17	B4.13	Instrumentation Nozzles	External Surfaces			N/A		N/A to PSI ³ .
18	B4.20	Pressurizer Heater Penetration Welds	External Surfaces			N/A		N/A to PSI ³ .

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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 ≥ 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 ≥ 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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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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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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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>						
23	B6.20	Closure Head Nuts	Later		MT/PT			
		Closure Studs	IWB-2500-12	UT				Perform 23 or 24.
24	B6.30	(in place)						
		Closure Studs	IWB-2500-12	UT	MT/PT			Perform 23 or 24.
		(removed)						
25	B6.40	Threads in Flange	IWB-2500-12	UT				
26	B6.50	Closure Washers, Bushings	Surfaces			VT-1		
		<u>Pressurizer</u>						
N/A	B6.60	Bolts and Studs	IWB-2500-12	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.70	Flange Surface	Surfaces	N/A	N/A	N/A		N/A to VEGP.
		(when connection disassembled)						
N/A	B6.80	Nuts, Bushings, and Washers	Surfaces	N/A	N/A	N/A		N/A to VEGP.
		<u>Steam Generators</u>						
N/A	B6.90	Bolts and Studs	IWB-2500-12	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.100	Flange Surface	Surfaces	N/A	N/A	N/A		N/A to VEGP.
		(when connection disassembled)						
N/A	B6.110	Nuts, Bushings, and Washers	Surfaces	N/A	N/A	N/A		N/A to VEGP.

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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	<u>Heat Exchangers</u> Bolts and Studs	IWB-2500-12	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.130	Flange Surface (when connection disassembled)	Surfaces	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	<u>Piping</u> Bolts and Studs	IWB-2500-12	N/A	N/A	N/A		N/A to VEGP.
N/A	B6.160	Flange Surface (when connection disassembled)	Surfaces	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	<u>Pumps</u> Bolts and Studs	IWB-2500-12	UT				
28	B6.190	Flange Surface (when connection disassembled)	Surfaces			VT-1		
29	B6.200	Nuts, Bushings, and Washers	Surfaces			VT-1		

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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	<u>Valves</u>	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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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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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	<u>Reactor Vessel</u> Integrally Welded Attachments	IWB-2500-13, 14, and 15	N/A	N/A	N/A		N/A to VEGP.
36	B8.20	<u>Pressurizer</u> Integrally Welded Attachments	IWB-2500-13 and 15		PT/MT			Figure IWB-2500-14 N/A to VEGP.
N/A	B8.30	<u>Steam Generator</u> Integrally Welded Attachments	IWB-2500-13, 14, and 15	N/A	N/A	N/A		N/A to VEGP.
N/A	B8.40	<u>Heat Exchangers</u> Integrally Welded Attachments	IWB-2500-13, 14, and 15	N/A	N/A	N/A		N/A to VEGP.

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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 ≥ 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 ≥ 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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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 ⁴ .
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 ⁴ .
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 ⁴ .

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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 ⁵ .

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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 (BWR)</u> 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 (PWR)</u> Core Support Structure	Accessible Welds Accessible Surfaces			VT-3 VT-3		

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Vogtle Electric Generating Plant Unit No. 1

Preservice Inspection

Table IWB-2500-1 Examination Categories

B-O, 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		
48	B14.10	Reactor Vessel Welds in CRD Housing	IWB-2500-18	UT or	PT/MT			See figure IWB-1500-18 for appropriate examination methods.

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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 Retaining Boundary	System Leakage Test IWB-5221			N/A		N/A to PSI ⁶ .
50	B15.11	Pressure Retaining Boundary	System Hydrotest IWB-5222			N/A		N/A to PSI ⁶ .
51	B15.20	<u>Pressurizer</u> Pressure Retaining Boundary	System Leakage Test IWB-5221			N/A		N/A to PSI ⁶ .
52	B15.21	Pressure Retaining Boundary	System Hydrotest IWB-5222			N/A		N/A to PSI ⁶ .
53	B15.30	<u>Steam Generators</u> Pressure Retaining Boundary	System Leakage Test IWB-5221			N/A		N/A to PSI ⁶ .
54	B15.31	Pressure Retaining Boundary	System Hydrotest IWB-5222			N/A		N/A to PSI ⁶ .
N/A	B15.40	<u>Heat Exchangers</u> Pressure Retaining Boundary	System Leakage Test IWB-5221	N/A	N/A	N/A		N/A to VEGP.
N/A	B15.41	Pressure Retaining Boundary	System Hydrotest IWB-5222	N/A	N/A	N/A		N/A to VEGP.

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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 Retaining Boundary	System Leakage Test IWB-5221			N/A		N/A to PSI ⁶ .
56	B15.51	Pressure Retaining Boundary	System Hydrotest IWB-5222			N/A		N/A to PSI ⁶ .
57	B15.60	<u>Pumps</u> Pressure Retaining Boundary	System Leakage Test IWB-5221			N/A		N/A to PSI ⁶ .
58	B15.61	Pressure Retaining Boundary	System Hydrotest IWB-5222			N/A		N/A to PSI ⁶ .
59	B15.70	<u>Valves</u> Pressure Retaining Boundary	System Leakage Test IWB-5221			N/A		N/A to PSI ⁶ .
60	B15.71	Pressure Retaining Boundary	System Hydrotest IWB-5222			N/A		N/A to PSI ⁶ .

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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.

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. 1

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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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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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 ¹	IWC-2500-5		PT/MT			
7	C3.40	<u>Piping</u> Integrally Welded Attachments ¹	IWC-2500-5		PT/MT			
8	C3.70	<u>Pumps</u> Integrally Welded Attachments ¹	IWC-2500-5		PT/MT			
N/A	C3.100	<u>Valves</u> Integrally Welded Attachments ¹	IWC-2500-5	N/A	N/A	N/A		N/A to VEGP.

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Vogtle Electric Generating Plant Unit No. 1

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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Preservice Inspection

Table IWC-2500-1 Examination Categories

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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 ²	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 ²	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 ²	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 ³ .

Vogtle Electric Generating Plant Unit No. 1

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.

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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		
14	C7.10	<u>Pressure Vessels</u> Pressure Retaining Components	IWC-5221 Test			N/A		N/A to PSI 5.
15	C7.11	Pressure Retaining Components	IWC-5222 Test			N/A		N/A to PSI 4,5.
16	C7.20	<u>Piping</u> Pressure Retaining Components	IWC-5221 Test			N/A		N/A to PSI 5.
17	C7.21	Pressure Retaining Components	IWC-5222 Test			N/A		N/A to PSI 4,5.
18	C7.30	<u>Pumps</u> Pressure Retaining Components	IWC-5221 Test			N/A		N/A to PSI 5.
19	C7.31	Pressure Retaining Components	IWC-5222 Test			N/A		N/A to PSI 4,5.
20	C7.40	<u>Valves</u> Pressure Retaining Components	IWC-5221 Test			N/A		N/A to PSI 5.
21	C7.41	Pressure Retaining Components	IWC-5222 Test			N/A		N/A to PSI 4,5.

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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° 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 ASME Code, 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. 1

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 ¹	IWA-5000/ IWD-5221 IWA-5000/ IWD-5223			N/A N/A		N/A to PSI ² . N/A to PSI ^{2,3} .
2	D1.20	Integral Attachment Component Supports and Restraints ⁴	IWD-2500-1			VT-3		
3	D1.30	Integral Attachment Mechanical and Hydraulic Snubbers ⁴	IWD-2500-1			VT-3		
4	D1.40	Integral Attachment Spring Type Supports ⁴	IWD-2500-1			VT-3		
5	D1.50	Integral Attachment Constant Load Type Supports ⁴	IWD-2500-1			VT-3		

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Vogtle Electric Generating Plant Unit No. 1

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 ⁴	IWD-2500-1			VT-3		

Vogtle Electric Generating Plant Unit No. 1

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 ¹	IWA-5000/ IWD-5221 IWA-5000/ IWD-5223			N/A N/A N/A		N/A to PSI ² . N/A to PSI ^{2,3} .
8	D2.20	Integral Attachment Component Supports and Restraints ⁴	IWD-2500-1			VT-3		
9	D2.30	Integral Attachment Mechanical and Hydraulic Snubbers ⁴	IWD-2500-1			VT-3		
10	D2.40	Integral Attachment Spring Type Supports ⁴	IWD-2500-1			VT-3		
11	D2.50	Integral Attachment Constant Load Type Supports ⁴	IWD-2500-1			VT-3		

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Vogtle Electric Generating Plant Unit No. 1

Preservice Inspection

Table IWD-2500-1 Examination Categories

D-B, 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		
12	D2.60	Integral Attachment Shock Absorbers ⁴	IWD-2500-1			VT-3		

Vogtle Electric Generating Plant Unit No. 1

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 ¹	IWA-5000/ IWD-5221 IWA-5000/ IWD-5223			N/A N/A		N/A to PSI ² . N/A to PSI ^{2,3} .
14	D3.20	Integral Attachment Component Supports and Restraints ⁴	IWD-2500-1			VT-3		
15	D3.30	Integral Attachment Mechanical and Hydraulic Snubbers ⁴	IWD-2500-1			VT-3		
16	D3.40	Integral Attachment Spring Type Supports ⁴	IWD-2500-1			VT-3		
17	D3.50	Integral Attachment Constant Load Type Supports ⁴	IWD-2500-1			VT-3		

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Vogtle Electric Generating Plant Unit No. 1

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 ⁴	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. 1

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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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	F2.10	Mechanical Connections to Pressure Retaining Components and Building Structure	IWF-1300-1			VT-3		
6	F2.20	Weld Connections to Building Structure	IWF-1300-1			VT-3		
7	F2.30	Weld and Mechanical Connections at Intermediate Joints in Multiconnected Integral and Nonintegral Supports	IWF-1300-1			VT-3		
8	F2.40	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. 1

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. 1

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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002 REV 0

6.0 ISI PIPING CLASSIFICATIONS DRAWINGS

6.1 Purpose

The purpose of this section is to define the scope of preservice examinations at VEGP-Unit 1. 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.

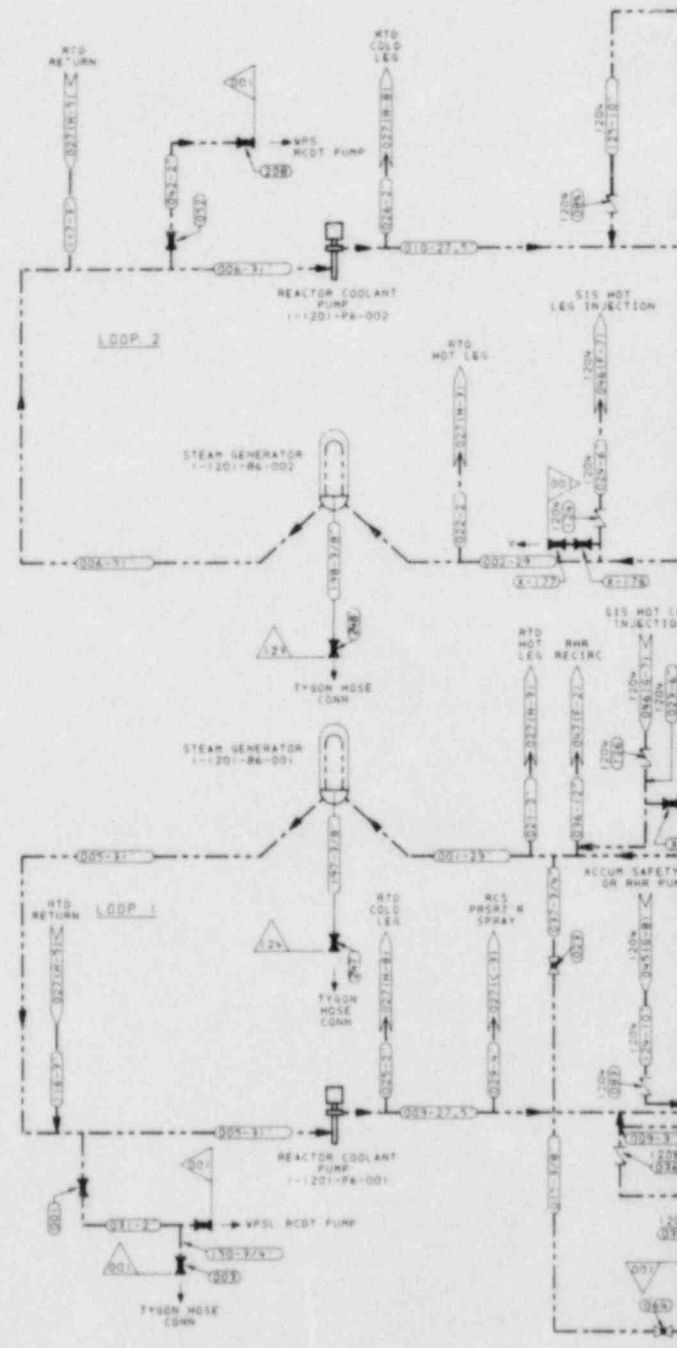
These drawings reference the piping and instrumentation diagrams (P&ID's) for each system as follows:

<u>System</u>	<u>ISI Classification Drawings ISI-D-</u>	<u>Piping and Instrumentation Diagrams 1X4DB-</u>
Reactor Coolant	026	111
	027	111, 112, 113, 140
Chemical and Volume Control	028	112, 114
	029	115, 117, 140
	030	116-1
	031	116-2
	032	118
	033	115, 116-1, 148
Nuclear Service Cooling Water	034	133-1
	035	133-2
	036	134
	037	135-1, 170
	038	135-2
Safety-Related (ESF) Chillers	039	233
	040	234
	041	221
Component Cooling Water	042	136
	043	137

<u>System</u>	ISI Classification Drawings <u>ISI-D-</u>	Piping and Instrumentation Diagrams <u>1X4DB-</u>
Safety Injection	044 045 046	119 120 121
Residual Heat Removal	047	122
Containment Spray	048	131
Spent Fuel Cooling and Purification	049	130
Main Steam	053 054 055	159-1 159-2 159-3
Auxiliary Feedwater and Condensate Storage	056 057 058	161-1 161-2 159-2, 161-3
Condensate and Feedwater	059	168-3
Penetrations	060	See note 1.

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

H
G
F
E
D
C
B
A



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
1	10/1/77	2	10/1/77	3	10/1/77	4	10/1/77
5	10/1/77	6	10/1/77	7	10/1/77	8	10/1/77

Also Available On
Aperture Card

LEGEND:
 --- ISI CLASS 1 PIPING
 --- ISI CLASS 2 PIPING
 --- ISI CLASS 3 PIPING
 --- SAFETY INJECTION SYSTEM
 --- RESISTANT TEMP DETECTOR
 --- REACTOR COOLANT SYSTEM
 --- WASTE PROCESSING SYSTEM LIQUID
 --- CHEMICAL & VOLUME CONT SYSTEM
 --- VENT
 --- DRAIN
 --- RCDT REACTOR COOLANT DRAIN TANK
 --- TC TEST CONNECTION
 △ HYDRO BOUNDARY

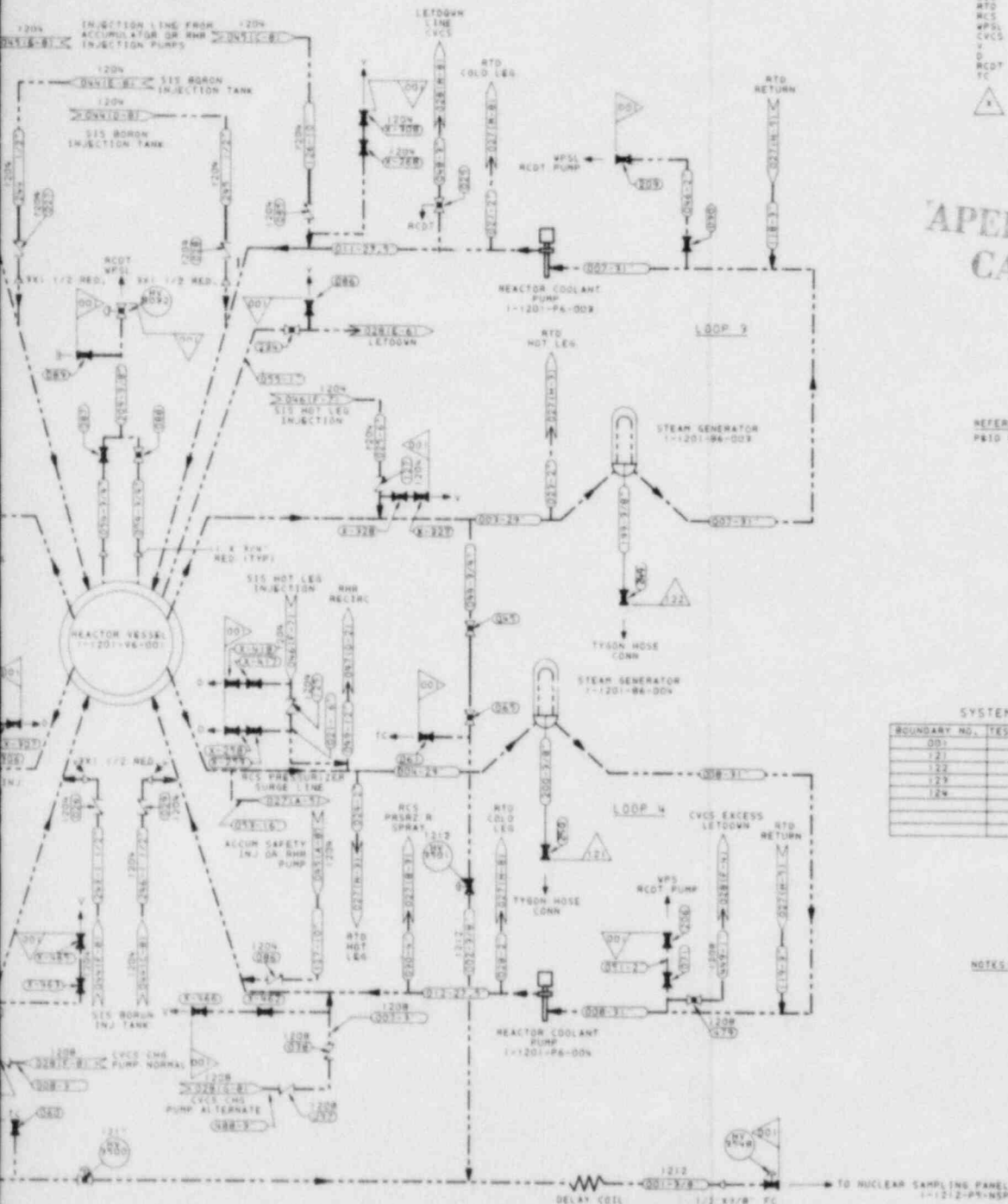
TI APERTURE CARD

REFERENCES:
 PRD REACTOR COOLANT SYSTEM - (X40011)

SYSTEM HYDROSTATIC TEST

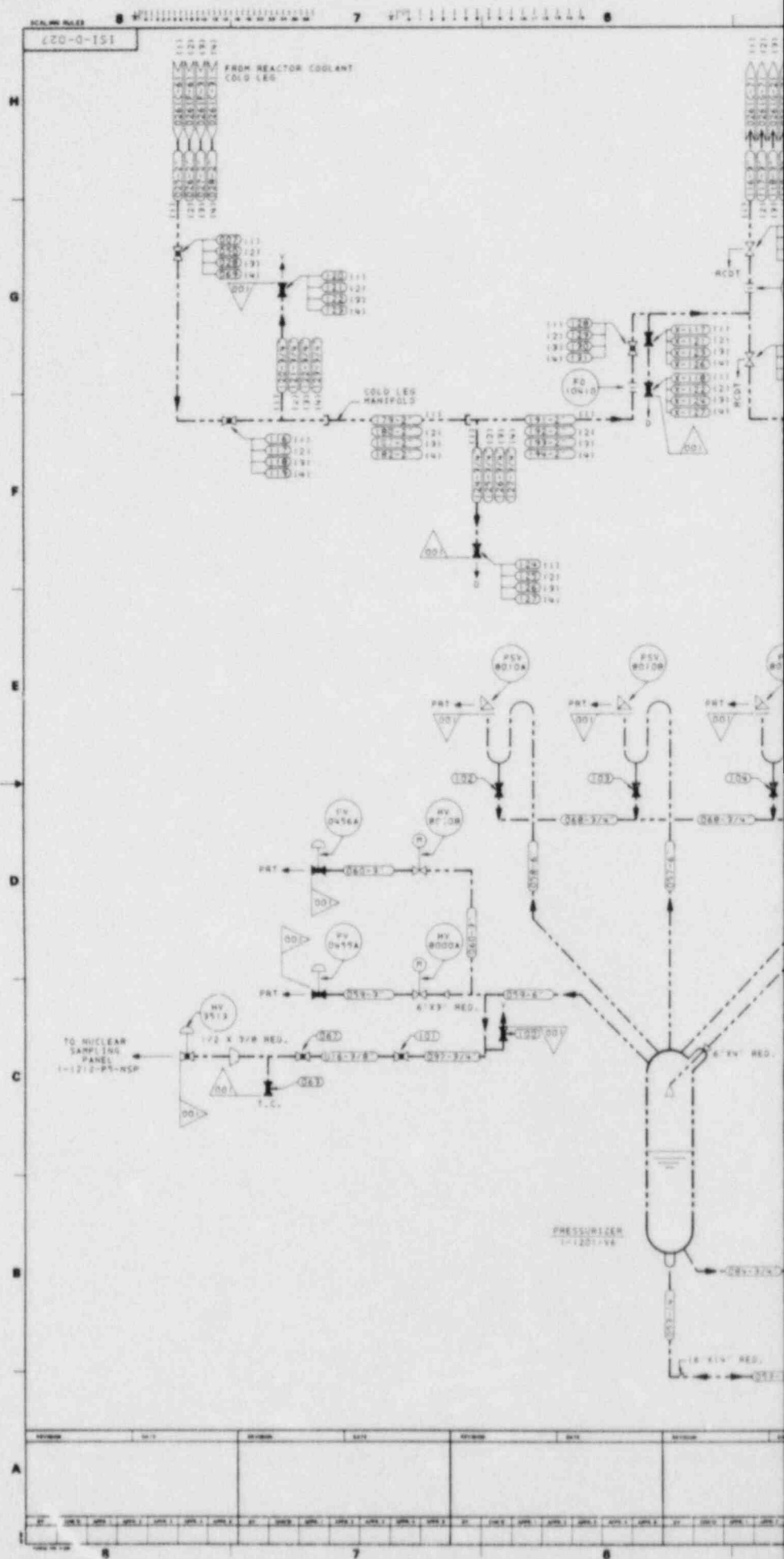
BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
001			
121			
122			
123			
124			

