



**PRESERVICE INSPECTION SUMMARY REPORT  
FOR CLASS 1 AND CLASS 2  
PRESSURE RETAINING COMPONENTS**

at the

**SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION-UNIT 2**

P.O. Box 308  
Bay City, Texas 77414

**VOLUME I**

Owner: Houston Lighting & Power Company  
City Public Service Board  
of San Antonio  
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PRESERVICE INSPECTION SUMMARY REPORT  
FOR CLASS 1 AND CLASS 2  
PRESSURE RETAINING COMPONENTS

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

UNIT NO. 2

UPPER LOCKET NO.: 50-499

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## LIST OF ABBREVIATIONS

ANII	-	Authorized Nuclear Inservice Inspector
ASME	-	American Society of Mechanical Engineers
BEZ	-	Break Exclusion Zone
B&PV	-	Boiler and Pressure Vessel Code
CCSS	-	Centrifugally Cast Stainless Steel
CFR	-	Code of Federal Regulations
CNF	-	Customer Notification form
CRD	-	Control Rod Drive
FSAR	-	Final Safety Analysis Report
HHSI	-	High Head Safety Injection
HL&P	-	Houston Lighting & Power Company
ID	-	Inside Diameter
IGSCC	-	Intergranular Stress Corrosion Cracking
ISI	-	Inservice Inspection
LHSI	-	Low Head Safety Injection
Mech UT	-	Mechanized Ultrasonic Examination
MRCL	-	Main Reactor Coolant Loop
MT	-	Magnetic Particle Examination
NCR	-	Nonconformance Report
NDE	-	Nondestructive Examination
NDT	-	Nondestructive Testing
NPS	-	Nominal Pipe Size
NQAPM	-	Nuclear Quality Assurance Program Manual
NRC	-	Nuclear Regulatory Commission
OD	-	Outside Diameter
OQAP	-	Operations Quality Assurance Plan
PaR ISI-2	-	Reactor Vessel Examination Device
P&ID	-	Piping and Instrumentation Drawing
PSI	-	Preservice Inspection
PT	-	Liquid Penetrant Examination
QA	-	Quality Assurance
RCP	-	Reactor Coolant Pump
RHR	-	Residual Heat Removal
RL	-	Refracted Longitudinal
RPV	-	Reactor Pressure Vessel
SCSS	-	Static Cast Stainless Steel
SDAS	-	Standard Data Acquisition System
SER	-	Safety Evaluation Report
SRP	-	Standard Review Plan
SS	-	Stainless Steel
STPEGS	-	South Texas Project Electric Generating Station
SwRI	-	Southwest Research Institute
UT	-	Ultrasonic Examination
VT	-	Visual Examination

## 1.0 INTRODUCTION

### 1.1 Scope of Summary Report

This document is the Summary Report for preservice inspection (PSI) examinations of Class 1 and Class 2 pressure retaining components of the South Texas Project Electric Generating Station, Unit 2 (STPEGS-2). This report summarizes the PSI examinations conducted in accordance with Title 10, Code of Federal Regulations, Part 50 (10CFR50), the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code Section XI, and specified regulatory, Code, and project documents as described in Section 2.0. This Summary Report has been prepared in accordance with IWA-6000 of Section XI.

This Summary Report reviews the bases for the PSI program and describes the scope of PSI examination in terms of specific systems, components, and examination areas. The major elements of the nondestructive examination (NDE) system, including personnel qualification, procedures, calibration blocks, equipment and materials, are discussed and documented. The PSI examinations performed, the results of these examinations, corrective actions taken, and disposition of examination results are documented herein. Certifications of the PSI examinations by the Authorized Nuclear Inservice Inspector (ANII) on NIS-1 forms are also included.

This Summary Report documents the PSI examinations required by Subsections IWA, IWB, and IWC of Section XI for Class 1 and Class 2 pressure retaining components except (1) eddy current examination of Steam Generator tubing and (2) visual examinations for leakage of Class 1 components during a system leakage test. The PSI summary report for eddy current examination of STPEGS-2 Steam Generator tube was submitted to the Nuclear Regulatory Commission (NRC) on September 2, 1988. The PSI summary report for visual examination for leakage of STPEGS-2 Class 1 components will be submitted after these examinations are completed. The PSI examinations required by Subsection IWF of Section XI on component supports of Class 1, 2, and 3 components will be documented in a separate summary report.

### 1.2 Description of the Plant

The South Texas Project Electric Generating Station is located near Wadsworth, Texas. The plant NRC Docket Number for STPEGS-2 is 50-499. The station is a two (2) unit pressurized water reactor plant. Each reactor is a Westinghouse 4-loop system. The rated output of each unit is 1,250 MWe. Unit 2 is scheduled to enter commercial operation in June 1989.

### 1.3 Preparation for PSI

Preparations for the STPEGS PSI/in-service inspection (ISI) program began approximately 10 years ago when Houston Lighting & Power Company (HL&P) contacted with Southwest Research Institute (SwRI) of San Antonio, Texas, to perform an access design review of Class 1 and 2 components to facilitate and ensure accessibility and inspectability of components subject to PSI/ISI examination. Access and design considerations (e.g., elimination of fitting-to-fitting welds), welding procedure criteria [e.g., 2 T (T = weld thickness) counterbore and weld crown preparation], insulation design criteria, and other considerations recommended by SwRI were incorporated into plant design drawings and specifications. Incorporation of these PSI/ISI-related plant design and construction criteria have helped assure that

existing Code and regulatory inspection requirements can be performed economically while enhancing the technical quality of the examinations and minimizing radiation exposure.

HL&P has contracted with SwRI to conduct PSI/ISI examinations of Class 1 and 2 pressure retaining components (i.e., welds and other examination areas as described herein) of STPEGS-1 and -2. HL&P provided SwRI with plant design documents [e.g., piping and instrumentation drawings (P&IDs), isometric drawings, line lists, specifications, etc.] with which to prepare the Unit 2 PSI examination plan. Utilizing these materials, SWRI applied the Code, regulatory, and augmented inspection criteria specified by HL&P to develop the STPEGS-2 PSI examination plan as well as a separate plan for mechanized examination of the reactor pressure vessel (RPV). These plans were reviewed and approved by HL&P and submitted to the NRC, State of Texas, and the ANII. SwRI operating procedures, NDE procedures, and calibration block design drawings (and deviations and revisions thereto) were approved by HL&P prior<sup>1</sup> to their use (procedures) or fabrication (blocks).

#### 1.4 Scheduling of PSI Examinations

The STPEGS-2 PSI examinations were conducted between May 1987 and March 1988. All PSI examinations of Class 1 and 2 pressure retaining components have been completed and are summarized herein.

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<sup>1</sup>Due to an oversight, SwRI NDT Procedure SwRI-NDT-800-114, Revision 2, was used for PSI examinations without formal HL&P approval. This oversight was addressed in SwRI Deviation and Nonconformance Report No. 88-050 and the procedure was approved by HL&P as documented in Appendix C.



## 2.0 BASES DOCUMENTS FOR PSI EXAMINATIONS

### 2.1 Applicable Documents

The following documents were used to develop, implement, and document the STPEGS-2 PSI program:

- 2.1.1 Title 10, Code of Federal Regulations, Part 50, Article 55a (10CFR50.55a), "Codes and Standards."
- 2.1.2 Section XI of the ASME B&PV Code, "Rules for Inservice Inspection of Nuclear Power Plant Components," 1980 Edition with Addenda through Winter 1981 (80W81).
- 2.1.3 Section XI of the ASME B&PV Code, 1974 Edition with Addenda through Summer 1975 (74S75) as applicable (per 10CFR50.55a) to Class 2 piping.
- 2.1.4 Section XI of the ASME B&PV Code, 1983 Edition with Addenda through Winter 1983 (83W83) as applicable to augmented inspection of Class 2 piping.
- 2.1.5 Section V of the ASME B&PV Code, "Nondestructive Examination," 1980 Edition with Addenda through Winter 1981 (80W81).
- 2.1.6 Regulatory Guide 1.14, Revision 1, "Reactor Coolant Pump Flywheel Integrity."
- 2.1.7 Regulatory Guide 1.65, Revision 0, "Materials and Inspection for Reactor Vessel Closure Studs."
- 2.1.8 Regulatory Guide 1.147, (Latest Revision), "Inservice Inspection Code Case Acceptability - ASME Section XI, Division 1."
- 2.1.9 Regulatory Guide 1.150, Revision 1, "Ultrasonic Testing of Reactor Vessel Welds During Preservice and Inservice Examinations - Appendix A."
- 2.1.10 NUREG 0800, Standard Review Plan (SRP) 3.6.1, "Plant Design For Protection Against Postulated Piping Failures In Fluid Systems Outside Containment."
- 2.1.11 Code Case N-307-1, "Revised Ultrasonic Examination Volume for Class 1 Bolting, Table IWB-2500-1, Examination Category B-G-1, When the Examinations Are Conducted From the Center-Drilled Hole."
- 2.1.12 Code Case N-343, "Alternative Scope of Examination of Attachment Welds for Examination Categories B-H, B-K-1, and C-C, Section XI, Division 1."
- 2.1.13 ASME Section XI Interpretation No. XI-1-83-80, "Section XI, Division 1, Table IWC-2500-1, Examination of Pipe Longitudinal Welds in Class 2 Pipe Fittings."

- 2.1.14 ASME Section XI Interpretation No. XI-1-86-20, 'Section XI, Division 1, IWB-2200 and Table IWB-2500-1, Preservice Examination of Pumps' and Valves' Internal Surfaces.'
- 2.1.15 HL&P Requests for Relief from Section XI Requirements (see Section 2.2).
- 2.1.16 HL&P Specification No. 4UH01HWS0002, Revision 1, 'South Texas Project Electric Generating Station Specification for Section XI Preservice NDE Examination.'
- 2.1.17 HL&P Operations Quality Assurance Plan (OQAP), Latest Revision.
- 2.1.18 SwRI Plan, 'Examination Plan for the Preservice Examination of Selected Components and Piping of the South Texas Project Electric Generating Station, Unit 2.'
- 2.1.19 SwRI Plan, 'Scan Plan for the Mechanized Ultrasonic Examination of Selected Areas of the South Texas Project Electric Generating Station, Unit 2.'
- 2.1.20 SwRI Nuclear Quality Assurance Program Manual (NQAPM), Revision 2, with all applicable changes.
- 2.1.21 SwRI Plan, 84-HLP-STP-1-1-0, Project 17-5770 and 17-1480, 'Project Plan for the Preservice Examination of South Texas Project Electric Generating Station, Unit 1 and 2,' with all applicable changes.
- 2.1.22 SwRI Report, 'Final Report for the Preservice Examination of Selected Class 1 and Class 2 Components at the South Texas Project Electric Generating Station, Unit 2.'

## 2.2 Discussion of Bases Documents

The STPEGS-2 PSI program was developed in accordance with Section XI as required by 10CFR50.55a. The Section XI Code vintage used for PSI (i.e., 80W81) is in excess of 10CFR50.55a requirements. The 80W81 Section XI Code was the latest edition/addenda of Section XI referenced by 10CFR50.55a(b)(2) when the PSI examination plan was developed. The 74S75 Section XI Code was used to determine the extent of PSI for Class 2 piping welds as required by 10CFR50.55a(b)(2)(iv). The 83W83 Section XI Code was utilized as the basis for augmented PSI examinations of some Class 2 system piping welds as described in Section 3.3. The 80W81 Section V Code was used for NDE requirements when Section V Articles were referenced by Section XI.

Regulatory Guide 1.14, 1.65, and 1.150 (Appendix A) were incorporated in the PSI program for examination of the RCP flywheels, RPV studs, and RPV welds, respectively. Regulatory Guide 1.147 documents NRC acceptance of the Code Cases listed in Section 2.1. SRP 3.6.1 was incorporated into the PSI/ISI program for augmented inspection of portions of high-energy piping of the Main Steam (MS) and Feedwater (FW) systems as described in Section 3.3.1.

Code Case N-307-1 was adopted and applied to the RPV "Roto-Lok" studs and the RCP studs. Code Case N-343 was adopted and applied to exempt the stiffening rings integrally attached to the Residual Heat Removal (RHR) Heat Exchanger nozzles. Both these Code Cases have been approved by the NRC in Regulatory Guide 1.147.

ASME interpretation XI-1-83-80 was utilized to clarify the scope of examinations required by Section XI on Class 2 pipe fitting longitudinal welds. Interpretation XI-1-86-20 was utilized to clarify the Section XI requirements for PSI visual examination of the internal surfaces of Class 1 pumps and valves.

During the performance of STPEGS-1 and -2 PSI examinations, requests for relief from Section XI requirements were filed with NRC pursuant to 10CFR50.55a. The relief requests applicable to the scope of STPEGS-2 PSI examinations contained herein are listed and summarized in Table 1. NRC approval of relief request Nos. RR-ENG-01, -03, and -06 is documented in prior supplements to the STPEGS Safety Evaluation Report (SER). NRC approval of relief request No. RR-ENG-07 is expected in a forthcoming supplement to the SER. If relief request No. RR-ENG-07 is not approved, additional PSI examination will be performed as necessary and the results submitted as an amendment to this Summary Report.

HL&P specification No. 4UH01HWS0002 (2.1.16), included in the HL&P - SwRI contract for PSI/ISI examination services, controls the development and implementation of the PSI/ISI program for the scope of work assigned to SwRI. The HL&P OQAP (2.1.17) contains the quality assurance (QA) program requirements applicable to the PSI/ISI program. References 2.1.18 and 2.1.19 are the PSI examination plans developed by SwRI for STPEGS-2. References 2.1.20 and 2.1.21 are the SwRI QA program manual and implementing QA project plan, respectively. These vendor QA documents have been approved by the HL&P QA department. The SwRI final report (2.1.22) documents the STPEGS-2 PSI examinations performed by SwRI, including the bases; scope and extent of examinations; examination methods; NDE and operating procedures; personnel, equipment, and material certifications; ultrasonic examination (UT) calibration blocks; weld identification figures; examination summary tables; examination results; evaluation and disposition of results; examination limitations; and copies of examination data.

TABLE 1

Summary of Applicable Relief Requests

<u>Relief Request No.</u>	<u>Description</u>
RR-ENG-01	Requests exemption of open-ended portions of the Containment Spray (CS) system beyond the containment isolation valves (Class 2 components and their supports).
RR-ENG-03	Requests exemption of the inside radius section of the Steam Generator main steam nozzles due to the nozzle configuration.
RR-ENG-06	Requests exemption of surface examination on a portion of the Pressurizer support skirt weld due to inaccessibility within the skirt; alternative UT examination proposed in lieu of the exempted surface examination.
RR-ENG-07	Provides documentation of limitations to Code-required examination volumes and surfaces experienced during PSI. (Note: This material is included in Appendices K and L of this report.)

### 3.0 SCOPE OF PSI EXAMINATIONS

The scope of ASME Code Class 1 and Class 2 components included within the STPEGS-2 PSI examination program was determined by applying the rules and requirements of the 80W81 Section XI Code and the 74S75 Section XI Code as required by 10CFR50.55a(b)(2)(iv) for specified Class 2 piping welds. Additional components were examined during the PSI program based on Regulatory Guides and augmented PSI examination programs for Class 2 components as described below. The scope and extent of PSI examination were further defined by Section XI Code Cases, Interpretations, and Requests for Relief as discussed in Section 2.2.

#### 3.1 Class 1 Components

Components classified as ASME Code Class 1 by project design documents were selected for PSI examination in accordance with the requirements of Subsections IWA and IWB of 80W81 Section XI Code. In accordance with Paragraph IWB-2200(a), this included essentially 100 percent of the pressure retaining welds in all Class 1 components, except in those components which are exempted from examination by IWB-1220(a), (b), and (c). In the case of Examination Category B-0 [control rod drive (CRD) housing welds], the examinations included 100 percent of the installed peripheral control rod drive housings only in accordance with IWB-2200(a).

Class 1 components were considered exempt from NDE during PSI if they met the exemption criteria of IWB-1220 of the 80W81 Section XI Code as follows:

<u>Component</u>	<u>Section XI Exemption Criteria</u>
Components connected to and part of the reactor coolant pressure boundary which qualify for exemption under specified makeup capacity criteria.	IWB-1220(a)
Piping $\leq$ one inch nominal pipe size (NPS1) except for steam generator tubing.	IWB-1220(b) (1)
Components and their connections in piping $\leq$ NPS1.	IWB-1220(b) (2)
RPV head connections and associated piping $\leq$ NPS2 made inaccessible by CRD penetrations.	IWB-1220(c)

The following Class 1 components and systems were included in the STPEGS-2 PSI program:

- Reactor Pressure Vessel
- Pressurizer
- Steam Generators (Primary Side)
- Reactor Coolant (RC) System Piping
- Chemical & Volume Control (CV) System Piping

Residual Heat Removal (RH) System Piping  
Safety Injection (SI) System Piping  
Reactor Coolant Pumps  
Valves

### 3.2 Class 2 Components

Components classified as ASME Code Class 2 by project design documents were selected for PSI examination in accordance with Subsections IWA and IWC of 80W81 Section XI Code. However, the extent of examination of piping welds within the Class 2 portions of RH, SI, and CS systems was determined in accordance with the requirements of 74S75 Section XI Code as required by 10CFR50.55a(b)(2)(iv). Additional Class 2 piping welds were selected for PSI examination under the augmented inspection programs (see Section 3.C).

Class 2 components were selected for PSI examination in accordance with the requirements of IWC-1220 (exemption criteria), IWC-2200 (PSI examination), and Table IWC-2500-1. Table 2 lists the Class 2 components exempted from PSI examination along with the IWC-1220 exemption criteria applied to each component or group of components.

The Class 2 components not included in Table 2 comprise the Class 2 nonexempt boundary. Applicable Section XI selection criteria were then applied to the nonexempt Class 2 components to determine the specific components (or specific types of welds within these components or systems) required to be examined during PSI.

In the case of multiple vessels of similar design, size, and service (such as Steam Generators and heat exchangers), the required examinations may be limited to one vessel or distributed among the vessels as allowed in Table IWC-2500-1 for Category C-A. However, all structural discontinuity, Category C-A welds in all nonexempt vessels were examined during PSI in order to obtain baseline data for comparison with potential ISI examination results. The criterion of footnote (1)(a) of Category C-F in Table IWC-2500-1 of the 80W81 Section XI Code was not applicable to the selection of piping welds for the Auxiliary Feedwater (AF), FW, MS, and Sludge Lancing (SL) systems. The stress levels do not exceed the levels specified in this footnote. Piping welds not selected for examination are included in Appendix I for accountability purposes. Welds that were not examined are identified in the "Remarks" column of Appendix I with the notation "NOT SELECTED FOR EXAMINATION." The examination methods applicable to all Class 2 systems (except High Head Safety Injection (HHSI) piping  $\leq$  NPS4) were in accordance with 80W81 Section XI (see Section 3.3.3 for HHSI examination requirements).

The following Class 2 components and systems were included in the STPEGS-2 PSI program:

Steam Generators (Secondary Side)  
Regenerative Heat Exchanger  
Residual Heat Removal Heat Exchangers (Primary Side)  
Letdown Heat Exchanger (Primary Side)  
Excess Letdown Heat Exchanger (Primary Side)  
Reactor Coolant Filters  
Seal Water Injection Filters

TABLE 2

Exempted Class 2 Components

<u>Component</u>	<u>Exemption Criterion</u>	<u>Section XI Code</u>
Accumulator Tanks	IWC-1220(a)	80W81
Volume Control Tank	IWC-1220(b)	80W81
Refueling Water Storage Tank	IWC-1220(a)	30W81
Seal Water Heat Exchanger	IWC-1220(b)	80W81
Seal Water Return Filter	IWC-1220(b)	80W81
Component connections, piping, valves, and vessels and their attachments $\leq$ NPS4 of AF, FW, MS, and SL systems	IWC-1220(c)	80W81
Component connections, piping, valves, and vessels and their supports $\leq$ NPS4 of RH, SI, and CS systems	IWC-1220(c)	74S75
Piping (except for RH, SI, and CS) and components with operating temperature $\leq$ 200 degrees F and operating pressure $\leq$ 275 psig	IWC-1220(b)	80W81
RH, SI, and CS piping with design temperature $\leq$ 200 degree F and design pressure $\leq$ 275 psig	IWC-1220(a)	74S75

Pulsation Damper  
Auxiliary Feedwater (AF) System Piping  
Containment Spray (CS) System Piping  
Feedwater (FW) System Piping  
Main Steam (MS) System Piping  
Residual Heat Removal (RH) System Piping  
Safety Injection (SI) System Piping  
Sludge Lancing (SL) System  
Containment Spray Pumps  
Residual Heat Removal Pumps  
Low Head Safety Injection Pumps  
High Head Safety Injection Pumps

### 3.3 Augmented PSI Programs

In addition to the Class 2 piping PSI requirements of the 80W81 Section XI Code (74S75 for RH, SI, and CS piping), several "augmented" PSI programs were also implemented. It was the intent of these programs to augment the basic PSI program and not to supersede any of the requirements of the 80W81 Section XI Code (74S75 for RH, SI, and CS piping). The "augmented" programs were organized into three separate and independent programs as follows:

#### 3.3.1 Augmented PSI - Break Exclusion Zone

A portion of the Class 2 piping of the MS and FW systems at the containment penetrations was classified as "break exclusion zone" (BEZ) piping. The BEZ extends from the inboard containment penetration forging weld to the first circumferential piping weld beyond the bending and torsional restraints at the Isolation Valve Cubicle north walls. The Class 2 piping welds (i.e., circumferential, longitudinal, and restraint lug welds) in the four MS and four FW lines within the BEZ are examined with UT techniques. These augmented PSI examinations were performed in compliance with the criteria of SRP 3.6.1 (see 2.1.10 above). Those welds which received volumetric examination in accordance with the BEZ augmented program are identified in the "Remarks" column of Appendix I with the notation "AUGMENTED PSI - BEZ."

#### 3.3.2 Augmented PSI - Volumetric Sample

After the selection criteria of the 74S75 Section XI Code and the examination method criteria of the 80W81 Section XI Code were applied to the piping welds of the RH, SI, and CS systems, an evaluation was performed to determine the number of nonexempt welds in accordance with the requirements of the 83W83 Section XI Code. If at least 7.5 percent of the nonexempt piping welds in each system were not volumetrically examined, a sufficient number of additional piping welds were volumetrically examined to provide a 7.5 percent volumetric examination sample of the nonexempt piping welds. These augmented PSI examinations were performed in compliance with HL&P commitments made in the STPEGS Final Safety Analysis Report (FSAR) in order to provide additional assurance of the structural integrity of RH, SI, and CS system piping welds. Those



welds which received volumetric examination in accordance with this program are identified in the "Remarks" column of Appendix I with the notation "AUGMENTED PSI - VOLUMETRIC SAMPLE."

### 3.3.3 Augmented PSI - Optional W83 Baseline

Class 2 piping systems were evaluated in accordance with the exemption and weld selection criteria of the 83W83 Section XI Code. Augmented PSI examinations were performed as necessary to obtain baseline data in accordance with 83W83 Section XI Code criteria. These augmented examinations were performed to obtain PSI data on piping welds expected to be within the scope of future ISI programs. Consequently, augmented PSI examinations were performed on AF and MS piping welds and small diameter (NPS2 through NPS4) HHSI piping welds. Those welds examined with volumetric and/or surface techniques in accordance with the 83W83 Section XI Code are identified in the "Remarks" column of Appendix I with the notation "AUGMENTED PSI - OPTIONAL W83 BASELINE."

### 3.4 Regulatory Guide Implementation

The following Regulatory Guides were implemented during the STPEGS-2 PSI as described below.

#### A. Regulatory Guide 1.14, Revision 1, "Reactor Coolant Pump Flywheel Integrity."

Regulatory Guide 1.14 requires the following reactor coolant pump (RCP) flywheel inservice examinations:

- (a) An in-place volumetric examination of the bore and keyway area at approximately 3-year intervals.
- (b) A 100 percent volumetric examination of the entire flywheel and surface examination of all exposed surfaces of the flywheel at approximately 10-year intervals.

An in-place, PSI volumetric examination of the bore and keyway was performed to serve as the baseline for the volumetric examinations required at approximately 3-year intervals (see Section 5.4).

#### B. Regulatory Guide 1.65, Revision 0, "Materials and Inspections for Reactor Vessel Closure Studs."

The RPV closure studs were examined in accordance with Regulatory Guide 1.65 as follows:

- (a) A surface examination was performed with the studs removed.
- (b) The surface examination was in accordance with NB-2583 of Section III of the ASME Code.

See Section 5.2.2 for a description of the NDE techniques applied to the RPV closure studs.

- C. Regulatory Guide 1.150, Revision 1, "Ultrasonic Testing of Reactor Vessel Welds During Preservice and Inservice Examinations."

PSI examinations were performed on the RPV in accordance with Appendix A of Regulatory Guide 1.150. The implementation details of this Regulatory Guide are included in Appendix J.

## 4.0 EXAMINATION PERSONNEL, PROCEDURES, AND EQUIPMENT

### 4.1 NDE Personnel Qualifications

All STPEGS-2 PSI examinations reported herein were performed by SwRI personnel qualified and certified in accordance with 80W81 Section XI Code requirements and SwRI's certification procedure for NDE personnel. Appendix A lists the qualification levels for the SwRI NDE personnel who performed examinations during the STPEGS-2 PSI. Certification records for these personnel were reviewed by HL&P QA personnel and the ANII during the PSI. Copies of these NDE certification records are included in the SwRI Final Report (see 2.1.22) and are available for inspection at the STPEGS site.

In addition to the Code-required qualification requirements discussed above, HL&P imposed augmented qualification requirements on SwRI NDE personnel performing UT examination of stainless steel (SS) piping welds. All SwRI Level II personnel conducting angle-beam examinations of SS piping welds were required to have been qualified for Intergranular Stress Corrosion Cracking (IGSCC) detection by EPRI.

### 4.2 SwRI Operating and NDE Procedures

The SwRI operating procedures and NDE procedures listed in Appendices B and C, respectively, were utilized by SwRI to perform STPEGS-2 PSI examinations. These procedures were approved by HL&P in accordance with HL&P project procedures controlling safety-related activities.

### 4.3 Ultrasonic Calibration Blocks

A total of eighty-seven (87) calibration blocks and mockups were utilized to perform UT examinations during PSI of STPEGS-2 as documented in Appendix D. These blocks and mockups (with the exception of the first five (5) vessel blocks listed in Appendix D which were supplied by Westinghouse with the RPV) were designed and fabricated by SwRI. Design drawings were approved by HL&P prior to fabrication. The design of the STPEGS calibration blocks comply with 80W81 Section XI Code requirements and those of referenced Articles of 80W81 Section V. Calibration blocks for both carbon steel and SS piping welds were procured on the basis of Appendix III of Section XI. A separate calibration block was procured for each unique combination of pipe size (i.e., NPS), thickness or schedule, material specification, and product form. Although exceeding the Code requirements for SS material, HL&P believed these additional SS calibration blocks were required for the technical adequacy of these UT examinations.

### 4.4 NDE Materials and Equipment

Materials and equipment used during PSI were certified and/or calibrated in accordance with SwRI procedures. Appendix E is a listing of materials and equipment used during PSI, including applicable identification numbers and the dates of certification by SwRI.

## 3.0 SUMMARY OF EXAMINATIONS

### 5.1 Overview

PSI examinations were performed on all major Class 1 components including the RPV, Pressurizer, Steam Generators (primary head), RC pumps, valves > NPS1 with pressure retaining welds or bolting, and piping > NPS1. PSI examinations were also performed on several Class 2 components including Steam Generators (secondary side), heat exchangers, filters, pumps, and high pressure-temperature piping > NPS4 (>NPS2 for HHSL).

Overall, approximately 2000 welds were examined by one or more NDE methods during PSI. Piping welds comprised about 80 percent of the PSI examination scope with approximately 550 Class 1 welds and 1100 Class 2 welds examined. Tables 3 and 4 provide a summary of the NDE performed on Class 1 and Class 2 piping system welds, respectively, arranged by system and NPS within each system.

The NDE techniques employed during PSI included visual (VT), magnetic particle (MT), liquid penetrant (PT), and UT examinations. Approximately 100 VT examinations were performed on examination areas ranging from the RPV internals to small diameter bolting. Approximately 350 MT examinations and 1400 PT examinations were performed, primarily on piping welds. The preponderance of the surface examinations were conducted with the PT technique since the majority of the piping in the PSI examination boundary is fabricated from SS material. Approximately 1100 UT examinations were performed during the PSI. As may be seen in Tables 3 and 4, piping weld examinations accounted for approximately 900 of these UT examinations.

The following subsections describe PSI examination techniques applied to specialized components, materials and configurations. The final subsection describes how PSI examinations are documented in this report.

### 5.2 RPV Examinations

SwRI performed mechanized ultrasonic (Mech UT) examinations on the STPEGS-2 RPV during June and July 1987. Most of the RPV welds, including the inlet and outlet nozzles, were examined with Mech UT techniques from the interior of the RPV. Some RPV welds (e.g., closure head welds and CRD housing welds) and examination areas (e.g., studs) were examined manually. Mech UT examinations of RPV welds were conducted in accordance with 80W81 Section XI Code and Appendix A of Regulatory Guide 1.150, Rev. 1. Implementation of the Regulatory Guide 1.150 requirements is discussed in Appendix J of this report. The RPV PSI examinations are described below.

#### 5.2.1 RPV Examination Areas

The following areas of the RPV were examined:

- Circumferential Vessel Welds
- Circumferential Closure Head Welds
- Longitudinal Vessel Welds
- Meridional Bottom Head Welds
- Meridional Closure Head Welds

TABLE 3

Summary of NDE Performed on Class 1 Piping Systems

System	Piping Material Type	NPS	Approximate Number of Examinations		
			UT	PT	VT-1
CV	SS	2	0	42	0
CV	SS	4	6	6	0
CV	.	FB	0	0	4
CV	.	VB	<u>0</u>	<u>0</u>	<u>7</u>
Subtotals			6	48	11
RC	SS	2	0	46	0
RC	SS	3	0	22	0
RC	SS	4	81	81	0
RC	SS	6	56	56	0
RC	SS	8	18	18	0
RC	SS	12	60	60	0
RC	SS	16	8	8	0
RC	SS	27.5	20	24	0
RC	SS	29	19	19	0
RC	SS	31	25	36	0
RC	.	FB	0	0	3
RC	.	VB	<u>0</u>	<u>0</u>	<u>10</u>
Subtotals			287	370	13
RH	SS	8	11	11	0
RH	SS	10	31	31	0
RH	SS	12	43	43	0
RH	.	VB	<u>0</u>	<u>0</u>	<u>12</u>
Subtotals			85	85	12
SI	SS	6	24	24	0
SI	SS	8	21	21	0
SI	SS	12	17	17	0
SI	.	VB	<u>0</u>	<u>0</u>	<u>15</u>
Subtotals			62	62	15
TOTALS PER NDE METHOD:			440	565	51

Legend

SS = stainless steel

FB = flange bolting

VB = valve bolting

TABLE 4

Summary of NDE Performed on Class 2 Piping Systems

System	Piping Material Type	NPS	Approximate Number of Examinations		
			UT	PT	MT
AF	CS	6	3	0	8
AF	CS	8	12	0	41
Subtotals			15	0	49
CS	SS	6	8	19	0
CS	SS	8	13	43	0
CS	SS	10	0	2	0
CS	SS	12	26	26	0
Subtotals			47	90	0
FW	CS	16	4	0	4
FW	CS	18	61	0	57
Subtotals			65	0	61
MS	CS	6	20	0	20
MS	CS	8	4	0	4
MS	CS	12	4	0	4
MS	CS	16	9	0	9
MS	CS	30	171	0	167
Subtotals			208	0	204
RH	SS	8	8	199	0
RH	SS	12	35	35	0
RH	SS	14	5	5	0
Subtotals			48	239	0
SI	SS	2	4	14	0
SI	SS	6	29	127	0
SI	SS	8	0	87	0
SI	SS	10	0	26	0
SI	SS	12	21	44	0
SI	SS	16	27	68	0
SI	SS	20	3	7	0
SI	SS	24	6	71	0
Subtotals			90	444	0
SL	SS	6	0	3	0
Subtotals			0	3	0
TOTALS PER NDE METHOD:			473	776	314

Legend

CS = carbon steel

SS = stainless steel

Nozzle-to-Shell Welds  
Nozzle Inside Radius Sections and Integral Extensions  
Nozzle-to-Safe End Welds  
Closure Head Bolting  
Vessel Interior  
Vessel Core Support Structures  
Control Rod Drive Housing Welds

#### 5.2.2 Discussion of RPV Examinations

SwRI performed Mech UT examinations of the RPV from the interior of the vessel, including the inlet and outlet nozzles. In response to Regulatory Guide 1.150, A Mech UT technique was applied during this examination for the detection of underclad cracking and to assure examination coverage of the near-surface volume of clad and base material between the 1/4T through-wall position and the examination surface. This technique was employed on all welds in the RPV. The technique utilizes a specially designed transducer capable of detecting underclad cracks while still demonstrating sensitivity to a depth of 3 inches below the cladding. Therefore, the near-surface resolution of these transducers easily extends into the volume covered by the standard Section XI shear-wave examination. Since these transducers cover a width of approximately 1 inch, they allow much faster scanning of the vessel in the core belt region while maintaining good sensitivity for underclad cracks.

This SwRI transducer (known as the 50/70 Wide Body, see Figure 1) is a vertically focused transducer containing tandem mounted piezoelectric elements measuring approximately 1 inch in the lateral dimension. The front piezoelectric element is mounted on a common wedge to receive a 50-degree refracted longitudinal (RL) sound beam while the back element is mounted to transmit a 70-degree RL beam. These two beams converge just below the nominal cladding thickness to achieve excellent sensitivity for underclad cracks. Because the elements are relatively narrow in the vertical dimension, a widely divergent beam is generated by each element that continues to intersect to a location of 2 to 3 inches below the surface. Holes (1/16-inch diameter) located at the clad-to-base metal interface and at incremental depths down to 3 inches below the surface can be detected with these transducers with high signal-to-noise ratios.

The 50/70 transducers were also used for the examination of the lower one-third volume of the nozzle-to-safe end, safe end-to-pipe, and elbow-to-safe end welds from the inside surface (ID). The nozzle-to-safe end and safe end-to-pipe welds were examined from the inside surface due to the weld configuration and minimal accessibility from the outside diameter (OD). For instance, to examine the nozzle-to-safe end weld from the OD would require the sound beam to travel through an exceptionally long metal path and through as many as four different materials to achieve the required coverage. A special mockup of the RPV nozzle-to-safe end and safe end-to-pipe configuration was required in order to develop and qualify the combination of OD and ID techniques.

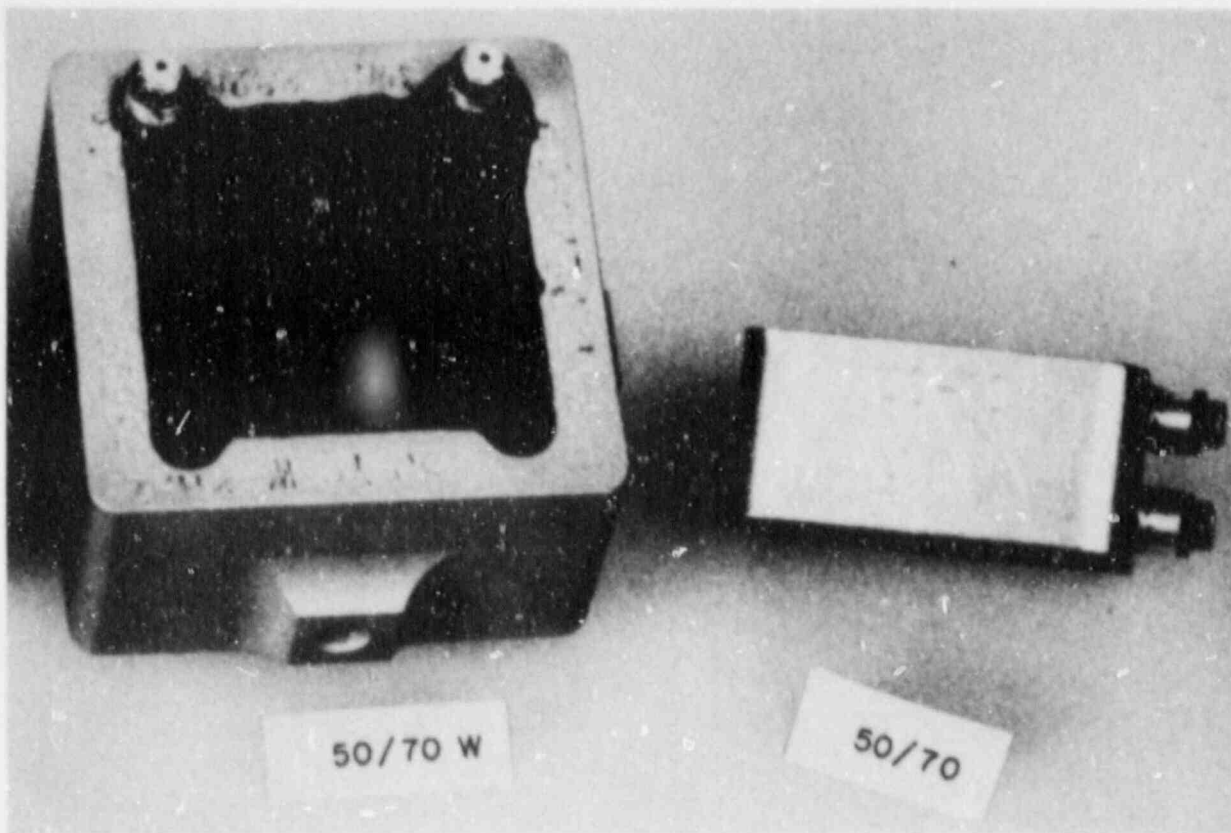


Figure 1. 50/70 Search Units



During the STPEGS-1 PSI activities, a special UT technique was developed for the examination of the RPV "Roto-Lok" closure studs at STPEGS. These studs are unique in configuration due to their "breach-lock installation" design (see Figure A-RPV-3 in Appendix F). In order to achieve maximum coverage in accordance with ASME Code Case N-307-1, several NDE procedures were utilized. First, a fluorescent MT examination was performed to examine the outer surface of the stud. Then a fluorescent PT examination was performed on the inside surface of the stud excluding the 0.625-inch diameter portion of the inside bore. Fluorescent PT was used in lieu of MT due to the difficulty of inserting the MT probe inside the stud and trying to detect indications at the same time. Examination of the surface in the 0.625-inch diameter bore hole was accomplished with a stud probe designed for high-angle (88 degrees) RL UT sound beam. Finally, the outer 1/4 inch of the nonthreaded portion, threads and "Roto-Lok" lugs, were examined with a combination of 45- and 60-degree angle beams using search unit wedges in the inner bore of the stud (excluding the 0.625-inch diameter bore) and a 60-degree angle beam using a stud probe inside the 0.625-inch diameter bore.

### 5.2.3 RPV Examination Equipment

#### 5.2.3.1 Standard Data Acquisition System

A single Standard Data Acquisition System (SDAS) unit consists of four channels of UT instrumentation, analog-to-digital signal converters, high-speed signal averagers, time-corrected gain circuitry, electronic gating, and a calibration/examination cable comparator system. A video recording system and an 8-channel strip-chart recorder were used to record all data from the UT instruments. The SwRI SDAS is a compact, modular system designed for rapid and accurate recording and/or processing of ultrasonic test data obtained during mechanized examinations. Figure 2 is a photograph of the SDAS with the component parts labeled.

#### 5.2.3.2 PaR ISI-2 Positioning Device

The SwRI PaR ISI-2 Positioning Device (see Figure 3) was utilized to examine the RPV interior surface, nozzles, vessel circumferential and longitudinal welds, and lower head welds. During the PSI, various SwRI modules were attached to the device which enabled examination of the nozzle-to-shell, nozzle bore, lower head, vertical and circumferential welds, the cladding in the core belt region, and nozzle high-strain areas (see Figure 4, 5 and 6).

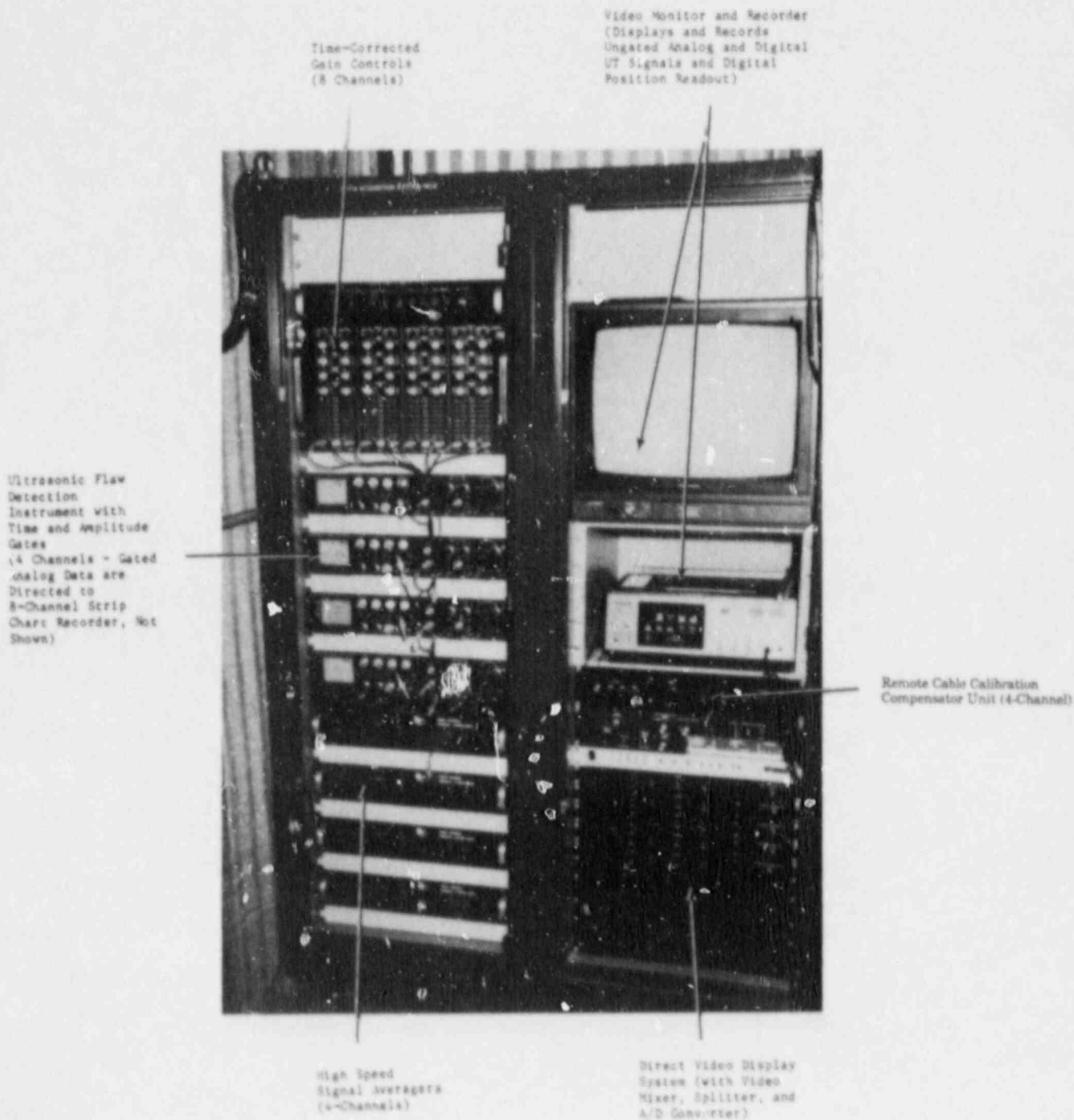


Figure 2. Standard Data Acquisition System (SDAS)

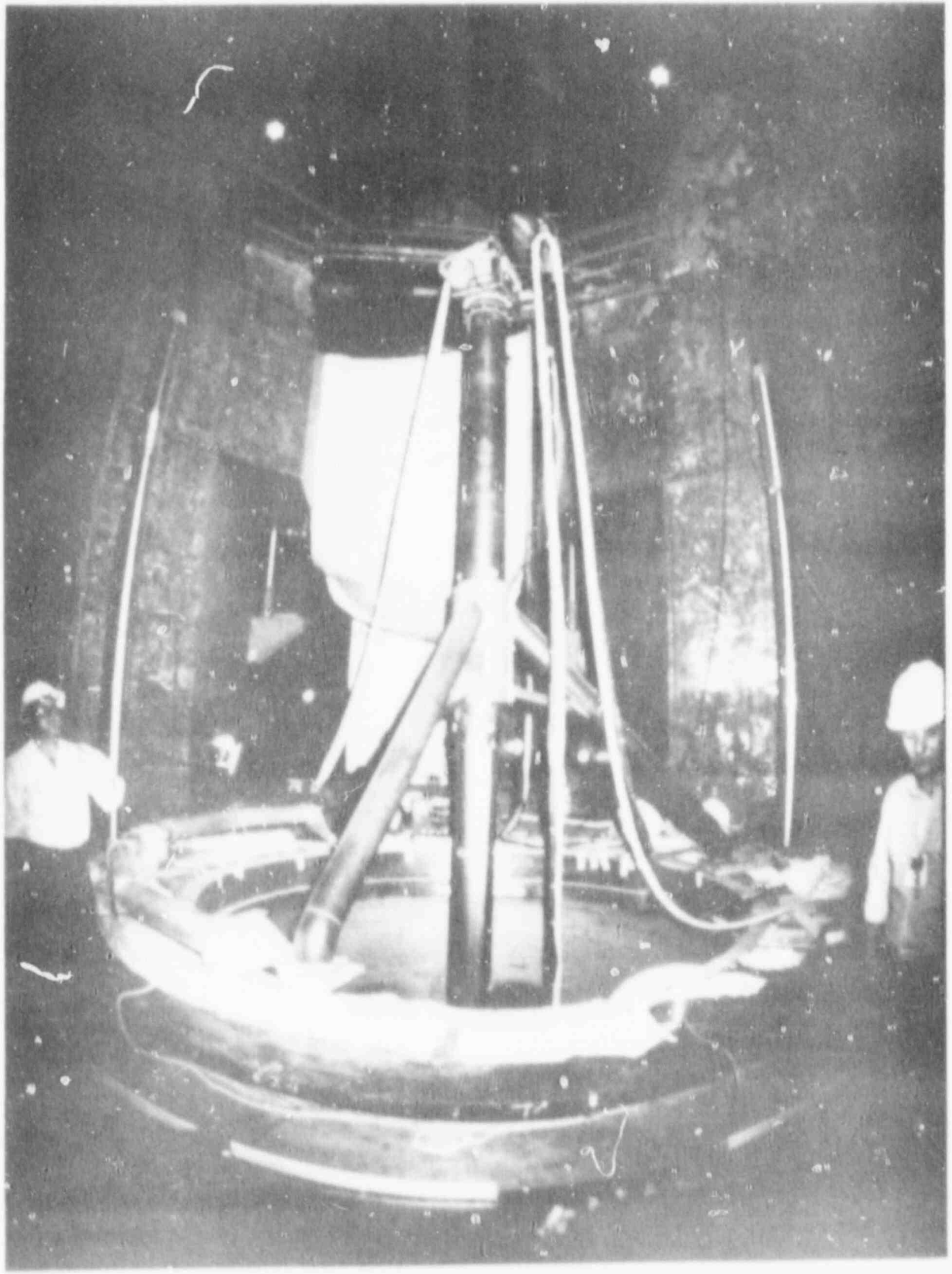


Figure 3. PaR ISI-2 positioning device at the South Texas Project Electric Generating Station

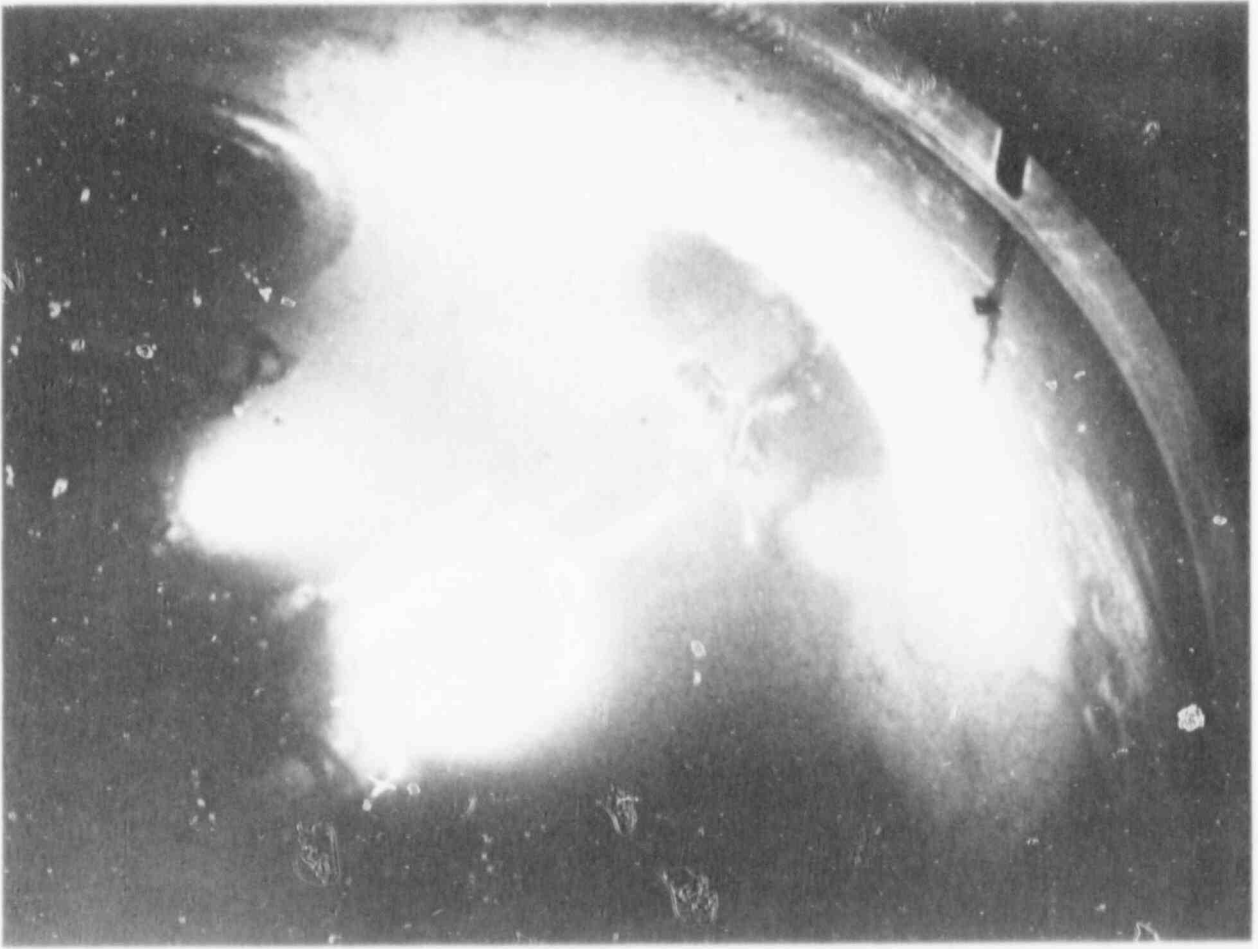


Figure 4. PaR ISI-2 device scanning in nozzle bore

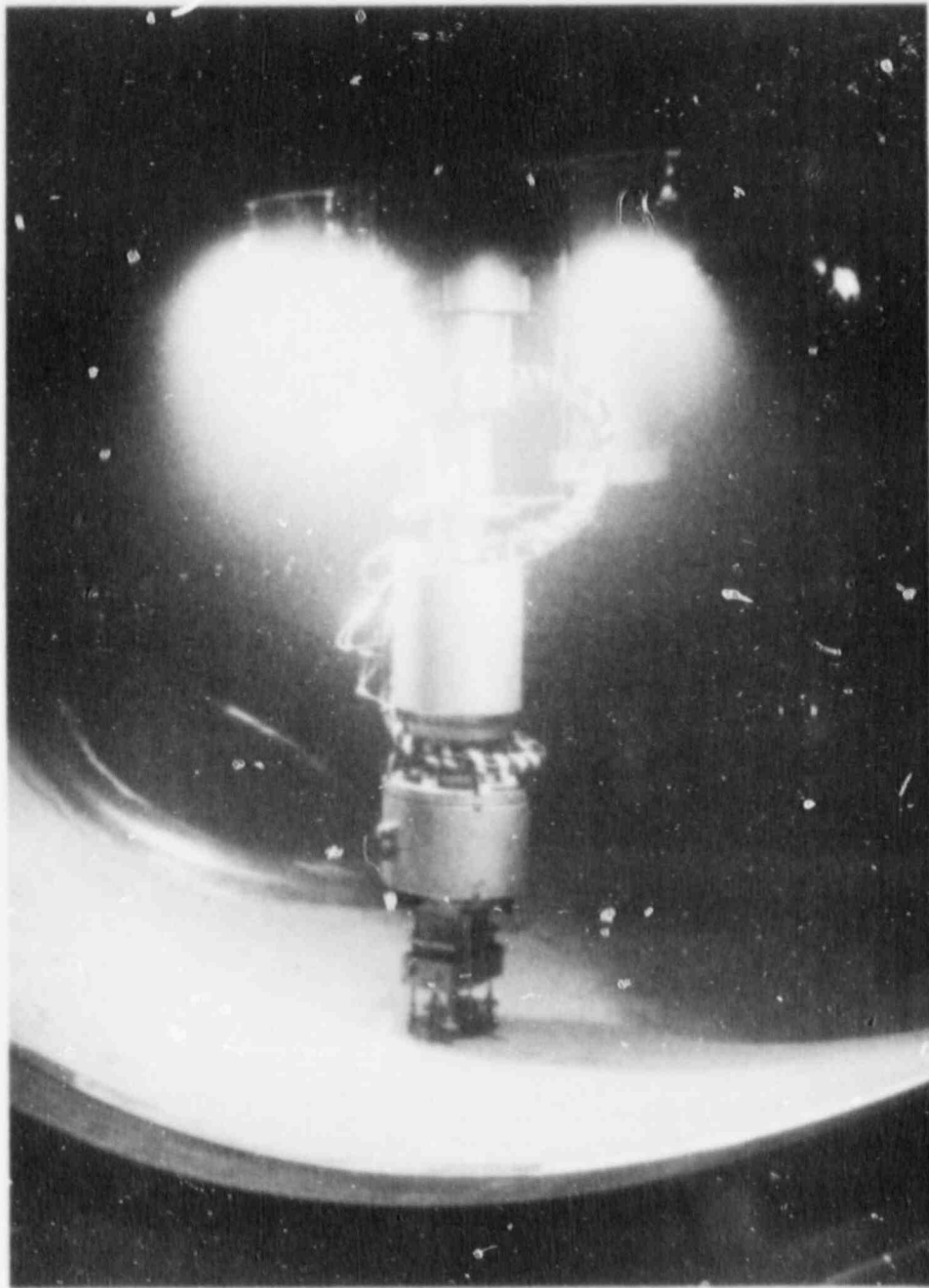


Figure 5. PaR ISI-2 device scanning nozzle-to-shell weld under computer control. A computer is required to dynamically position the search unit in three axes simultaneously.

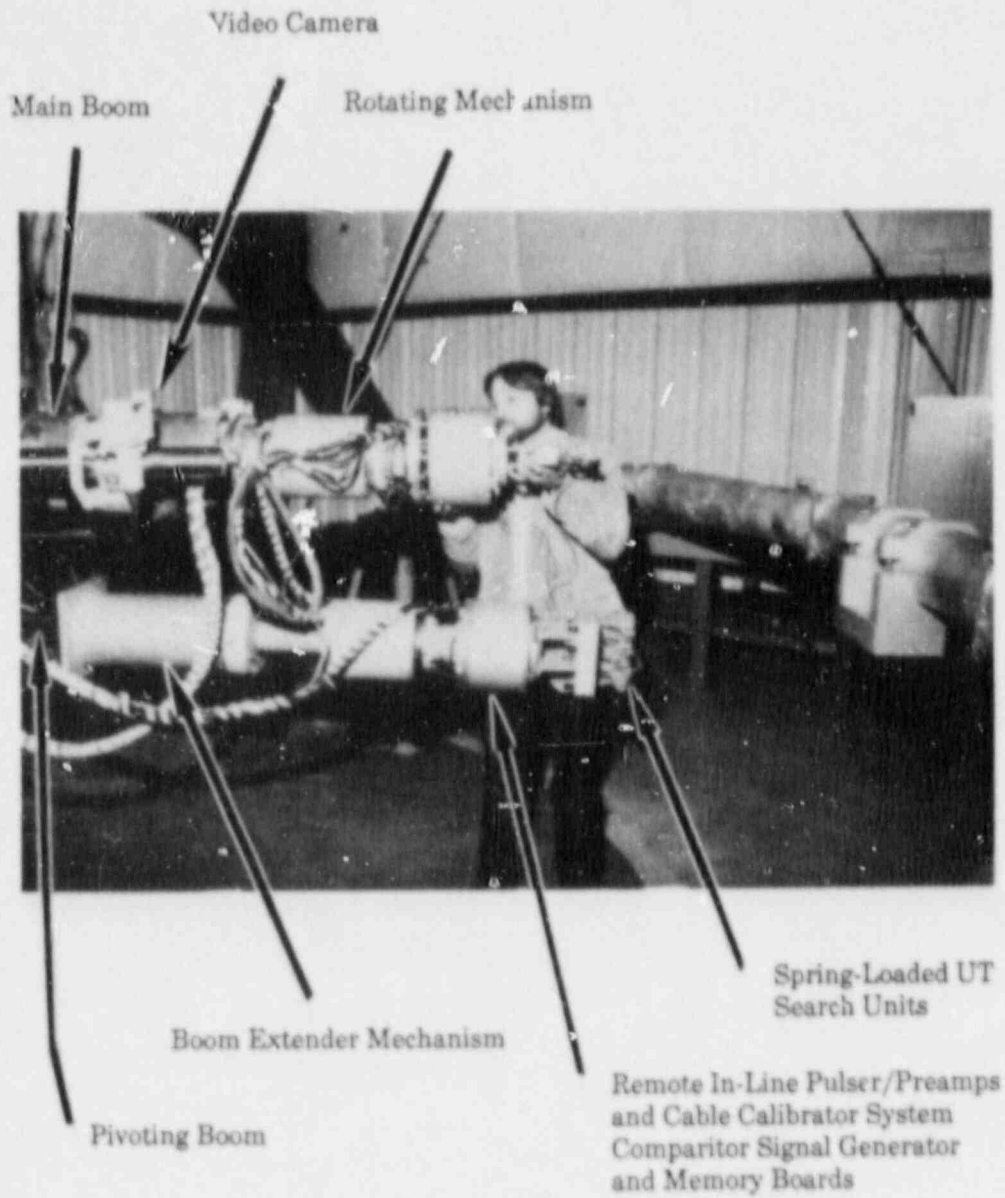


Figure 6. PaR ISI-2 device attachments

#### 5.2.3.3 Visual Examination Equipment

VT examinations of the RPV interior surface were performed remotely with a high-resolution underwater camera and monitor. The VT examinations were performed with the camera attached to the PaR ISI-2 Positioning Device. The camera was manipulated by the examiner to enable him to see, on the monitor, the areas of interest. Portable video equipment was used to videotape the VT examinations of the RPV core support structure.

#### 5.2.3.4 SwRI Stud and Flywheel Probes

UT examinations of the RPV closure studs, RCP bolts, and RCP flywheel were performed using the SwRI Stud and Flywheel Probes. The probe is inserted into the heater hole of the stud or gauge hole of the flywheel and is moved up and down by the operator with a slight rotation for each pass. This process is continued until 100 percent of the accessible volume of the stud or flywheel is examined. Figures 7 and 8 are conceptual drawings showing operation of the manual stud probe device with a 60-degree angle beam examination and 88-degree surface wave examination, respectively. The operation of the RCP flywheel probe is similar except that a 0-degree beam is used for the examinations from the gauge holes.

### 5.3 Examination of Centrifugally and Statically Cast Stainless Steel Piping of the Reactor Coolant System

Cast stainless steel material presents special difficulties for UT examination due to its large grain structure retained in its final product form. This property, however, also results in a high fracture toughness which is why cast stainless materials have often been selected for use in main reactor coolant piping systems of Westinghouse pressurized water reactors. In the early stages of the planning for the PSI at STPEGS-1, HL&P requested that SwRI evaluate the feasibility of UT examination of the centrifugally cast stainless steel (CCSS) materials used for the STPEGS main reactor coolant loop (MRCL) piping. In response, SwRI initiated a program to accomplish the following objectives:

- (1) Quantify and match acoustic properties of the installed piping with UT calibration blocks,
- (2) Optimize the combination of UT techniques, procedures, and available equipment that would be used for the examinations, and
- (3) Demonstrate the UT technique to confirm its capability to detect flaws in the examination volume of MRCL piping welds.

As the program proceeded, HL&P requested that SwRI also evaluate the feasibility of examining the associated branch connection welds and the static cast stainless steel (SCSS) pipe fitting material of the MRCL. SwRI conducted this evaluation both at their facilities and at STPEGS and collected a large database of information relative to the MRCL piping and pipe fitting material at STPEGS. Implementation of this program involved the design and fabrication of special mockups and

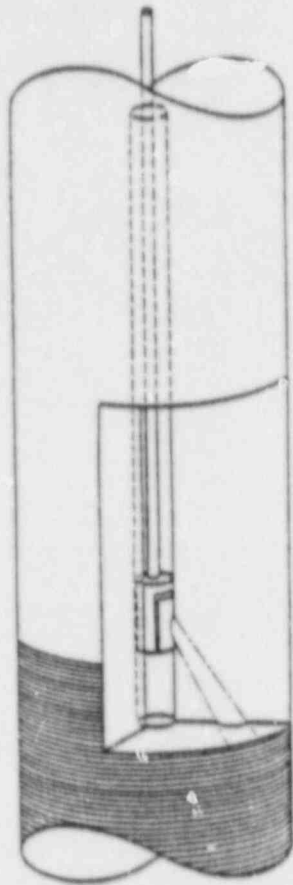
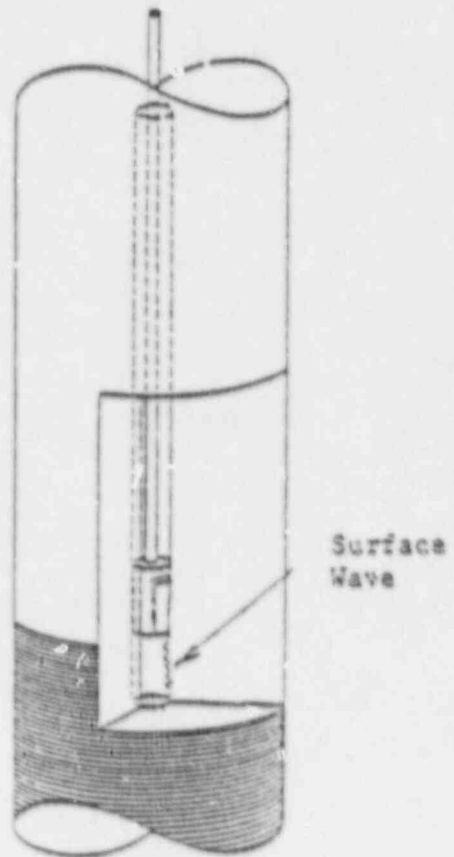


Figure 8. Conceptual drawing showing operation of the manual 88-degree surface wave stud probe device and stud coverage to ASME Code Case N-307-1

Figure 7. Conceptual drawing showing operation of the manual 60-degree stud probe device and stud coverage to ASME Code Case N-307-1





calibration blocks containing both machined reflectors (e.g., holes and notches) and cracks of various sizes. Special calibration blocks were designed and fabricated and special UT techniques developed for examination of MRCL branch connection welds with UT scanning on the tapered surface of the branch connecting forging. Additionally, the ID contour of most MRCL welds were measured and documented to support the evaluation of ID surface indications detected by UT examinations from the OD. The culmination of this program occurred when HL&P and SwRI performed a demonstration of these UT techniques to the satisfaction of the NRC in August 1986. The various calibration blocks and techniques that were designed and developed during this effort were applied to both units.

#### 5.4 Examination of Reactor Coolant Pump Flywheels

At the request of HL&P, SwRI developed a UT technique for examining the RCP flywheel from the access (gauge) holes in the flywheel with a stud probe search unit. The flywheel is composed of two round disks which are bolted together making only one of the disks accessible from the top without removal of the entire flywheel. Examination from the gauge holes permits an examination of both disks from the access provided on top of the pump without removal of the flywheel (see Figures A-RCP-2 and A-RCP-3 of Appendix F). SwRI designed and fabricated a calibration block for the flywheel examination to simulate the flywheel bore, keyway, and bolt hole geometry (see page D-35 of Appendix D). This provided the minimum and maximum sound path distances as well as a good representation of the signals encountered during the actual examination. An in-place preservice volumetric examination was performed on the bore, keyways, and bolt holes from the gauge holes with this technique using a 0-degree stud probe search unit.

The UT examinations described above represent the baseline for the in-place volumetric examination of the bore and keyway required by Regulatory Guide 1.14 each 3 years. The baseline NDE for the 100% volumetric and surface examinations required by Regulatory Guide 1.14 each 10 years was accomplished during fabrication of the flywheels as documented in FSAR Section 5.4.1.5.2.

#### 5.5 Examination of Piping Welds

##### 5.5.1 Ultrasonic Examination of Piping Welds

UT examinations of ferritic piping welds were performed in accordance with Appendix III of 80W81 Section XI Code as amended by IWA-2232 of Section XI. UT examinations of austenitic piping welds were performed in accordance with Article 5 of 80W81 Section V as amended by IWA-2232 of Section XI. During the UT examination of ferritic and austenitic piping welds, all indications not readily attributable to geometry were recorded (regardless of amplitude) and investigated. All indications were evaluated and dispositioned as described in Section 6.0.

##### 5.5.2 Refracted Longitudinal Wave Technique

UT examinations of austenitic piping with nominal wall thickness of less than 0.7 inch were performed with SwRI Nondestructive Testing (NDT) Procedure 600 1/19. This thickness criteria (i.e., 0.7 inch) was arrived at from the results of a UT survey conducted on SS piping material to determine what types and thickness of SS material would cause skewing of shear wave angle beams. This survey was performed by SwRI technicians

on installed STPEGS-1 piping at the request of HL&P. The survey results showed that shear wave angle beams were not subject to beam skewing in SS pipe material less than 0.7-inch thick. SwRI measurements of the refracted shear angles in the piping material greater than 0.7-inch thick differed significantly from measurements taken on the applicable calibration blocks. A difference in measured refracted angle also indicates a difference in the sound beam velocity. Since these differences may not be constant, coverage of the examination volume may not be assured and the location of an indication can be more difficult to determine.

HL&P and SwRI mutually agreed that an RL wave UT examination be utilized to examine SS pipe materials greater than 0.7-inch thick. The sound beam properties of a RL wave are not significantly affected by the acoustic properties of extruded austenitic piping. This allows the RL sound beam to successfully penetrate the material being examined with little distortion in the angle of the sound beam. SwRI had utilized this technique at other nuclear power plants and achieved excellent results. It was concluded that a 45-degree RL UT technique would be the most reliable method for examining austenitic pressure piping welds with a nominal wall thickness of 0.7 inch or greater. SwRI NDT Procedure 800-114 was developed for using a 45-degree RL angle beam to examine austenitic piping welds with nominal wall thickness of 0.7 inch and greater. This same approach which had been developed and utilized for the STPEGS-1 PSI was followed for the STPEGS-2 PSI as well.

#### 5.5.3 Examination of Longitudinal Welds in Pipe Fittings

During walkdown activities, SwRI experienced some difficulty detecting longitudinal welds in austenitic components (elbows, tees, etc.) less than NPS16. This same problem was encountered during the course of the STPEGS-1 PSI. An effort was made at that time to detect the longitudinal welds with several methods to no avail. The need to locate the fitting longitudinal welds is a result of the 74S75 Section XI Code requirement to examine 100 percent of the longitudinal welds in Class 2 pipe fittings (applicable to Class 2 piping welds in RH, SI, and CS systems). Since it was deemed impractical to examine the entire fitting surface, HL&P adopted Section XI Interpretation No. XI-1-83-80, which limits the extent of examination of longitudinal fitting welds to 2.5T of the longitudinal weld adjacent to the circumferential welds. Since at least 2.5T of the fitting is examined when the circumferential welds are examined, the required coverage of the longitudinal fitting weld is assured.

#### 5.6 Documentation of Examinations

All STPEGS-2 PSI examinations are documented in Appendices F, G, H, and I. Appendix F contains Class 1 weld identification figures that specify the Class 1 components and systems (and individual welds and examination areas within these components and systems) that were examined during PSI. Appendix G contains corresponding figures for Class 2 components and systems. Each weld and examination area was assigned a unique identification number as shown in Appendices F and G. These identification numbers are listed in the examination summary tables shown in Appendices H and I.

Appendix H contains the examination summary tables for Class 1 components. These tables document the Section XI examination category and item number for each weld, identify each weld by unique number and description, list the applicable NDE methods and SwRI NDT procedure numbers, summarize the results of each examination, document limitations to examinations, summarize results and disposition of results of examinations, and list applicable UT calibration blocks. Appendix I contains the corresponding examinations summary tables for Class 2 components.

## 6.0 EXAMINATION RESULTS AND CORRECTIVE MEASURES

The results of examinations were initially evaluated by SwRI NDE personnel in accordance with applicable procedures. SwRI classified all indications resulting from VT and surface (PT and MT) examinations as either "no recordable" or "other" and all indications resulting from UT examination as "no recordable," "geometric," or "other." A detailed description of SwRI's classification criteria is included in their PSI Final Report (2.1.22). All indications classified as "other" were evaluated by SwRI for acceptance in accordance with Section XI flaw acceptance criteria. All indications classified as "other" were reported to HL&P for final evaluation and disposition on Customer Notification Forms (CNF). The indications reported on CNFs were evaluated and dispositioned by HL&P. A summary of these indications and HL&P's corrective actions and dispositions is presented below by examination technique.

### 6.1 VT Examination Results and Corrective Measures

Visual examination detected relevant conditions on one (1) RPV inlet nozzle inside radius region, one (1) RCP flange surface, one (1) Steam Generator outlet nozzle, three (3) RPV closure washers, and four (4) Class 1 valve bolts. The indications on the RPV inlet nozzle inside radius region were buffed out and the area reexamined visually with no recordable indications. The indications on the RCP flange surface were accepted as is. The Steam Generator outlet nozzle indications were buffed out. The RPV closure washers were reported on a project Nonconformance Report (NCR) with the corrosive condition being dispositioned as acceptable. The valve bolts were reexamined with no recordable indications after the affected valve bolting had been properly torqued.

### 6.2 MT Examination Results and Corrective Measures

Reportable linear indications were detected by MT examination on three (3) pipe welds, five (5) pipe lugs, one (1) Pressurizer support bracket, and in the unthreaded area of one (1) RPV closure nut and one (1) RPV closure stud. Five (5) of the piping indications were detected in the AF system, one (1) in the FW system, and the other two (2) in the MS system. All indications were removed with surface conditioning and reexamined with MT with no recordable indications, with the exception of the indication recorded on the RPV closure nut. This indication was reported on an NCR and dispositioned as acceptable.

### 6.3 PT Examination Results and Corrective Measures

Reportable linear indications were detected by PT examination on thirteen (13) piping welds. All indications detected by PT were removed with surface conditioning and reexamined with PT with no recordable indications, with the exception of one indication which was accepted as Code allowable.

### 6.4 UT Examination Results and Corrective Measures

Reportable indications were detected by UT examination in sixty-nine (69) examination areas, including ten (10) RPV welds, one (1) RPV closure nut, five (5) Pressurizer welds, three (3) Steam Generator welds, three (3) Regenerative Heat Exchanger welds, two (2) Residual Heat Removal Heat Exchanger welds, thirty-nine (39) piping welds, and six (6) piping lugs. Most of the UT indications detected in piping welds were found in the MS system (17), with nine (9) in the SI system,

eight (8) in the RC system, three (3) in the CS system, and one (1) each in the RH and CV systems. All six (6) of the piping lug limitations were in the MS system. These UT indications resulted from the presence of small base material laminations and small weld flaws, including slag and inclusions. A majority of these UT indications were detected by 0-degree transducers while scanning the weld and adjacent base material. All flaws detected by UT examination were sized in accordance with Section XI requirements, compared with applicable flaw acceptance criteria, and determined to be acceptable with the exception of indications recorded during the examination of welds 6-SI-2106-1 and -2. The two welds in question contained indications which were evaluated as lack of fusion. The two welds were located at opposite ends of a short spool piece directly off of HHSI pump 2A. HL&P elected to excavate the portions of the weld containing the lack-of-fusion indications in lieu of replacing the spool piece. Reexamination after repair revealed other indications which were accepted as Code allowable by HL&P.

#### 6.5 Examination Limitations

Limitations to Code-required examination coverage for all welds and examination areas for all examination methods are documented in Appendices K and L. These limitations were previously submitted to NRC as relief request No. RR-ENG-07.

#### 6.6 Use of Fabrication NDE Data

Section III fabrication NDE data were utilized in lieu of Section XI PSI examinations for those components and welds listed in Appendix M as permitted by IWB-2200 and IWC-2200 of Section XI. Appendix M documents the required Section XI examination method, the Section III fabrication examination method, and the basis for using fabrication NDE data for each applicable component and weld.

7.0 CERTIFICATION OF INSPECTIONS

Section XI NIS-1 forms, "Owner's Report for Inservice Inspections," have been prepared to certify the STPEGS-2 PSI examinations described in this Summary Report. The STPEGS-2 PSI examinations have been certified by our ANIL, Lumbermens Mutual Casualty Co., on the three (3) NIS-1 forms included in Appendix N.

## 8.0 ADDITIONAL PSI EXAMINATIONS

Additional PSI examinations may be required on Class 1 or Class 2 pressure retaining components during the time period between filing of this Summary Report and start of commercial operation of STPEGS-2. The need for such examination may result from testing programs, maintenance activities, or repair and/or replacements performed during this time frame. If any additional PSI examinations are performed subsequent to the filing of this Summary Report and prior to commercial operation of STPEGS-2, HL&P will file an amendment within sixty (60) days after start of commercial operation to document and certify the completion of these additional PSI examinations.