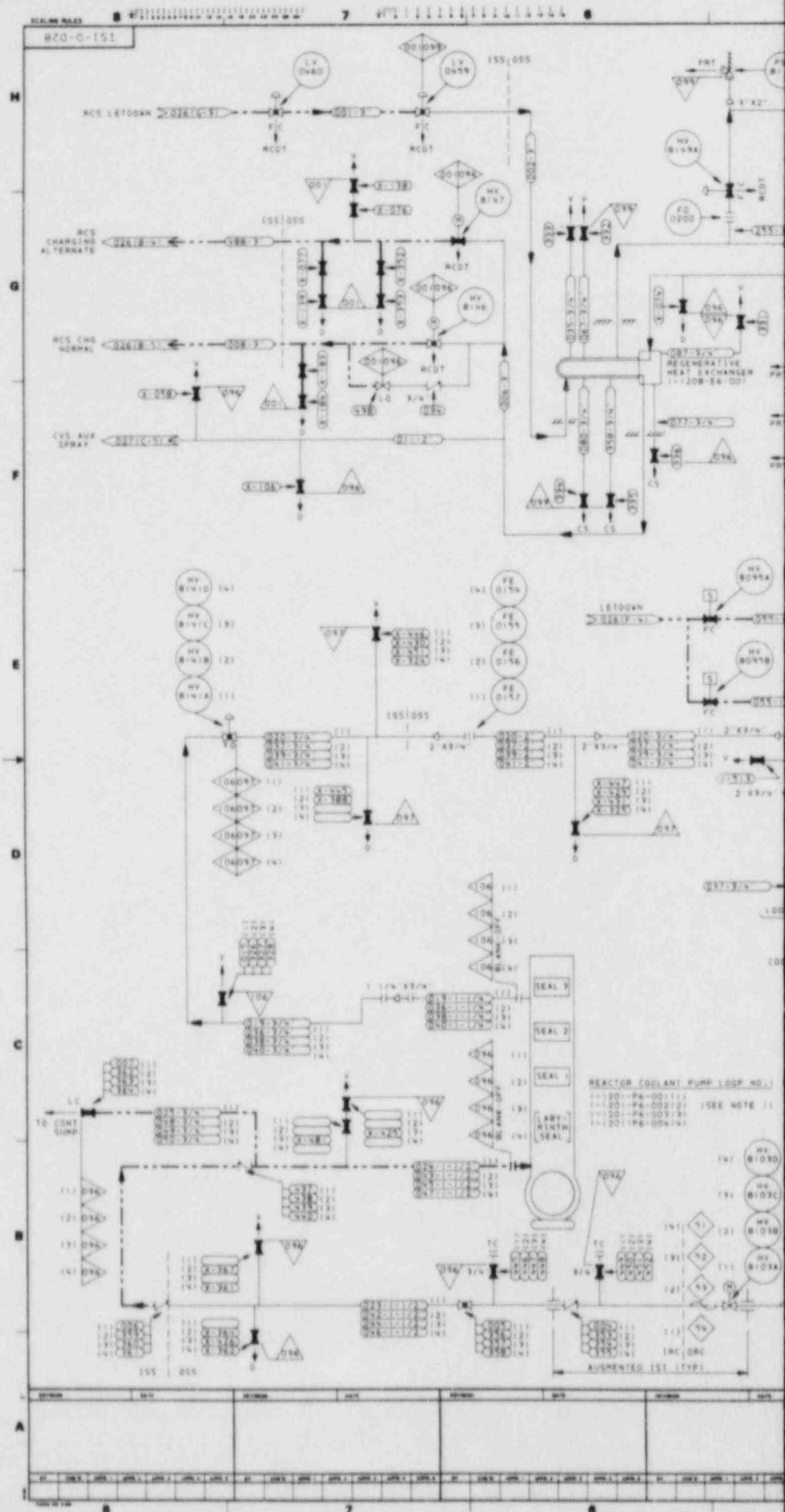
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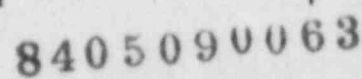


Southern Company Services, Inc.	
GEORGIA POWER COMPANY	
VOSTLE ELEC GENERATING PLANT UNIT	
INSERVICE INSPECTION PIPING CLASSIFICATION	
REACTOR COOLANT SYSTEM 1201	
REVISION	DATE
1	12-1-68
2	12-1-68
3	12-1-68
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95	12-1-68
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97	12-1-68
98	12-1-68
99	12-1-68
100	12-1-68

8405090063 - 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
- △ - HYDRO BOUNDARY

REFERENCES:

1. PAID DIAGRAM CHEMICAL AND VOLUME CONTROL SYSTEM NO. 1208

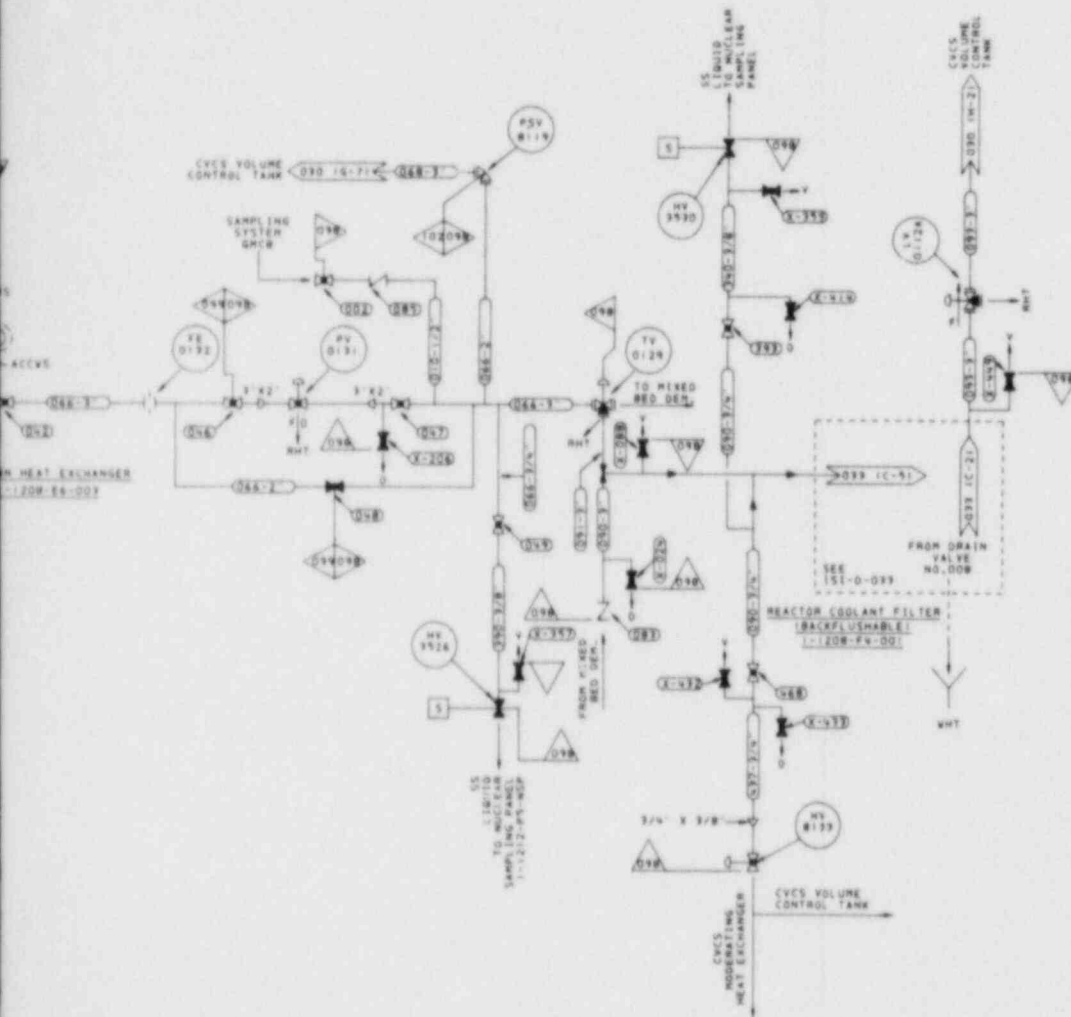
1X408:14
1:1
1M0

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
098			
099			
102			

NOTES

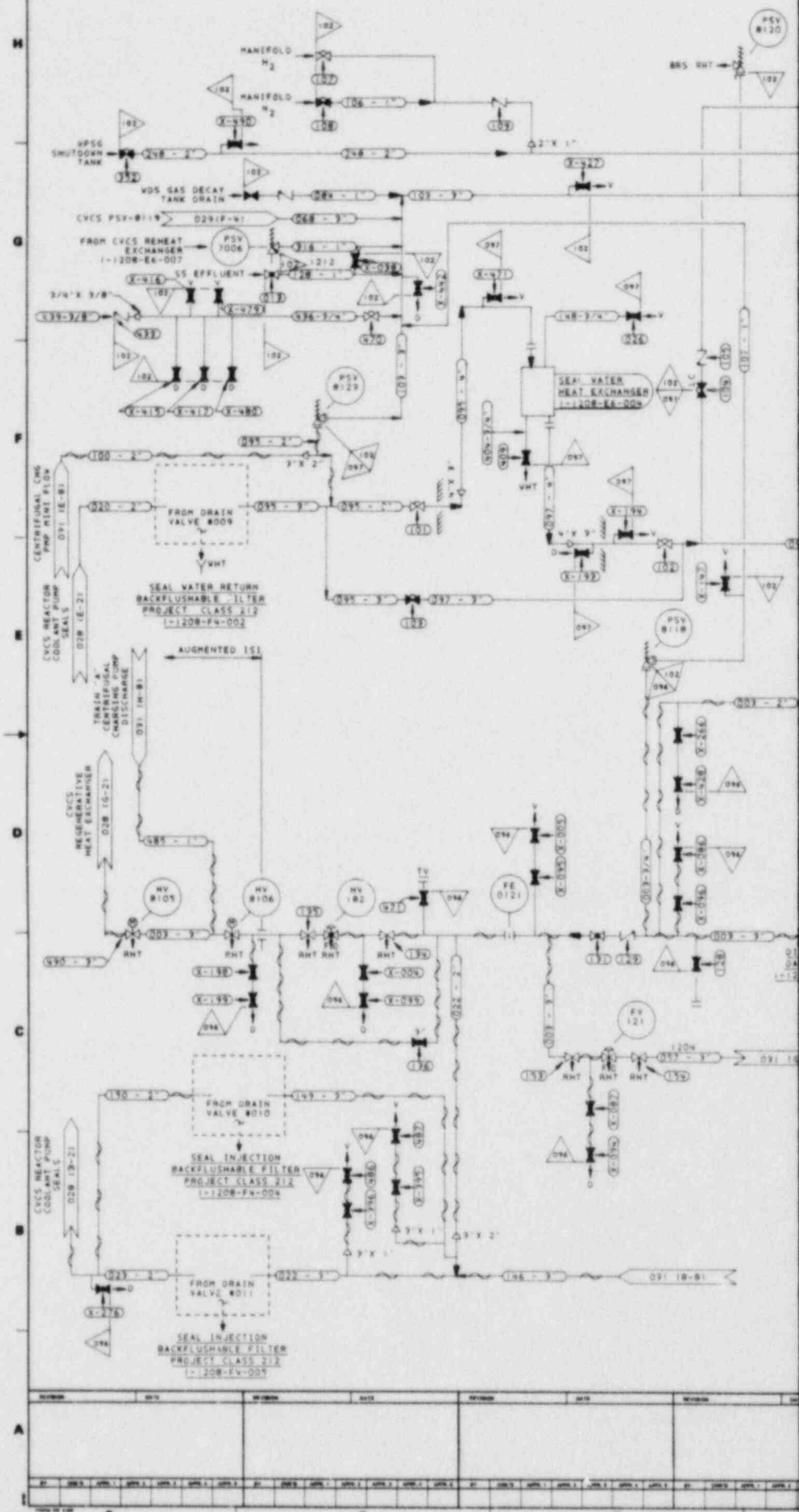
TI
APERTURE
CARD



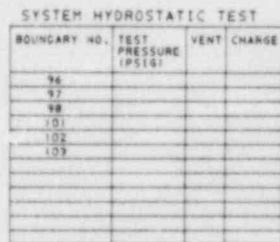
Southern Company Services, Inc.											
GEORGIA POWER COMPANY											
VOGTLE ELEC GENERATING PLANT											
UNIT 1											
INSERVICE INSPECTION											
PIPING CLASSIFICATION											
CHEM & VOL CONT-SYS NO. 1208											
ISSUED FOR PSI PROGRAM											
DATE: 8-29-87											
DRAWN: J.T. CHECKED: J.T. DESIGNED: J.T. APPROVED: J.T.											
SCALE: 1:1											

8405090063

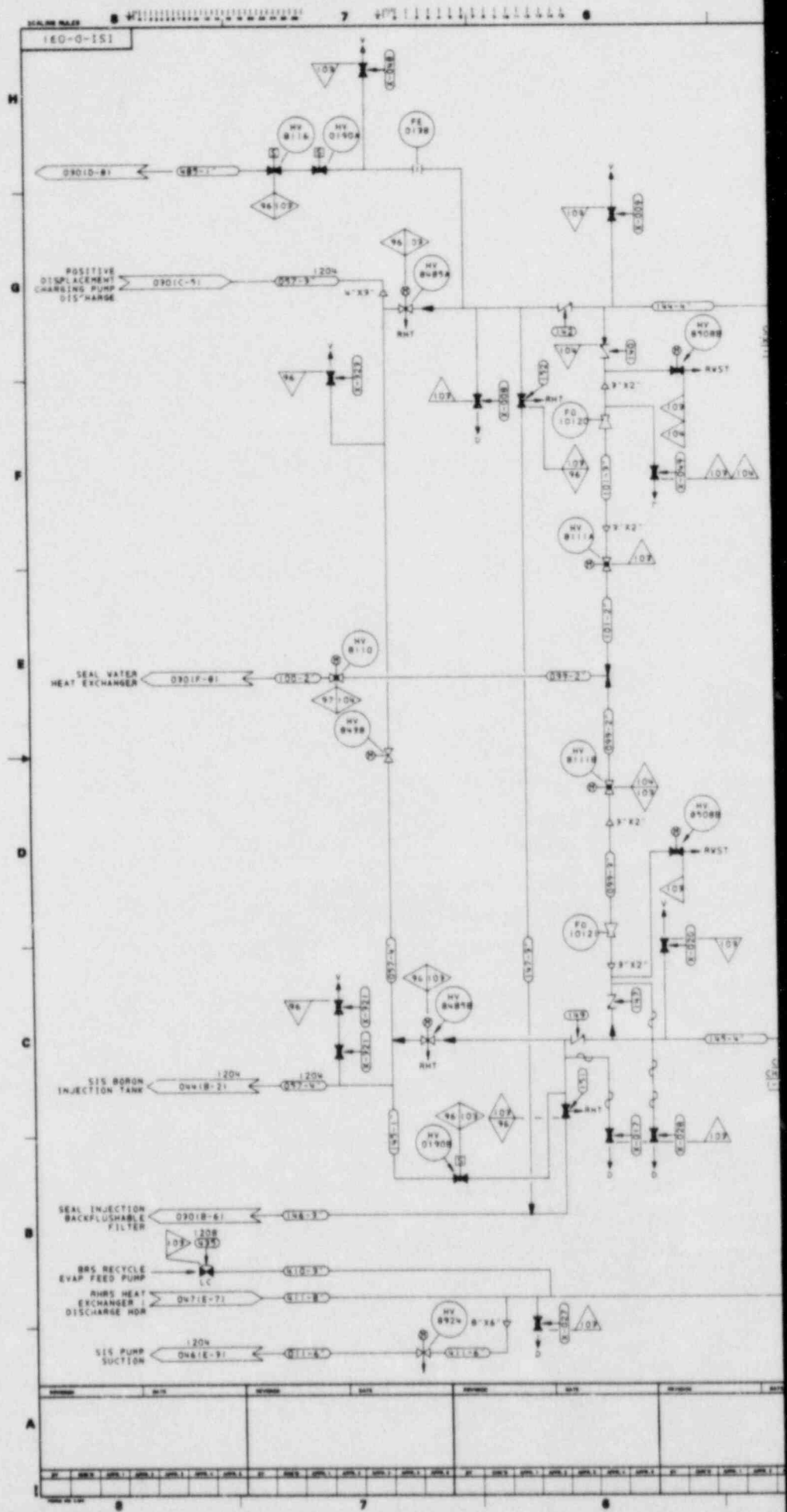
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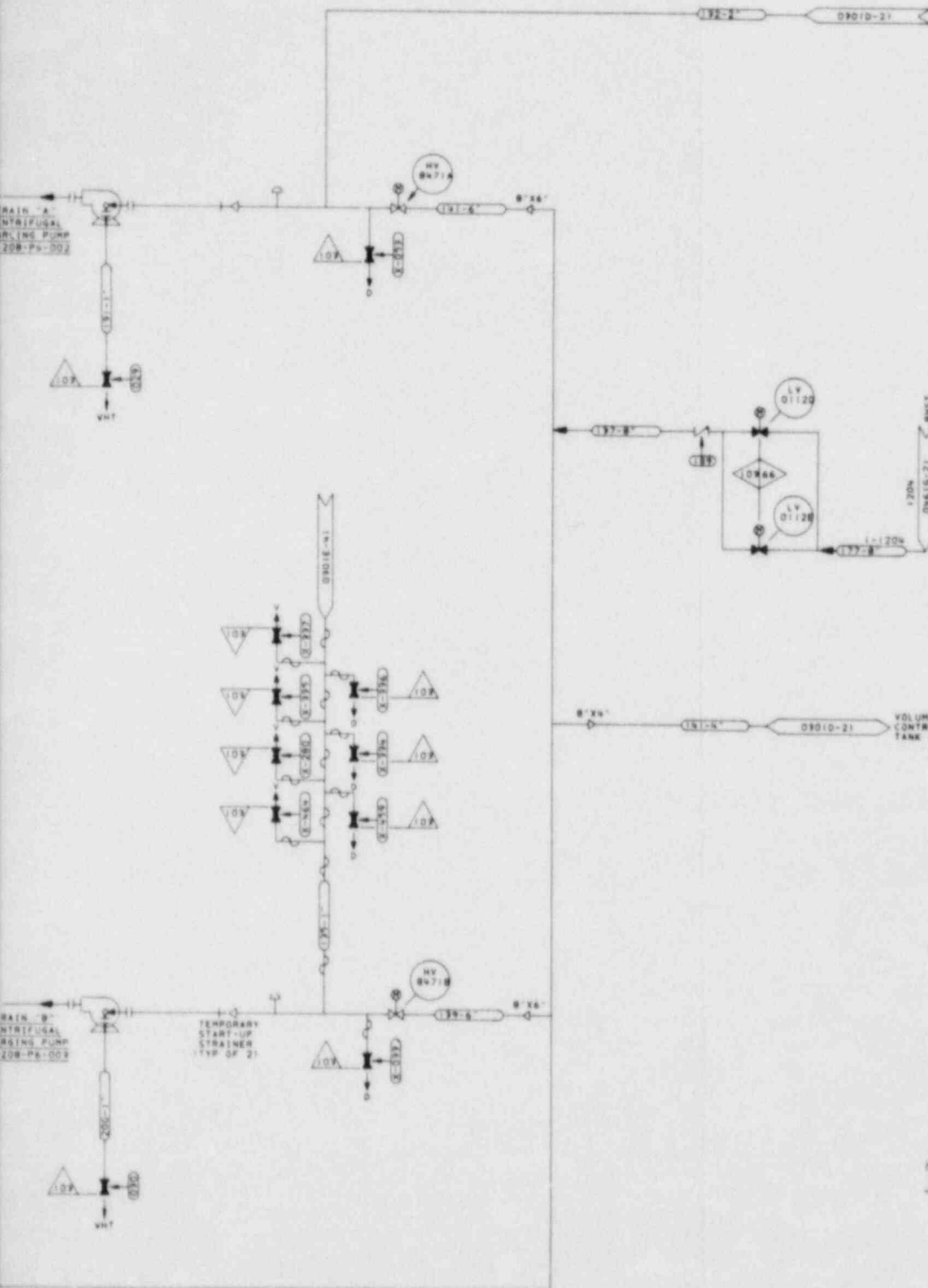
TI
APERTURE
CARD



Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOGTLE ELECTRIC GEN PLANT			
UNIT NO.1			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
CHEM & VOL CONT-SYS NO.1208			
ISSUING F1	REVISION 1/5	DATE 1/5	
SCALE	FIGURE 1/2	SECTION NUMBER	REV
SCALE	151-D-090		



Also Available On Aperture Card



LEGEND

- IS1 CLASS 2 PIPING
- IS1 CLASS 3 PIPING
- ACCWS - AUX COMPONENT COOLING WTR SYS
- VHT - WASTE HOLD-UP TANK
- RWST - REFUELING WATER STOR TANK
- RHT - RECYCLE HOLD-UP TANK
- WPSG - WASTE PROCESSING SYS GAS
- CVCS - CHEMICAL & VOLUME CONTROL SYS
- BRS - BORON RECYCLE SYSTEM
- SS - SAMPLING SYSTEM
- RHWST - REACTOR MAKE-UP WTR STOR TANK
- PIPE RESTRAINT
- ELECTRICAL HEAT TRACING
- HYDRO BOUNDARY
- V - VENT
- D - DRAIN

REFERENCE DWS:

1. P & ID CHEMICAL & VOLUME CONTROL
SYSTEM NO. 1208 - 1208011A-2.

SYSTEM HYDROSTATIC TEST			
BOUNDARY NO.	TEST PRESSURE (PSI)	VENT	CHARGE
066			
096			
097			
103			
104			

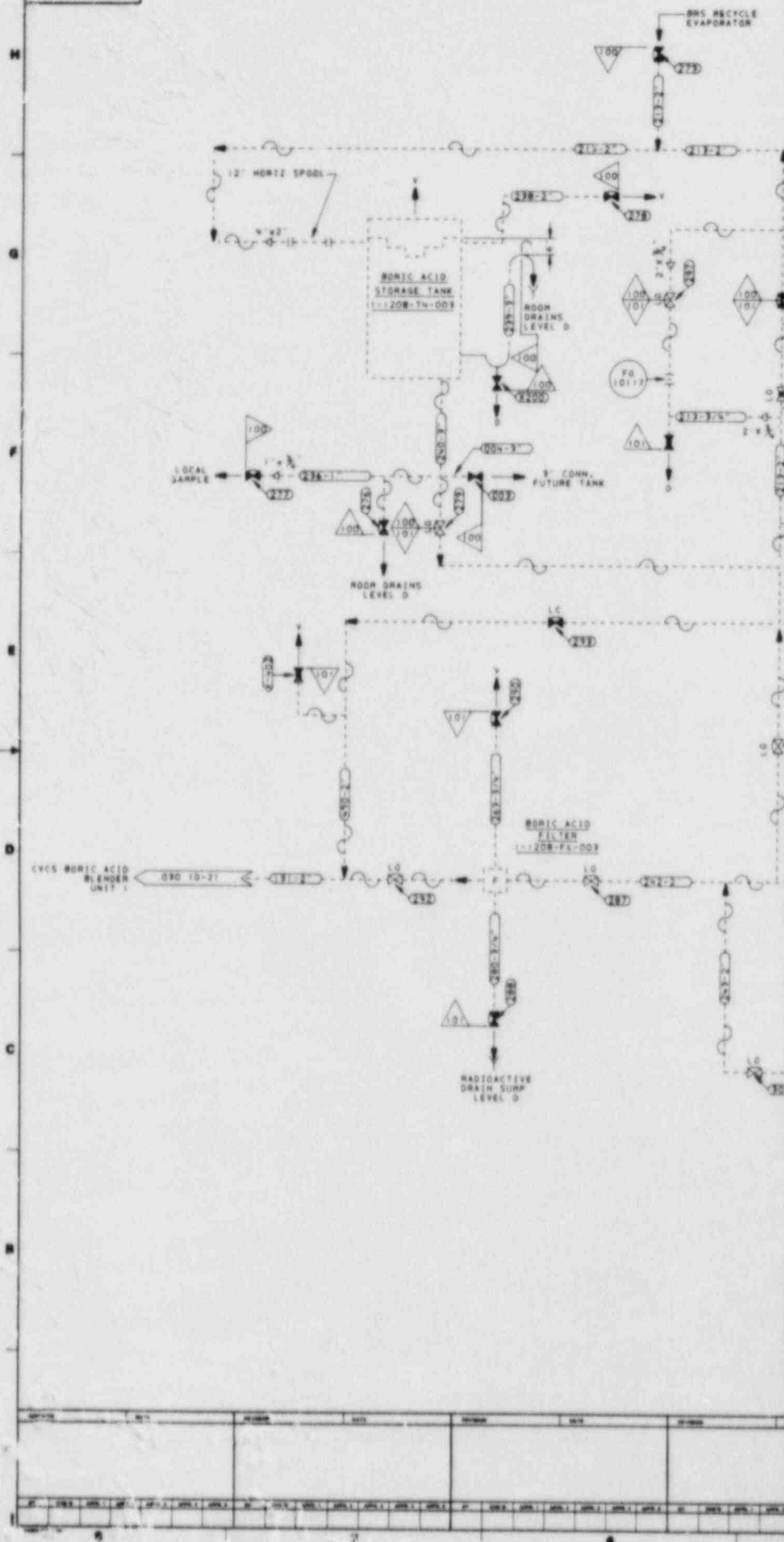
NOTES:

TI
APERTURE
CARD

Southern Company Services, Inc.	
GEORGIA POWER COMPANY	
VOSTLE ELECTRIC GENERATING PLANT UNIT 1	
INSERVICE INSPECTION PIPING CLASSIFICATION	
CHEM & VOL CONT-SYS NO. 1208	
REVISION	REVISION
DATE	DATE
BY	BY
SCALE	SCALE
151-D-091 D	

8405090063 - 6

Z60-0-151



Also Available On
Aperture Card

LEGEND
 --- 1ST CLASS 9 PIPING
 BRS BORON RECYCLE SYSTEM
 CYCS CHEMICAL AND VOLUME CONTROL SYSTEM
 D DRAIN
 V VENT
 △ HYDRO BOUNDARY
 — ELECTRICAL HEAT TRACING

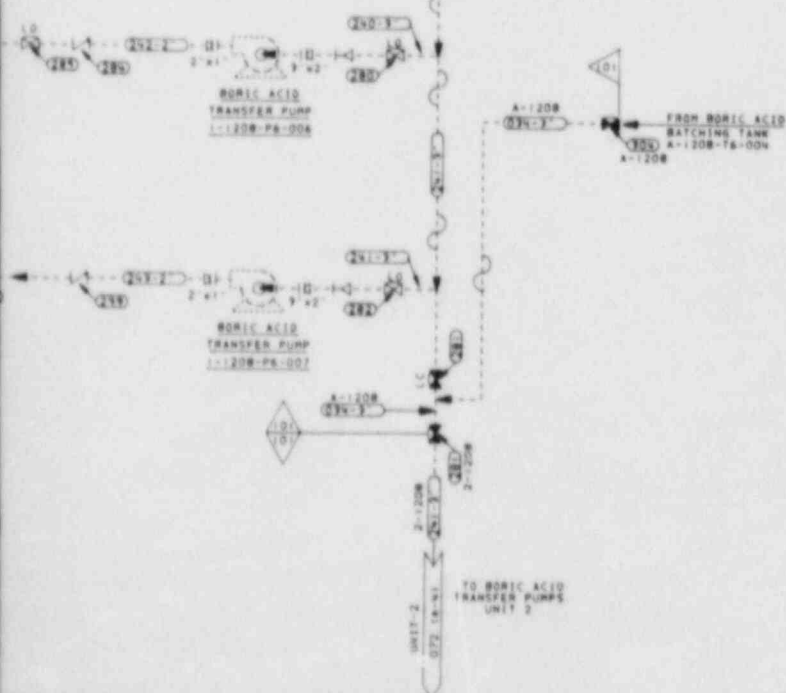
TI
APERTURE
CARD

REFERENCE DRAWINGS
 1. P&ID DIAGRAM CHEMICAL & VOLUME
 CONTROL SYSTEM NO. 1208 - 1XND0118

SYSTEM HYDROSTATIC TEST

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

NOTES



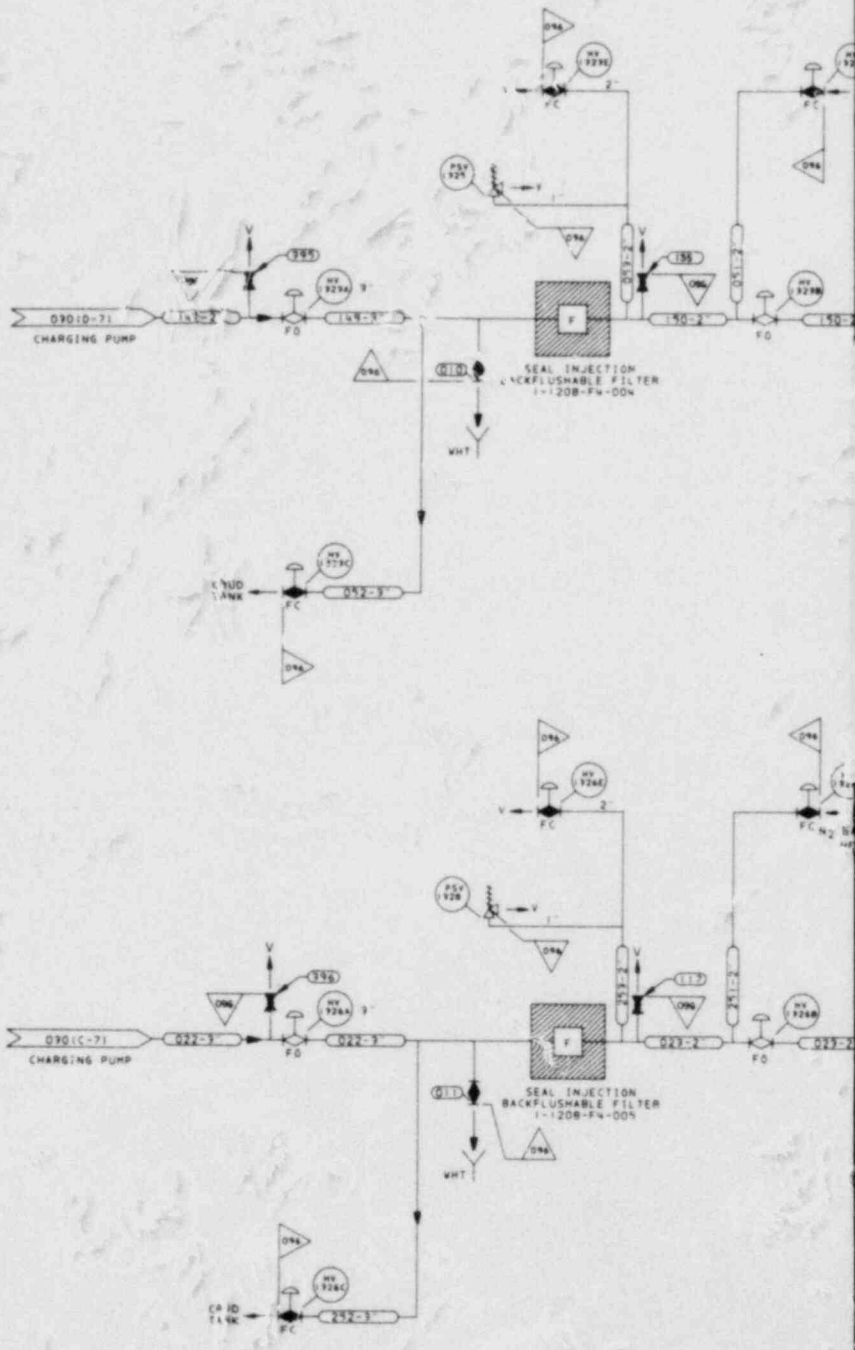
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GEORGIA POWER COMPANY											
VOGTLE ELEC GENERATING PLANT											
UNIT 1											
INSERVICE INSPECTION											
PIPING CLASSIFICATION											
CHEM & VOL CONT-SYS NO. 1208											
REVISION P. T. REVISION D. T. REVISION V. T.											
SCALE 151-D-092 O											

8405090063

- 7

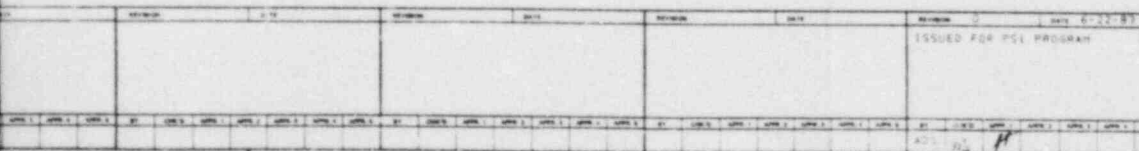
660-0-151



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REV	DATE	REV	DATE	REV	DATE	REV	DATE
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5	10/1/71	6	10/1/71	7	10/1/71	8	10/1/71

[illegible]



---	101 CLASS 2 PIPING
---	101 CLASS 3 PIPING
---	NON-101 CLASS
V	VENT
D	DRAIN
CCWT	COMPONENT COOLING WATER DRAIN TANK
CCW	COMPONENT COOLING WATER
ESF	ENGINEERED SAFETY FEATURE
	HYDRO BOUNDARY
	ELECTRICAL HEAT TRACING

PAID NUCLEAR SERVICE COOLING
WATER SYSTEM - 1X408133-1.

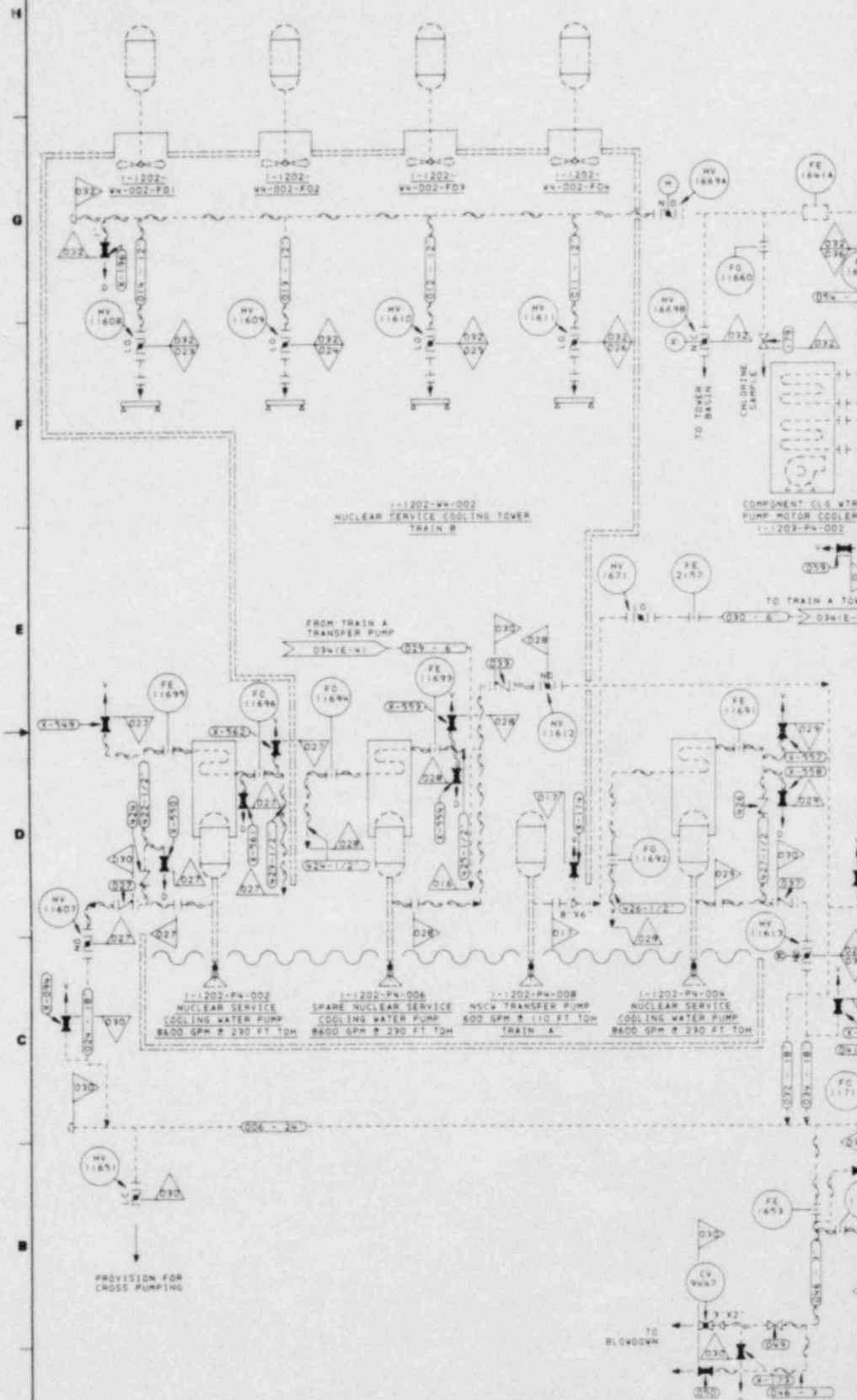
TI
APERTURE
CARD

BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
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007			
008			
009			
010			
011			
012			
013			
014			
015			
016			
017			
018			

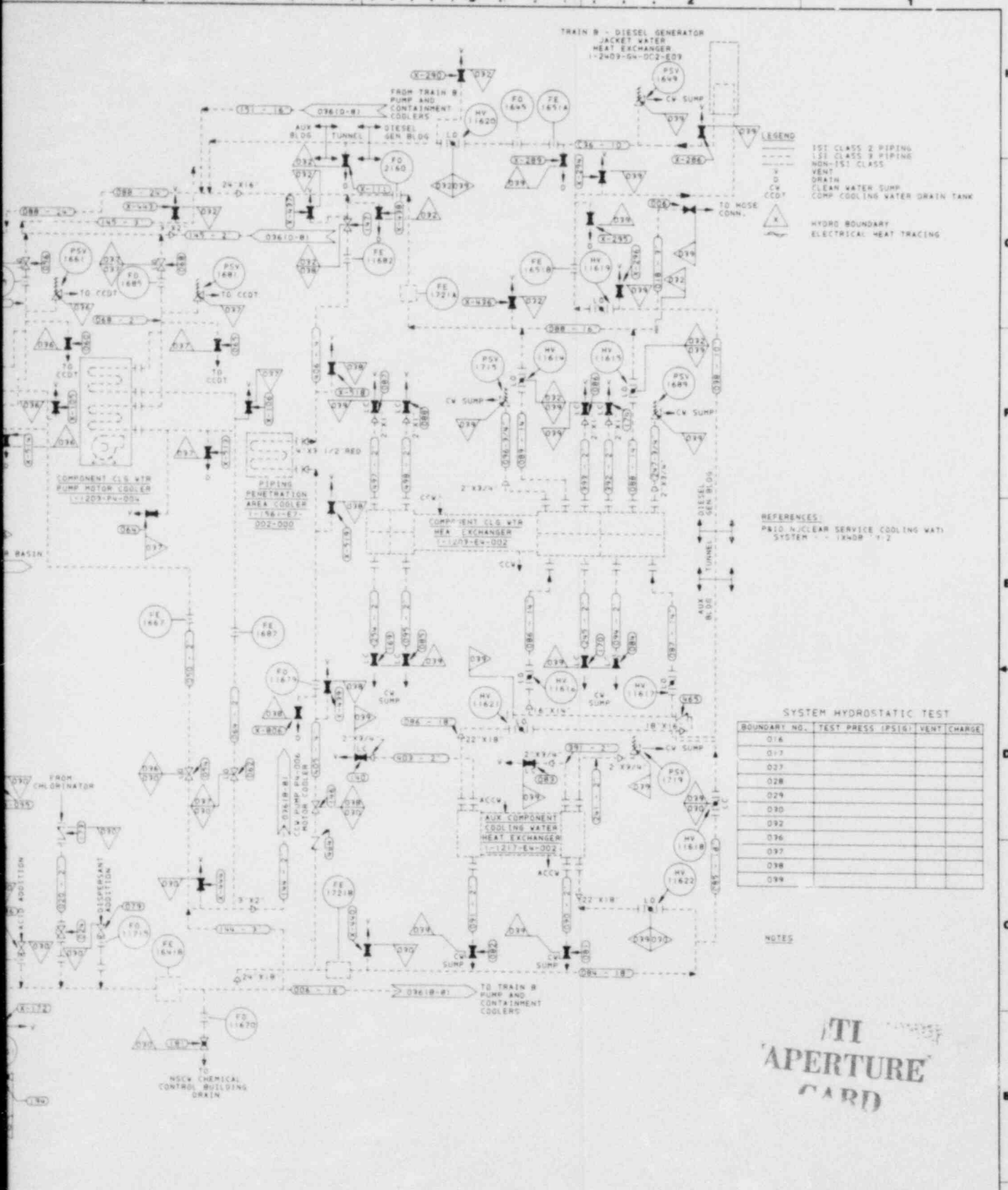
NOTES

8405090063 - 7

6E0-U-151



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
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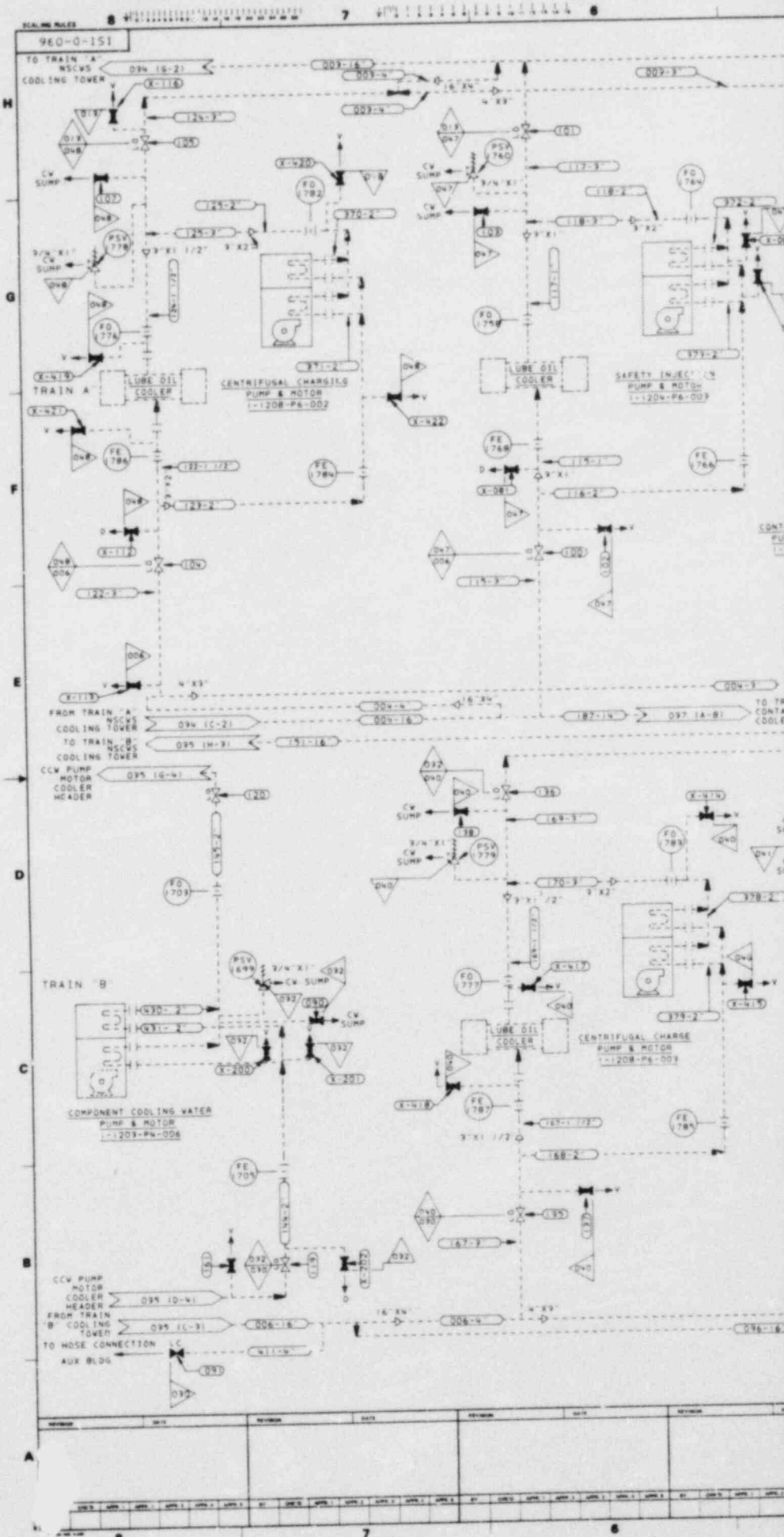
SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS (PSIG)	VENT	CHARGE
016			
017			
027			
028			
029			
030			
092			
096			
097			
098			
099			