APPENDIX A

LISTING OF PERSONNEL QUALIFICATIONS  
FOR SWRI NDE PERSONNEL



APPENDIX A

LISTING OF PERSONNEL QUALIFICATIONS  
FOR SwRI NDE PERSONNEL

<u>Name</u>	<u>UT</u>	<u>MT</u>	<u>PT</u>	<u>VT</u>	<u>Mech</u>
Alejandro, J.	II	--	II	II	X
Barrera, C. M.	II**	II	II	II	X
Blum, C. J.	II**	II	II	II	
Bohnenkamper, T. A.	I*	I*	I*	I*	
Brownlow, J. D.	I*	I*	I*	I*	
Castilla, A. M.	I*	I*	I*	I*	
Clayton, W. T.	III	III	III	III	X
Deluna, C.	II	I	I	I	X
Drust, M. D.	I	I	I	I*	
Duran, L.	II	I	I	II	
Escobedo, E. H.	II**	II	II	II	
Forman, R. O.	II**	II	II	II	
Fougerousse, R. A.	I*	I*	I*	I*	
Gaines, P. C.	II	I*	I	I	X
Gant, F. L.	II	II	II	II	
Garcia, E. G.	II**	II	II	II	X
Garcia, F.	I*	I*	I*	I*	
Goff, M. E.	I*	I*	I*	I*	
Hastings, P. C.	II	I	II	I	
Hernandez, J.	I*	I*	I*	I*	
Hsu, E. C.	II	II	II	I*	
Jackson, T.	II	II	II	II	
Jensen, W.	II	I	II	I	
Juarez, J. B.	I*	I*	I*	I*	
Kleinjan, D. R.	I	I	I	I	X
Kleinjan, M. W.	II	II	II	I	
Kling, D. A.	II	--	II	II	
Kyrish, V. B.	II	I	II	I	
Lacroix, T. P.	I*	I*	I*	I*	
Littlefield, C. R.	II	I	II	I*	
Mackert, R. M.	I	I	I	I*	
Magallan, J.	I*	I*	I*	I*	
Marin, S. S.	I*/II	I*	II	II	
Mathena, L. R.	I/II	I	I	II	
McElroy, C. P.	II**	II	II	II	
Miller, R. L.	I*	I*	I*	I*	
Minor, C. A.	II**	II	II	II	
Moreno, A. G.	I*	I*	I*	I*	
Muniz, R. L.	I/II	I	II	I	

\*Level I Trainee

\*\*IGSCC Qualified by EPRI

APPENDIX A

LISTING OF PERSONNEL QUALIFICATIONS  
FOR SwRI NDE PERSONNEL (CONT'D)

<u>Name</u>	<u>UT</u>	<u>MT</u>	<u>PT</u>	<u>VT</u>	<u>Mech</u>
Ng, G. P.	II	II	II	I*	
Niemeyer, R. L.	II	II	II	II	X
Riddles, R. A.	II**	II	II	II	
Roberds, B. A.	II**	II	II	I	
Ruescher, E. H.	III**	III	III	III	
Schaefer, R. E.	--	--	--	--	X
Smith, J. T.	II	--	--	I	X
Soto, S. A.	I*	I*	I*	I*	
Spiess, L. D.	II**	II	II	II	
Stuhler, D. A.	II**	I	II	II	
Suarez, B. E.	I*	I*	I*	I*	
Suhler, C. D.	II**	II	II	II	
Trude, T. R.	II	II	II	II	
Turner, P. C.	II	II	II	II	X
Van Booven, D. A.	I	I*	I	I*	
Wagar, D. L.	I*	I*	I*	I*	
Walker, P. A.	I	I	I	I*	
Warren, V. C.	I	I	II	I	
Warzyniak, M. G.	I*	I*	I*	I*	
Younger, J. C.	I*	--	--	--	

\*Level I Trainee

\*\*IGSCC Qualified by EPRI

APPENDIX B

LISTING OF SOUTHWEST RESEARCH INSTITUTE  
NUCLEAR PROJECTS OPERATING PROCEDURES

APPENDIX B

LISTING OF SOUTHWEST RESEARCH INSTITUTE  
NUCLEAR PROJECTS OPERATING PROCEDURES

<u>Procedure No./Rev.</u>	<u>Title</u>	<u>HL&amp;I' Document Log No.</u>
IX-FE-101-4	Deviations to Nuclear Projects Operating Procedures	A41073-00034-F-SW
IX-FE-103-2	Weld Joint Identification Marking on Nuclear Power Plant Piping	A41073-00035-A-SW
IX-FE-110-3	"Black Light" Intensity Measurements	A41073-00036-C-SW
IX-FE-116-2	Recording Data from Direct Visual, Liquid Penetrant, and Magnetic Particle Examinations	A41073-00037-C-SW
IX-FE-117-4	Recording Indications During Ultrasonic Examination of Pressure-Retaining Components	A41073-00086-A-SW
IX-FE-118-2	Recording Indications During Ultrasonic Examinations of Pressure Vessel Welds	A41073-00087-A-SW
IX-FE-125-0	Recording Indications in Accordance with NRC Regulatory Guide 1.150	A41073-00146-A-SW
IX-FE-128-1	Maintenance Guidelines for the South Texas Project Electric Generating Station Preservice Examination Plan	A41073-00152-A-SW
X-FE-101-3	Onsite NDE Records Control	A41073-00040-B-SW
X-FE-109-0	Indication Evaluation Guidelines	A41073-00085-A-SW
XIII-AG-101-2	Control of Nuclear Inspection Equipment and Materials	A41073-00041-A-SW
XVII-AC-101-1 Change 2	Data Storage and Retrieval	A41073-00042-B-SW

APPENDIX C

LISTING OF SOUTHWEST RESEARCH INSTITUTE  
NONDESTRUCTIVE TESTING PROCEDURES

APPENDIX C

LISTING OF SOUTHWEST RESEARCH INSTITUTE  
NONDESTRUCTIVE TESTING PROCEDURES

<u>Procedure No./Rev.</u>	<u>Title</u>	<u>HL&amp;P Document Log No.</u>
SwRI-NDT-200-1/62 Dev. 1 SwRI-NDT-200-1/69	Solvent-Removable Liquid Penetrant Color Contrast Examination for the South Texas Project	A41073-00003-B-SW A41073-00003-C-SW A41073-00003-D-SW
SwRI-NDT-200-3/6	Visible Water Washable Liquid Penetrant Examinations	A41073-00144-A-SW
SwRI-NDT-200-5/2	Fluorescent, Water-Washable Liquid Penetrant Examination of Studs	A41073-00103-D-SW
SwRI-NDT-300-1/33	Dry Powder Magnetic Particle Examination	A41073-00055-E-SW
SwRI-NDT-300-2/41	Fluorescent Magnetic Particle Examination	A41073-00056-C-SW
SwRI-NDT-600-5/42	Manual Ultrasonic Examination of Nuclear Reactor Pressure Vessel Flange Ligaments	A41073-00057-C-SW
SwRI-NDT-600-11/43	Manual Ultrasonic Examination of Vessel-to- Nozzle Inner Radius Sections	A41073-00126-C-SW
SwRI-NDT-600-15/67	Manual Ultrasonic Examination of Pressure Vessel Welds	A41073-00059-D-SW
SwRI-NDT-600-18/41 Dev. 1	Manual Ultrasonic Examination of Pressure- Retaining Studs and Bolts Greater than 2 Inches in Diameter Containing Access Holes	A41073-00060-D-SW A41073-00060-E-SW
SwRI-NDT-600-19/34	Manual Ultrasonic Examination of Pressure- Retaining Round Nuts Greater Than Two Inches in Diameter	A41073-00061-C-SW
SwRI-NDT-600-26/9	Manual Ultrasonic Examination of Thin Wall Vessel Welds (0.1 to 0.4 Inch)	A41073-00127-E-SW
SwRI-NDT-600-31/19	Manual Ultrasonic Examination Austenitic Pressure Piping Welds	A41073-00062-H-SW
SwRI-NDT-600-36/7	Manual Ultrasonic Examination of Small- Diameter Piping Welds	A41073-00089-C-SW
SwRI-NDT-600-41/14 Dev. 1	Manual Ultrasonic Examination of Ferritic Pressure Piping Welds	A41073-00063-G-SW A41073-00063-H-SW

APPENDIX C

LISTING OF SOUTHWEST RESEARCH INSTITUTE  
NONDESTRUCTIVE TESTING PROCEDURES (CONT'D)

<u>Procedure No./Rev.</u>	<u>Title</u>	<u>HL&amp;P Document Log No.</u>
SwRI-NDT-600-45/2	Manual Ultrasonic Examination of Pressure-Retaining Welds in Thin Wall Vessels	A41073-00064-H-SW
SwRI-NDT-800-22/2	Manual Ultrasonic Examination of the Pressure-Retaining RPV Studs at the South Texas Project	A41073-00104-D-SW
SwRI-NDT-800-25/37	Manual Ultrasonic Examination of Austenitic Thin Wall Piping Welds	A41073-00066-C-SW
SwRI-NDT-800-105/2	Manual Ultrasonic Examination of the South Texas Project Reactor Pressure Vessel Welds	A41073-00067-D-SW
SwRI-NDT-800-108/2	Manual Ultrasonic Examination of Reactor Coolant Pump Flywheels from the Access Holes	A41073-00143-A-SW
SwRI-NDT-800-109/1	Inner Surface Examination of the Access Holes in Pressure-Retaining Studs Greater Than 2 Inches in Diameter	A41073-00091-E-SW
SwRI-NDT-800-111/2	Mechanized Ultrasonic Examination of Piping Welds for the South Texas Project	A41073-00100-C-SW
SwRI-NDT-800-114/2	Manual Ultrasonic Examination of Austenitic Pressure Piping Welds for the South Texas Project	A41073-00102-E-SW
SwRI-NDT-800-116/2	Manual Ultrasonic Examination of Pressure Piping Welds of High Attenuation Materials for the South Texas Project	A41073-00129-E-SW
SwRI-NDT-800-118/2	Manual Ultrasonic Examination of Austenitic Branch Connection Welds from the Branch Connection Taper	A41073-00136-E-SW
SwRI-NDT-800-119/1	Manual Ultrasonic Examination of Pressure Piping Support Attachments at South Texas Project	A41073-00137-C-SW
SwRI-NDT-800-120/1	Mechanized Ultrasonic Examination of the Reactor Pressure Vessel at the South Texas Project	A41073-00153-A-SW

APPENDIX C

LISTING OF SOUTHWEST RESEARCH INSTITUTE  
NONDESTRUCTIVE TESTING PROCEDURES (CONT'D)

<u>Procedure No./Rev.</u>	<u>Title</u>	<u>HL&amp;P Document Log No.</u>
SwRI-NDT-800-121/0	Manual Ultrasonic Examination of Pressurizer Support Skirt Attachment Welds at STP	A41073-00145-A-SW
SwRI-NDT-900-7/11	Visual Examination of Nuclear Power Plant Components	A41073-00001-C-SW



APPENDIX D

ULTRASONIC CALIBRATION BLOCK DRAWINGS

## APPENDIX D

## ULTRASONIC CALIBRATION BLOCK DRAWINGS

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<b>VESSEL CALIBRATION BLOCKS</b>					
5-CSCL-89-W-STP	RPV	694 O	A41073-00147-A-SW	586-75	D-1
7-CSCL-90-W-STP	RPV	692 G	A41073-00151-A-SW	586-76	D-2
9-CSCL-91-W-STP	RPV	695 B	A41073-00149-A-SW	586-77	D-3
11-CSCL-92-W-STP	RPV	693 O	A41073-00150-A-SW	586-78	D-4
CSCL-FLG/S-93-W-STP	RPV	691 O	A41073-00148-A-SW	586-83	D-5
10-625-CS-45A-STP	RPV	647 O	A41073-00079-A-SW	587-490	D-6
10-625-CS-45B-STP	RPV	648 A	A41073-00092-A-SW	587-491	D-7
14-625-10-CS-46-STP	RPV	637 A	A41073-00050-A-SW	587-492	D-8
CS-FLG/THH-47-STP	RPV	541 B	A41073-00054-B-SW	587-493	D-9
CSCL-NOZ/SE-48-STP	RPV	642 C	A41073-00069-D-SW	587-494	D-10
SS-SE/NOZ-49-STP	RPV	643 B	A41073-00070-C-SW	587-495	D-11
CSCL-NOZ/SE-50-STP	RPV	644 C	A41073-00071-D-SW	587-496	D-12
SS-SE/NOZ-51-STP	RPV	645 C	A41073-00072-C-SW	587-497	D-13
CSCL-IR-52-STP	RPV	646 B	A41073-00073-B-SW	587-498	D-14
CSCL-N/S-53-STP	RPV	636 A	A41073-00078-A-SW	587-499	D-15
NGZ-SP-PIPE-MOCKUP-44-STP	RPV	656 A	A41073-00099-A-SW	587-548	D-16
3-CSCL-56-STP	PZ	640 B	A41073-00053-B-SW	587-502	D-17
8-X-1.25-SA508-CL2-CSCL-69-STP	PZ	669 A	A41073-00116-A-SW	586-334	D-18
8-X-1.4-SA182-GRF316L-SS-70-STP	PZ	670 O	A41073-00117-A-SW	586-335	D-19
17-60-X-2.625-SA508-CL2-CSCL-71-STP	PZ	671 O	A41073-00118-A-SW	586-336	D-20
17-60-X-2.20-SA182-GRF316L-SS-72-STP	PZ	672 O	A41073-00119-A-SW	586-337	D-21
IR-SA508-CL2-CSCL-42-STP	PZ	674 C	A41073-00121-B-SW	586-64	D-22
5-CS-54-STP	SG	638 A	A41073-00051-A-SW	587-500	D-23
3-CS-55-S1P	SG	639 A	A41073-00052-A-SW	587-501	D-24
IR-SA508-CL2-CSCL-41-STP	SG	673 O	A41073-00120-A-SW	586-63	D-25
14-X-1.5-SA240-GR304-SS-61-STP	RGHX	660 A	A41073-00107-B-SW	586-326	D-26
10-X-1.4-SA182-F304-SS-62-STP	RGHY	661 A	A41073-00108-B-SW	586-327	D-27
10-240-1.00-SA358-GR304-SS-63-STP	RGHX	662 A	A41073-00109-B-SW	586-328	D-28
10-X-1.625-SA182-F304-SS-64-STP	RGHX	663 A	A41073-00110-B-SW	586-329	D-29
PL-X-1.1-SA240-GR304-SS-65-STP	RIE/RIHX	664 A	A41073-00111-B-SW	586-330	D-30
10-40-0.365-SA312-GR304-SS-66-STP	LDRH/RIIR	665 O	A41073-00112-A-SW	586-331	D-31
8-X-9-SA240-GR304-SS-67-STP	ELD IX	666 A	A41073-00113-B-SW	586-332	D-32
7-X-250-SA240-GR304-SS-68-STP	RC FILTER	667 A	A41073-00114-B-SW	586-333	D-33
4.5-750-SA-450-GRB24-SS-40-STP	RCP	668 A	A41073-00115-B-SW	586-62	D-34
RC-FLYWHEEL-SA533-GRB-CS-76-STP	RCP	659 D	A41073-00122-E-SW	586-341	D-35

## APPENDIX D

## ULTRASONIC CALIBRATION BLOCK DRAWINGS

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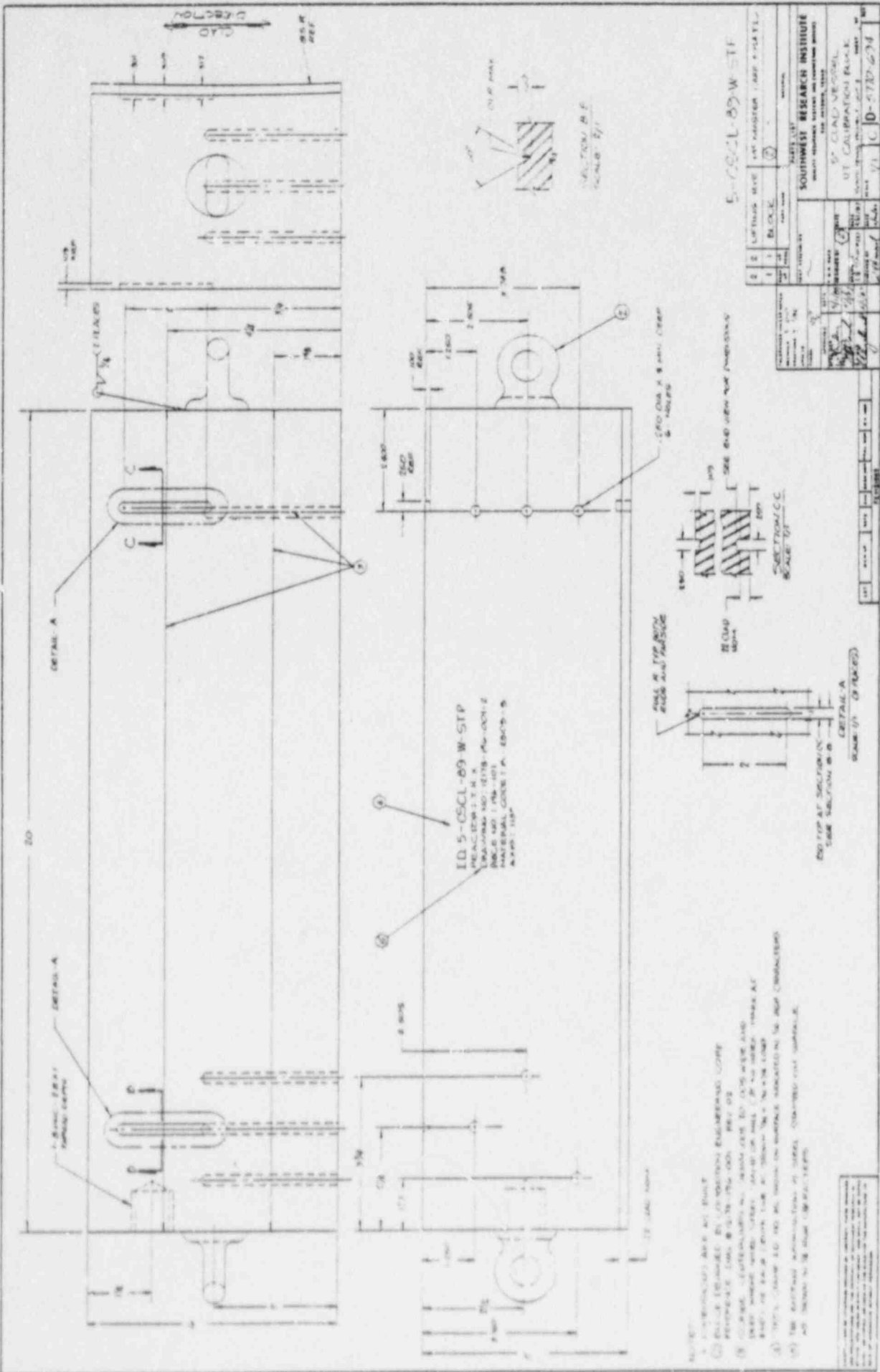
Calibration Block No.	SwRI EWG.No./Rev. D-5770-	HL&P Document Log No.	Class Bin No.	Page
<b>PIPING CALIBRATION BLOCKS - CARBON STEEL</b>				
6-80-432-SA106-GRB-CS-1-STP	600 O	A41073-00006-A-SW	587-450	D-36
6-120-562-SA106-GRB-CS-73-STP	675 O	A41073-00123-A-SW	586-338	D-37
7-N-FLANGE-1.625-SA350-GRLF2-CS-75-STP	677 O	A41073-00125-A-SW	586-340	D-38
8-80-500-SA106-GRB-CS-2-STP	601 A	A41073-00007-A-SW	587-451	D-39
12-80-688-SA333-GR6-CS-14-STP	613 O	A41073-00019-A-SW	587-463	D-40
16-80-844-SA333-GR6-CS-15-STP	614 O	A41073-00020-A-SW	587-464	D-41
18-80-938-SA333-GR6-CS-3-STP	602 O	A41073-00008-A-SW	587-452	D-42
18-120-1.375-SA333-GR6-CS-4-STP	603 C	A41073-00009-A-SW	587-453	D-43
SG-NOZZ-SA508-CL2-CSCL-78-STP	679 O	A41073-00130-B-SW	586-343	D-44
30-X-1.375-SA155-GR KCF 70-CS-5-STP	604 O	A41073-00013-A-SW	587-454	D-45
31.13-X-2.125-SA155-GR KCF 70-CS-33-STP	632 B	A41073-00047-C-SW	587-482	D-46
31.63-X-2.375-SA155-GR KCF 70-CS-34-STP	632 C	A41073-00048-C-SW	587-483	D-47
32-X-1.375-SA420-GRWPL6-CS-74-STP	676 O	A41073-00124-A-SW	586-339	D-48
33.88-X-3.500-SA155-GR KCF 70-CS-35-STP	634 B	A41073-00049-C-SW	587-484	D-49
<b>PIPING CALIBRATION BLOCKS - STAINLESS STEEL</b>				
2-80S-210-SA312-GR304-SS-22-STP	628 C	A41073-00043-C-SW	587-471	D-50
4-160-531-SA312-GR304L-SS-6-STP	605 O	A41073-00011-A-SW	587-455	D-51
4-160-531-SA376-GR304-SS-7-STP	606 C	A41073-00012-A-SW	587-456	D-52
4-BC-SA182-GRF316-GR304-SS-77-STP	678 O	A41073-00135-B-SW	586-342	D-53
6-40S-280-SA312S-GR304-SS-84-STP	685 O	A41073-00139-A-SW	586-349	D-54
6-40S-280-SA312W-GR304-SS-85-STP	686 O	A41073-00140-A-SW	586-350	D-55
6-80S-432-SA312-GR304-SS-23-STP	621 B	A41073-00033-C-SW	587-472	D-56
6-160-719-SA312-GR304L-SS-8-STP	607 A	A41073-00013-B-SW	587-457	D-57
6-160-719-SA376-GR316-SS-9-STP	608 O	A41073-00014-A-SW	587-458	D-58
8-40S-322-SA312S-GR316-SS-86-STP	687 O	A41073-00141-A-SW	586-351	D-59
8-40S-322-SA312W-GR316-SS-87-STP	688 O	A41073-00142-A-SW	586-352	D-60
8-160-906-SA312-GR304L-SS-10-STP	609 O	A41073-00015-A-SW	587-459	D-61
8-160-906-SA376-GR316-SS-11-STP	610 O	A41073-00016-A-SW	587-460	D-62
8-BC-SA182-GRF316-SS-81-STP	682 B	A41073-00132-D-SW	586-346	D-63
10-140-1.000-SA312-GR304L-SS-57-STP	654 O	A41073-00097-A-SW	586-65	D-64
10-140-1.000-SA376-GR316-SS-58-STP	655 O	A41073-00098-A-SW	586-66	D-65
10-160-1.125-SA312-GR316-SS-25-STP	630 B	A41073-00045-B-SW	587-474	D-66
10-160-1.125-SA376-GR316-SS-26-STP	631 C	A41073-00046-B-SW	587-475	D-67
12-40S-375-SA312-GR304-SS-12-STP	611 A	A41073-00017-A-SW	587-461	D-68
12-40S-375-SA312-GR316-SS-13-STP	612 A	A41073-00018-A-SW	587-462	D-69
12-140-1.125-SA312-GR304L-SS-20-STP	619 A	A41073-00025-A-SW	587-469	D-70

## APPENDIX D

## ULTRASONIC CALIBRATION BLOCK DRAWINGS

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<b>PIPING CALIBRATION BLOCKS - STAINLESS STEEL (CONT'D)</b>				
12-140-1.125-SA376-GR316-SS-21-STP	620 B	A41073-00026-C-SW	587-470	D-71
12-160-1.312-SA312-GR304L-SS-27-STP	622 A	A41073-00032-A-SW	587-476	D-72
12-160-1.125-SA376-GR316-SS-28-STP	623 A	A41073-00031-B-SW	587-477	D-73
12-BC-SA182-GRF316-SS-82-STP	683 B	A41073-00133-D-SW	586-347	D-74
14-40-438-SA358-GR304-SS-29-STP	624 A	A41073-00030-B-SW	587-478	D-75
16-STD-.375-SA358-GR304-SS-30-STP	625 A	A41073-00029-B-SW	587-479	D-76
16-160-1.593-SA376-GR316-SS-16-STP	615 B	A41073-00021-B-SW	587-465	D-77
16-BC-SA182-GRF316-SS-83-STP	684 A	A41073-00134-C-SW	586-348	D-78
20-STD-.375-SA358-GR304-SS-31-STP	626 A	A41073-00028-B-SW	587-480	D-79
24-STD-.375-SA358-SS-32-STP	627 A	A41073-00027-B-SW	587-481	D-80
27.5-ID-2.370-SA351-CF8A-CCSS-17-STP	616 C	A41073-00022-D-SW	587-466	D-81
29-ID-2.500-SA351-CCSS-18-STP	617 D	A41073-00023-E-SW	587-467	D-82
31-ID-2.500-SA451-CP8M-CCSS-19-STP	618 G	A41073-00024-G-SW	587-468	D-83
31-ID-3.000-SA351-CF8A-CSS-80-STP	681 B	A41073-00128-C-SW	586-345	D-84
CCSS-PIPE REF. BLOCK-59-STP	658 A	A41073-00106-A-SW	586-67	D-85
31-CSS/29-CCSS-MOCKUP-60-STP	657 A SH 1	A41073-00105-B-SW	586-68	D-86
	657 A SH 2	A41073-00138-A-SW	-	D-87
PL-X-3.0-SA240-GR304-SS-79-STP	680 O	A41073-00131-B-SW	586-344	D-88



REVISIONS:

(1) 11/18/50 J. H. HARRIS  
 (2) 11/18/50 J. H. HARRIS  
 (3) 11/18/50 J. H. HARRIS  
 (4) 11/18/50 J. H. HARRIS  
 (5) 11/18/50 J. H. HARRIS  
 (6) 11/18/50 J. H. HARRIS  
 (7) 11/18/50 J. H. HARRIS  
 (8) 11/18/50 J. H. HARRIS  
 (9) 11/18/50 J. H. HARRIS  
 (10) 11/18/50 J. H. HARRIS  
 (11) 11/18/50 J. H. HARRIS  
 (12) 11/18/50 J. H. HARRIS  
 (13) 11/18/50 J. H. HARRIS  
 (14) 11/18/50 J. H. HARRIS  
 (15) 11/18/50 J. H. HARRIS  
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 (100) 11/18/50 J. H. HARRIS

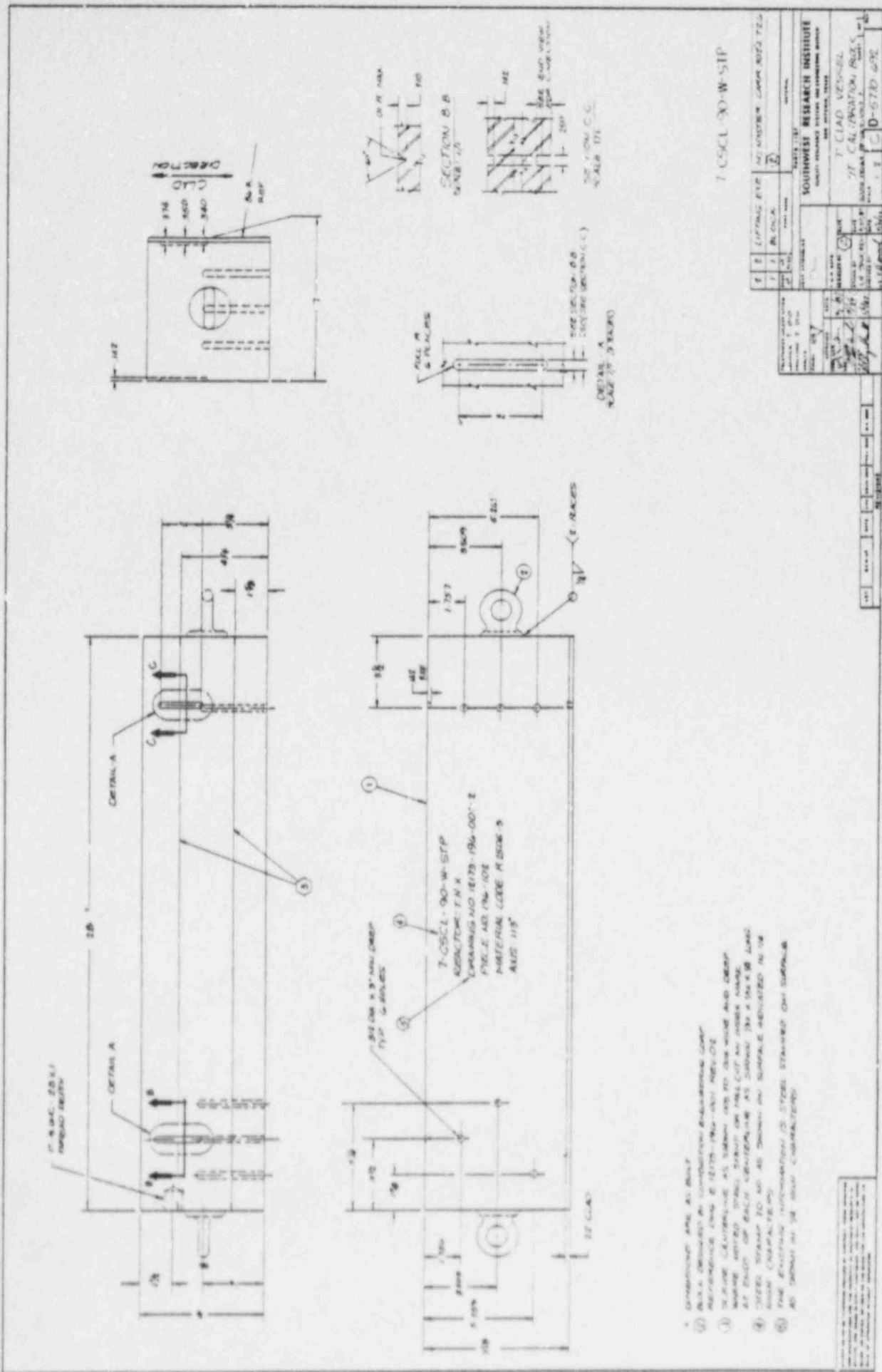
5-C5CL-09-W-STP

REV.	DATE	BY	CHKD.
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SOUTHWEST RESEARCH INSTITUTE  
 600 SOUTH GULF BLVD.  
 EL PASO, TEXAS 79962

UT CALIBRATION BUREAU  
 1000 W. 10TH ST.  
 EL PASO, TEXAS 79910

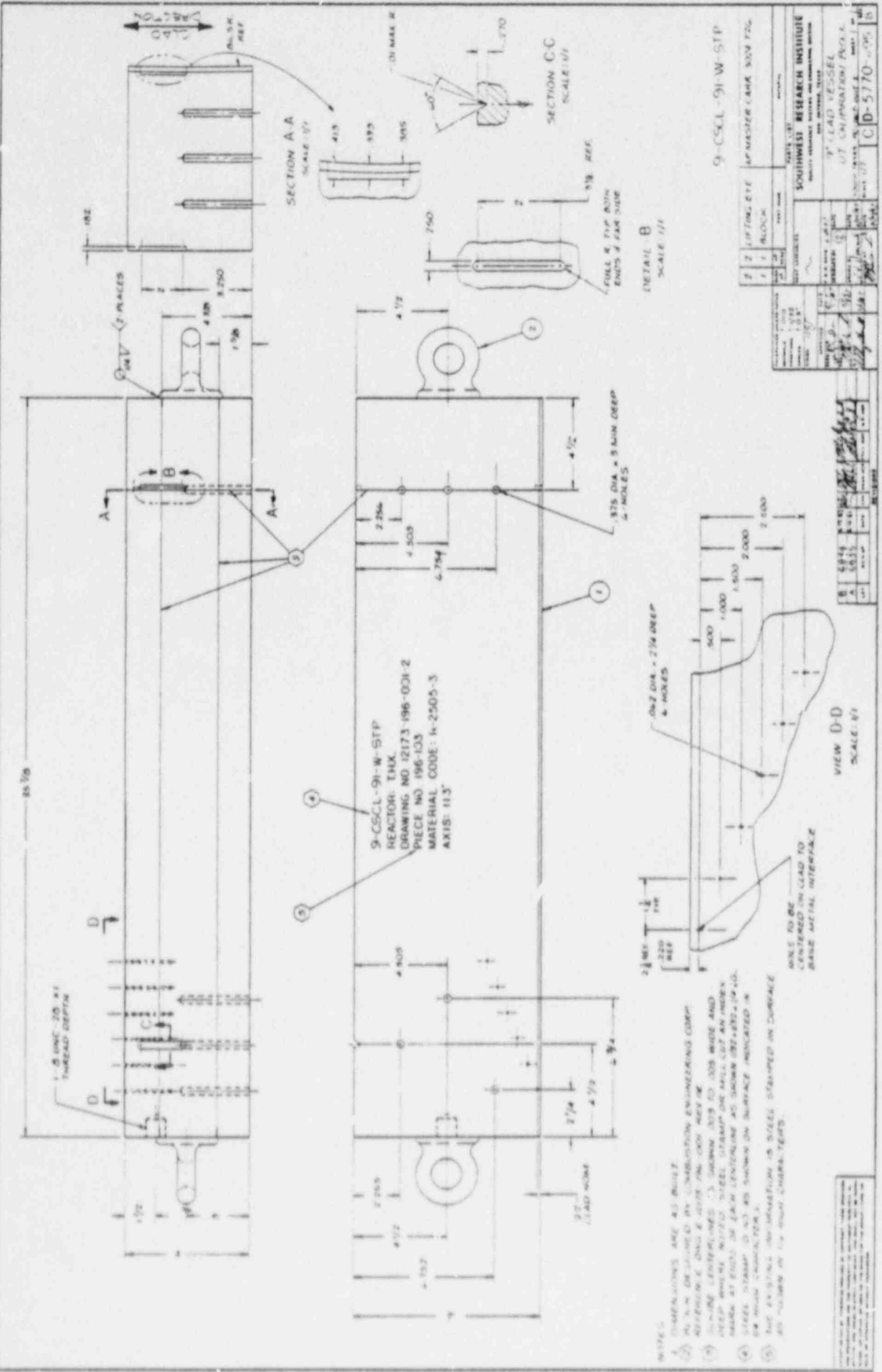
C 10-2730-234



7-CSCCL-90-W-SFP

REV	DATE	BY	CHKD	DESCRIPTION
1	10/1/74	J. J. [Signature]	[Signature]	ISSUED FOR FABRICATION
2	10/1/74	J. J. [Signature]	[Signature]	ISSUED FOR FABRICATION
3	10/1/74	J. J. [Signature]	[Signature]	ISSUED FOR FABRICATION
4	10/1/74	J. J. [Signature]	[Signature]	ISSUED FOR FABRICATION
5	10/1/74	J. J. [Signature]	[Signature]	ISSUED FOR FABRICATION

SOUTHWEST RESEARCH INSTITUTE	
UNIVERSITY OF CALIFORNIA, SAN DIEGO	
7-CSCCL-90-W-SFP	
DRAWING NO. 1879-194-001-2	
FILE AND 194-106	
MATERIAL CODE RESOR-9	
ALUS 113	
SCALE: 1/4" = 1"	
DATE: 10/1/74	
BY: J. J. [Signature]	
CHKD: [Signature]	
TITLE: 7-CSCCL-90-W-SFP	
PROJECT: 1879-194-001-2	
SHEET NO. 1 OF 1	



**NOTES:**

1. DIMENSIONS ARE AS SHOWN.
2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
5. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

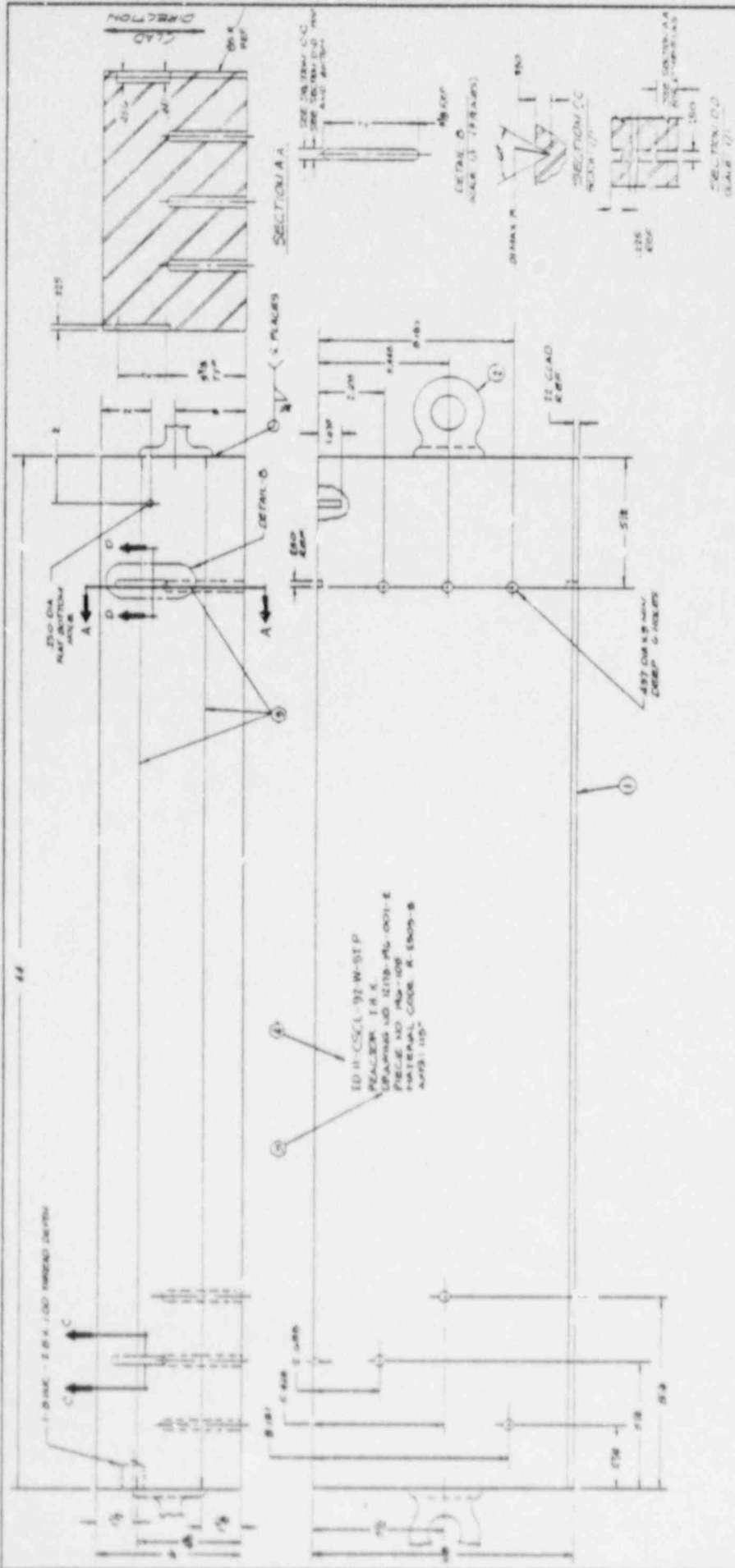
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REACTOR THX.  
DRAWING NO 12173-196-001-2  
PIECE NO 196-103  
MATERIAL CODE: H-2505-3  
AXIS: 113

DATE	1966	BY	J. W. B.
REV	1	DESCRIPTION	ISSUE FOR FABRICATION
REV	2	DESCRIPTION	ISSUE FOR FABRICATION
REV	3	DESCRIPTION	ISSUE FOR FABRICATION
REV	4	DESCRIPTION	ISSUE FOR FABRICATION
REV	5	DESCRIPTION	ISSUE FOR FABRICATION

**SOUTHWEST RESEARCH INSTITUTE**  
P.O. BOX 2170  
SAN ANTONIO, TEXAS 78284

**UT-CAMPUS**  
UNIVERSITY OF TEXAS AT CINCINNATI

**CD-5170-005**



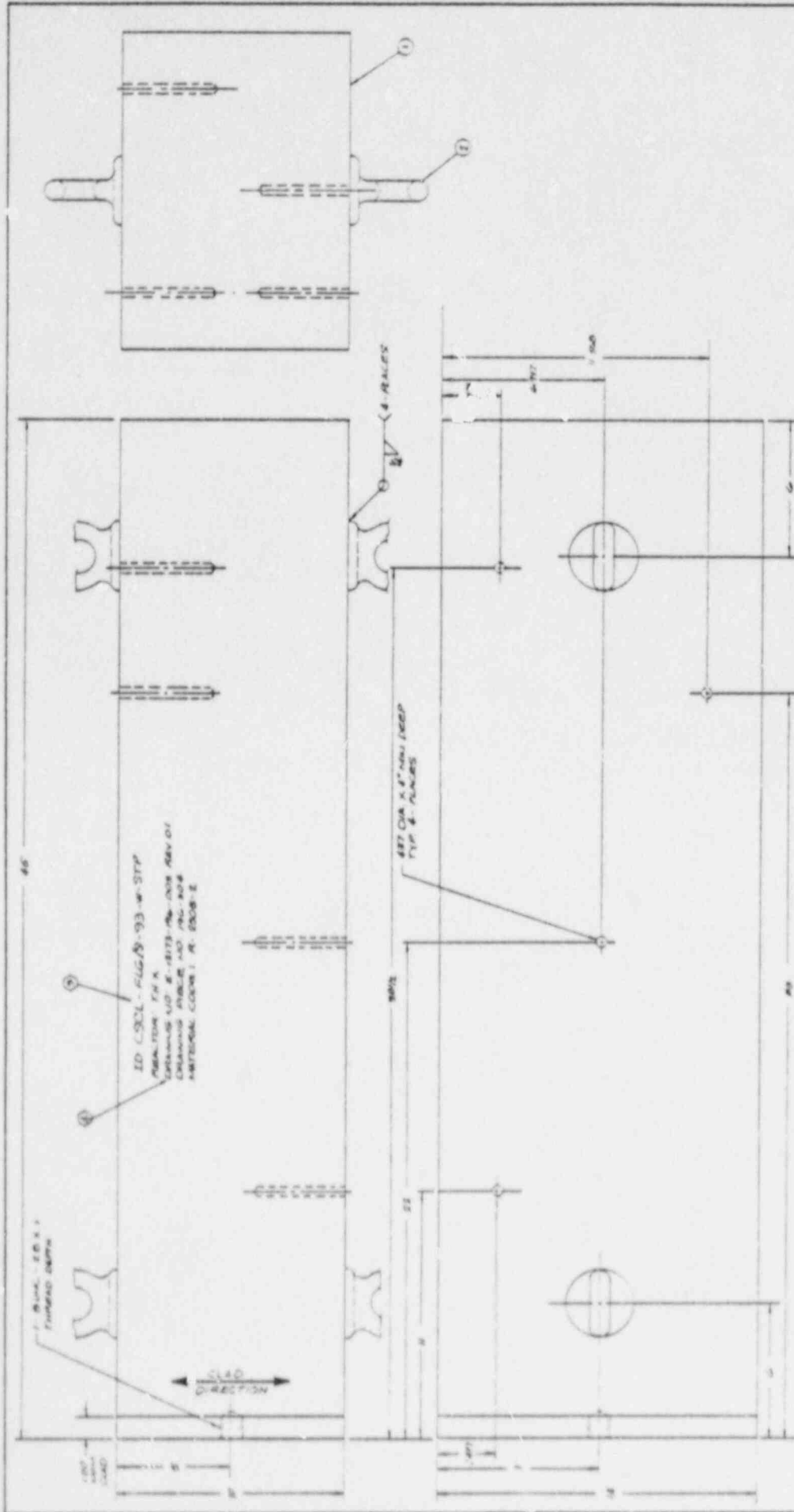
- 1. DIMENSIONS ARE IN MILLIMETERS
- 2. DRAWING IS A CONSTRUCTION DRAWING ONLY
- 3. DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED
- 4. DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED
- 5. DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED
- 6. DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED

II CSEL-92W-9TP

REV	DATE	BY	CHKD	DESCRIPTION
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5				ISSUED FOR FABRICATION

SOUTHWEST RESEARCH INSTITUTE  
 6700 SOUTH UNIVERSITY AVENUE  
 DENVER, COLORADO 80202  
 U-135 CALIBRATION BLOCK  
 SCALE 1/1  
 DATE 11-1-78  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]



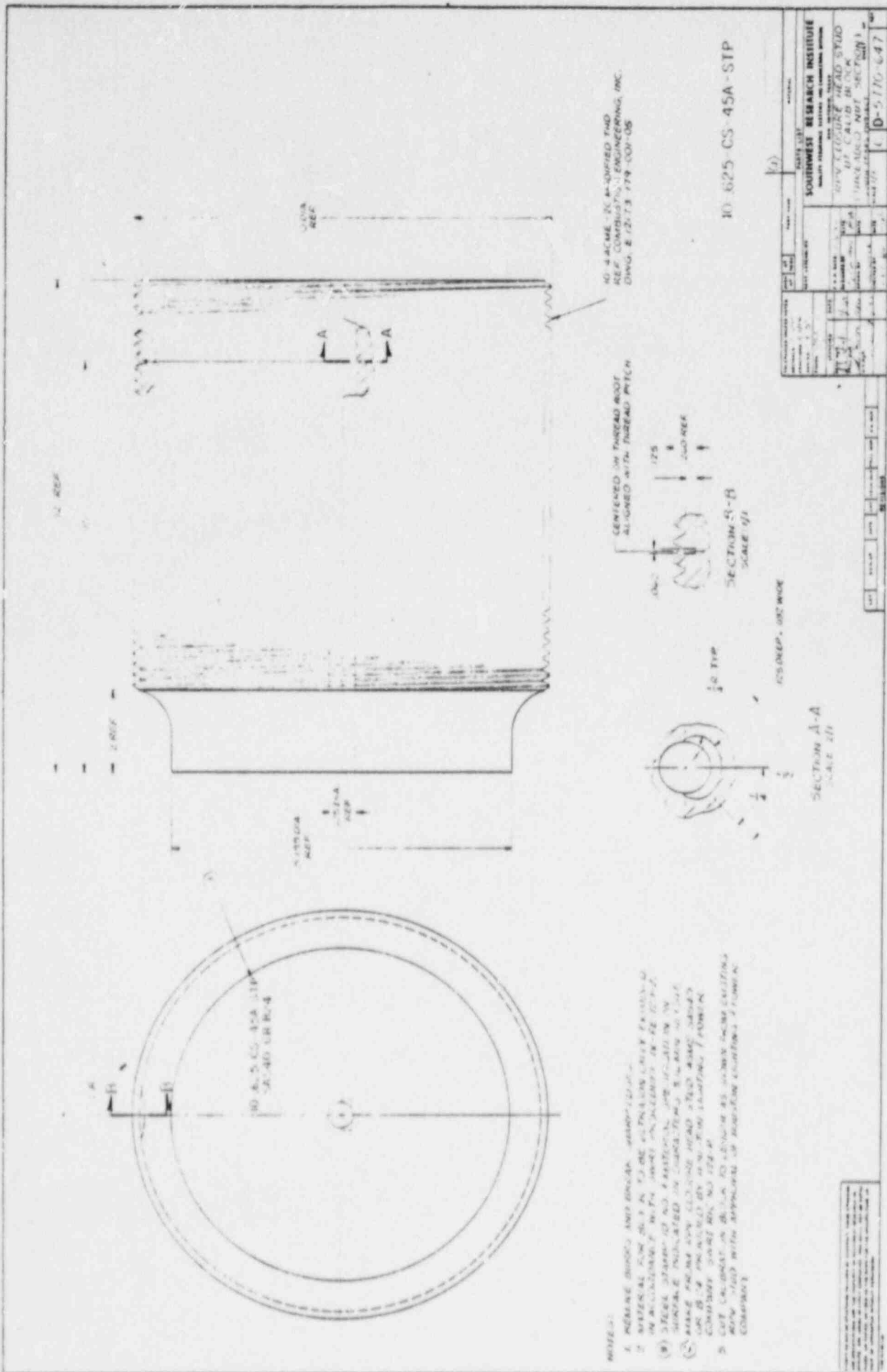


ID C-32L-FUG-93-W-STP  
 PARTITION FOR  
 EXAMINATION AND E-8179-100-008 REV. 01  
 DRAWING SYMBOL AND FOR 408  
 ANTENNA COVER 1 R-0008-E

C-32L-FUG-93-W-STP

QTY	1
DESCRIPTION	LIFTING EYE
DATE	11/27/57
DESIGNED BY	W. H. HARRIS
CHECKED BY	J. R. HARRIS
APPROVED BY	[Signature]
SCALE	1:1
SOUTHWEST RESEARCH INSTITUTE	
2602 DUBLIN AVENUE, EL PASO, TEXAS 79967	
UNCLASSIFIED	
DATE 11/27/57	
BY W. H. HARRIS	
CHECKED BY J. R. HARRIS	
APPROVED BY [Signature]	
FLANGE/UPPER SHELL (SHOWN HELD)	
BY CALIBRATION BLOCK	
2602 DUBLIN AVENUE, EL PASO, TEXAS 79967	
UNCLASSIFIED	
DATE 11/27/57	
BY W. H. HARRIS	
CHECKED BY J. R. HARRIS	
APPROVED BY [Signature]	

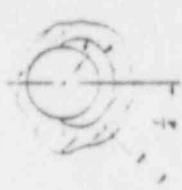
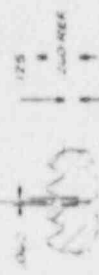
1. DIMENSIONS ARE AS SHOWN  
 2. ALL DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED  
 3. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED  
 4. DIMENSIONS ARE TO SURFACE UNLESS OTHERWISE SPECIFIED  
 5. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED  
 6. DIMENSIONS ARE TO SURFACE UNLESS OTHERWISE SPECIFIED



NOTES:

1. REFERENCE SHOULD BE MADE TO DRAWING 10-625-CS-45A-1 FOR GENERAL DIMENSIONS AND MATERIAL SPECIFICATIONS.
2. THIS DRAWING IS A PART OF THE DESIGN FOR THE TURBINE NOZZLE ASSEMBLY.
3. THE TAPERED PORTION OF THE NOZZLE IS TO BE MACHINED TO THE DIMENSIONS SHOWN IN THIS DRAWING.
4. THE TAPERED PORTION OF THE NOZZLE IS TO BE MACHINED TO THE DIMENSIONS SHOWN IN THIS DRAWING.
5. THE TAPERED PORTION OF THE NOZZLE IS TO BE MACHINED TO THE DIMENSIONS SHOWN IN THIS DRAWING.

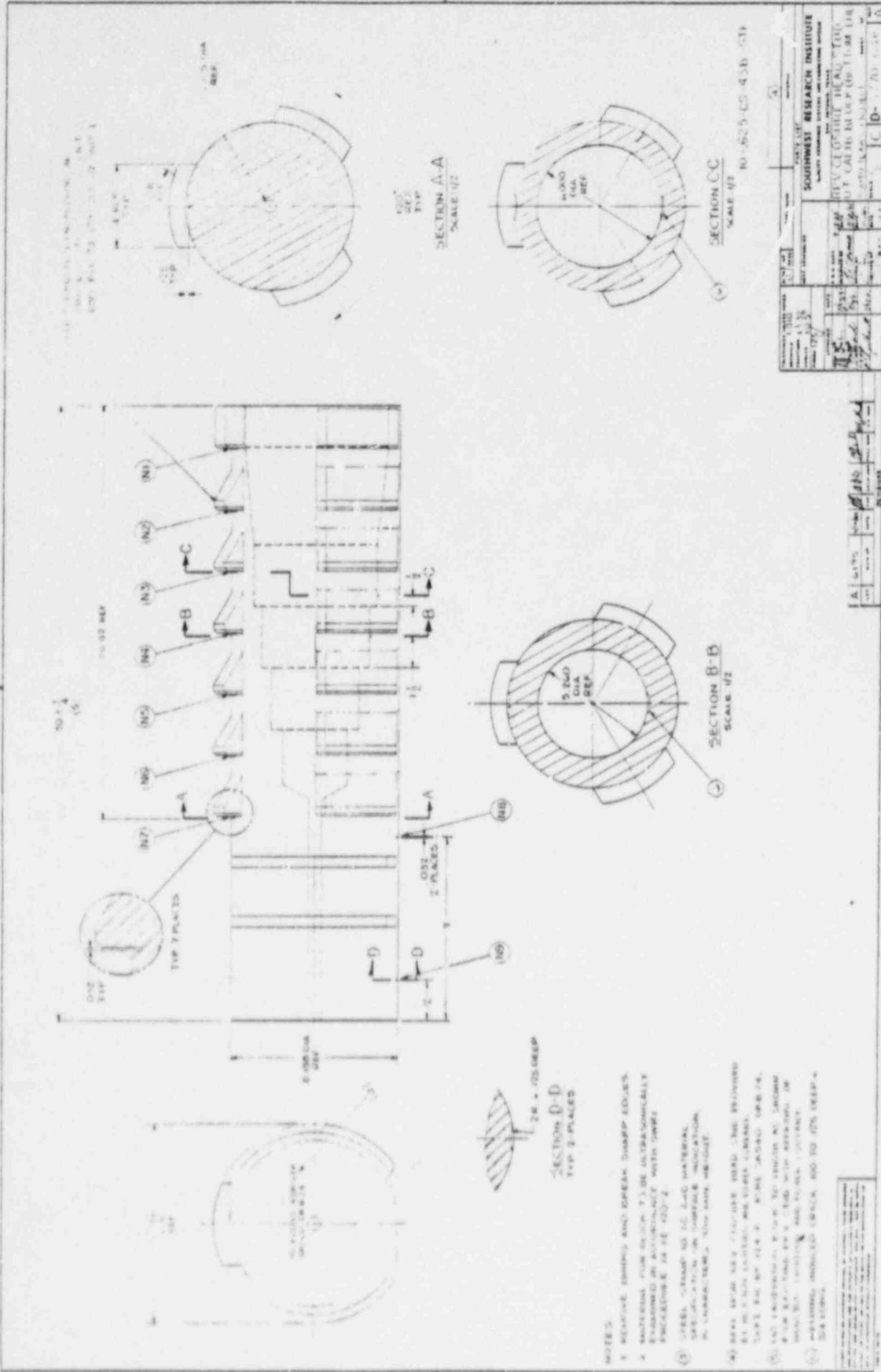
CENTERED ON TAPERED ROOT  
ALIGNED WITH TAPERED PORTION



10-625-CS-45A-1  
REF. CONSTRUCTION ENGINEERING, INC.  
DIVISION 8 12173 179 001-05

10-625-CS-45A-STP

DATE		DRAWN		CHECKED	
10-625-CS-45A-STP		10-625-CS-45A-STP		10-625-CS-45A-STP	
SOUTHWEST RESEARCH INSTITUTE					
SOUTH WEST RESEARCH INSTITUTE AND ASSOCIATED COMPANIES					
1735 E. UNIVERSITY AVENUE, DENVER, COLORADO 80202					
TELEPHONE 333-3800					
FAX 333-3801					
CABLE SWRI					
POST OFFICE BOX 2170, DENVER, COLORADO 80201					
D-5170-647					



ALL DIMENSIONS UNLESS OTHERWISE SHOWN  
 DIMENSIONS ARE IN INCHES  
 DIMENSIONS ARE IN MILLIMETERS

100° CHAMFER  
 3.500 DIA REF

SECTION A-A  
 SCALE 1/2

SECTION C-C  
 SCALE 1/2

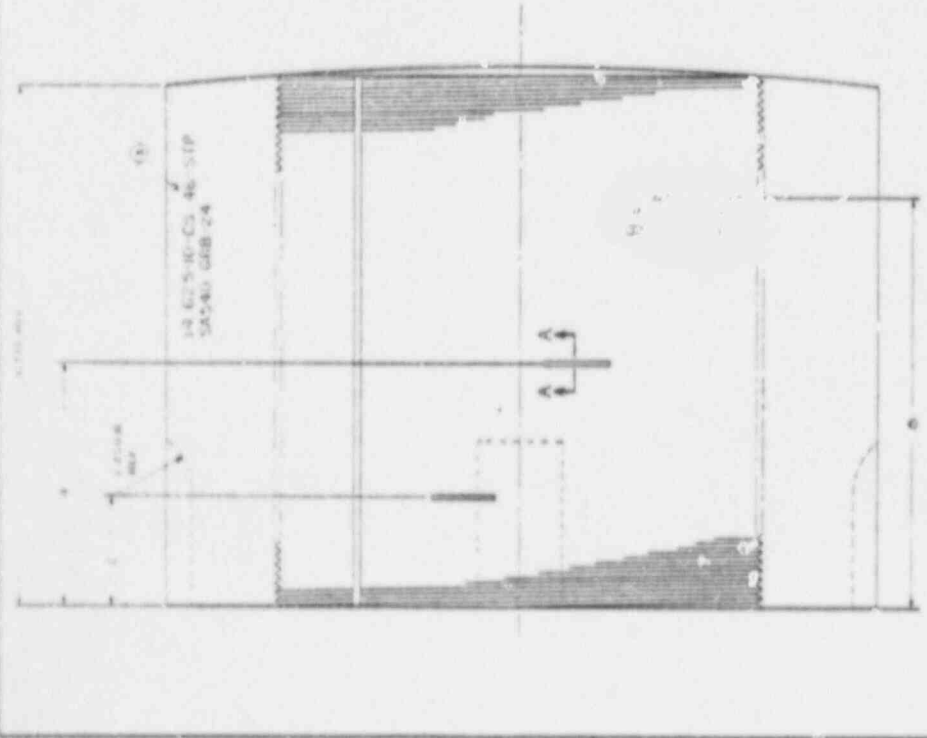
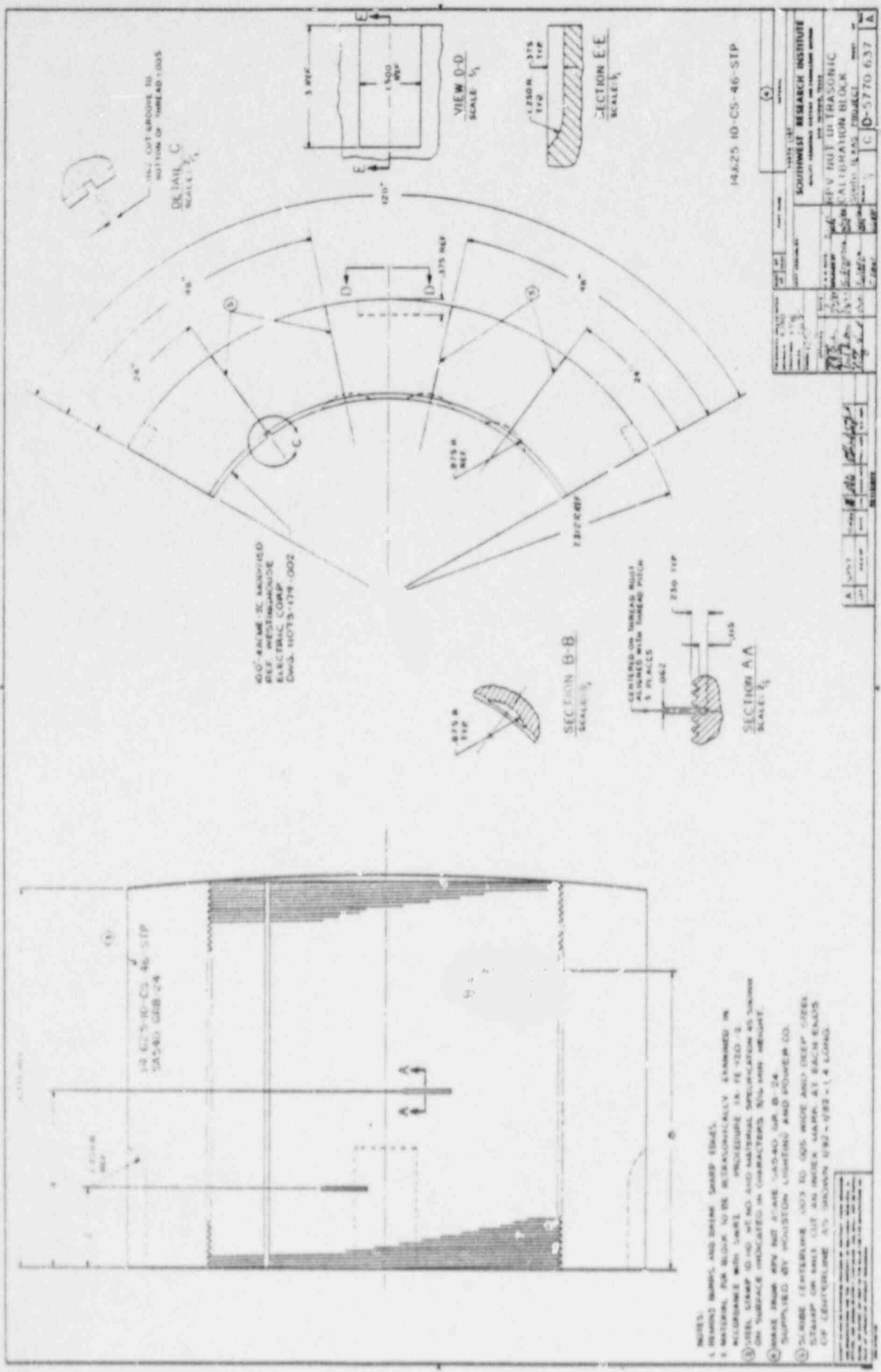
SECTION B-B  
 SCALE 1/2

- NOTES:
- 1) REMOVE EDGES AND BREAK SHARP EDGES
  - 2) MATERIAL FOR ALL DIM. 1) IS ULTRACHROMEALLY ENHANCED IN ALL DIMENSIONS WITH DIMENSIONS EXCEEDED IN 14-16-100-2
  - 3) OPERA. STAMP AS TO LOG MATERIAL SPECIFICATION ON INTERNAL INDICATION. IN CONSTRUCTION, SHOW DATE, WEIGHT.
  - 4) SEAL BEARING AND FLANGES HEAD AND BEARING IS TO BE USED IN ALL CASES. SEE DRAWING FOR ALL DIMENSIONS. SEE 14-16-100-2.
  - 5) ALL DIMENSIONS TO BE TO DIMENSIONS AS SHOWN UNLESS OTHERWISE NOTED WITH APPROPRIATE DIMENSIONS. DIMENSIONS AND TOLERANCES TO BE AS SHOWN UNLESS OTHERWISE NOTED.
  - 6) ALL DIMENSIONS TO BE TO DIMENSIONS AS SHOWN UNLESS OTHERWISE NOTED.

REV.	DATE	BY	CHKD.	DESCRIPTION
1	10/1/53			REV. CLOSURE HEAD DETAIL
2	10/1/53			REV. CLOSURE HEAD DETAIL
3	10/1/53			REV. CLOSURE HEAD DETAIL
4	10/1/53			REV. CLOSURE HEAD DETAIL
5	10/1/53			REV. CLOSURE HEAD DETAIL
6	10/1/53			REV. CLOSURE HEAD DETAIL
7	10/1/53			REV. CLOSURE HEAD DETAIL
8	10/1/53			REV. CLOSURE HEAD DETAIL
9	10/1/53			REV. CLOSURE HEAD DETAIL
10	10/1/53			REV. CLOSURE HEAD DETAIL

NO.	DATE	BY	CHKD.	DESCRIPTION
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NO.	DATE	BY	CHKD.	DESCRIPTION
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10	10/1/53			REV. CLOSURE HEAD DETAIL



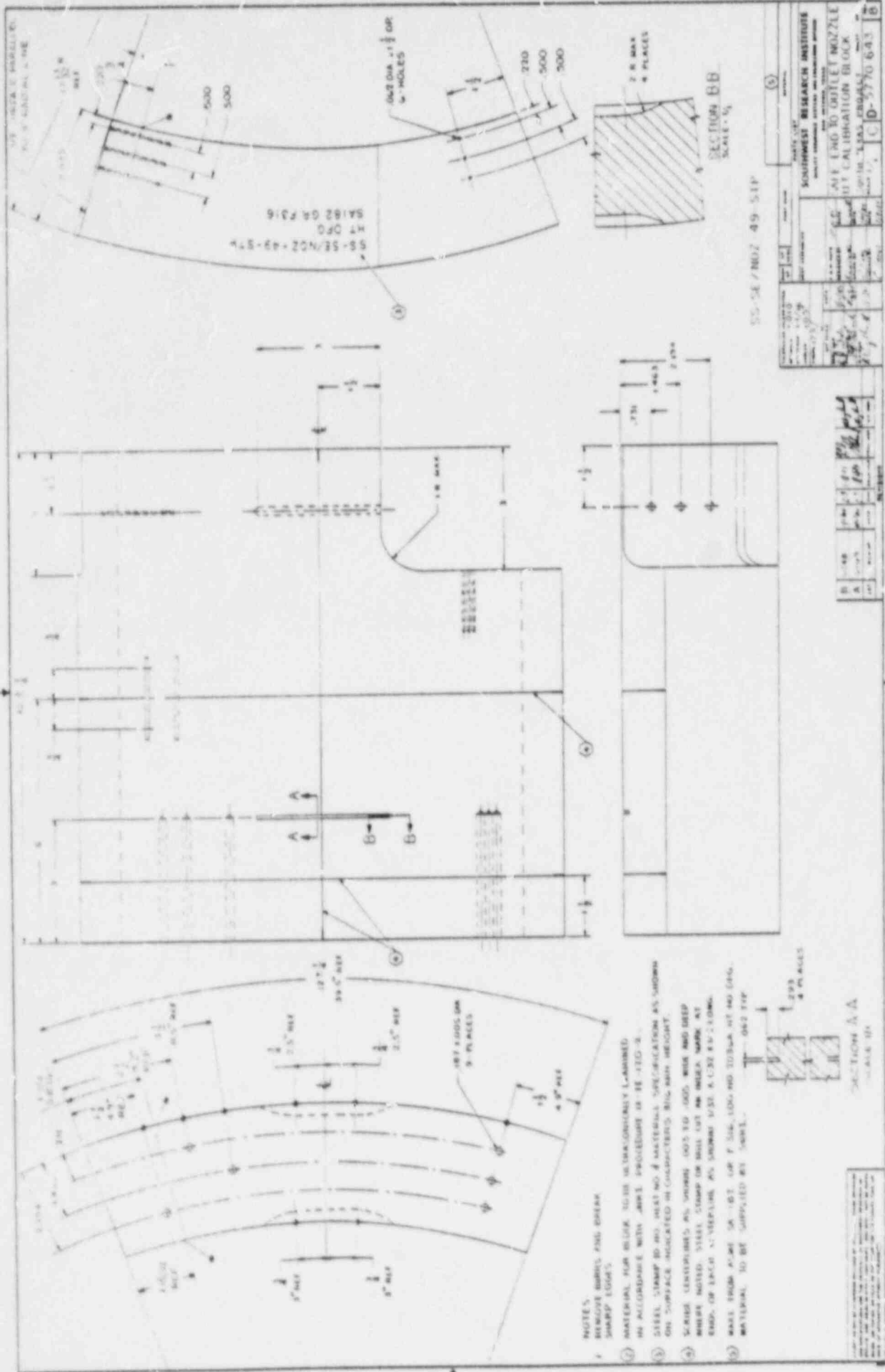
- NOTES:
1. REMOVE BURRS AND BRING SHARP EDGES.
  2. MATERIAL FOR BLOCK TO BE METROLOGICALLY EXAMINED IN ACCORDANCE WITH LMIPL PROCEDURE 1A-1E-120-2.
  3. STEEL STAMP ID-NO AT NO. AND MATERIAL SPECIFICATION AS SHOWN ON SURFACE INDICATED IN CHARACTERS 10th AND 11th REIGHT.
  4. MAKE FROM RTV NOT STAGE (AS-40 SUP. B-24).
  5. SUPPLIED BY HOUSTON LIGHTING AND POWER CO.
  6. SCRIBE CENTERLINE 0.05 TO 0.05 WIDE AND DEEP (SEE STAMP ON THIS LIST AND INDEX MARKS AT EACH END OF CENTERLINE AS SHOWN 0.82-0.82-1.4 LONG).

SOUTHWEST RESEARCH INSTITUTE	
PROJECT NO.	14.625-10-CS-46-STP
DESIGNER	W. J. HARRIS
CHECKED	W. J. HARRIS
DATE	APR 22, 1954
DRAWN	W. J. HARRIS
SCALE	AS SHOWN
WORK CENTER	PHYSICS
APPROVED	W. J. HARRIS
DATE	APR 22, 1954
BY	W. J. HARRIS
FOR	SPV TRU THULTRASONIC CALIBRATION BLOCK
PROJECT NO.	14.625-10-CS-46-STP
DATE	APR 22, 1954
BY	W. J. HARRIS
FOR	SPV TRU THULTRASONIC CALIBRATION BLOCK
PROJECT NO.	14.625-10-CS-46-STP
DATE	APR 22, 1954
BY	W. J. HARRIS
FOR	SPV TRU THULTRASONIC CALIBRATION BLOCK

NO.	REVISION	DATE	BY	FOR
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2				
3				
4				
5				

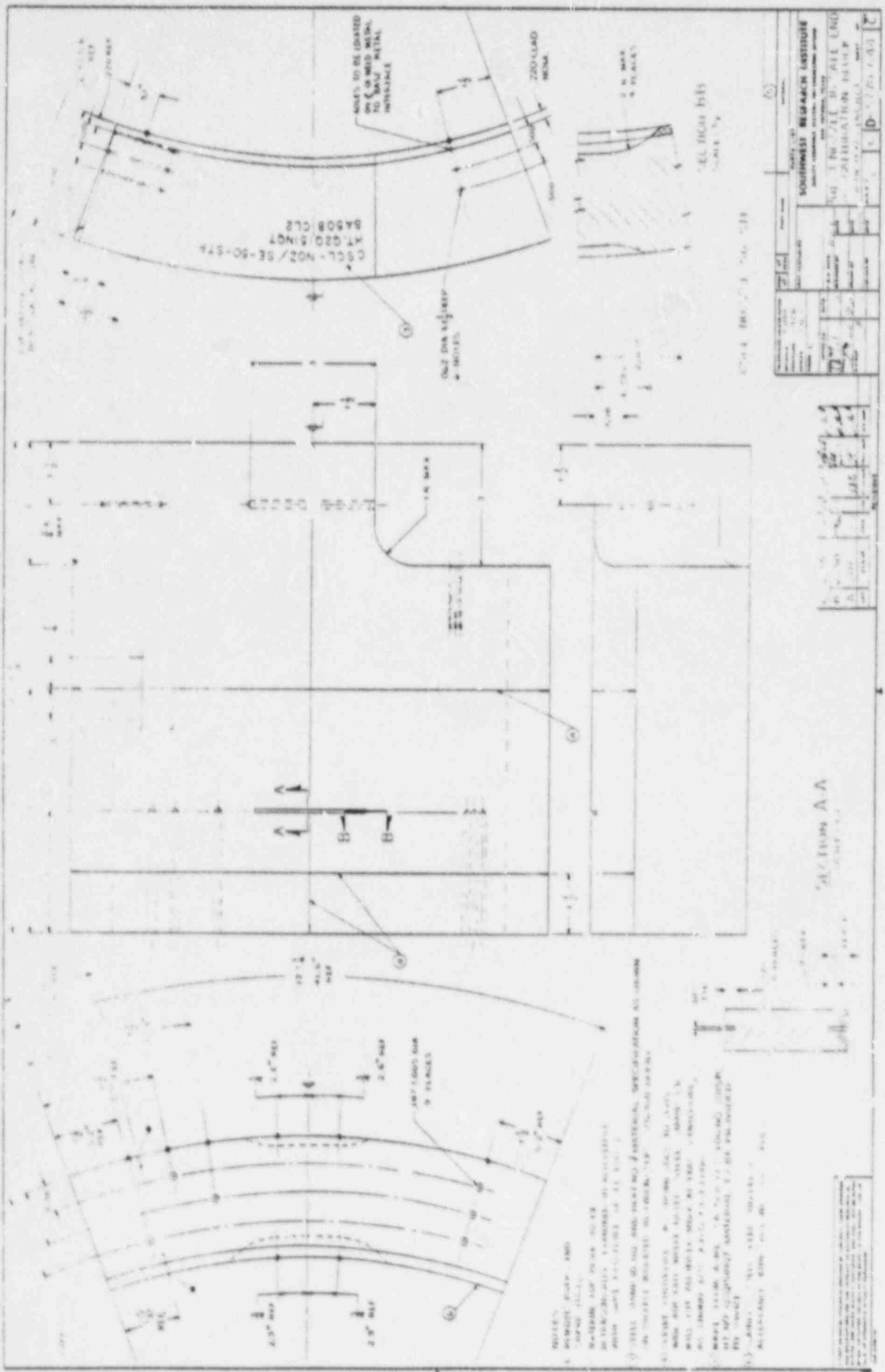






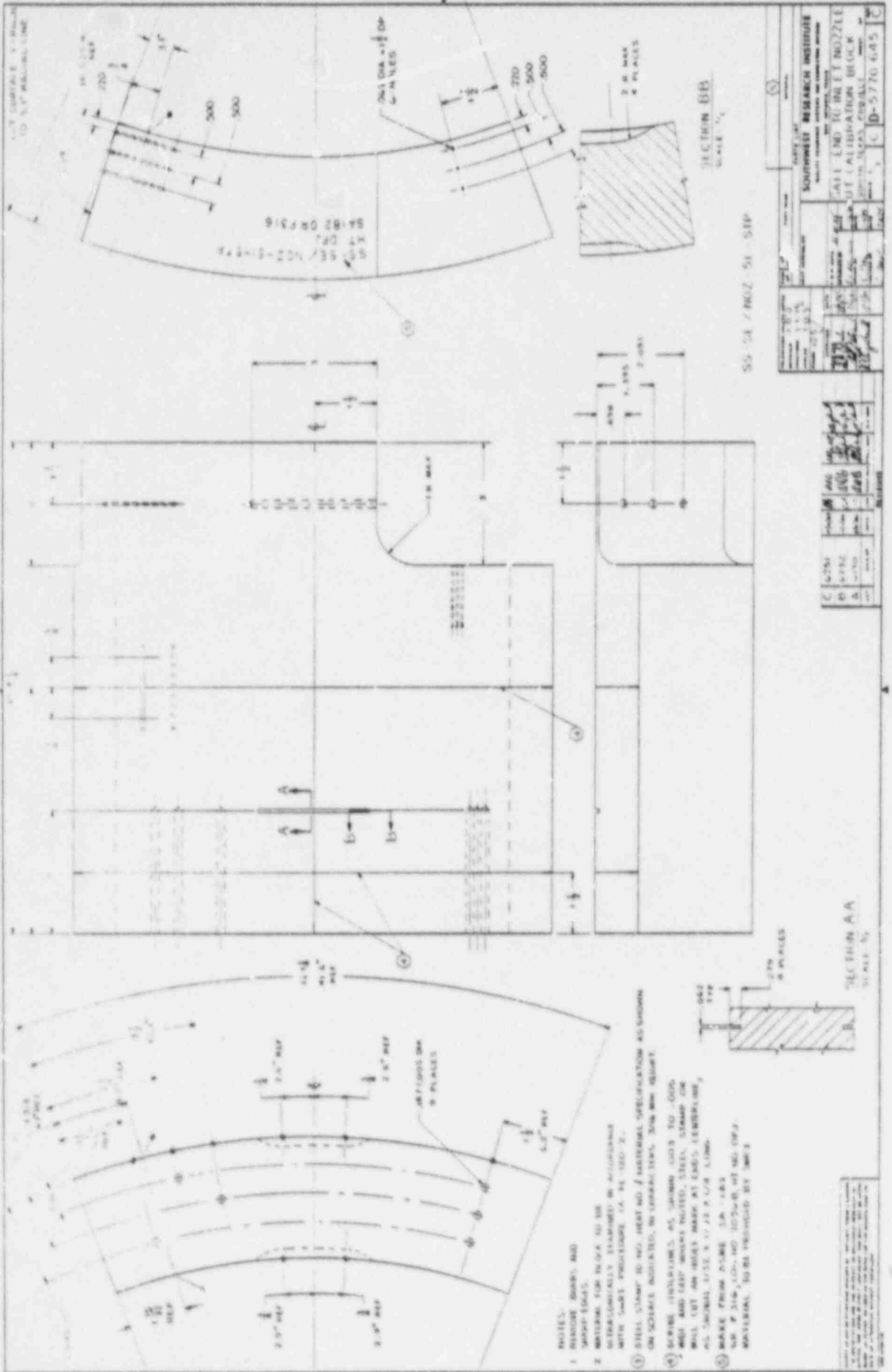
NOTES

1. DIMENSIONS SHOWN ARE NOMINAL.
2. MATERIAL FOR BLK. TO BE UNIFORMITY LAMINATED.
3. ALL SURFACES TO BE FINISHED TO A 32 RMS SURFACE.
4. STEEL STAMP TO BE MADE TO SPECIFICATION AS SHOWN ON SURFACE INDICATED BY CONDUCTED BY WITH HEAVY.
5. SCREW LENGTHS ARE SHOWN IN INCHES AND DEEP WHERE APPLICABLE. STEEL STAMP OR BOLT SET AN AREA MARK AT ENDS OF EACH SECTION AS SHOWN IN SECTION C-C.
6. BOLT FROM ANGLE IS TO BE OF 5/16" DIA. AND TO BE OF 1/2" MATERIAL TO BE SUPPLIED BY S&W.



<b>SOUTHWEST RESEARCH INSTITUTE</b> 600 UNIVERSITY AVENUE, DENVER, COLORADO 80202	
PROJECT NO. 100-100-100-100-100 DRAWING NO. 100-100-100-100-100	DATE 10/10/10 SCALE 1/4" = 1'-0"
DRAWN BY: [Name] CHECKED BY: [Name]	APPROVED BY: [Name]



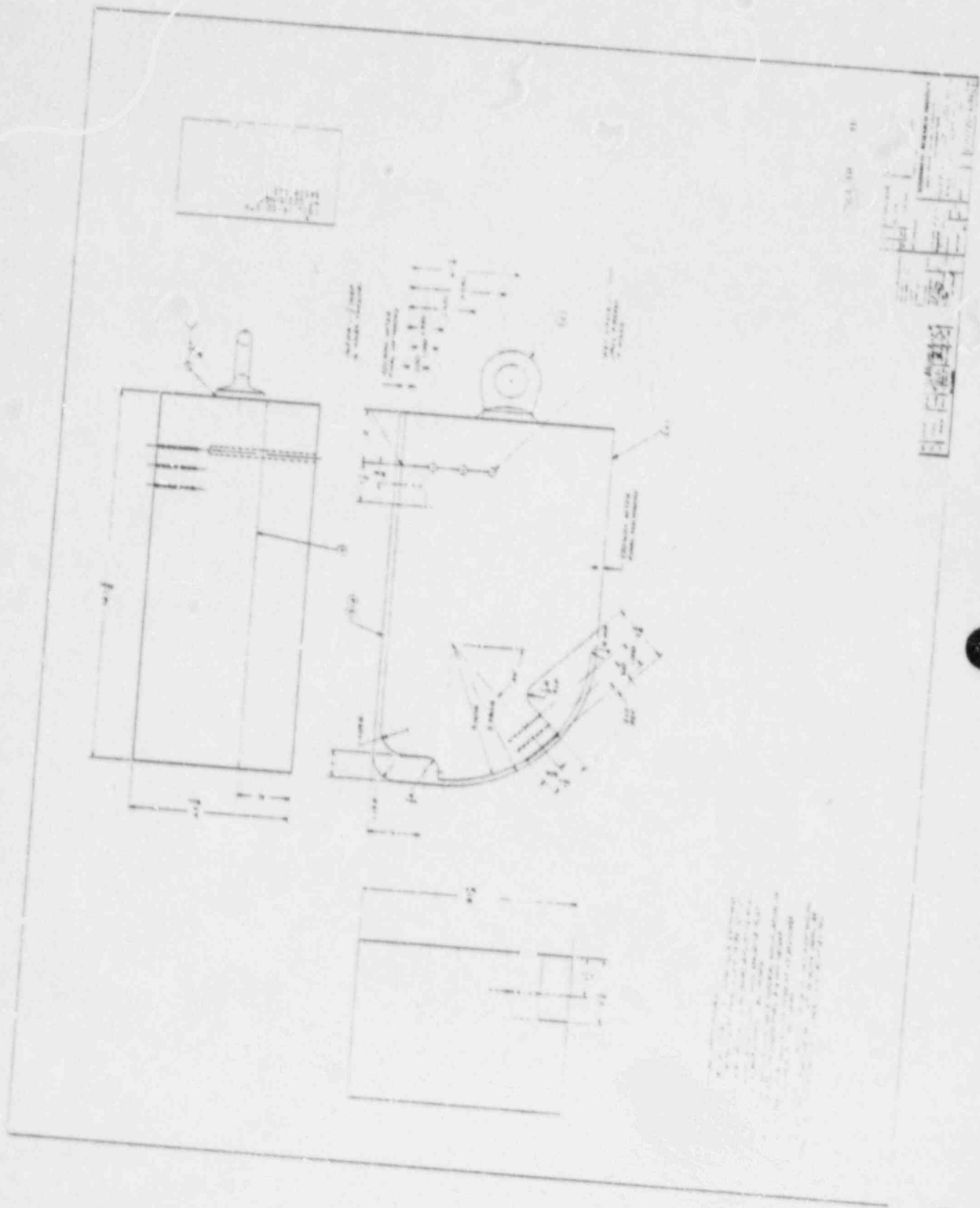


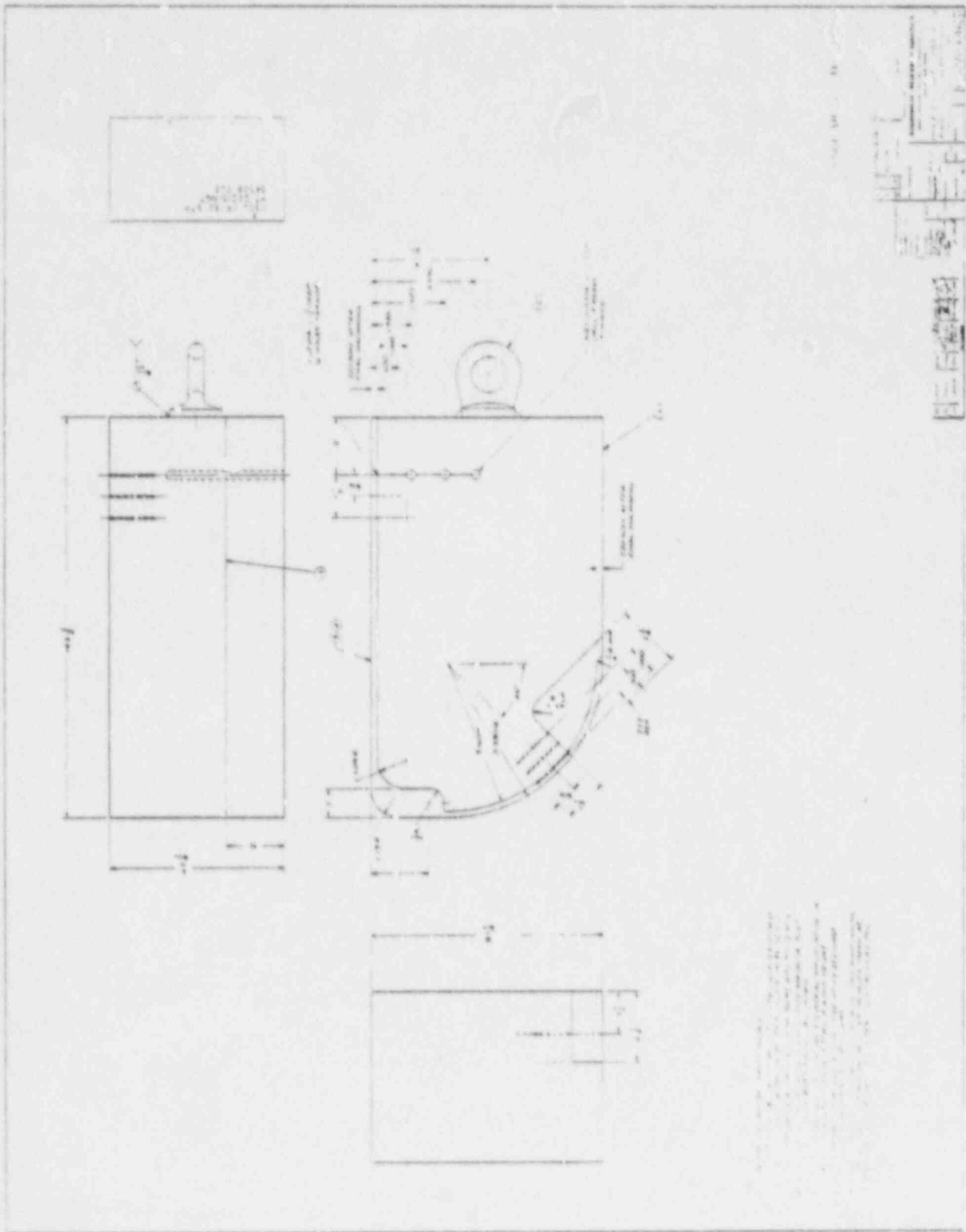
- 1 FINISH DIMS. AND SHARP EDGES.
- 2 MATERIAL FOR IN CHG. TO BE INTERIORLY STANDARD IN ACCORDANCE WITH MIL-STD-208, SA 181-100-2.
- 3 STEEL STAMP TO BE MADE OF MATERIAL SPECIFICATION AS SHOWN ON DRAWING INDICATED, IN GENERAL, 201B MIN. REQ'T.
- 4 BENDING OPERATIONS AS SHOWN GOES TO -0.001 WELD AND GRIP MUST BE MADE, STEEL STAMP ON WALL CUT AND BEARS MARK AT END, GENERAL, AS SHOWN, SIZE 1/8" X 1/8" X 1/8" LONG.
- 5 MARKS FROM STAKE 1/8" DIA. SP. 2 1/4" DIA. AND 1/2" DIA. ARE NO. OF MATERIAL TO BE PROVIDED BY SUPP.

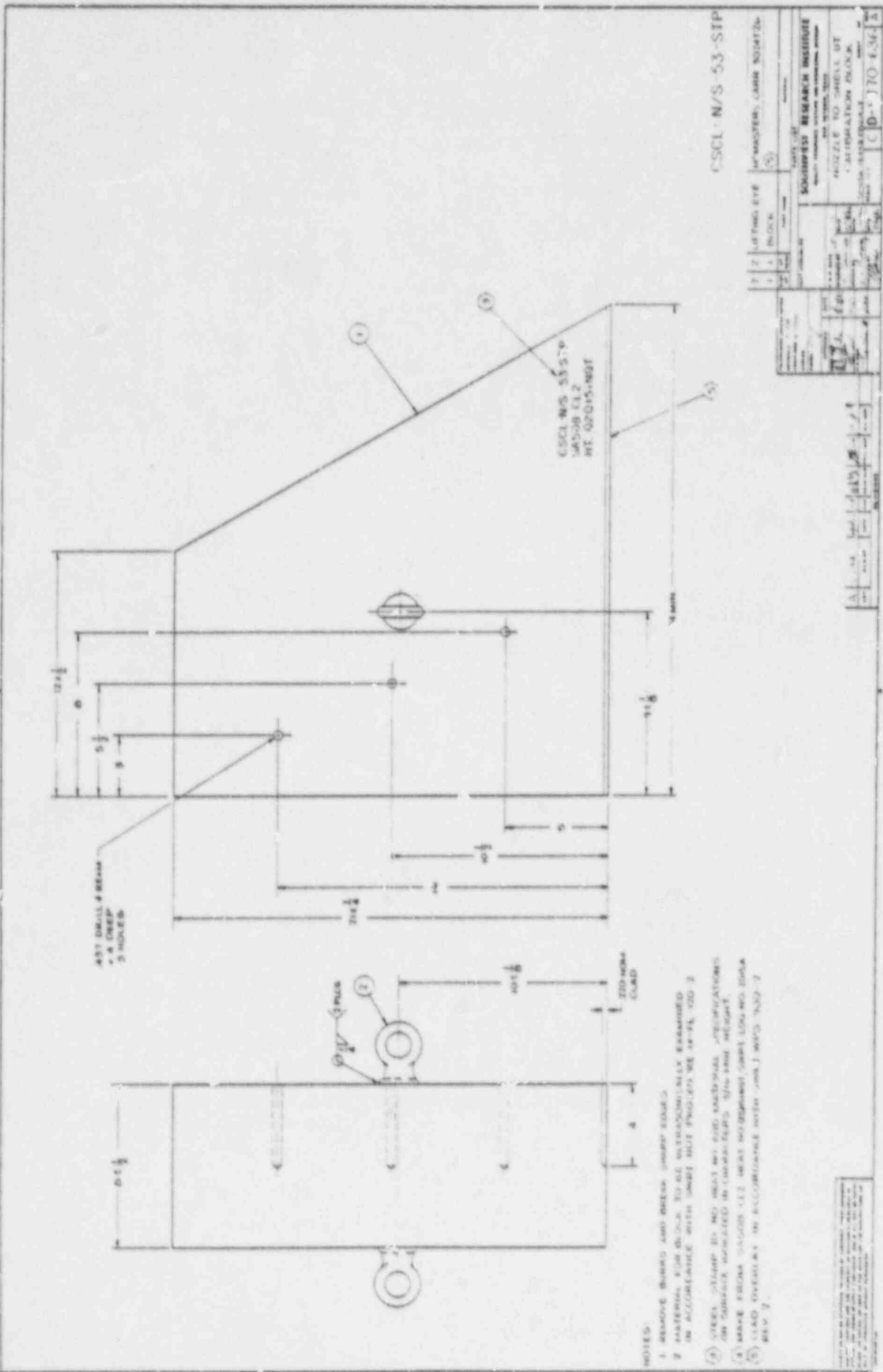
C 6-278	6-278	6-278	6-278	6-278
D 6-278	6-278	6-278	6-278	6-278
E 6-278	6-278	6-278	6-278	6-278

SECTION BB  
 SCALE 1/4" = 1"

SOUTHWEST RESEARCH INSTITUTE	
3100 UNIVERSITY BLVD. EL PASO, TEXAS 79967 TEL. 957-3880	DRAWING NO. 6-278 REV. 001 PROJECT NO. D-5770-6-45







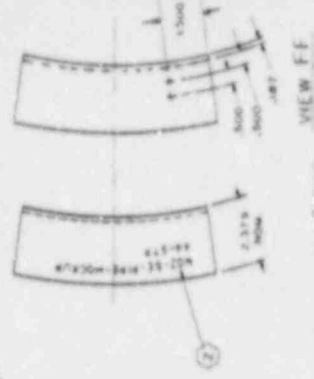
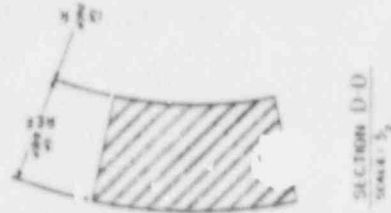
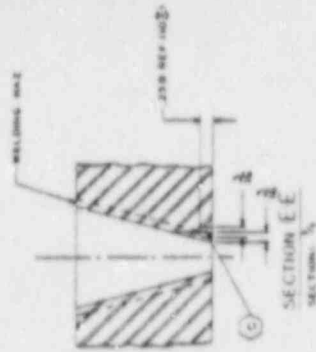
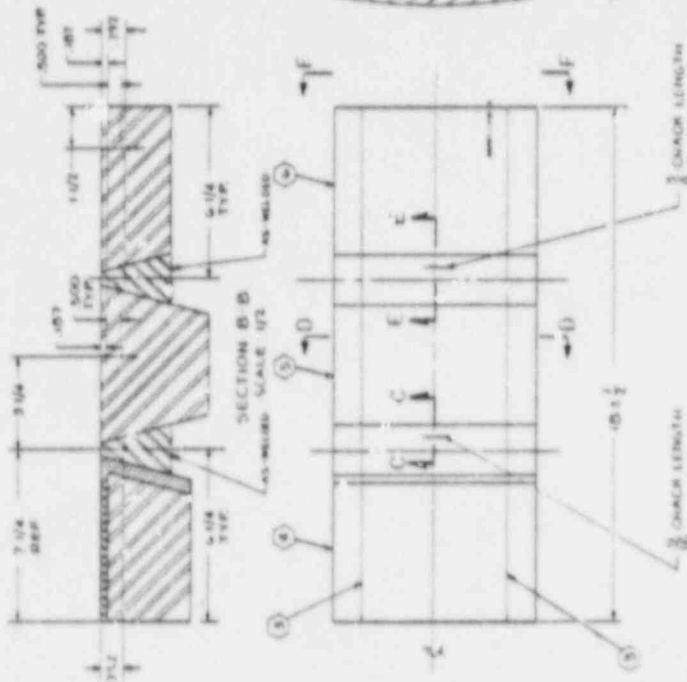
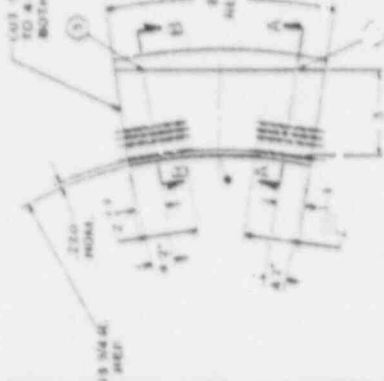
CSCL N/S 53-SIP

1/2	LIFTING EYE	1
1	BLOCK	5
SOUTHWEST RESEARCH INSTITUTE 6001 GULF BLVD., SUITE 100 HOUSTON, TEXAS 77057 PHONE (713) 297-2500 TELETYPE (713) 297-2500 CABLE SWRI AIRTEL SWRI		
PROJECT NO. SHELL UT INFORMATION BLOCK DRAWING NO. SHELL UT SHEET NO. 1 TO 5		

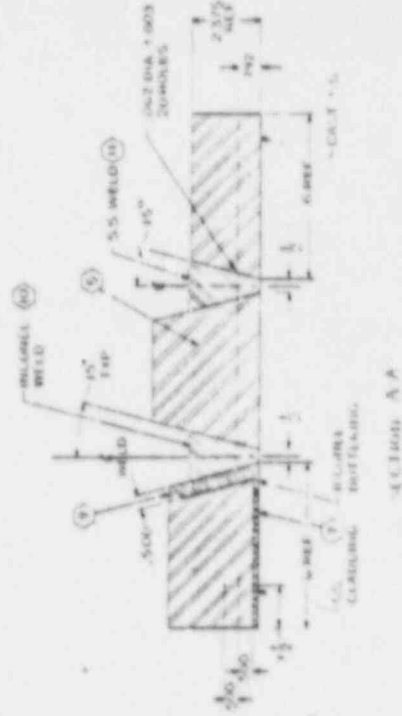
- NOTES
- 1 REMOVE BURNS AND BRASS JUMP EDGES
  - 2 PARTS FOR BLOCK TO BE MECHANICALLY EXAMINED IN ACCORDANCE WITH DIME BUT PROCEED TO STEP 2
  - 3 STEEL PLATE IS NOT TO BE USED IN ANY OTHER APPLICATIONS OR SUBJECTS, UNLESS IN CONSULTATION WITH THE DESIGNER.
  - 4 MAKE FROM 5083 U.L.2 WITH NO STRENGTHENING ORS TO BE USED.
  - 5 LOAD OVERLAY IN ACCORDANCE WITH (SHELL) SPECS 500-7 REV 7.

REFERENCE CONNECTIONS: CONCRETE (SP13)  
SCL218 - 45 INCH TYPICAL  
SCL219 - 65 INCH TYPICAL  
SCL220 - 125 INCH  
SCL221 - 150 INCH  
SCL222 - 125 INCH  
SCL223 - 150 INCH

1/8" SURFACE PARALLEL  
TO 4" RADIAL LINE  
BOTH SIDES



- NOTES:
- 1 REMOVE BUMPS AND BENDS IMMEDIATELY.
  - 2 STEEL STAMP TO BE ON SURFACE OF CATED IN CHARACTER BY AREA HEIGHT.
  - 3 SQUARE CENTERLINE TO BE DEEP AND DEEP ASIDE NOTED. STEEL STAMP TO BE ON END AN AREA MARK AT TOPS OF CENTERLINE AS SHOWN C-32 + 1/8 LONG.
  - 4 MAKE OTHER SIDE 250-112.
  - 5 MAKE FROM FORMED STABLE STEEL ON 3/8 OR 3/16 SIDE LONG AS USED BEAT TO TOOTH.
  - 6 MAKE FROM 3/8 STEEL STABLE STEEL ON 3/8 OR 3/16 SIDE LONG AS USED BEAT TO TOOTH.
  - 7 MAKE FROM 3/8 STEEL STABLE STEEL ON 3/8 OR 3/16 SIDE LONG AS USED BEAT TO TOOTH.
  - 8 MAKE FROM 3/8 STEEL STABLE STEEL ON 3/8 OR 3/16 SIDE LONG AS USED BEAT TO TOOTH.
  - 9 MAKE FROM 3/8 STEEL STABLE STEEL ON 3/8 OR 3/16 SIDE LONG AS USED BEAT TO TOOTH.
  - 10 MAKE FROM 3/8 STEEL STABLE STEEL ON 3/8 OR 3/16 SIDE LONG AS USED BEAT TO TOOTH.



MOZ-5E PIPE MOCKUP-44 SIP

PROJECT DATA

PROJECT NO.	
DATE	
DESIGNED BY	
CHECKED BY	
APPROVED BY	

REVISIONS

NO.	DATE	DESCRIPTION
1		ISSUED FOR FABRICATION
2		
3		
4		
5		

REVISIONS

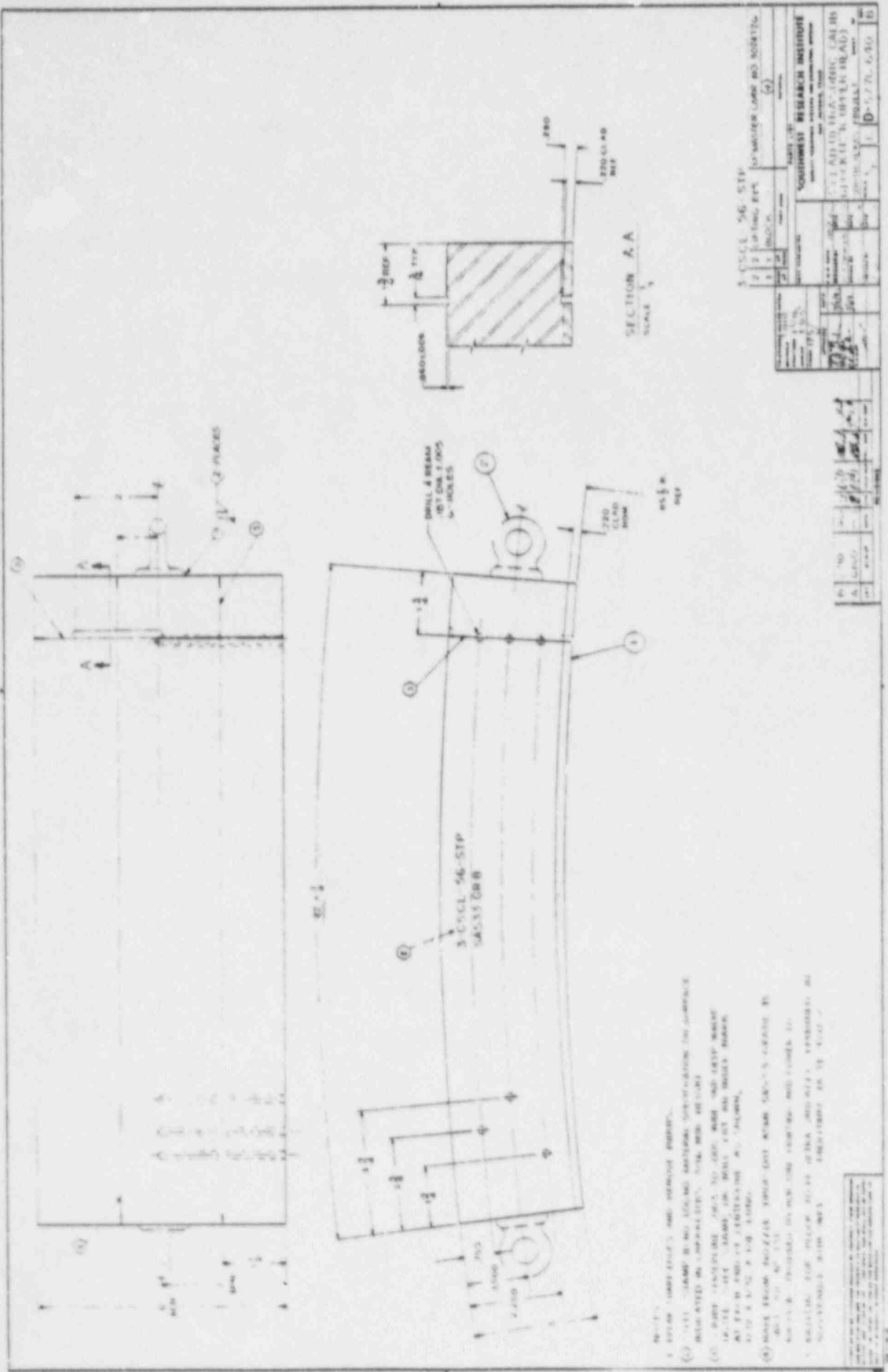
REVISIONS		
NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

REVISIONS

REVISIONS		
NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

SECTION A-A

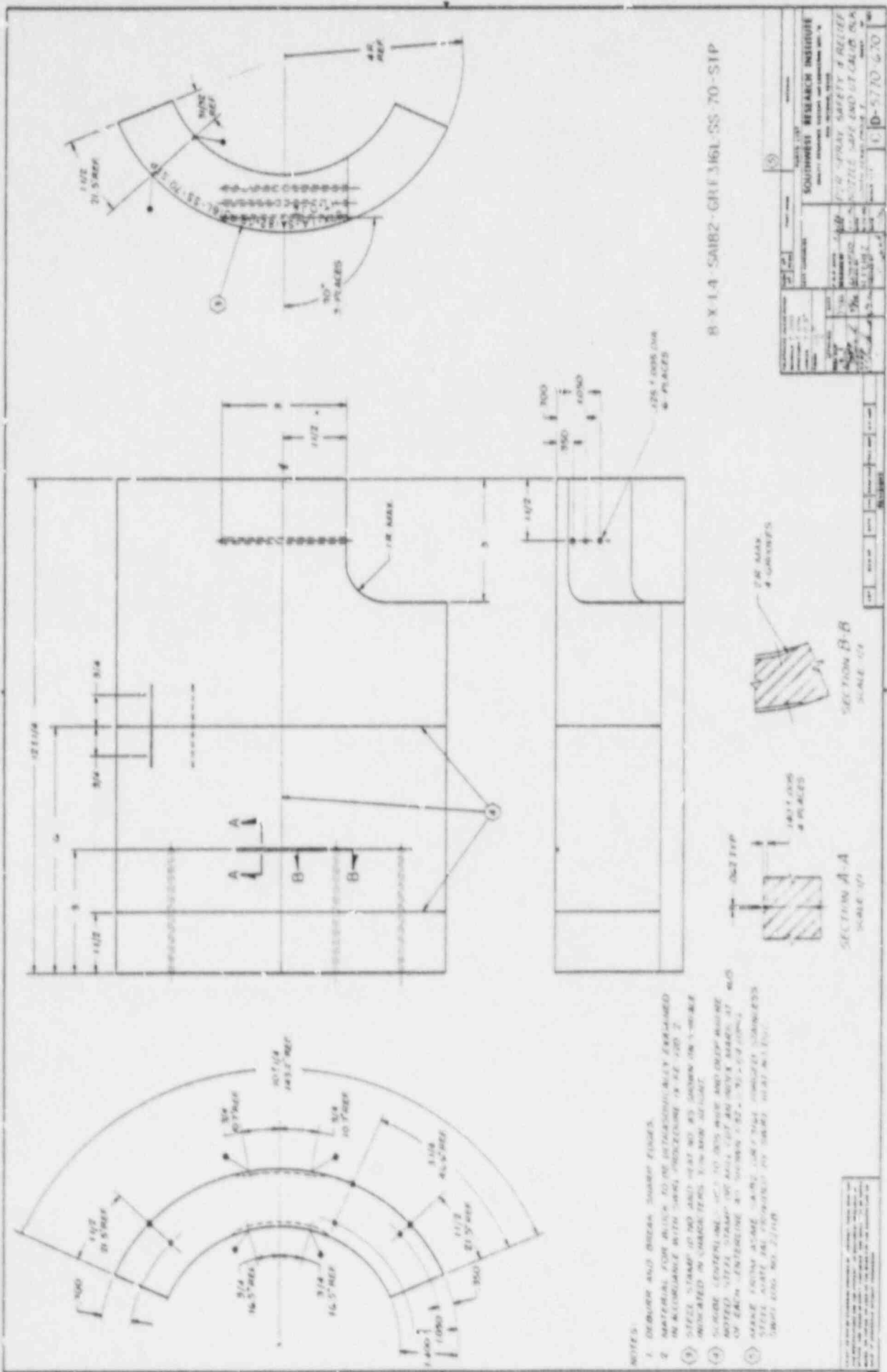
SCALE 1/2"



NOTES:  
 1. DRAWN FROM PHOTOGRAPH AND MEASURED PARTS.  
 2. THIS DRAWING IS TO BE USED AS A GUIDE IN THE CONSTRUCTION OF THE PARTS. THE PARTS SHOULD BE CHECKED AGAINST THE PHOTOGRAPH AND MEASURED PARTS.  
 3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.  
 4. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLES UNLESS OTHERWISE SPECIFIED.  
 5. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLES UNLESS OTHERWISE SPECIFIED.  
 6. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLES UNLESS OTHERWISE SPECIFIED.  
 7. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLES UNLESS OTHERWISE SPECIFIED.  
 8. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLES UNLESS OTHERWISE SPECIFIED.  
 9. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLES UNLESS OTHERWISE SPECIFIED.  
 10. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLES UNLESS OTHERWISE SPECIFIED.

3-CYCL-56-STEP		SWARTZBERG LABORATORY	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
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81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100





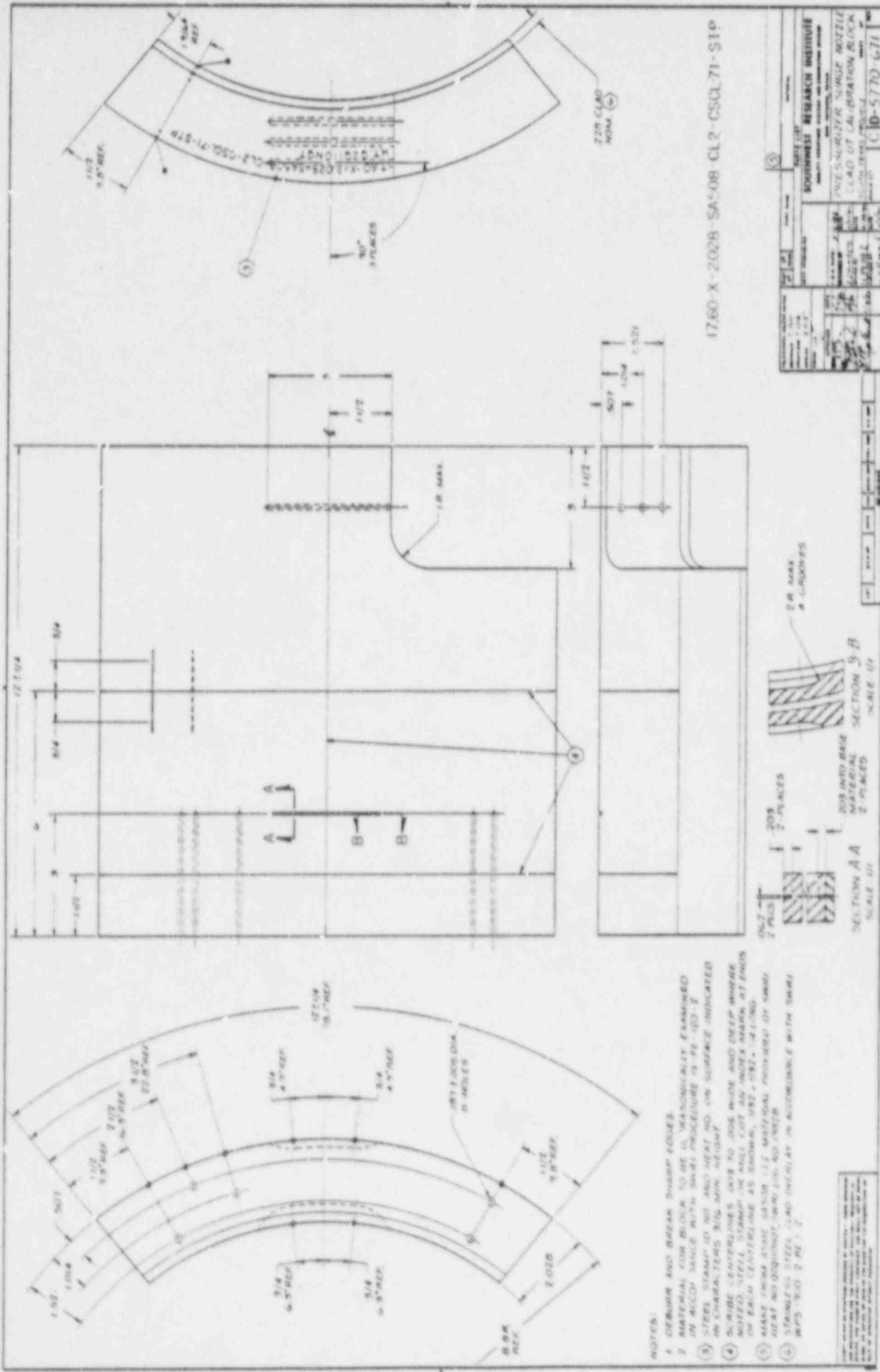
B-X-14-5AIB2-GRF346L-SS-70-S1P

- NOTES:
- 1. DEBURR AND BREAK SHARP EDGES.
  - 2. MATERIAL FOR WHICH TO BE INDIVIDUALLY EXAMINED IN ACCORDANCE WITH GUNN PROCEEDING IN RE 120 2.
  - 3. STEEL STRAP IS TO BE MADE OF 1/8" THICK 304 STAINLESS STEEL. STRAP IS TO BE MADE OF 1/8" THICK 304 STAINLESS STEEL. STRAP IS TO BE MADE OF 1/8" THICK 304 STAINLESS STEEL.
  - 4. SQUARE ENTIRE SURFACE TO BE POLISHED TO 150 GRIT AND OIL FREE.
  - 5. NOTED STEEL STRAP IS TO BE MADE OF 1/8" THICK 304 STAINLESS STEEL. STRAP IS TO BE MADE OF 1/8" THICK 304 STAINLESS STEEL.
  - 6. MAKE FINAL ASSEMBLY DRAWING AND FINAL DIMENSIONAL DRAWING WITH ALL DIMENSIONS AND TOLERANCES.



DRAWING NO. B-X-14-5AIB2-GRF346L-SS-70-S1P TITLE: B-X-14-5AIB2-GRF346L-SS-70-S1P DATE: 11-17-70 DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] SOUTHWEST RESEARCH INSTITUTE 3401 UNIVERSITY AVENUE TUCSON, ARIZONA 85724 11-17-70 670			
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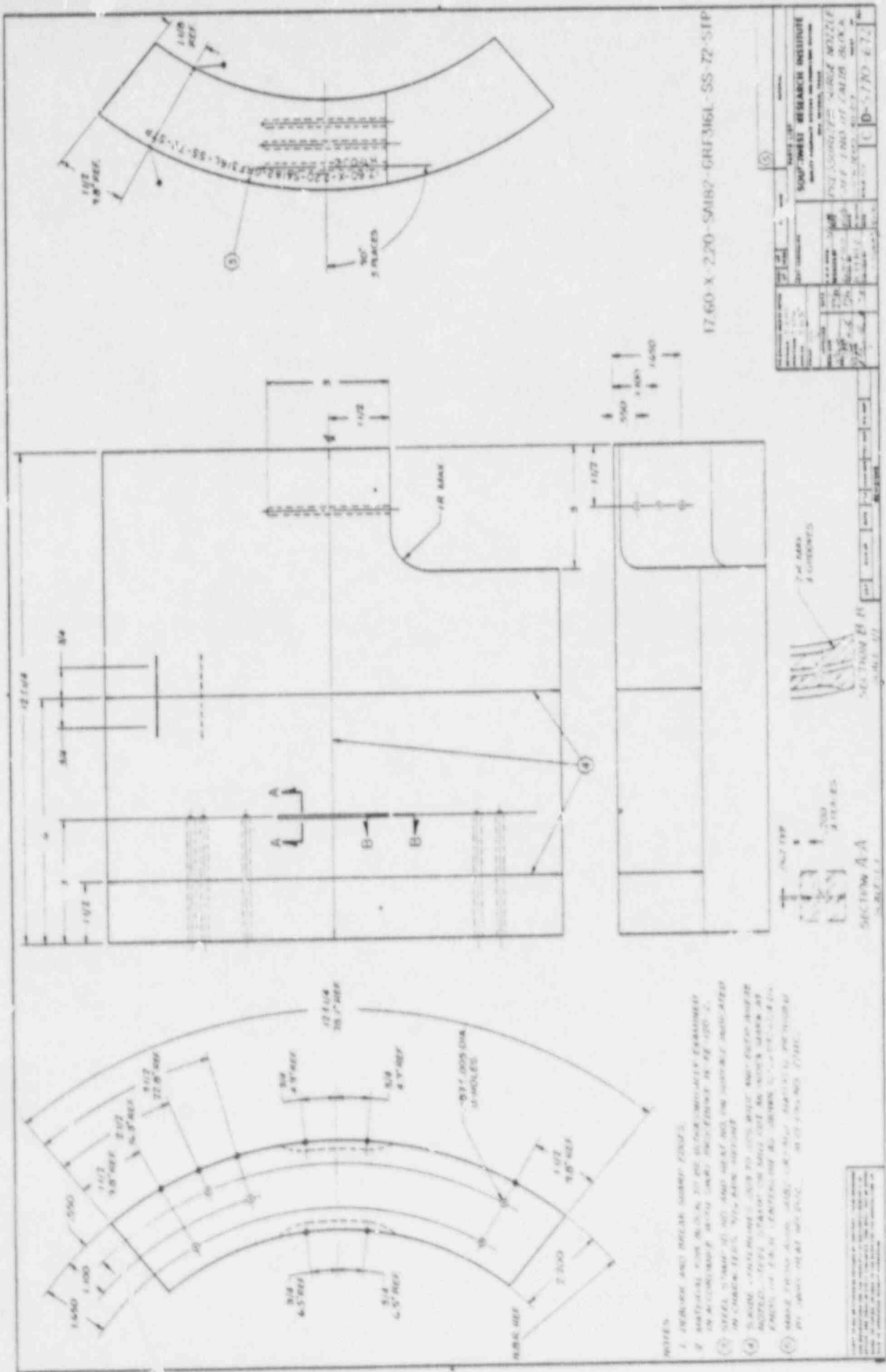


17.60 X-2008 SA-08 CL2-CSQL71-S1P

SOUTHWEST RESEARCH INSTITUTE	
PROJECT NO.	17.60 X-2008 SA-08 CL2-CSQL71-S1P
DRAWING NO.	C10-5770-671
DATE	
BY	
CHECKED	
APPROVED	
SCALE	

- NOTES:
1. DEBURR AND BREAK SHARP EDGES.
  2. MATERIAL FOR BLOCK TO BE 1/4" THICKNESS, FINISHED IN EACH FACE WITH SWRI PROCEDURE 19-19-00-2.
  3. STEEL STAMP TO BE AND HEAT NO. ON SURFACE INDICATED IN CHARACTERISTICS 30% MIN. HEIGHT.
  4. SURFACE CENTERLINES GO TO JOE WIDE AND DEEP WHERE SHOWN. STEEL STAMP TO BE HEAT NO. AND INDEX MARKS AT ENDS OF EACH CENTERLINE AS SHOWN, 987-2-081, -0100.
  5. MAKE SURE AT THE START OF MATERIAL PROVIDED BY SWRI, HEAT NO. 987-2-081, AND INDEX MARKS.
  6. STAINLESS STEEL, AND OVERLAY IN ACCORDANCE WITH SWRI WPS-700-2 REV. 7.

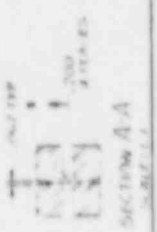


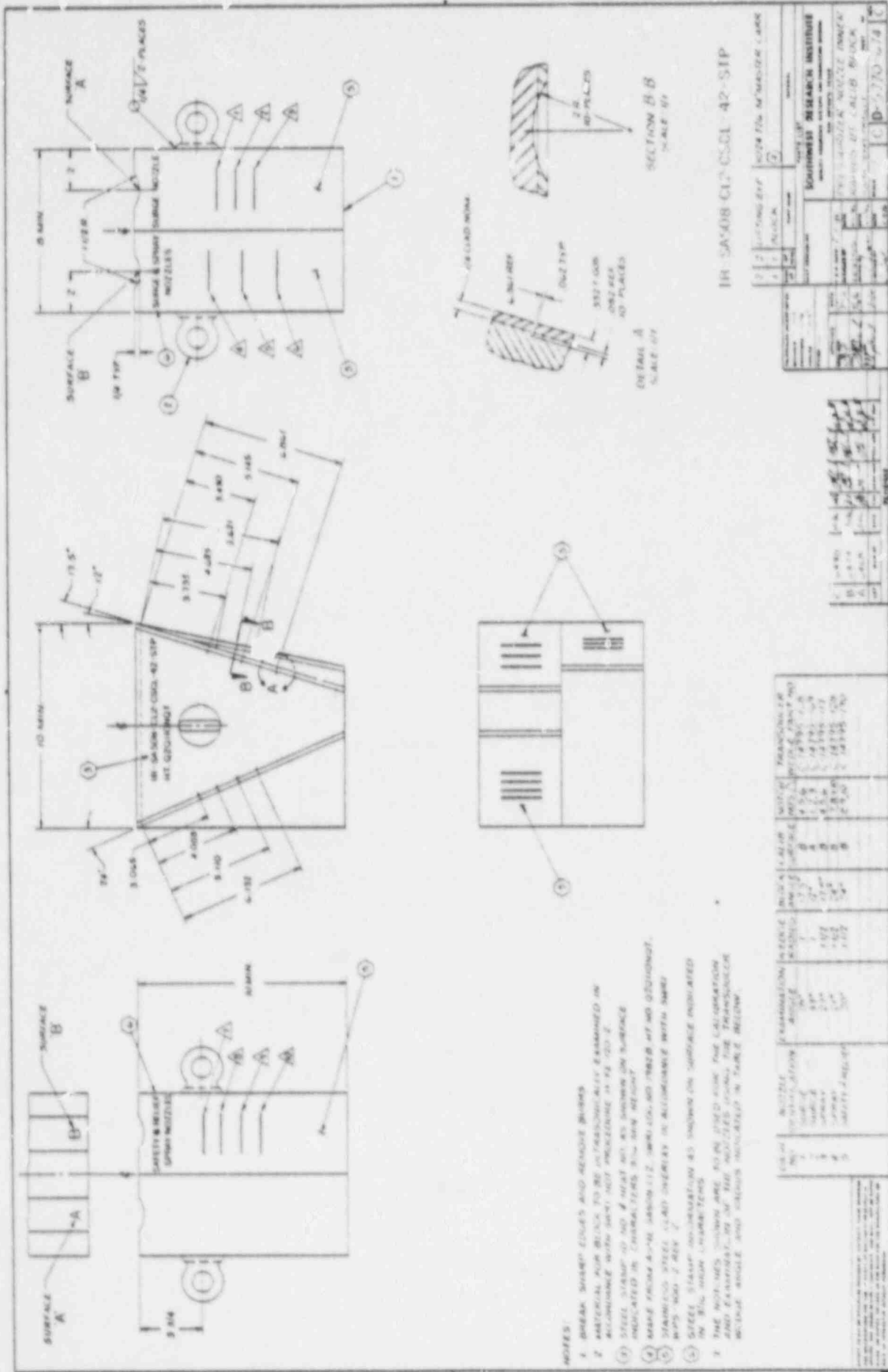


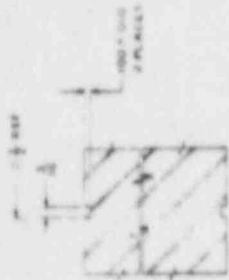
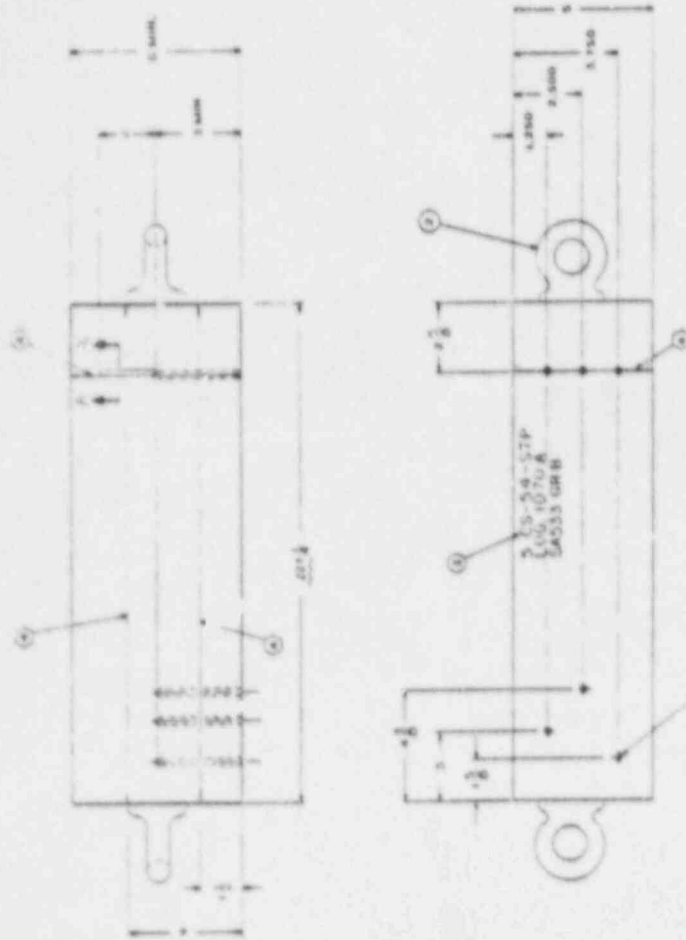
17.60 X 2.20 - SAIB7 - GRF36L - SS - 72 - 51P

<b>SONOTONET RESEARCH INSTITUTE</b> 1000 W. 10th St., Suite 100 Tulsa, Oklahoma 74106 (918) 438-7700	
<b>PROJECT NO.</b> SAIB7-GRF36L-SS-72-51P	<b>DATE</b> 10/1/72
<b>DESIGNED BY</b> J. H. HARRIS	<b>CHECKED BY</b> J. H. HARRIS
<b>SCALE</b> AS SHOWN	<b>PROJECT NO.</b> SAIB7-GRF36L-SS-72-51P

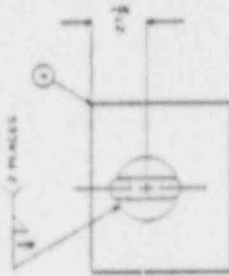
- NOTES:**
1. SURFACE AND BELL CURVED FINISH.
  2. MATERIAL SHALL BE A307 OR EQUIVALENTLY EXAMINED IN ACCORDANCE WITH UFGS SECTION 05 11 00.
  3. STEEL SHALL BE HOT ROLLED AND NOT BE SUBJECT TO STRESS RELIEF IN CASE OF 100% WELDING.
  4. ALL WELD JOINTS SHALL BE FULL PENETRATION BUT NOT EXCEED 1/8" BEHIND THE WELD LINE.
  5. WELD SHALL BE A307 OR EQUIVALENTLY EXAMINED IN ACCORDANCE WITH UFGS SECTION 05 11 00.







SECTION A-A  
SCALE 1/2



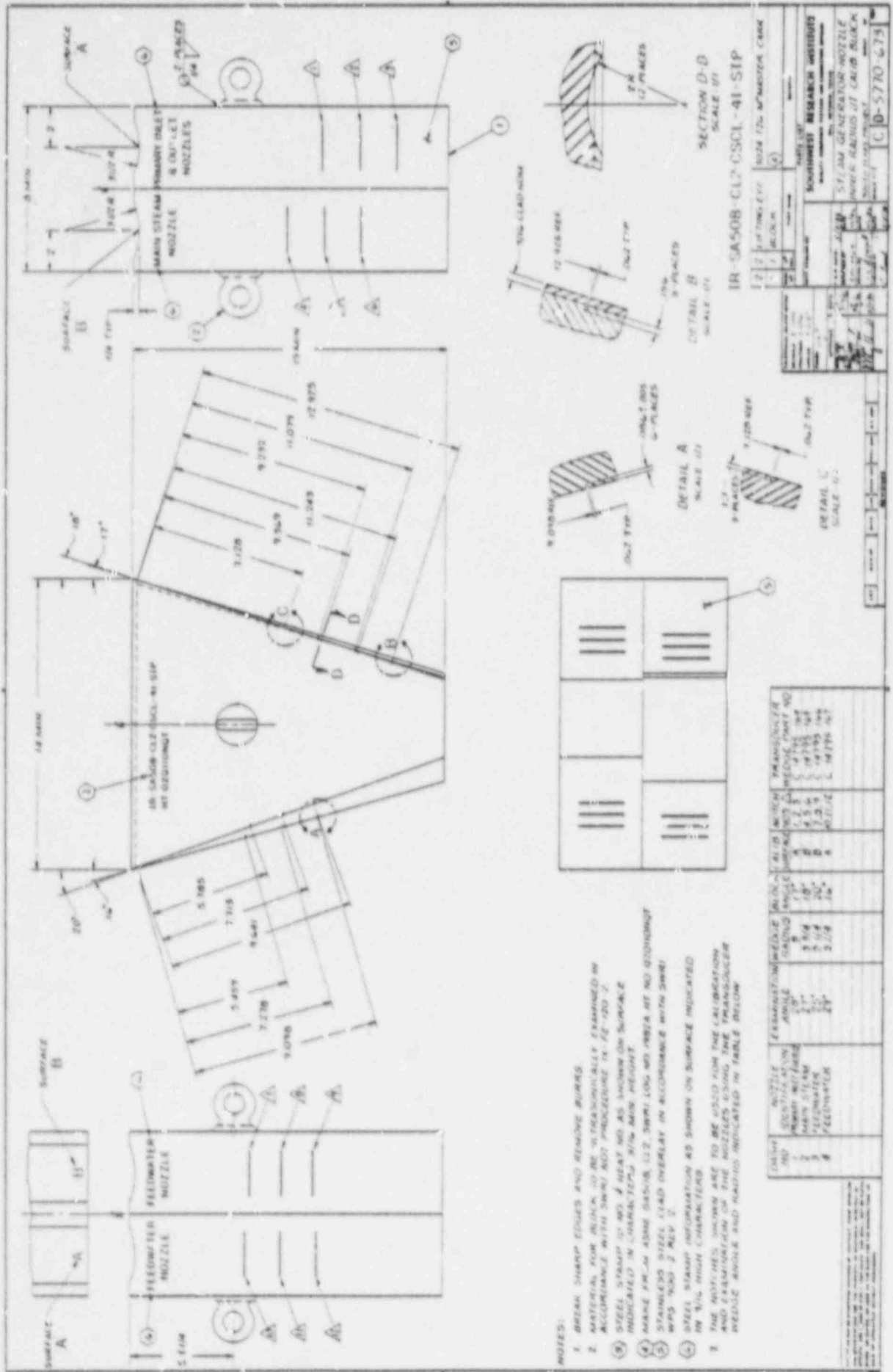
5-53-54-STEP

- 1. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 2. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 3. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 4. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 5. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 6. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 7. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 8. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 9. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 10. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 11. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 12. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 13. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 14. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES
- 15. 1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES

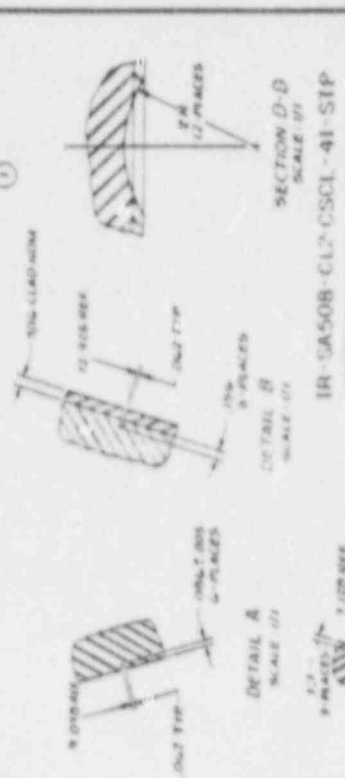
1	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(1)
2	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(2)
3	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(3)
4	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(4)
5	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(5)
6	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(6)
7	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(7)
8	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(8)
9	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(9)
10	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(10)
11	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(11)
12	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(12)
13	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(13)
14	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(14)
15	1/2 IN DIA DIA 1.000 x 3.000 x 3 PLACES	(15)

RESEARCH INSTITUTE  
5714 ARL ST  
LABORATORY BLDG  
ANN ARBOR, MICH 48106-1500





- NOTES:**
1. BRIMM SHARP EDGES AND REMOVE BURRS.
  2. MATERIAL FOR FLANGES TO BE ULTRASONICALLY EXAMINED IN ACCORDANCE WITH DIMS NOT PROCEDURE 16-10-100-2.
  3. STEEL STRAPS AT NO. 5 BEAT NO. 5 AS SHOWN ON SURFACE INDICATED IN CHARACTER'S SIGN MIN. HEIGHT.
  4. MAKE P.W.M. AS SHOWN DIMS, 1/2\"/>



SECTION D-D  
SCALE 1:1

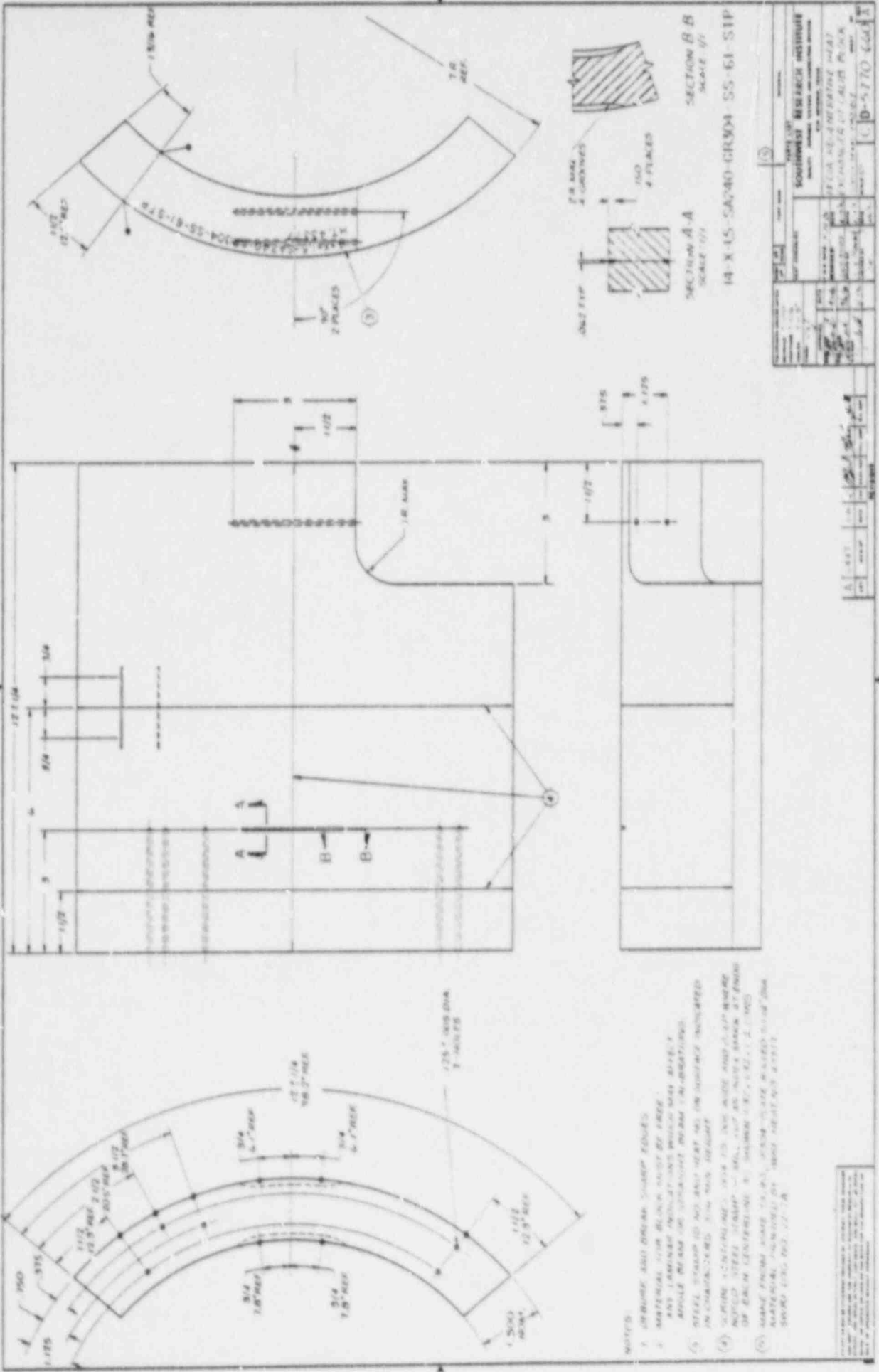
IR-5A50B-CL2-CSCL-41-STP

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
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100	100	100	100	100	100	100	100	100	100

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
1	1	1	1	1	1	1	1	1	1
100	100	100	100	100	100	100	100	100	100

NO.	NOZZLE IDENTIFICATION	EXAMINATION ANGLES	WEDGE	WEDGE ANGLE	WEDGES PER SURFACE	WEDGES PER NOZZLE	WEDGES PER SURFACE	WEDGES PER NOZZLE	WEDGES PER SURFACE	WEDGES PER NOZZLE	WEDGES PER SURFACE	WEDGES PER NOZZLE
1	1	1	1	1	1	1	1	1	1	1	1	1
100	100	100	100	100	100	100	100	100	100	100	100	100

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
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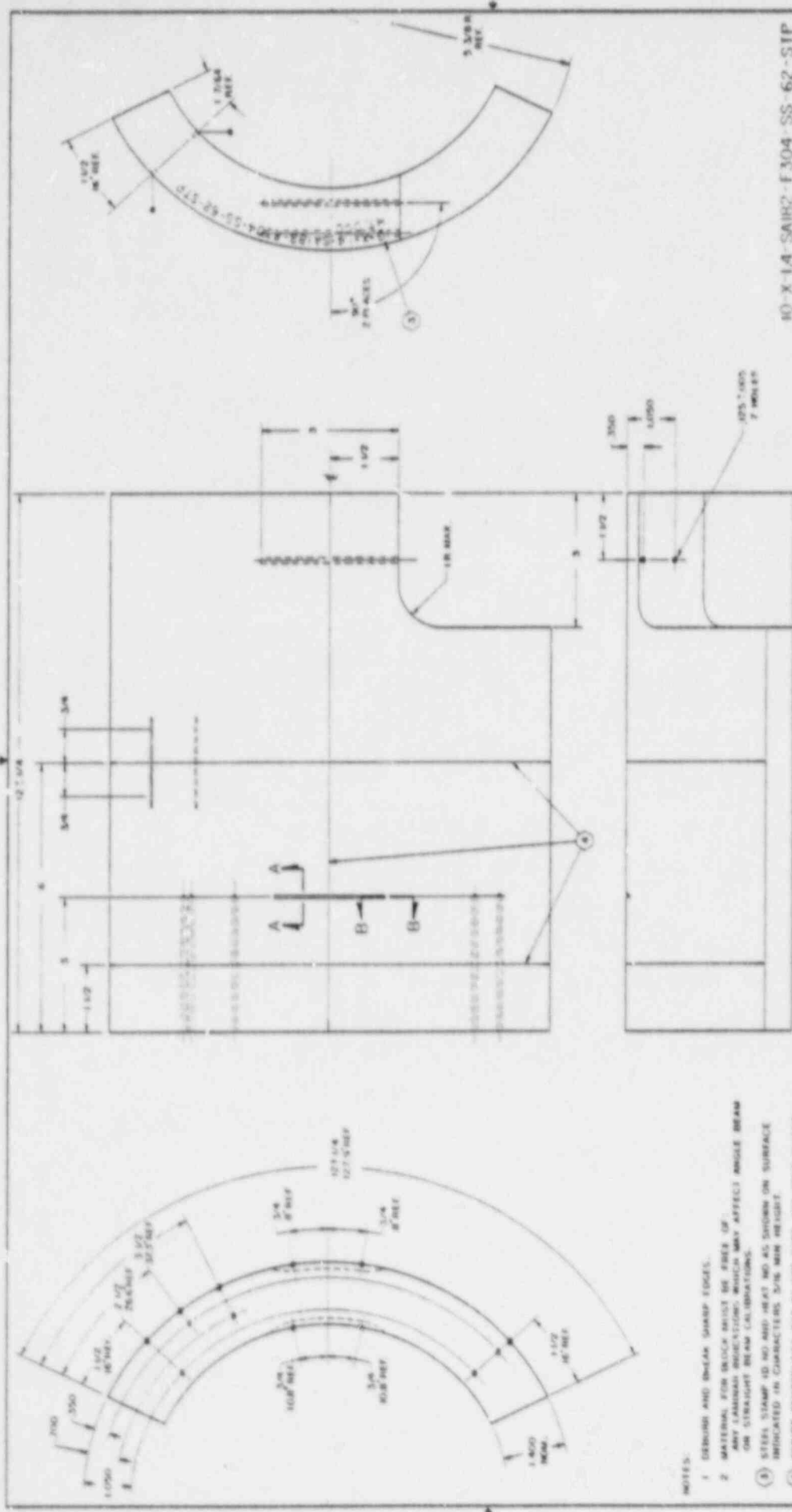
- NOTES:
1. SHARPEN AND FINISH SHARP EDGES.
  2. MATERIAL FOR ALL DIMENSIONS PER AREA.
  3. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
  4. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
  5. STEEL STAMPS TO BE USED TO MARK ALL DIMENSIONS INDICATED IN DIMENSIONS FROM THE CENTER.
  6. MARK FROM AREA TO BE USED TO MARK ALL DIMENSIONS INDICATED IN DIMENSIONS FROM THE CENTER.

SECTION B-B  
SCALE 1/4"

SECTION A-A  
SCALE 1/4"

14-X-45-5A240-GR904-55-61-STP

DATE	BY	CHKD	APP'D
SOUTHWEST RESEARCH INSTITUTE			
1600 AVENUE OF THE SCIENCES DENVER, COLORADO 80202			
PROJECT: 14-X-45-5A240-GR904-55-61-STP			
DRAWING NO.: 14-X-45-5A240-GR904-55-61-STP			
SCALE: 1/4"			
SHEET NO.: 1 OF 1			
C 10-5170-666			

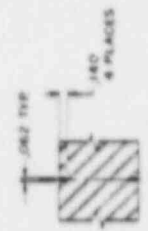


NO X-1A-SAIR2-F304-SS-62-STP

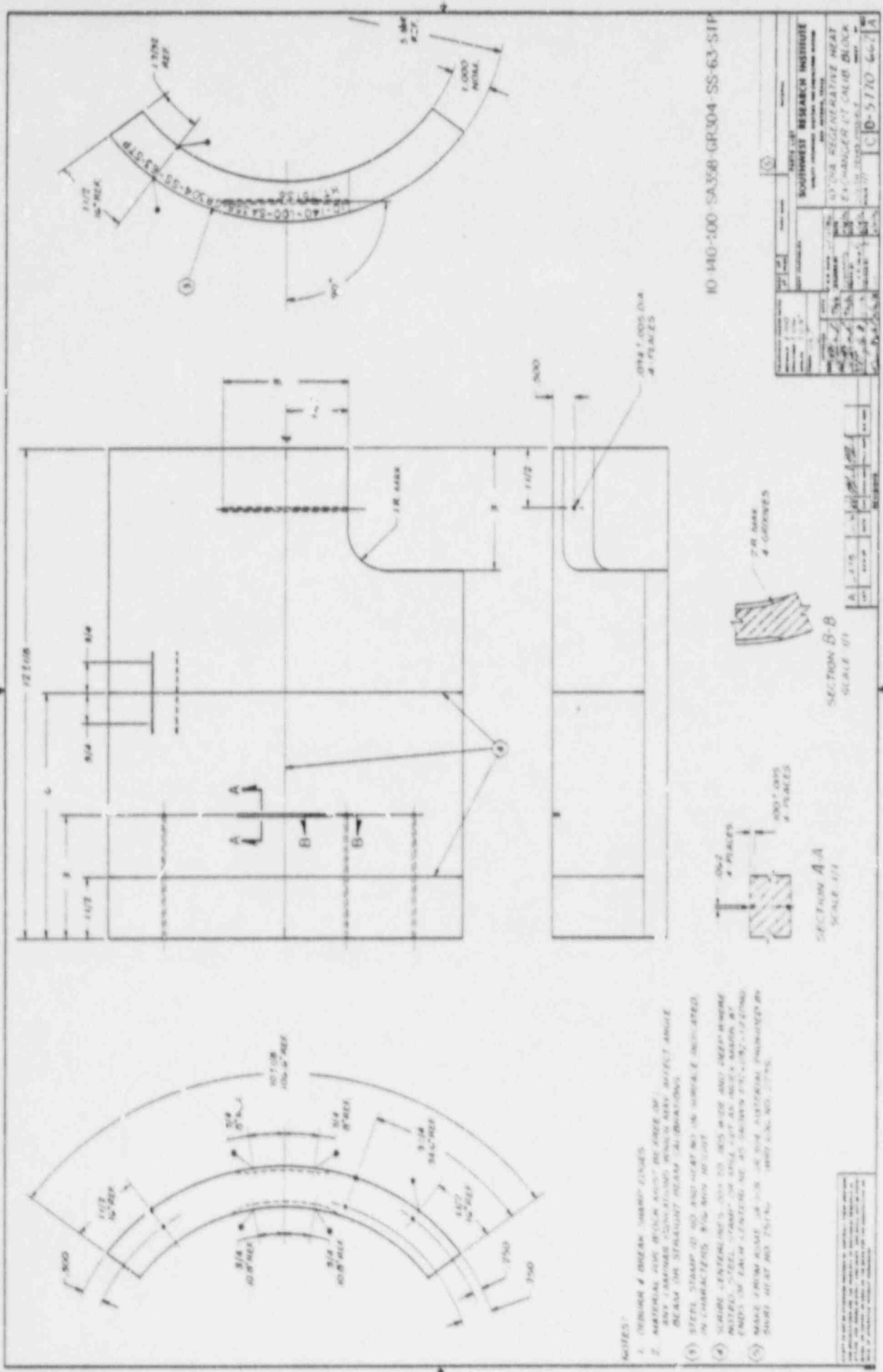
- NOTES:
- 1 DEDURUM AND BREAK SHARP EDGES.
  - 2 MATERIAL FOR BLOCK MUST BE FREE OF ANY LAMINAR DISCONTINUITIES WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.
  - 3 STEEL STAMP ID NO AND HEAT NO AS SHOWN ON SURFACE INDICATED IN CHARACTERS 5/16 MIN HEIGHT.
  - 4 SCRIBE CENTERLINES DIMS TO 0.005 WIDE AND DEEP WHILE NOTED STEEL STAMP OR MILL CUT AN INCH MARK AT ENDS OF EACH CENTERLINE AS SHOWN 1/32 ± 1/32 ± 1/4 LONG.
  - 5 MAKE FACED FROM FORGEC STAINLESS STEEL, GRADE SAIR2 F304 MATERIAL PROVIDED BY SPMI, HT NO D.V.C. (SMI) LOG NO 2211A.

DATE:	APR 1962
DRWING NO.:	SAIR2-F304-SS-62-STP
REV.:	1
BY:	[Signature]
CHECKED BY:	[Signature]
APPROVED BY:	[Signature]
SCALE:	AS SHOWN
MATERIAL:	SAIR2 F304-SS-62
QUANTITY:	1
UNIT:	INCHES

DATE:	APR 1962
DRWING NO.:	SAIR2-F304-SS-62-STP
REV.:	1
BY:	[Signature]
CHECKED BY:	[Signature]
APPROVED BY:	[Signature]
SCALE:	AS SHOWN
MATERIAL:	SAIR2 F304-SS-62
QUANTITY:	1
UNIT:	INCHES







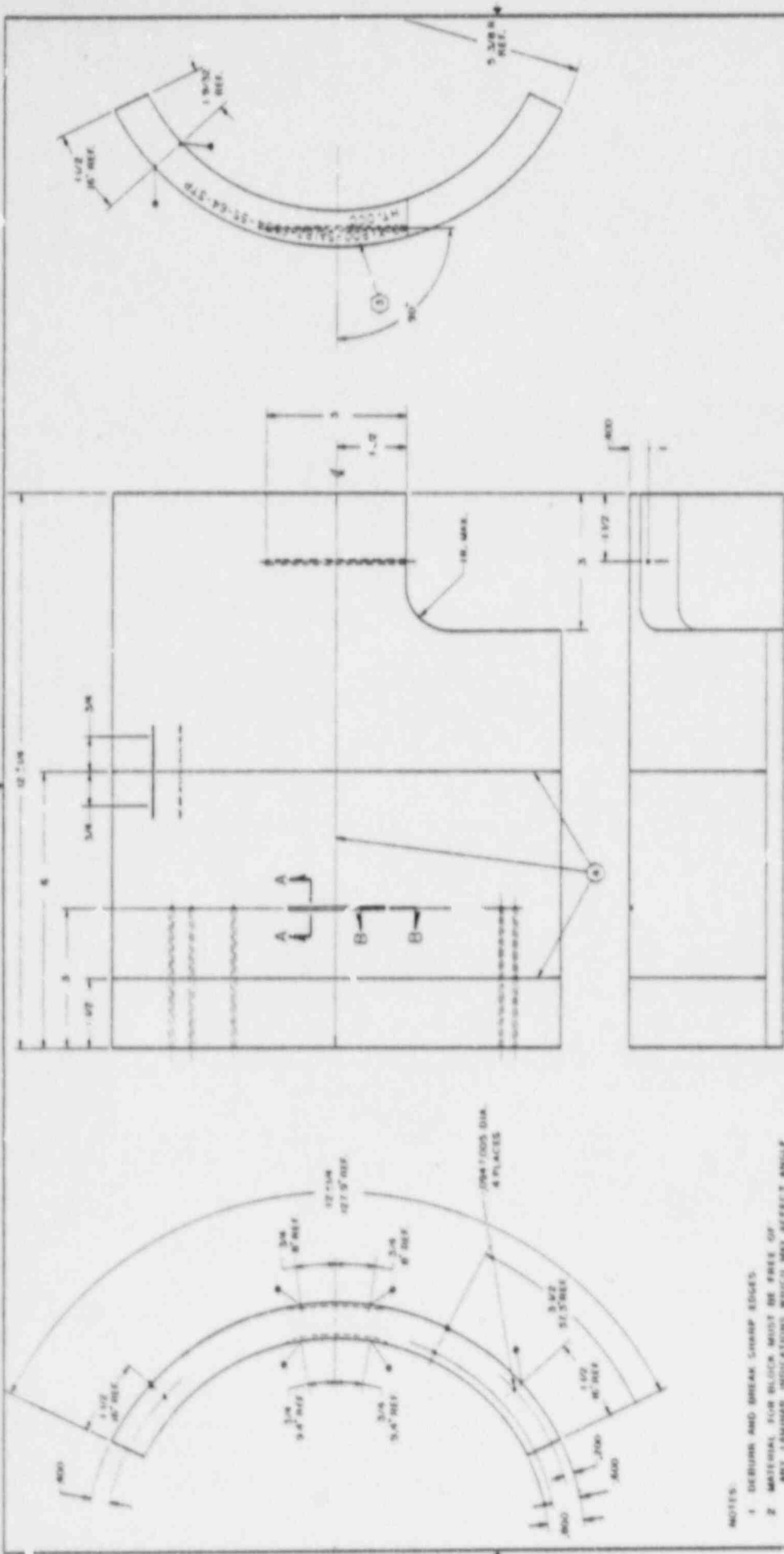
10-HO-100 SA358-GR304-SS-63-STP

SOUTHWEST RESEARCH INSTITUTE 3701 UNIVERSITY AVENUE TULSA, OKLAHOMA 74114	
PROJECT NO. 10-HO-100 DRAWING NO. GR304-SS-63-STP	SHEET NO. 1 OF 1
DATE: 10/1/66	SCALE: AS SHOWN
DESIGNED BY: [Signature] CHECKED BY: [Signature]	APPROVED BY: [Signature]

- NOTES:
1. CURVES & BEAM HARP LINES MATERIAL AND BEAM AXIS BY AREA AND COMPARISON CURVATURES WITH AREA EFFECT ANGLE BEAM ON STRAIGHT BEAM DISTRIBUTION.
  2. STEEL STAMP ID 60 AND HEAT NO. ON SURFACE INDICATED.
  3. CURVE CENTERLINE, 300.000 RADIUS AND DEEP-WHERE INDICATED "STEEL STAMP" OR "HEAT NO." AND "BEAM NO." ENDS IN EACH CENTERLINE AS SHOWN FIG. 10-11-66.
  4. MADE FROM ALUM. 1/8" THICK. ALL DIMENSIONS INDICATED IN THIS DRAWING.

SECTION B-B  
SCALE 1/1

SECTION A-A  
SCALE 1/1



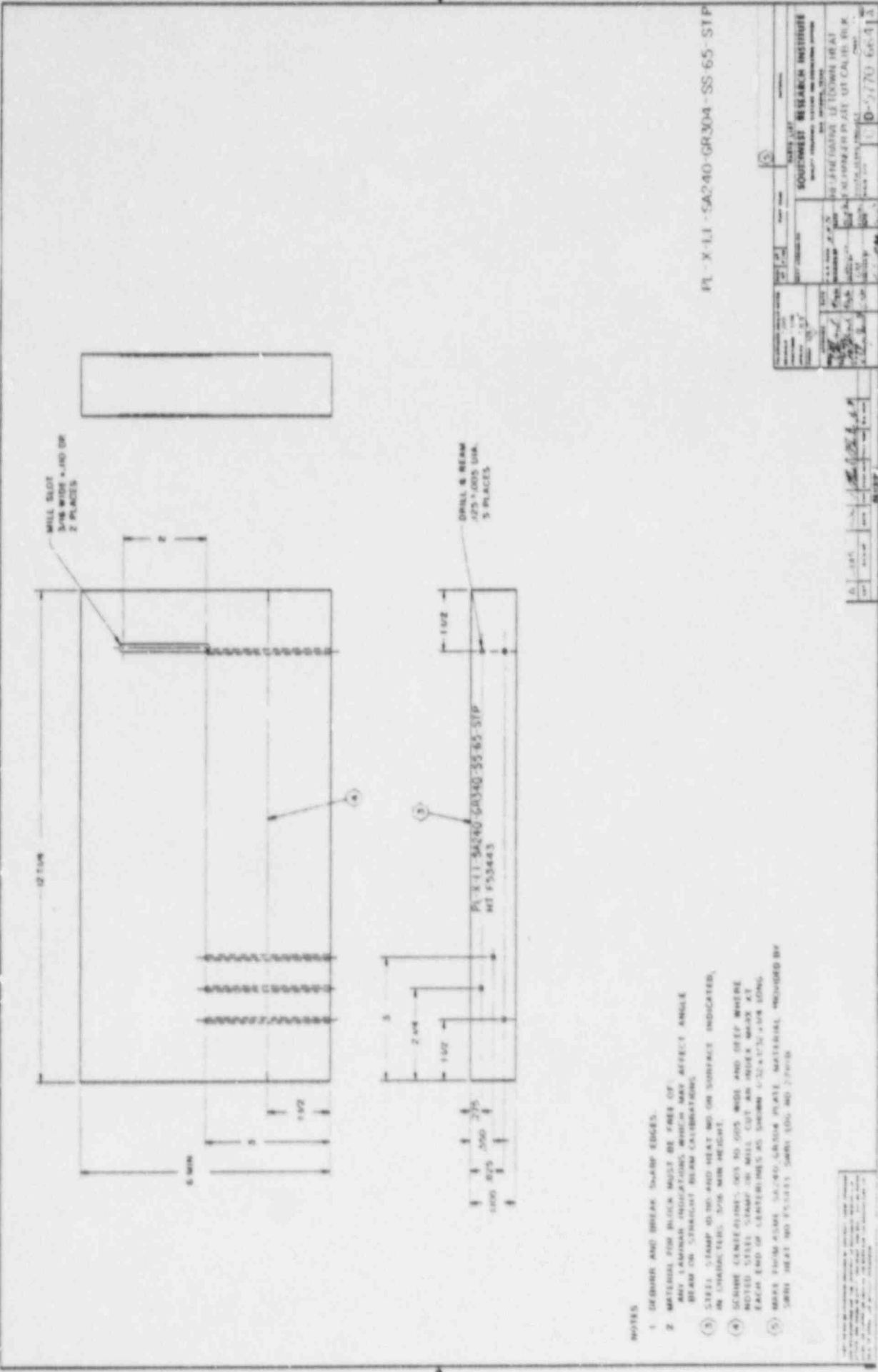
10-A-800-SA182-F304-SS-64-STP

REV	DATE	BY	CHK	APP
1	10/1/64	J.P.	J.P.	J.P.
2	10/1/64	J.P.	J.P.	J.P.
3	10/1/64	J.P.	J.P.	J.P.

SOUTHWEST RESEARCH INSTITUTE  
 10110 BILBA REGenerative HEAT  
 EXCHANGER AT CARIBBEAN  
 C D-5770-663 A



- NOTES:
1. DEDURIN AND BREAK SHARP EDGES.
  2. MATERIAL FOR BOLTS MUST BE FREE OF ANY LAMINAR DEFLECTIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.
  3. STEEL STAMP IS TO BE HEAT TREATED AS SHOWN ON SURFACE INDICATED IN DIMENSIONS 3/16 MIN HEIGHT.
  4. SCRIBE CENTERLINES TO 30.000 WIDE AND DEEP WHERE NOTED STEEL STAMP OR MILL CUT AND ORDER MARK AT ENDS OF EACH CENTERLINE AS SHOWN 1/32 ± 1/32 ± 1/32 LONG.
  5. MAKE FROM TUBULAR STAINLESS STEEL, ASSME SA182-F304 MATERIAL PROVIDED BY SMRI HEAT NO D.L.C. SMRI LOG NO 2711A.



P-X-11-5A240-GR304-SS-65-STP

**NOTES**

1. DEBURR AND BREAK SHARP EDGES.
2. MATERIAL FOR BLOCK MUST BE FREE OF ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.
3. STEEL STAMP ID NO. AND HEAT NO. ON SURFACE INDICATED, IN UNPAINTED, 2/16 MIN HEIGHT.
4. SCRAPE GENTLY; DO NOT GRIND, BRUSH AND DEEP WASH. NOTED STEEL STAMP IN MILL CUT AND MARK AT EACH END OF CENTERLINE AS SHOWN 4/22/473 FOR IDING.
5. BRASS FROM ALUM. SCAFF. GUNDRUM PLATE MATERIAL PROVIDED BY SWIN. HEAT NO. F51153, SAMS 1056, RD 27908.