NOTES

TI
APERTURE
CARD

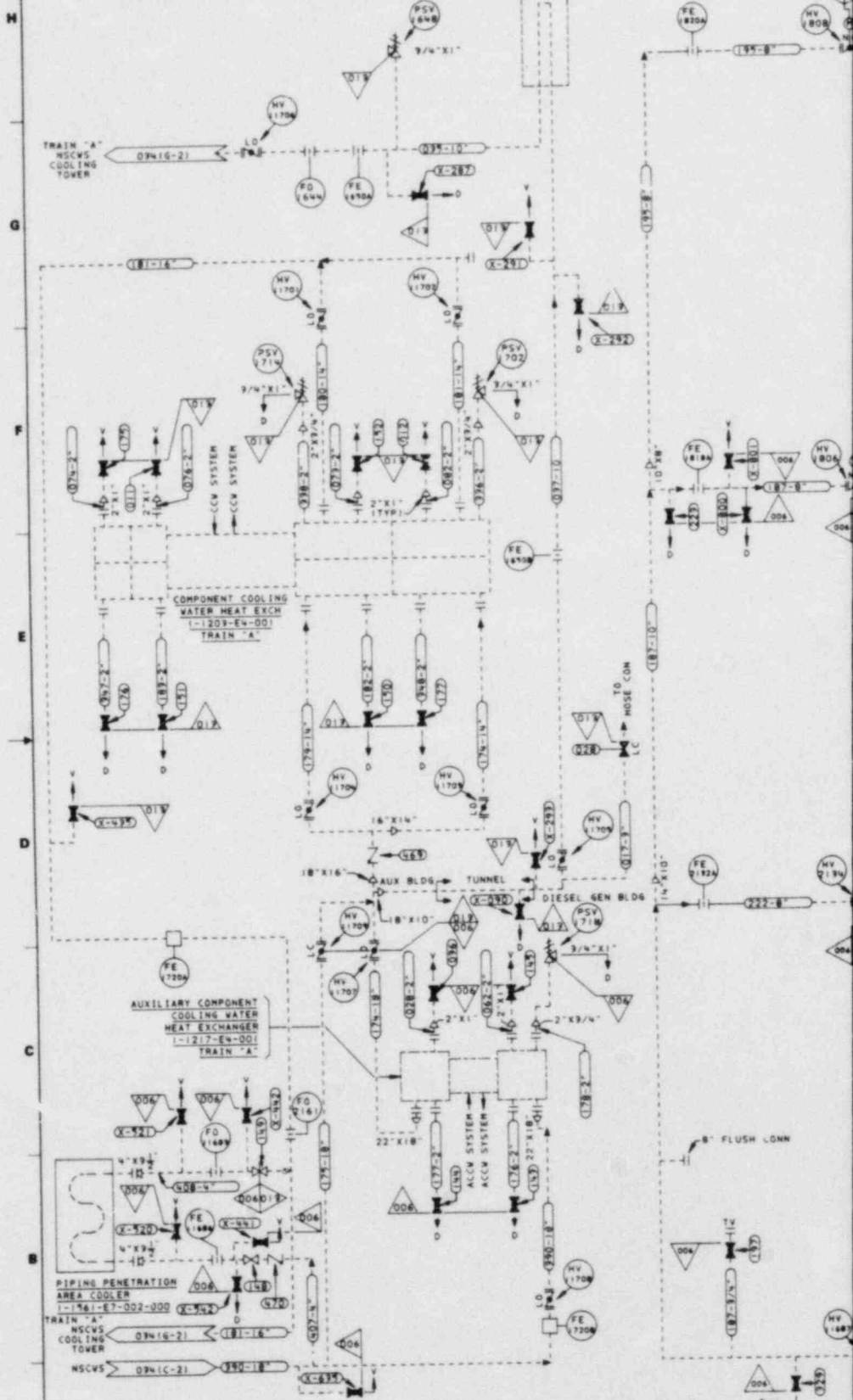
Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
FOOTLE E EC, GENERATING PLANT			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
NUCLEAR SERVICE			
COOLING WATER - 1202			
DATE	BY	REVIEWED	DATE
10-1-81	W. J. H.	W. J. H.	10-1-81
ISSUED FOR PSI PROGRAM			
PROJECT NO.	REVISION NO.	DATE	BY
101-D 015 D			



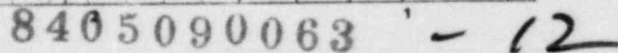


660-0-151

TRAIN "A" - DIESEL GENERATOR
JACKET WATER
HEAT EXCHANGER
1-2403-64-001-E09



REVISION	DATE	BY	CHKD	DATE	BY	CHKD	DATE	BY	CHKD
1	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.
2	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.
3	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.
4	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.
5	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.
6	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.
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10	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.	10/1/67	J. H. H.	J. H. H.



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E

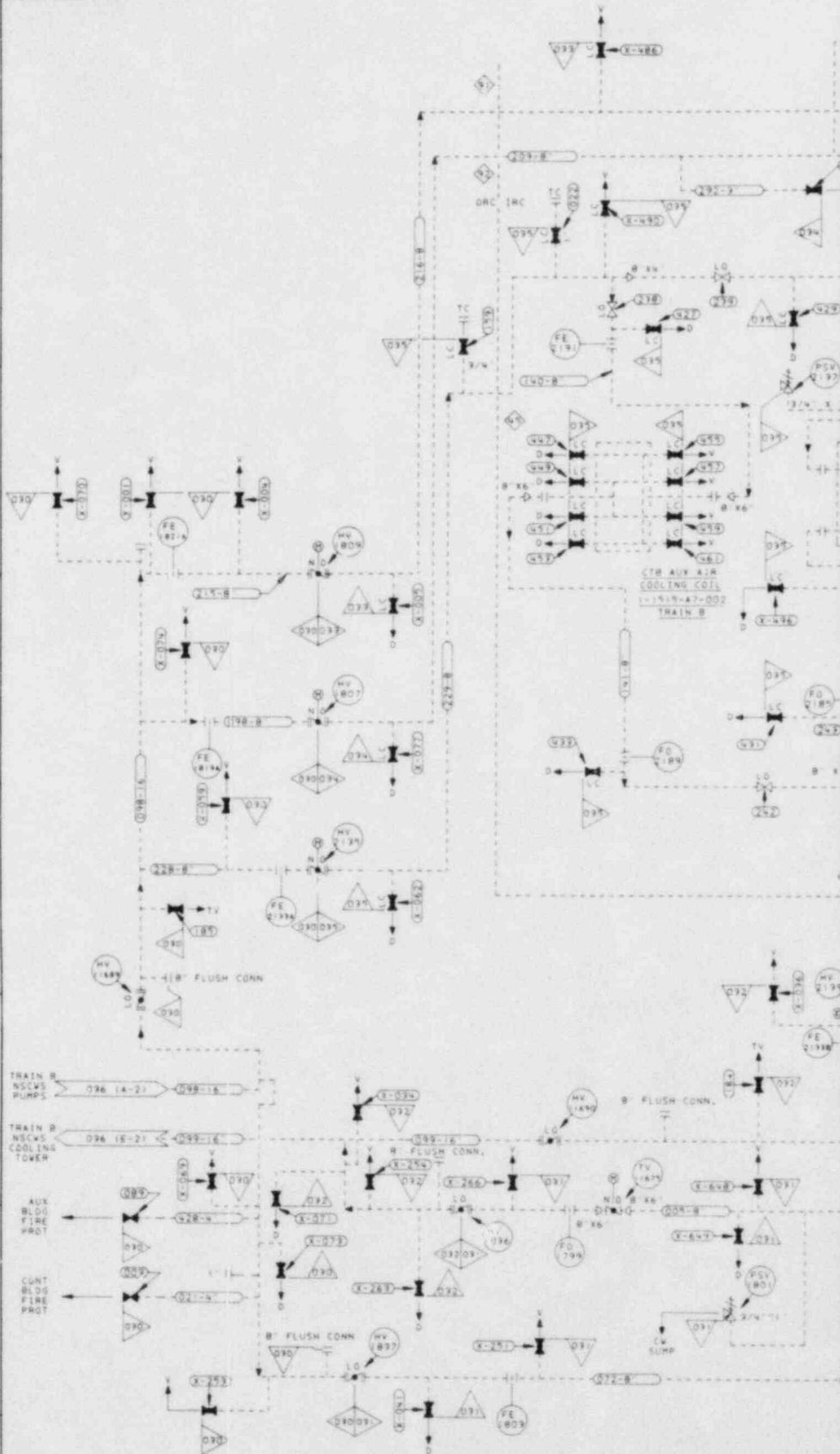
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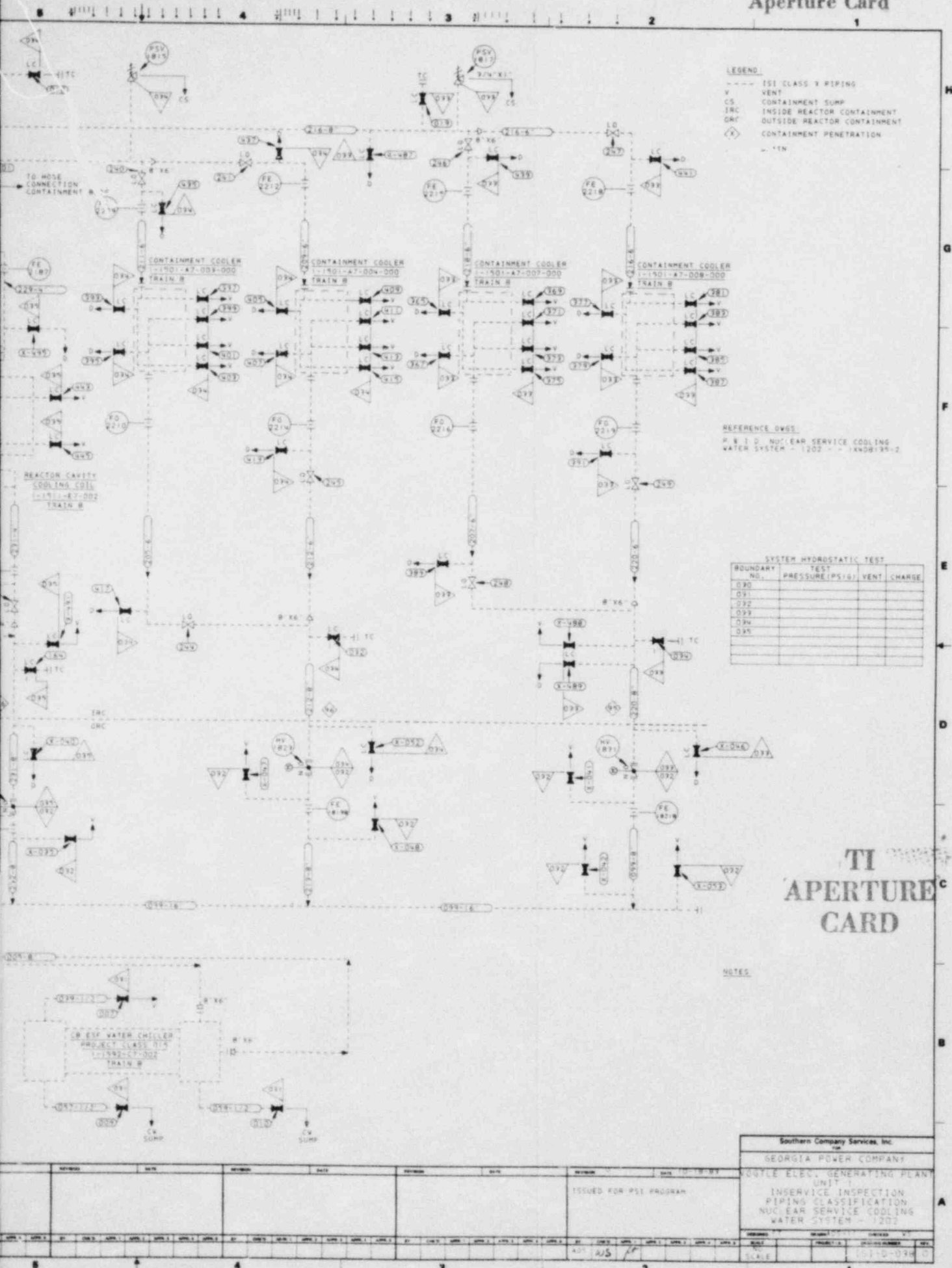
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A

I



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
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8405090063 - 13

LESENQ

--- ISI CLASS 2 PIPING
DRAIN

X HYDRO BOUNDARY

TI
APERTURE
CARD

REFERENCES

PAID ESP-CHILLED WATER-COOLING COILS
UNIT 1 - TRAIN A I XWDB239

PAID COOLING WATER SYSTEM
NO. 1202 I XWDB135-1

SYSTEM HYDROSTATIC TEST

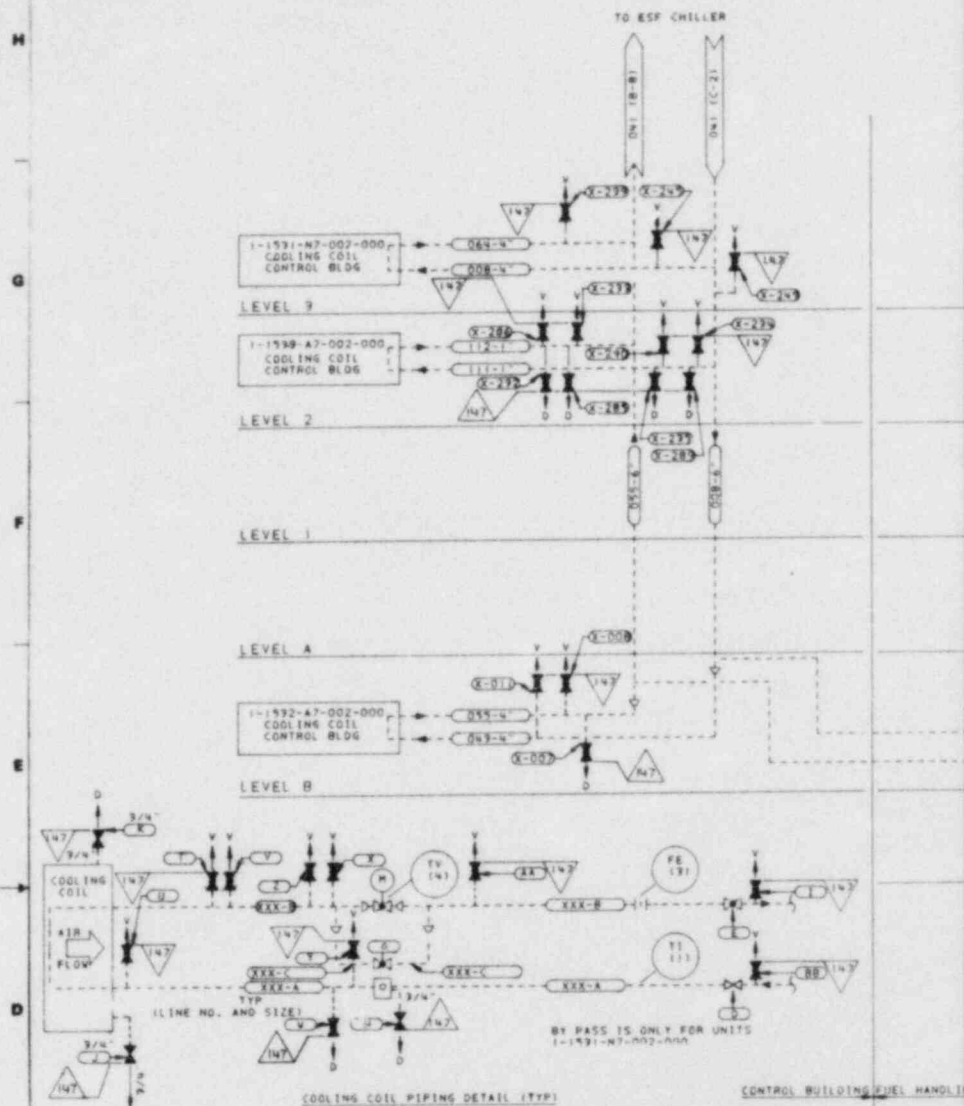
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NOTES

AND SIZE IN INCHES										EQUIP
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1	NO. 007	NO. 047		036	019	014	098	1208		
1	NO. 011	NO. 051			052	017	113	1284		
2	NO. 015	NO. 055			091	011	102	1360		
1	NO. 019	NO. 059			049	016	100	1360		
1	NO. 023	NO. 063			044	011	095	1311		
1 1/2	NO. 027	NO. 067			053	013	104	1360		
1 1/2	NO. 031	NO. 071			051	012	103	1360		
2	NO. 035	NO. 075			018	012	096	1394		
1 1/2	NO. 039	NO. 079			040	010	101	1394		
1 1/2	NO. 043	NO. 083			049	015	099	1398		
1 1/2	NO. 047	NO. 087			046	013	097	1384		
3	NO. 051	NO. 091			165	166	114	1382		

[illegible][illegible]

8405090063 - 14



COOLING COIL PIPING DETAIL (TYP)

CONTROL BUILDING FUEL HANDLING

CHILLED WATER COIL REFERENCE

EQUIPMENT NO.	INSTRUMENTATION NUMBER	CONTROL VALVE	PIPE & VALVE TAG			
			A		B	
			NO.	SIZE	NO.	SIZE
1-193-A7-002-000	22168 22169 22170	22125 206-110-3	008	8	064	8
1-192-A7-002-000	22187 22188 22189	22725 207-110-6	009	8	055	8
1-193-A7-002-000	22192 22193 22194	111	1	112	1	16
1-195-A7-002-000	22171 22172 22173		066	2	063	2
1-195-A7-004-000	22189 22190 22191		051	1	050	1
1-195-A7-006-000	22174 22175 22176		067	1	062	1
1-195-A7-008-000	22198 22199 22200		059	1 1/2	054	1 1/2
1-195-A7-010-000	22195 22196 22197		044	1 1/2	054	1 1/2
1-195-A7-012-000	22177 22178 22179		048	2	061	2
1-195-A7-014-000	22192 22193 22194		052	1 1/2	057	1 1/2
1-195-A7-016-000	22186 22187 22188		050	1 1/2	059	1 1/2
1-195-A7-018-000	22180 22181 22182		049	1 1/2	060	1 1/2
1-196-A7-001-000	22223 22224 22225		069	8	110	8

[illegible]

1n0-0-1S1

H

Q

F

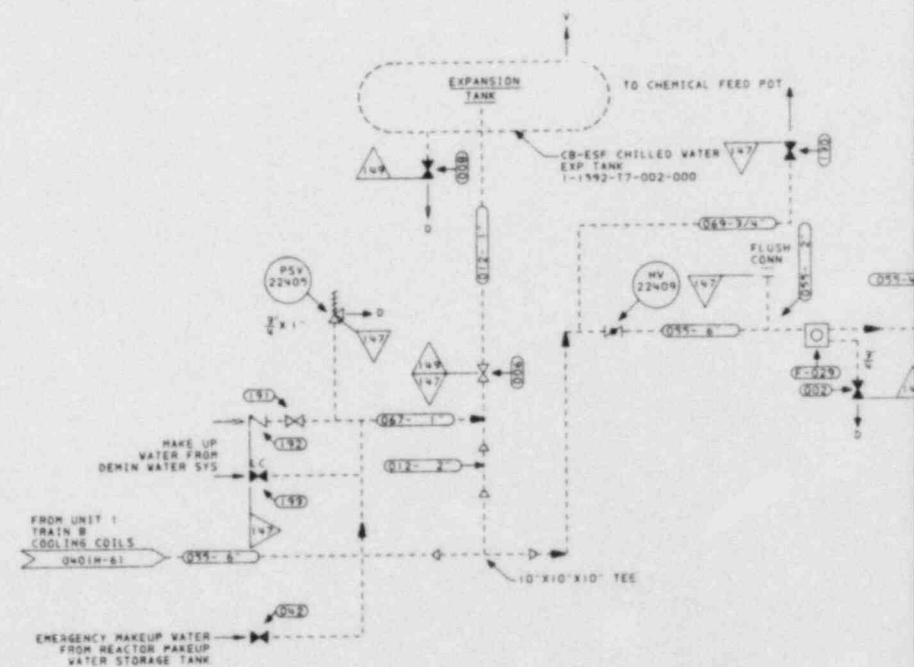
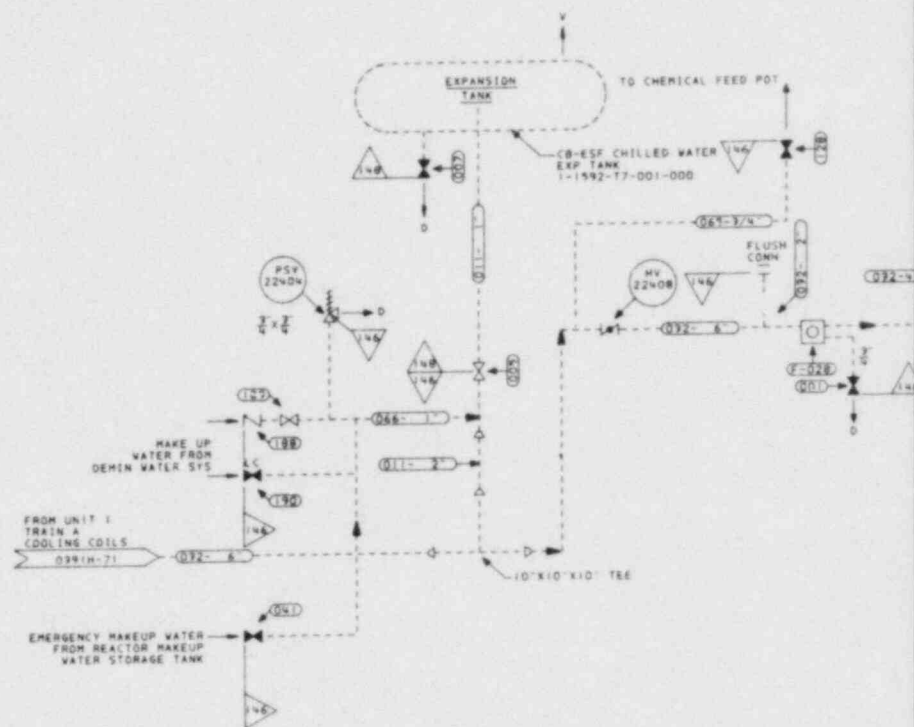
E

D

C

B

A

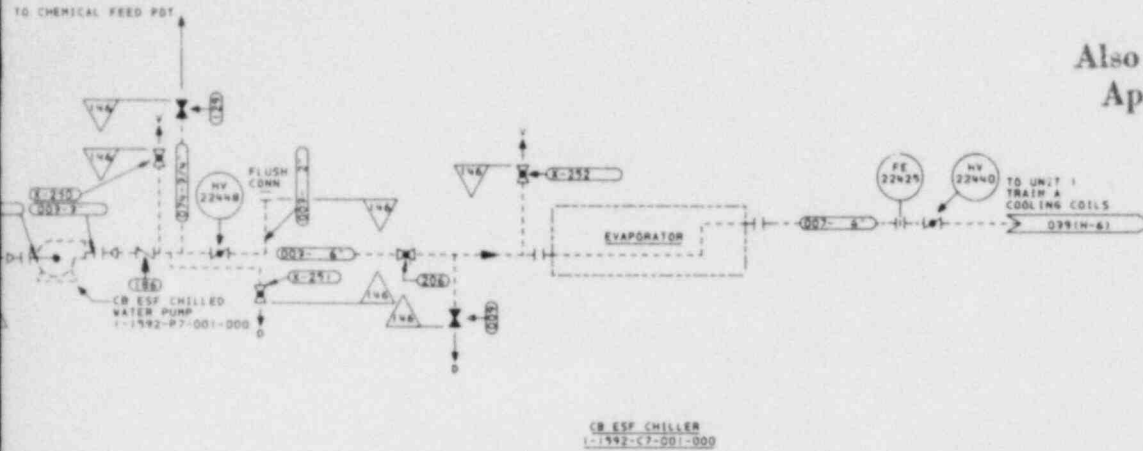


REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
BY	DATE	APPROVED	DATE	BY	DATE	APPROVED	DATE

LEGEND:

- 151 CLASS V PIPING
- NON-151 CLASS
- D - DRAIN
- V - VENT
- △ - HYDRO BOUNDARY

Also Available On
Aperture Card



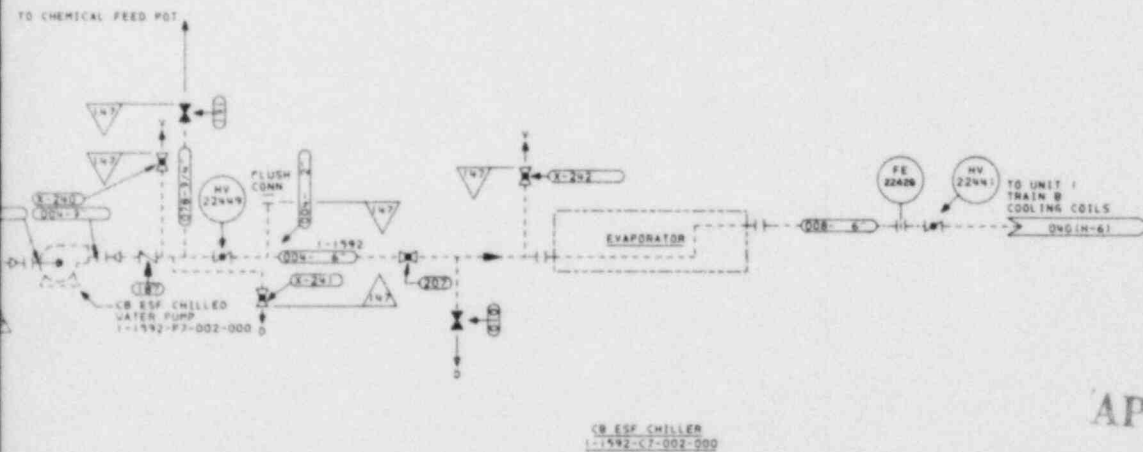
REFERENCES:

- P & ID SAFETY RELATED CHILLER
- UNIT 1 TRAINS
- A & B SYSTEM NO. 1592 (XN0622)

SYSTEM HYDROSTATIC TEST

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

NOTES:



TI
APERTURE
CARD

Southern Company Services, Inc.

GEORGIA POWER COMPANY

ISSUED FOR PSI PROGRAM

VOGTLE ELEC GENERATING PLANT
UNIT 1
INSERVICE INSPECTION
PIPING CLASSIFICATION
SAFETY RELATED CHILLERS-1592

REVISION: PT
SCALE: 151-D-041 0

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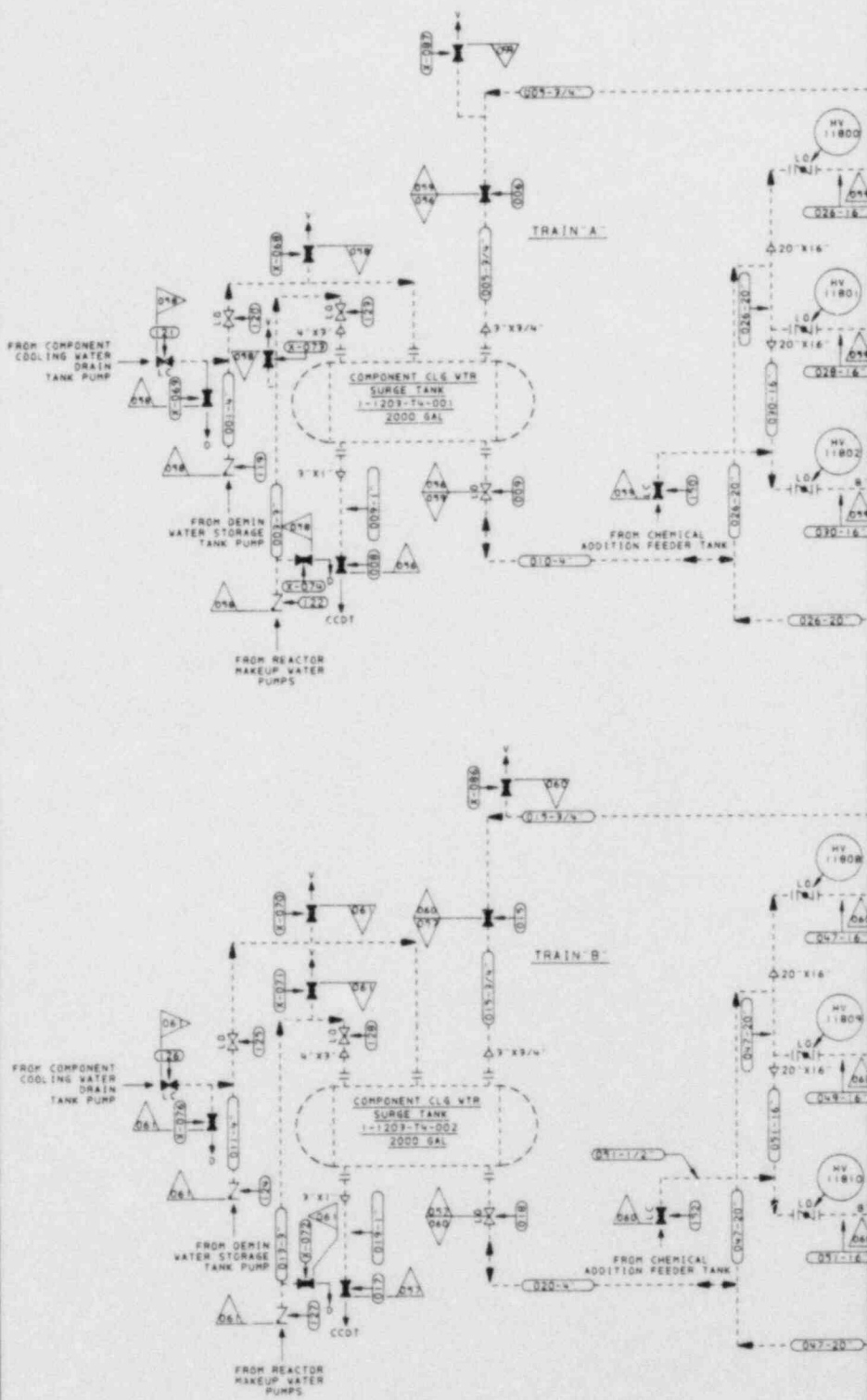
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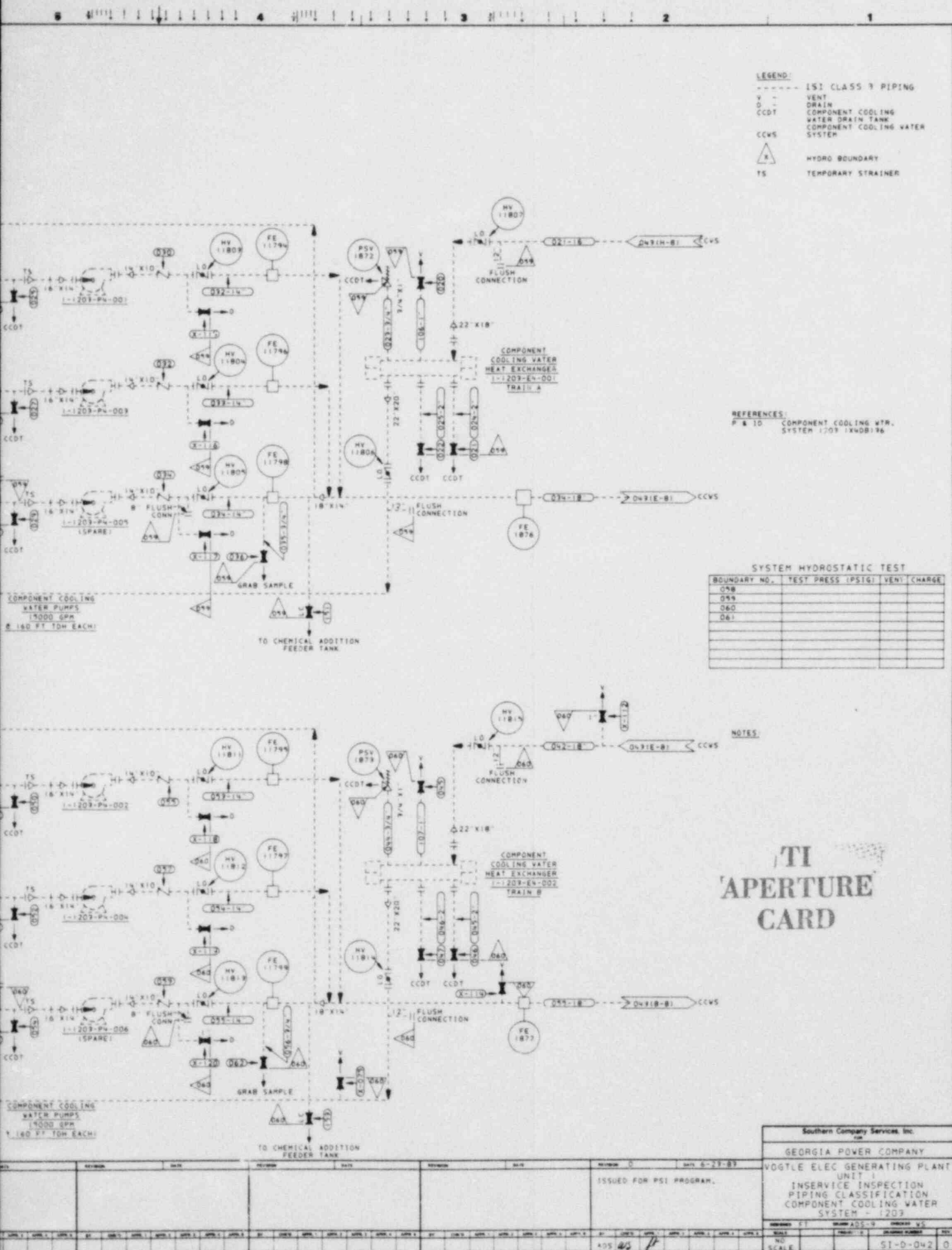
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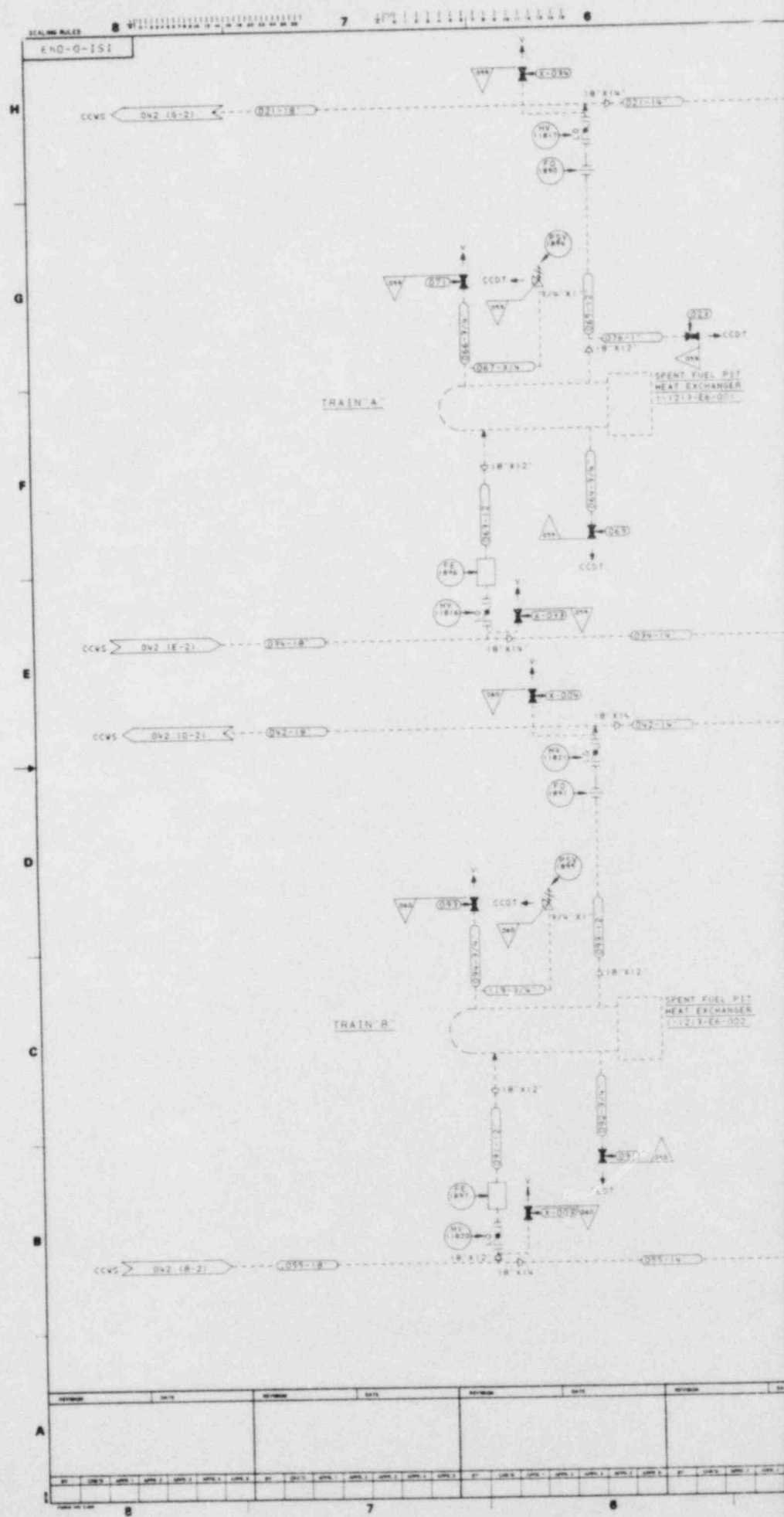
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REVISION	DATE	BY	CHKD	APP'D
1	10/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
2	10/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
3	10/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
4	10/15/78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
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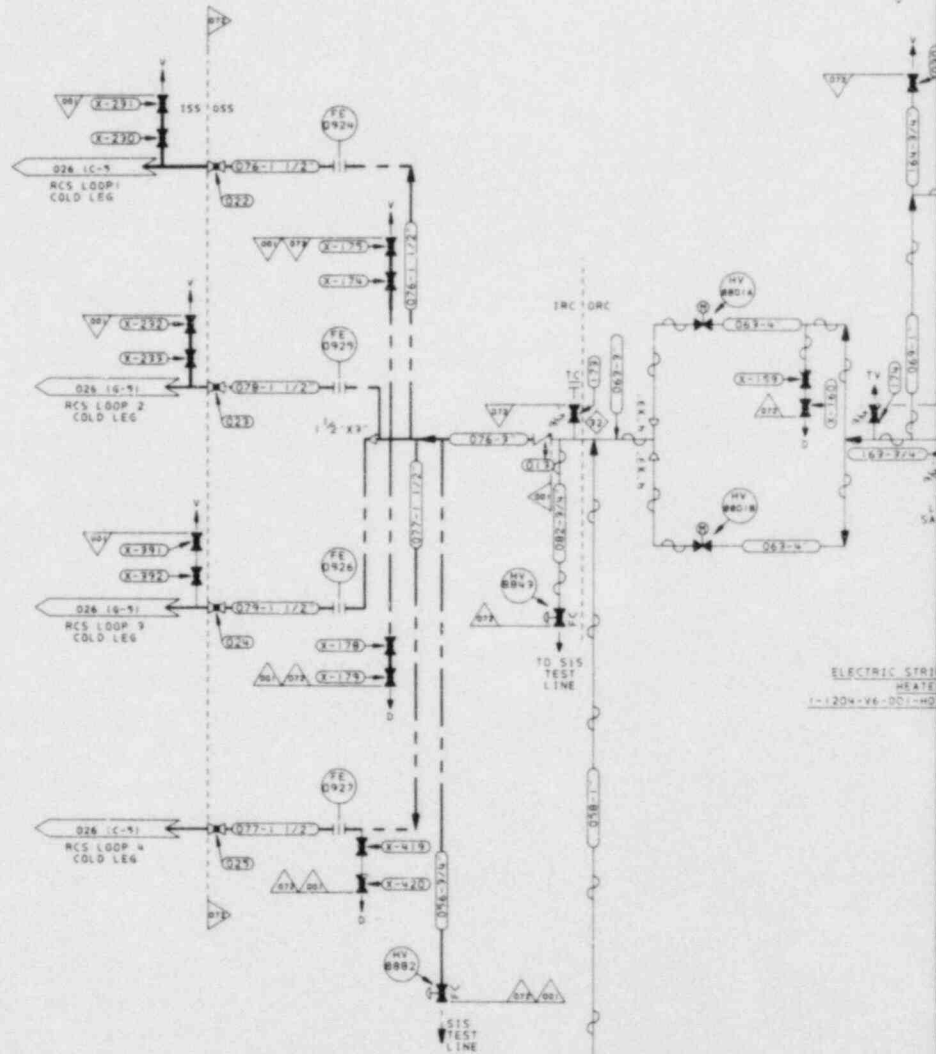




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440-0-151

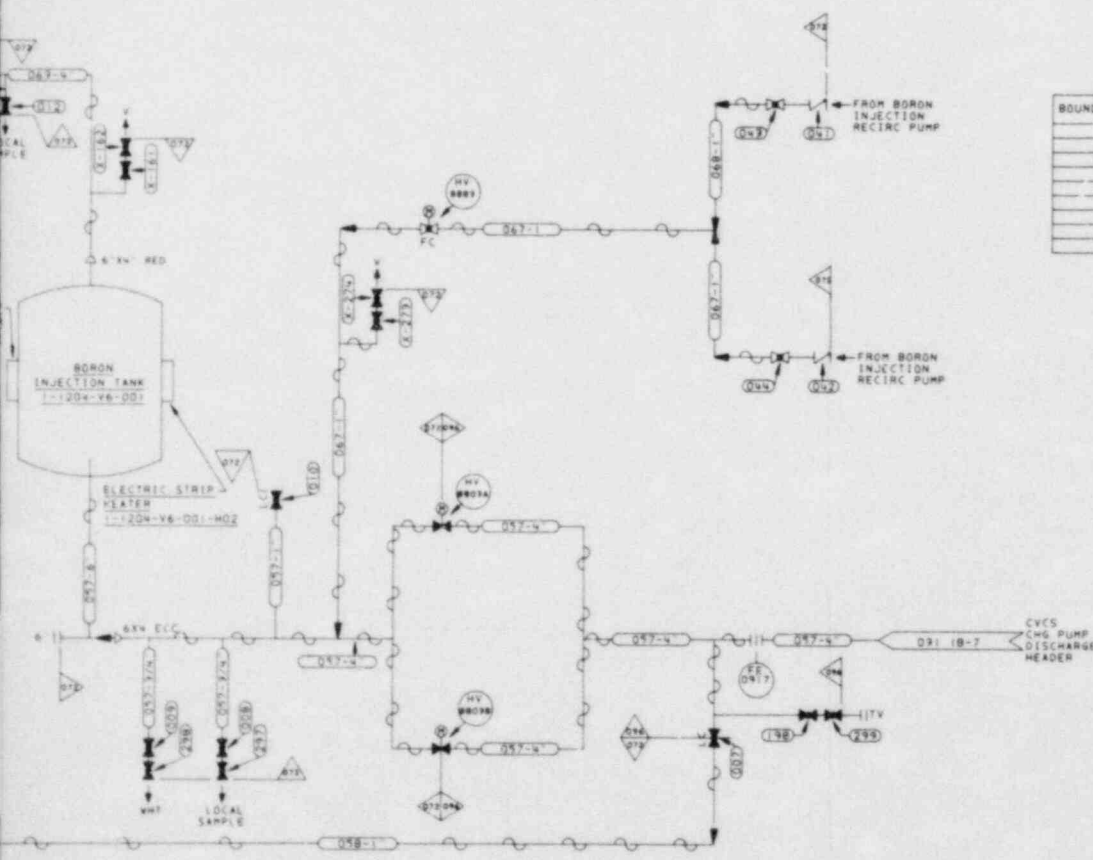
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97	10/1/79	98	10/1/79	99	10/1/79	100	10/1/79