REVISIONS				SHEET NO. 1			
NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY
1				1	10-27-70	605-13	

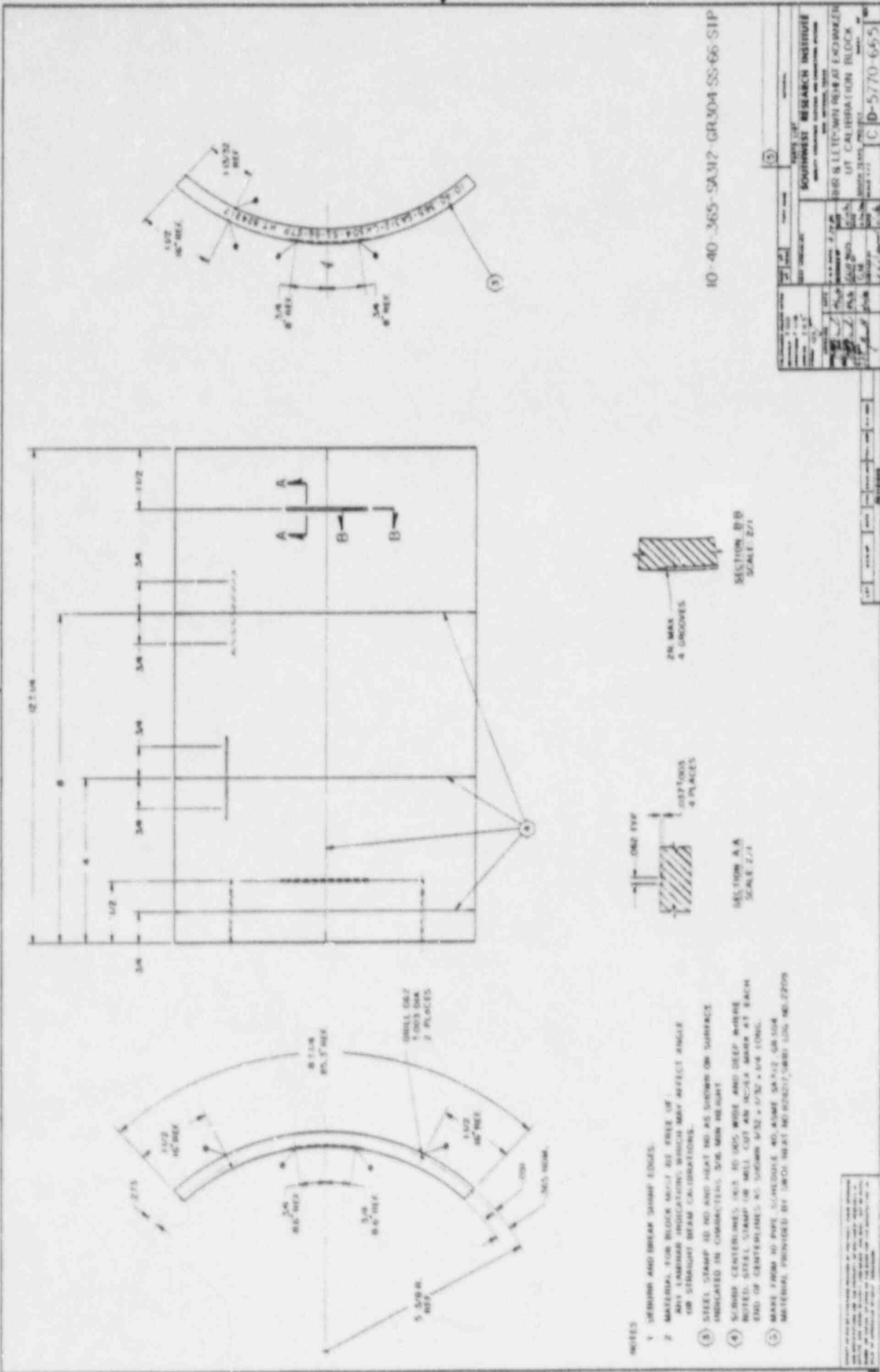
  

APPROVED	DESIGNED	DRAWN
DATE	DATE	DATE

**SOUTHWEST RESEARCH INSTITUTE**

1616 EAST GARDNER STREET, DENVER, COLORADO 80202

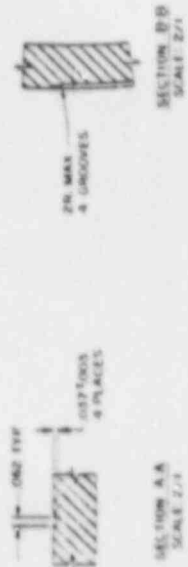
U.S. GOVERNMENT PRINTING OFFICE: 1967 O-317703

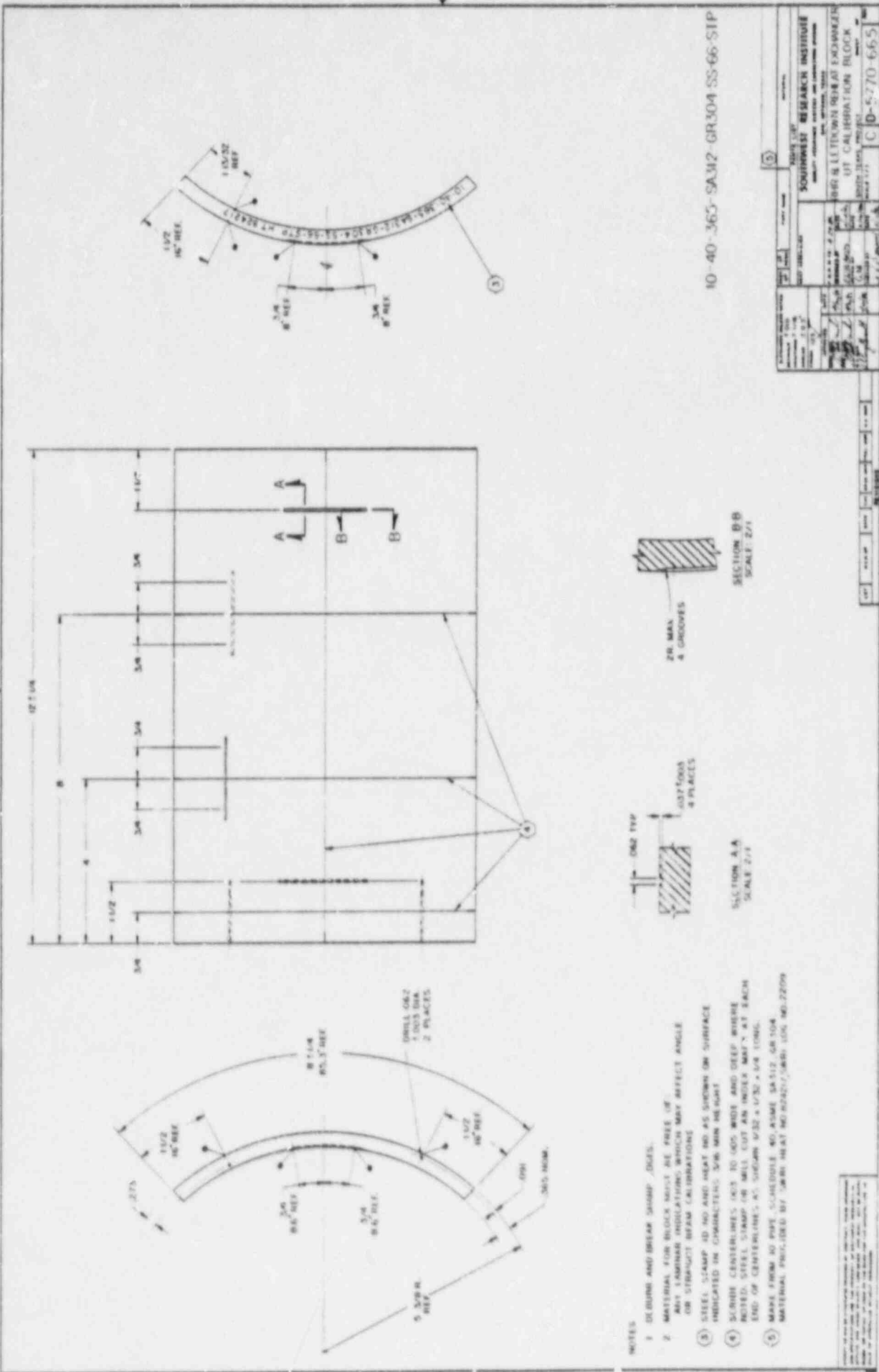


10-40-365-5A37-GR304 SS-66 S1P

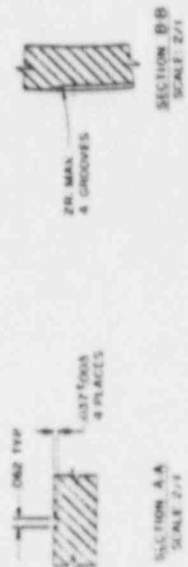
SOUTHWEST RESEARCH INSTITUTE 6001 WEST WILLOW, TULSA, OKLA. 74107 TEL. 581-2200 C D-5770-6-55	
PROJECT NO. 10-40-365-5A37 DRAWING NO. GR304 SS-66 S1P SHEET NO. 1 OF 1	TITLE CALIBRATION BLOCK

- NOTES
1. DIMENSIONS AND BREAK SHARP EDGES.
  2. MATERIAL FOR BLOCK MUST BE FREE OF ANY SURFACE INDICATIONS WHICH MAY AFFECT ANGLE OR STRAIGHT BEAM CALIBRATIONS.
  3. STEEL STAMP IS TO BE HEAT TREATED AS SHOWN ON SURFACE INDICATED IN CHARACTERISTICS 3/16 MIN HEIGHT.
  4. SURFACE CENTERLINES MUST BE 0.005 WIDE AND DEEP WHERE NOTED. STEEL STAMP OR MILL CUT AN "C" OR "A" MARK AT EACH END OF CENTERLINES AS SHOWN 1/32 ± 1/32 × 1/4 LONG.
  5. MARK FROM TO FINE, UNDESIRABLE, NO MARK 1/32 ± 1/32 OR LONGER MATERIAL PROVIDED BY JACO. MUST BE REMOVED BY USE OF 40-22709



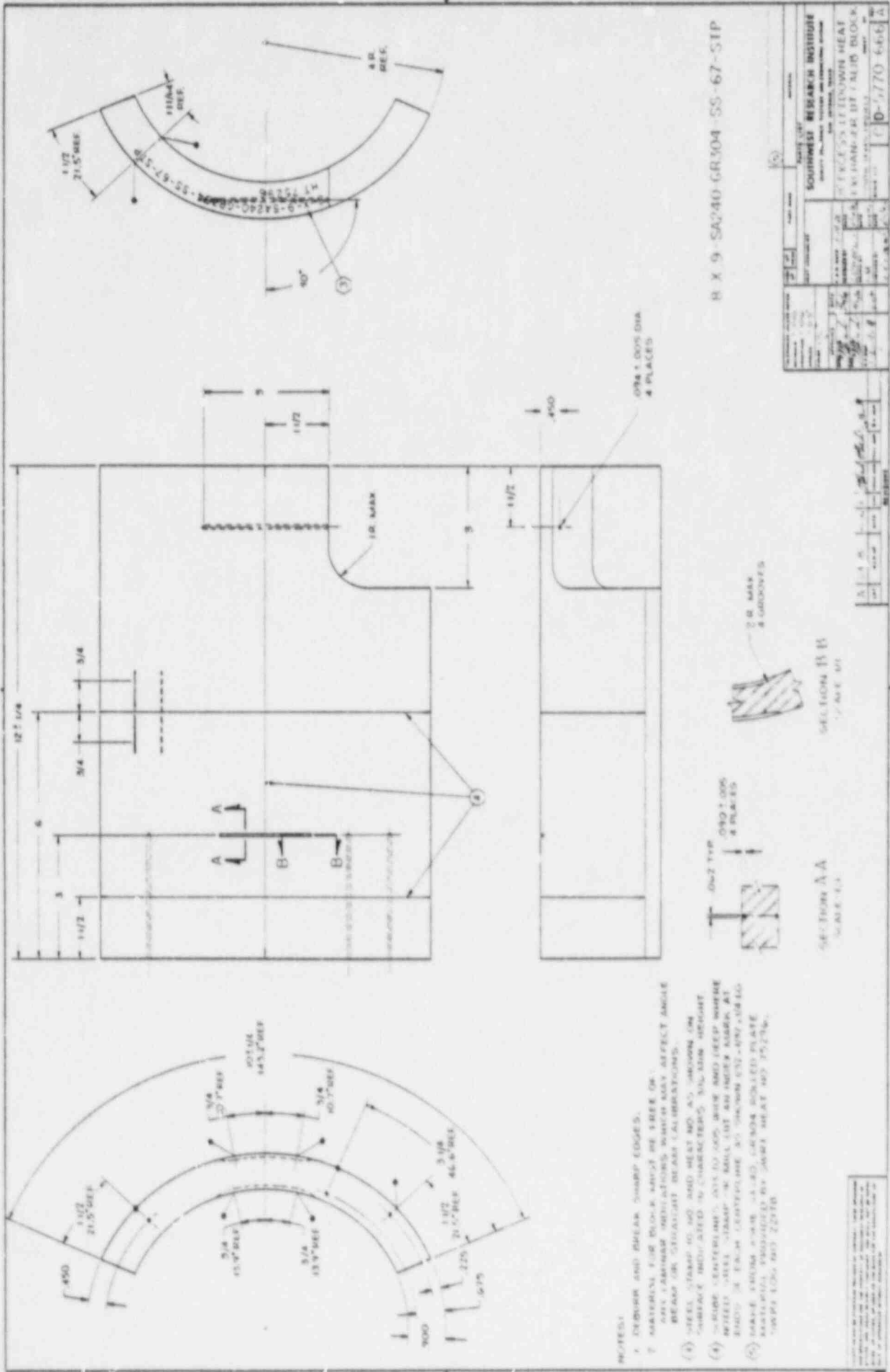


NO-40-365-SAM2-GR304-SS-66-SIP



- NOTES
- 1 DESIGN AND BREAK STAMP / DIES.
  - 2 MATERIAL FOR BLOCK MUST BE FREE OF ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE OR STRAIGHT BEAM CALIBRATIONS.
  - 3 STEEL STAMP IS TO BE HEAT TREATED AS SHOWN ON SURFACE INDICATED IN CONNECTIONS 3/8\"/>

SOUTHWEST RESEARCH INSTITUTE 3805 UNIVERSITY BLVD TULSA, OKLAHOMA 74114 TEL: 581-5500 C 10-5770-6655	
PROJECT NO. 10-40-365-SAM2-GR304-SS-66-SIP DRAWING NO. 10-40-365-SAM2-GR304-SS-66-SIP-01 DATE 10/10/66	SHEET NO. 1 OF 1 TOTAL SHEETS 1



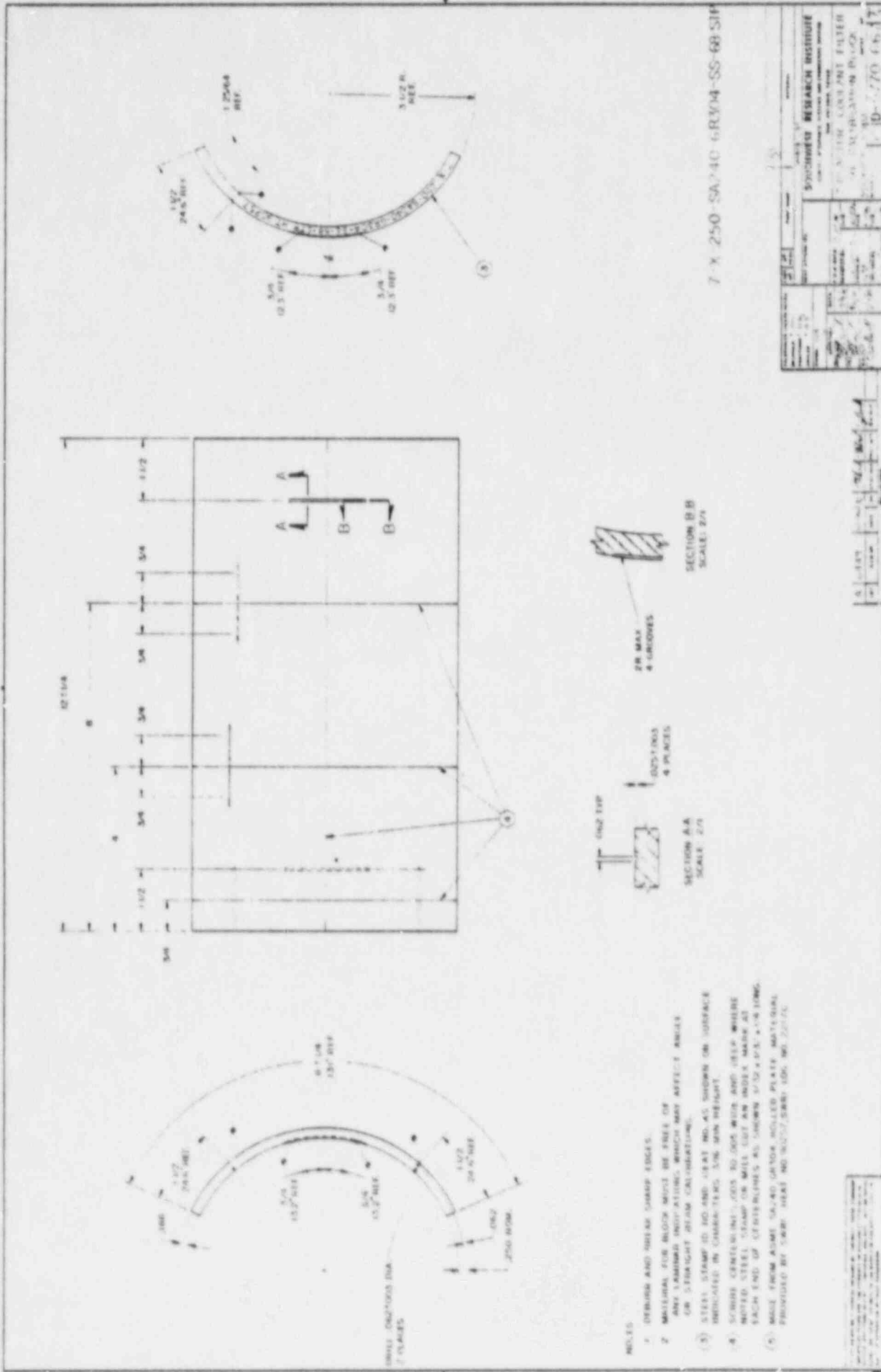
B X 9-SA240-GR304-SS-67-5TP

SOUTHWEST RESEARCH INSTITUTE	
PROJECT NO.	SA240-GR304-SS-67-5TP
DATE	11/17/70
DESIGNED BY	[Signature]
CHECKED BY	[Signature]
APPROVED BY	[Signature]
SCALE	AS SHOWN

- NOTES:
1. ENDS AND BREAK SHARP EDGES.
  2. MATERIAL FOR THIS PART IS 304 SS. ALL DIMENSIONS INDICATED UNLESS OTHERWISE SPECIFIED.
  3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
  4. HOLE LOCATIONS ARE AS SHOWN ON DRAWING.
  5. HOLE DIA. IS .090 ± .005.
  6. HOLE DEPTH IS .125 ± .005.
  7. HOLE TOLERANCE IS .001 ± .0005.
  8. HOLE POSITION TOLERANCE IS .005 ± .002.
  9. HOLE SURFACE FINISH IS 32 RMS.
  10. HOLE END FINISH IS 63 RMS.
  11. HOLE DRILLING IS TO BE DONE BY HAND.
  12. HOLE DRILLING IS TO BE DONE WITH A BRASS DRILL BIT.
  13. HOLE DRILLING IS TO BE DONE WITH A BRASS DRILL BIT.
  14. HOLE DRILLING IS TO BE DONE WITH A BRASS DRILL BIT.
  15. HOLE DRILLING IS TO BE DONE WITH A BRASS DRILL BIT.
  16. HOLE DRILLING IS TO BE DONE WITH A BRASS DRILL BIT.
  17. HOLE DRILLING IS TO BE DONE WITH A BRASS DRILL BIT.
  18. HOLE DRILLING IS TO BE DONE WITH A BRASS DRILL BIT.
  19. HOLE DRILLING IS TO BE DONE WITH A BRASS DRILL BIT.
  20. HOLE DRILLING IS TO BE DONE WITH A BRASS DRILL BIT.

SECTION A-A  
SCALE 1:1

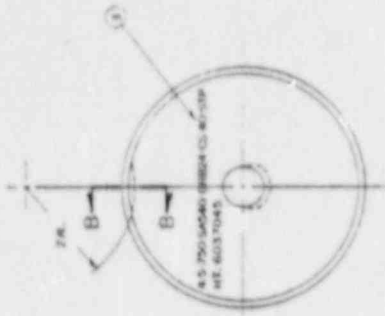
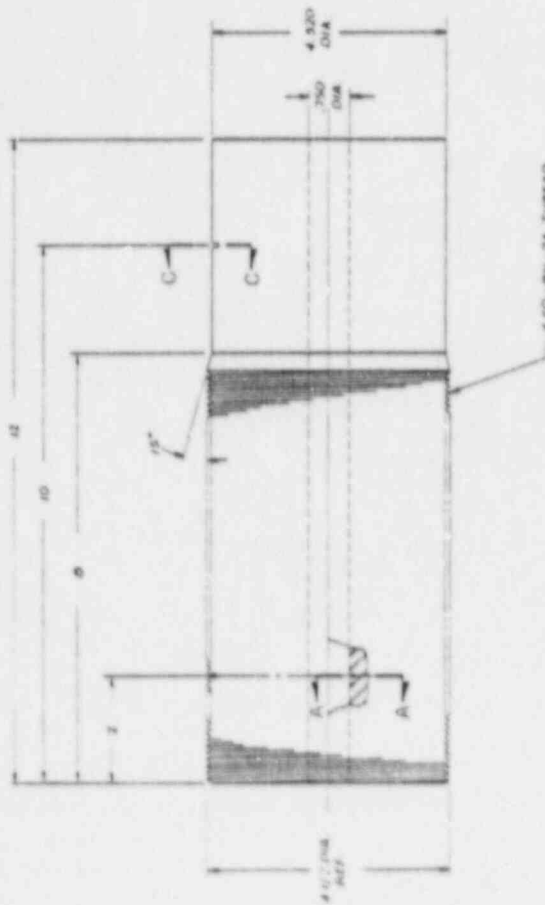
SECTION B-B  
SCALE 1:1



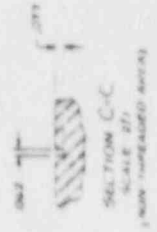
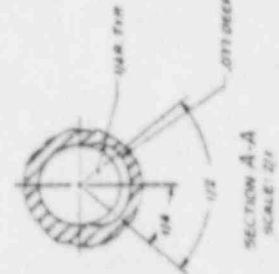
7 X 250 SA 140 6 R304-SS-68 SIP

SYNCHROME RESEARCH INSTITUTE	
100 W. 12th St., Suite 1000	MINNEAPOLIS, MN 55402
SYNCHROME RESEARCH INSTITUTE	
100 W. 12th St., Suite 1000	
MINNEAPOLIS, MN 55402	
SYNCHROME RESEARCH INSTITUTE	
100 W. 12th St., Suite 1000	
MINNEAPOLIS, MN 55402	
SYNCHROME RESEARCH INSTITUTE	
100 W. 12th St., Suite 1000	
MINNEAPOLIS, MN 55402	

- NOTES:
1. STRAIN AND BEAM CLAMP EDGES.
  2. MATERIAL FOR BLOCK MUST BE FREE OF ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE OR STRAIGHT BEAM CALIBRATION.
  3. STEEL STAMP IS TO BE HEAT TREATED TO SHOW ON SURFACE INDICATED IN DRAWING. SEE MIN WEIGHT.
  4. SCREW CENTERING TIPS TO SHOW WITH AND BEP WHILE NOTED STEEL STAMP ON MILL CUT AN INDEX MARK AT EACH END OF CENTERLINE AS SHOWN 3/4" x 1/2" x 1/8" LONG.
  5. MAKE FROM ASME SA 140 OR SA 140 ROLLED PLATE MATERIAL PROVIDED BY SUPPLIER. HEAT TREAT NO. 90077-5888-1005 NO. 22074.



4.00 DN 2A THREADED  
STEEL WEDGE ELECTRIC COMP  
(DWG C-1742A-37)



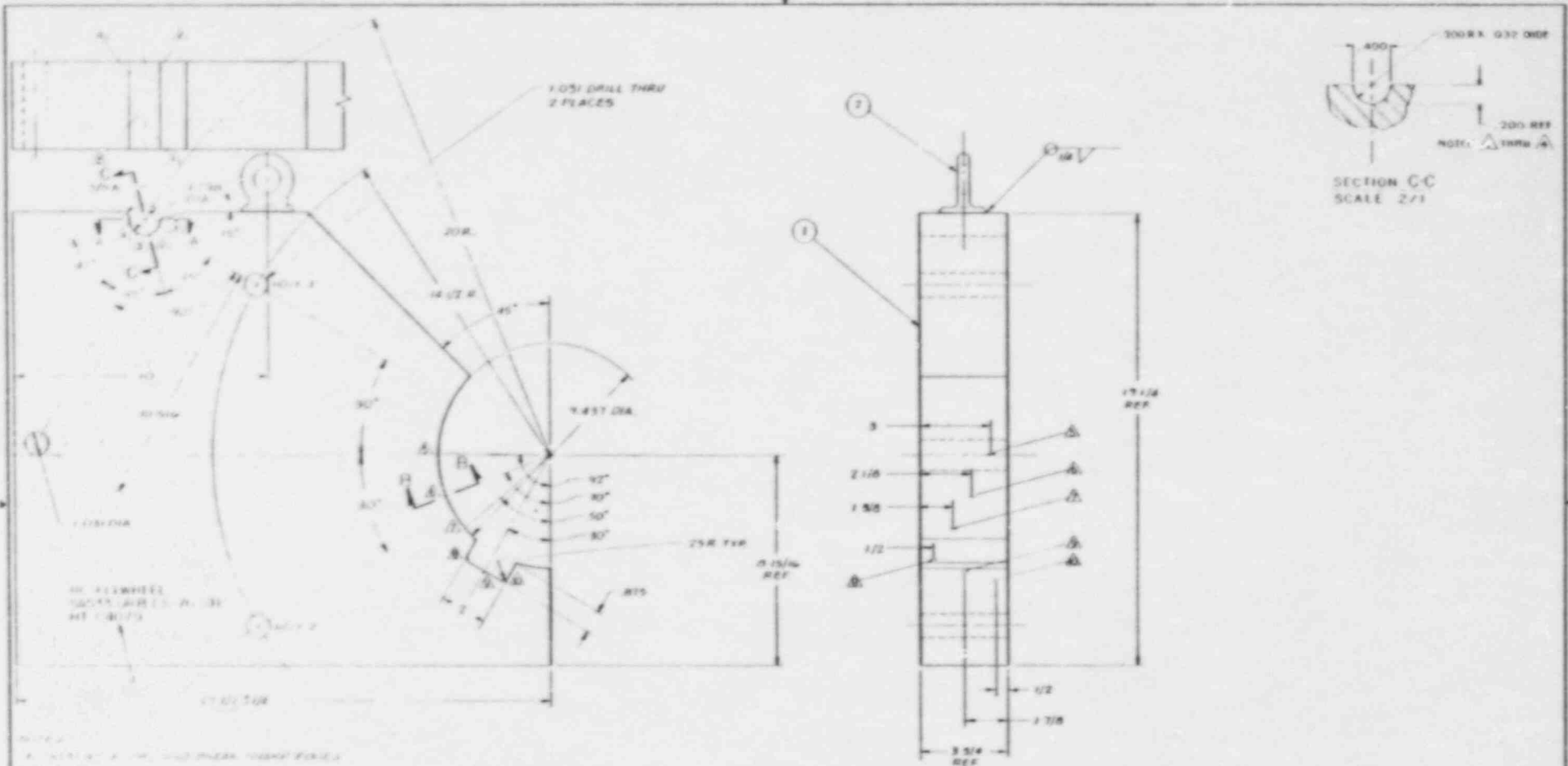
- NOTES:
- REMOVE BURRS AND BREAK SHARP EDGES.
  - ALL SURFACES TO BE MECHANICALLY EXAMINED IN ACCORDANCE WITH MIL-STD-1316 (REV. 1-61) (DD-1).
  - STEEL TYPED AT NO 2 MEET NO DN SURFACE INDICATED IN CHARACTERISTICS SECTION.
  - WELD FILLING SHALL BE AS PER MATERIAL PROVIDED BY SUPPLIER. MEET NO WELDING, SMOKING NO TIG.

4.5 750 SA740 (RB24-C5-40-STP)

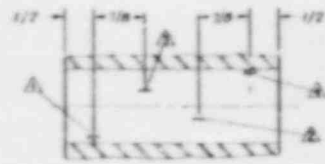
GOVERNMENT RESEARCH INSTRUMENT	
PROJECT NO.	4.5 750 SA740 (RB24-C5-40-STP)
DATE	10/20/50
BY	J. H. B. / J. H. B.
CHECKED BY	J. H. B. / J. H. B.
APPROVED BY	J. H. B. / J. H. B.
DESIGNED BY	J. H. B. / J. H. B.
MANUFACTURED BY	J. H. B. / J. H. B.
TESTED BY	J. H. B. / J. H. B.
REVISIONS	
NO.	DESCRIPTION
1	AS SHOWN
2	AS SHOWN
3	AS SHOWN
4	AS SHOWN
5	AS SHOWN
6	AS SHOWN
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100	AS SHOWN



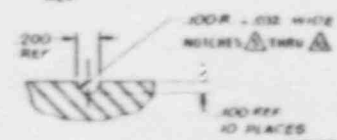
D-35



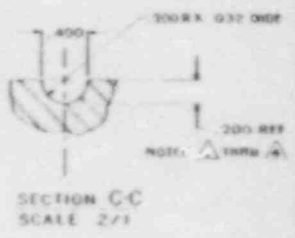
- NOTES:
1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES.
  2. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO BE DETERMINED BY THE BUYER.
  3. EXHAUSTIVE TYPING SHALL BE DONE THROUGHOUT ALL TYPING IN THIS DRAWING UNLESS OTHERWISE SPECIFIED IN THE NOTES.
  4. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO BE DETERMINED BY THE BUYER.
  5. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO BE DETERMINED BY THE BUYER.
  6. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO BE DETERMINED BY THE BUYER.



SECTION A-A  
SCALE 1/1



SECTION B-B  
SCALE 2/1



SECTION C-C  
SCALE 2/1

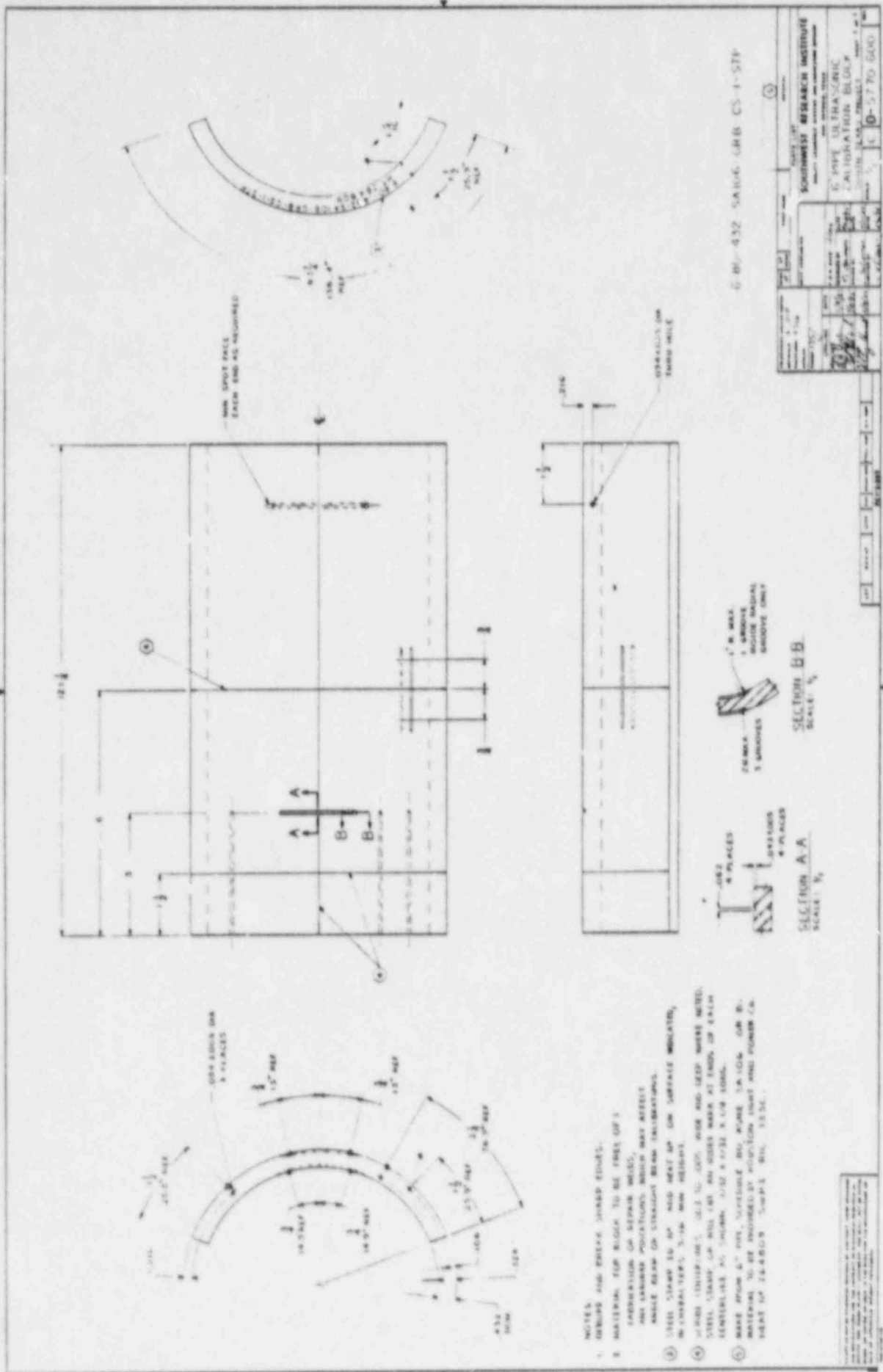
RC-FLYWHEEL SA533-GRB-CS-76-STP

REVISIONS

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION
D	6/26	
C	6/27	
B	6/27	
A	6/27	

REVISED BY	DATE	BY	DATE
PART USED			
SWITCH			
MATERIAL			
SOUTHWEST RESEARCH INSTITUTE			
QUALITY CONTROL			
FLYWHEEL			
UT CALIBRATION BLOCK			
SCALE 2/1			
C D-5770-659			

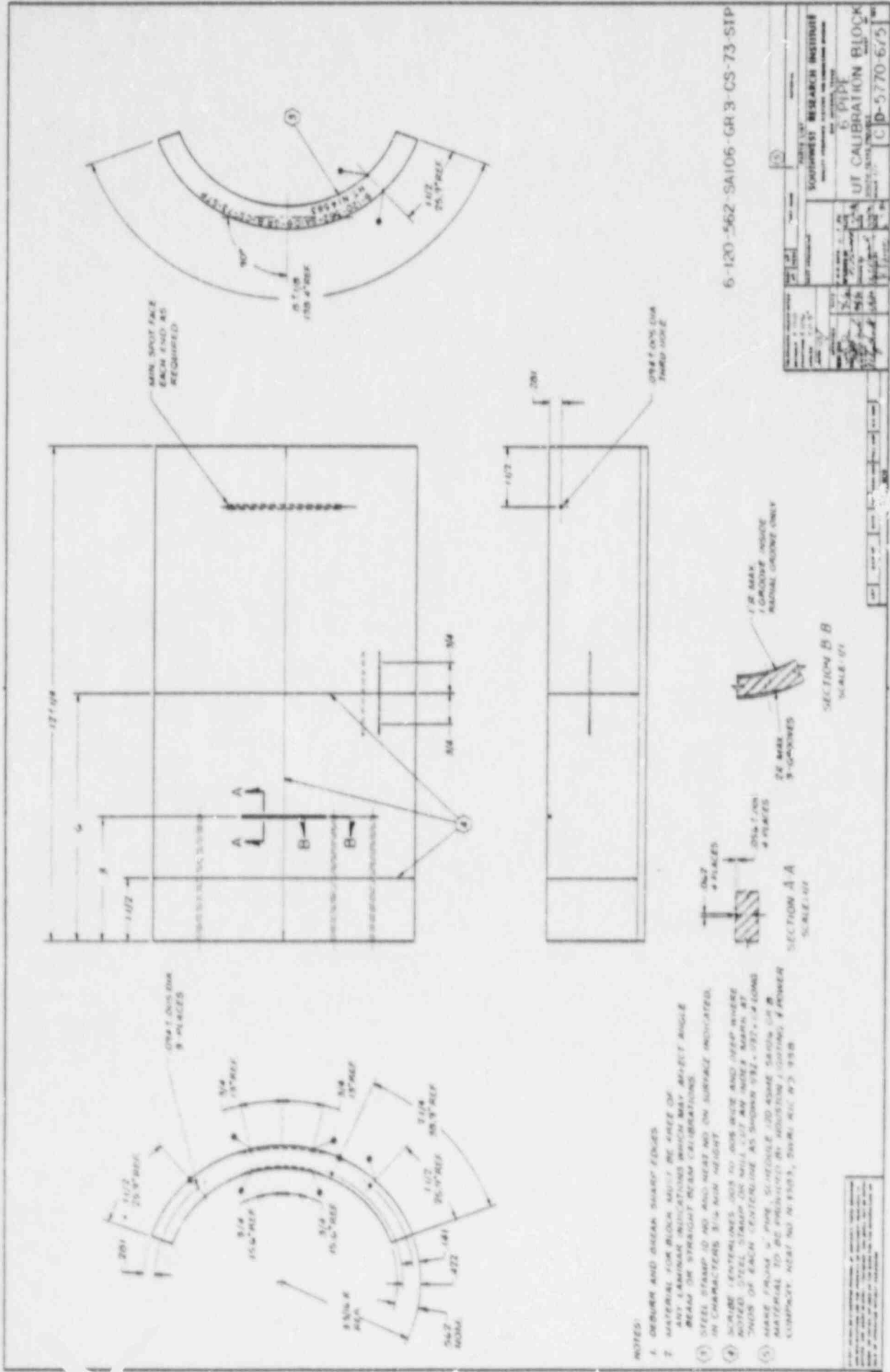


- NOTES AND OTHER WORKED DETAILS:
1. GROUPS AND PRESS WORKED DETAILS.
  2. MARKING TOP BEGINS TO BE FREE OF S. PROVISIONS ON REPAIR WELDS, AND WELDING POSITIONS MUST BE KEPT AS CLOSE AS POSSIBLE TO ORIGINAL.
  3. WELD SHALL BE 1/4" AND SET UP ON SURFACE WELDING, ON CENTERLINE, 3/16" MIN HEIGHT.
  4. WELD SHALL BE 1/4" TO 1/2" HIGH AND SET UP WHERE NEEDED. CENTERLINE ON WELD AND WELD MARK AT END OF EACH CENTERLINE AS SHOWN. 1/16" X 1/16" X 1/16" FOR 1/4".
  5. WELD FROM 1/4" TO 1/2" HEIGHT BY WELD 1/4" TO 1/2" ON B. MARKING TO BE MADE AT POSITION SHOWN AND PUNISH TO BEAT UP 1/4" TO 1/2" WELD. 1/16" X 1/16" X 1/16" FOR 1/4".

6-BE-432 SA-106-GRB CS-1-57F

DATE	10/15/57
BY	W. J. BROWN
CHECKED BY	W. J. BROWN
APPROVED BY	W. J. BROWN
DESIGNED BY	W. J. BROWN
SCALE	AS SHOWN

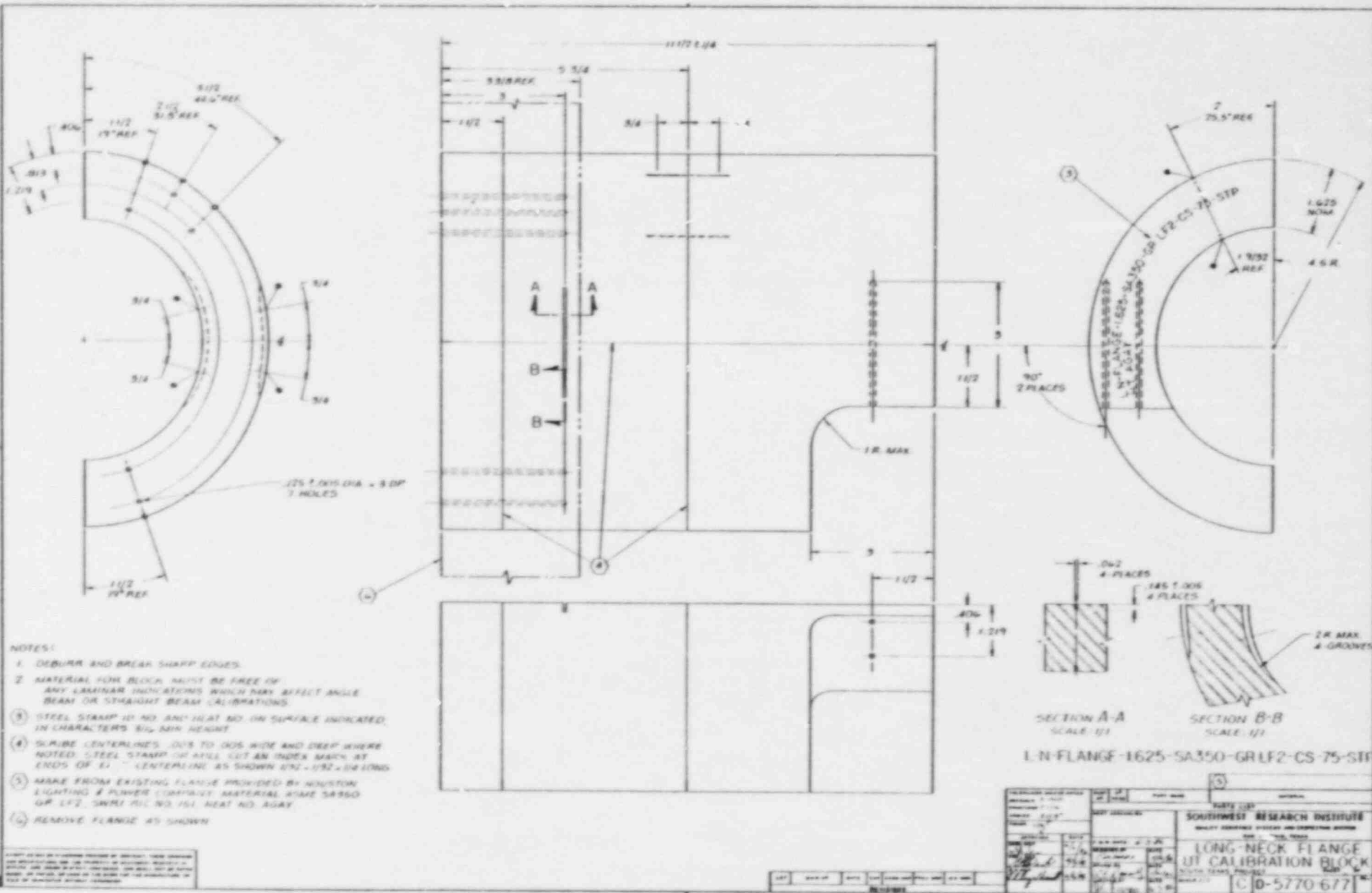
KONIGSMAYER RESEARCH INSTITUTE  
 6100 E. ULTRA-SOLAR  
 CALIFORNIA BLOCK BUILDING  
 1500 S. GARDEN AVENUE  
 PASADENA, CALIF. 91105  
 TEL. 792-5770



6-120-562-5A106-GR 3-CS-73-STP

DATE	10/1/73	BY	J. W. G.
APPROVED		BY	J. W. G.
NORTHWEST RESEARCH INSTITUTE			
6 PIPE UT CALIBRATION BLOCK			
C/D-5770-6/75			

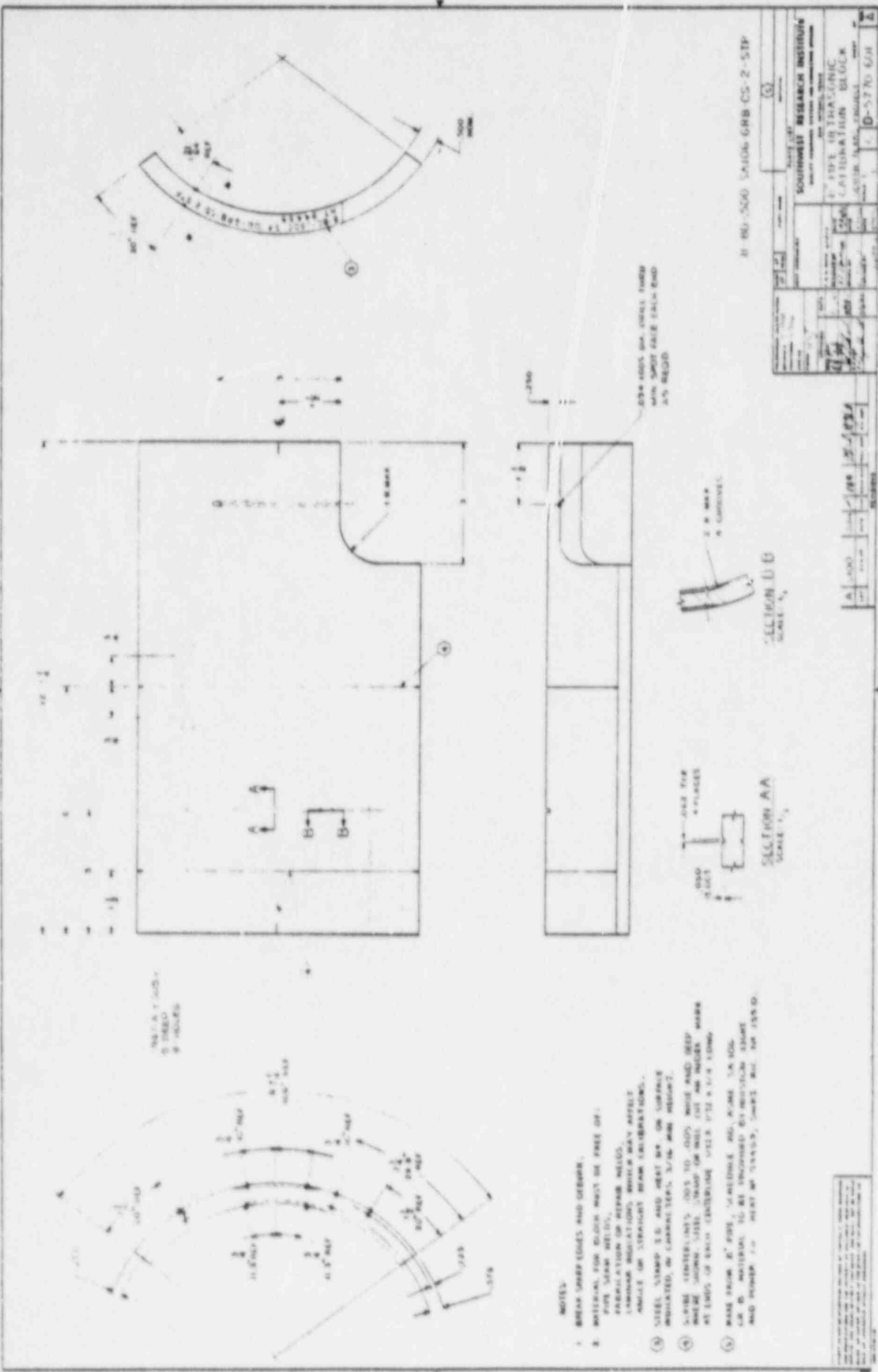
- NOTES:
1. DUBURN AND BEAR SHARP EDGES
  2. MATERIAL FOR BLOCK MUST BE FREE OF DEFECTS INCLUDING WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.
  3. STEEL STAMP ID NO AND HEAT NO ON SURFACE INDICATED, IN CHARACTERS 3/4 IN HIGH.
  4. SCRIBE CENTERLINES FOR NO. 108 WIRE AND DEEP WHERE NOTED. STEEL STAMP ON WALL, CUT AW INDEE MARKS AT THICK OF EACH CENTERLINE AS SHOWN 0.82 x 0.82 x 1.4 LONG.
  5. MAKE FRAMES OF PIPE, SCHEDULE 10 AS SHOWN 0.82 x 0.82 x 1.4 LONG MATERIAL TO BE PROVIDED BY ADDITIONAL COATING FARMER COMPANY, HEAT NO. N 8503, SHAWI. NO. N 5 958



- NOTES:
1. DEBURR AND BREAK SHARP EDGES.
  2. MATERIAL FOR BLOCK MUST BE FREE OF ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.
  3. STEEL STRAP IS NO. AND HEAT NO. ON SURFACE INDICATED IN CHARACTERS 3/16 MIN HEIGHT.
  4. SCRIBE CENTERLINES .015 TO .025 WIDE AND DEEP WHERE NOTED. STEEL STRAP ON STEEL CUT AN INDEX MARK AT ENDS OF  $\phi$  - CENTERLINE AS SHOWN ON  $\phi$  - 1/32 - 3/16 LONG.
  5. ABASE FROM EXISTING FLANGE PROVIDED BY HOUSTON LIGHTING & PUMPER COMPANY. MATERIAL W346 S450 OR LF2 SWRI 101 NO. 151 HEAT NO. 4947.
  6. REMOVE FLANGE AS SHOWN.

SECTION A-A SCALE 1/1  
SECTION B-B SCALE 1/1  
LN-FLANGE-1625-SA350-GR LF2-CS-75-STP

APPROVED FOR RELEASE BY THE DIRECTOR OF NATIONAL INTELLIGENCE SECURITY INFORMATION ON 08-28-2014 AUTHORITY: E.O. 13526, 08-28-2014		PART NAME LONG-NECK FLANGE UT CALIBRATION BLOCK	
PART NUMBER C D-5770-677	DATE 7/15/58	DRAWN BY J. W. B.	CHECKED BY J. W. B.
SOUTH WEST RESEARCH INSTITUTE 6001 GULF SHORE DRIVE HOUSTON, TEXAS 77058		C D-5770-677	



- NOTES:**
1. BREAK SHARP EDGES AND CORNERS.
  2. MATERIAL FOR BLOCK MUST BE FREE OF:
    - a. PIPE LEAK WELDS,
    - b. CRACKS,
    - c. CORROSION INDICATIONS WHICH MAY AFFECT
    - d. ANGLE OF STRAIGHT BEAM VIBRATIONS.
  3. STEEL STAMP IS TO BE MADE BY OR UNDER THE SUPERVISION OF THE MANUFACTURER, IN CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
  4. SAME UNDERLAYS, 1015 TO 1025 WELLS AND KEEP SAME UNDERLAYS UNDER STAMP OR WELLS AT ENDS OF EACH UNDERLAY WELLS (SEE 1-1-1 LINE).
  5. MAKE FROM ST. 304, 1/2" WELLS AND, WELLS IN END OR IN MATERIAL TO BE PROVIDED BY MANUFACTURER AND NUMBER TO BE MADE BY MANUFACTURER.

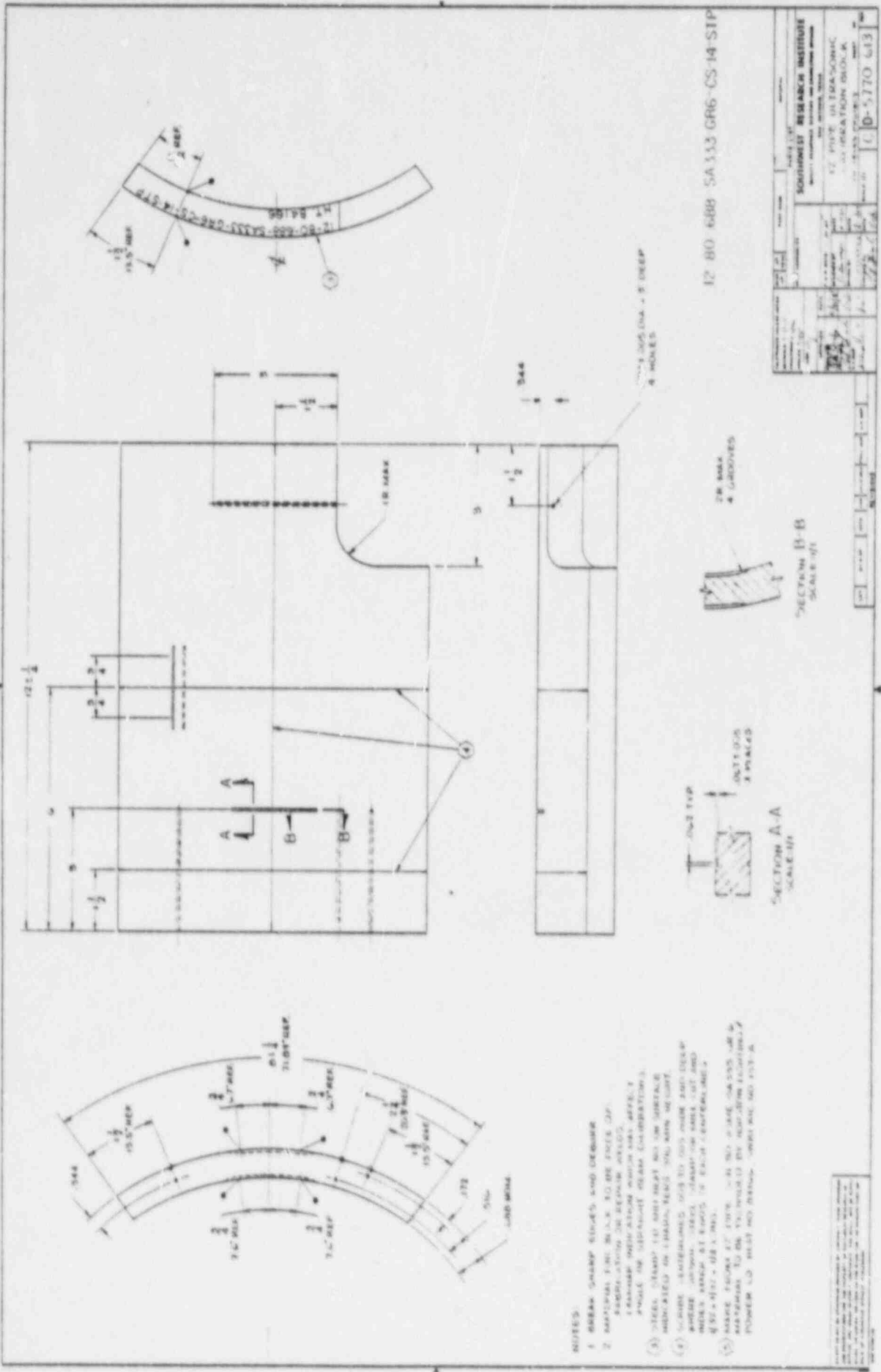
SI 80-550 SA106 GRB CS-2-5TP

PROJECT NO.	80-550
DATE	10/1/68
<b>SOUTHWEST RESEARCH INSTITUTE</b>	
4801 UNIVERSITY AVENUE, TULSA, OKLA. 74116	
P. PIPE IN THAUOGENIC CULTIVATION BLOCK	
DESIGNED BY	J. J. SMITH
CHECKED BY	J. J. SMITH
SCALE	AS SHOWN
PROJECT NO.	80-550
DATE	10/1/68
BY	J. J. SMITH
NO.	1
REV.	0

SECTION U-B  
SCALE 1/4"

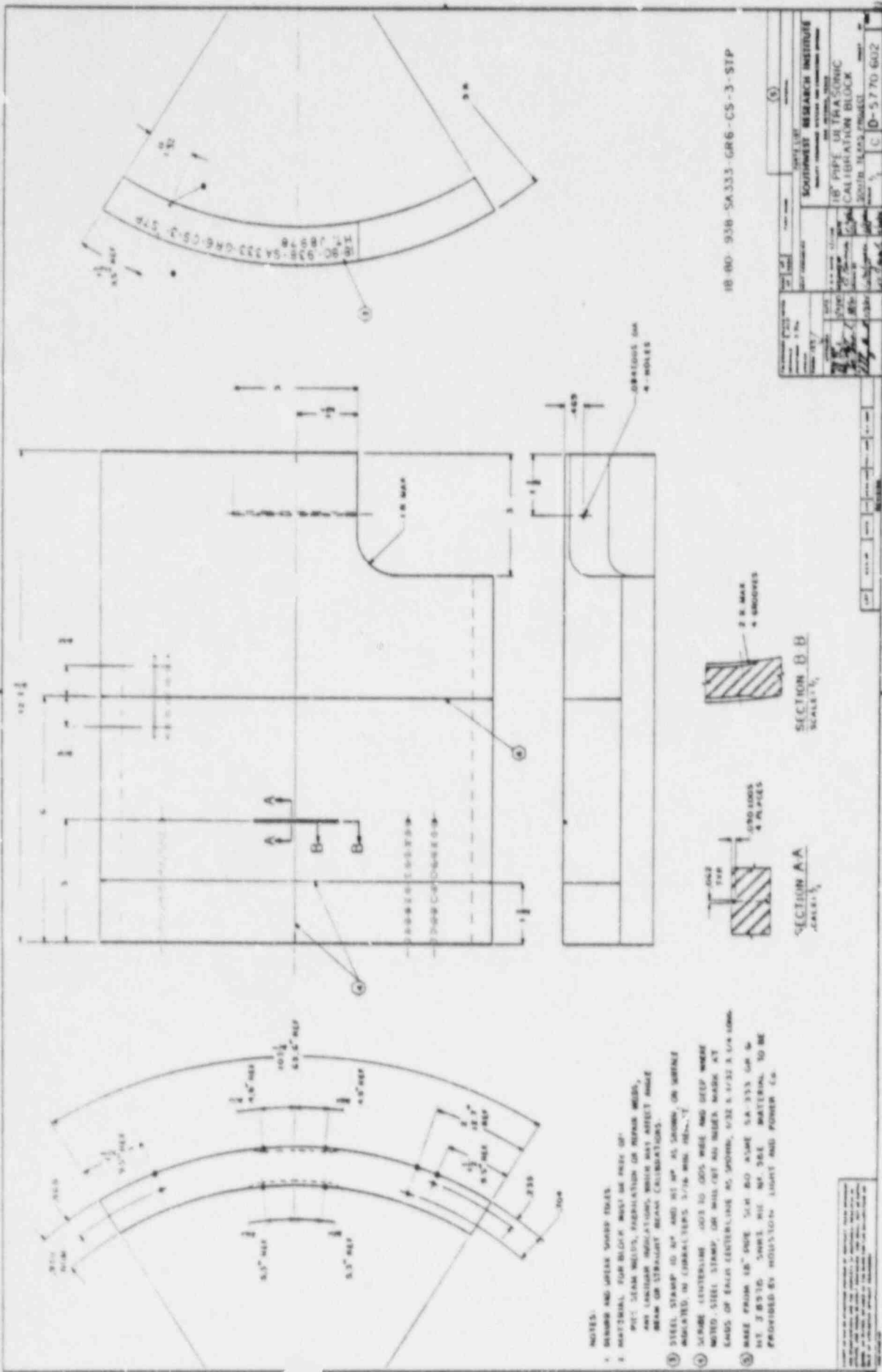
SECTION A-A  
SCALE 1/4"

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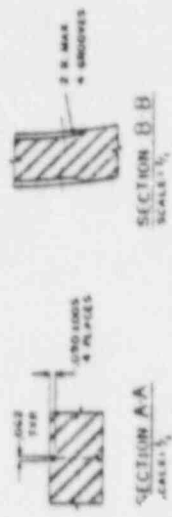


- NOTES:
- 1 BREAK SHARP EDGES AND DEBURR
  - 2 HORIZONTAL LINE MARK TO BE EXERCISE OF FABRICATOR IN BEARING AREAS. PROVIDE INDICATION WHEN APPROPRIATE
  - 3 DIMENSIONS SHOWN IN PARENTHESES INDICATED IN PARENTHESES ARE FOR REFERENCE ONLY. DIMENSIONS IN PARENTHESES ARE TO BE USED WHEN DIMENSIONS IN PARENTHESES ARE NOT SHOWN.
  - 4 SURFACE FINISH TO BE 125 TO 150 MICRO INCH RMS UNLESS OTHERWISE SPECIFIED BY SURFACE FINISH SYMBOLS
  - 5 MARKS FROM ET TEST - IN 80-6888 SA 533 GR6-CS-14-STP ARE TO BE FOLLOWED BY REVISIONS TO BE MADE TO THIS DRAWING UNLESS OTHERWISE SPECIFIED

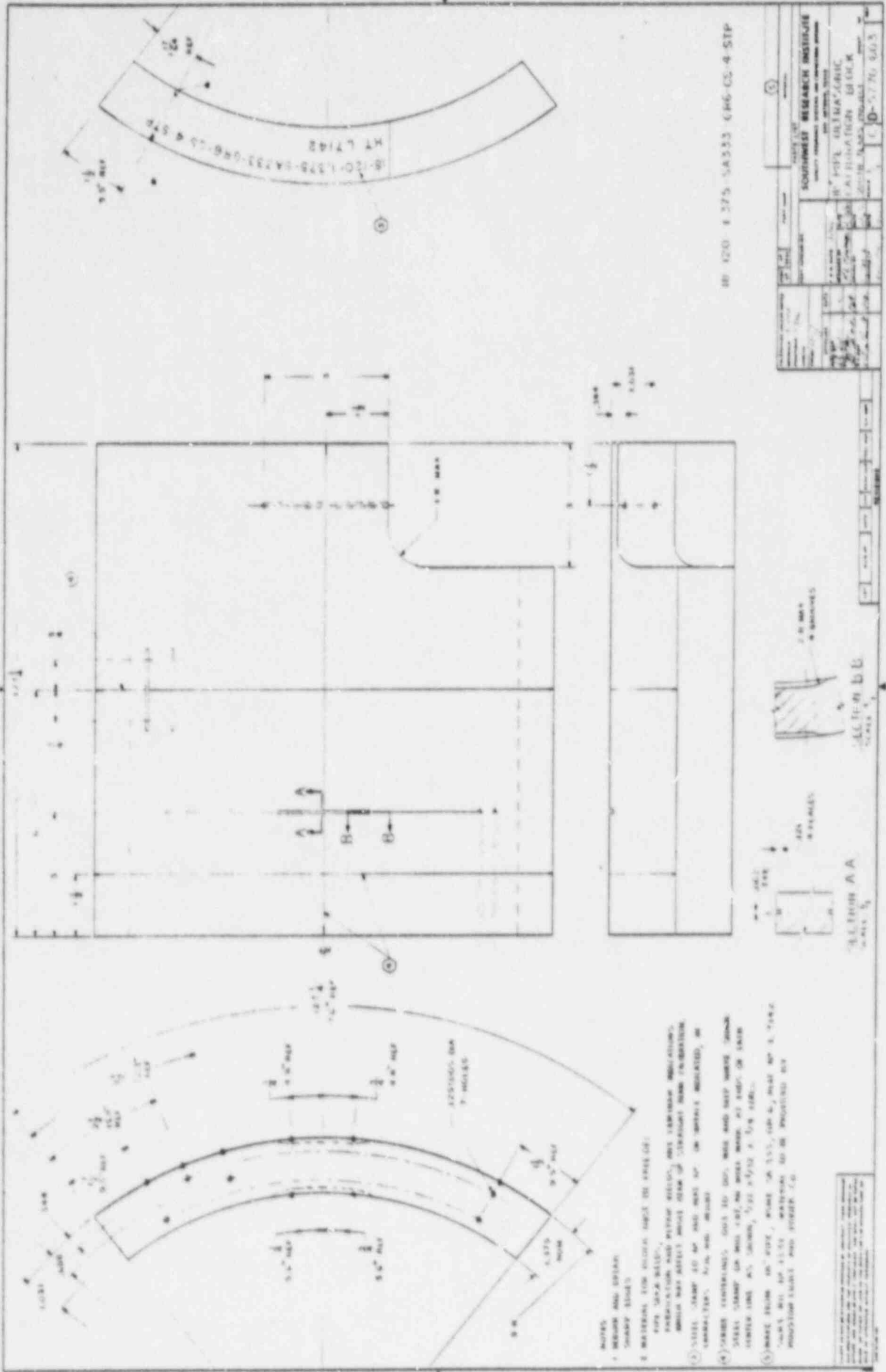




- NOTES:
1. DRUMS AND WHEEL SHARP EDGES
  2. MATERIAL FOR BLEEP MUST BE FREE OF:  
 a. PIT, SEAM, BUBBLE, FRICTION OR REPAIR WELD,  
 AND UNUSUAL INCLUSIONS WHICH MAY AFFECT ANGLE  
 BEAM OR ULTRASOUND BEAM CALIBRATIONS.
  3. STEEL STAMP TO 8" AND 8.5" AS SHOWN, OR WELDED  
 INDICATED, IN CHARACTER'S 1/16 MIN. RECOMM.
  4. SCRIBE CENTERLINE 0.03 TO 0.05 WIDE AND DEEP WHERE  
 NEEDED. STEEL STAMP, OR MILL CUT AS NOTED MARKS AT  
 ENDS OF EACH CENTERLINE AS SHOWN, SIZE 3/32 X 1/4 LONG.
  5. MADE FROM 18" O.D. SAE 304 S304 SA-333 GR 6  
 1/2 X 3/16 TO 3/8 IN. 1/2 X 3/8 IN. SAE 304 MATERIAL TO BE  
 PROVIDED BY HOUSTON LIGHT AND POWER CO.



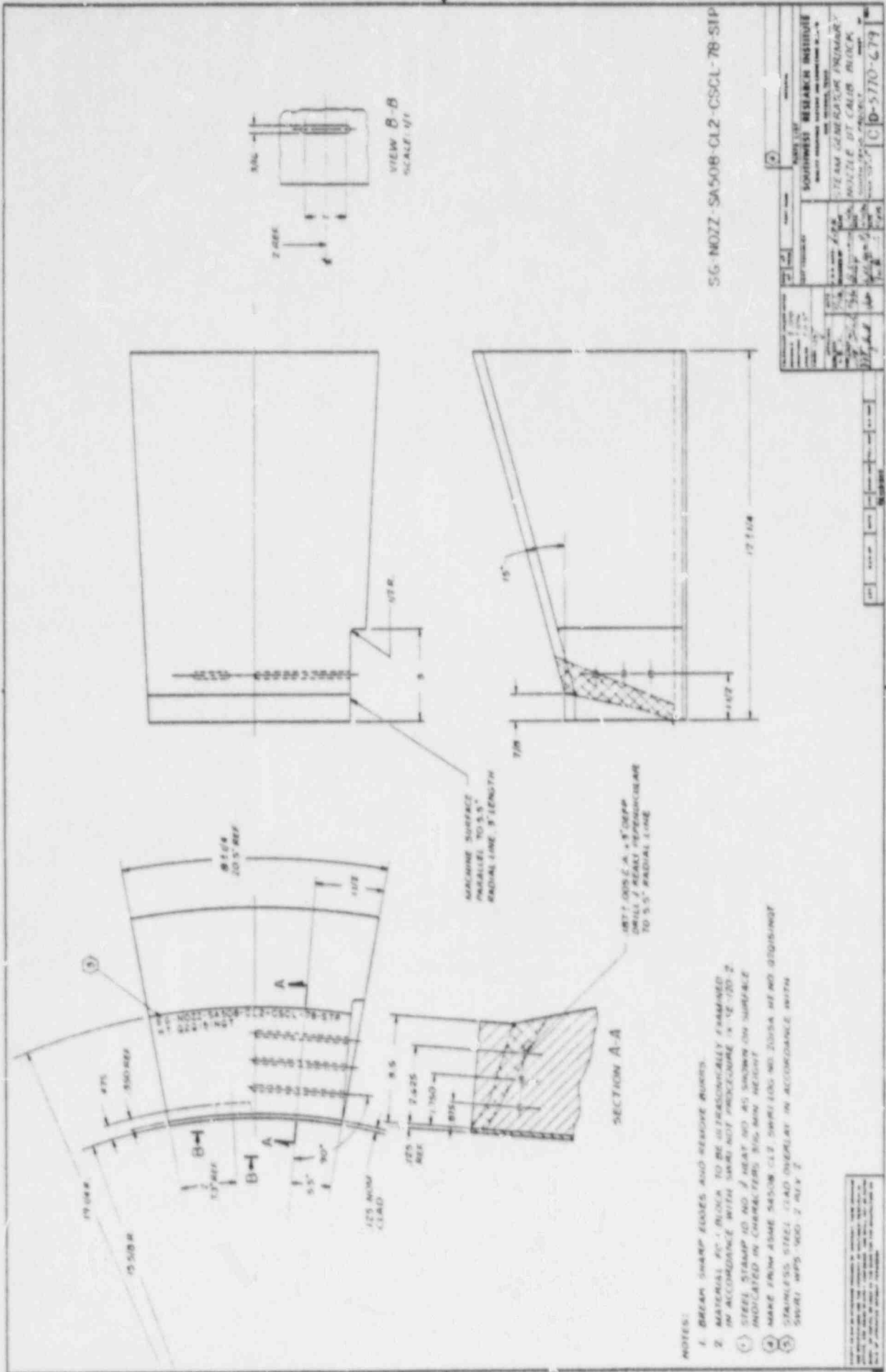




NO. 020 4 275 SA 255 (PG. 05-4-51P)

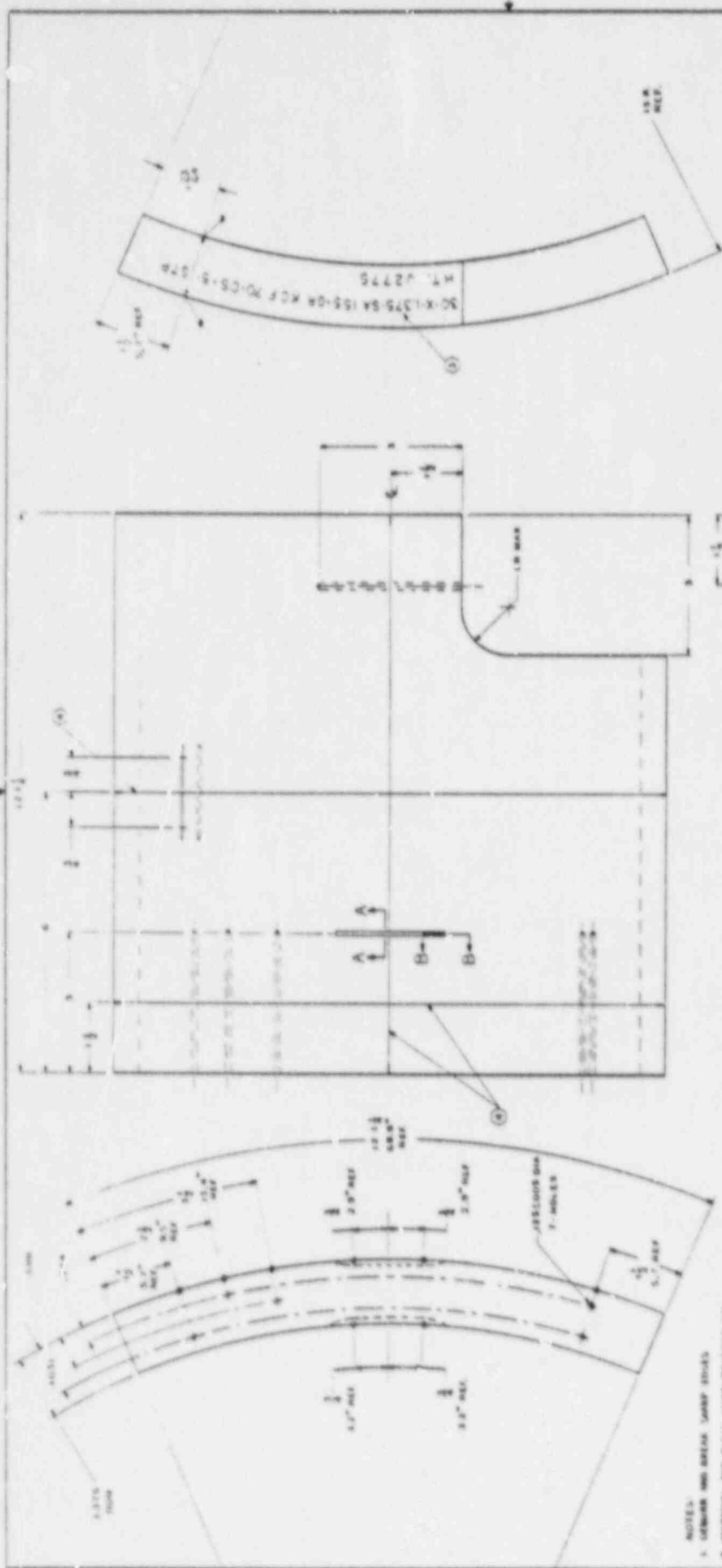
PROJECT		SOUTHWEST RESEARCH INSTITUTE	
ARCHITECT	PETER J. BETHA ARCHITECTS	ENGINEER	W. H. HARRIS
DATE	1957	CONTRACT NO.	100-1378-04-255
OWNER	AT&T BELL LABORATORIES	LOCATION	MOUNTAIN VIEW, CALIF.
DESIGNER	PETER J. BETHA ARCHITECTS	SCALE	AS SHOWN
DATE	1957	BY	PJB
CHECKED		DATE	

- NOTES
1. BEARING AND SPIRES - SHOWN AS SHOWN
  2. MATERIALS FOR CURVED WALL TO BE AS SHOWN
  3. CURVED WALL TO BE CONCRETE WITH REINFORCING BARS AND WITH REINFORCING BARS AT RIGHT ANGLES TO CURVED WALL (SEE SECTION B-B)
  4. CURVED WALL TO BE CONCRETE WITH REINFORCING BARS AND WITH REINFORCING BARS AT RIGHT ANGLES TO CURVED WALL (SEE SECTION B-B)
  5. CURVED WALL TO BE CONCRETE WITH REINFORCING BARS AND WITH REINFORCING BARS AT RIGHT ANGLES TO CURVED WALL (SEE SECTION B-B)



S6-NOZZ-SA50B-CL2-CSCL-7B-SIP  
 SOUTHWEST RESEARCH INSTITUTE  
 3715 UNIVERSITY AVENUE  
 DENVER, COLORADO 80202  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 DATE: [Date]  
 PROJECT NO.: [Number]  
 SHEET NO.: [Number] OF [Total]

- NOTES:
1. BREAK SHARP EDGES AND REMOVE BURRS.
  2. MATERIAL PC-1-BLICH TO BE REASONABLY EXAMINED IN ACCORDANCE WITH SWRI NOT PROCEDURE N-12-100-2.
  3. STEEL STAMP IS NO. 2 HEAT AND NO SWRI OR SURFACE INDICATED IN CHARACTERISTICS 50% MIN HEIGHT.
  4. MAKE FROM ASME SECTION 1.5 SWRI LOG NO. 20054 HE NO DIGITING.
  5. STAINLESS STEEL CLAD OVERLAY IN ACCORDANCE WITH SWRI WPS 900-2 REV 2.



- NOTES:
1. GRIND AND BREAK SHARP EDGES
  2. MATERIAL FOR BLOCK MUST BE FREE OF DEFECTS, FERRITUM AND REPAIRS, AND LUBRICANTS. SURFACE GRIND MUST APPEAR SLIGHT BROWN OR STRONGEST IRON OXIDATION.
  3. STEEL STAMP TO NO AND HEAT AS S-1000 OR SURFACE INDENTED IN CHARACTER 3/16 INH DEPTH.
  4. MAKE CENTERING JIGS TO JIGS MORE AND TEST MAKE SHOWN STEEL STAMP ON WALL SET, AND MAKE MARK AS LONG AS EACH CENTERING AS SHOWN, 5/16 TO 1/2 IN A/D LONG.
  5. MAKE FROM 30\"/>

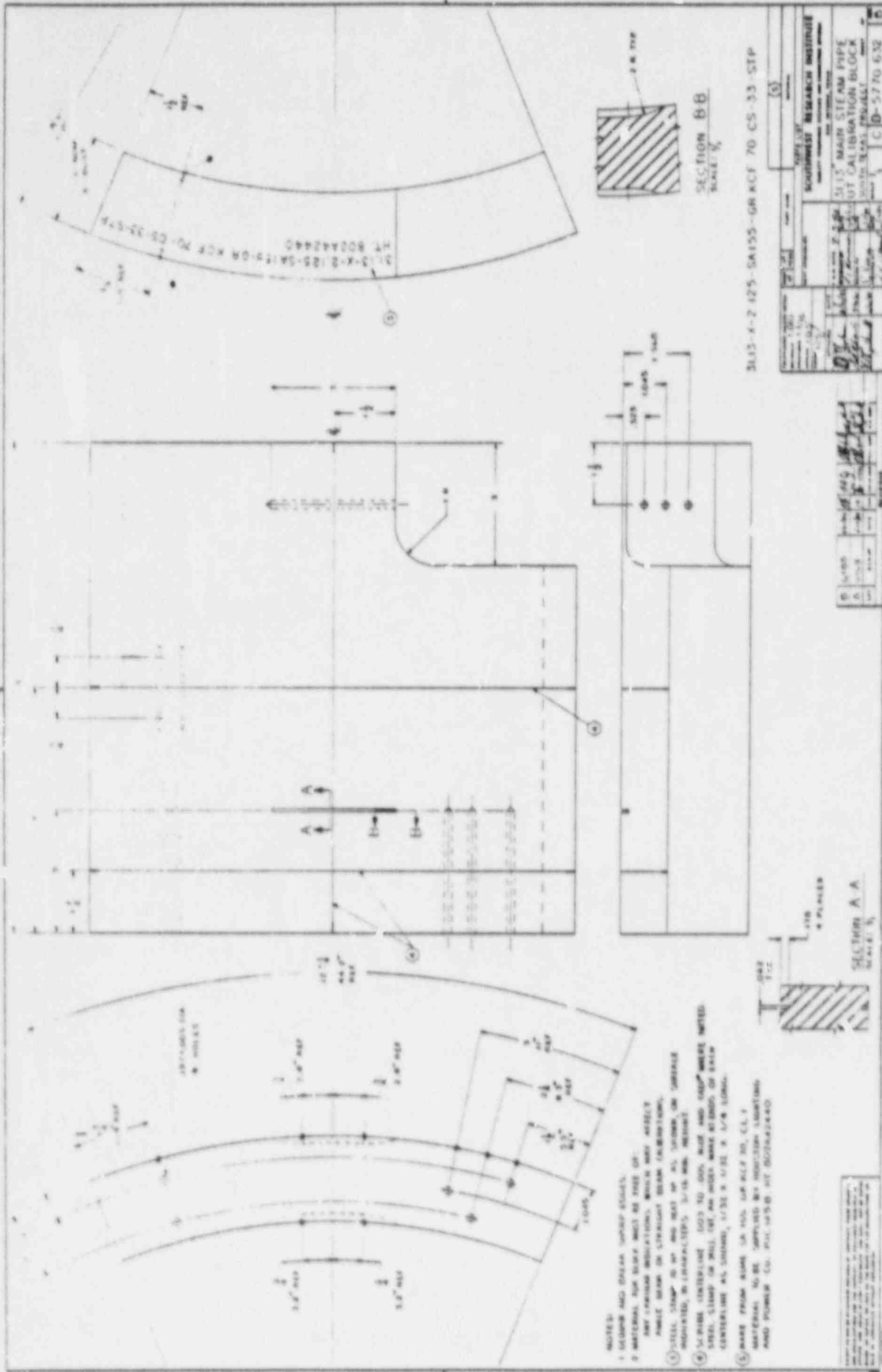
30-X-6375-SA155-GR KOF 70-CS-5-STEP

DATE	BY	CHKD	APP'D
REV	DESCRIPTION	DATE	BY

30\"/>

SECTION A-A  
SCALE 3/4\"/>

SECTION B-B  
SCALE 1/2\"/>



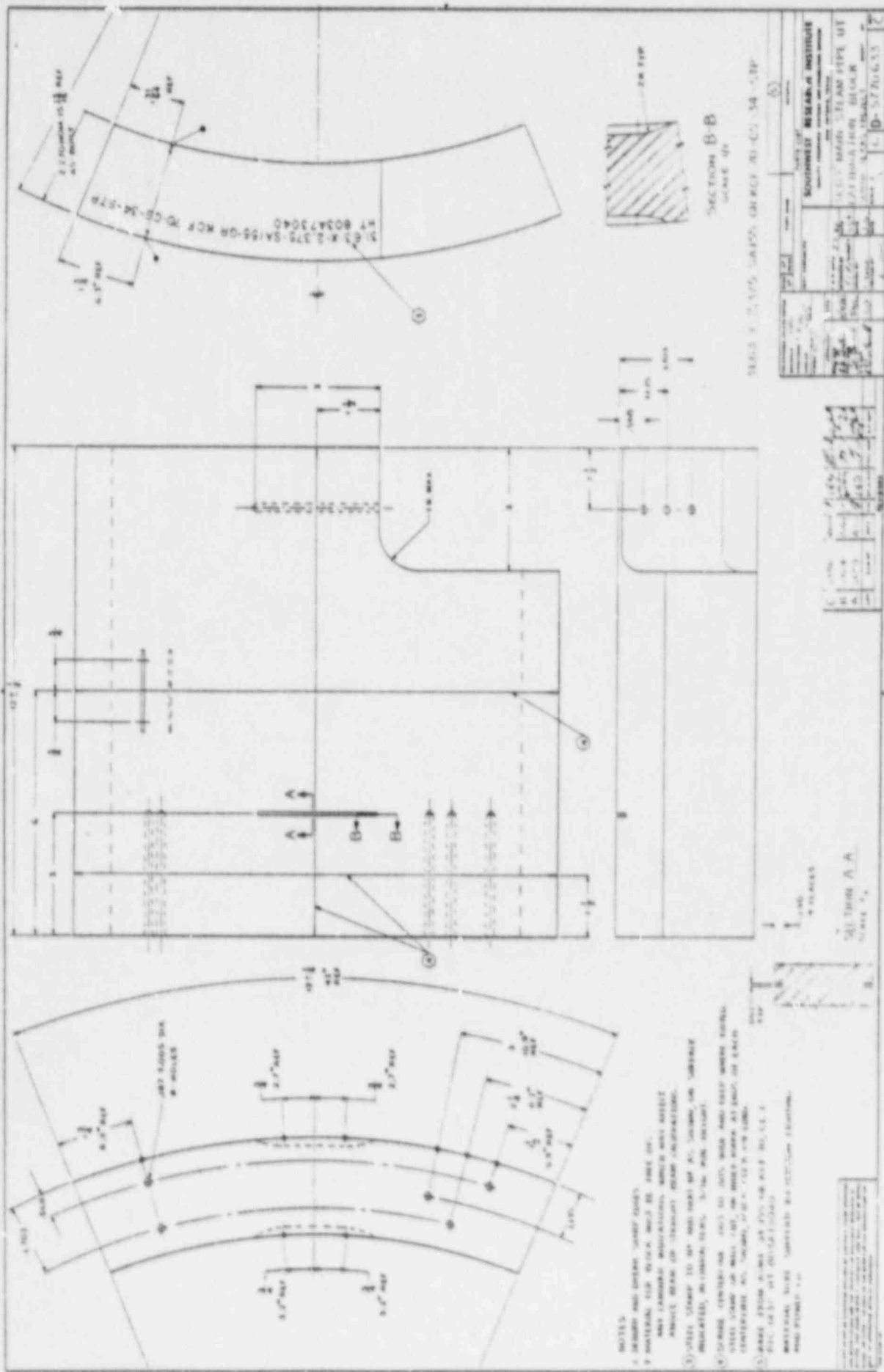
313-4-2 125-SA155-GR RCF 70 CS-33-STEP

SECTION B-B  
SCALE 1/4"

SECTION A-A  
SCALE 1/4"

- NOTES:  
 1. SECTION AND DIMENSIONS SHOWN.  
 2. MATERIAL FOR DIMENSIONS MUST BE FREE OF ANY FERRITE INCLUSIONS, WHICH MAY AFFECT THE STRENGTH OF STRAIGHT DIMENSIONS.  
 3. STEEL SHIP TO BE AS SHOWN ON DRAWING, UNLESS OTHERWISE SPECIFIED.  
 4. DIMENSIONS CENTERLINE UNLESS OTHERWISE NOTED.  
 5. DIMENSIONS CENTERLINE UNLESS OTHERWISE NOTED.  
 6. DIMENSIONS CENTERLINE UNLESS OTHERWISE NOTED.  
 7. DIMENSIONS CENTERLINE UNLESS OTHERWISE NOTED.  
 8. DIMENSIONS CENTERLINE UNLESS OTHERWISE NOTED.