TO BORON INJECTION
SURGE TANK 1-1204-T6-001

TO BORON
RECIRC PUMPS
1-1204-P6-001
1-1204-P6-002



- 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
 - ELEC HEAT TRACING

REFERENCES:
PAID SAFETY INJECTION SYSTEM (XVDR) 119

SYSTEM HYDROSTATIC TEST

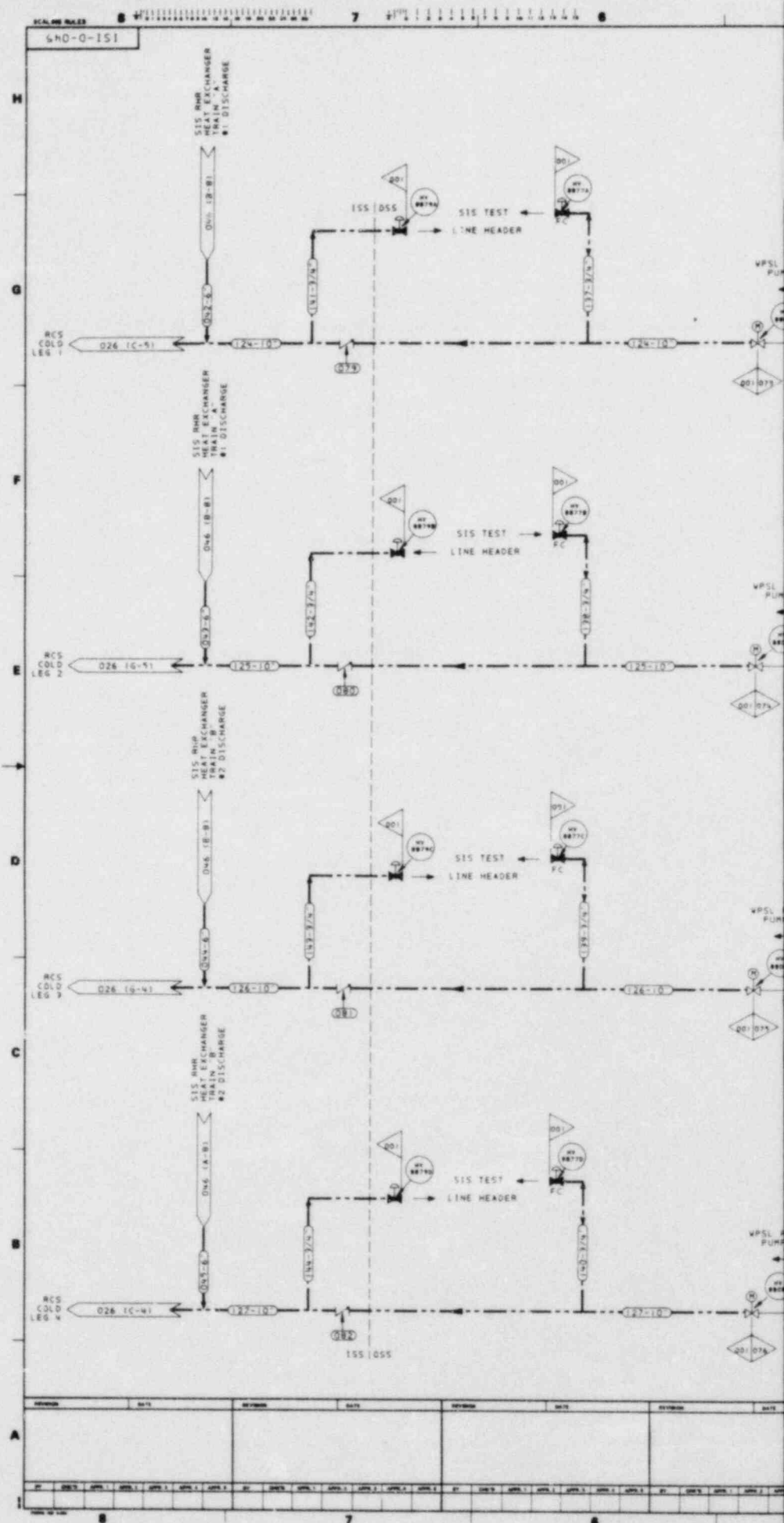
BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
001			
072			
096			

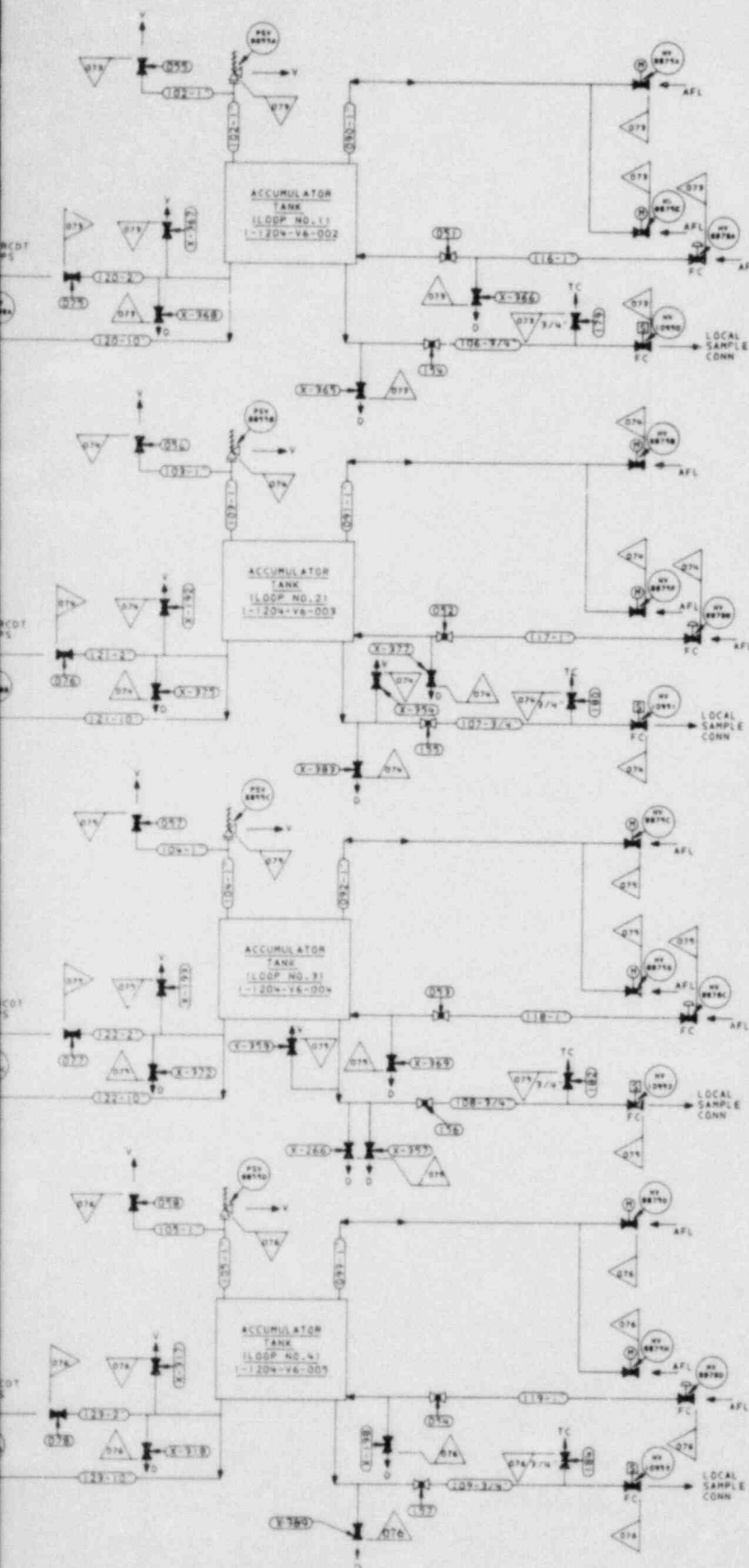
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TI APERTURE CARD

REVISION		DATE		REVISION		DATE		REVISION		DATE		REVISION		DATE	

Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOGTLE ELEC GENERATING PLANT			
UNIT 1			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
SAFETY INJECTION-SYSTEM 1204			
REVISION	BY	DATE	REVISION
1	10/1/78	10/1/78	1
2	10/1/78	10/1/78	2
3	10/1/78	10/1/78	3
4	10/1/78	10/1/78	4
5	10/1/78	10/1/78	5
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8	10/1/78	10/1/78	8
9	10/1/78	10/1/78	9
10	10/1/78	10/1/78	10





LEGEND

151 CLASS 1 PIPING
 151 CLASS 2 PIPING
 V-VENT
 AFL-ACCUMULATOR FILL LINE
 TC-TEST CONNECTION
 IRC-INSIDE REACTOR CONTAINMENT
 ORC-OUTSIDE REACTOR CONTAINMENT
 SIS-SAFETY INJ SYSTEM
 WGL-WASTE PROCESS SYSTEM LIQUID
 RCD-REACTOR COOLANT DRAIN TK
 X CONTAINMENT PENETRATION

 HYDRO BOUNDARY

REFERENCE DWG'S
P&ID SAFETY INJECTION (X40B) 20
SYSTEM 1204

SYSTEM HYDROSTATIC TEST

[illegible]

NOTES

TI
APERTURE
CARD

Southern Company Services, Inc.		
GEORGIA POWER COMPANY		
VOGTLE ELEC GENERATING PLANT		
UNIT-1		
INSERVICE INSPECTION		
PIPING CLASSIFICATION		
SAFETY INJECTION SYS-1204		
REP-NAME	INSTRUMENTS-B	CONTRACT NO.
SCALE	PROJECT 2	PLANTING NUMBER
		151-D-045

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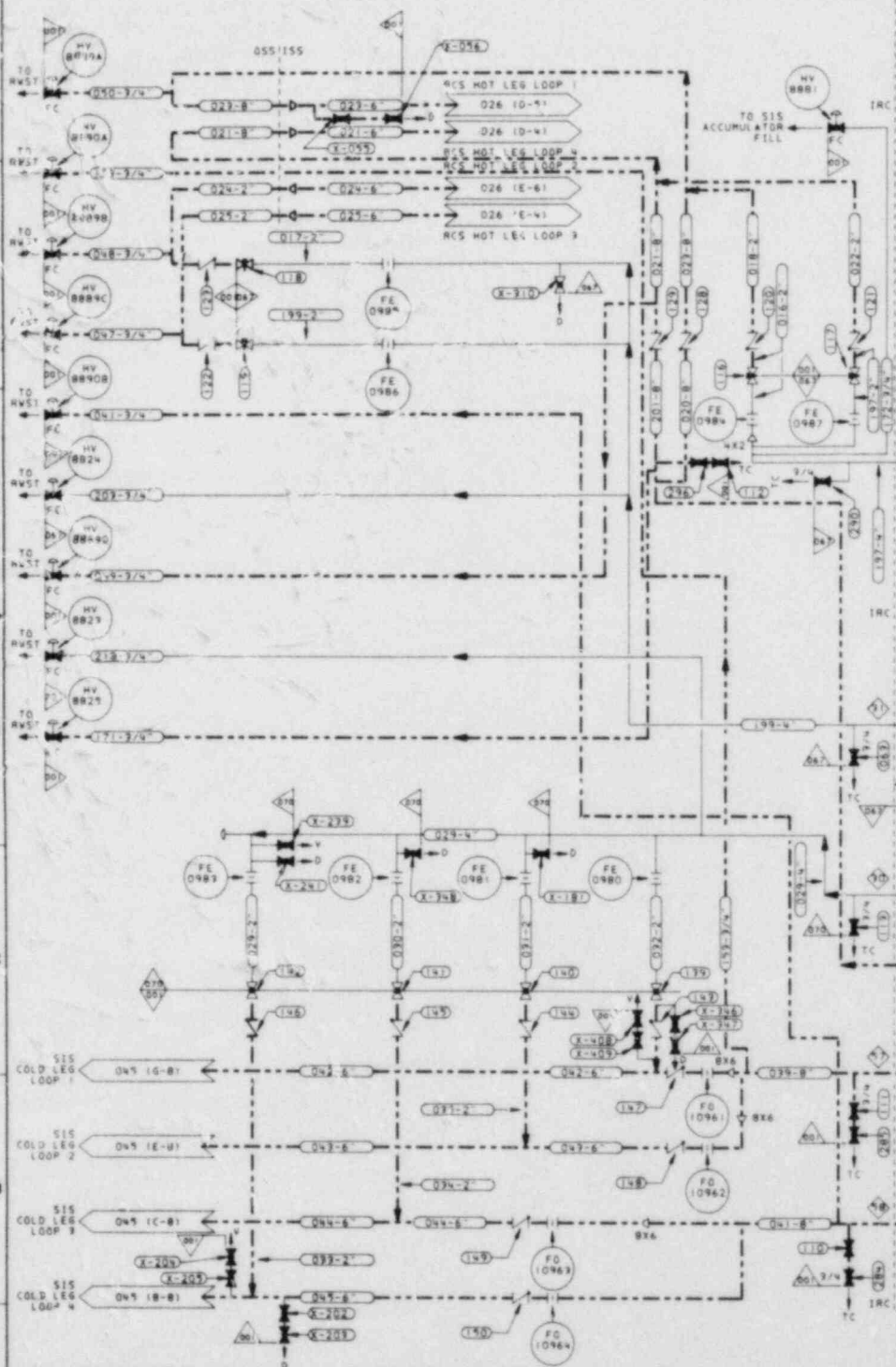
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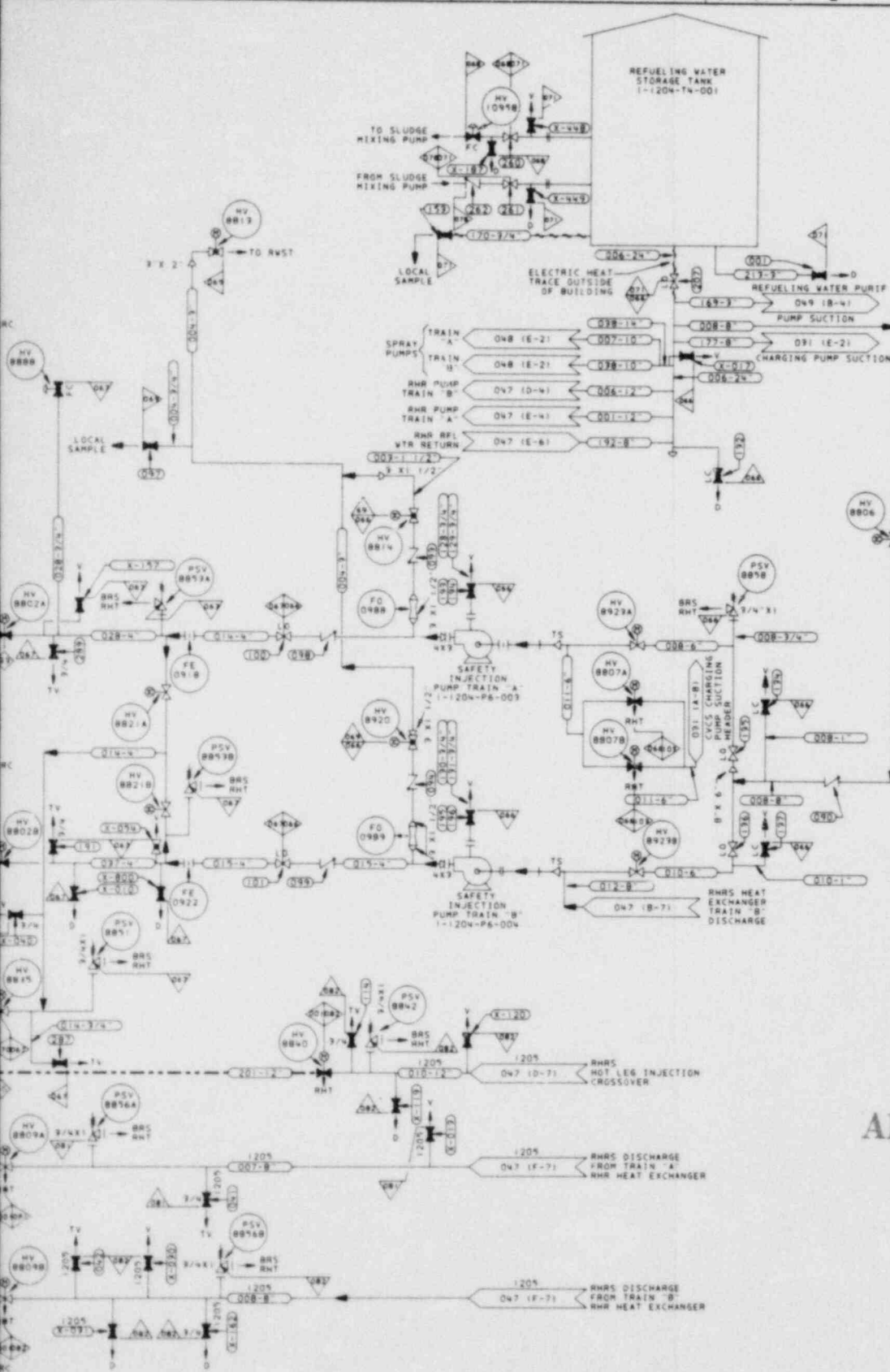
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97	10/1/68	98	10/1/68	99	10/1/68	100	10/1/68



LEGEND:

- IS1 CLASS 1 PIPING
- IS1 CLASS 2 PIPING
- V - VENT
- RHRS - RESIDUAL HEAT REMOVAL SYSTEM
- SIS - SAFETY INJECTION SYSTEM
- D - DRAIN
- ECH - ELECTRIC CIRCULATION HEATER
- BRS-RHT - BORON RECTICLE SYSTEM - RECYCLE HOLD UP TANK
- RWST - REFUELING WATER STORAGE TANK
- TC - TEST CONNECTION
- TS - TEMPORARY STRAINER
- TV - TEST VENT
- ELECTRIC HEAT TRACING
- X - HYDRO BOUNDARY

REFERENCES:

P&ID SAFETY INJECTION SYSTEM 1204 (XN0812)

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
001			
006			
067			
068			
069			
071			
078			
081			
082			
103			

NOTES:

TI
APERTURE
CARD

Southern Company Services, Inc.

GEORGIA POWER COMPANY

VOGTLE ELEC GENERATING PLANT
UNIT 1
INSERVICE INSPECTION
PIPING CLASSIFICATION
SAFETY INJECTION SYSTEM-1204

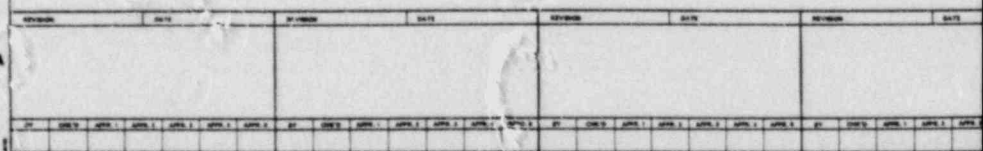
ISSUED FOR PSI PROGRAM.

REVISION 11
SCALE 1:1
151-0-046 0

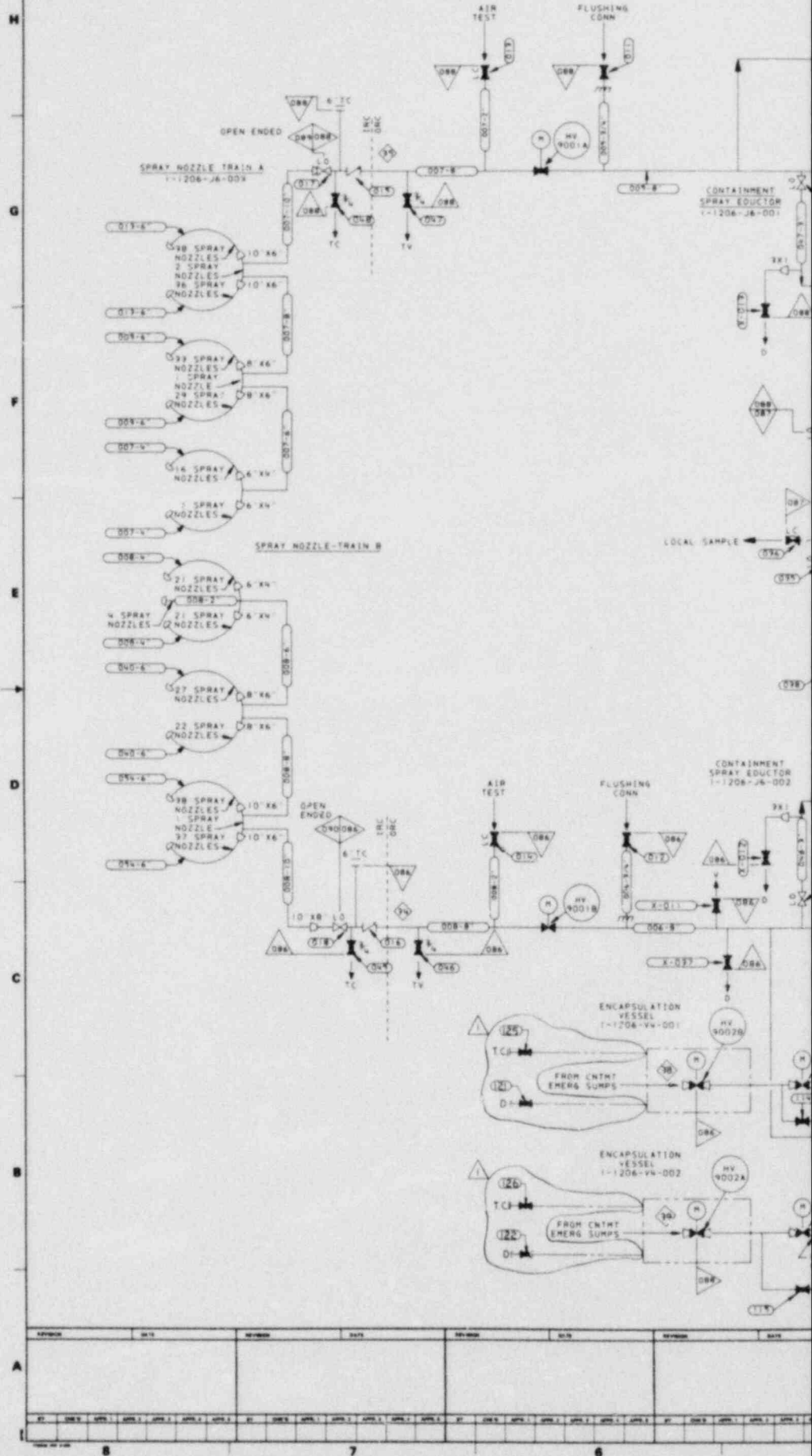
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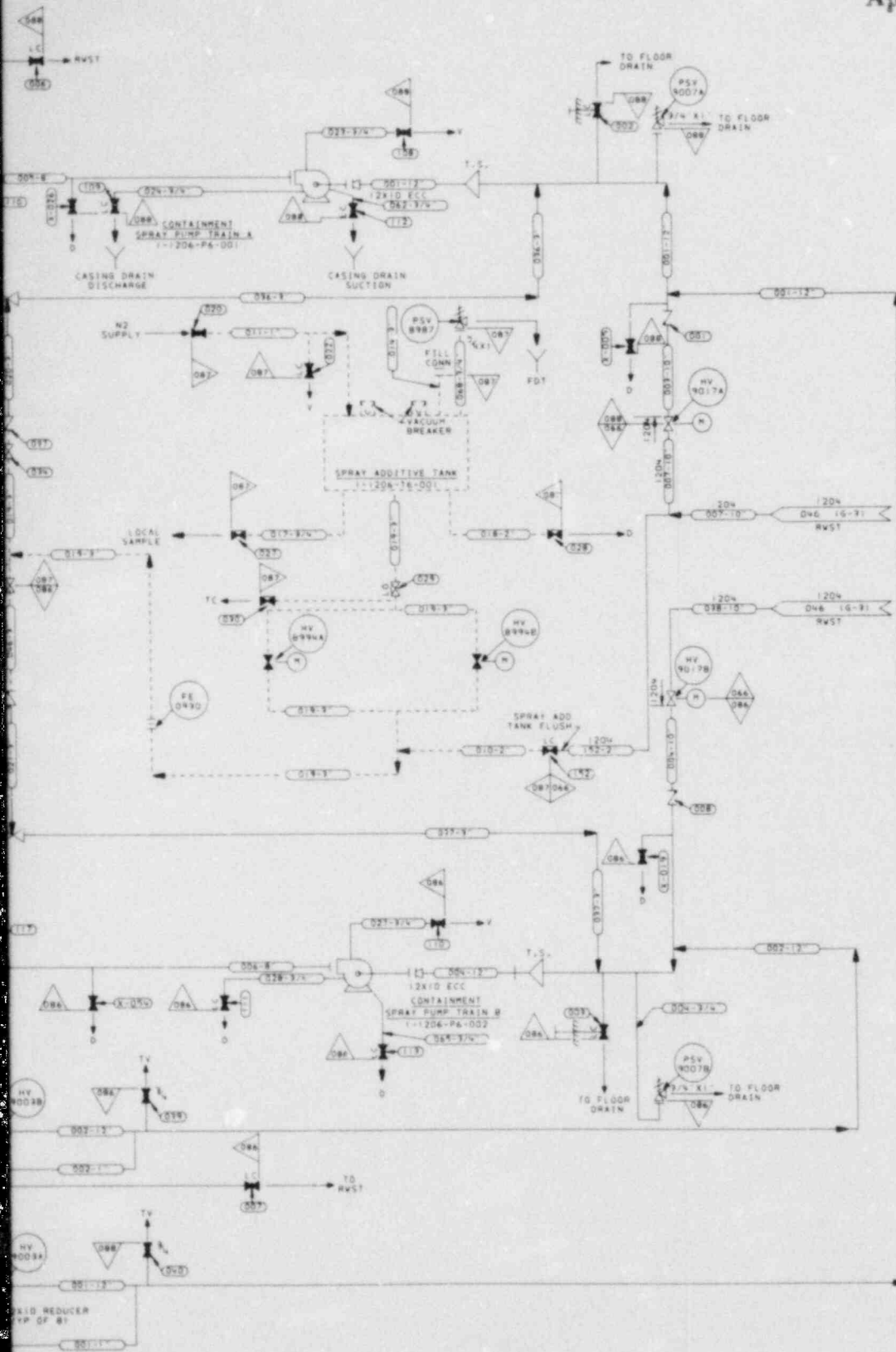
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Also Available On Aperture Card