DATE	BY	CHKD	APP'D
1958	J. J. ...	J. J. ...	J. J. ...
RESEARCH ENGINEER			
S13 MAIN STEAM PIPE			
CALIBRATION BLOCK			
SCALE 1/4"			
PROJECT			
C D-5770-632			

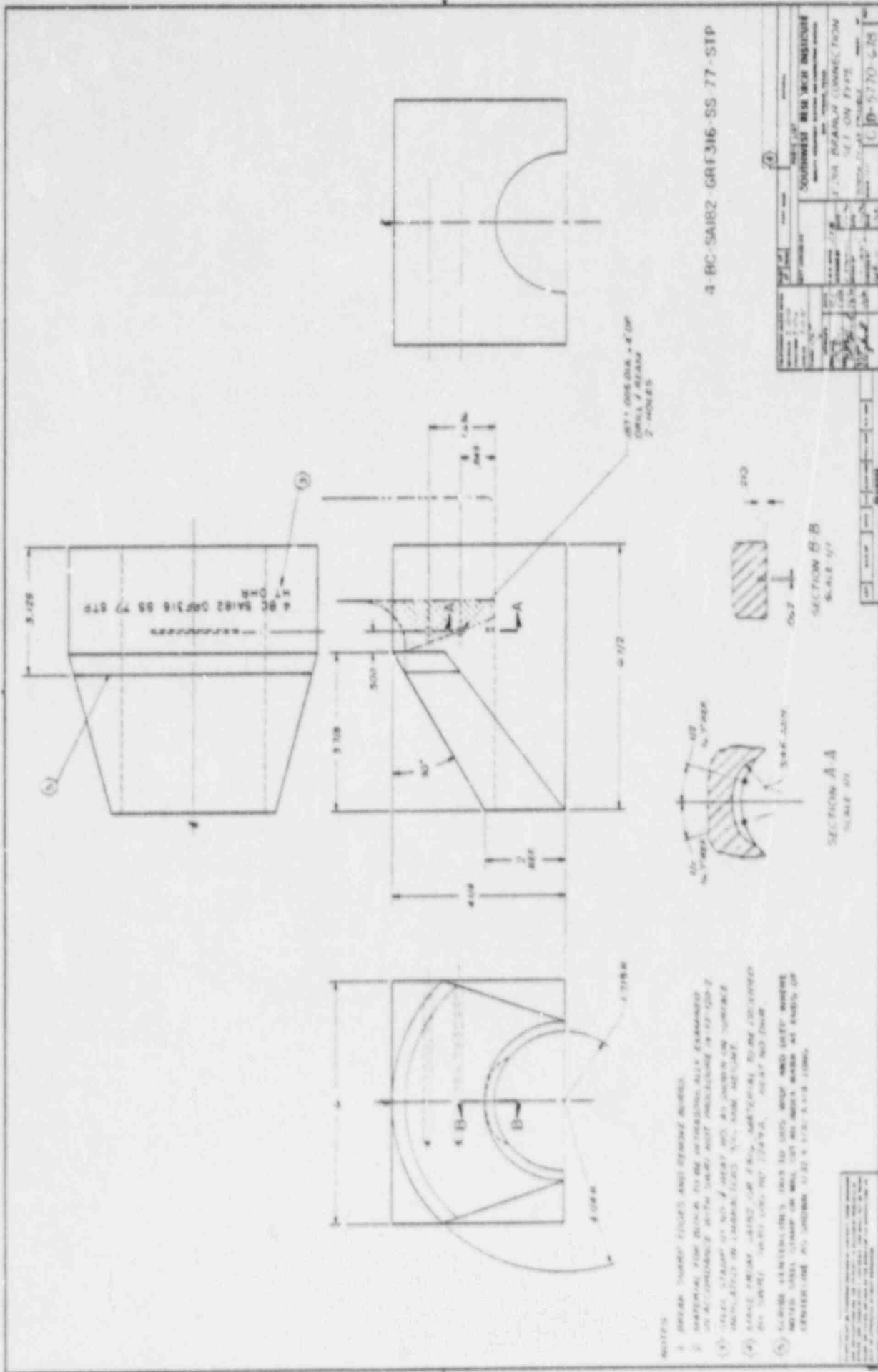


NOTES  
 1. DIMENSIONS AND WEIGHTS SHOWN  
 2. MATERIALS TO BE USED AS SHOWN  
 3. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES  
 4. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO FACE UNLESS OTHERWISE SPECIFIED  
 5. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO CENTER UNLESS OTHERWISE SPECIFIED  
 6. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO CENTER UNLESS OTHERWISE SPECIFIED  
 7. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO CENTER UNLESS OTHERWISE SPECIFIED  
 8. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO CENTER UNLESS OTHERWISE SPECIFIED  
 9. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO CENTER UNLESS OTHERWISE SPECIFIED  
 10. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO CENTER UNLESS OTHERWISE SPECIFIED

SECTION B-B  
 SCALE 1/4"

PROJECT NO.	DATE	SCALE	BY	CHECKED
APPROVED FOR CONSTRUCTION				
APPROVED FOR INSTALLATION				
APPROVED FOR OPERATION				

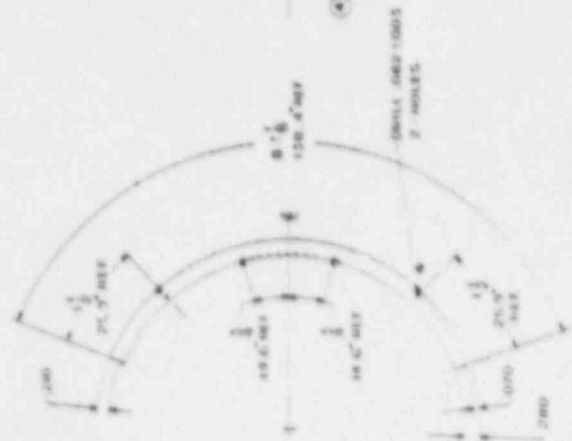
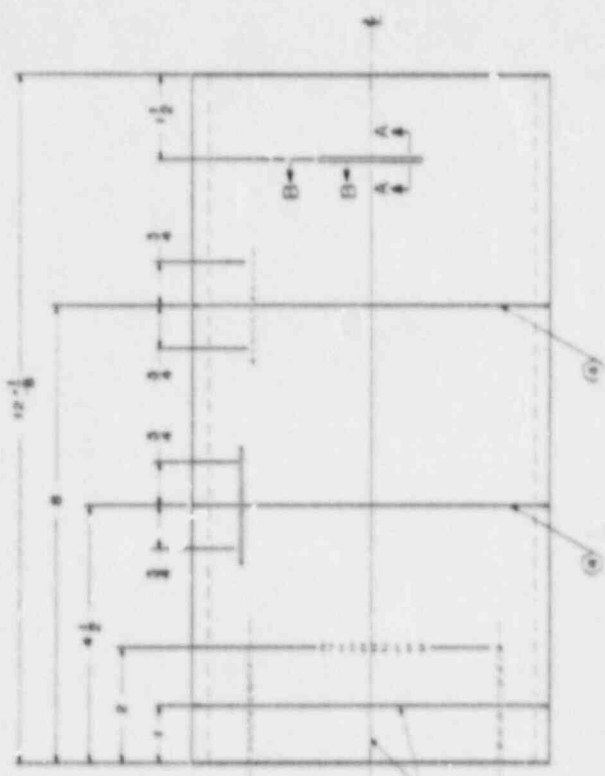
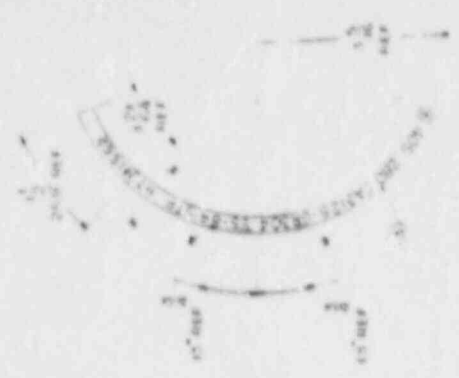




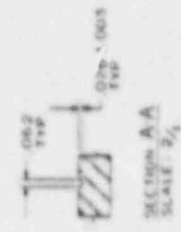
4 BC SA182 GRF316 SS 77-STP

DESIGN		DATE	
NO.	DESCRIPTION	BY	CHKD.
1	ISSUED FOR FABRICATION		
SOUTHWEST RESEARCH INSTITUTE		4101 GILBERT BLVD., TUCSON, ARIZ. 85724	
PROJECT		L-388 RESEARCH VESSEL FROM	
TASK		SHELL COR. TYPE	
DRAWN		S. J. M. JR.	
CHECKED		G. J. M.	
SCALE		AS SHOWN	
UNLESS OTHERWISE SPECIFIED		U.S. CUSTOMARY UNITS	
MATERIALS		A. S. E. 100	
FINISHES		S. J. M. JR.	
TOLERANCES		DIMENSIONS: .001	
ANGLES		±.001	
SPRINGS		±.001	
WELDS		±.001	

- NOTES:
1. BRASS TURNBUTTLES AND REMOTE BOLTS.
  2. MATERIAL FOR BUSHES TO BE PROVISIONALLY EXAMINED TO ACCORDANCE WITH SHELL NOT PROVISION 9-17-100-2.
  3. STEEL STAPLS TO NO. 4 SHEET MET. AT JOINTS ON TURNBULE INSULATED ON UNDERPLATE AND ON DECK.
  4. GASKET FROM JOINT FOR ENDS, MATERIAL TO BE PROVIDED BY OWNER. (SEE DRAWING 318-2, SHELL NO. 1004).
  5. GUDGE CENTERLINE, THIS IS 100.5. SHIP AND DECK WHERE METAL SHELL JOINT IS MET. (SEE SHELL NO. 1004 AT ENDS OF CENTERLINE AT JOINT NO. 1004 & 1005).



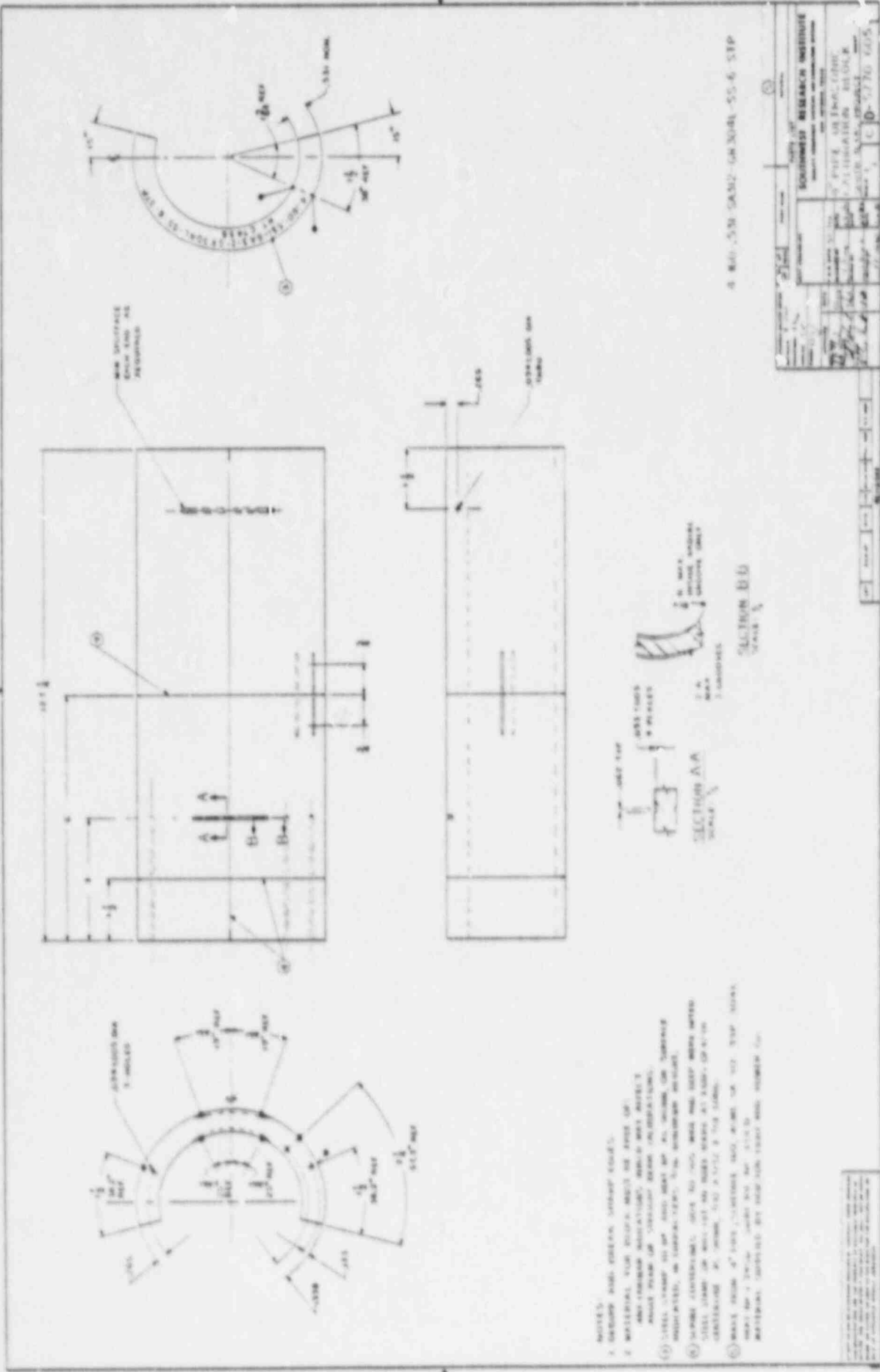
- NOTES:
1. DRILL AND DEEP SHARP EDGES.
  2. MATERIAL, PER BLOCK TO BE INTERCHANGEABLY EXCHANGED BY ALUMINUM WITH 1/2" DIA HOLES AND PROCEEDINGS IN 11, 120-2.
  3. 1/2" DIA. HOLE IN 1/2" DIA. HOLE AND 1/2" DIA. HOLE IN 1/2" DIA. HOLE.
  4. SHARP EDGES TO BE 1/2" DIA. HOLE AND 1/2" DIA. HOLE.
  5. 1/2" DIA. HOLE IN 1/2" DIA. HOLE AND 1/2" DIA. HOLE IN 1/2" DIA. HOLE.
  6. 1/2" DIA. HOLE IN 1/2" DIA. HOLE AND 1/2" DIA. HOLE IN 1/2" DIA. HOLE.

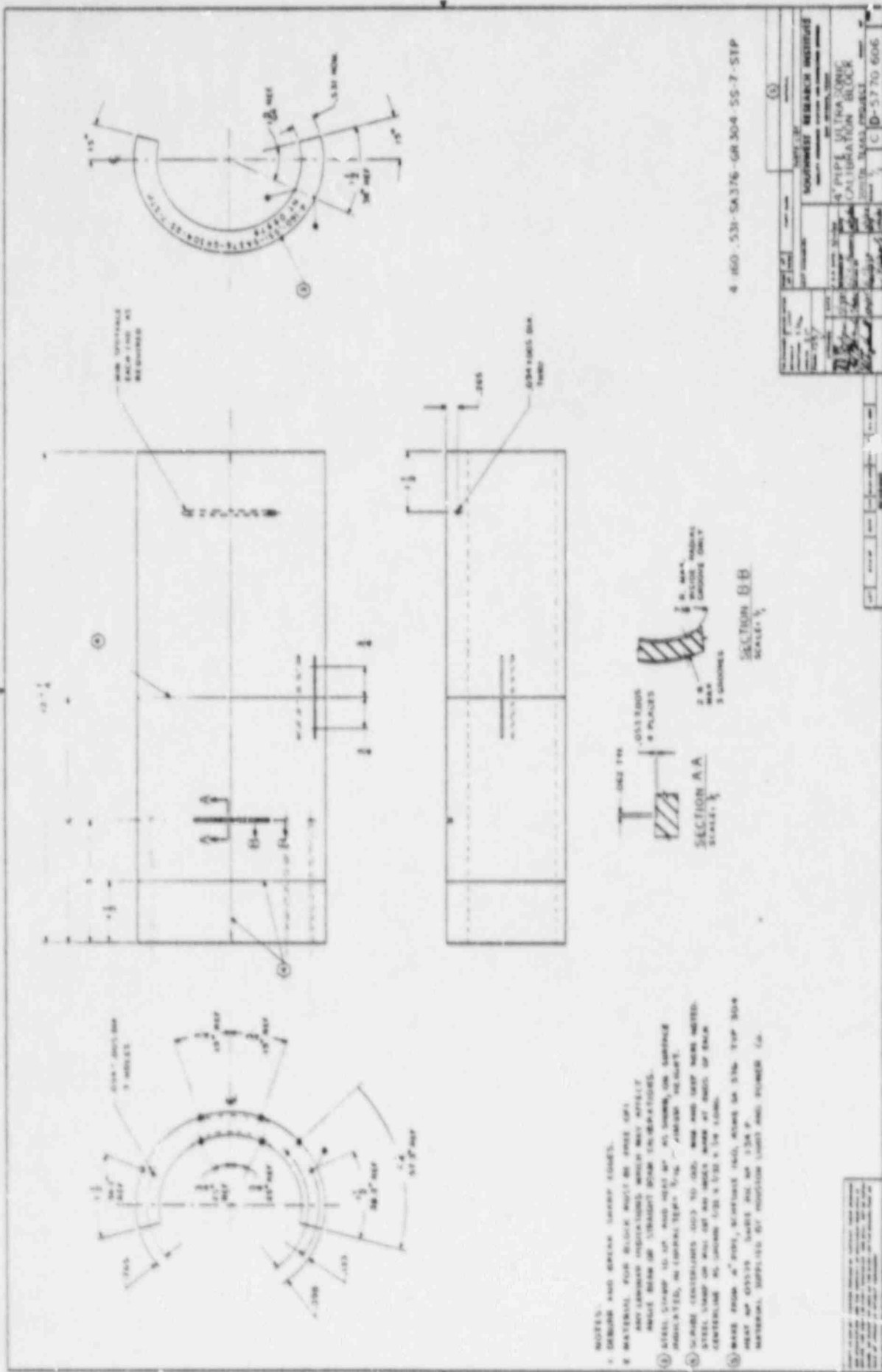


6-405 280-SA 307 (6, NO. 4-5) 16-11

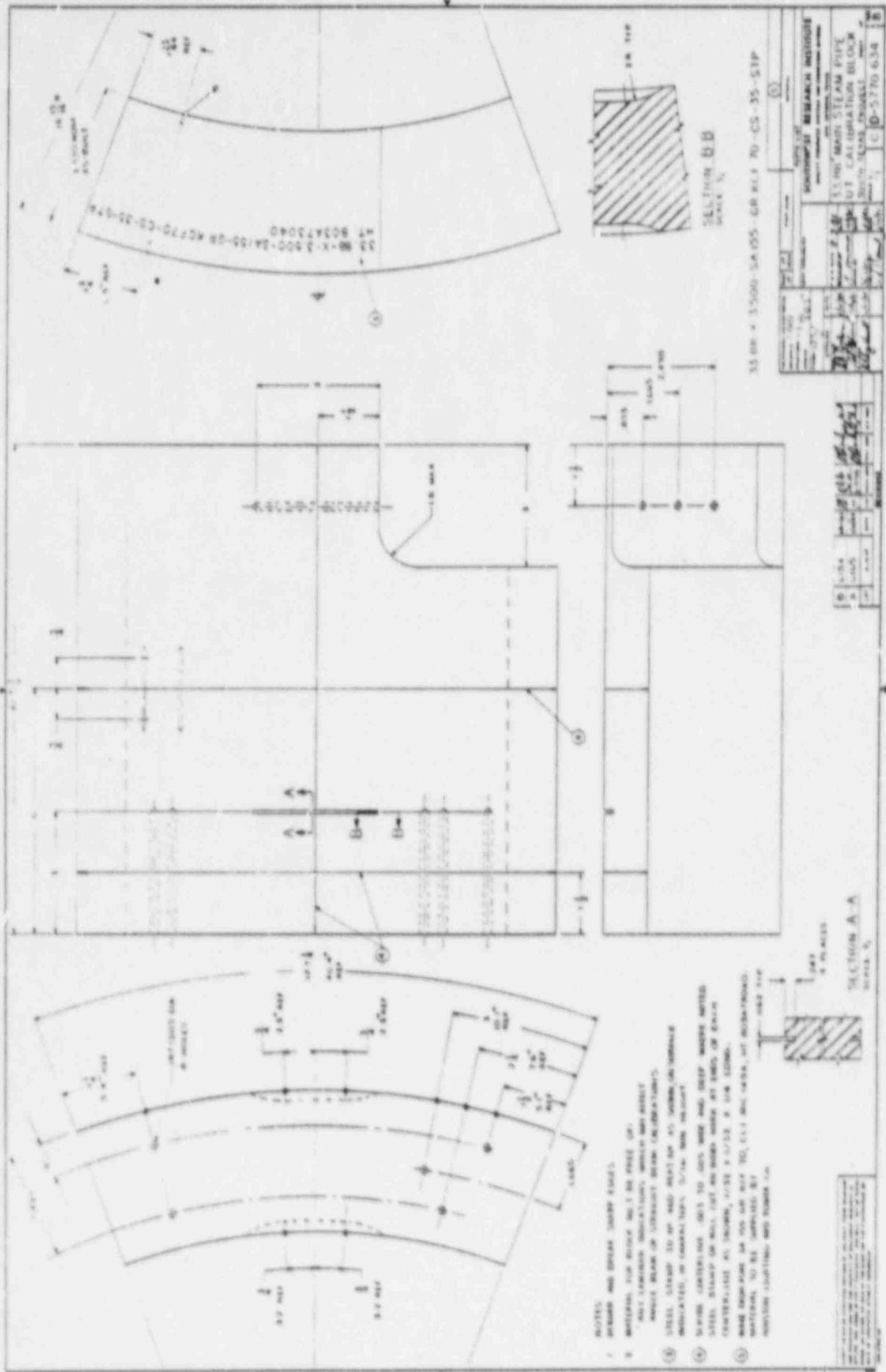
DESIGN		REVISIONS	
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- NOTES:
1. DESIGN AND BRASS MARKING CODES.
  2. MATERIAL FOR BLOCK MUST BE FREE OF ALL ANY SURFACE IMPURITIES WHICH MAY AFFECT RANGE BREADTH OF STRAIGHT BEAM TRANSDUCERS.
  3. STEEL STAMP IS TO BE MADE AT AN ANGLE OF 15 DEGREES, ON SURFACE INDICATED, IN CAPITAL LETTERS 1/16" - 1/8" HIGH.
  4. SURFACE CONTIGUOUS TO THE 15 DEGREE AND 15 DEGREE MUST BE FREE OF ALL SURFACE IMPURITIES WHICH MAY AFFECT RANGE OF BEAM TRANSDUCERS AT ANGLE OF 15 DEGREE.
  5. MADE FROM A-304, STAINLESS STEEL, GRADE SA 376, TYP 304 MATERIAL SUPPLIED BY ROUSSEL URBAN AND FOUNDER Co.



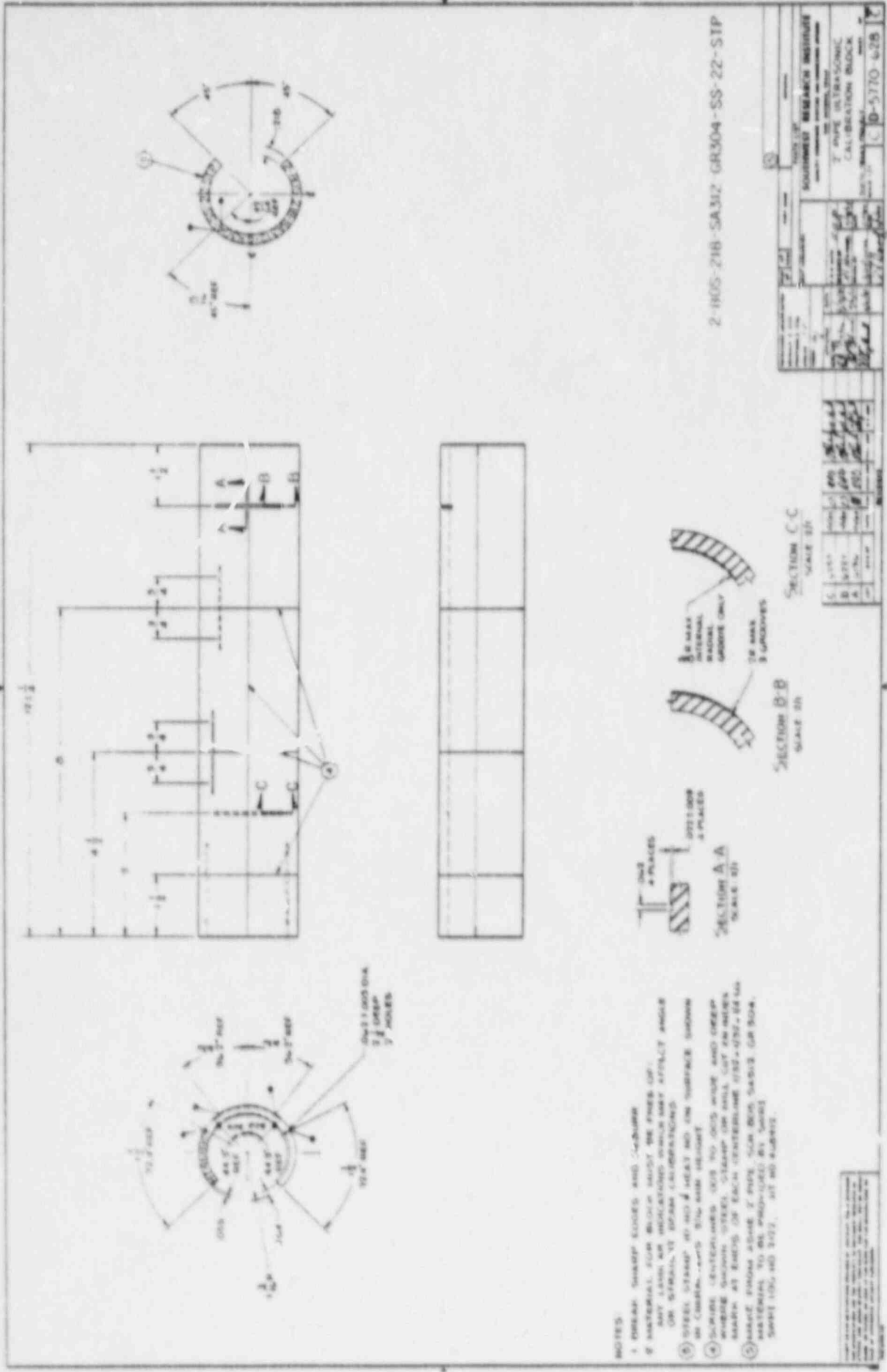
NOTES:  
 1. STAIRS AND OTHER SHARP EDGES.  
 2. MATERIAL FOR DIMS NO. 1 IS FREE OF:  
 ANY LAMINAR INDICATIONS UNDER ANY HEAT  
 WHICH DIMS OF STRAIGHT BEAM CALIBRATION.  
 3. STEEL STAMP TO BE MADE HEAT NO. AS SHOWN ON DRAWING  
 INDICATED BY DIMENSIONS 1/16" DIA. HOLE.  
 4. SPHERE CENTERING DIMS TO DIMS HOLE AND DEEP DIMS NOTED  
 STEEL STAMP ON HOLE SET AS DIMS HOLE AT DIMS OF DIMS  
 CENTERLINE AS SHOWN, AT 1/16" DIA. HOLE.  
 5. MAKE DIMS HOLE AS DIMS HOLE TO, 0.11 DIA. HOLE, AT DIMS HOLE  
 MATERIAL TO BE SUPPLIED BY  
 DIVISION ENGINEERING AND FABRICATION

SECTION A-A SCALE: N	
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3300-4 3500-5A05-6B R1.1 70-CS-35-51P

SECTION B-B  
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SECTION B-B SCALE: N	
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REVISION	REVISION
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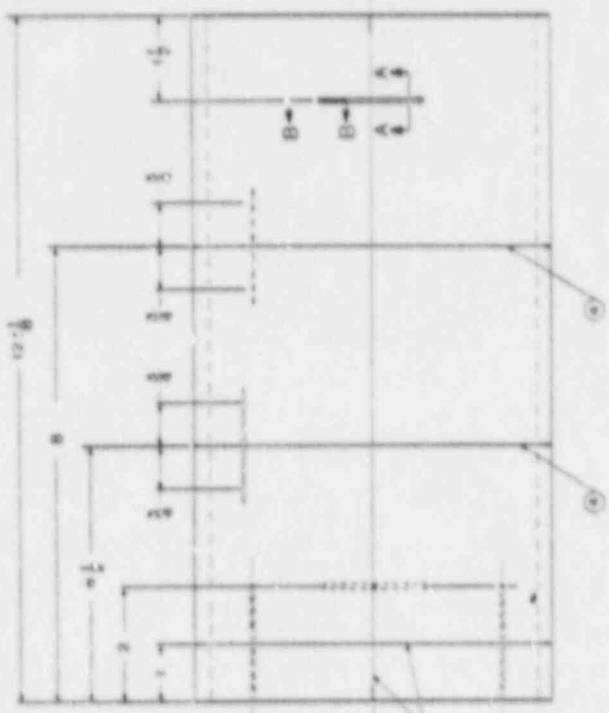
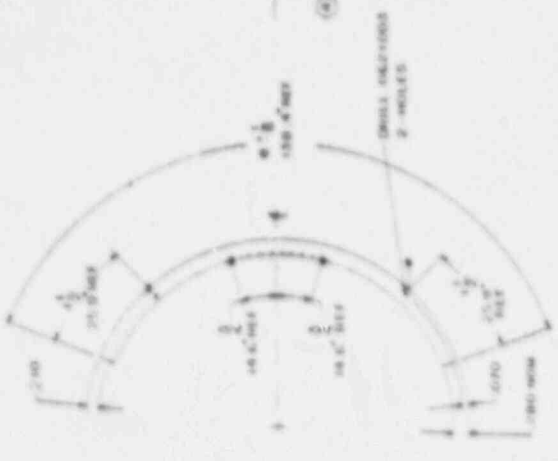


NOTES:

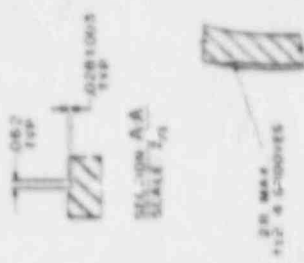
1. DRESS SHARP EDGES AND CORNERS
2. INTERNAL SURFACES MUST BE FINED UP.  
ALL SURFACES MUST BE FINED UP TO A 100 MICRON FINISH.  
ON STEEL, TO SPARK COMPARISON
3. STEEL STAMP TO NO. 4 HEAD AND ON SURFACE SHOWN IN CROSS-SECTION WITH ANGLE
4. SQUARE CENTERLINE TO NO. 4005 WIDE AND DEEP WORKING SURFACE STEEL STAMP ON WALL CUT IN INCHES MARKS AT ENDS OF EACH CENTERLINE 0.750 - 0.750 - 0.750
5. MARKS FROM ABOVE 3. FIRE SURFACES SA312, GR 304 MATERIAL TO BE PROVIDED BY USER.  
SPECIFY TO ALL PRODUCTIONS BY USER.

NO.	REV.	DATE	BY	CHKD.	DESCRIPTION
1					ISSUED FOR FABRICATION
2					ISSUED FOR CALIBRATION
3					ISSUED FOR INSPECTION
4					ISSUED FOR ASSEMBLY
5					ISSUED FOR SHIPPING

2-RHS-218-SA312-GR304-SS-22-STP  
 CALIBRATION BLOCK  
 D-5770-6-28



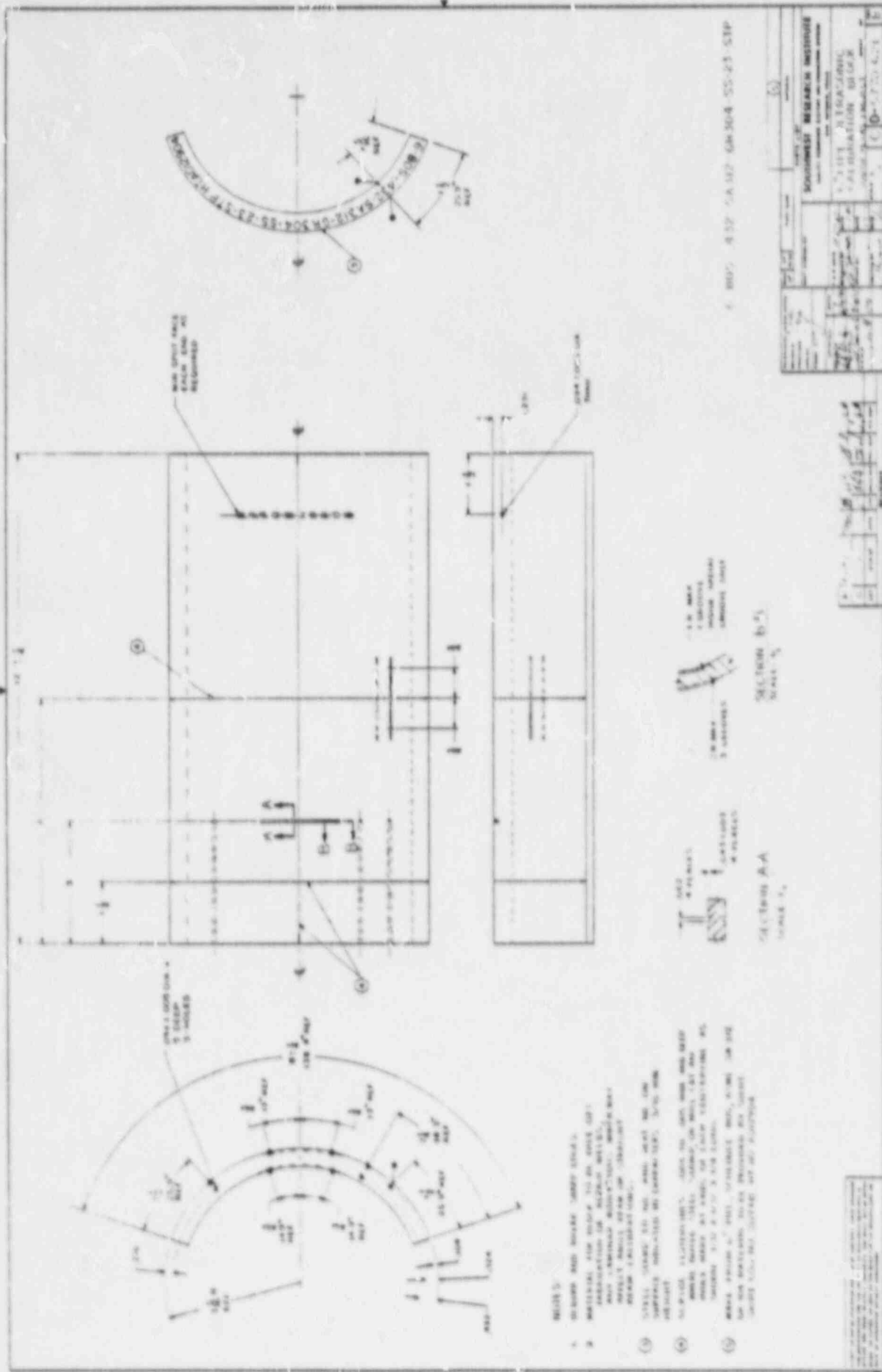
- NOTES:
1. SURFACES AND EDGES SHARP EDGES.
  2. MATERIAL FOR BULK TO BE CONTINUOUSLY EXAMINED IN ACCORDANCE WITH AWS D1.1.
  3. STEEL SHALL BE A36 AND WELD TO BE AS SHOWN ON DRAWING. CHARACTERISTICS OF WELDS SHALL BE AS SHOWN ON DRAWING. CHARACTERISTICS OF WELDS SHALL BE AS SHOWN ON DRAWING.
  4. WELDS SHALL BE FULL PENETRATION AND WELDS SHALL BE FULL PENETRATION AND WELDS SHALL BE FULL PENETRATION.
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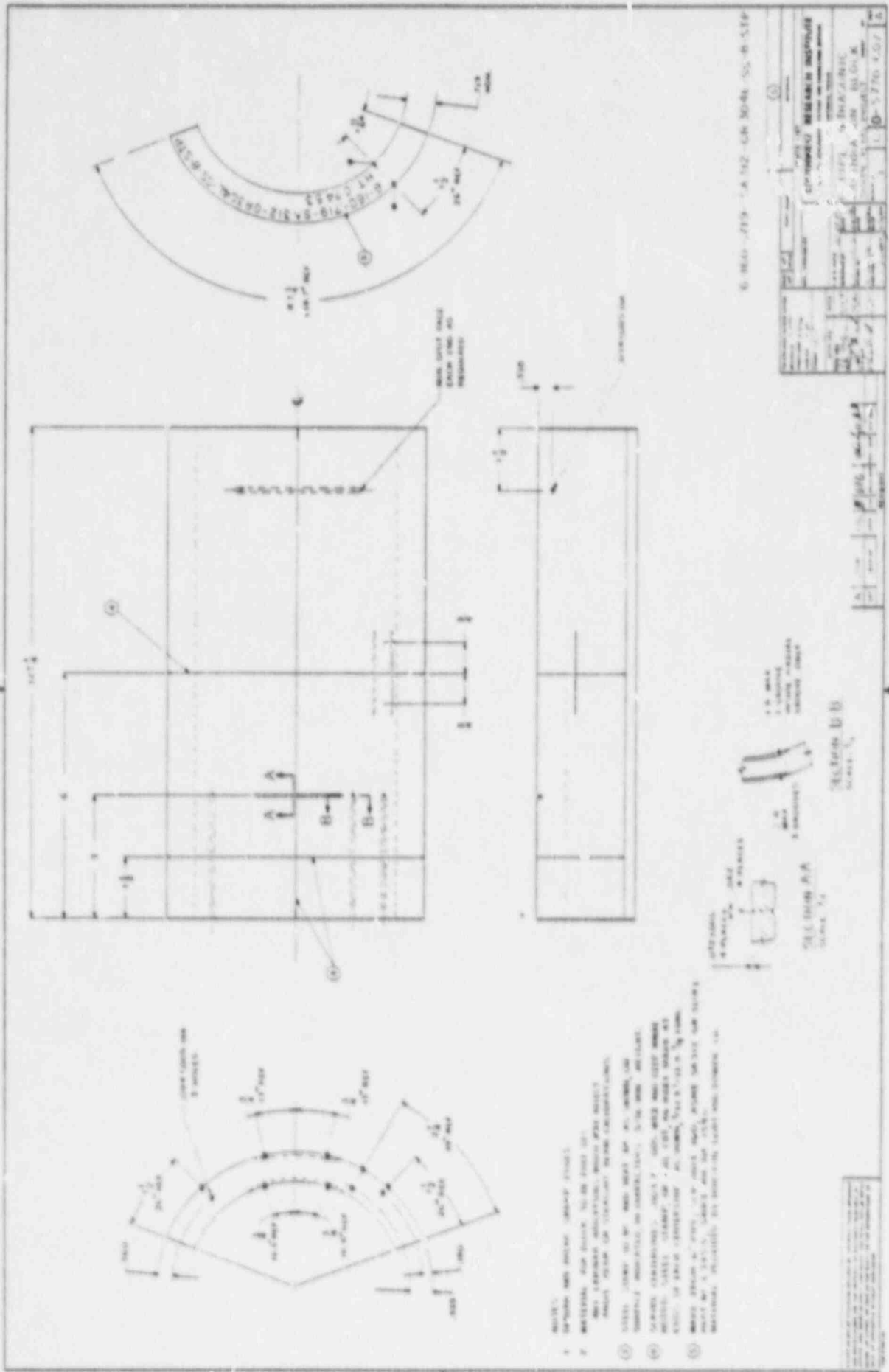


SECTION BB  
SCALE 2/3

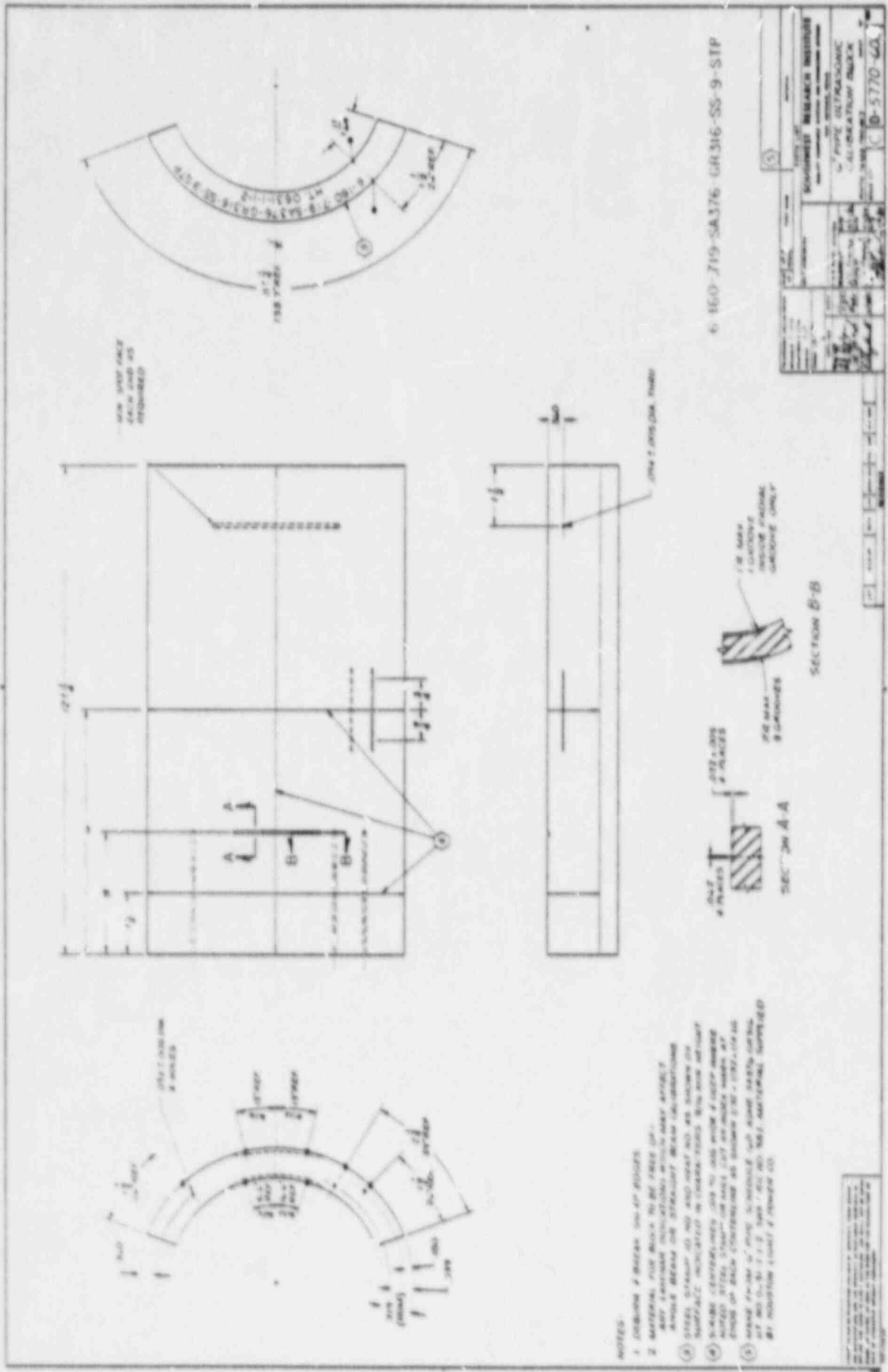
6-415-250-A-VIEW (A-N) 55-875-131

REVISIONS		APPROVED		DATE	
1	AS SHOWN				





- 1. DIMENSIONS AND WEIGHTS SHOWN IN FIGURE 1.
- 2. MATERIALS FOR DIMENSIONS TO BE USED IN FIGURE 1.
- 3. DIMENSIONS AND WEIGHTS SHOWN IN FIGURE 1.
- 4. DIMENSIONS AND WEIGHTS SHOWN IN FIGURE 1.
- 5. DIMENSIONS AND WEIGHTS SHOWN IN FIGURE 1.
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- 10. DIMENSIONS AND WEIGHTS SHOWN IN FIGURE 1.

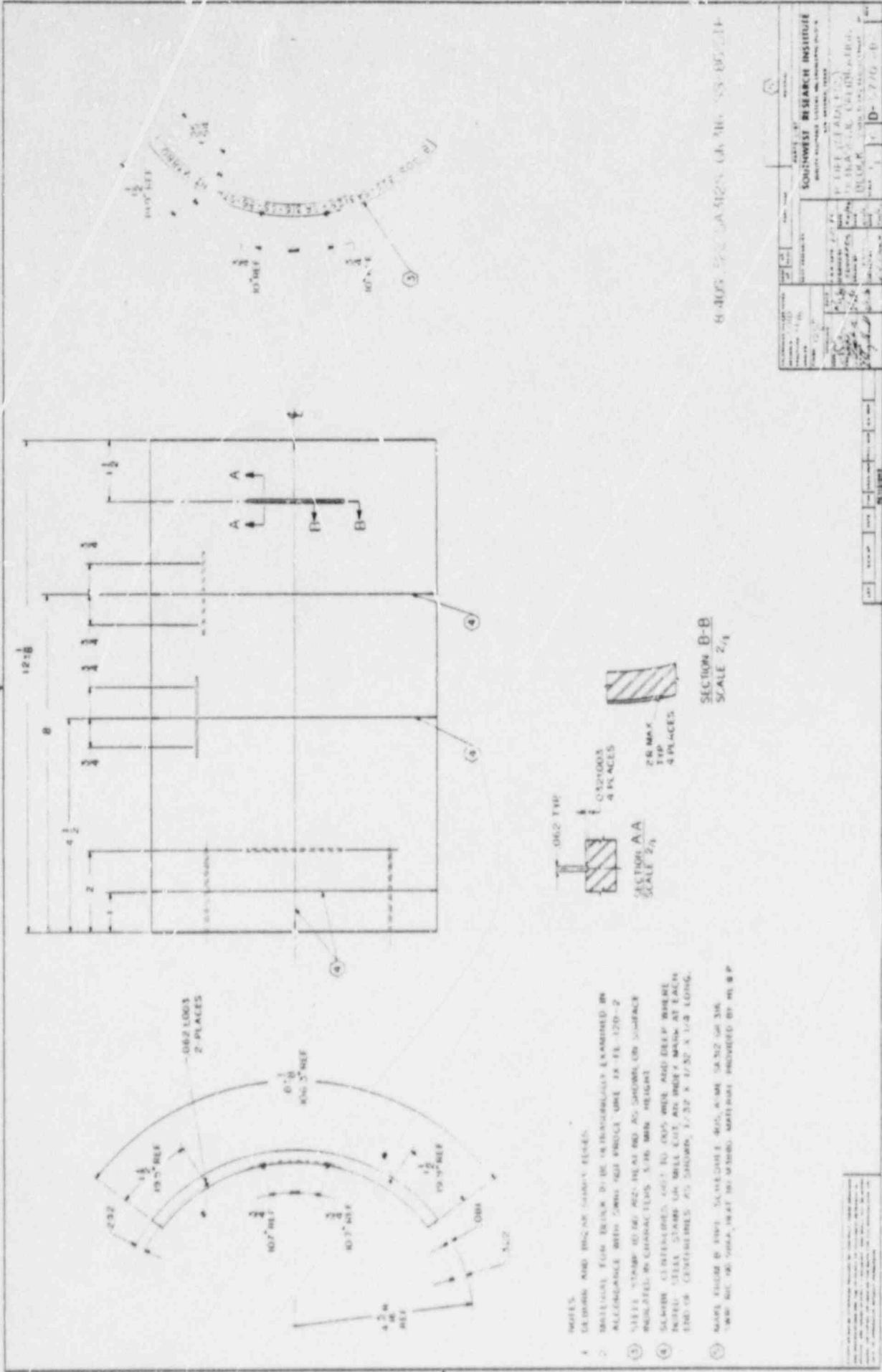


6 150-719-SA376 GR316-SS-9-STP

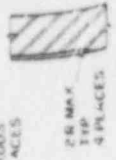
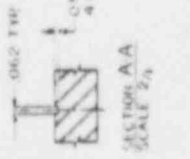
KONIGSBERG RESEARCH INSTITUTE	
PROJECT NO.	6 150-719-SA376
DRAWING NO.	GR316-SS-9-STP
DATE	
BY	
CHECKED BY	
APPROVED BY	
SCALE	AS SHOWN
REVISIONS	
NO.	DESCRIPTION
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- NOTES
1. CORROSION RESISTANT SURFACE FINISH
  2. MATERIAL FOR BULK TO BE 316L SS
  3. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED
  4. SURFACE FINISH TO BE 320 RA UNLESS OTHERWISE SPECIFIED
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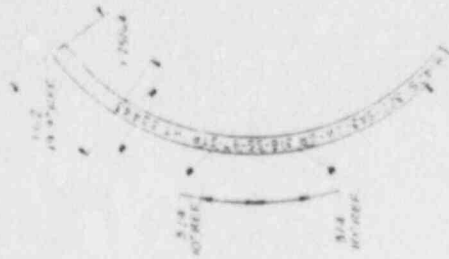
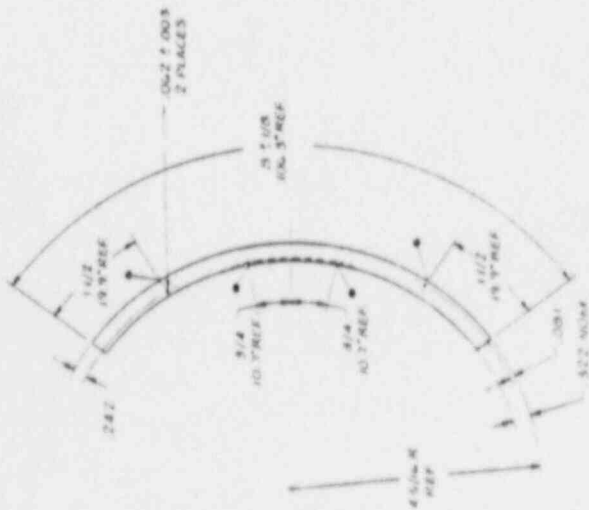
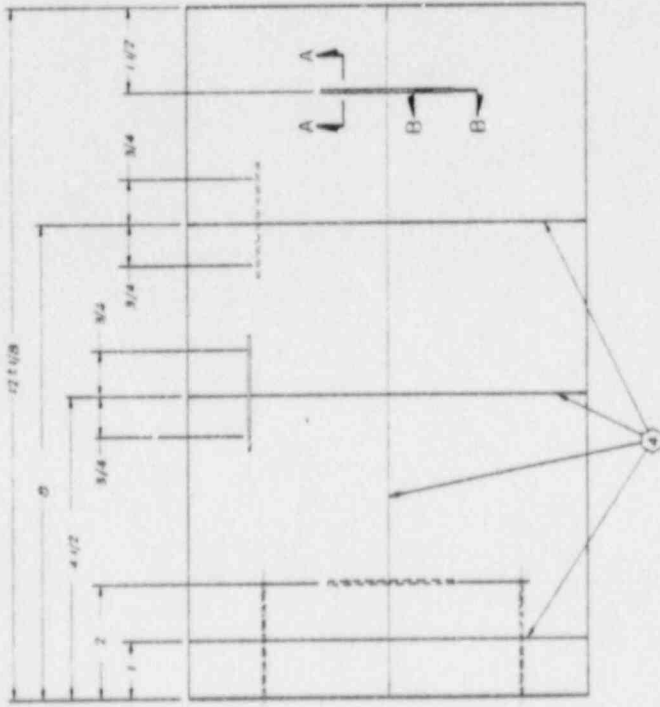
- NOTES
1. DIMENSIONS AND FINISHES SHOWN.
  2. MATERIAL FOR DRAWING TO BE DETERMINED BY EXAMINATION OR ACCORDANCE WITH 5000 PSI PROTECTIVE SHEET FOR 11-120-2.
  3. ALL DIMENSIONS TO BE TO 0.005 UNLESS OTHERWISE SPECIFIED.
  4. SURFACE IDENTIFIERS TO BE TO 0.005 UNLESS OTHERWISE SPECIFIED. IDENTIFIERS TO BE TO 0.005 UNLESS OTHERWISE SPECIFIED.
  5. MARKS TO BE TO 0.005 UNLESS OTHERWISE SPECIFIED.



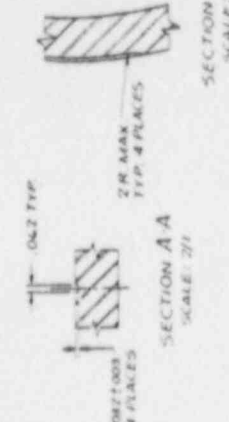
SECTION B-B  
SCALE 2/1

8-405 5000 PSI PROTECTIVE SHEET FOR 11-120-2

PROJECT NO. 11-120-2  
 DRAWING NO. 8-405  
 DATE 11-12-52  
 SOUTHWEST RESEARCH INSTITUTE  
 3501 UNIVERSITY AVENUE, TUCSON, ARIZONA  
 P. LEE FLETCHER, JR.  
 PROJECT ENGINEER  
 W. L. HARRIS  
 DESIGNER  
 D-59



**NOTES:**  
 1. DEFORM AND BEND SHARP EDGES.  
 2. MATERIAL FOR MAIN REE IS TRANSVERSELY FRAGMENTED IN BULGING WITH SURE NOT PROCEEDURE IN FE 102.7  
 3. STEEL STAMP NO. 40 AND HEAT NO. 45 SHOWN ON SURFACE INDICATED, IS CORRECT PER 10% MIN HEIGHT  
 4. REE EXTENDING 205 TO 005 A-2E AND DEEP WEDGE RIPPED STEEL STAMP NO. 40 CUT AS ORDER MAIN AT 7 IN FROM 22 UNSTAMPED AT 100MM 102.7-108 COMB  
 5. MAKE FROM 40 REE, 100MM 102.7, A-2E 5/12, 4E 8-10 100MM 102.7, 50% REE 102.7-108 MATERIAL PROVIDED BY NCCP



PROJECT NO. A 112W GR 16 S. B. 11P

**SOUTHWEST RESEARCH INSTITUTE**  
 600 SOUTH CALIFORNIA AVENUE  
 PASADENA, CALIF. 92386

DATE: 11/17/63

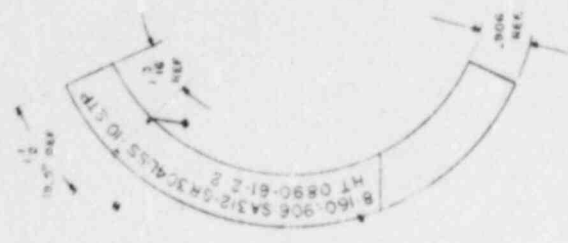
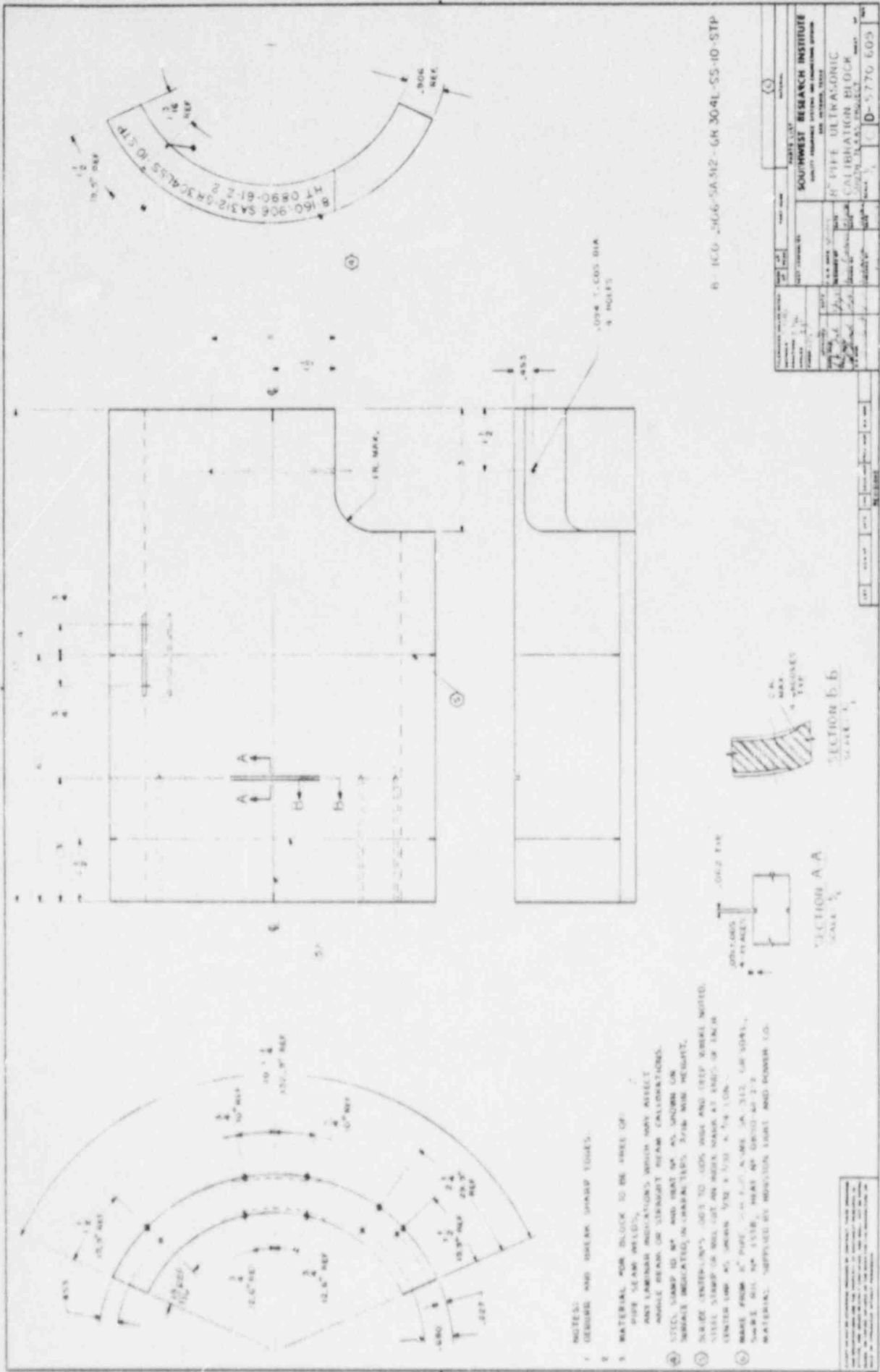
SCALE: 2/1

SECTION B-B

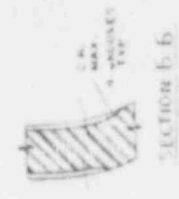
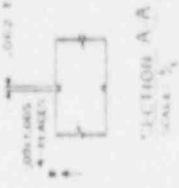
SCALE: 2/1

SECTION A-A

SCALE: 2/1

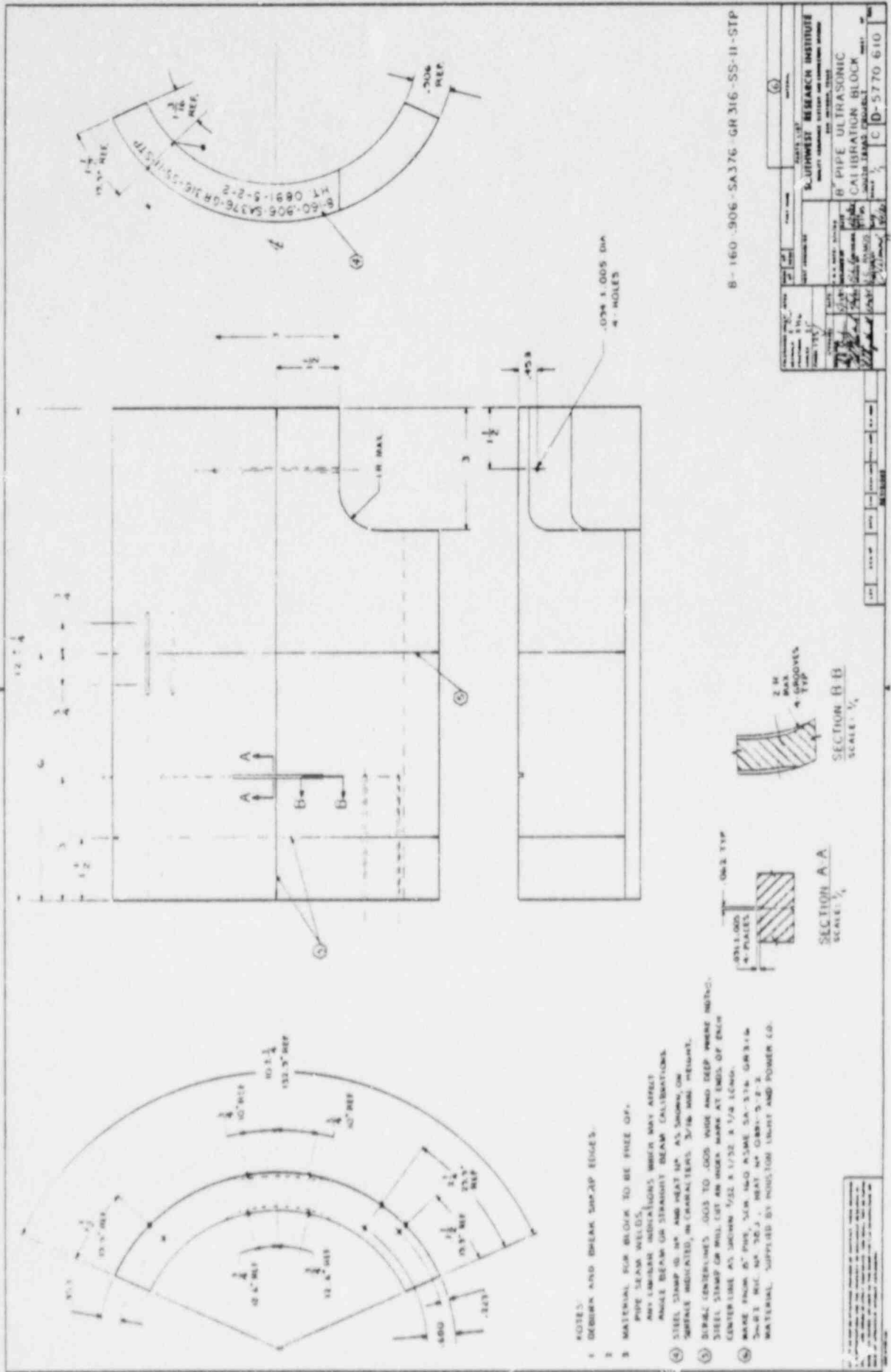


- NOTES:
1. OEROND AND OTHER SHARP EDGES.
  2. MATERIAL FOR BLOC TO BE FREE OF PIPE SEAM DEFECTS.
  3. MATERIAL FOR BLOC TO BE FREE OF PIPE SEAM DEFECTS, WHICH MAY AFFECT SMALL REINS OR STRAIGHT REAM CALCULATIONS.
  4. STEEL SHARP TO 90° AND HEAT AN AN UNDER OR ABOVE INDICATED IN PARAGRAPHS 2, 3, 4 AND 5.
  5. SCALE CENTERLINE'S 1075 TO .005 DIA AND DEEP WHERE NOTED. STEEL SHARP TO 90° AND HEAT AN AN UNDER OR ABOVE INDICATED IN PARAGRAPHS 2, 3, 4 AND 5.
  6. MAKE FROM 6\"/>



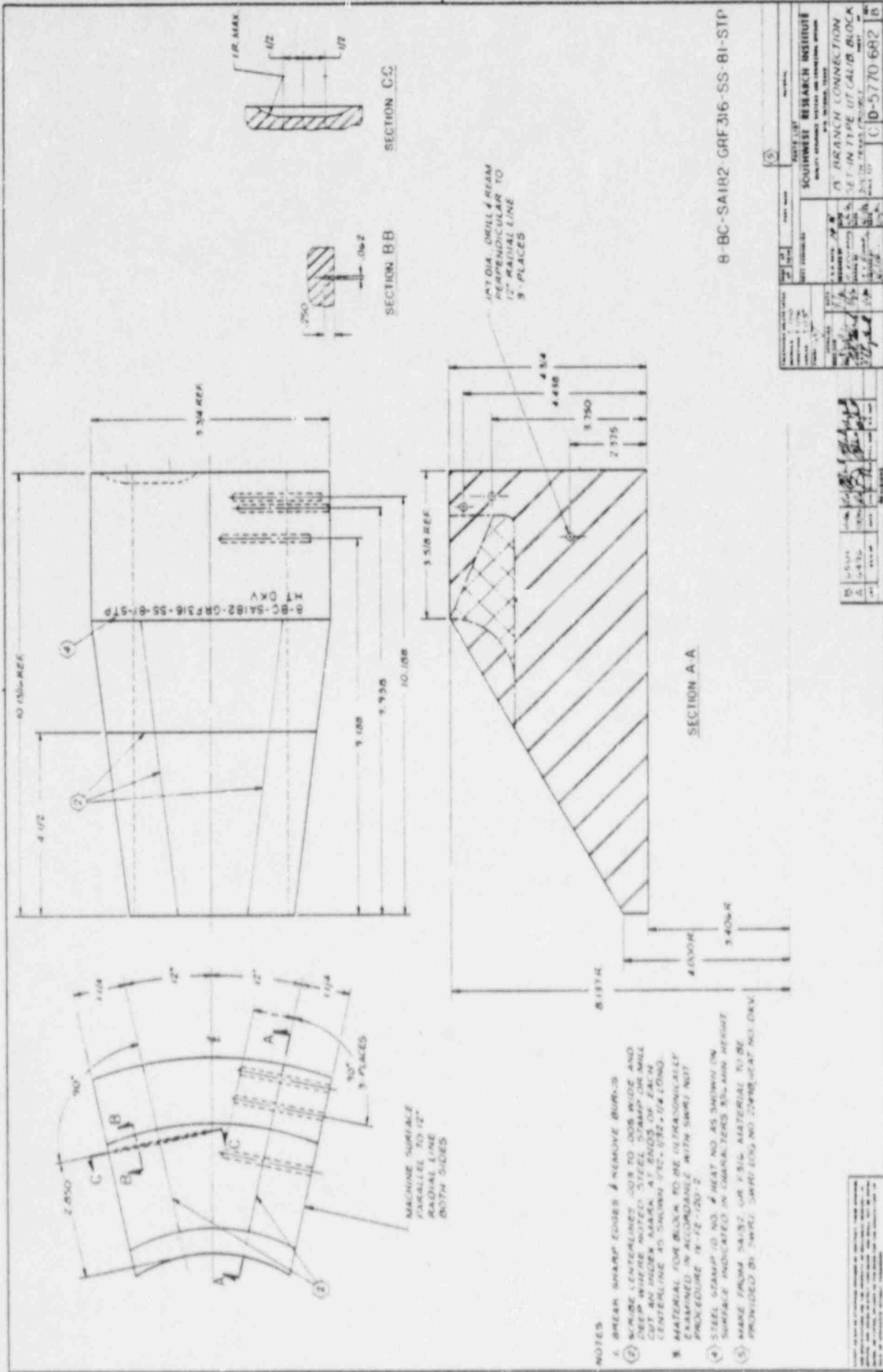
B-100-206-5A312-6N 304L-SS-10-STP

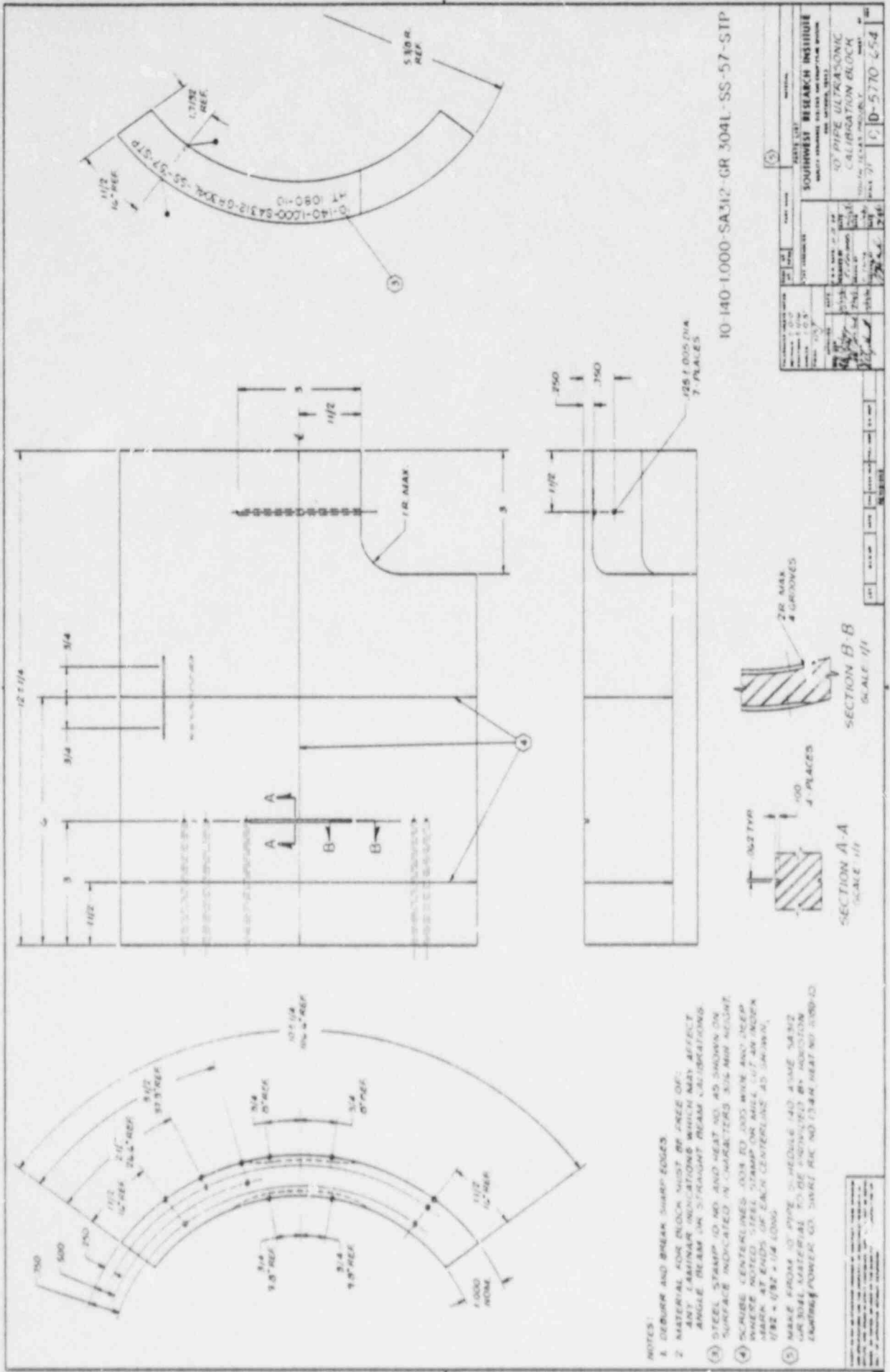
PROJECT		SHEET NO.	
SOUTHWEST RESEARCH INSTITUTE		1075	
CALIFORNIA		1075	
R-PIPE ULTRASONIC CALIBRATION BLOC		1075	
DATE		DATE	
DRAWN BY		CHECKED BY	
SCALE		SCALE	
JOB NO.		JOB NO.	
D-5770-609		D-5770-609	



- NOTE 1: DESIGN AND BREAK SHAP OF EDGES.
- 2: MATERIAL FOR BLOCKS TO BE FREE OF PIPE SEAM DEFECTS, ANY LAMINAR DEFECTS, WHICH MAY AFFECT RANGE BEAM OR STRAIGHT BEAM CALIBRATIONS.
- 3: STEEL STAMP IS IN AND HEAT IS AS SHOWN ON SPECIFIC IDENTIFIED, IN CERTAIN CASES 3/16 INCH HEIGHT.
- 4: BREAK CENTERLINES .003 TO .005 WIDE AND DEEP WHERE MENTIONED.
- 5: STEEL STAMP OR WELD CUT AN MARK MARK AT ENDS OF ENDS CENTERLINE AS SHOWN 1/32 X 1/32 X 1/2 LONG.
- 6: MAKE FROM B' PIPE, NEW OLD AS LIME SA-316 GH 316 2-1/2 IN. WEL. OR 2-1/2 IN. WEL. OR 2-1/2 IN. WEL. OR 2-1/2 IN. WEL. MATERIAL SUPPLIED BY INSULATION UNIT AND POWER CO.

DATE	1/15/68
BY	L. J. JENSEN
CHECKED BY	
APPROVED BY	
SCALE	1/2
L. J. JENSEN RESEARCH INSTITUTE	
B' PIPE ULTRASONIC CALIBRATION BLOCK	
PROJECT NO.	160-306-SA376-GH316-SS-II-STP
REV.	
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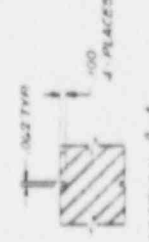
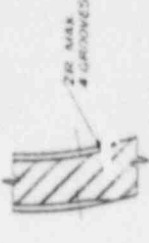


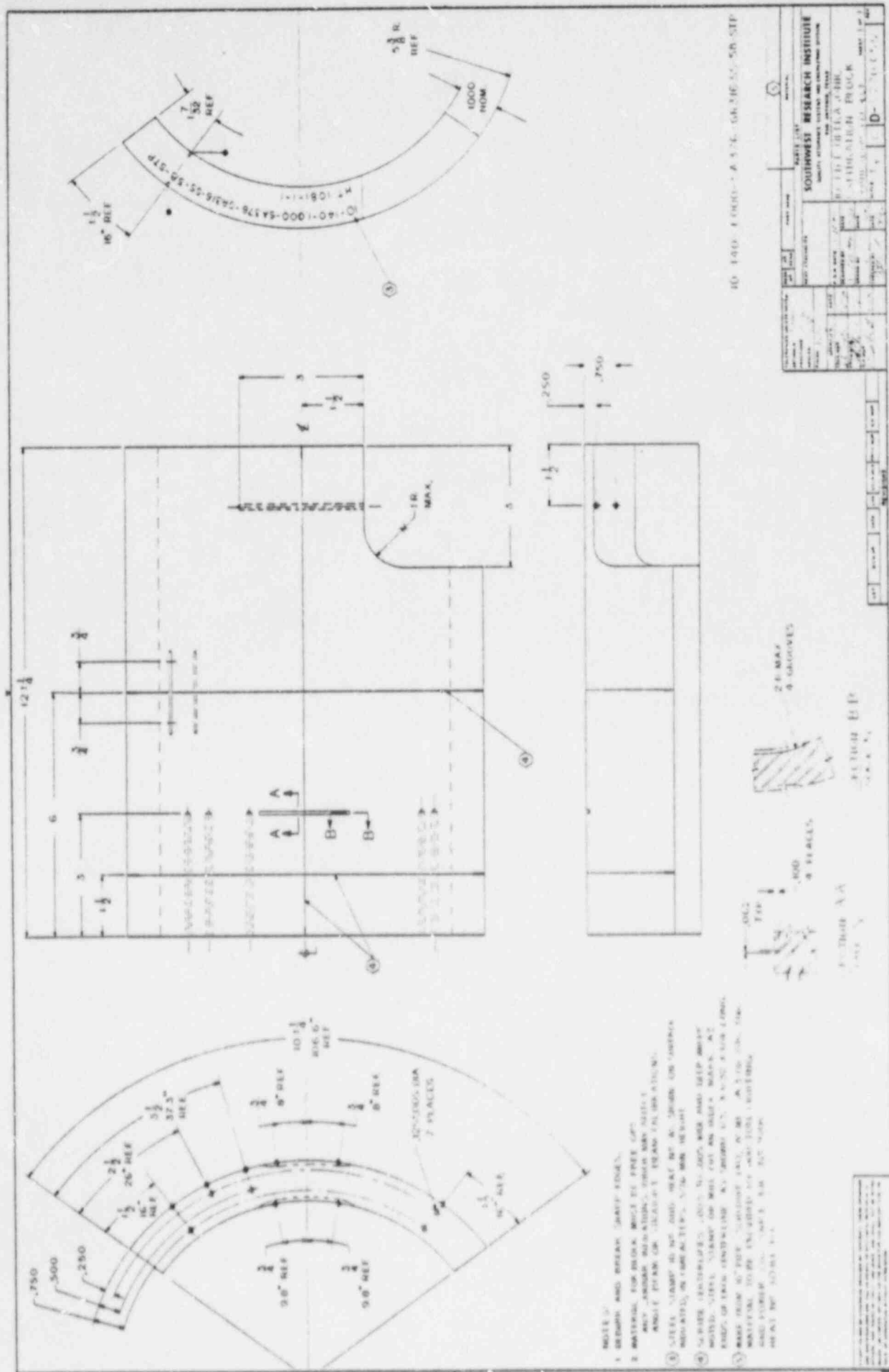
10-140-1000-SA312-GR 304L-SS-57-STP

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10-140-1000-SA312-GR 304L-SS-57-STP

- NOTES:
1. DEBURR AND BREAK SHARP EDGES
  2. MATERIAL AND BLOCK MUST BE FREE OF: ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE BEAM IN STRAIGHT BEAM CALIBRATIONS
  3. STEEL STRAP IS NO. AND HEAT AS SHOWN ON SURFACE INDICATED IN CHARACTERS 304-308 ACCOUNT WHERE CENTERLINES FOR EDGES WERE AND DEEP MARKS AT ENDS OF EACH CENTERLINE AS SHOWN, USE = 0.001 ± 0.0005
  4. MAKE FROM 30 PIPE 5/8" HOLE (40 SAME SIZE 304L MATERIAL TO BE PROVIDED BY ADDITION ENERGY POWER CO. PART NO. 17-84 HEAT NO. 3080-2)

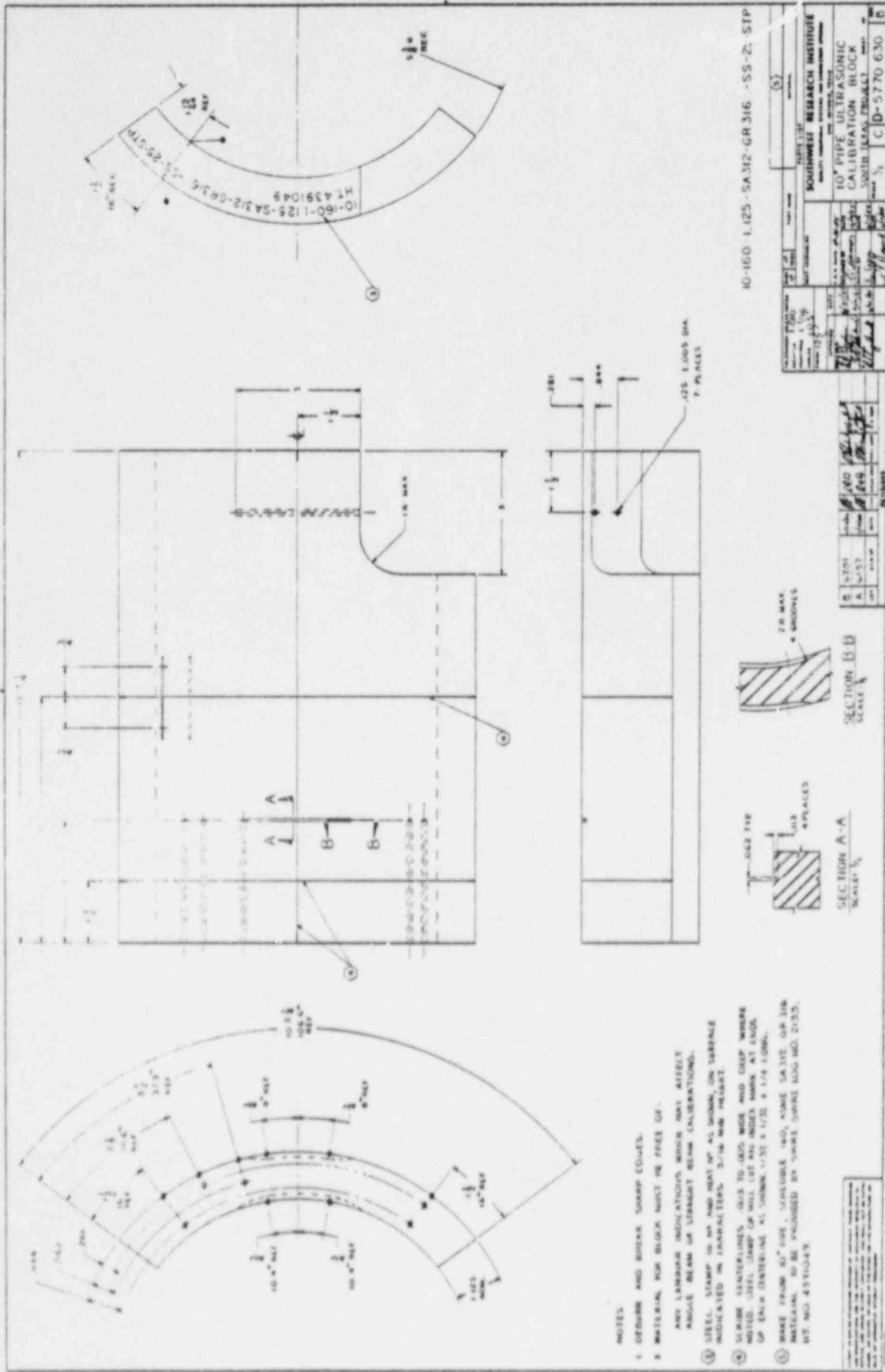




10 140 1 0000 - A 574 - GR. 116.55 - 50 - 51P

PART 2187	
SOUTHWEST RESEARCH INSTITUTE	
MATERIALS SECTION	
DESIGNED BY: [Signature]	
CHECKED BY: [Signature]	
DATE: [Date]	
SCALE: [Scale]	
DRAWN BY: [Signature]	
APPROVED BY: [Signature]	
MATERIAL: [Material]	
FINISH: [Finish]	
TOLERANCES: [Tolerances]	
SURFACE FINISH: [Surface Finish]	
OTHER: [Other]	

- 1 BEHIND AND BEHIND SHARP EDGES.
- 2 MATERIAL FOR BEHIND MUST BE FREE OF ANY "GRIND" OR "BURRS". OTHER SURFACES MUST BE FREE OF "GRIND" OR "BURRS".
- 3 CHAMFER TO BE 1/16" TO 1/8" UNLESS OTHERWISE SPECIFIED.
- 4 CHAMFER TO BE 1/16" TO 1/8" UNLESS OTHERWISE SPECIFIED.
- 5 CHAMFER TO BE 1/16" TO 1/8" UNLESS OTHERWISE SPECIFIED.



- NOTES
1. SURFACE AND BREAK SHARP EDGES.
  2. MATERIAL FOR BLOCK MUST BE FREE OF ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.
  3. STEEL STAMP TO BE AND HEAT TO AS SHOWN ON SURFACE INDICATED IN CHARACTERISTICS 3/16 MAX HEIGHT.
  4. SURFACE CENTRALISES .005 TO .0025 WIDE AND DEEP WHERE NOTED. STEEL STAMP OR WALL (SET HAS INDEX MARK AT ENDS. GP ENDS CENTRALISE AT SHOWN 1/32 X 1/32 X 1/8 LONG.
  5. MAKE FROM 67 PIPE, SCHEDULE 40, NAME SA312, GP 104 MATERIAL TO BE PROVIDED BY SHARP, DOWRI LOG NO. 2155, HT. NO. 451049.

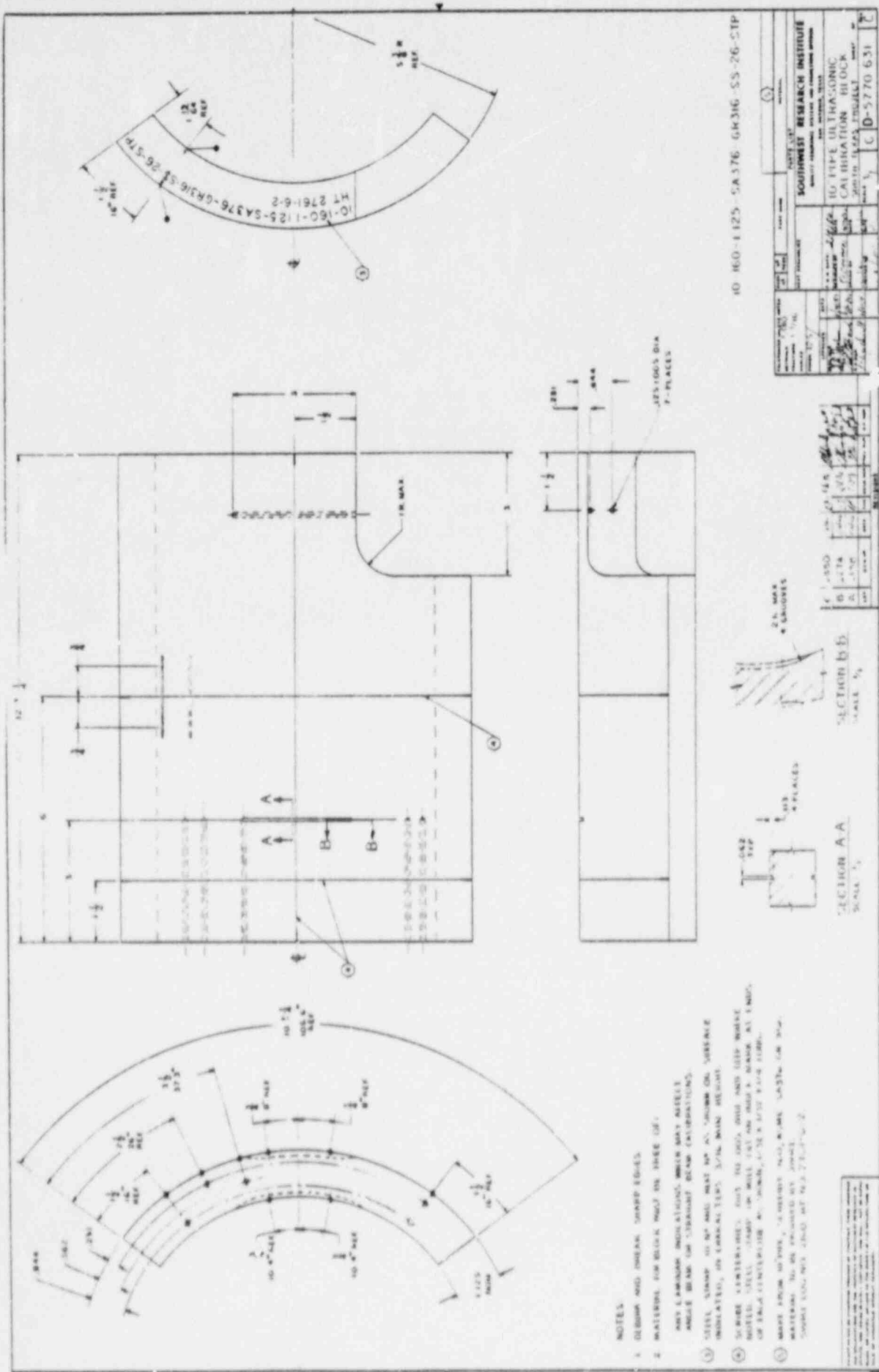
10-160-1.125-SA312-GR316-SS-2-STP

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SECTION A-A  
SCALE 1/2"

SECTION B-B  
SCALE 1/2"





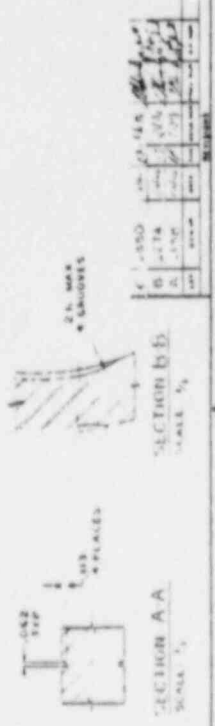
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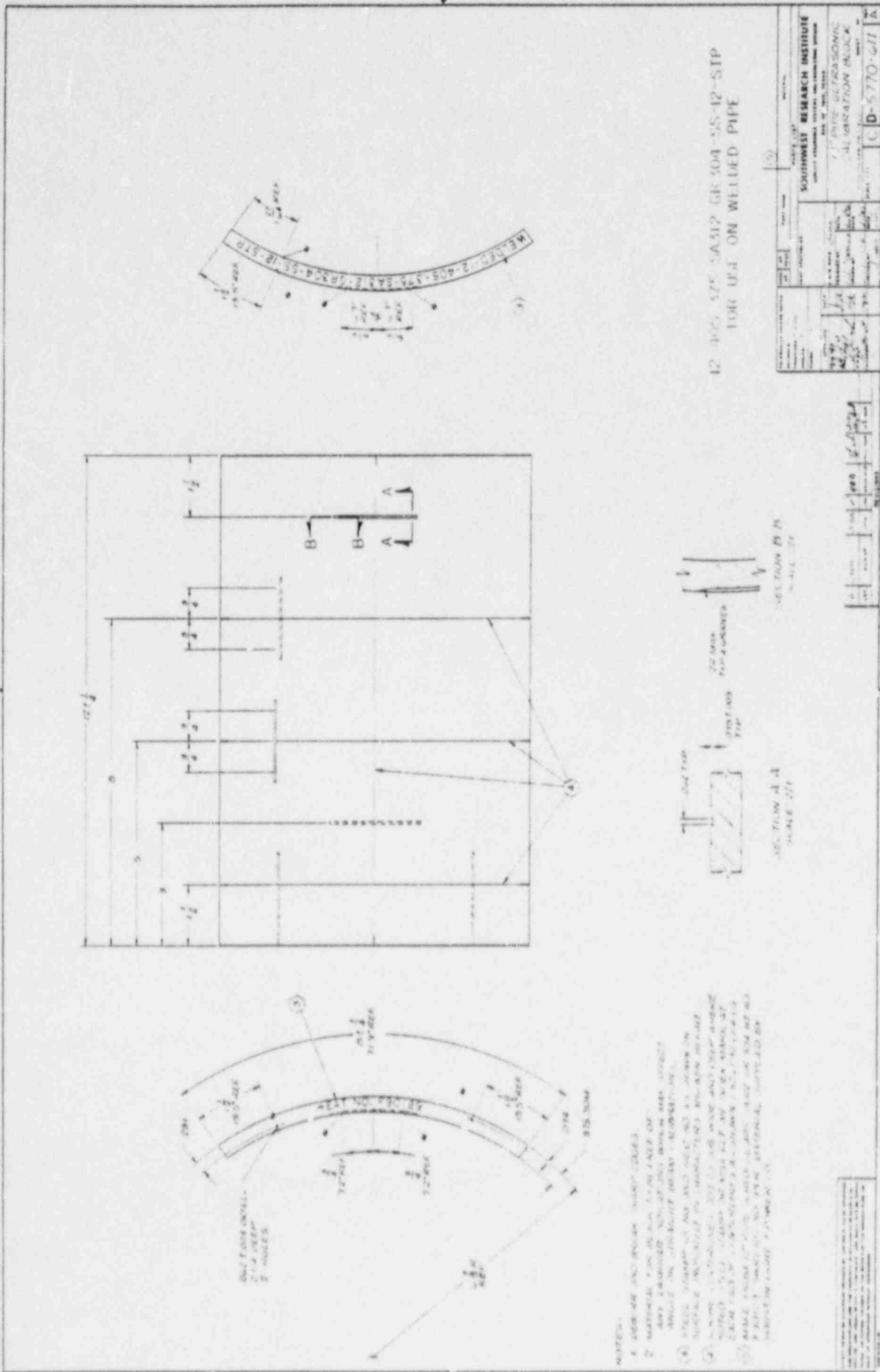
1. DESIGN AND DRAWING SHARP EDGES.
2. MATERIALS FOR BLOCK MUST BE FREE OF ANY LAMINAR DISCONTINUITIES UNDER ANY STRESS APPLIED DURING OR THROUGHOUT BOND OPERATIONS.
3. GIBBS STAMP TO BE AND MUST BE AT 1/16" FROM OR, VERBALLY INDICATED, ON CORNER TOP, 1/16" FROM BEARING.
4. TO BE VERIFIED ONLY TO 1/16" AND LIP MUST BE FILED. GIBBS STAMP ON WALL CAN ONLY BE MARK AT 1/16" OF FROM CENTERLINE OF CORNER TOP, 1/16" FROM BEARING.
5. MADE FROM 1018, 1/16" GIBBS STAMP, 1/16" FROM OR TOP.
6. SOURCE FOR 1018, 1/16" GIBBS STAMP, 1/16" FROM OR TOP.

10 160-1125-5A376-64316-55-26-STP

REV	DATE	BY	CHK	DESCRIPTION
1				

PROJECT SOUTHWEST RESEARCH INSTITUTE 3000 UNIVERSITY AVENUE SANTA MONICA, CALIF.	
TITLE 10 PIPE ULTRA-SONIC CALIBRATION BLOCK	DRAWN BY DATE
CHECKED BY DATE	SCALE 1" = 1"
APPROVED BY DATE	PART NO. 10-160-1125-5A376-64316-55-26-STP
QUANTITY 1	C D-5770 631

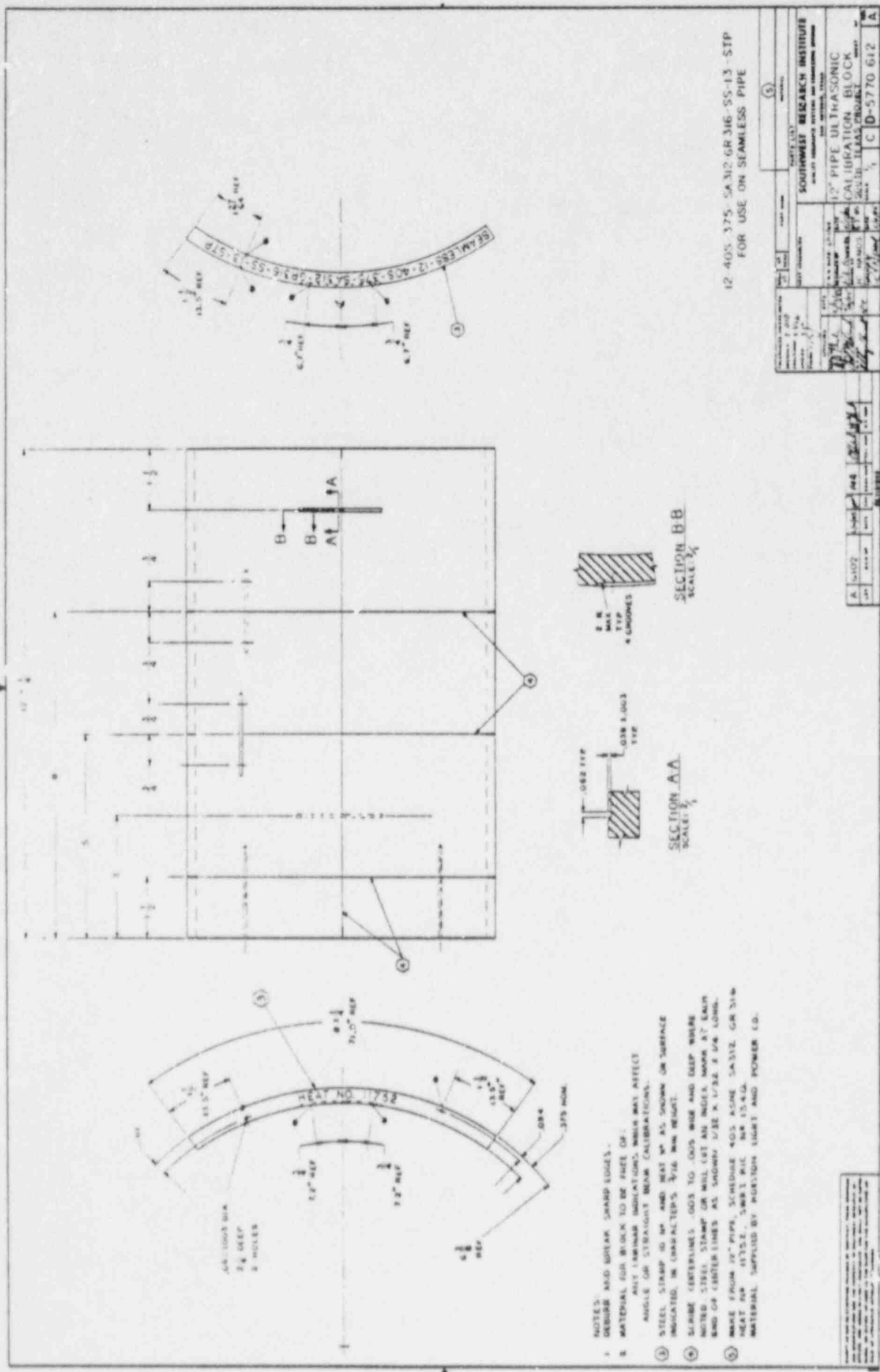




12-304-575-GR304-55-1/2-STP  
FOR U.F. ON WELDED PIPE

SOUTHWEST RESEARCH INSTITUTE 11711 FIVE CULVERSONS ALBUQUERQUE, NEW MEXICO 87113	
PROJECT NO. 12-304-575-GR304-55-1/2-STP	DRAWING NO. D-5770-011
DATE 12/15/68	SCALE 1/2" = 1'-0"
DESIGNED BY [Signature]	CHECKED BY [Signature]
DRAWN BY [Signature]	APPROVED BY [Signature]

- NOTES:
1. REFER TO DRAWING 12-304-575-GR304-55-1/2-STP FOR U.F. ON WELDED PIPE.
  2. MATERIAL FOR U.F. IS 1/2" DIA. 304 STAINLESS STEEL.
  3. WELD METAL IS 304 STAINLESS STEEL.
  4. WELD METAL IS 304 STAINLESS STEEL.
  5. WELD METAL IS 304 STAINLESS STEEL.
  6. WELD METAL IS 304 STAINLESS STEEL.
  7. WELD METAL IS 304 STAINLESS STEEL.
  8. WELD METAL IS 304 STAINLESS STEEL.



12 405 375 SA 312 GR 316 SS-13 -STP  
FOR USE ON SEAMLESS PIPE

PART LIST		QUANTITY	
1	12 405 375 SA 312 GR 316 SS-13 -STP	1	
SOUTHWEST RESEARCH INSTITUTE			
1575 UNIVERSITY AVENUE, DENVER, COLORADO 80202			
12" PIPE ULTRASONIC CALIBRATION BLOCK			
C D-5770 612			

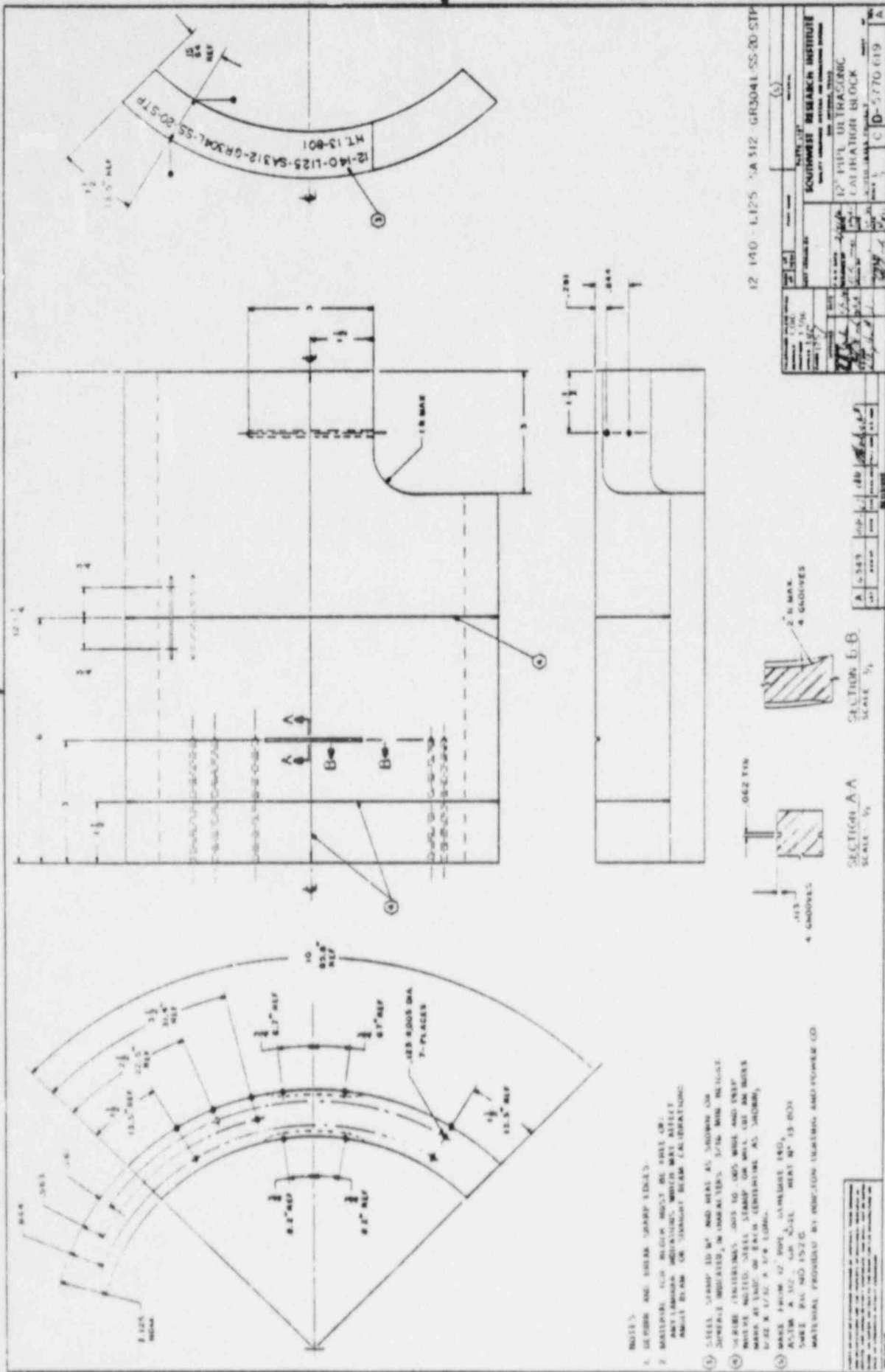
- NOTES:
- 1 DEGREE AND SHARP EDGES.
  - 2 MATERIAL TO BE CHECKED TO BE FREE OF ALL SURFACE DEFECTS. SURFACE DEFECTS MAY AFFECT RESULTS OF STRAIGHT BEAM CALIBRATIONS.
  - 3 STEEL STRIP IS 1/4" AND NET Wt AS SHOWN ON SURFACE INDICATED IN CORNER'S 1/16" MIN HEIGHT.
  - 4 SCRIBE CENTERLINES .003 TO .005 WIDE AND DEEP WHILE NETTED STEEL STRIP OR MILL LET AN INCH, MARK AT EACH END OF CENTERLINES AS SHOWN 1/32 X 1/32 X 1/4 LONG.
  - 5 MADE FROM 12" PIPE, SCHEDULE 40S ASME SA312 GR 316 NET Wt .152 LB, SWEET RIC BK 15.4 G. MATERIAL SUPPLIED BY HORIZON LIGHT AND POWER CO.



SECTION BB  
SCALE 1/2"



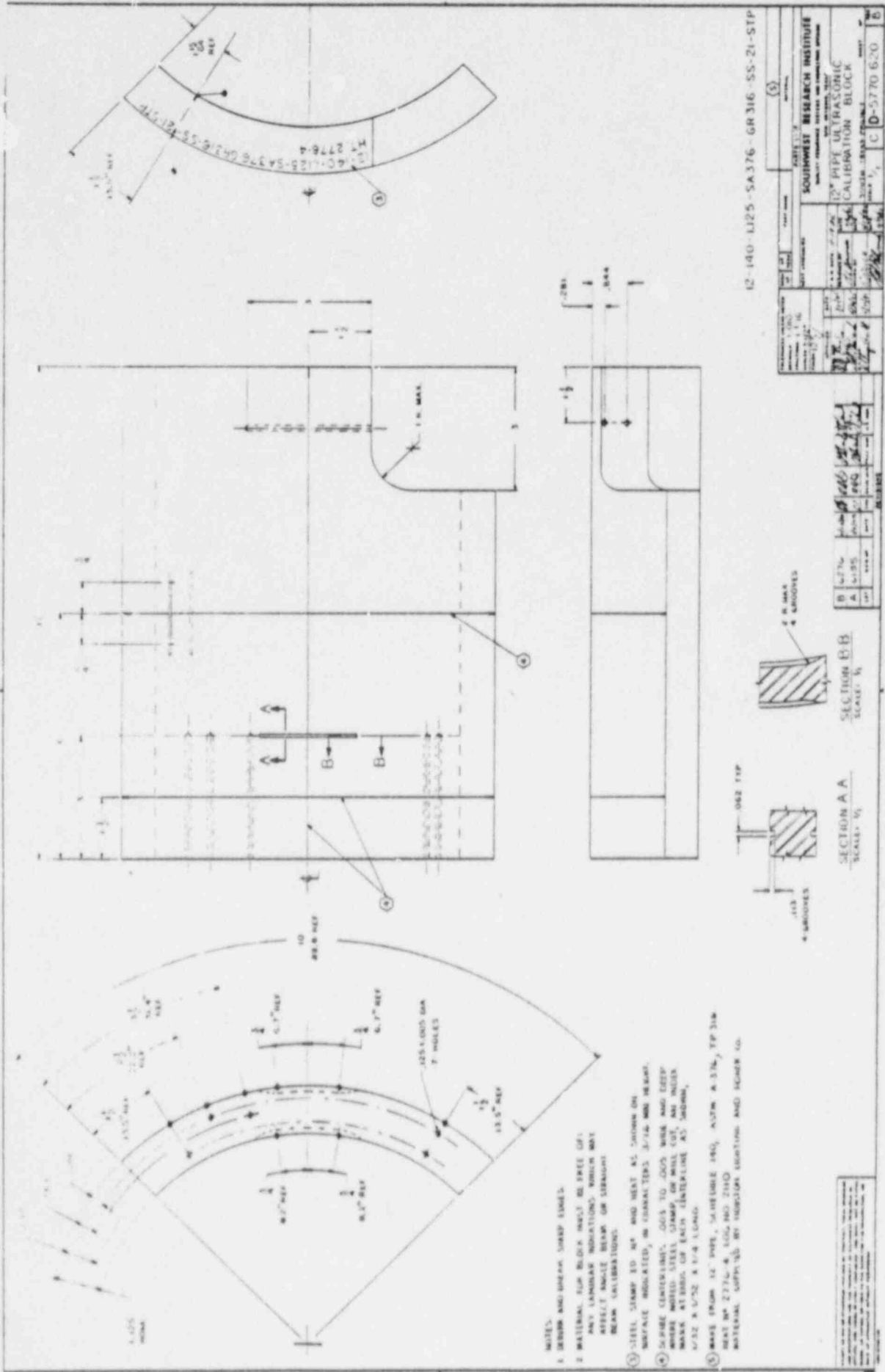
SECTION AA  
SCALE 1/2"



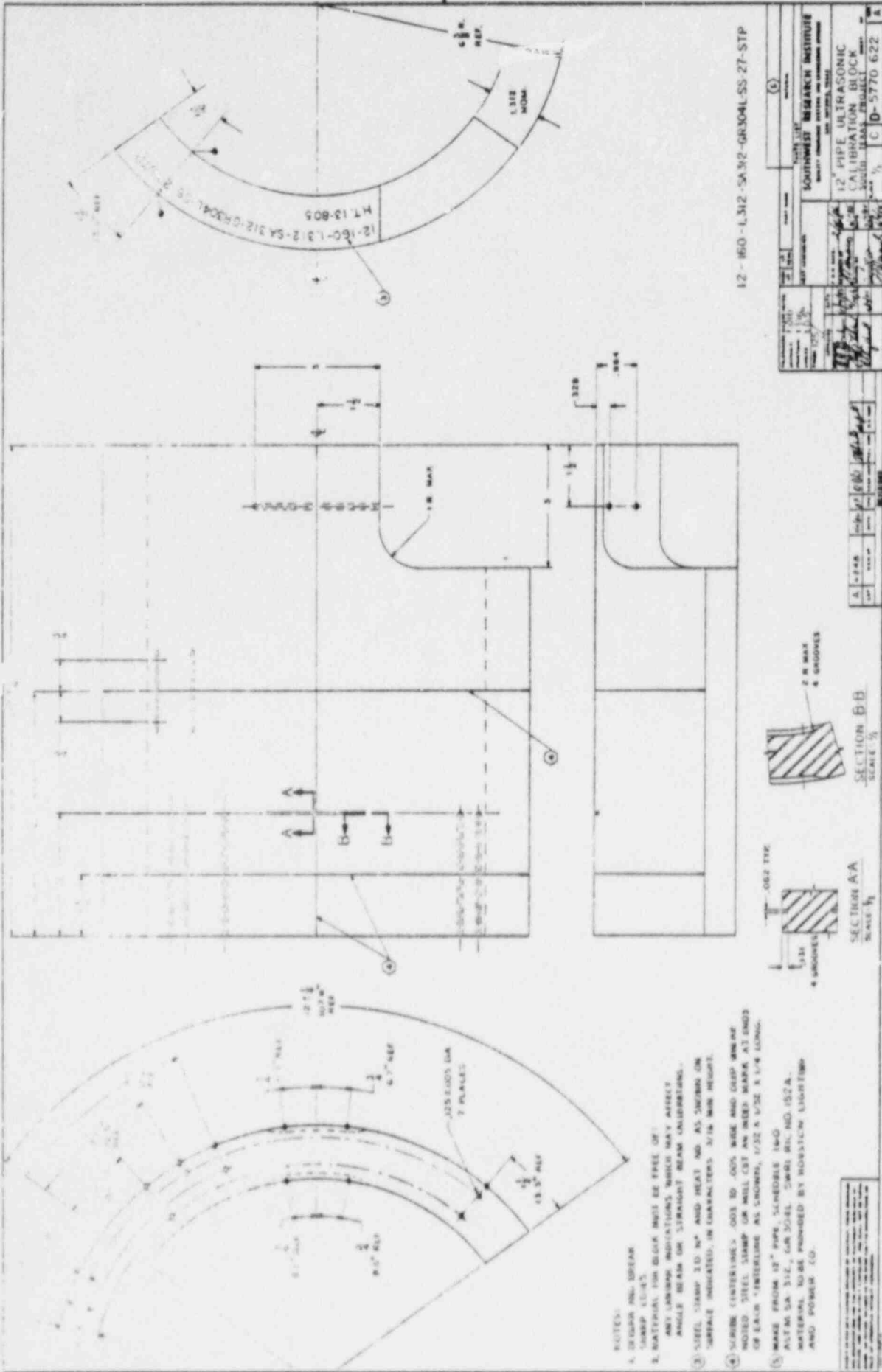
- NOTES:
1. DIMENSIONS AND TOLERANCES SHOWN ARE UNLESS OTHERWISE SPECIFIED.
  2. MATERIALS FOR DIMENSIONS MUST BE FREE OF ANY LAMINAR DEFECTS WHICH MAY AFFECT ANALYSIS OF THE STRESS DISTRIBUTION.
  3. STEEL STAMP IS 1/2" AND MUST BE SHOWN ON SURFACE INDICATING THE CORRELATION OF THE STAMP TO THE DIMENSIONS.
  4. THE MATERIAL SHALL BE STAMPED ON BOTH SIDES WITH A 1/2" OR 1/4" CENTERLINE AS SHOWN, 1/2" X 1/2" X 1/4" TYP.
  5. MARK FROM 1/2" MUST BE SHOWN ON SURFACE AS SHOWN IN DRAWING.
  6. MARK FROM 1/2" MUST BE SHOWN ON SURFACE AS SHOWN IN DRAWING.

12-140-1125 SA 312 GR304L SS 20-STP

DATE	12/15/54	BY	J. H. HARRIS
DESIGNED BY	J. H. HARRIS	CHECKED BY	J. H. HARRIS
APPROVED BY	J. H. HARRIS	DATE	12/15/54
SOUTHWEST RESEARCH INSTITUTE			
12" PUPIL ULTRASONIC CALIBRATION BLOCK			
SCALE	AS SHOWN	FIG. NO.	D-770 (19)



- NOTES:**
1. DRAWING AND DIMENSIONS SHOWN SHOWN.
  2. MATERIAL FOR BLOCK MUST BE FREE OF ANY LAMINAR INDICATIONS WHICH MAY AFFECT WAVE BEHAVIOR OR STRAIGHT BEAM CHARACTERISTICS.
  3. STEEL STAMP TO #4 AND HEAT AS SHOWN ON SURFACE INDICATED, NO CHARACTERISTICS 3-1/4" MAX HEIGHT.
  4. SURFACE CENTERLINE .005 TO .008 WAVE AND DEEP WAVE WEDGED STEEL STAMP, ON WALL CUT, AND MILLER MARK STUDIOS OF EACH INDENTURE AS SHOWN, 3/32" X 1/32" X 1/4" LONG.
  5. MADE FROM 12" PIPE, SA376 (A50), ASTM A 316, TP 316 HEAT # 2276-A, 6202 AND 2140 MATERIAL SUPPLIED BY HOBASCO STEELING AND SCHEM CO.

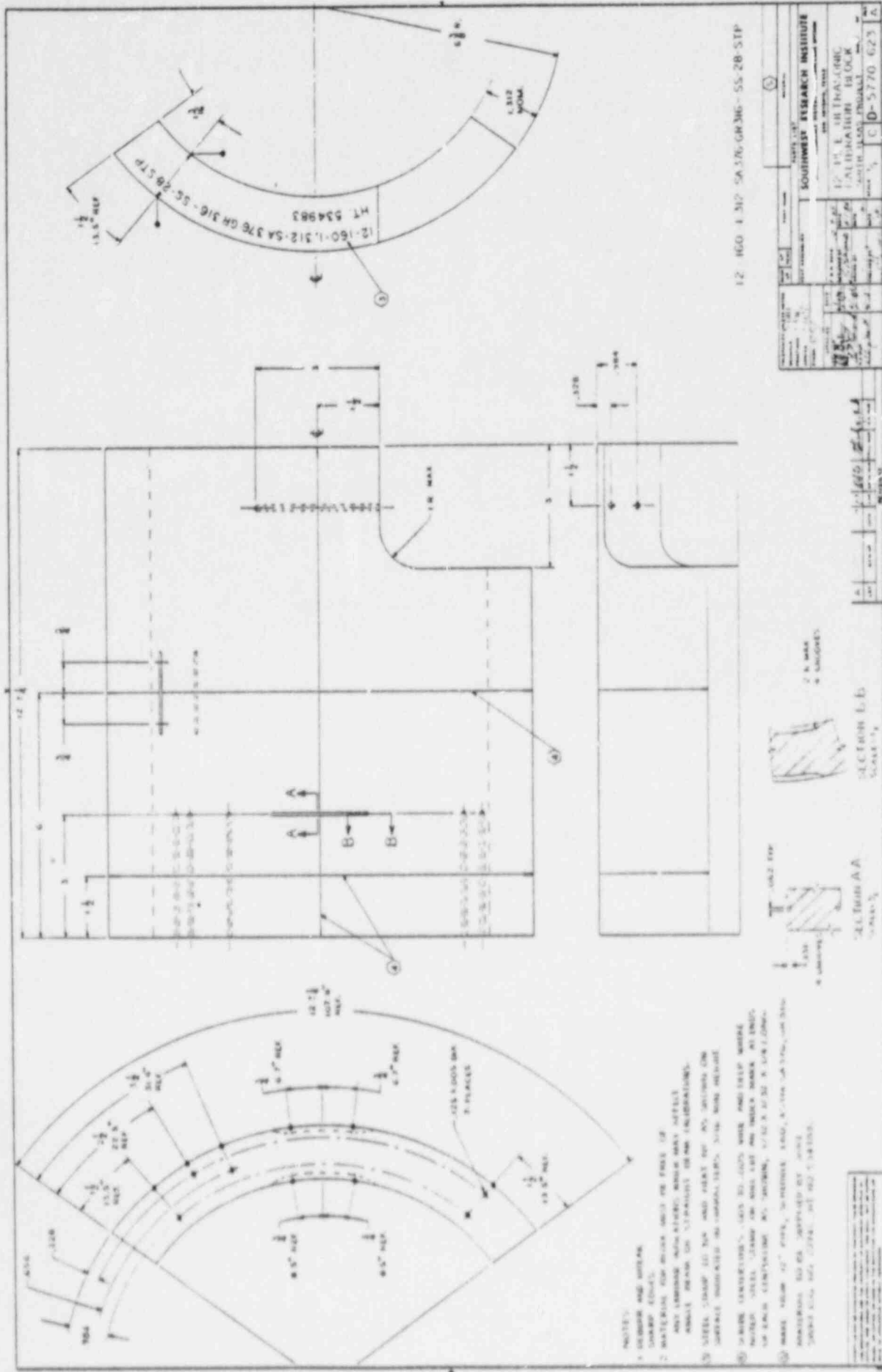


- NOTES:**
1. DESIGN AND DRAWING TO BE FREE OF MATERIAL FOR DESIGN BEING FREE OF ANY DIMENSIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATION.
  2. STEEL SHARP 3.0 IN. AND HEAT NO. AS SHOWN ON SURFACE INDICATED IN DIMENSIONS 3/16 MIN HEIGHT.
  3. SCRIBE (CENTERLINE) .003 TO .005 WIDE AND DEEP AND NOTED STEEL SHARP OR MILL CUT AN INCH MARK AT END OF EACH CENTERLINE AS SHOWN, 1/32 X 1/32 X 1/4 LONG.
  4. MAKE FROM 12" PIPE, SCHEDULE 160 ASTM SA 312, GR 5041, S481 REC. NO. 152A. MATERIAL TO BE PROVIDED BY HOUSTON LIGHTING AND POWER CO.

12 - 160 - 1.312 - SA 312 - GR 5041 - SS 27 - STP

SOUTHWEST RESEARCH INSTITUTE	
12" PIPE ULTRASONIC CALIBRATION BLOCK	
PROJECT NO.	D-5770 622
DATE	
BY	
CHECKED BY	
APPROVED BY	

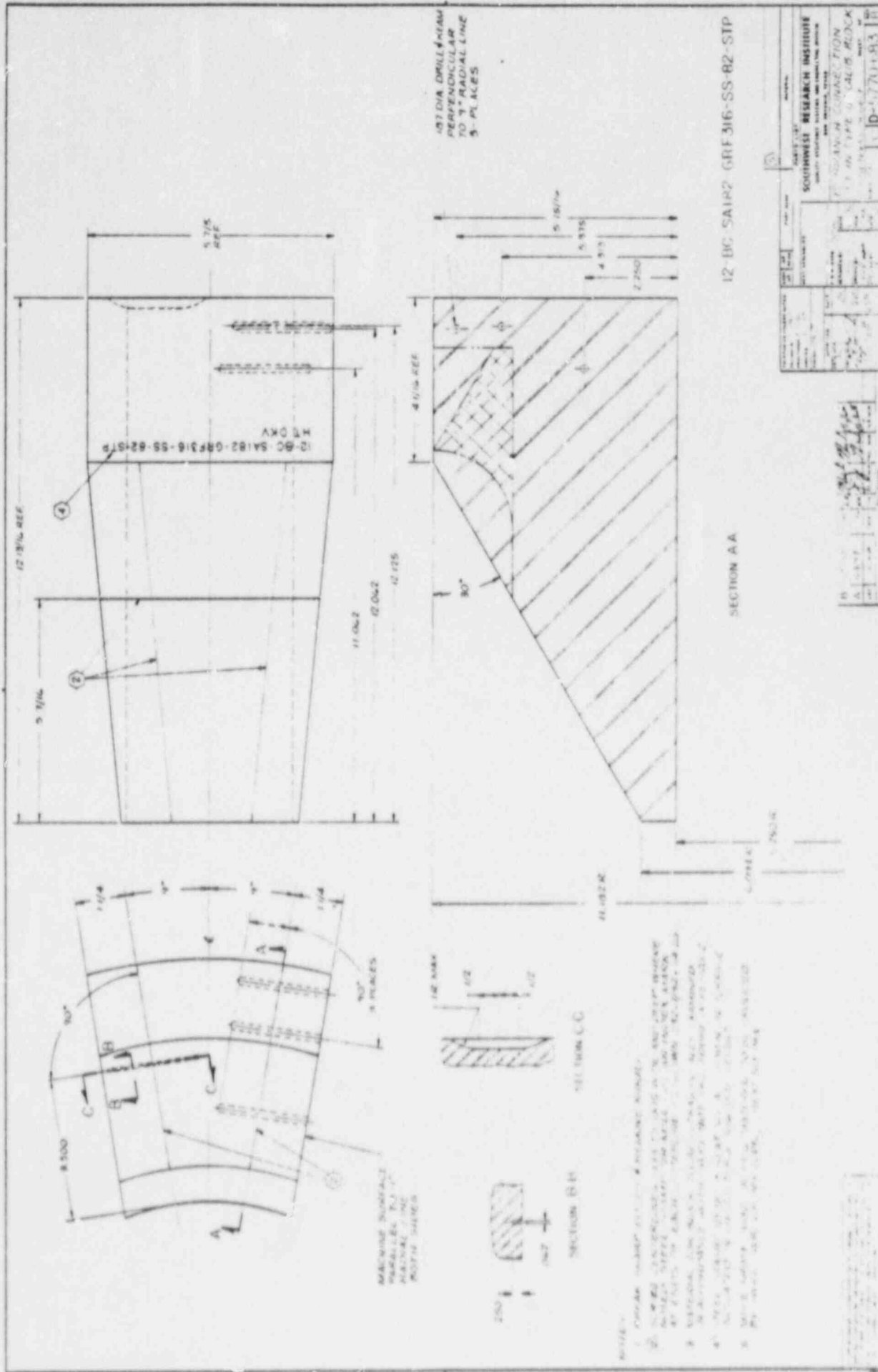
SECTION AA	
SCALE 1/4"	
SECTION BB	
SCALE 1/4"	



12-160-1.312-SA 378 GM 316-SS-2B-5TP

PROJECT NO.	12-160-1.312-SA 378 GM 316-SS-2B-5TP
DATE	12-160-1.312-SA 378 GM 316-SS-2B-5TP
DESIGNED BY	12-160-1.312-SA 378 GM 316-SS-2B-5TP
CHECKED BY	12-160-1.312-SA 378 GM 316-SS-2B-5TP
APPROVED BY	12-160-1.312-SA 378 GM 316-SS-2B-5TP
DATE	12-160-1.312-SA 378 GM 316-SS-2B-5TP

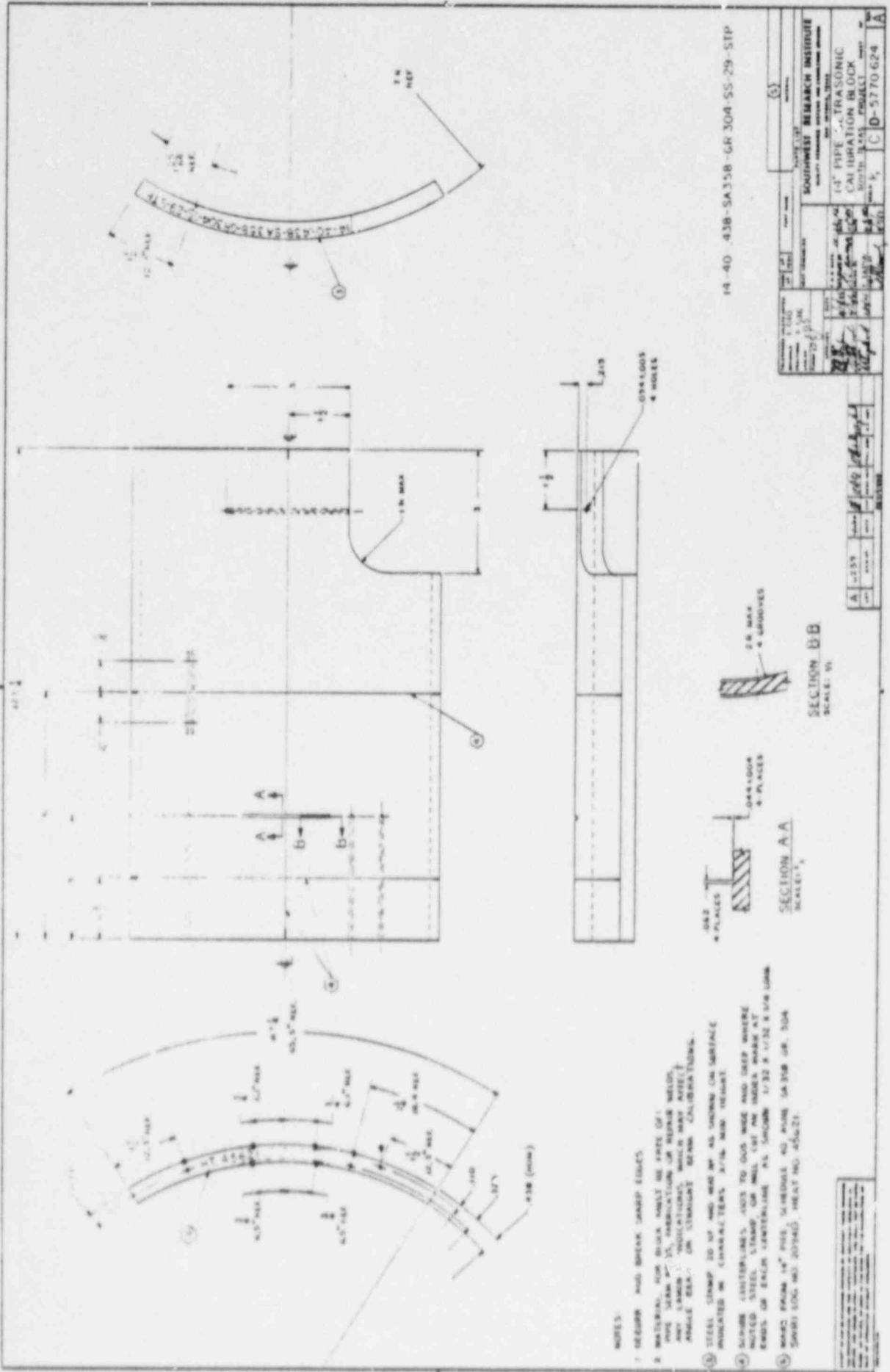
SOUTHWEST RESEARCH INSTITUTE  
 1705 AVENUE OF THE SCIENCES  
 TULSA, OKLAHOMA 74114  
 C 0-5770 623 1A



12-BC SAIR2 GRF 316-SS-R2-STP

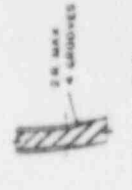
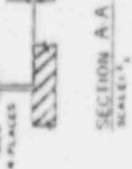
SOUTHWEST RESEARCH INSTITUTE	
PROJECT NO.	12-BC SAIR2 GRF 316-SS-R2-STP
DATE	12-17-53
DESIGNER	W. H. WILSON
CHECKED	J. H. WILSON
APPROVED	
BY	
TITLE	12-BC SAIR2 GRF 316-SS-R2-STP
SCALE	AS SHOWN
MATERIAL	316-SS
QUANTITY	1
REVISIONS	
D-74	





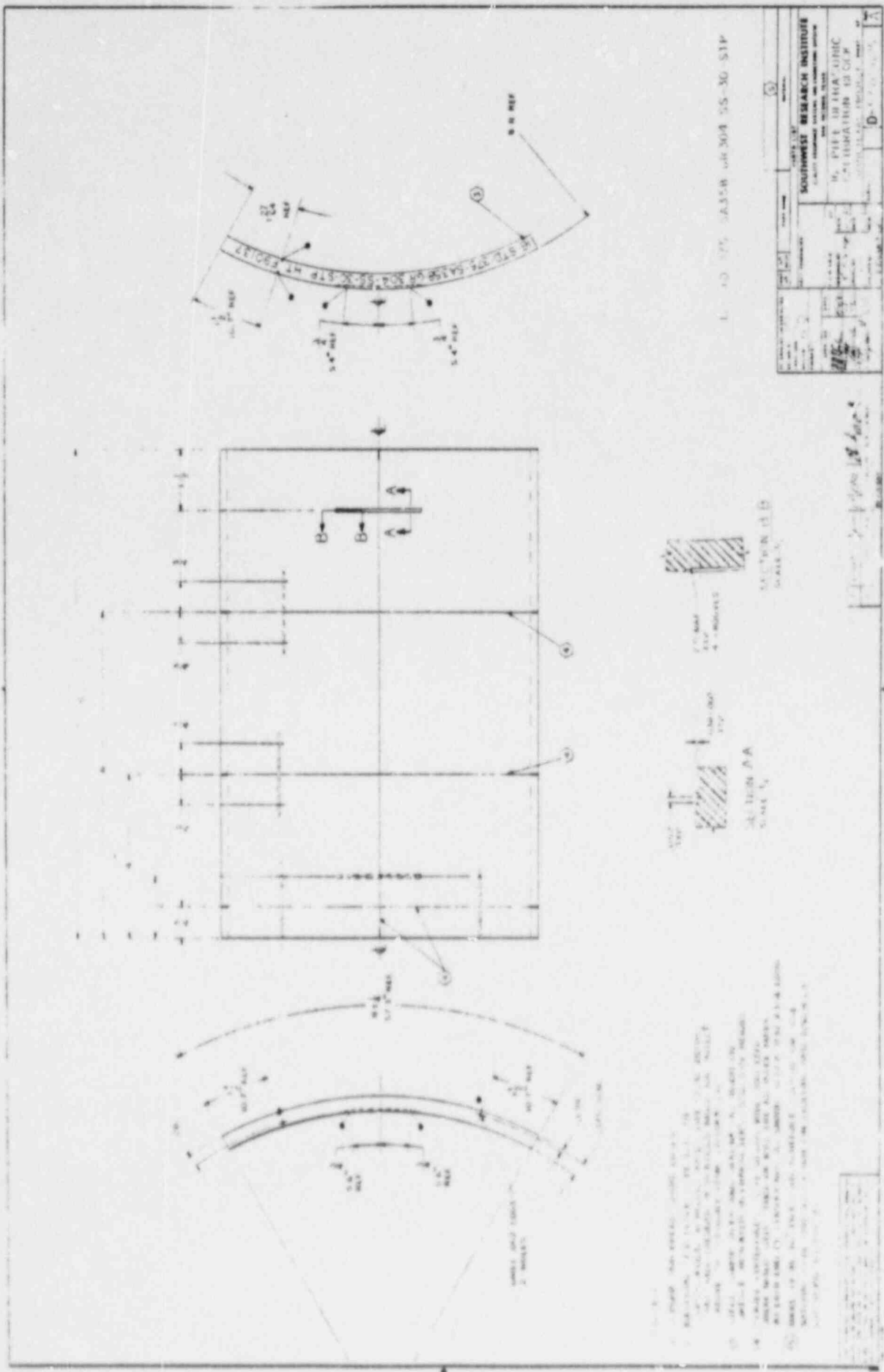
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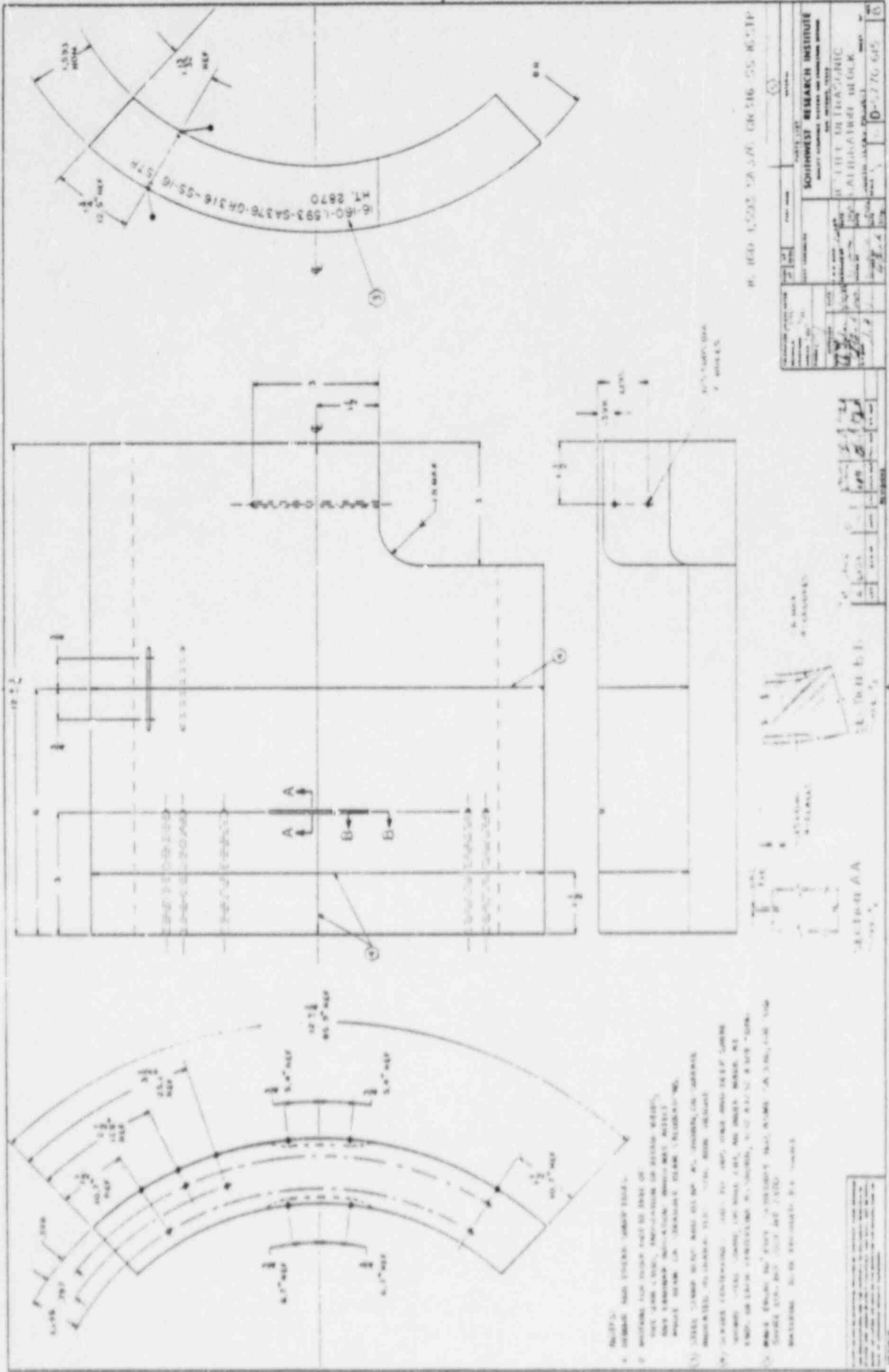
1. REMOVE AND BREAK SHARP EDGES
2. MATERIAL FOR BULK ANGLE OR PARTS OF PIPE SHALL BE 1/2" FABRICATION OR REPAIR WELD, AND CORNER INDICATIONS WHICH MAY AFFECT ANGLE BEAR ON STRAIGHT BEAM CALIBRATIONS.
3. STEEL STAMP IS UP AND BEAR BY AS SHOWN ON SURFACE INDICATED BY CORNER TEARS AT 1/2" MAX HEIGHT.
4. SCREW COUNTERSINKS GOES TO 0.015" DEEP AND DEEP WHERE NOTED. STEEL STAMP OR MILL CUT AN INDEX MARK AT ENDS OF EACH CENTERLINE AS SHOWN 1/32" X 1/8" LONG.
5. MARK FROM 14" PIPE SCHEDULE 40 PIPE SA-338 OR 304 STAINLESS MS 2024C, HEAT NO. 45421.



14-40 438-SA338-GR 304-SS-29-STP

TITLES		DATE		BY		CHECKED	
DESIGNED		DRAWN		APPROVED		SCALE	
SOUTHWEST RESEARCH INSTITUTE							
(S)							
14" PIPE - ULTRASONIC CALIBRATION BLOCK							
SOUTH PLACES							
C D-5770 624							





1. THIS DRAWING IS THE PROPERTY OF THE DRAWING OFFICE. IT IS TO BE KEPT IN THE OFFICE OF THE DRAWING OFFICE AND NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

2. THIS DRAWING IS THE PROPERTY OF THE DRAWING OFFICE. IT IS TO BE KEPT IN THE OFFICE OF THE DRAWING OFFICE AND NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

3. THIS DRAWING IS THE PROPERTY OF THE DRAWING OFFICE. IT IS TO BE KEPT IN THE OFFICE OF THE DRAWING OFFICE AND NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

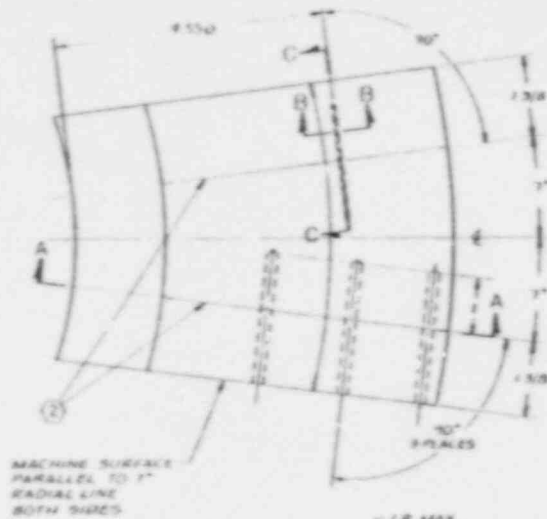
4. THIS DRAWING IS THE PROPERTY OF THE DRAWING OFFICE. IT IS TO BE KEPT IN THE OFFICE OF THE DRAWING OFFICE AND NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

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6-160-1593-S276-Q216-SS-16 57K  
 KT. 2870

NORTHWEST RESEARCH INSTITUTE  
 1000 WEST 10TH AVENUE  
 DENVER, COLORADO 80202

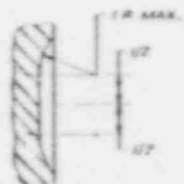
DRAWING NO. 10-1770-015



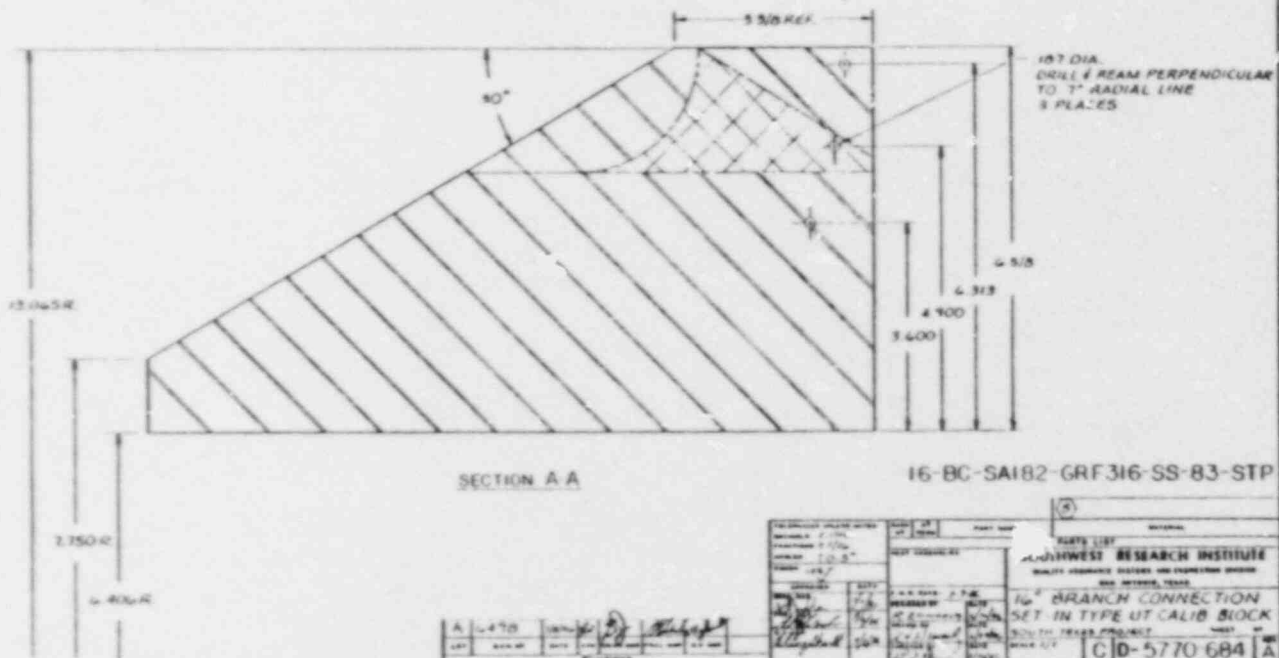
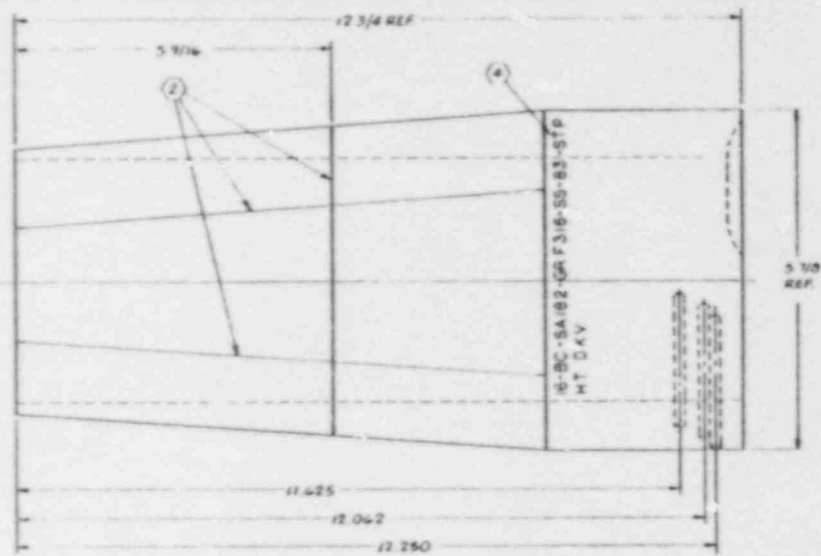
MACHINE SURFACE  
PARALLEL TO 1"  
RADIAL LINE  
BOTH SIDES



SECTION BB



SECTION CC



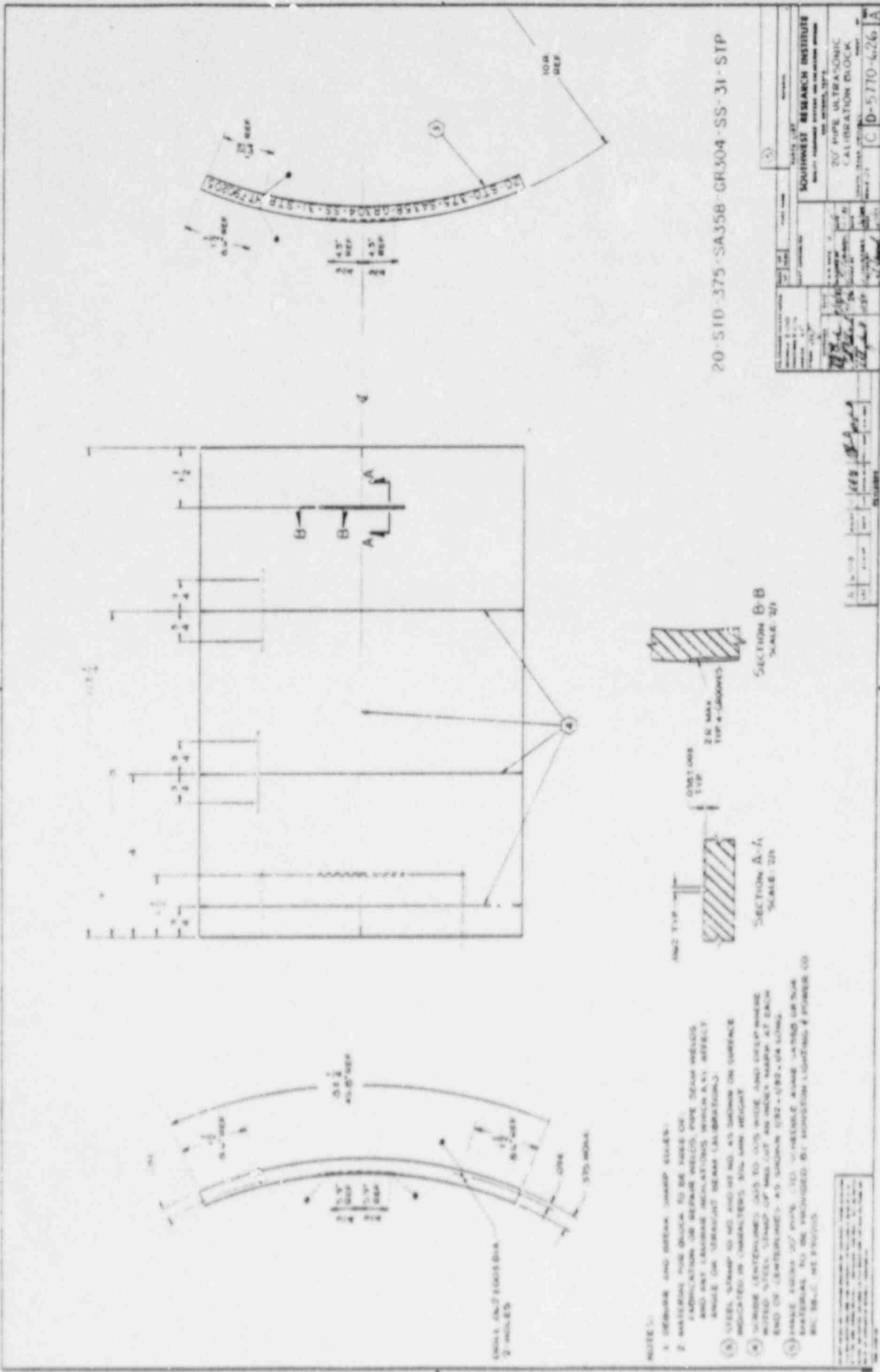
SECTION A A

16-BC-SAI82-GRF316-SS-83-STP

## NOTES:

1. BREAK SHARP EDGES & REMOVE BURRS.
2. SCRIBE CENTERLINES ONLY TO .005 WIDE AND DEPT MARKS. NOTE: STEEL STAMP OR MILL CUT AN INSCR MARK AT ENDS OF EACH CENTERLINE AS SHOWN (1/2" / 1/2" / 1/4").
3. MATERIAL FOR BLOCK TO BE ULTRASONICALLY EXAMINED IN AC. ORANGE WITH SWIRL NOT PROCEDURE IN FE-120-7.
4. STEEL STAMP ID NO. & HEAT NO. AS SHOWN ON SURFACE INDICATED IN CHARACTERS 1/4 MIN HEIGHT.
5. MAKE FROM SAI82 GR F 316 MATERIAL TO BE PROVIDED BY SWIRL SWIRL LKS NO 22490; HEAT NO 21K.

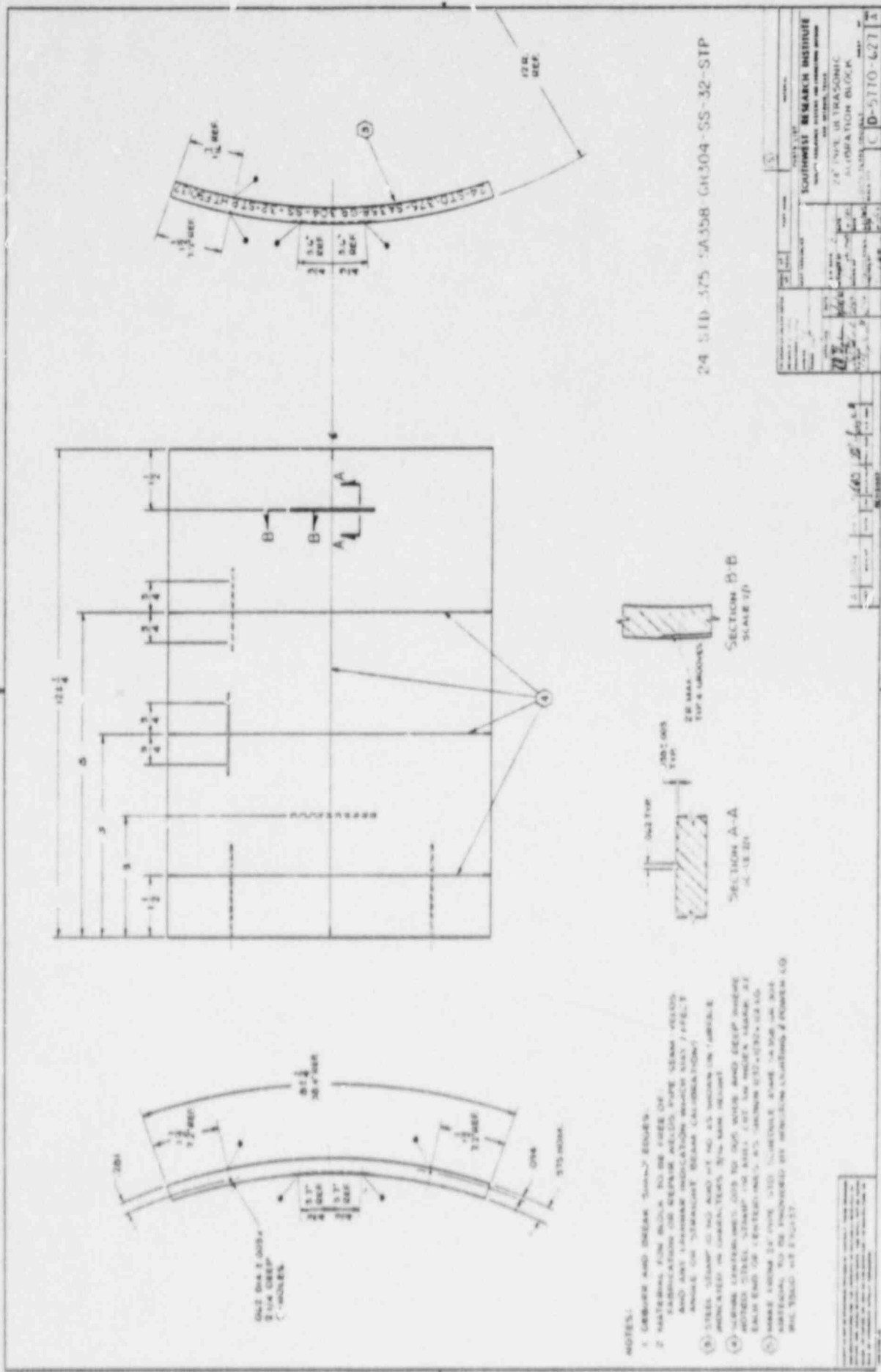
PART LIST		MATERIAL	
SOUTHWEST RESEARCH INSTITUTE			
HEALTH AND ENVIRONMENT DIVISION			
2605 MISSION, TULSA			
1/4 BRANCH CONNECTION			
SET IN TYPE UT CALIB BLOCK			
SOUTH TRASS, OKLAHOMA			
WORK UT			
C D-5770 684		A	



20-510-375-SA358-GR304-SS-3I-STP

<b>SOUTHWEST RESEARCH INSTITUTE</b> 3701 UNIVERSITY AVENUE DENVER, COLORADO 80202	
PROJECT NO. 20-510-375 DRAWING NO. SA358-GR304-SS-3I-STP	SCALE: AS SHOWN DATE: 10/15/59 BY: J.E.H.
CHECKED BY: J.E.H. APPROVED BY: J.E.H.	C 10-5170-626 A

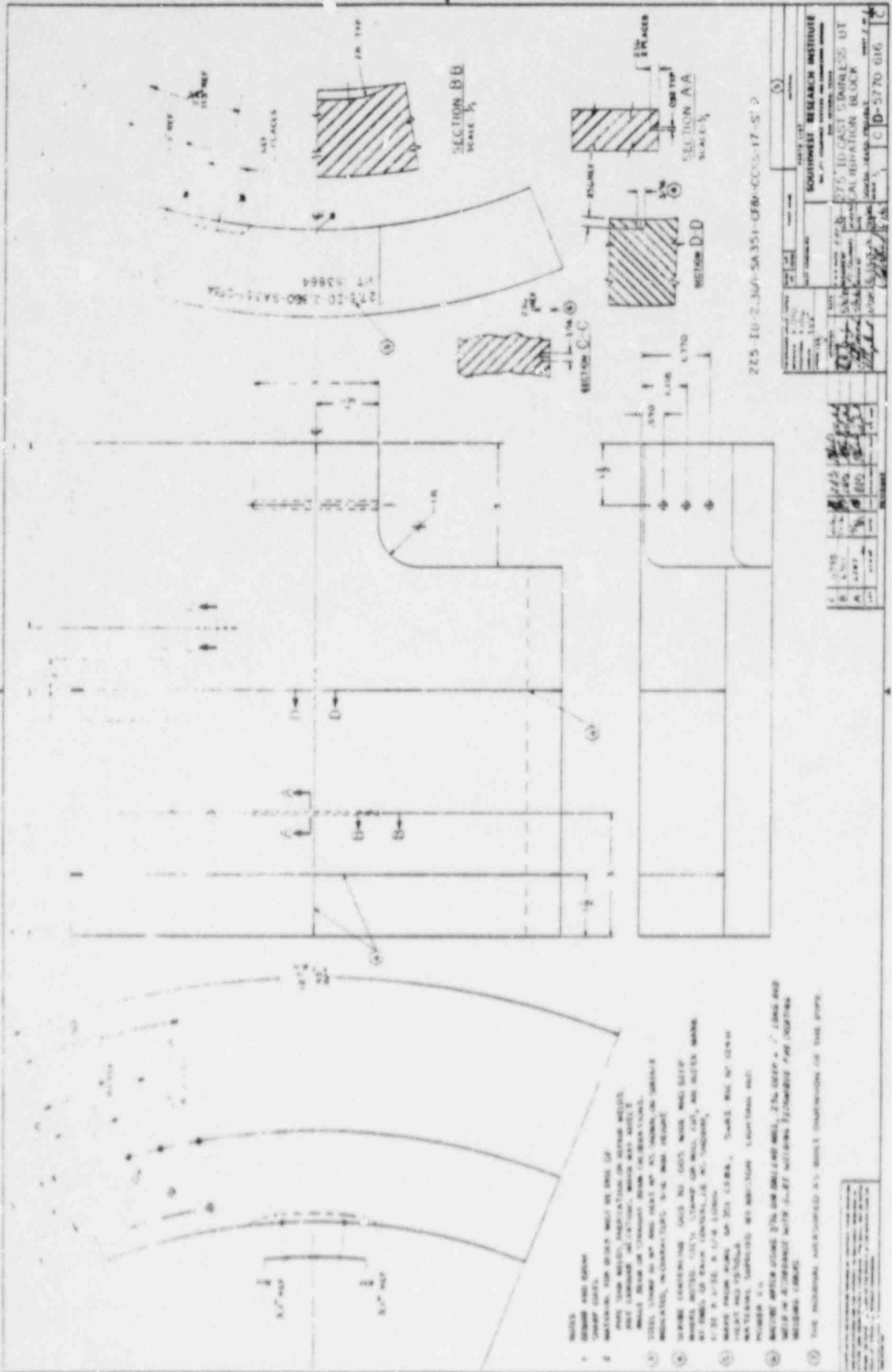
- NOTE:
1. DESIGN AND BREAK SHARP EDGES.
  2. MATERIALS FOR BRUSH TO BE SAE 304 STAINLESS STEEL OR EQUIVALENT FOR BRUSH AND SEAM WELDS AND ANY LARGER IMPELLERS WHICH MAY BE USED ON STAMP (SEE DRAWING FOR DETAILS).
  3. SEAM WELDS TO BE MADE BY MIG OR TIG WELDING ON SURFACE INDICATED BY DIMENSIONS. SEE DRAWING FOR DETAILS.
  4. WELDE CENTERLINE TO BE 1/16" WIDE AND DEEP WELDE WELDED STEEL STAMP OF 1/16" THICK AT EACH END OF CENTERLINE. AS SHOWN (SEE 100-100-100).
  5. BRUSH BRUSH TO BE 1/16" WIDE AND 1/16" LONG. BRUSHES TO BE PROVIDED BY HANSON LIGHTING & POWER CO. INC., B.C. 1010010.