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

REFERENCES:
PRID CONTAINMENT SPRAY SYSTEM (1204)
1X40819

SYSTEM HYDROSTATIC TEST

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

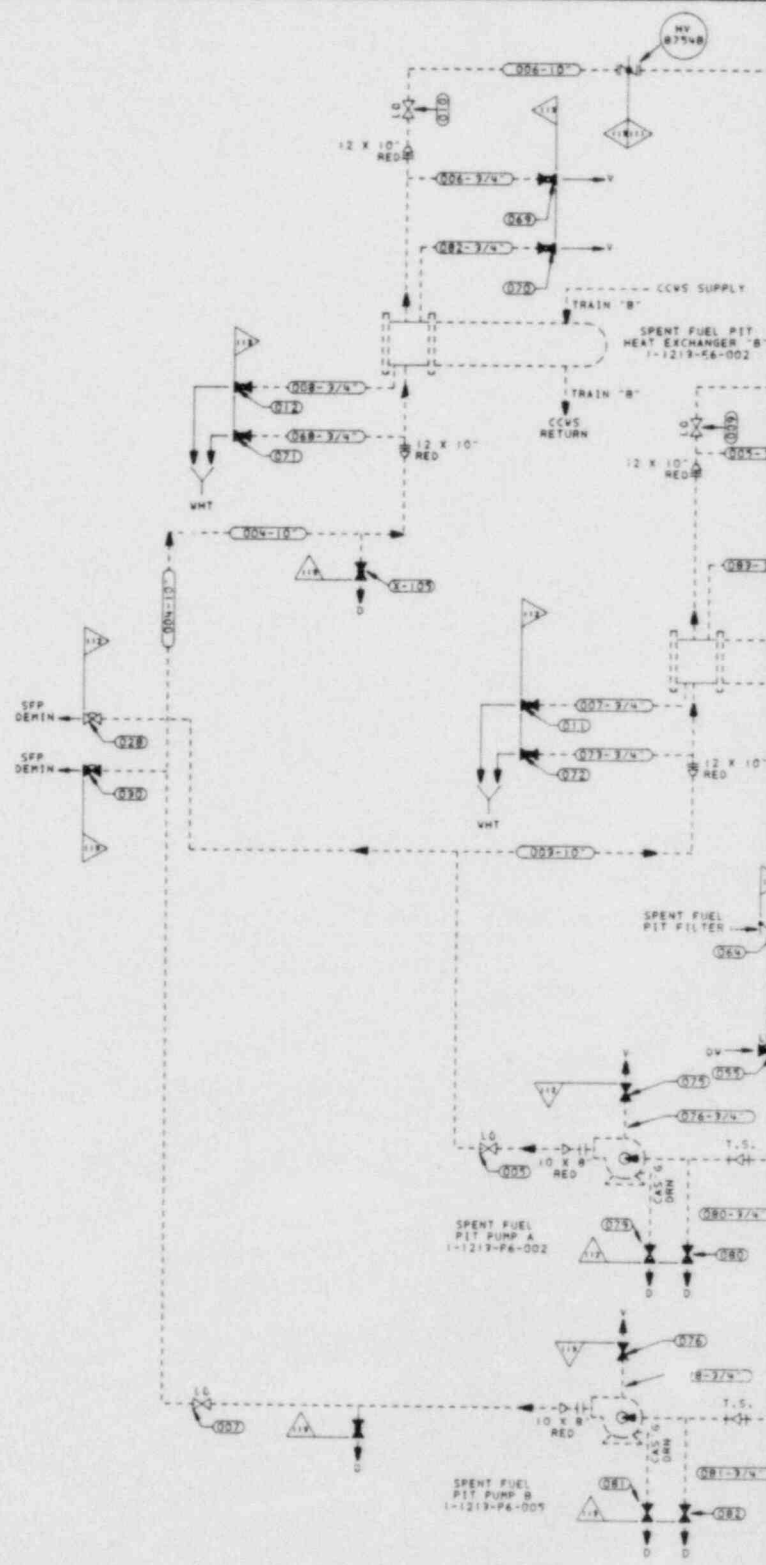
NOTES:

**TI
'APERTURE
CARD**

Southern Company Services, Inc.									
GEORGIA POWER COMPANY									
VOGTLE ELEC. GENERATING PLANT UNIT 1									
INSERVICE INSPECTION PIPING CLASSIFICATION									
CONTAINMENT SPRAY SYS - 1204									
REVISION 0									
ISSUED FOR PS: PROGRAM									
B4. ADDED DRAIN & TEST CONN VALVES TO ENCAPSULATION VESSELS (PEN 38 & 39)									
DATE 7-21-81									
DRAWN: LWS									
CHECKED: WJS									
SCALE: 1									

640-0-151

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REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION
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97	1-12-78	ISSUED FOR CONSTRUCTION	98	1-12-78	ISSUED FOR CONSTRUCTION	99	1-12-78	ISSUED FOR CONSTRUCTION	100	1-12-78	ISSUED FOR CONSTRUCTION

Also Available On
Aperture Card

LEGEND:

- ISI CLASS 2 PIPING
- - - ISI CLASS 3 PIPING
- RHVS REACTOR MAKE-UP VTD STOR TANK
- DV DEMINERALIZED WATER
- CCWS COMPONENT COOLING WATER SUPPLY
- VHT VASTE 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 DWG:
1. P&ID DIAGRAM SPENT FUEL 1XN08190
COOLING & PURIFICATION
SYSTEM NO. 1219

SYSTEM HYDROSTATIC TEST			
BOUNDARY NO.	TEST PRESSURE (PSIG)	VENT	CHARGE
066			
111			
112			
113			
114			
115			

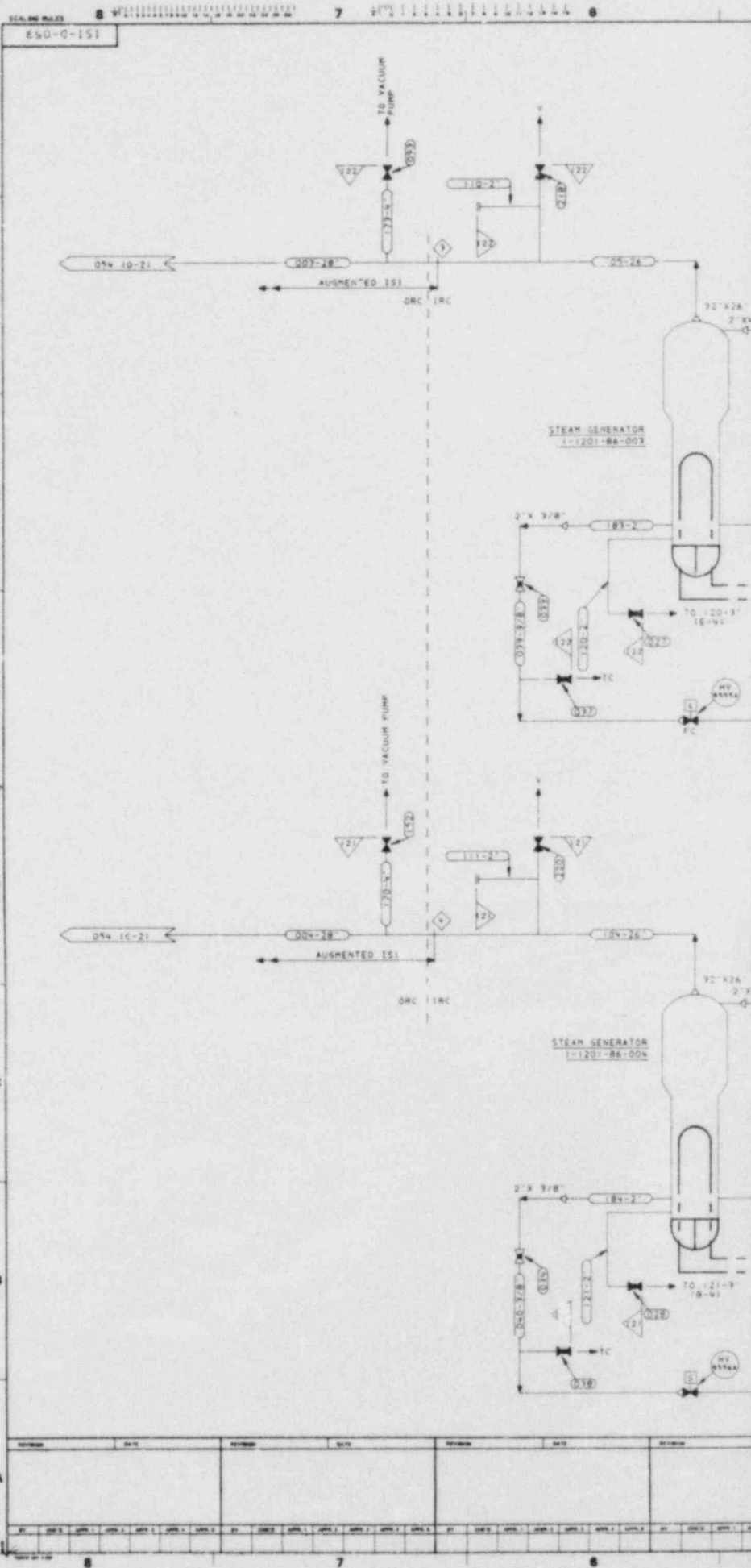
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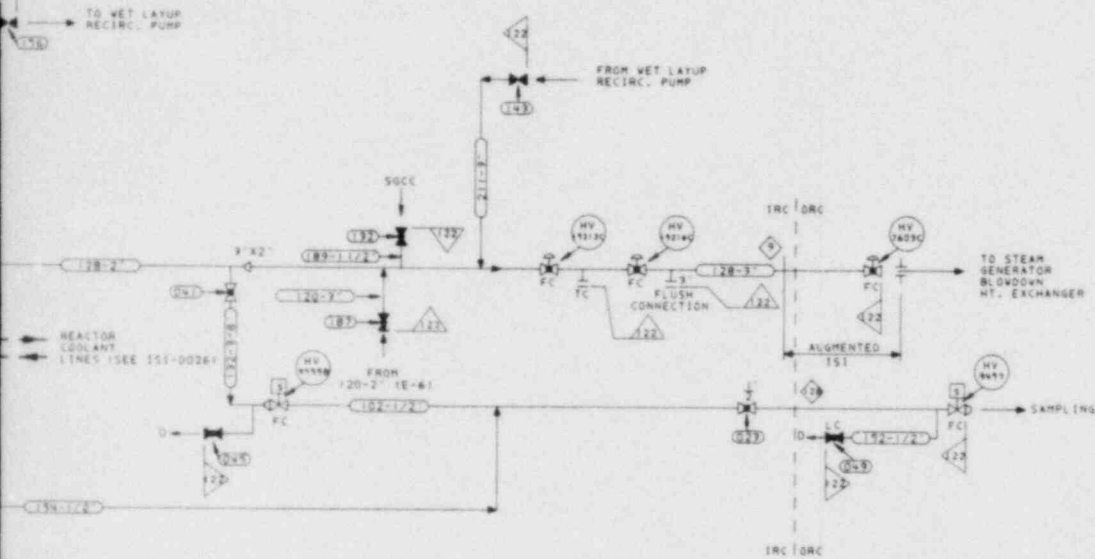
Southern Company Services, Inc.	
GEORGIA POWER COMPANY	
VOGTLE ELEC GENERATING PLANT	
UNIT 1	
INSERVICE INSPECTION PIPING	
CLASSIFICATION	
SPENT FUEL COOLING & PURIFICATION SYSTEM NO. 1219	
DATE: 7-1	BY: ASS-B
NO SCALE	151-D-04N 0

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Also Available On
Aperture Card



LEGEND:

- ISI CLASS 1 PIPING
- ISI CLASS 2 PIPING
- NON - ISI
- V VENT
- ◇ CONTAINMENT PENETRATION
- IRC INSIDE REACTOR CONTAINMENT
- ORC OUTSIDE REACTOR CONTAINMENT
- TC TEST CONNECTION
- SGCC STEAM GENERATOR CHEMICAL CLEANING
- △ PIPE RESTRAINT
- △ HYDRO BOUNDARY

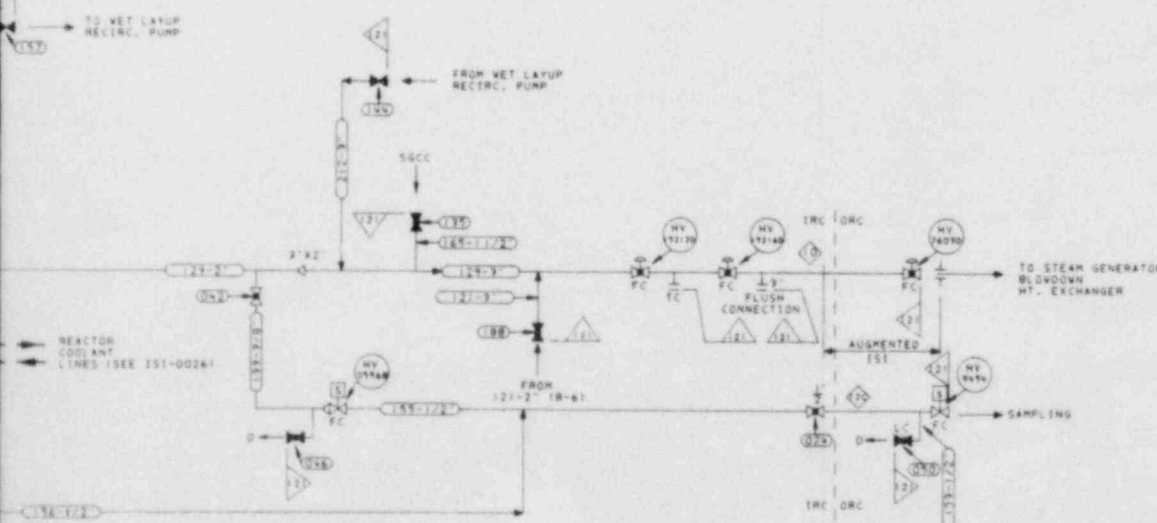
REFERENCES:

P & I D MAIN STEAM SYSTEM - 1901
1X408199-1

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESSURE (PSI)	VENT	CHARGE
121			
122			

NOTES:



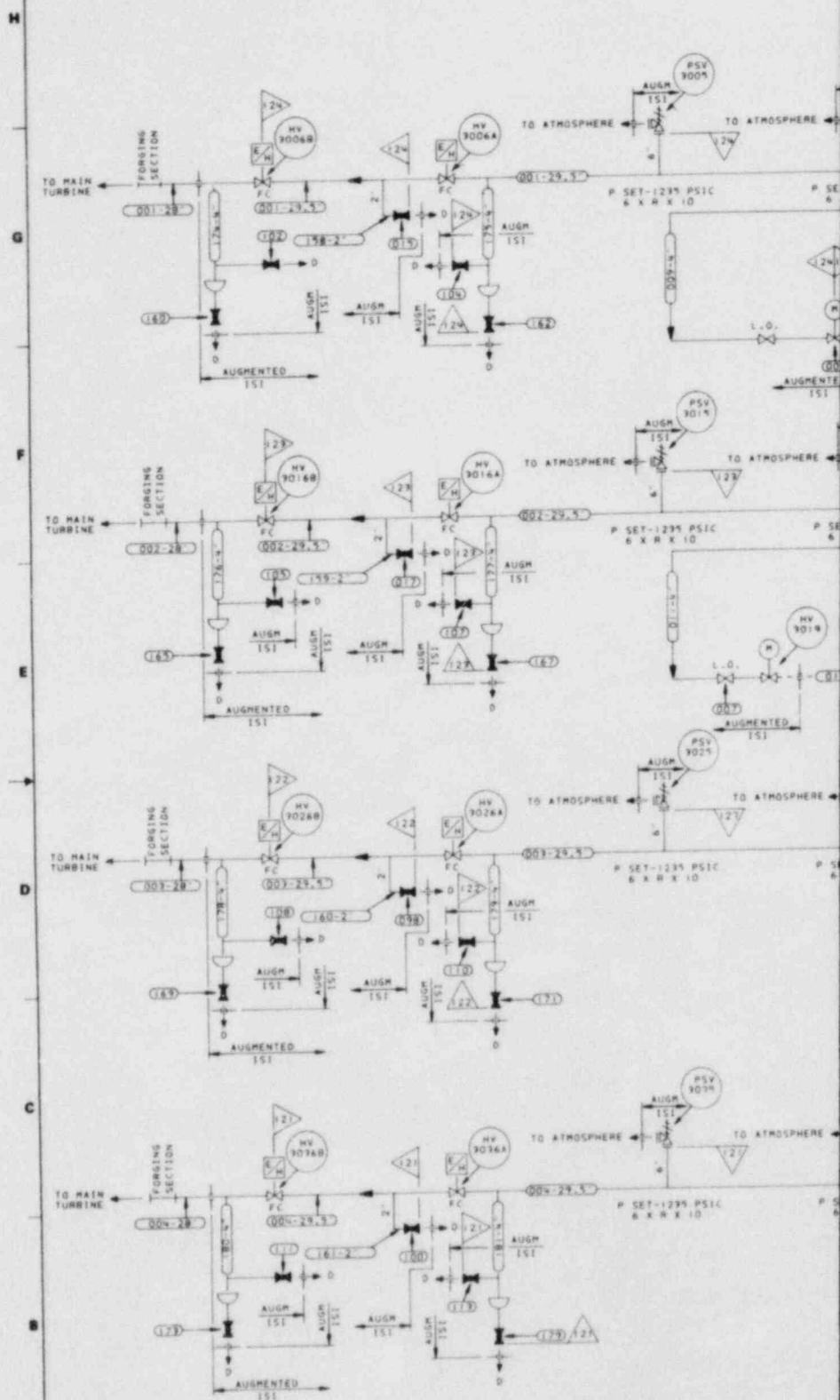
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APERTURE
CARD

Southern Company Services, Inc.	
GEORGIA POWER COMPANY	
WAGLE ELEC. GENERATING PLANT	
UNIT 1	
INSERVICE INSPECTION	
PIPING CLASSIFICATION	
MAIN STEAM SYSTEM-1901	
REVISION 1	DATE 9-20-87
ISSUED FOR PSI PROGRAM	
REVISION 2	DATE
REVISION 3	DATE
REVISION 4	DATE
REVISION 5	DATE
REVISION 6	DATE
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8405090063

-25

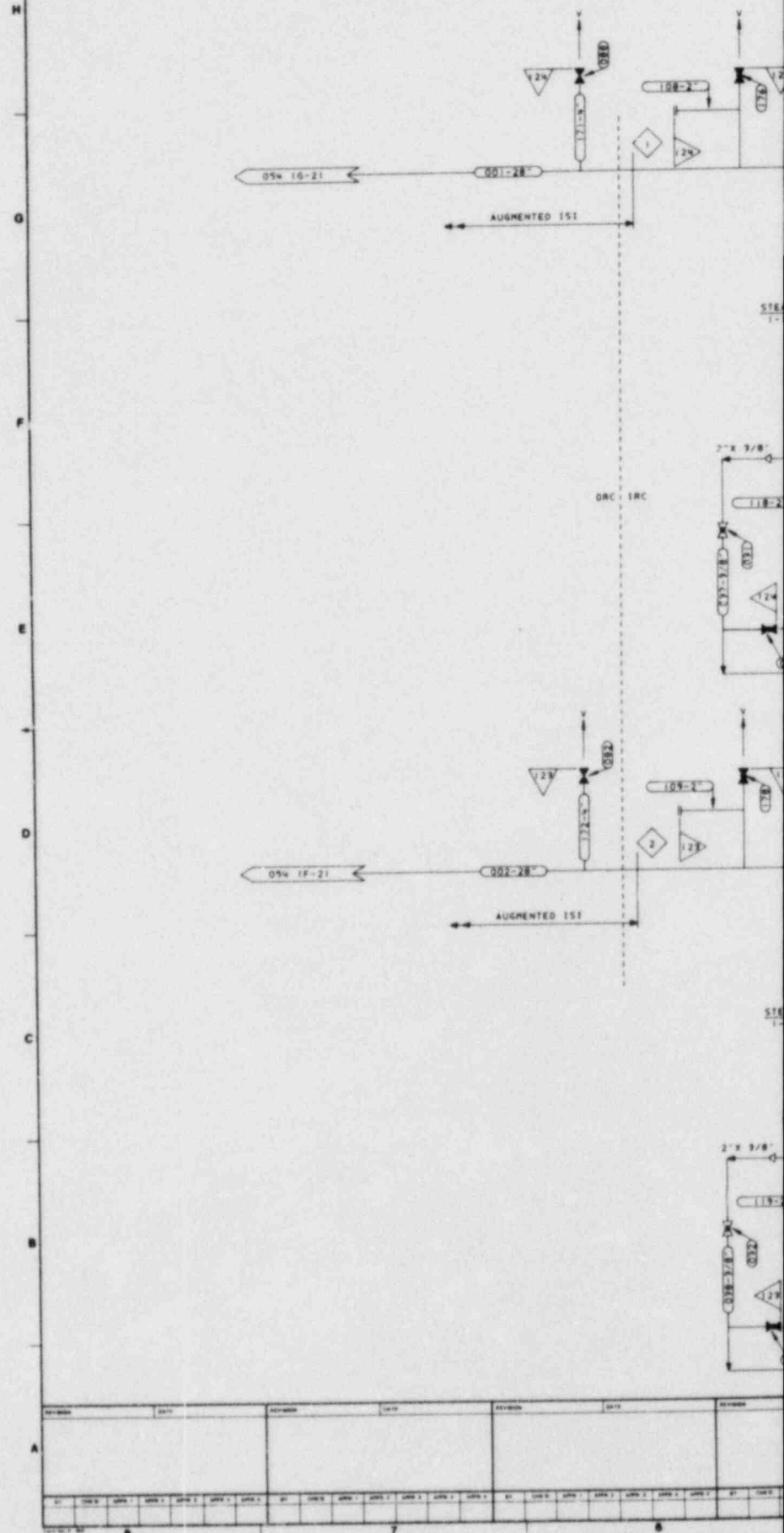
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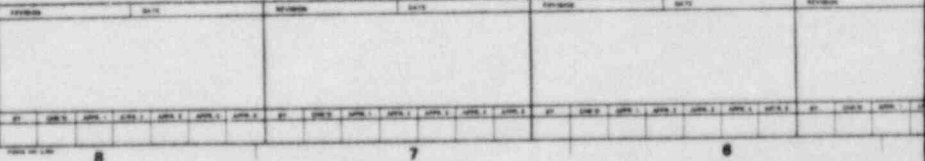