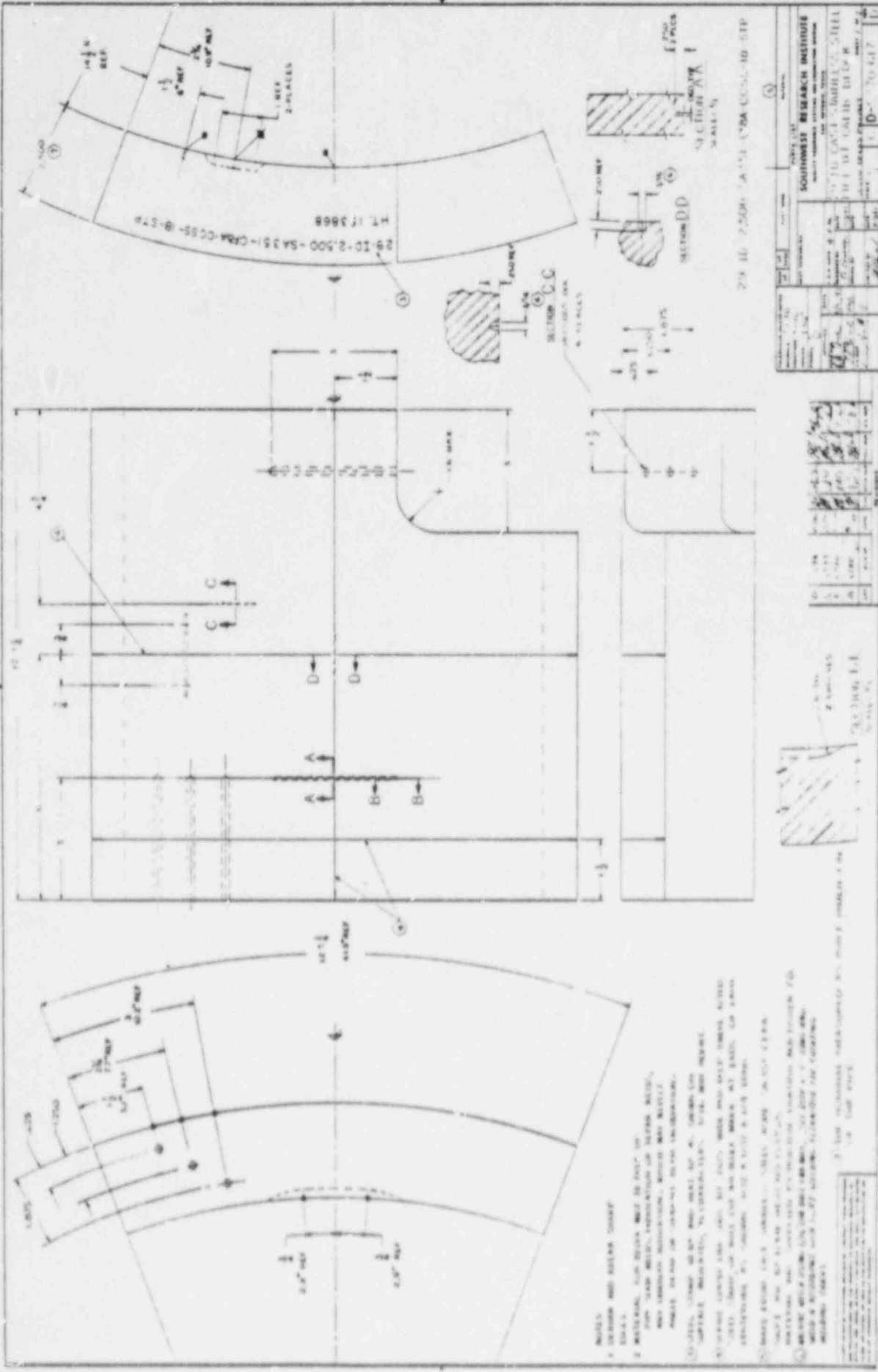
24 IN DIA 175 SA358 GR304 SS-32-STP

PROJECT NO. 175 SOUTHWEST RESEARCH INSTITUTE 2701 W. WILSON AVENUE TULSA, OKLAHOMA 74115	
TITLE 24" DIA. 175 SA358 GR304 SS-32-STP ALUMINATION BLOCK	DRAWN BY CHECKED BY DATE
SCALE AS SHOWN	SHEET NO. 1 OF 1

- NOTES:
1. CORNER AND BREAK "TWO" EDGES.
  2. MATERIAL FOR BLOCK TO BE FREE OF LACINATION OR REPAIR WELDS. PIPE SEAM WELDS AND ANY TANGENTIAL INDICATION WHICH MAY AFFECT STRESS CLEANUP IS TO ALSO BE AS SHOWN ON "DETAIL" PRINTED ON DRAWINGS. SEE DRAWING.
  3. STRESS CLEANUP IS TO BE AS SHOWN ON "DETAIL" PRINTED ON DRAWINGS. SEE DRAWING.
  4. STRESS CLEANUP IS TO BE AS SHOWN ON "DETAIL" PRINTED ON DRAWINGS. SEE DRAWING.
  5. STRESS CLEANUP IS TO BE AS SHOWN ON "DETAIL" PRINTED ON DRAWINGS. SEE DRAWING.



- 1 DIMENSIONS AND TOLERANCES
- 2 MATERIAL: 304 STAINLESS STEEL
- 3 FINISH: 120 GRIT SANDBLAST
- 4 DIMENSIONS AND TOLERANCES
- 5 DIMENSIONS AND TOLERANCES
- 6 DIMENSIONS AND TOLERANCES
- 7 DIMENSIONS AND TOLERANCES
- 8 DIMENSIONS AND TOLERANCES
- 9 DIMENSIONS AND TOLERANCES
- 10 DIMENSIONS AND TOLERANCES

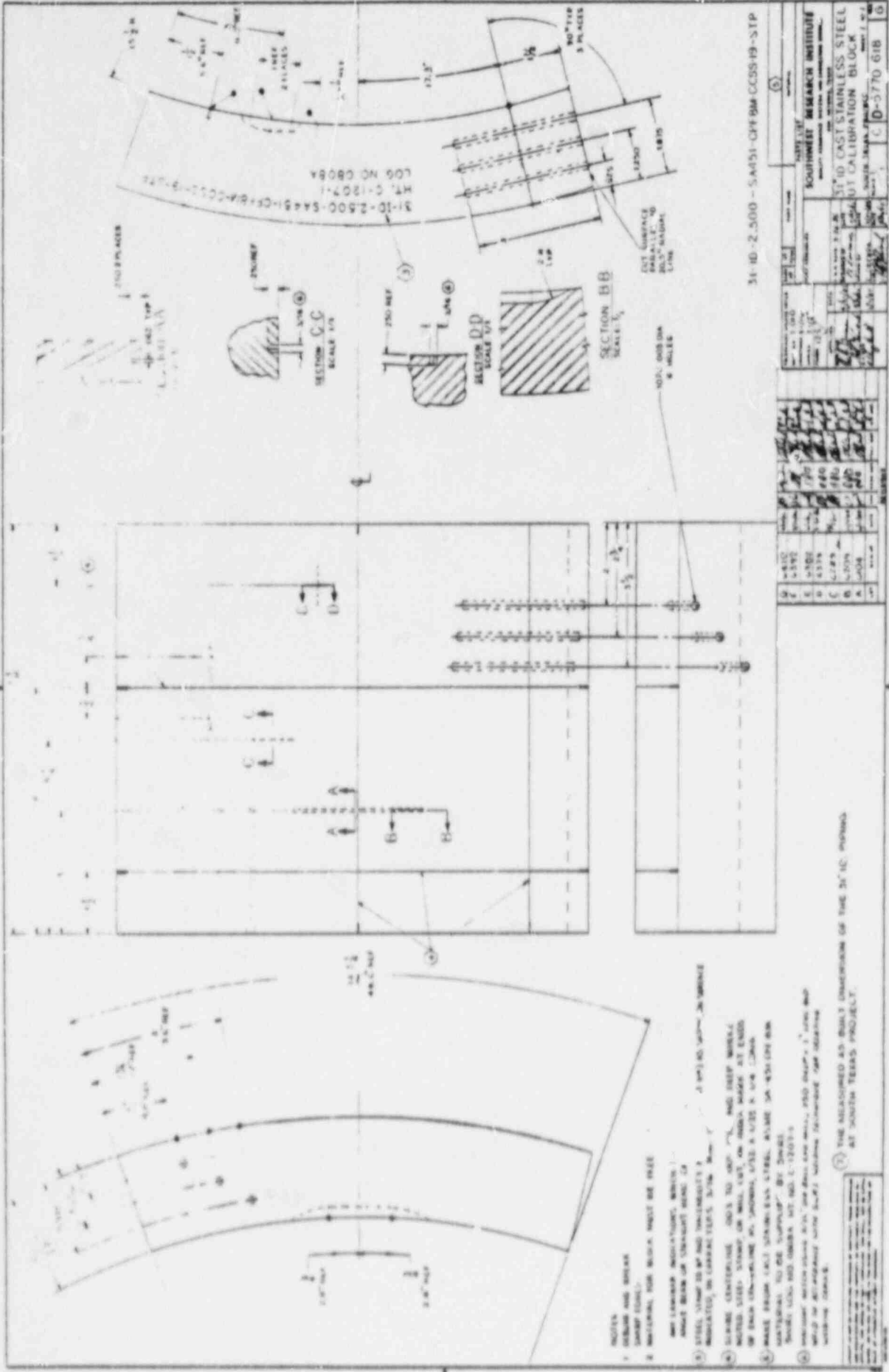


- 1. SECTION AND ELEVATION DRAWING
- 2. MATERIALS, SEE DRAWING SHEET 29-10-2,500-SA 351-CRMA-CSS-8-278 FOR CURVED WALL, VERIFICATION OF DESIGN, REVISIONS AND CONSTRUCTION INFORMATION, WHICH MAY BE OBTAINED FROM THE ARCHITECT'S OFFICE.
- 3. FINISHES, SEE DRAWING SHEET 29-10-2,500-SA 351-CRMA-CSS-8-278 FOR CURVED WALL, VERIFICATION OF DESIGN, REVISIONS AND CONSTRUCTION INFORMATION, WHICH MAY BE OBTAINED FROM THE ARCHITECT'S OFFICE.
- 4. CURVED WALL, SEE DRAWING SHEET 29-10-2,500-SA 351-CRMA-CSS-8-278 FOR CURVED WALL, VERIFICATION OF DESIGN, REVISIONS AND CONSTRUCTION INFORMATION, WHICH MAY BE OBTAINED FROM THE ARCHITECT'S OFFICE.
- 5. CURVED WALL, SEE DRAWING SHEET 29-10-2,500-SA 351-CRMA-CSS-8-278 FOR CURVED WALL, VERIFICATION OF DESIGN, REVISIONS AND CONSTRUCTION INFORMATION, WHICH MAY BE OBTAINED FROM THE ARCHITECT'S OFFICE.
- 6. CURVED WALL, SEE DRAWING SHEET 29-10-2,500-SA 351-CRMA-CSS-8-278 FOR CURVED WALL, VERIFICATION OF DESIGN, REVISIONS AND CONSTRUCTION INFORMATION, WHICH MAY BE OBTAINED FROM THE ARCHITECT'S OFFICE.
- 7. CURVED WALL, SEE DRAWING SHEET 29-10-2,500-SA 351-CRMA-CSS-8-278 FOR CURVED WALL, VERIFICATION OF DESIGN, REVISIONS AND CONSTRUCTION INFORMATION, WHICH MAY BE OBTAINED FROM THE ARCHITECT'S OFFICE.
- 8. CURVED WALL, SEE DRAWING SHEET 29-10-2,500-SA 351-CRMA-CSS-8-278 FOR CURVED WALL, VERIFICATION OF DESIGN, REVISIONS AND CONSTRUCTION INFORMATION, WHICH MAY BE OBTAINED FROM THE ARCHITECT'S OFFICE.
- 9. CURVED WALL, SEE DRAWING SHEET 29-10-2,500-SA 351-CRMA-CSS-8-278 FOR CURVED WALL, VERIFICATION OF DESIGN, REVISIONS AND CONSTRUCTION INFORMATION, WHICH MAY BE OBTAINED FROM THE ARCHITECT'S OFFICE.
- 10. CURVED WALL, SEE DRAWING SHEET 29-10-2,500-SA 351-CRMA-CSS-8-278 FOR CURVED WALL, VERIFICATION OF DESIGN, REVISIONS AND CONSTRUCTION INFORMATION, WHICH MAY BE OBTAINED FROM THE ARCHITECT'S OFFICE.

29-10-2,500-SA 351-CRMA-CSS-8-278

PROJECT TITLE		SHEET NO.	
SOUTHWEST RESEARCH INSTITUTE		10	
PROJECT LOCATION		SHEET NO.	
PROJECT NO.		SHEET NO.	
DATE		SHEET NO.	
DRAWN BY		SHEET NO.	
CHECKED BY		SHEET NO.	
APPROVED BY		SHEET NO.	
SCALE		SHEET NO.	
TYPED BY		SHEET NO.	
DATE		SHEET NO.	



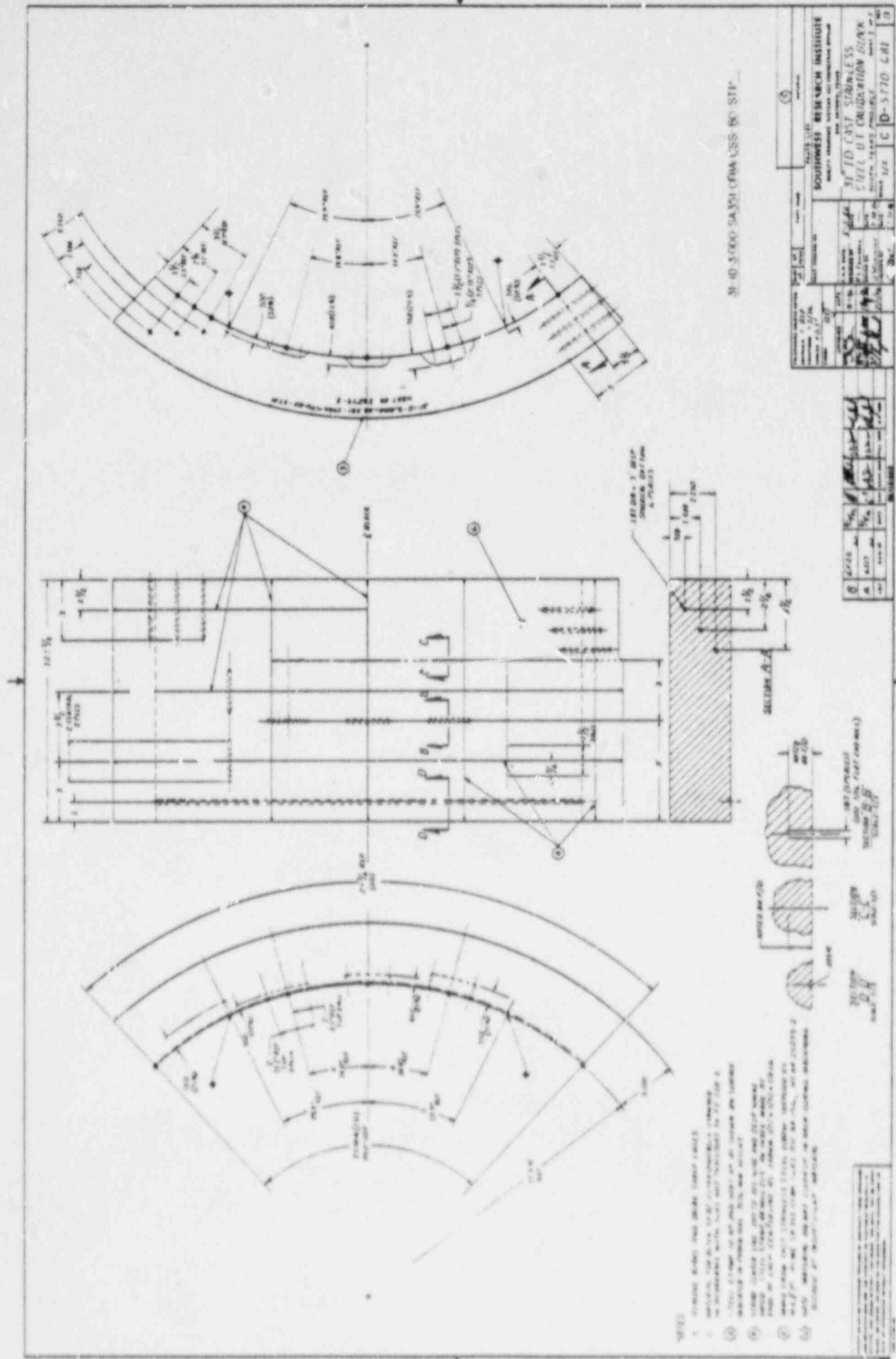


31-ID-2,500 - SA151-CF-BR-CCSS-19-STP

SOUTHWEST RESEARCH INSTITUTE				
31-ID-2500-SAB-CF-BR-CCSS-19-STP				
NO.	DATE	BY	CHKD.	APP'D.
1	1/15/53	W. J. ...	...	...
2	1/15/53	W. J. ...	...	...
3	1/15/53	W. J. ...	...	...
4	1/15/53	W. J. ...	...	...
5	1/15/53	W. J. ...	...	...
6	1/15/53	W. J. ...	...	...
7	1/15/53	W. J. ...	...	...
8	1/15/53	W. J. ...	...	...
9	1/15/53	W. J. ...	...	...
10	1/15/53	W. J. ...	...	...

- NOTES
1. DIMENSIONS AND SPACES SHOWN ARE UNLESS OTHERWISE SPECIFIED.
  2. MATERIALS FOR BLOCKS MUST BE FREE OF LAMINAR INCLUSIONS, WHICH MUST BE DETECTED BY X-RAY EXAMINATION.
  3. STEEL SHOTS AND BALLS MUST BE UNIFORM IN SIZE AND WEIGHT AS SPECIFIED IN MIL-STD-1293, TYPE A, SIZE 100.
  4. MAKE FROM 316L STAINLESS STEEL. MAKE IN 450-100-000 WORKS TO BE SUPPLIED BY SWRI.
  5. SURFACE FINISH SHALL BE 320 GRIT SAND BLAST.
  6. MATERIALS MUST BE 316L STAINLESS STEEL.

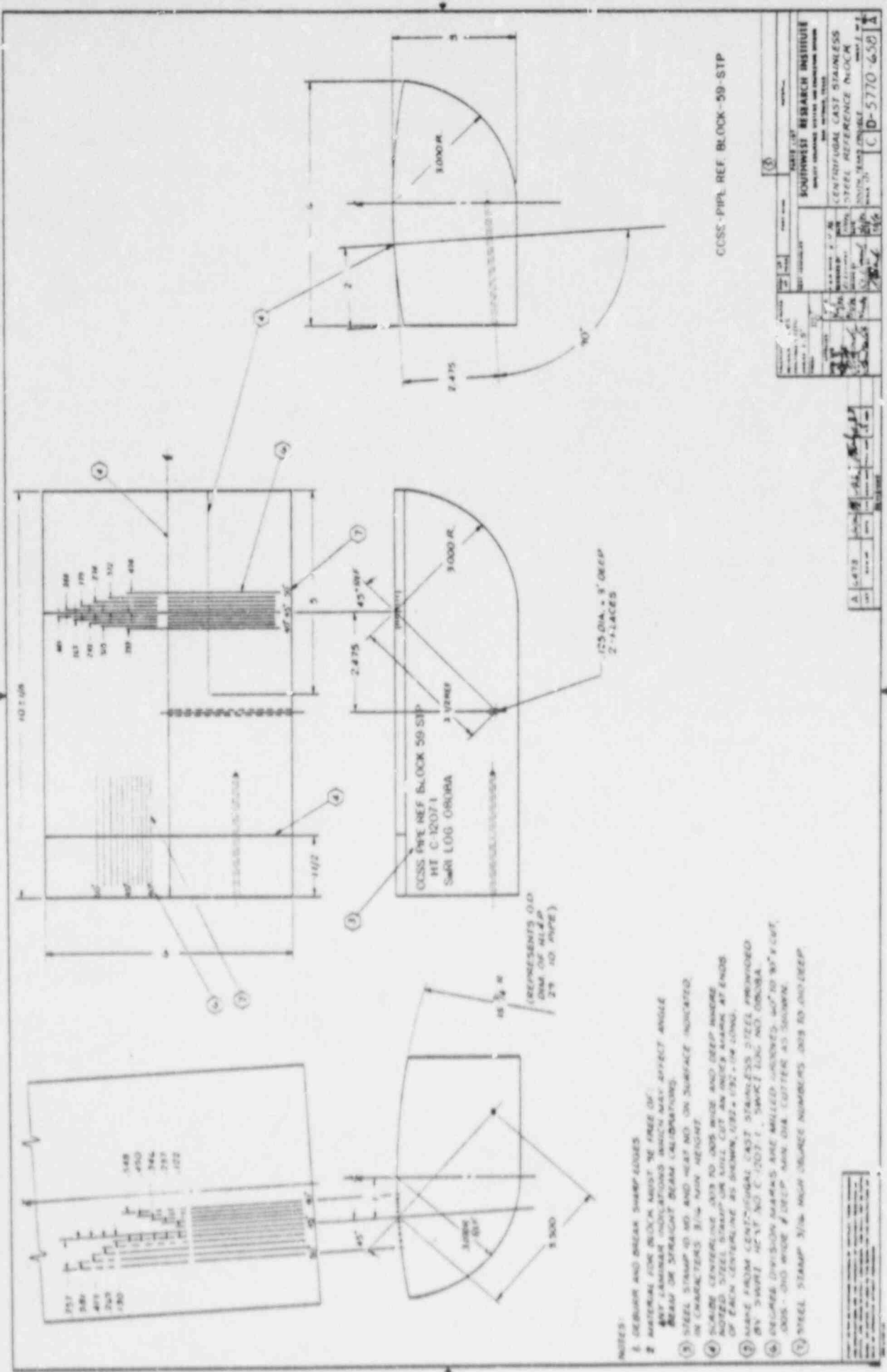
THE MEASURED AS-BUILT DIMENSIONS OF THE 31-ID-2500 AT SOUTH TEXAS PROJECT.



3' ID CAST STAINLESS STEEL CYCLONE SEPARATOR SHELL

PROJECT NO.	DATE	BY	CHECKED
100-5170-CRI	1/28/58	J. H. ...	J. H. ...
SOUTHWEST RESEARCH INSTITUTE			
3' ID CAST STAINLESS STEEL CYCLONE SEPARATOR SHELL			
PROJECT NO. 100-5170-CRI			
DATE 1/28/58			
BY J. H. ...			
CHECKED J. H. ...			

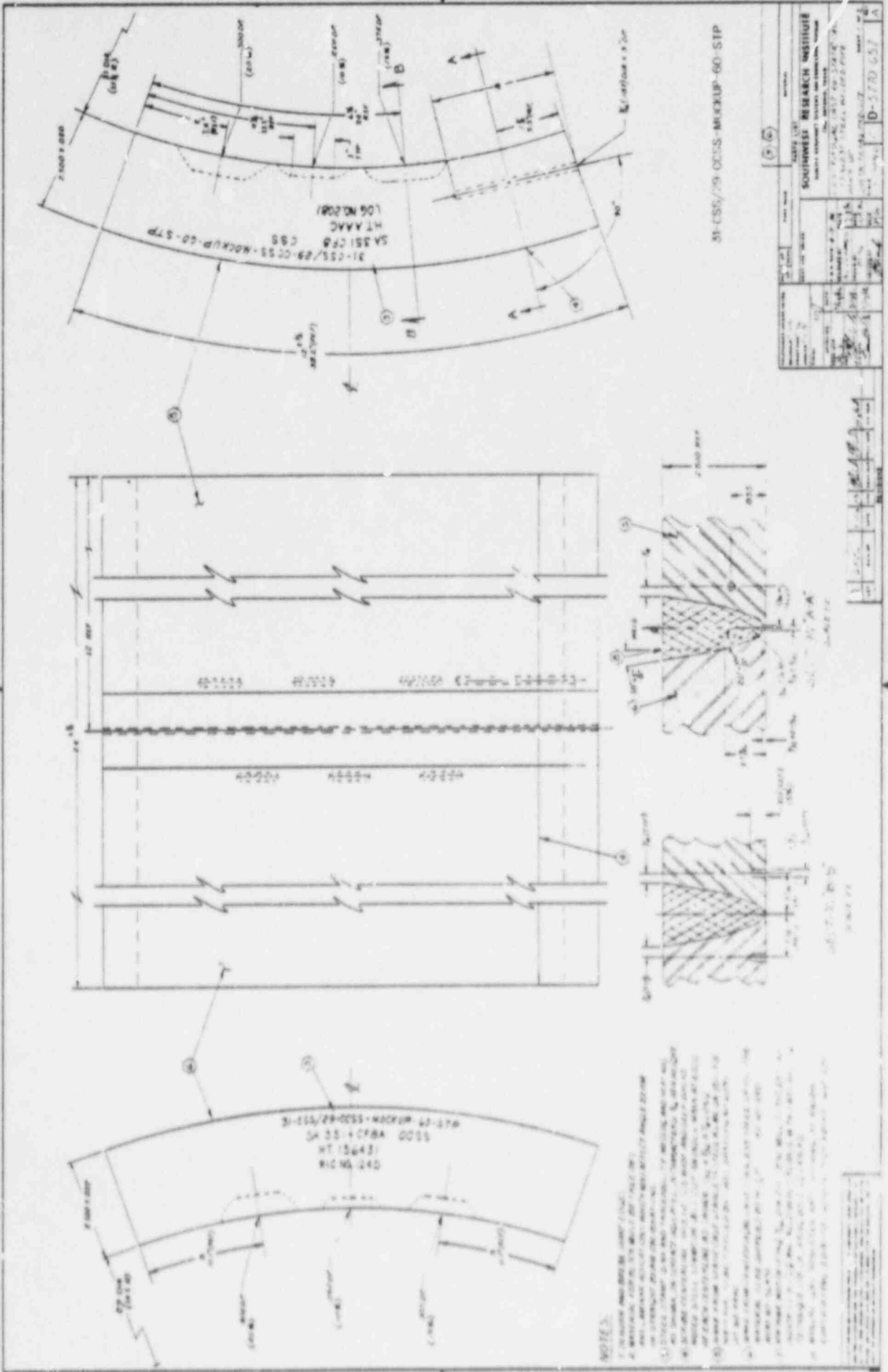
- NOTES
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
  2. MATERIALS TO BE USED SHALL BE AS SPECIFIED IN THE DRAWING.
  3. THE CYCLONE SEPARATOR SHALL BE FABRICATED IN ACCORDANCE WITH THE DRAWING AND THE SPECIFICATIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
  4. THE CYCLONE SEPARATOR SHALL BE TESTED IN ACCORDANCE WITH THE DRAWING AND THE SPECIFICATIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
  5. THE CYCLONE SEPARATOR SHALL BE MAINTAINED IN ACCORDANCE WITH THE DRAWING AND THE SPECIFICATIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS.



CCSS-PIPE REF BLOCK-59-STP

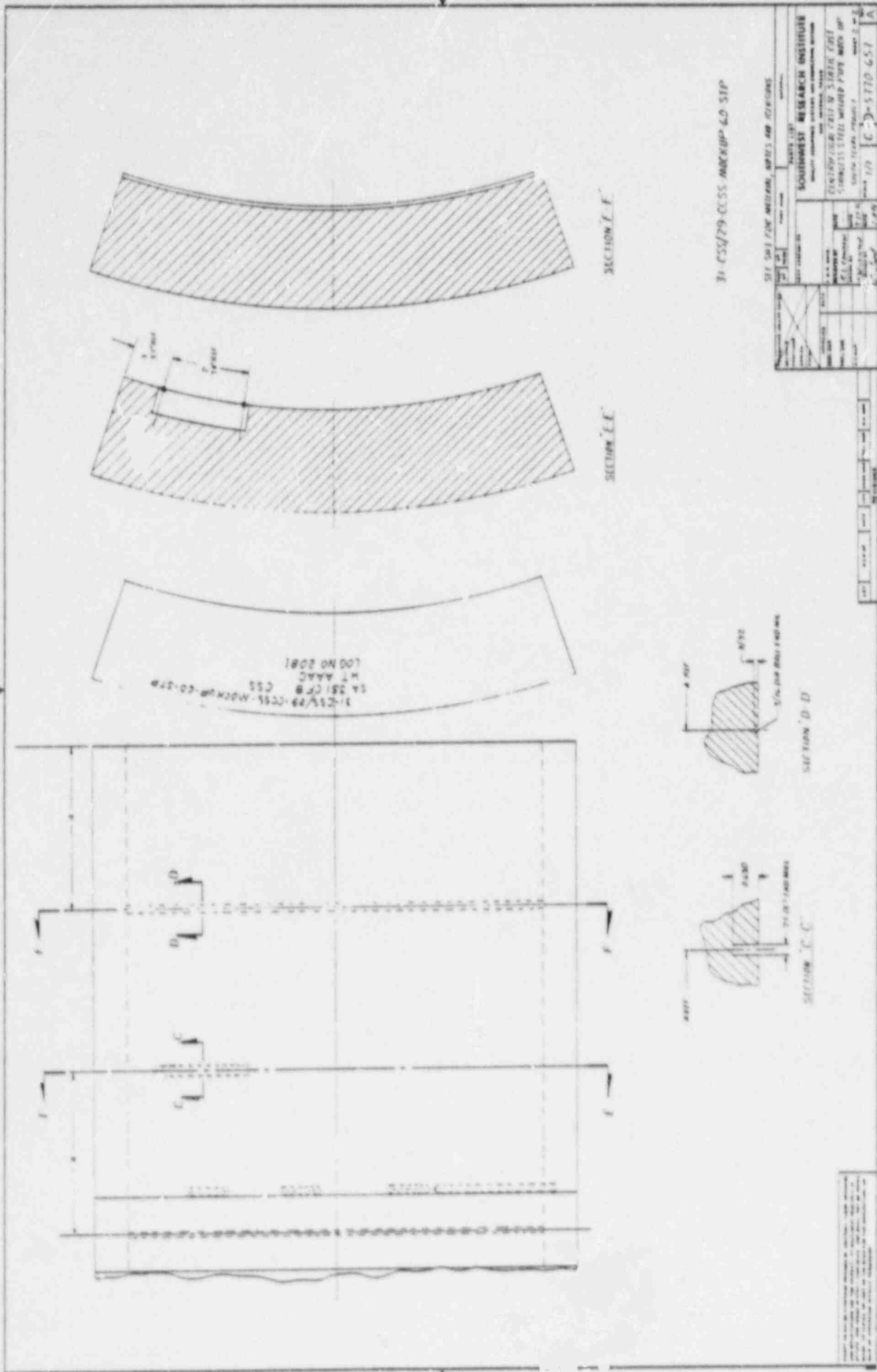
- NOTES:
1. DEBURR AND BREAK SHARP EDGES
  2. MATERIAL FOR BLOCK MUST BE FREE OF:
    - ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE
    - BEAM OR STRAIGHT BEAM ALIGNMENTS
  3. STEEL STAMP IS 60 AND HEAT NO. ON SURFACE INDICATED IN CHARACTERISTICS 3/4" HIGH HEIGHT
  4. SURFACE CENTERLINE DOES TO 0.005 WIDE AND DEEP WHERE NOTED. STEEL STAMP OR MILL CUT AN ORDER MARK AT END OF EACH CENTERLINE AS SHOWN, 0.032 ± 0.001 IN LONG.
  5. MARKS FROM CENTRIFUGAL CAST STAINLESS STEEL PROVIDED BY SHAW-WALKER HEAT NO. C-1207-1. STAMP LONG NO. 0808A.
  6. INCLUDE DIVISION MARKS AND MILELS INDICATED NOT TO 0.015 IN. 0.005 WIDE x 0.005 DEEP. MARK DIA. CUTTER AS SHOWN.
  7. STEEL STAMP 3/16" HIGH. DIMENSIONS DOES TO 0.005 DEEP.

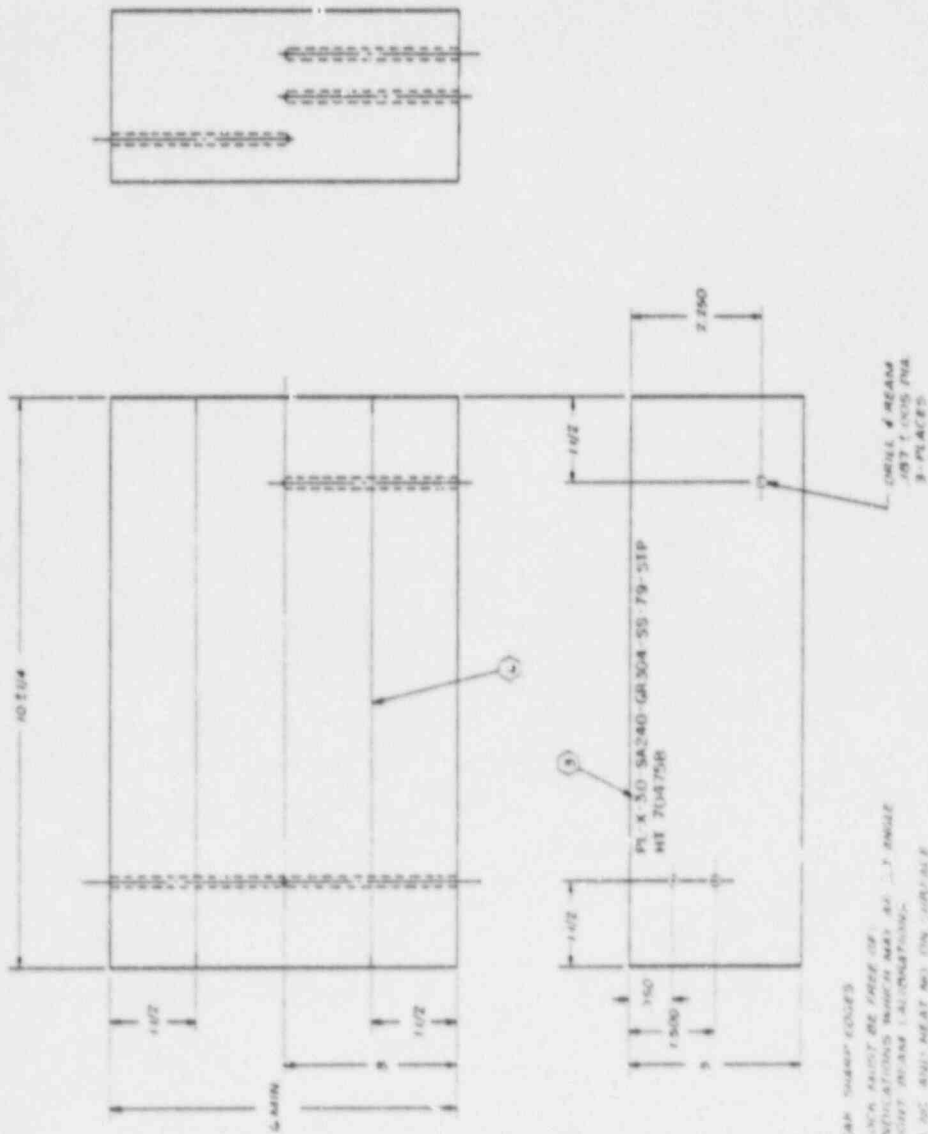
DATE	11/15/58	BY	J. L. ...
APP'D		CHECK'D	
SOUTHWEST RESEARCH INSTITUTE			
CENTRIFUGAL CAST STAINLESS STEEL REFERENCE BLOCK			
C.D. - 5770-650			



**NOTES:**  
 1. ALL DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED.  
 2. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.  
 3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.  
 4. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.  
 5. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.  
 6. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.  
 7. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.  
 8. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.  
 9. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.  
 10. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.

DRAWING NO. 31-055/29-0055-MOCKUP-60-STP	DATE 10/10/57	DRAWN BY J. B. BROWN	CHECKED BY J. B. BROWN
DESIGNED BY J. B. BROWN	APPROVED BY J. B. BROWN	SOUTHWEST RESEARCH INSTITUTE 6000 W. CENTRAL AVENUE DENVER, COLORADO 80215	SHEET NO. 1 OF 1
PROJECT NO. 31-055/29-0055-MOCKUP-60-STP	DRAWING TITLE 31-055/29-0055-MOCKUP-60-STP	SCALE 1:1	DRAWING DATE 10/10/57





NOTES:

- 1. DEBURR AND BREAK SHARP EDGES
- 2. MATERIAL FOR BLANK MUST BE FREE OF ANY LAMINAR INDICATIONS WHICH MAY BE DETECTED BY STRAIGHT BEAM INSPECTION.
- 3. STEEL STAMP IS TO BE KEPT ON SURFACE INDICATED IN DRAWING USING PERMANENT MARKING.
- 4. SQUARE THREADS ARE TO BE USED FOR ALL DEEP HOLE MATERIALS. ALL MATERIALS TO BE A 1/8" MIN. AT EACH END OR CENTERLINE AS IN VIEW T-005-REF LONG.
- 5. MAKE FROM ANNEaled 304 OR 316 TYPE, VENTURIL PROVISIONS BY DWG. NO. 100-7723-01 AT NO. 100-1518

PL X-30-SA240-GR304-SS-79-SIP

DATE: 10/1/58		DRAWN: [Signature]	
CHECKED: [Signature]		APPROVED: [Signature]	
SOUTHWEST RESEARCH INSTITUTE			
STEAM GENERATION PLATE OF CALIBRATION BLOCK			
JOB NO. T-005		REV. NO. 0	
DRAWN BY: [Signature]		DATE: 10/1/58	
CHECKED BY: [Signature]		APPROVED BY: [Signature]	
C D-5770-680			

APPENDIX E

LISTING OF CERTIFIED MATERIAL AND EQUIPMENT

## APPENDIX E

## LISTING OF CERTIFIED MATERIAL AND EQUIPMENT

MATERIAL

<u>Type</u>	<u>Date</u>
Berol Prismacolor White Pencils #938, Log #2337B	27 Feb 87
Berol Prismacolor Black Pencils #935, Log #2200B	27 Feb 87
Berol Prismacolor Black Pencils #935, Log #2171	17 Feb 86
Berol Prismacolor White Pencils #938, Log #2194A	17 Feb 86
Eagle Prismacolor Black Pencils #935, Log #1997	17 Oct 84
Eagle Prismacolor White Pencils #938, Log #1884A	17 Oct 84
Eagle Prismacolor Black Pencils #935, Log #1882A	17 Oct 84
Koh-In-All Black Pencils #1555, Log #2011B	17 Jan 85
Koh-In-All White Pencils #1555, Log #2005	17 Jan 85
Koh-In-All Black Pencils #1555, Log #2073A	17 Jan 85
Koh-In-All White Pencils #1555, Log #2073A	17 Jan 85
Koh-In-All White Pencils #1555, Log #2151B	06 Feb 86
Kodak Neutral Gray Cards (1/13" Black Line), Log #1766	02 May 83
MT No. 1 Gray Powder, Magnaflux, Batch #85A013, Log #1981	20 Feb 85
MT No. 1 Gray Powder, Magnaflux, Batch #85D074, Log #2054	12 Jul 85
MT No. 1 Gray Powder, Magnaflux, Batch #85J048, Log #2198B	25 Sep 85
MT No. 8A Red Powder, Magnaflux, Batch #84F012, Log #1921A	14 Jun 84
MT No. 8A Red Powder, Magnaflux, Batch #85J080, Log #2198A	02 Dec 85
MT No. 8A Red Powder, Magnaflux, Batch #86C084, Log #2215C	06 May 86
MT No. 8A Red Powder, Magnaflux, Batch #86C083, Log #2215C-C	05 May 86
MT No. 14AM Prepared Bath, Magnaflux, Batch #85E004, Log #2044	26 Jun 85
MT No. 14AM Prepared Bath, Magnaflux, Batch #86C089, Log #2214A	22 Apr 86
MT No. 14AM Prepared Bath, Magnaflux, Batch #87C003, Log #2442	04 Mar 87
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #85J058, Log #2090A	20 Sep 85
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #86B051, Log #2214B	28 Feb 86
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #85M053, Log #2187	29 Jan 86
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #85J058, Log #2143	20 Sep 85
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #85D086, Log #2092	01 May 85
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #82A080, Log #1599	18 Jan 82
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #84M067, Log #1955A	07 Jan 85
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #87J076, Log #2470	30 Sep 87
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #87E001, Log #2453	14 May 87



APPENDIX E

LISTING OF CERTIFIED MATERIAL AND EQUIPMENT (CONT'D)

MATERIAL (CONT'D)

<u>Type</u>	<u>Date</u>
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #87C034, Log #2407	18 Mar 87
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #87F039, Log #2449	17 Jun 87
Spotcheck PT Cleaner/Remover, Magnaflux SKC-S, Batch #87F039, Log #2437A	17 Jun 87
Spotcheck PT Cleaner/Remover, Magnaflux SKC-NF/ZC-7B, Batch #85H070 (provided by HL&P)	27 Aug 85
PT Cleaner, Ardrex PR1, Batch #1837, Canner #5329, Log #2184B	25 Feb 86
PT Remover, Met-L-Check E-59, Batch #1886, Log #2334A	05 Nov 86
PT Remover, Met-L-Check E-59, Batch #1746, Log #2296A	21 Oct 85
PT Remover, Met-L-Check E-59, Batch #1886, Log #2426	18 Nov 86
Spotcheck PT Penetrant, Magnaflux SKL-HF/S, Batch #84L058, Log #1955C	26 Dec 84
Spotcheck PT Penetrant, Magnaflux SKL-HF/S, Batch #82K019, Log #1717B	14 Oct 82
Spotcheck PT Penetrant, Magnaflux SKL-HF/S, Batch #81L026, Log #1546C	13 Nov 81
PT Penetrant, Ardrex P6F2, Batch #1550, Canner #5133, Lot #2184A	25 Feb 86
PT Penetrant, Met-L-Check VP-30, Batch #1743, Log #2048A-C	18 Jul 85
PT Penetrant, Met-L-Check VP-30, Batch #1509, Log #1914A-C	10 Sep 84
PT Penetrant, Met-L-Check VP-30, Batch #1810, Log #2296C	30 Jul 86
Spotcheck PT Developer, Magnaflux SKD-S, Batch #83J015, Log #1829C	09 Sep 83
Spotcheck PT Developer, Magnaflux SKD-S, Batch #84M029, Log #1955B	18 Dec 84
Spotcheck PT Developer, Magnaflux SKD-S, Batch #87F047, Log #2437B	17 Jun 87
PT Dry Developer, Ardrex D-70, Batch #1853, Log #2184C	25 Feb 86
PT Developer, Met-L-Check D-70, Batch #1884, Log #2296B	09 May 86
PT Developer, Met-L-Check D-70, Batch #1884, Log #2334B	09 May 86
PT Developer, Met-L-Check D-70, Batch #1884, Log #2213B	09 May 86
Glycerine, Lot No. TB-841005-5, Log #1960	05 Feb 86
Glycerine, Lot No. TB-850305-5, Log #2035	28 Jan 86
Glycerine, Lot No. TB-860507-4, Log #2230	08 Jul 86
Glycerine, Lot No. TA-861201, Log #2414	13 Aug 87
Glycerine, Lot No. TA-861201, Log #2401	22 May 87
Sonotrace 40, Batch #8552, Log #2055	11 Mar 85
Sonotrace 40, Batch #8767, Log #2456	29 Jun 87
Sonotrace 40, Batch #8662, Log #2402B	17 Oct 86

## APPENDIX E

## LISTING OF CERTIFIED MATERIAL AND EQUIPMENT (CONT'D)

EQUIPMENT

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
Pyrometer, Dayton, Quick Temp	086	13 Aug 87
Pyrometer, Dayton, Quick Temp	090	24 Jun 87
Pyrometer, Amprobe, Fastemp	096	26 Oct 87
Pyrometer, Amprobe, Fastemp	108	12 Mar 87
Pyrometer, Amprobe, Fastemp	112	24 Jun 87
Pyrometer, Amprobe, Fastemp	113	12 Mar 87
		26 Oct 87
Pyrometer, Amprobe, Fastemp	118	01 Apr 87
		13 Aug 87
Pyrometer, Amprobe, Fastemp	123	24 Jun 87
Pyrometer, Amprobe, Fastemp	138	24 Jun 87
Pyrometer, Amprobe, Fastemp	139	15 Jan 88
Pyrometer, Amprobe, Fastemp	144	24 Jun 87
Pyrometer, Amprobe, Fastemp	145	01 Apr 87
Pyrometer, Amprobe, Fastemp	146	01 Apr 87
		15 Jul 87
Pyrometer, Amprobe, Fastemp	148	24 Jun 87
Pyrometer, Amprobe, Fastemp	150	24 Jun 87
Pyrometer, Amprobe, Fastemp	151	13 Aug 87
Pyrometer, Amprobe, Fastemp	153	26 Oct 87
Pyrometer, Amprobe, Fastemp	154	15 Jul 87
		15 Jan 88
Pyrometer, Amprobe, Fastemp	156	04 Mar 87
Pyrometer, Amprobe, Fastemp	157	04 Mar 87
		26 Oct 87
Pyrometer, Amprobe, Fastemp	158	04 Mar 87
Pyrometer, Amprobe, Fastemp	159	04 Mar 87
Pyrometer, Amprobe, Fastemp	160	13 Jul 87
Pyrometer, Amprobe, Fastemp	161	04 Mar 87
Pyrometer, Amprobe, Fastemp	162	04 Mar 87
		15 Jul 87
Pyrometer, Amprobe, Fastemp	163	13 Aug 87
		15 Jan 88
Magnetic Particle Yoke, Parker	547	29 May 87
Magnetic Particle Yoke, Parker	800	20 Apr 87
Magnetic Particle Yoke, Parker	801	30 Sep 87
Magnetic Particle Yoke, Parker	5841	20 Apr 87
Magnetic Particle Yoke, Whiteline	WL-1-1	30 Sep 87
Magnetic Particle Yoke, Whiteline	WL-1-2	20 Apr 87
Magnetic Particle Yoke, Whiteline	WL-1-9	30 Sep 87
Magnetic Particle Yoke, Whiteline	WL-1-13	20 Apr 87

## APPENDIX E

## LISTING OF CERTIFIED MATERIAL AND EQUIPMENT (CONT'D)

EQUIPMENT (CONT'D)

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
Magnetic Particle Yoke, Whiteline	WL-1-15	20 Apr 87
Magnetic Particle Yoke, Whiteline	WL-1-17	30 Sep 87
Magnetic Particle Calibration Block, 11.3 pounds	B70198-10, 12, 14, 15, 16, 24	17 Mar 81
Longwave Ultraviolet Intensity Meter, Blak-Ray J-221	11898	11 Aug 87
Longwave Ultraviolet Intensity Meter, Blak-Ray J-221	20924	11 Aug 87
Longwave Ultraviolet Intensity Meter, Blak-Ray J-221	20927	08 Dec 87
Longwave Ultraviolet Intensity Meter, Blak-Ray J-221	26058	08 Dec 87
Tektronix Oscilloscope	B010385	09 Oct 87
Tektronix Oscilloscope	B011514	04 Jun 87
Tektronix Oscilloscope	B012689	26 May 87
5103N Oscilloscope	12007	29 Jul 87
5103N Oscilloscope	12009	28 Jul 87
Pressure Gauge, U.S. Gauge, Model #0-100PSI	1480	08 Oct 87
Pressure Gauge, U.S. Gauge, Model #27827-1	N/A	08 May 86
Brush 481 Recorder	00943	08 Jun 87
Brush 481 Recorder	01189	02 Jun 87
Sonic MK II	05325E	02 Feb 87
Sonic MK II	05326E	02 Feb 87
Sonic MK II	771216	11 Feb 87
Sonic MK II	771217	11 Feb 87
Sonic MK II	771218	11 Feb 87
Sonic MK II	792026	11 Feb 87
Sonic FTS MK I	01103E	13 Mar 87
		20 Aug 87
		17 Dec 87
Sonic FTS MK I	01104E	19 Aug 87
Sonic FTS MK I	01105E	17 Nov 87
Sonic FTS MK I	01110E	16 Jul 87
		18 Nov 87
Sonic FTS MK I	01112E	04 Jan 88
Sonic FTS MK I	01114E	26 May 87
Sonic FTS MK I	01117E	24 Nov 87
Sonic FTS MK I	01118E	19 Mar 87
		13 Jan 88
Sonic FTS MK I	01119E	13 May 87
		17 Nov 87
Sonic FTS MK I	01120E	27 May 87
Sonic FTS MK I	01122E	22 May 87

APPENDIX E

LISTING OF CERTIFIED MATERIAL AND EQUIPMENT (CONT'D)

EQUIPMENT (CONT'D)

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
Sonic FTS MK I	04324E	13 May 87 03 Sep 87 10 Nov 87
Sonic FTS MK I	04326E	20 Nov 87
Sonic FTS MK I	04327E	27 Mar 87 18 Dec 87
Sonic FTS MK I	04328E	16 Oct 87
Sonic FTS MK I	04329E	06 May 87 01 Oct 87
Sonic FTS MK I	06580E	16 Jul 87
Sonic FTS MK I	06582E	10 Feb 87 09 Jul 87 19 Nov 87
Sonic FTS MK I	06907E	18 Mar 87
Sonic FTS MK I	07010E	15 Jul 87
Sonic FTS MK I	07011E	05 Oct 87
Sonic FTS MK I	740518	18 Nov 87
Sonic FTS MK I	760811	17 Mar 87
Sonic FTS MK I	774121	13 Jan 88
Sonic FTS MK I	774123	01 Apr 87
Sonic FTS MK I	774206	14 Jul 87
Sonic FTS MK I	774711	10 Jul 87
Sonic FTS MK I	774712	12 May 87
Sonic FTS MK I	774713	21 Oct 87
Sonic FTS MK I	780415	27 Mar 87
Sonic FTS MK I	780417	10 Jul 87
Sonic FTS MK I	780419	30 Jun 87 22 Dec 87

TRANSDUCERS

Manual

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
Aerotech	1	09 Jun 87
Aerotech	11798	08 Jan 88
Aerotech	11802	08 Jan 88
Aerotech	013080	08 Jan 88
Aerotech	013088	08 Jan 88
Aerotech	013185	10 Apr 87

APPENDIX E

LISTING OF CERTIFIED MATERIAL AND EQUIPMENT (CONT'D)

TRANSDUCERS (CONT'D)

Manual (Cont'd)

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
Aerotech	013624	11 Nov 87
Aerotech	013719	05 Feb 87
		01 Oct 87
Aerotech	014280	22 Jun 87
Aerotech	014290	05 Nov 87
Aerotech	015840	05 Nov 87
Aerotech	016264	08 Jan 88
Aerotech	A11507	10 Jul 87
Aerotech	A11510	02 Dec 86
Aerotech	A13432	04 Dec 87
Aerotech	B09696	09 Apr 87
		21 Oct 87
Aerotech	B24653	03 Nov 87
Aerotech	B24656	03 Nov 87
Aerotech	C	28 Oct 87
Aerotech	C01470	09 Jun 87
Aerotech	C03839	03 Nov 87
Aerotech	C09314	10 Jul 87
Aerotech	C09315	09 Jun 87
Aerotech	C12683	14 May 87
Aerotech	C16445	23 Jan 87
Aerotech	C26456	14 May 87
Aerotech	C26657	09 Jun 87
Aerotech	D02607	21 Jul 87
Aerotech	D02608	18 May 87
		08 Jan 88
Aerotech	D02611	02 Feb 87
Aerotech	D08506	22 Apr 87
Aerotech	D10949	25 Jun 87
Aerotech	D24499	04 Dec 87
Aerotech	E15545	09 Apr 87
Aerotech	E15546	14 May 87
		21 Oct 87
Aerotech	E15547	14 May 87
		21 Oct 87
Aerotech	E15548	14 May 87
		21 Oct 87
Aerotech	E15549	14 May 87
		21 Oct 87

APPENDIX E

LISTING OF CERTIFIED MATERIAL AND EQUIPMENT (CONT'D)

TRANSDUCERS (CONT'D)

Manual (Cont'd)

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
Aerotech	G03411	09 Apr 87
Aerotech	G21651	10 Sep 87
Aerotech	G21654	22 Apr 87
Aerotech	G22568	20 Apr 87
		21 Oct 87
Aerotech	H22991	08 Jun 87
Aerotech	JD1760	12 Jun 87
Aerotech	K18433	09 Apr 87
		21 Oct 87
Aerotech	K20620	18 May 87
Aerotech	K20629	22 Apr 87
Aerotech	K20632	01 May 87
Aerotech	K25216	09 Feb 87
Aerotech	K25224	25 Jun 87
Aerotech	K26280	06 May 87
Aerotech	KB2929	18 May 87
		20 Sep 87
Aerotech	L15871	30 Jul 87
Aerotech	X500	05 Nov 87
Materials Assurance	E7538	08 Jan 88
SwRI	193	01 May 87
SwRI	377	12 Jun 87
SwRI	784	10 Feb 87
		01 Oct 87
SwRI	817	08 Jan 88
SwRI	846	14 Jan 88
SwRI	868	18 Jun 87
SwRI	872	11 Aug 87
SwRI	1051	10 Apr 87
SwRI	1058	28 Oct 87
SwRI	1065	02 Dec 87
SwRI	1079	07 Aug 87
SwRI	1120	02 Dec 87
SwRI	1123	31 Mar 87
SwRI	1125	31 Mar 87
SwRI	1190	27 Oct 87
SwRI	1239	14 May 87
SwRI	1525	16 Jun 87
SwRI	1551	17 Jun 87

APPENDIX E

LISTING OF CERTIFIED MATERIAL AND EQUIPMENT (CONT'D)

TRANSDUCERS (CONT'D)

Manual (Cont'd)

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
SwRI	1583	14 Jan 88
SwRI	1586	20 Jul 87
SwRI	1588	07 Aug 87
SwRI	1648	22 Apr 87
SwRI	1656	09 Feb 87
		11 Aug 87
SwRI	1789	15 Jul 87
SwRI	1790	31 Mar 87
SwRI	1792	02 Dec 87
SwRI	1794	09 Jun 87
SwRI	1795	17 Jun 87
SwRI	1800	02 Dec 87
SwRI	1801	08 Jun 87
SwRI	1821	20 Jul 87
SwRI	1845	27 Oct 87
SwRI	1861	11 Aug 87
SwRI	1897	12 Jun 87
SwRI	1966	03 Apr 87
SwRI	1967	12 Jan 88
SwRI	2015	05 Feb 87
SwRI	2043	10 Sep 87
SwRI	2055	31 Mar 87
SwRI	2167	23 Sep 87
SwRI	2206	24 Nov 87
SwRI	2252	11 Jan 88
SwRI	2254	11 Jan 88
SwRI	2466	06 Apr 87
SwRI	2521	05 Nov 87
SwRI	2545	10 Sep 87
SwRI	2546	12 Jun 87
SwRI	2548	06 Apr 87
SwRI	2549	24 Nov 87
SwRI	2551	12 Jun 87
SwRI	2553	15 Jul 87
SwRI	2577	27 Mar 87
SwRI	2579	27 Mar 87
SwRI	2581	27 Mar 87
		23 Sep 87

APPENDIX E

LISTING OF CERTIFIED MATERIAL AND EQUIPMENT (CONT'D)

TRANSDUCERS (CONT'D)

Manual (Cont'd)

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
SwRI	2620	27 Mar 87
SwRI	2671	20 May 87
SwRI	2675	06 Apr 87
SwRI	2676	12 Jun 87
SwRI	2681	12 Jun 87
SwRI	2783	16 Jan 87
SwRI	2784	16 Jan 87
		15 Jul 87
SwRI	2786	20 Apr 87
		30 Jul 87
SwRI	2787	08 Jun 87
SwRI	2788	08 Jan 87
SwRI	2789	16 Jan 87
		15 Jul 87
SwRI	2832	20 Apr 87
		08 Jan 88
SwRI	2854	21 Oct 87
SwRI	2855	08 Jun 87
SwRI	2856	10 Sep 87
SwRI	2857	31 Mar 87
SwRI	2858	16 Jun 87
SwRI	2859	15 Jul 87
SwRI	2860	21 Oct 87
SwRI	2861	21 Oct 87
SwRI	2863	31 Mar 87
SwRI	2882	31 Mar 87
SwRI	2885	31 Mar 87
SwRI	2894	30 Apr 87
SwRI	2923	20 Jan 87
		23 Jul 87
SwRI	2925	03 Feb 87
SwRI	2930	20 Jan 87
		30 Jul 87
SwRI	2931	15 Jul 87
SwRI	2932	06 Feb 87
SwRI	2955	19 Feb 88
SwRI	2979	20 Apr 87
		08 Jan 88



## APPENDIX E

## LISTING OF CERTIFIED MATERIAL AND EQUIPMENT (CONT'D)

TRANSDUCERS (CONT'D)Manual (Cont'd)

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
SwRI	2980	20 Apr 87
		01 Oct 87
SwRI	2981	08 Jun 87
		08 Jan 88
SwRI	2982	22 May 87
		08 Jan 88
SwRI	2983	22 May 87
		08 Jan 88
SwRI	2984	20 Apr 87
		01 Oct 87
SwRI	3006	23 Sep 87
SwRI	3007	04 Aug 87
SwRI	3009	04 Aug 87
SwRI	3049	31 Jul 87
SwRI	3050	31 Jul 87
SwRI	3051	31 Jul 87
SwRI	3052	31 Jul 87
SwRI	3054	19 May 87
		02 Mar 88
SwRI	3059	20 Aug 87
SwRI	3110	20 May 87
SwRI	3129	19 May 87
SwRI	3131	19 May 87
SwRI	3182	28 Oct 87
SwRI	3193	28 Oct 87
SwRI	3222	14 Oct 87
SwRI	3224	14 Oct 87
SwRI	3360	15 Sep 87
SwRI	3361	21 Sep 87

Mechanized

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
Aerotech	013066M	08 Jun 87
SwRI	2505	11 Jun 87
SwRI	2510	11 Jun 87
SwRI	3303	10 Jun 87

APPENDIX E

LISTING OF CERTIFIED MATERIAL AND EQUIPMENT (CONT'D)

TRANSDUCERS (CONT'D)

Mechanized (Cont'd)

<u>Brand</u>	<u>Serial No.</u>	<u>Date</u>
SwRI	3304	10 Jun 87
SwRI	3305	10 Jun 87
SwRI	3313	10 Jun 87
SwRI	3316	10 Jun 87
SwRI	3318	10 Jun 87
SwRI	M0110	12 May 87
SwRI	M0111	12 May 87
SwRI	M0113	11 Jun 87

APPENDIX F

CLASS 1 WELD IDENTIFICATION FIGURES

## APPENDIX F

## CLASS 1 WELD IDENTIFICATION FIGURES

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A-PRZ-1	Pressurizer	F-6
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A-RC-5	16-RC-2412-NSS	F-13
A-RC-6	6-RC-2004-NSS, 3-RC-2009-NSS, 6-RC-2012-NSS	F-14
A-RC-7	6-RC-2015-NSS, 3-RC-2015-NSS	F-15
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A-RC-9	12-RC-2125-BB1, 12-RC-2221-BB1	F-17
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A-RC-16	2-RC-2120-BB1, 2-RC-2121-BB1	F-24
A-RC-17	2-RC-2219-BB1, 2-RC-2220-BB1	F-25
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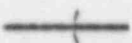

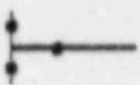



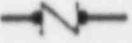

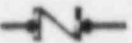
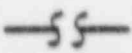
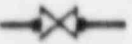



APPENDIX F

CLASS 1 WELD IDENTIFICATION FIGURES









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<u>Figure No.</u>	<u>Title</u>	<u>Page</u>
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A-SI-5	8-SI-2327-BB1, 6-SI-2308-BB1, 6-SI-2327-BB1	F-45
A-RCP-1	Reactor Coolant Pumps 2A, 2B, 2C, 2D	F-46
A-RCP-2	RCP Flywheel-RC Pumps 2A, 2B, 2D	F-47
A-RCP-3	RCP Flywheel-RC Pump 2C	F-48

## SYMBOLS FOR WELD IDENTIFICATION

	BRANCH CONNECTION		REDUCER
	CLASS BOUNDARY		SHOP WELD
	ELBOW		SOCKET WELD
	FIELD WELD		TEE
	FLANGE		VALVE RELIEF
	FLOOR/GRATING		VALVE CHECK
	FLOW DIRECTION		VALVE CHECK (FLANGED)
	LINE BREAK		VALVE OTHER
	LINE CONTINUATION		VALVE OTHER (FLANGED)
			WALL

## SYMBOLS FOR WELD SCHEDULE/CLASSIFICATION

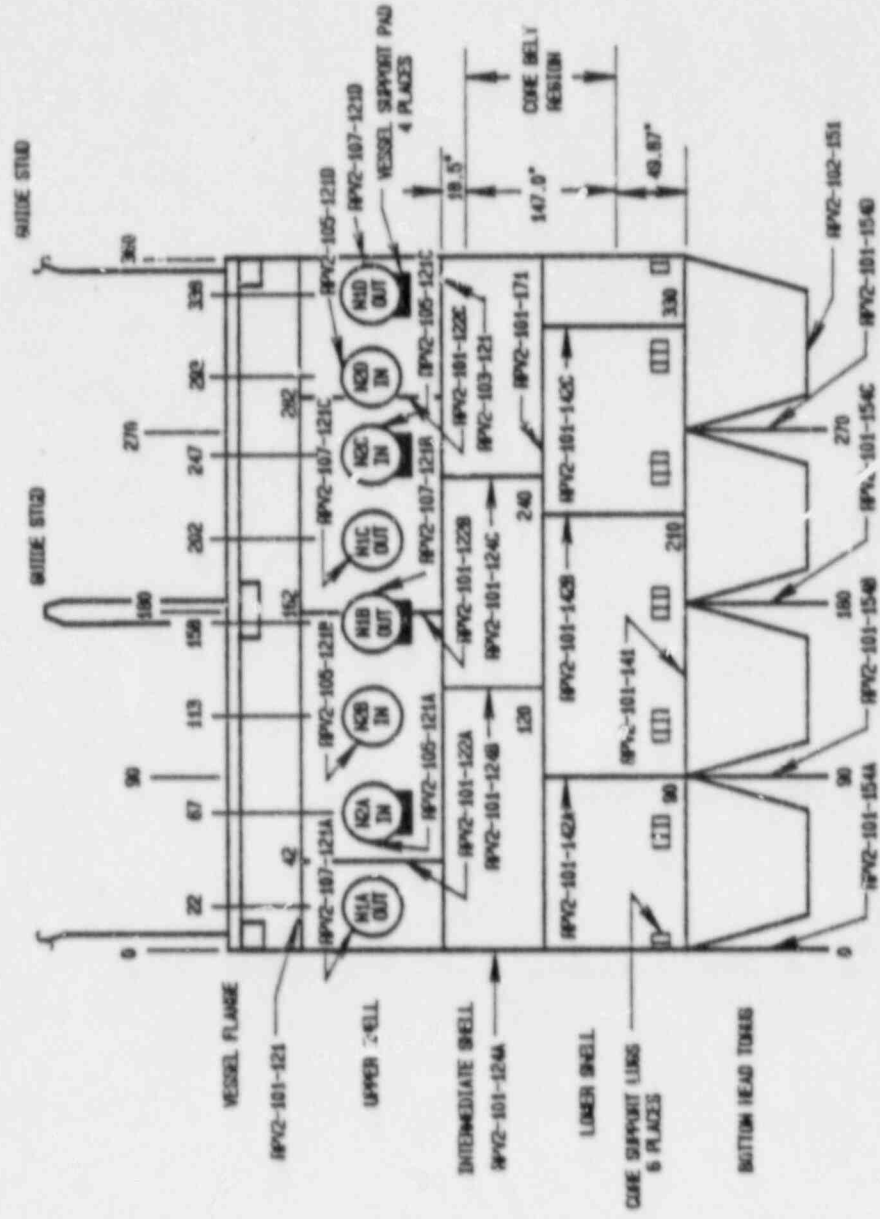
	ISI WELD - FIRST PERIOD		TERMINAL END
	ISI WELD - SECOND PERIOD		AUGMENTED ISI
	ISI WELD - THIRD PERIOD		HIGH STRESS/USAGE FACTOR WELD (MANDATORY ISI)
			DISSIMILAR METAL WELD (MANDATORY ISI)
			TERMINAL END (MANDATORY ISI)



SOUTHWEST RESEARCH INSTITUTE

REF. DRAWINGS

- CE E-12173-121-C01, REV. 0
- CE E-12173-121-003, REV. 0
- CE E-12173-121-005, REV. 1
- CE E-12171-122-001, REV. 1
- CE E-12173-124-001, REV. 0
- CE D-12173-126-001, REV. 2
- CE E-12173-141-001, REV. 0
- CE E-12173-142-001, REV. 1
- CE D-12173-151-001, REV. 0
- CE D-12173-152-001, REV. 0
- CE E-12173-154-001, REV. 0
- CE E-12173-161-001, REV. 3
- CE E-12173-161-002, REV. 5
- CE E-12173-161-003, REV. 4
- CE E-12173-161-004, REV. 0
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- CE E-12173-171-004, REV. 2



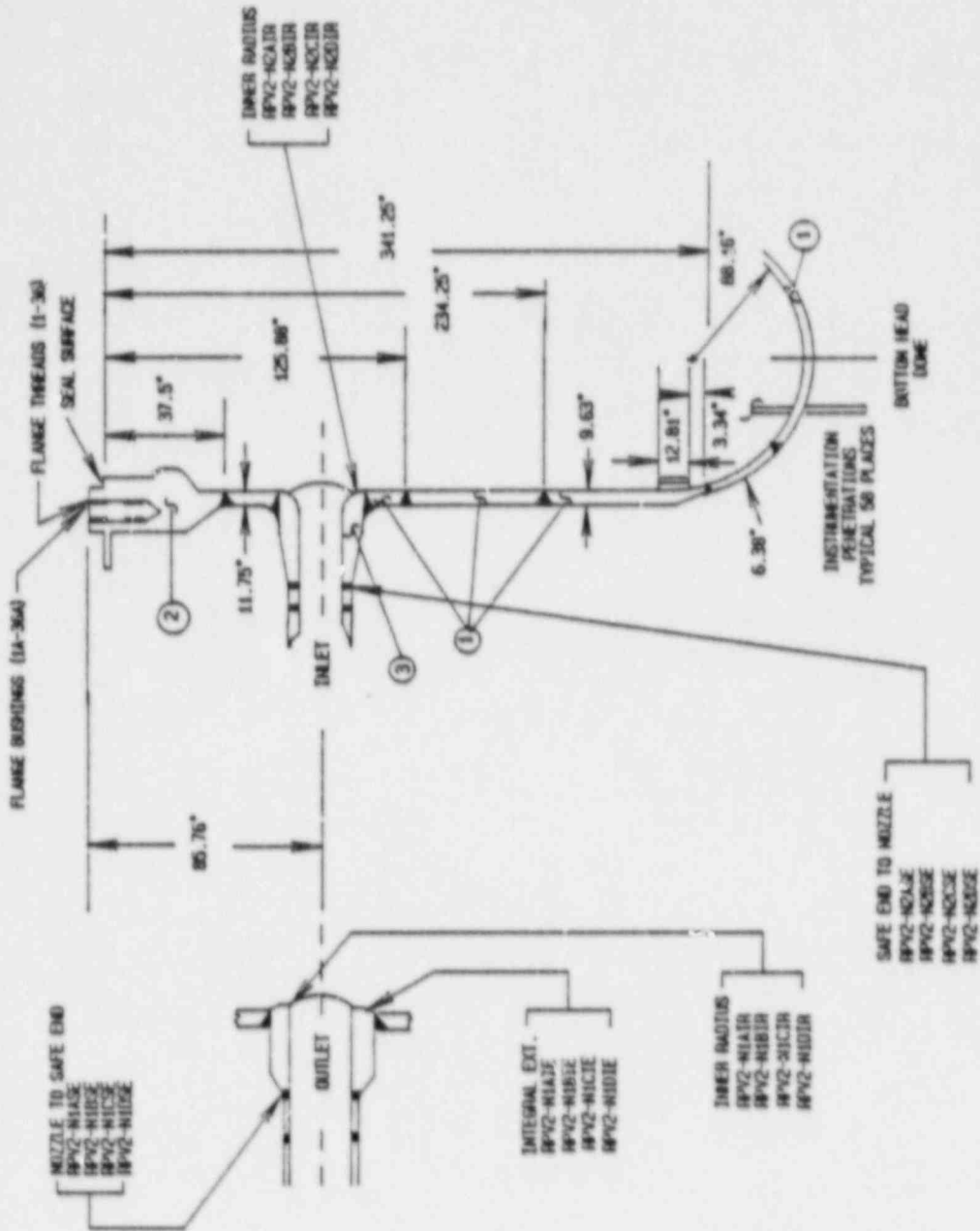
SERIAL NO.: 12173  
 NAT. NO.: 22391

COMPONENT:	REACTOR PRESSURE VESSEL
INSP. METHOD:	UT, PT, VT
SUPPLIER:	(Logo)

SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2  
 FIGURE A-16V-1 REV. 1



SOUTHWEST RESEARCH INSTITUTE



- MATERIAL**
- ① SA 533 GR B CL 1 CLAD
  - ② SA 508 CL 2 CLAD
  - ③ NOZZLE - SA508 CL 2 CLAD
- SAFE END - SA 182 TYPE F-316
- REF. DRAWINGS**
- CE E-12173-121-001, REV. 0
  - CE E-12173-121-903, REV. 0
  - CE E-12173-121-005, REV. 1
  - CE E-12171-122-001, REV. 1
  - CE E-12173-124-001, REV. 0
  - CE D-12173-128-001, REV. 2
  - CE E-12173-141-001, REV. 0
  - CE E-12173-142-001, REV. 1
  - CE D-12173-151-001, REV. 0
  - CE D-12173-152-001, REV. 0
  - CE E-12173-154-001, REV. 0
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  - CE E-12173-161-002, REV. 2
  - CE E-12173-161-003, REV. 4
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  - CE E-12173-171-004, REV. 2

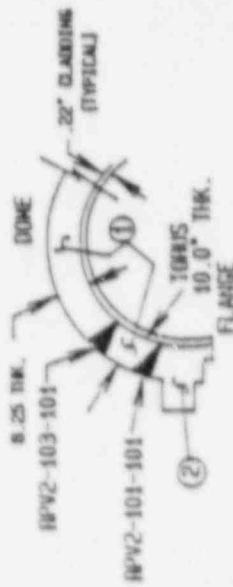
COMPONENT: REACTOR PRESSURE VESSEL  
 INSP. METHOD: UT, PT, VT  
 SUPPL. I.E.R. (H)

SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2  
 FIGURE A-1PV-2 REV. 1

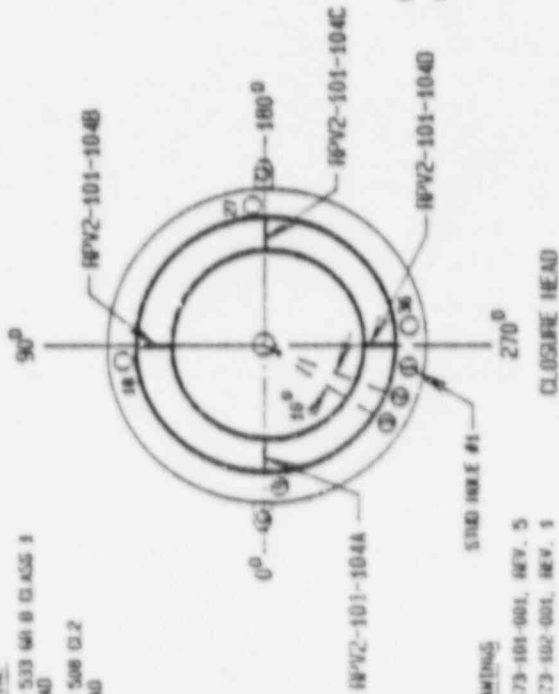




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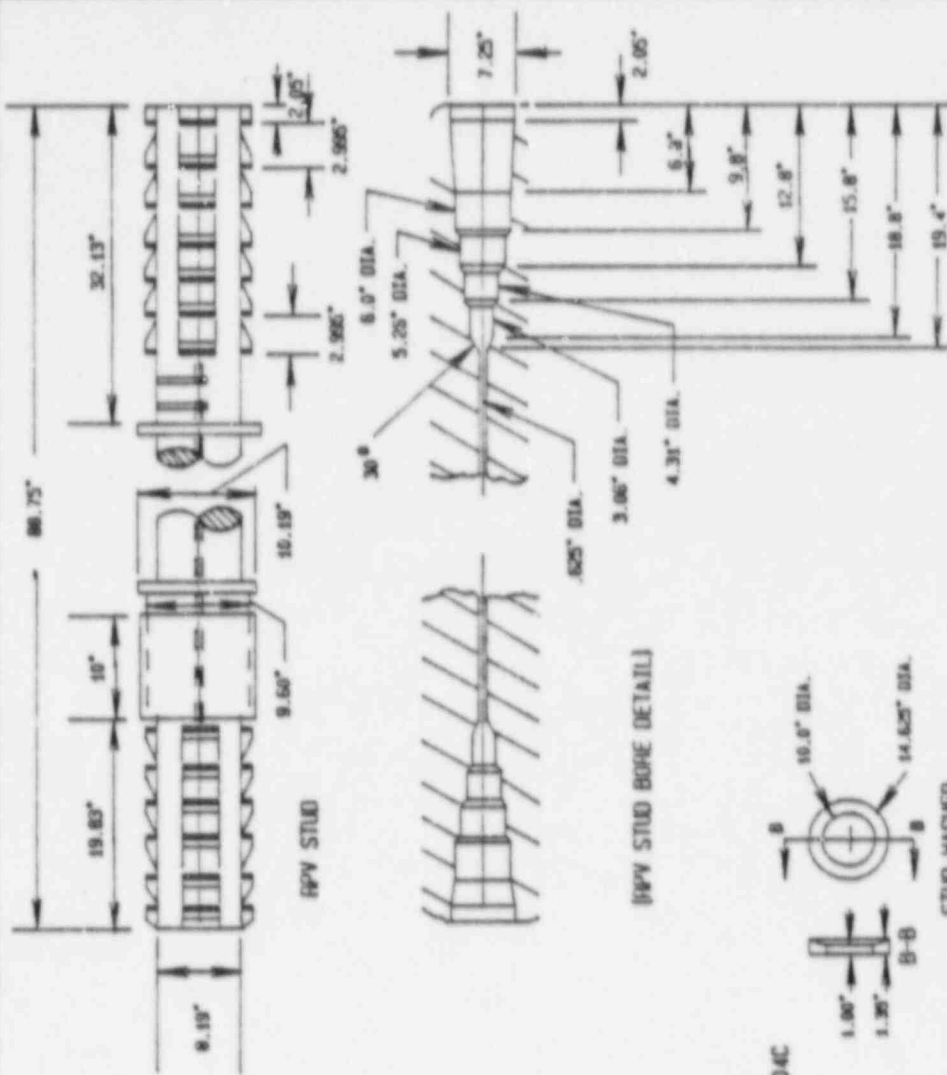
- MATERIAL**
- ① SA 533 GR B CLASS 3 CLAD
  - ② SA 508 G.2 CLAD