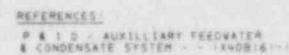
Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
WAGTLE ELEC. GENERATING PLANT			
UNIT 1			
INSERVICE INSPECT			
PIPING CLASSIFICA			
MAIN STEAM SYSTEM-1A			
PERFORMED BY	DATE	CHECKED BY	DATE
W. HALL	11/15/83	W. HALL	11/15/83
1	2	3	4

660-Q-151



4



[illegible]

NOTES

TI
APERTURE
CARD

Q97 1C-B	FROM TRN. B PUMP RECIRCULATION
Q97 1B-B	FROM TRN. A PUMP RECIRCULATION
Q97 1F-B	TO AUX FEEDWATER PUMP TRAIN C
Q97 1D-B	TO AUX FEEDWATER PUMP TRAIN B
Q97 1E-B	TO AUX FEEDWATER PUMP TRAIN A

[illegible]

Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOATLE ELEC. GENERATING PLANT			
INSERVICE INSPECTION			
PIPING CLASSIFICATION			
AUXILIARY FEEDWATER &			
CONDENSATE STORAGE			
SYSTEM - 1902			
CONTRACT #	WORK ORDER #	ORDERED BY	
NO.	PROJECT #	APPROVING MANAGER	DATE
10		TSI-0-056	0

4

6

1

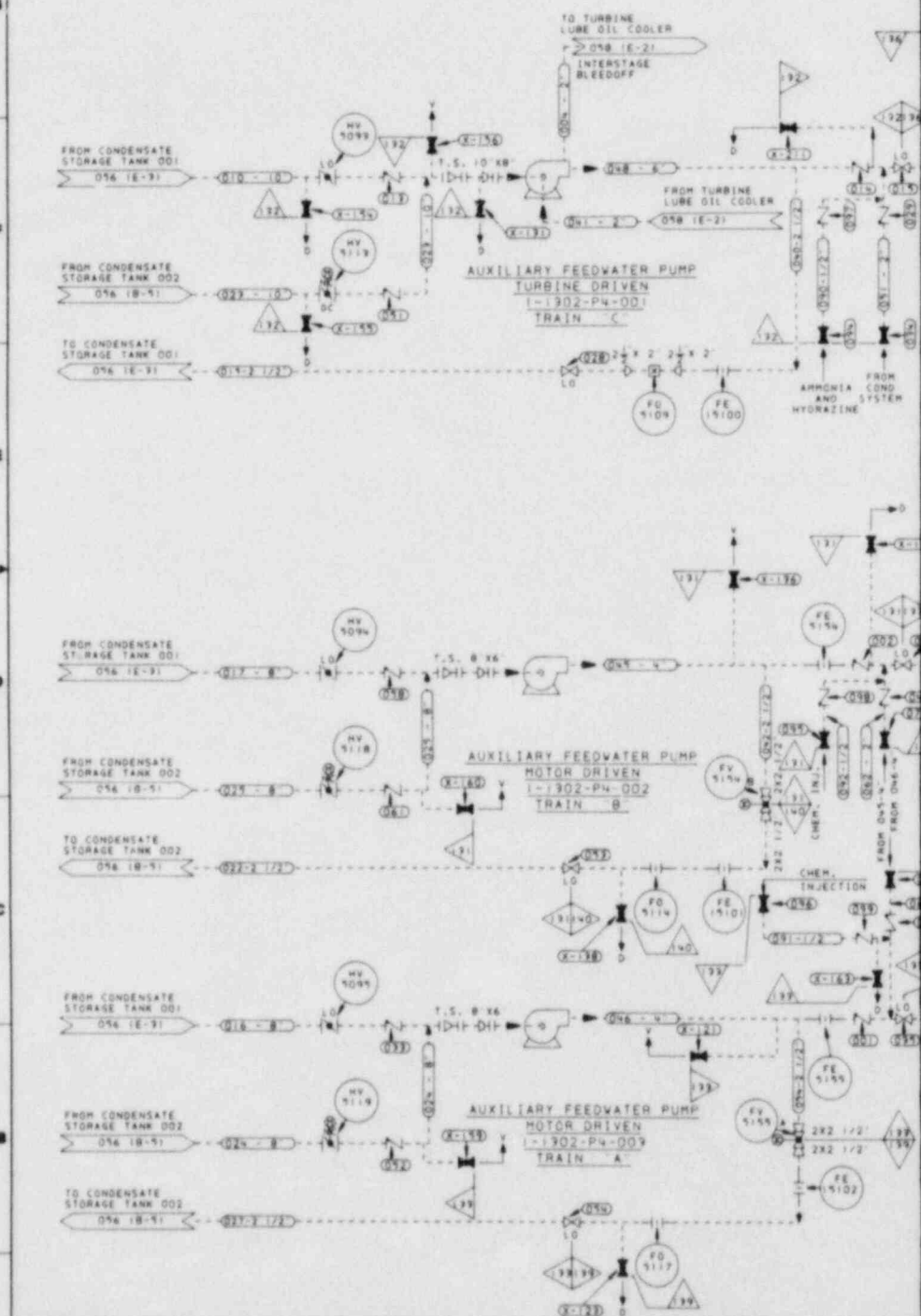
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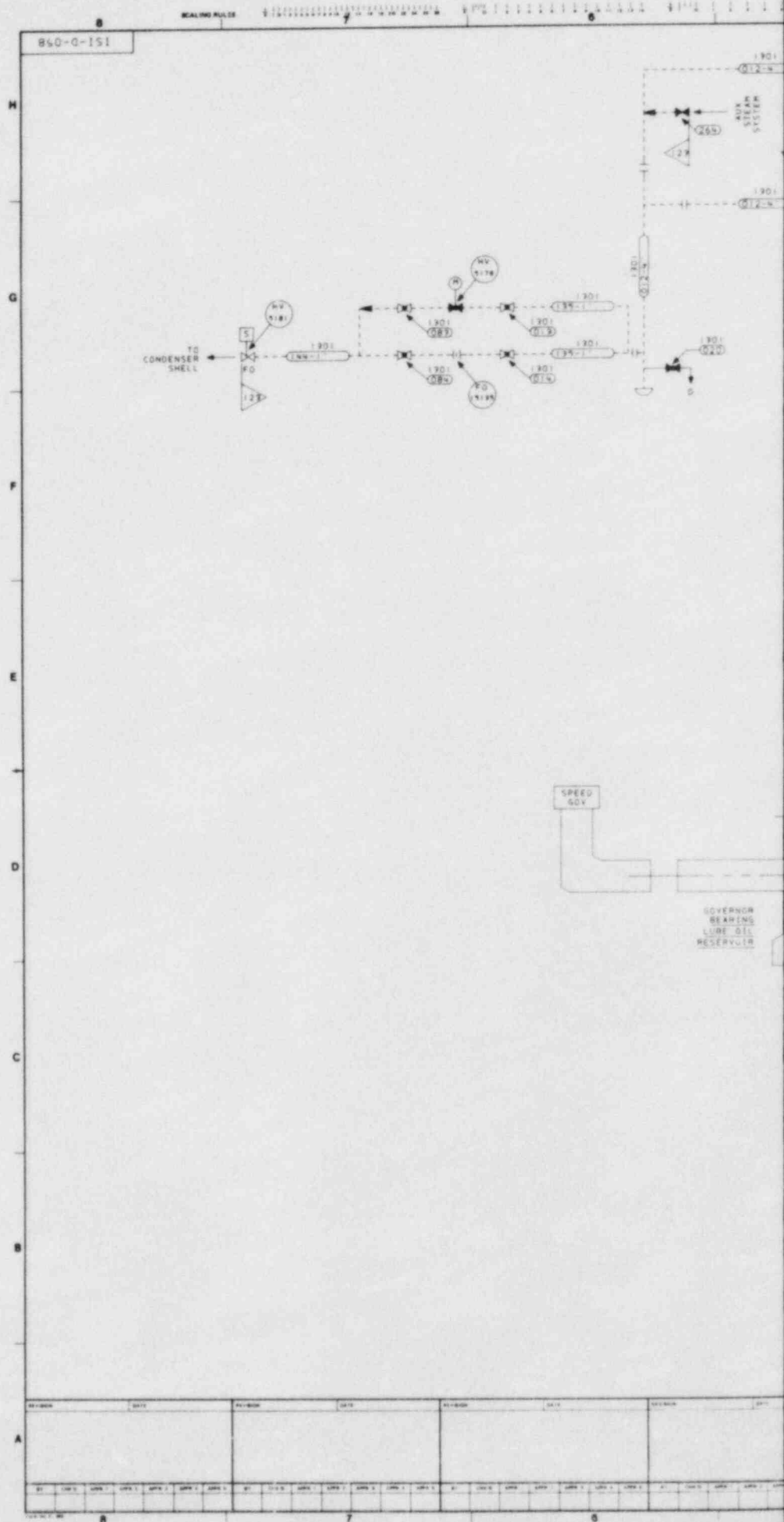
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2

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1

[illegible]



Also Available On
Aperture Card

TI 'APERTURE' CARD

LEGEND

- 151 CLASS 3 PIPING
- MOTOR OPERATED
- DRAIN
- VENT
- HYDRO BOUNDARY

REFERENCES

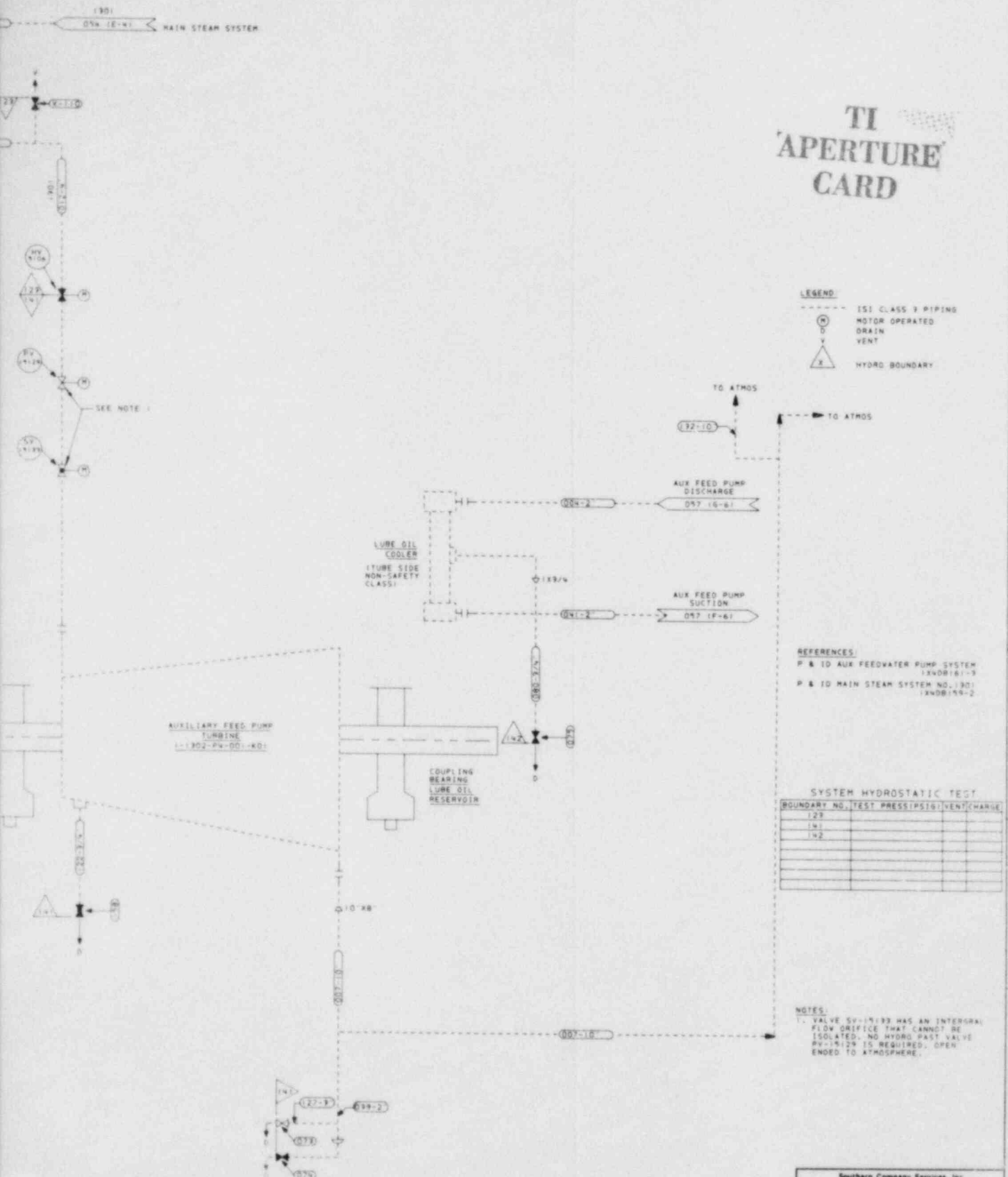
- P & ID AUX FEEDWATER PUMP SYSTEM
1XND0161-9
- P & ID MAIN STEAM SYSTEM NO. 1301
1XND0155-2

SYSTEM HYDROSTATIC TEST

BOUNDARY NO.	TEST PRESS (PSIG)	VENT/CHARGE
123		
121		
142		

NOTES

1. VALVE SV-14129 HAS AN INTEGRAL FLOW ORIFICE THAT CANNOT BE ISOLATED. NO HYDRO PAST VALVE PV-14129 IS REQUIRED. OPEN ENDED TO ATMOSPHERE.



Southern Company Services, Inc.									
GEORGIA POWER COMPANY									
VOGTLE ELECTRIC GENERATING PLANT - UNIT NO. 1									
INSERVICE INSPECTION PIPING CLASSIFICATION									
AUX FEEDWATER PUMP SYSTEM - 1972									
REVISION 01									
DRAWN: ADS-B									
CHECKED: [Signature]									
SCALE: 1/2" = 1'-0"									

8405090063 - 30

640-0-151

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G

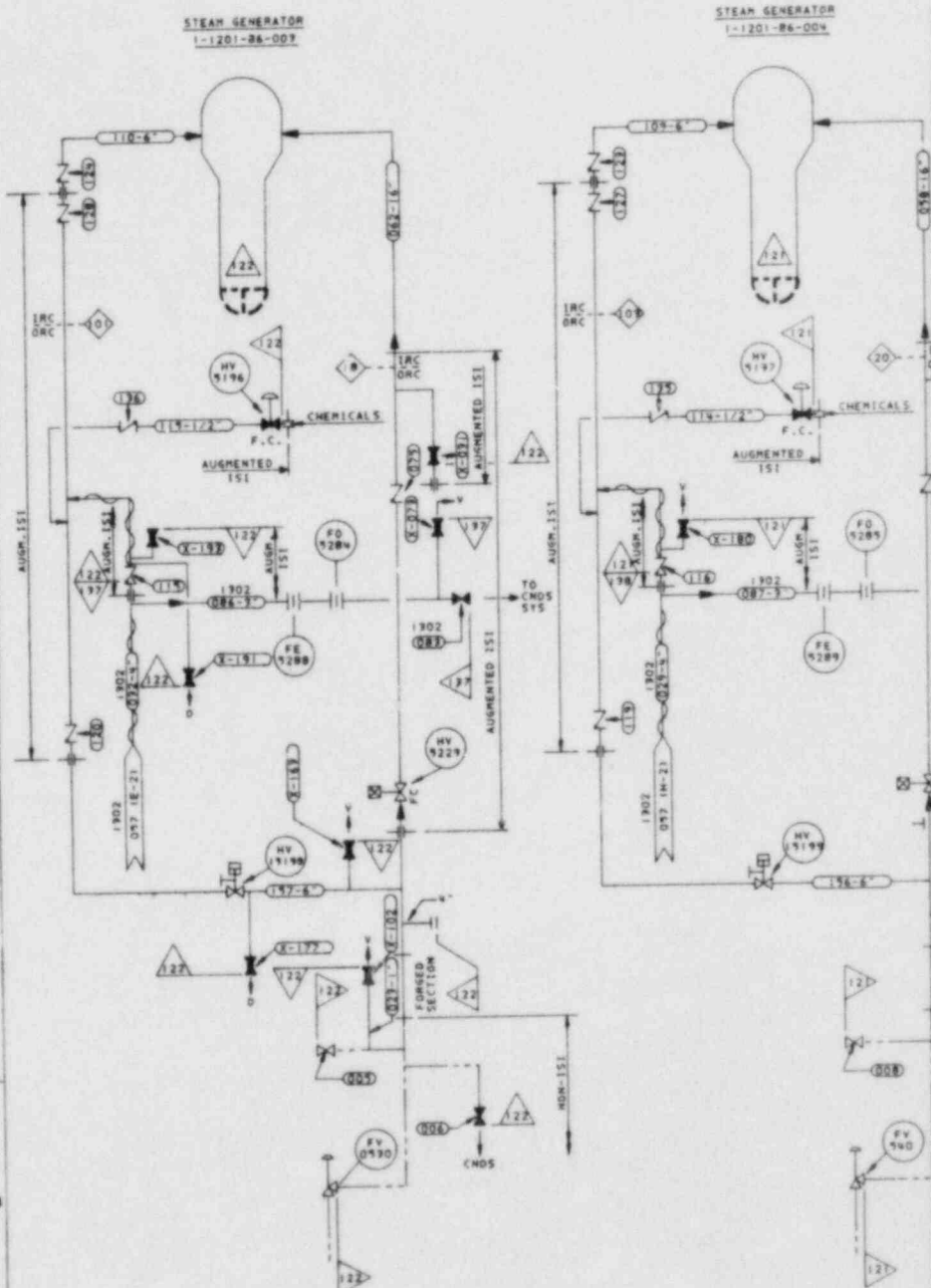
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C

58

4

[illegible]



REFERENCES:
I.P. & ID CONDENSATE & FEEDWATER
SYSTEM - - - - - 1X408160-2

NOTES

[illegible]

Southern Company Services, Inc.			
GEORGIA POWER COMPANY			
VOGTE ELECTRIC GENERATING PLANT - UNIT 1			
INSERVICE INSPECTION PIPING CLASSIFICATION CONDENSATE & FEEDWATER SYSTEM - 1905			
ORIGINAL	KT	CLARK A05-10	CHICKS PG
1	NO 2	151-D-099	

G

F

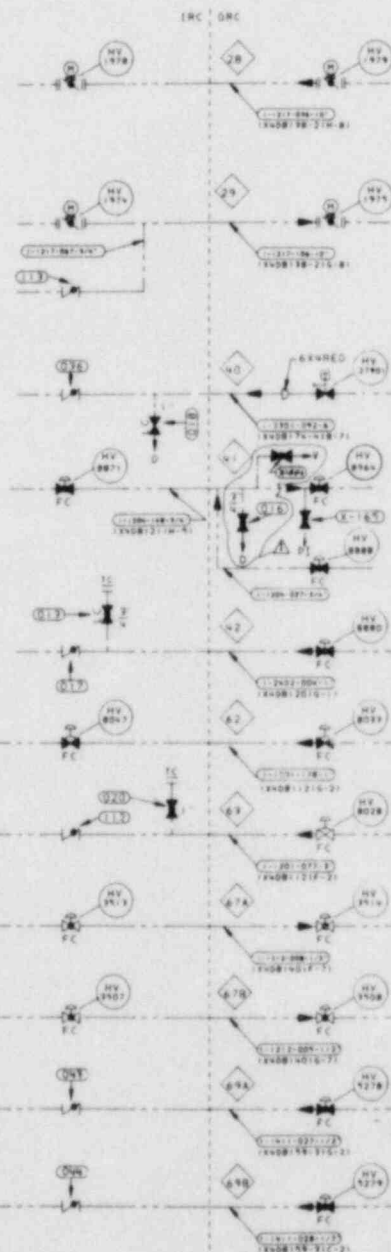
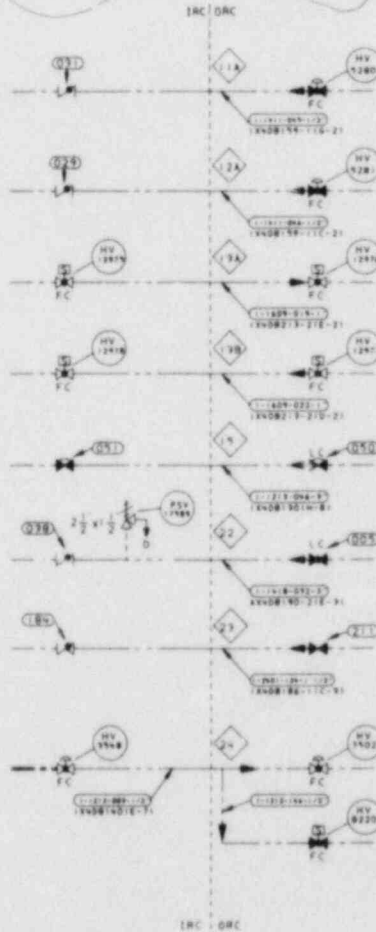
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