REF. DRAWINGS

- DE E-12173-101-001, REV. 5
- DE D-12173-102-001, REV. 1
- DE E-12173-104-001, REV. 0
- DE D-12173-106-001, REV. 1
- DE E-12173-179-00A, REV. 2
- DE E-12173-179-002, REV. 2

COMPONENT: HPV CLOSURE HEAD ASSEMBLY  
 INSP. METHOD: UT, MI, PT, VT  
 SUPPL. ICF: (B)

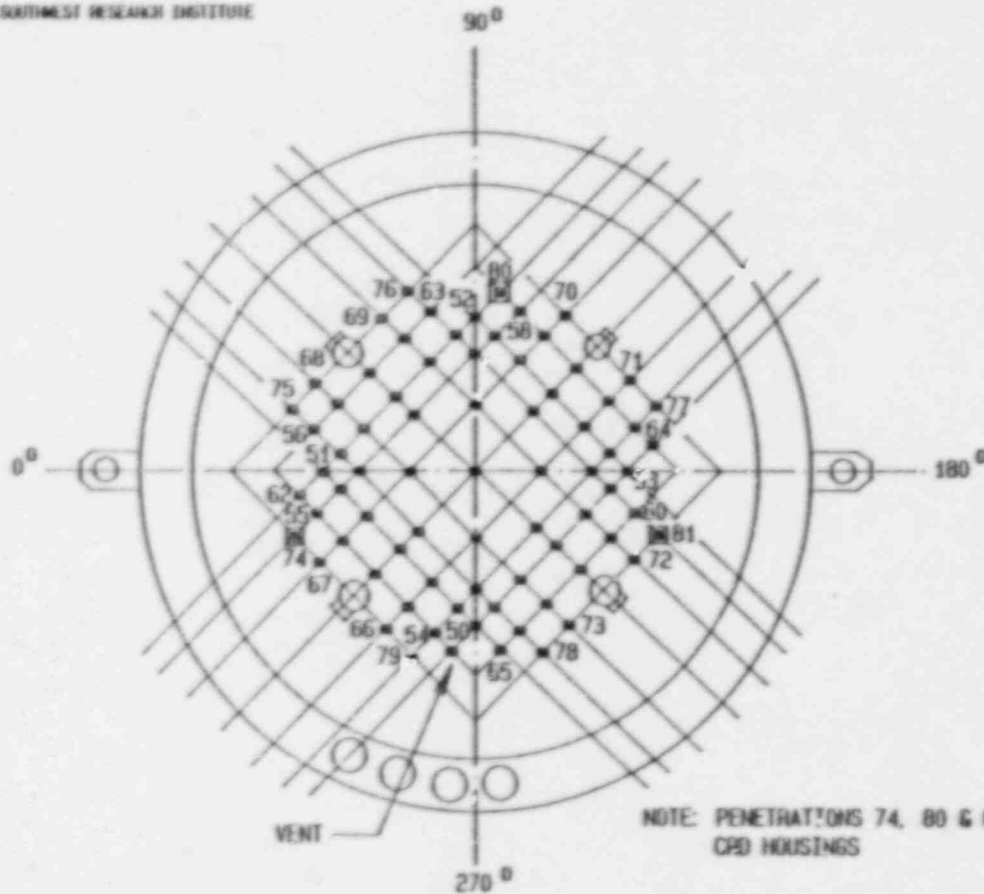


SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2

FIGURE A-HPV-3 REV. 0



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NOTE: PENETRATIONS 74, 80 & 81 ARE NOT CRD HOUSINGS

MATERIAL

① SA-182, F-304

② SB-167

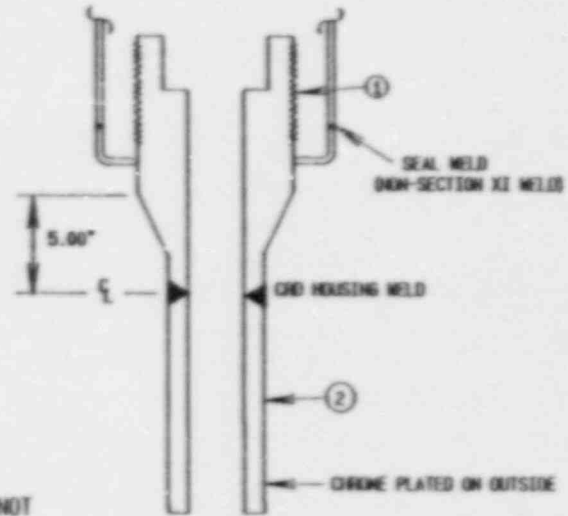
REF. DRAWINGS

CE E-12173-101-002, REV. 4

CE E-STD11-101-013, REV. 3

CE E-12173-112-002, REV. 3

CE E-12173-112-003, REV. 1



COMPONENT: RPV CONTROL ROD DRIVE HOUSINGS

INSP. METHOD: PT

SUPPLIER:

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2

FIGURE A-RPV-4

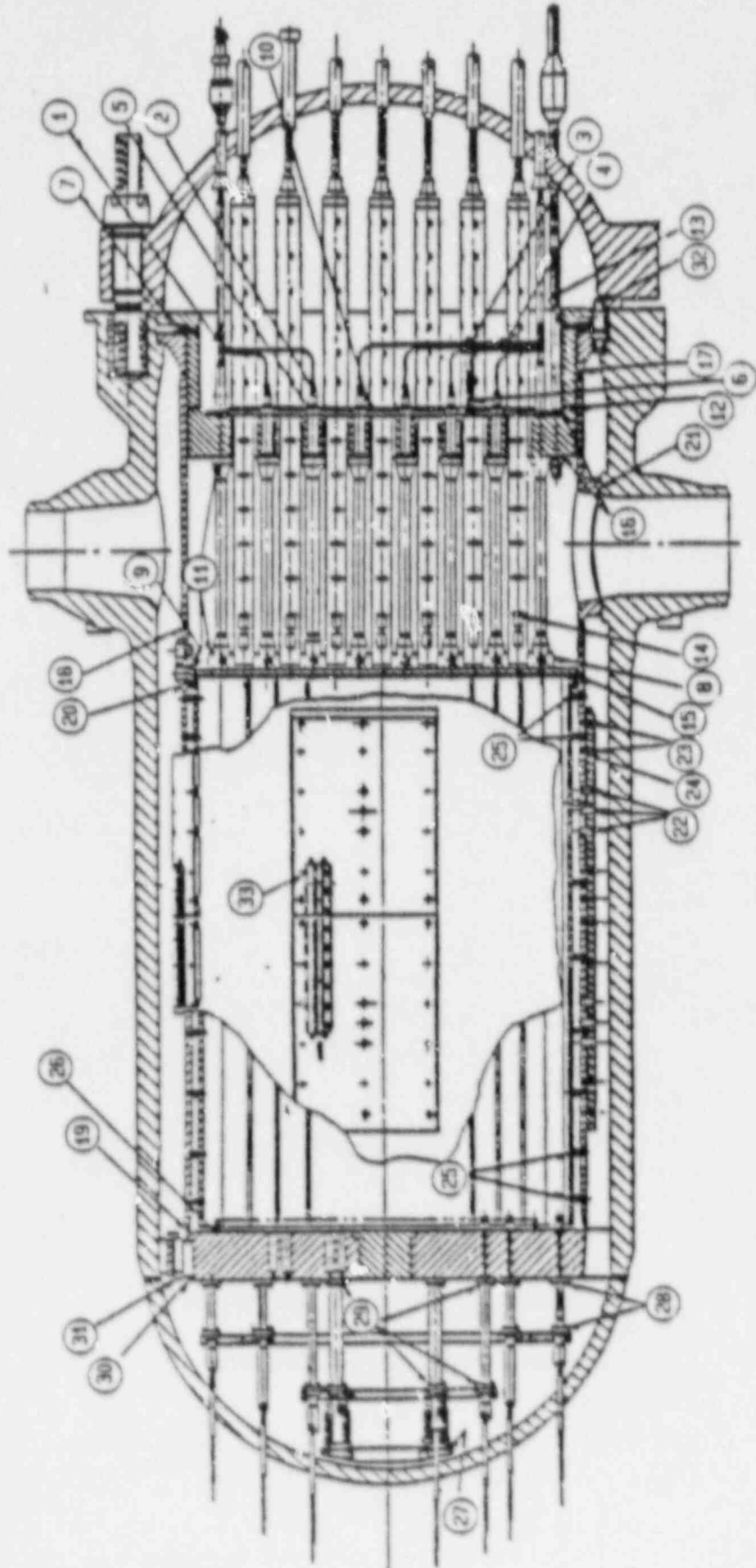
REV. 2



SOUTHWEST RESEARCH INSTITUTE

REF. DRAWING

6119E37-C



COMPONENT: IPW INTERNALS  
 INSP. METHOD: VT  
 SUBM. IER: (M)

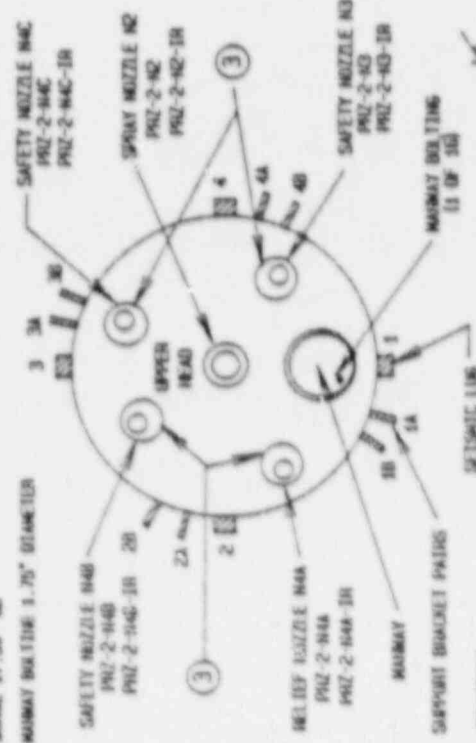
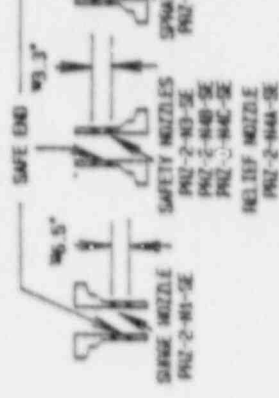
SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2  
 FIGURE 4-IPW-5 REV. 0



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**MATERIAL**

- ① SA 533 GR A CLASS 2  
CLAD 1.19 APPROX. THICKNESS
- ② SA 516 GR 70
- ③ NOZZLE-SA 308 CLASS 2A  
SAFE END-SA 182 GR 316  
SPRAY, SAFETY & RELIEF, 8" OD  
SARGE 17.50" OD
- ④ MAINWAY MULTINE 1.75" DIAMETER



**REF. DRAWINGS**

- ① 1100-044 SHIT, 1, REV. 7
- ② 1100-005 SHIT, 1, REV. 6
- ③ 1103-02C SHIT, 1, REV. 7
- ④ 1103-04C SHIT, 1, REV. 7
- ⑤ 1103-012C SHITS, 1 & 2, REV. 12
- ⑥ 1106-023 SHITS, 1, 2 & 3, REV. 1

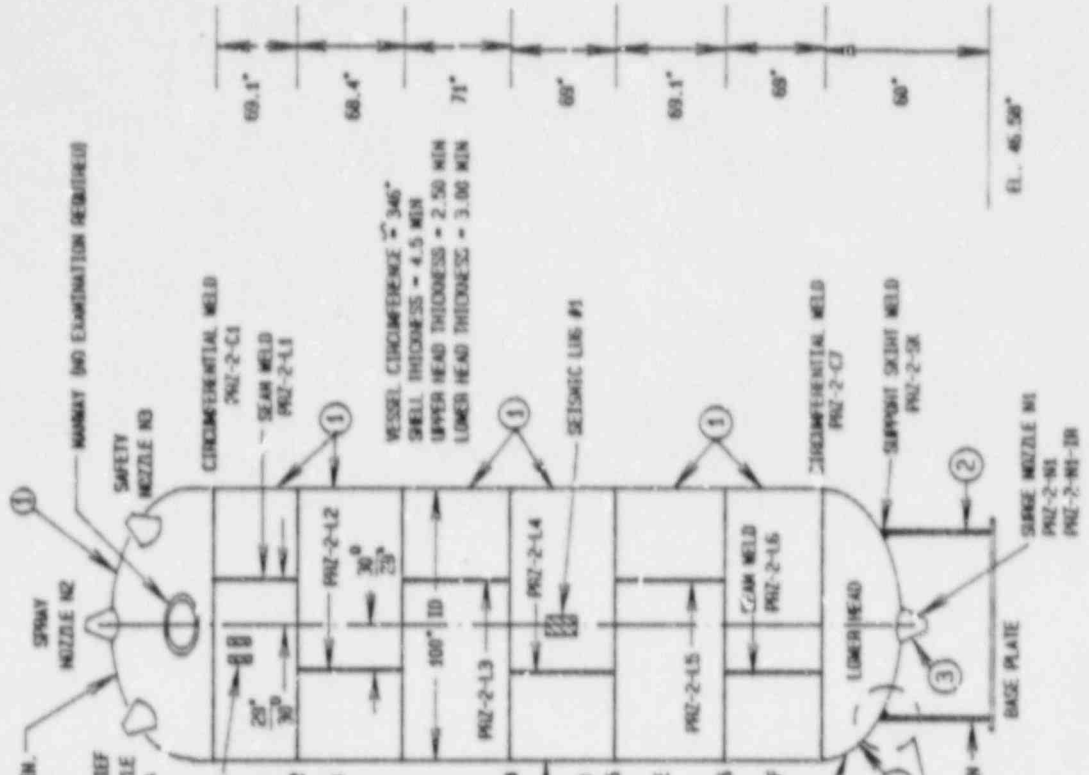
SERIAL NO.: 2161

NAT. BU. NO.: 19

COMPONENT: PRESSURIZER

INSP. METHOD: UT MT PT VT

SUPPL. I.E.F.C.

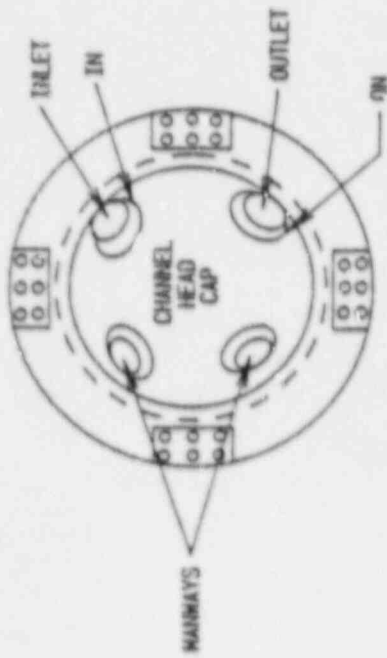


SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

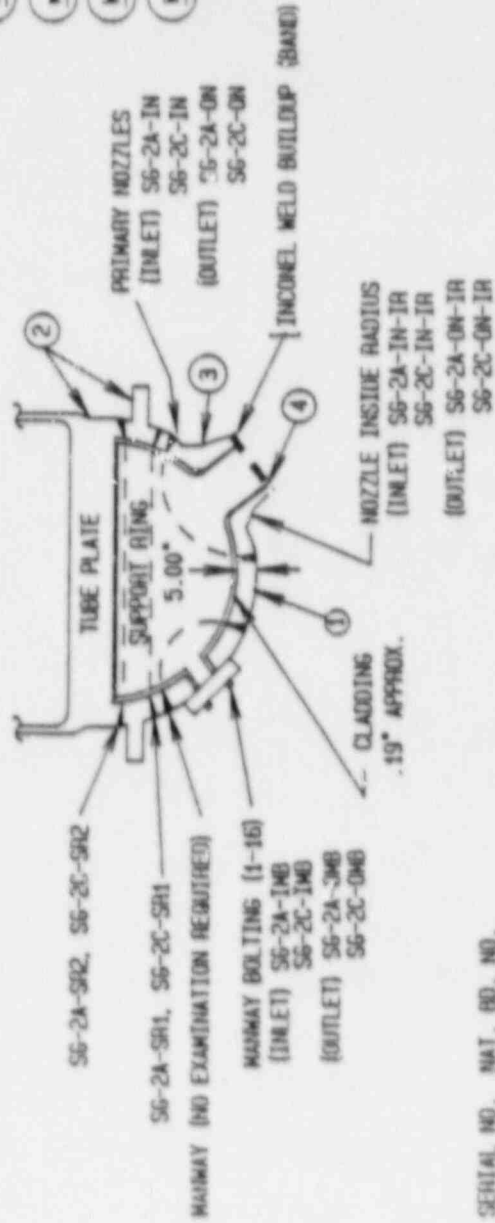
FIGURE A-PRZ-1 REV. 1



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STEAM GENERATORS 2A & 2C  
RIGHT HAND UNITS



**MATERIAL**

- ① SA 533 GR. B CLASS 2 CLAD
- ② SA 508 CLASS 2A CLAD
- ③ NOZZLE-SA508 CLASS 2A CLAD
- ④ INCONEL BAND
- ⑤ MAINWAY BOLTING 1.98" DIAMETER

**REF. DRAWINGS**

- ⑥ 1101.53 SHTS 1 & 2, REV. 10
- ⑦ 1101.54 SHTS 1 & 2, REV. 8
- ⑧ 1101.59C SHTS 1 & 2, REV. 11
- ⑨ 1103.69C SHTS 1 & 2, REV. 6
- ⑩ 6523018C SHT 1, REV. 6

SG MODEL NO.	SERIAL NO.	NAT.	BD. NO.
2A	E2	2151	29
2C	E2	2153	31

COMPONENT: STEAM GENERATORS 2A & 2C (PRIMARY SIDE)

INSP. METHOD: UT, PT, VT

SUPPLIER: (M)

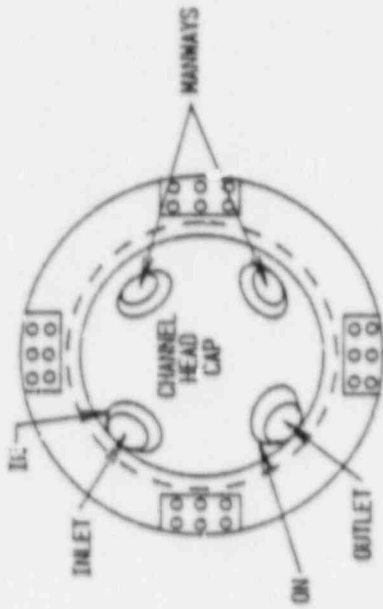
SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE A-SG-1

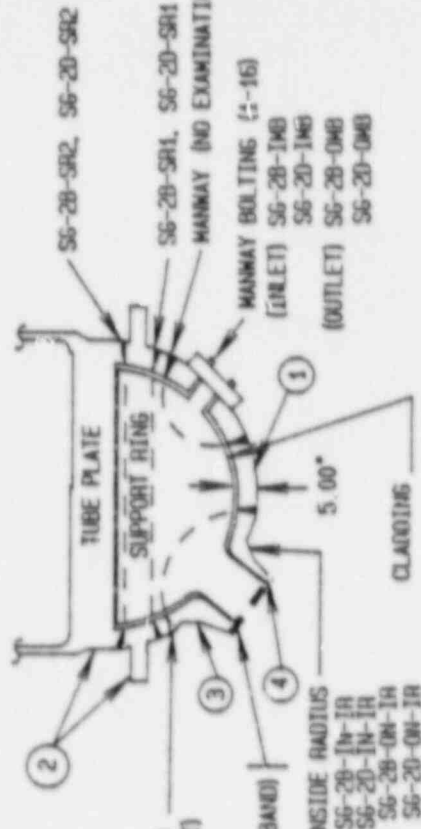
REV. 1



SOUTHWEST RESEARCH INSTITUTE



STEAM GENERATORS 2B & 2D  
LEFT HAND UNITS



.33\"

**MATERIAL**

- ① SA 533 GR. B CLASS 2 CLAD
- ② SA 508 CLASS 2A CLAD
- ③ NOZZLE-SA508 CLASS 2A CLAD
- ④ INCOREL BAND
- ⑤ MANWAY BOLTING 1.68\"

**REF. DRAWINGS**

- ① 1101.53 SHTS 1 & 2, REV. 10
- ② 1101.54 SHTS 1 & 2, REV. 8
- ③ 1101.90C SHTS 1 & 2, REV. 11
- ④ 1103.00/C SHTS 1 & 2, REV. 6
- ⑤ 6523019C SHIT 1, REV. 6

PRIMARY NOZZLES  
SG-2B-IN, SG-2D-IN (INLET)  
SG-2B-ON, SG-2D-ON (OUTLET)

INCOREL WELD BUILDUP (BAND)  
NOZZLE INSIDE RADIUS  
(INLET) SG-2B-IN-IR  
(OUTLET) SG-2D-IN-IR  
SG-2B-ON-IR  
SG-2D-ON-IR

SG	MODEL NO.	SERIAL NO.	NAT. BO. NO.
2B	E2	2152	30
2D	E2	2154	32

COMPONENT: STEAM GENERATORS 2B & 2D (PRIMARY SIDE)  
INSP. METHOD: UT, PT, VT  
SUPPLIER: (S)

SOUT:4 TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE A-56-2 REV. 1

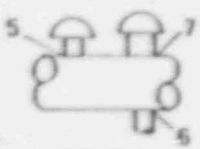


SOUTHWEST RESEARCH INSTITUTE

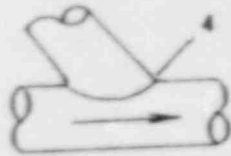
6-2



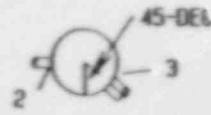
SECTION C-C



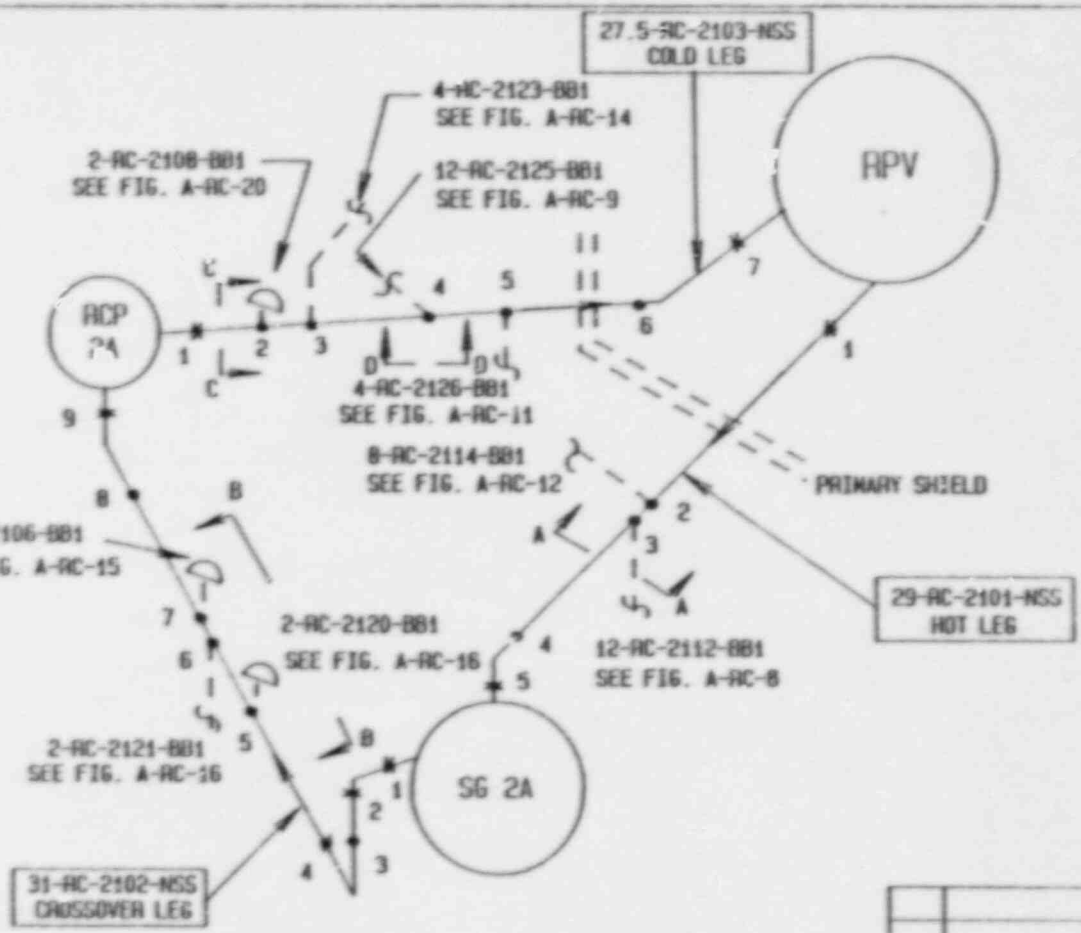
VIEW B-B



VIEW D-D



SECTION A-A



\* SE-18, MU-44, SS-49, CS-78, SS-79, CSS-80, SS-81, SS-82  
 \*\* SS-17, MU-44, SS-51, SS-77, CS-80

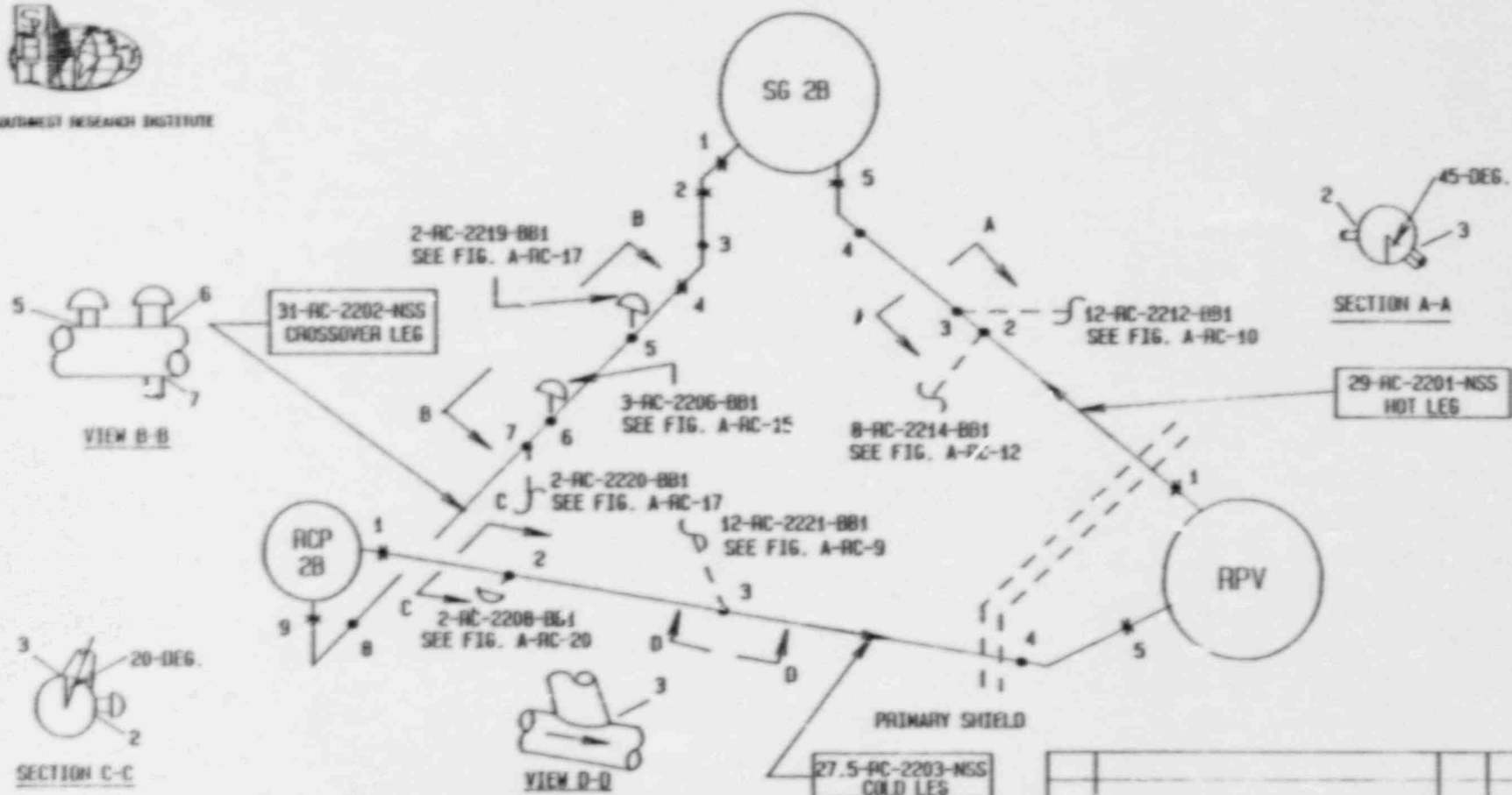
SYSTEM	REACTOR COOLANT		
LINE	31-RC-2102-NSS	29-RC-2101-NSS	27.5-RC-2103-NSS
NOM. THK. /SCH.	2.480	2.330	2.210
MATERIAL	SA-351-CF8A	SA-351-CF8A	SA-351-CF8A
WELD. METHOD	WEL./SUL.	WEL./SUL.	WEL./SUL.
CAL. BLOCK	SS-19, SS-77, CSS-80	*	**
KEY:	* SHOP WELD	* FIELD WELD	

NO.	8	1218E54 SHTS. 1 & 2, REV. 3	ENG	CHK	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2					
FIGURE	A-RC-1	REV.	0		
AREA					
P&ID	9FC5001				
SYSTEM ISO (S)	8	1218E54 SHTS. 1 & 2			



SOUTHWEST RESEARCH INSTITUTE

F-10



\* SS-18, MU-44, SS-49, CS-78, SS-79, CSS-80, SS-81, SS-82  
 \*\* SS-17, MU-44, SS-51, SS-77, CSS-80

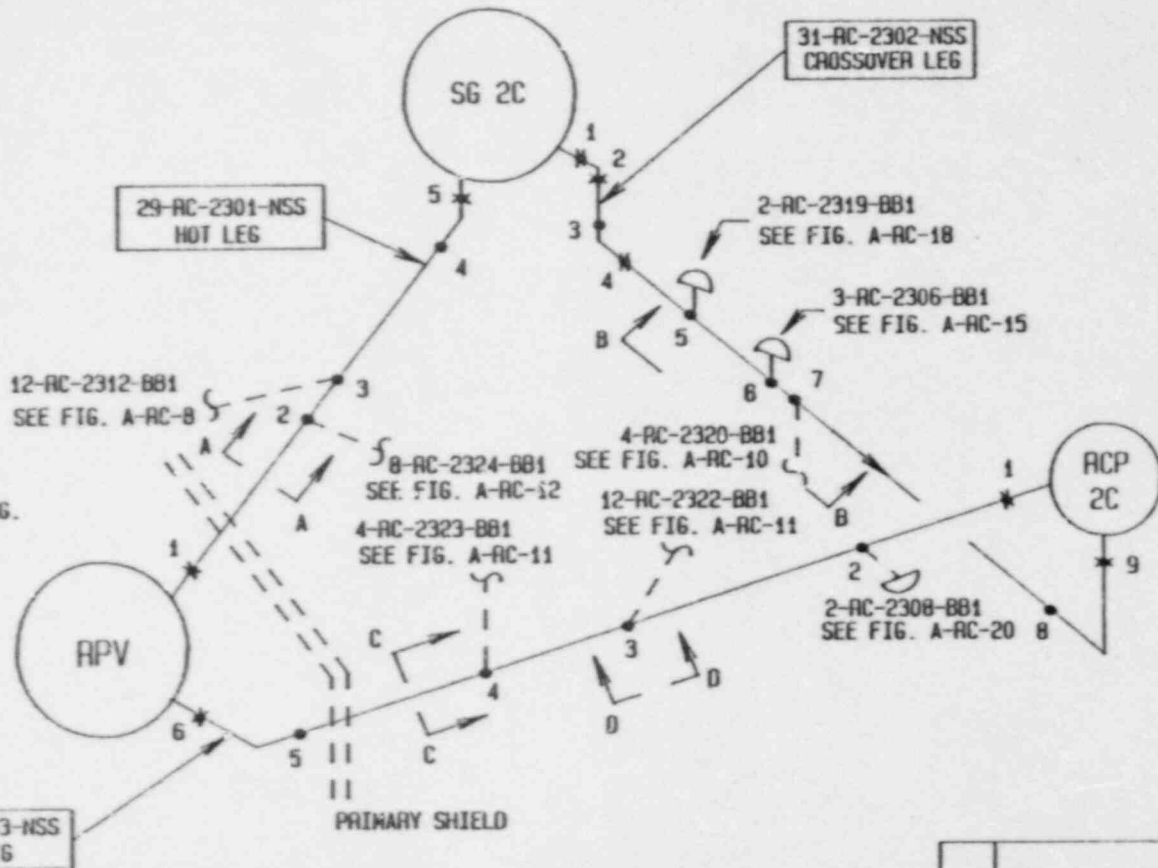
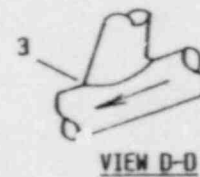
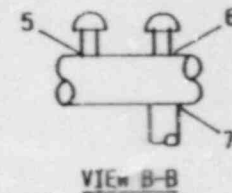
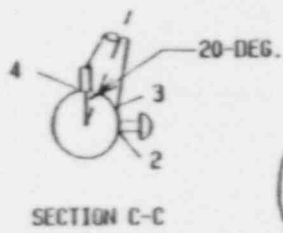
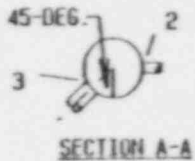
SYSTEM	REACTOR COOLANT		
L. LINE	31-RC-2202-NSS	29-RC-2201-NSS	27.5-RC-2203-NSS
NOM. THK. /SCH.	2.480	2.33P	2.210
MATERIAL	SA-351-CF8A	SA-351-L8A	SA-351-CF8A
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-19, SS-77, CSS-80	*	**
KEY:	• SHOP WELD	✱ FIELD WELD	

NO.	REVISION	ENG	CHK	DATE
0	(M) 1218F54 SHTS. 1 & 2, REV. 3			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE		A-RC-2 REV. 0		
AREA				
PGID		9F05001		
SYSTEM ISO (S)		(M) 1218F54 SHTS. 1 & 2		





SOUTHWEST RESEARCH INSTITUTE



\* SS-18, MU-44, SS-49, CS-78, SS-79, CSS-80, SS-81, SS-82  
 \*\* SS-17, MU-44, SS-51, SS-77, CSS-80

SYSTEM	REACTOR COOLANT		
LINE	31-RC-2302-NSS	29-RC-2301-NSS	27.5-RC-2303-NSS
NOM. THK. /SCH.	2.480	2.330	S.210
MATERIAL	SA-351-CF8A	SA-351-CF8A	SA-351-CF8A
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-19, SS-77, CSS-80	*	**

KEY: • SHOP WELD \* FIELD WELD

NO.	REVISION	ENG	CHKR	DATE
0	(M) 1218E54 SHTS. 1 & 2, REV. 3			

SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2

FIGURE A-RC-3 REV. 0

AREA

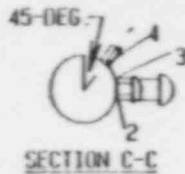
P&ID 9F05001

SYSTEM ISO (S) (M) 1218E54 SHTS. 1 & 2

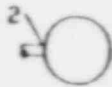
F-11



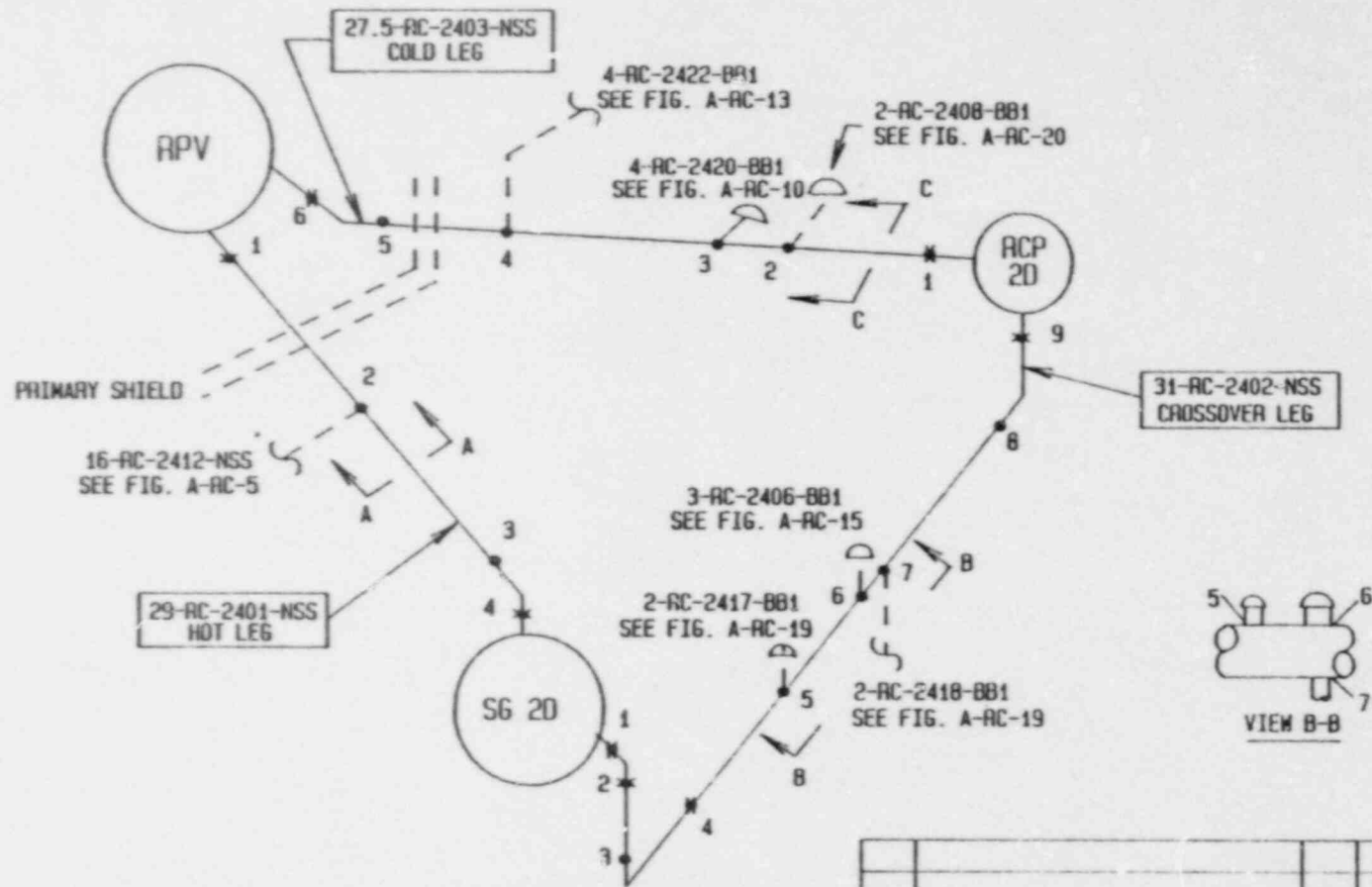
SOUTHWEST RESEARCH INSTITUTE



SECTION C-C



SECTION A-A



\* SS-18, NU-44, SS-49, CS-78, SS-79, CSS-80, SS-81, SS-82  
 \*\* SS-17, NU-44, SS-51, SS-77, CSS-80

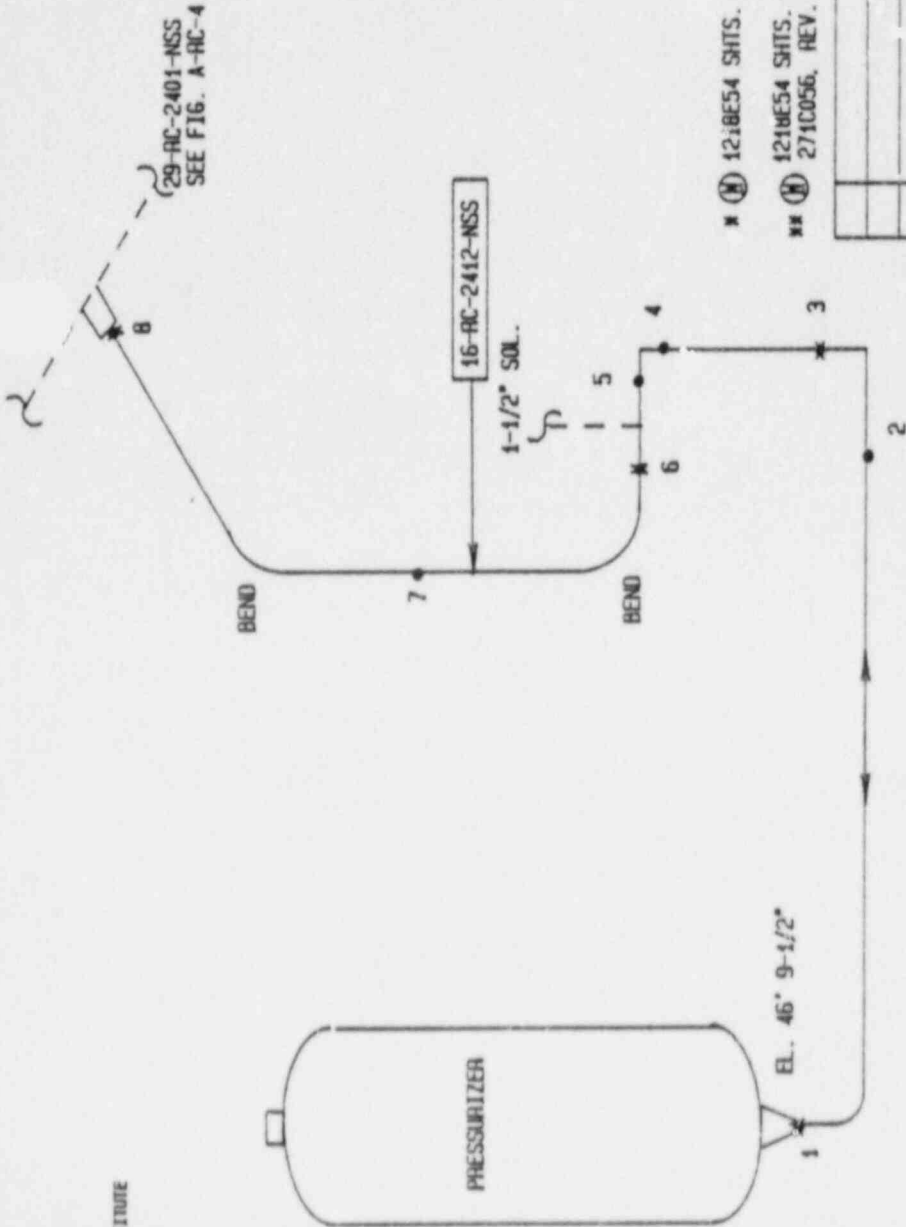
SYSTEM	REACTOR COOLANT		
LINE	31-RC-2402-NSS	29-RC-2401-NSS	27.5-RC-2403-NSS
NOM. THK. /SCH.	2.480	2.330	2.210
MATERIAL	SA-351-CF8A	SA-351-CF8A	SA-351-CF8A
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-19, SS-77, CSS-80	*	**
KEY:	● SHOP WELD	✕ FIELD WELD	

0	(M) 1218E54 SHTS. 1 & 2, REV. 3	Cam	Aug
NO.	REVISION	ENG	CKR DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	A-RC-4	REV.	0
AREA			
P&ID	9F05001		
SYSTEM	ISO (S)	(M) 1218E54 SHTS.	1 & 2



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NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



\* (M) 1218E54 SHTS. 1 & 2, 271C056  
 \*\* (M) 1218E54 SHTS. 1 & 2, REV. 3  
 271C056, REV. 3

SYSTEM	REACTOR COOLANT
LINE	16-RC-2412-NSS
NOM. THK. /SCH.	1.593/160
MATERIAL	SA-376 TP-316
INSP. METHOD	VOL./SU.
CAL. BLOCK	SS-16
KEY: • SHOP WELD	✕ FIELD WELD

NO.	0	NO.	0
DESIGN		DESIGN	
ENGINEER		ENGINEER	
DATE		DATE	
SOUTH TEXAS PROJECT ELECTRIC			
GENERATOR STATION UNIT 2			
FIGURE A-RC-5 REV. 0			
AREA			
P&ID 9F05003			
SYSTEM ISO (S) ✕			

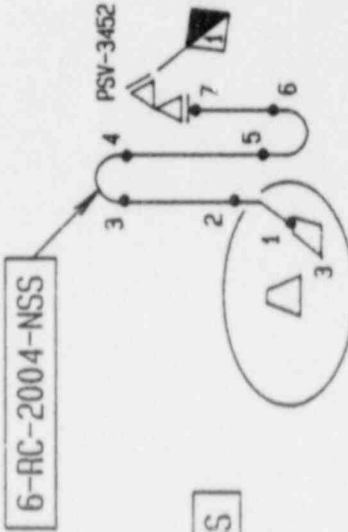
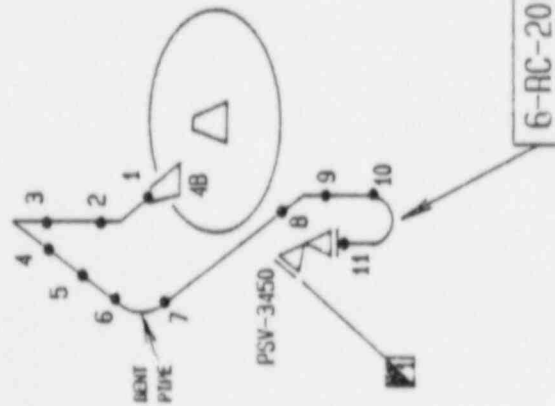
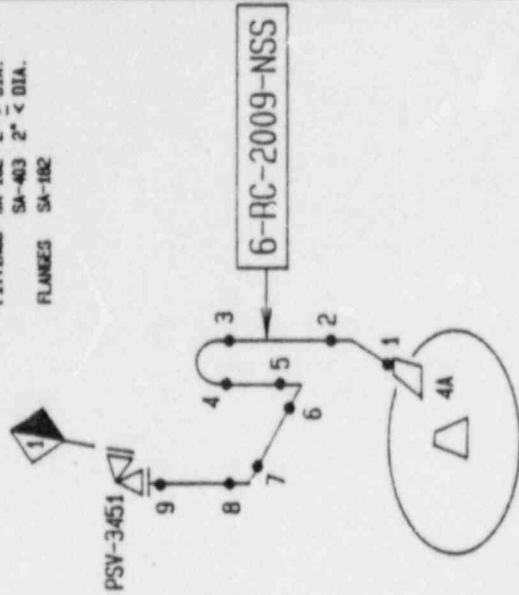


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PRESSURIZER HEAD  
NOZZLE LAYOUT

NOTES:  
1. OTHER MATERIALS  
FITTINGS SA-192 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-192



SYSTEM			REACTOR COOLANT		
LINE	6-RC-2004-NSS	6-RC-2009-NSS	6-RC-2012-NSS		
NOM. THK. /SCH	0.719/160	0.719/160	0.719/160		
MATERIAL	SA-376	SA-376	SA-376		
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.		
CAL. BLOCK	SS-9	SS-9	SS-9		
KEY:	• SHOP WELD	✕ FIELD WELD			

NO.	REVISION	ENG	CHKR	DATE
1	ISSUED PER WALKDOWN			
0	1721E38 SHTS. 1-3, REV. 1	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE A-RC-6 REV. 1

AREA

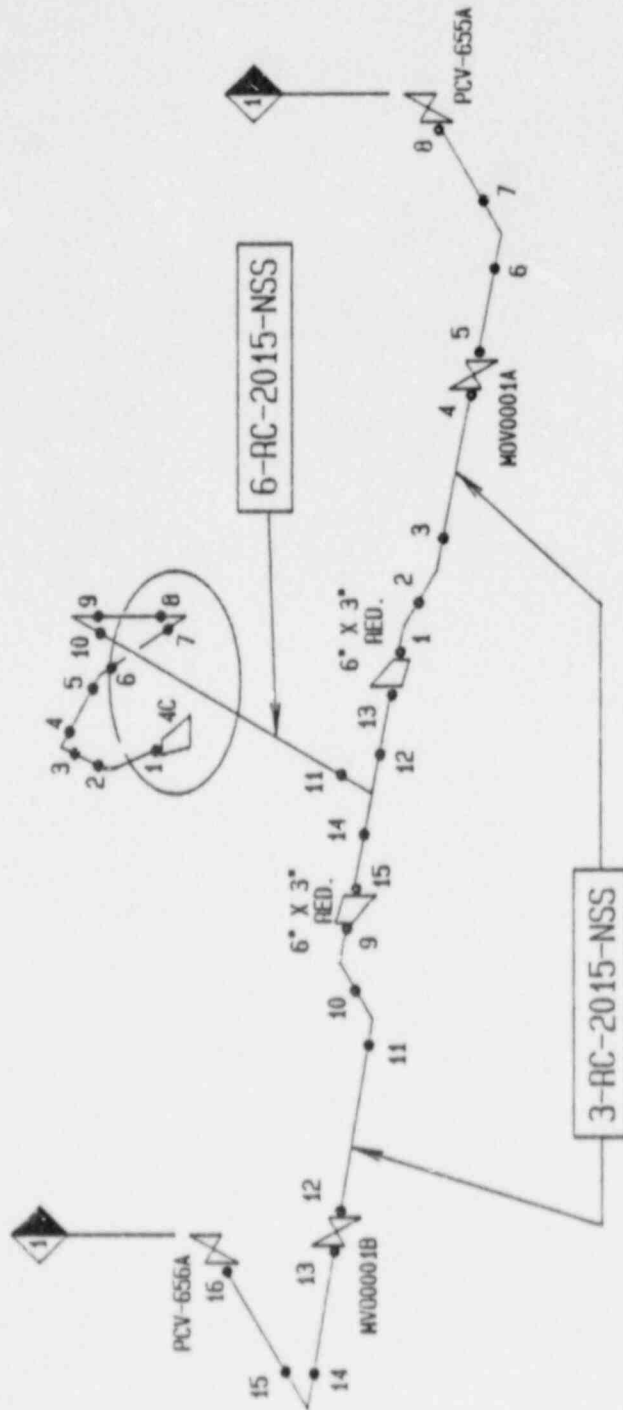
P&ID 9F05003

SYSTEM ISO (S) 1721E36 SHTS. 1-3



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NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



SYSTEM	REACTOR COOLANT
LINE	6-RC-2015-NSS
NOM. THK. /SCH.	0.438/160
MATERIAL	SA-376
INSP. METHOD	VOL./SU.
CAL. BLOCK	SS-9
KEY:	● SHOP WELD    ✱ FIELD WELD

NO.	REVISION	ENG	CHKR	DATE
1	ISSUED PER WALKDOWN	ML	CAM	4/87
0	(M) 1721E38 SHTS. 1-3, REV. 1	ML	CAM	4/87

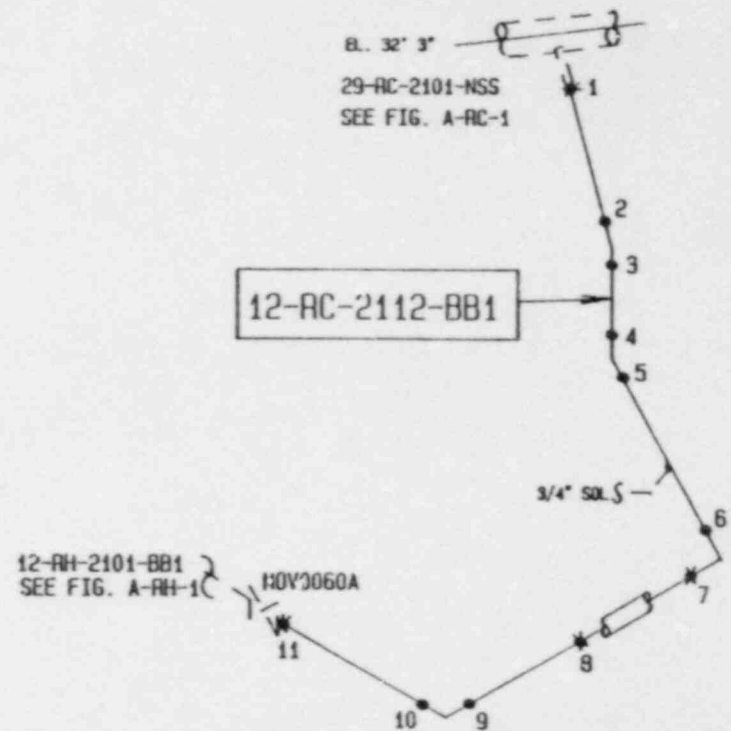
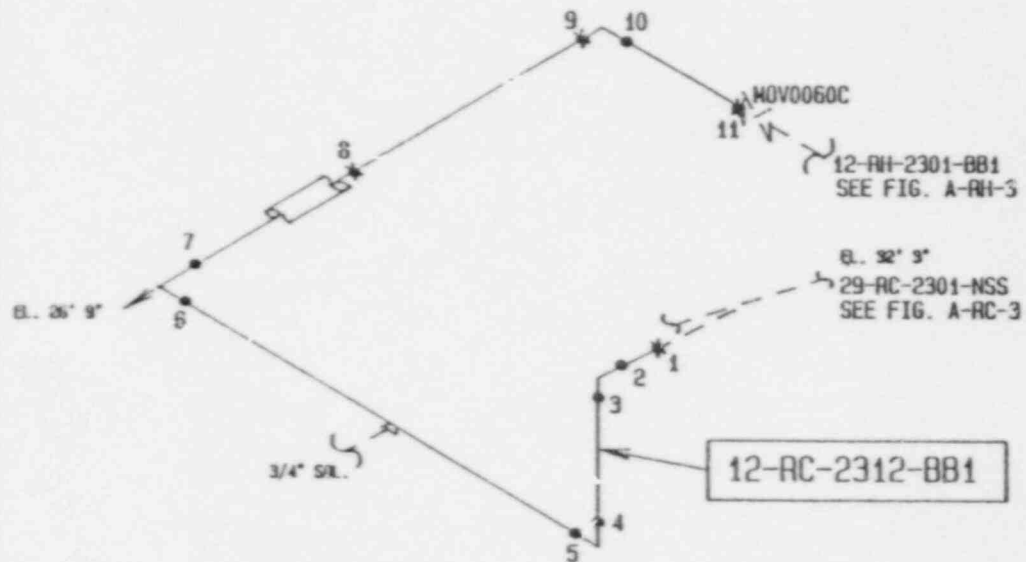
  

SOUTH TEXAS PROJECT ELECTRIC	
GENERATING STATION UNIT 2	
FIGURE	A-RC-7 REV. 1
AREA	
P&ID	9F05003
SYSTEM ISO (S)	(M) 1721E38 SHTS. 1-3



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91-16



NOTES:

- 1. OTHER MATERIALS
- FLANGES SA-182 2" > DIA.
- SA-403 2" < DIA.
- FLANGES SA-182

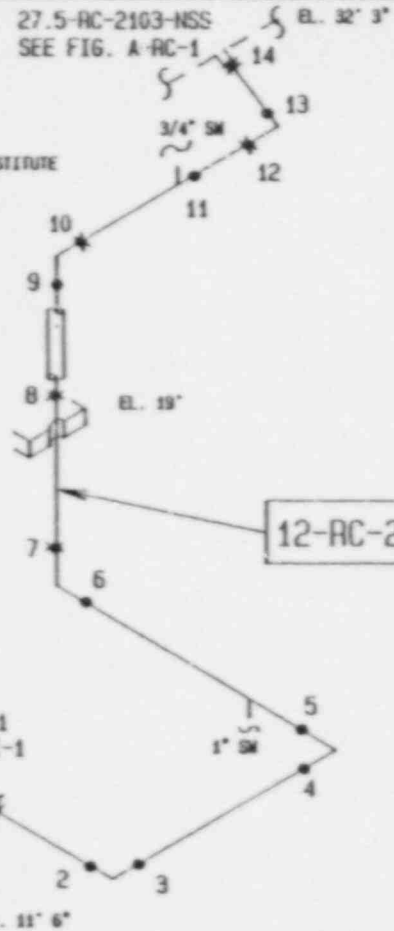
SYSTEM	REACTOR COOLANT	
LINE	12-RC-2112-BB1	12-RC-2312-BB1
NOM. THK. /SCH.	1.125/140	1.125/140
MATERIAL	SA-376	SA-376
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-21	SS-21
KEY:	• SHOP WELD	✕ FIELD WELD

0	PRC457 SHT. 09, REV. 10			
NO.	REVISION	ENG	CHKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	A-RC-8	REV.	0	
AREA				
P&ID	9F05001			
SYSTEM ISO (S)	4C369PRC457 SHT. 09			



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27.5-RC-2103-NSS  
SEE FIG. A-RC-1



12-RC-2221-BB1

12-RC-2125-BB1

12-SI-2125-BB1  
SEE FIG. A-SI-1

12-SI-2218-BB1  
SEE FIG. A-SI-2

- NOTES:
- OTHER MATERIALS
    - FITTINGS SA-182 2" > DIA.
    - SA-403 2" < DIA.
    - FLANGES SA-182

27.5-RC-2203-NSS  
SEE FIG. A-RC-2

F-17

SYSTEM	REACTOR COOLANT	
LINE	12-RC-2125-BB1	12-RC-2221-BB1
NOM. THK. /SCH.	1.125/140	1.125/140
MATERIAL	SA-376	SA-376
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-21	SS-21

KEY: ● SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENG	CKR	DATE
2	FCR EP-03270	CAF	Con	2/8/87
1	FCR EP-01945 & PER WALKDOWN	ML	-	5/87
0	PRC457 SHT. 10, REV. 6	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE A-RC-9 REV. 2

AREA

P&ID 9F05001

SYSTEM ISO (S) 4C369PRC457 SHT. 10



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4-CV-2001-BB1  
SEE FIG. A-CV-1

EL. 9' 9-5/16"

31-RC-2322-NSS  
SEE FIG. A-RC-3

4-RC-2320-BB1

NOZZ. EL. 20' 8-5/16"

NOTES:

1. OTHER MATERIALS

FITTINGS SA-102 2" > DIA.

SA-413 2" < DIA.

FLANGES SA-101

WELD CAP

4-RC-2420-BB1

EL. 32' 3"

27.5-RC-2403-NSS

SEE FIG. A-RC-4

EL. 32' 3"  
29-RC-2201-NSS  
SEE FIG. A-RC-2

12-RC-2212-BB1

EL. 36' 9"

12-FW-2201-BB1  
SEE FIG. A-FW-2

2-RC-2321-BB1

3/4" SW

F-18

0	PRC457 SHT. 04, REV. 6				
NO.	REVISION	ENG	CKR	DATE	

SYSTEM	REACTOR COOLANT			
LINE	12-RC-2212-BB1	4-RC-2320-BB1	4-RC-2420-BB1	2-RC-2321-BB1
NOM. THK. /SCH.	1.125/140	0.531/160	0.531/160	0.344/160
MATERIAL	SA-376	SA-376	SA-376	SA-312
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.	SU.
CAL. BLOCK	SS-21	SS-7	SS-7	N/A
KEY:	● SHOP WELD	✱ FIELD WELD	○ SOCKET WELD	

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2		
FIGURE	A-RC-10	REV. 0
AREA		
P&ID	9F05001	
SYSTEM: ISO (S)	4C369PRC457	SHT. 04





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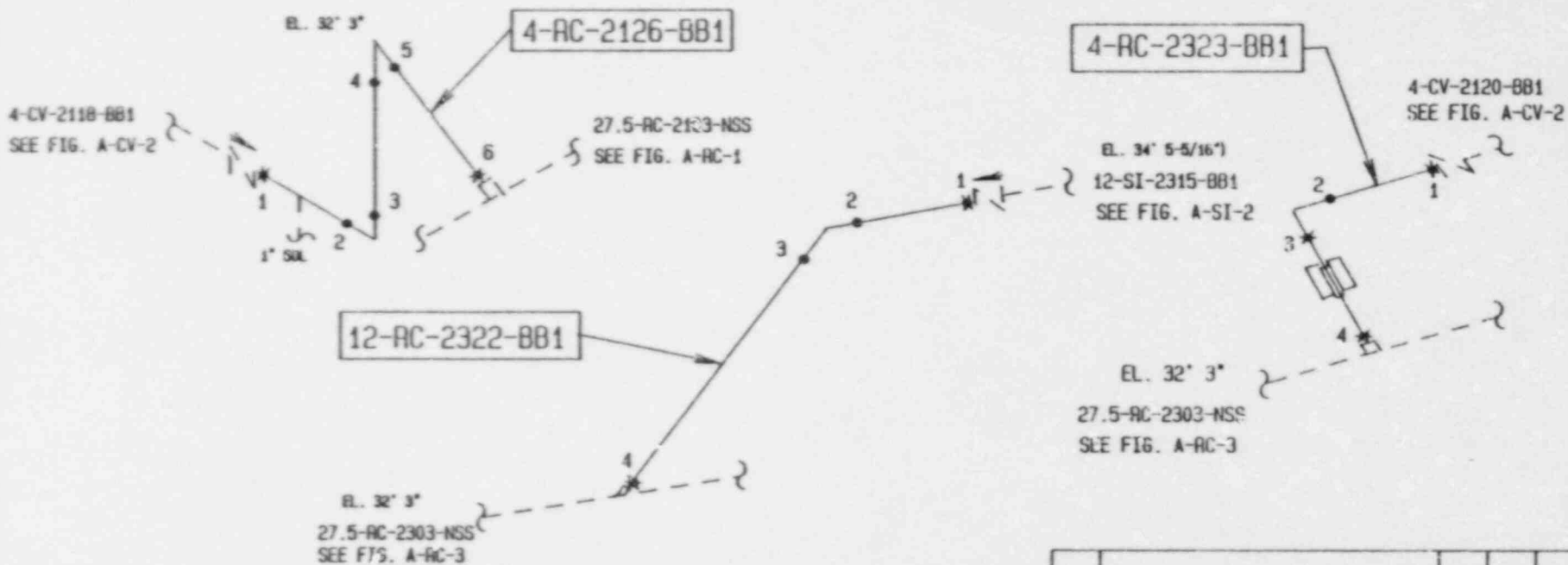
NOTES:

1. OTHER MATERIALS

FITTINGS SA-182 2" > DIA.

SA-403 2" < DIA.

FLANGES SA-182



E-19

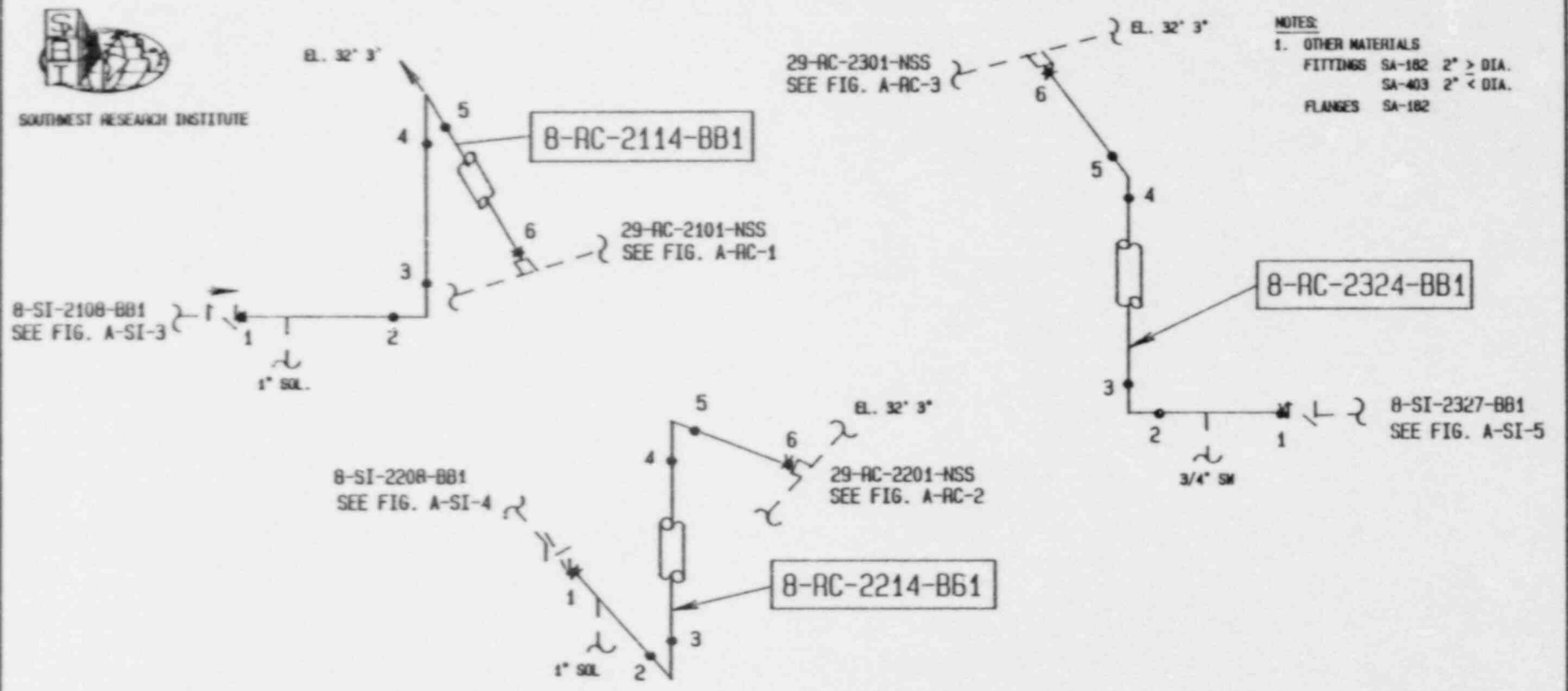
SYSTEM	REACTOR COOLANT		
LINE	12-AC-2322-BB1	4-AC-2126-BB1	4-AC-2323-BB1
NOM. THK. /SCH.	1.125/140	0.531/160	0.531/160
MATERIAL	SA-376	SA-376	SA-376
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-21	SS-7	SS-7

KEY: ● SHOP WELD    ✕ FIELD WELD

2	ISSUED PER FCN 4197			
1	ISSUED TO FCN 3405 & FCN 3272	ML	-	7/87
0	PRC457 SHT. 05 REV.6	ML	CAM	4/87
NO.	REVISION	ENG	CHKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	A-RC-11	REV.	2	
AREA				
P&ID	9F05001			
SYSTEM ISO (S)	1C369PRC457 SHT. 05			



SOUTHWEST RESEARCH INSTITUTE



NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

F-20

SYSTEM	REACTOR COOLANT		
LINE	8-RC-2114-BB1	8-RC-2214-BB1	8-RC-2324-BB1
NOM. THK. /SCH.	0.906/160	0.906/160	0.906/160
MATERIAL	SA-376	SA-376	SA-376
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-11	SS-11	SS-11

KEY: ● SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENG	CKR	DATE
1	ISSUED TO FCR 3272			2/2/81
0	PRC457 SHT.05 REV.6	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2

FIGURE A-RC-12 REV. 1

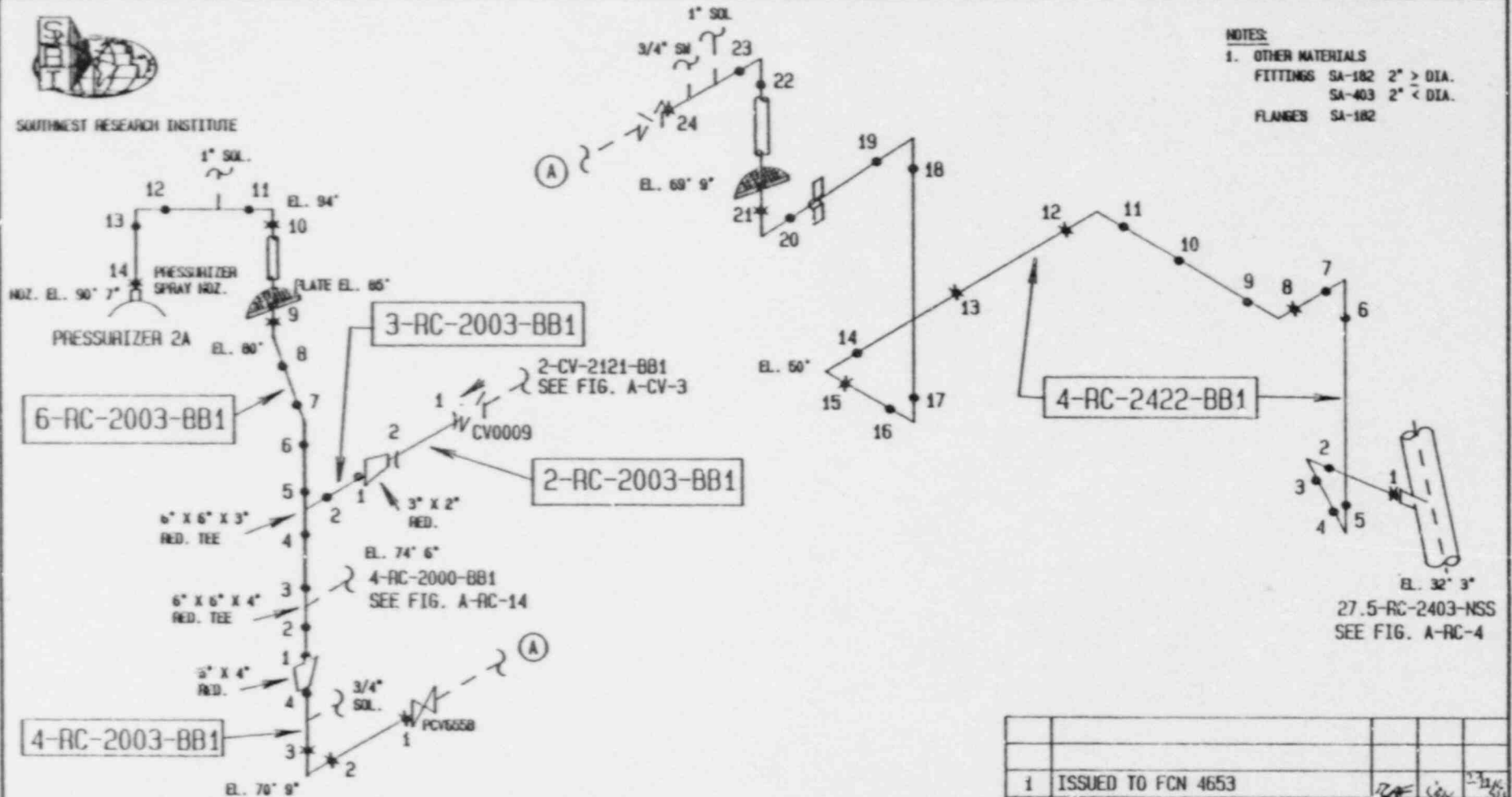
AREA

P&ID 9F05001

SYSTEM ISO (S) 1C369PRC457 SHT. 05



SOUTHWEST RESEARCH INSTITUTE



E-21

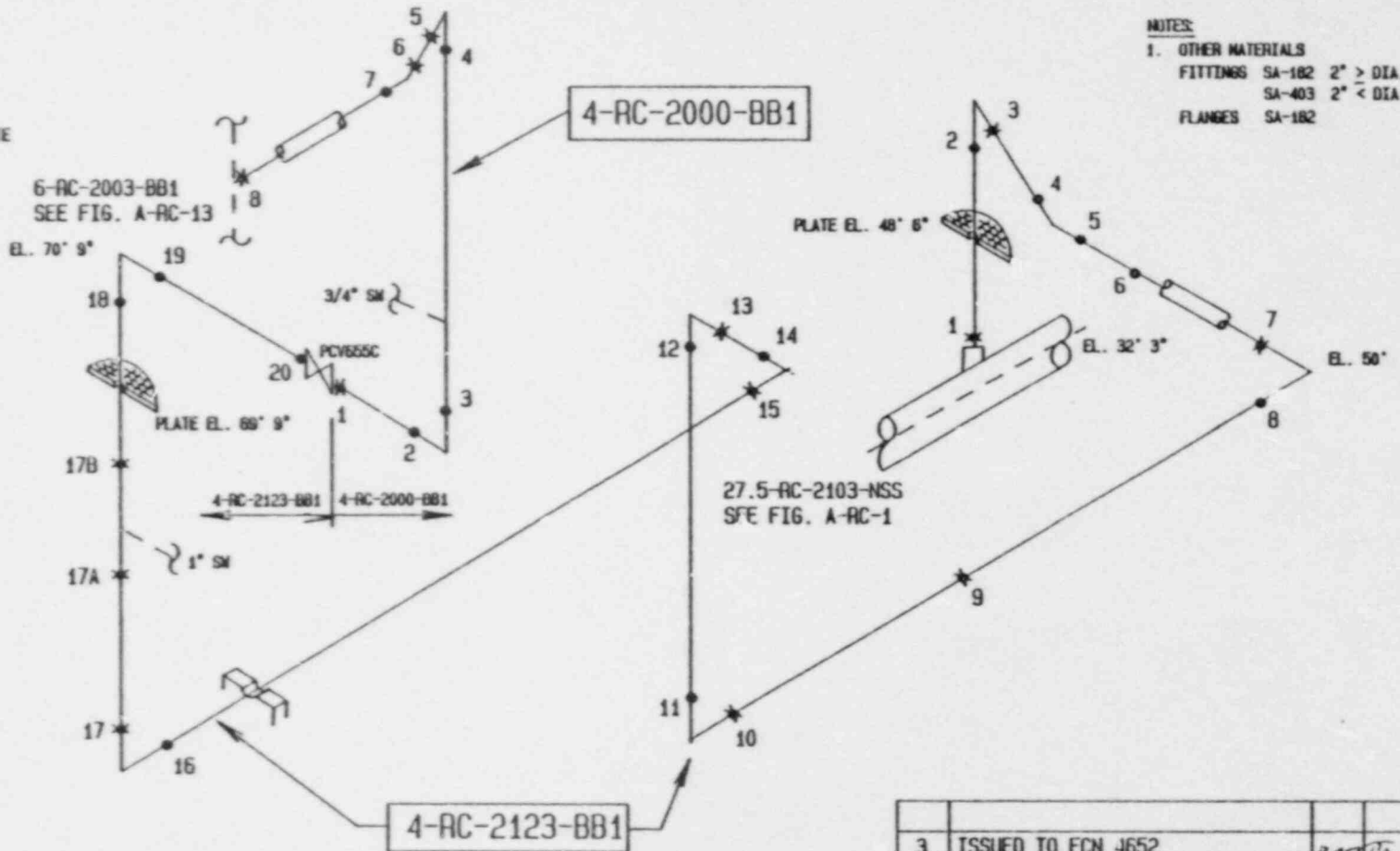
NO.	REVISION	ENG	CKR	DATE
1	ISSUED TO FCN 4653			
0	PHC457 SHT. 06 REV. 7	KC	CAM	4/87

SYSTEM	REACTOR COOLANT					SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2		
LINE	6-RC-2003-BB1	4-RC-2003-BB1	4-RC-2422-BB1	3-RC-2003-BB1	2-RC-2003-BB1	FIGURE	A-RC-13	REV. 1
NOM. THK. /SCH.	0.719/160	0.531/160	0.531/160	0.438/160	0.344/160			
MATERIAL	SA-312	SA-312	SA-312	SA-312	SA-312			
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.	SU.	SU.			
CAL. BLOCK	SS-8	SS-6	SS-7	N/A	N/A			
KEY: ● SHOP WELD	✕ FIELD WELD	] SOCKET WELD			SYSTEM ISO (S) 1C369PRC457 SHT. 06			



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NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

E-22

SYSTEM	REACTOR COOLANT	
LINE	4-RC-2000-BB1	4-RC-2123-BB1
NOM. THK./SCH.	0.531/160	0.531/160
MATERIAL	SA-376	SA-376
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-7	SS-7
KEY:	● SHOP WELD	✱ FIELD WELD

NO.	REVISION	ENG	CKR	DATE
3	ISSUED TO FCN 4652			23 Mar 87
2	ISSUED TO FCN 34016 WALKDOWN	ML		7/87
0	PRC457 SHT. 07 REV. 6	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

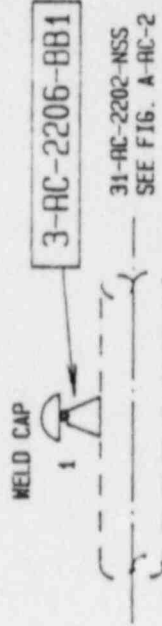
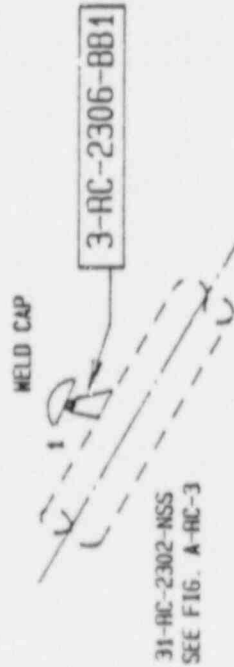
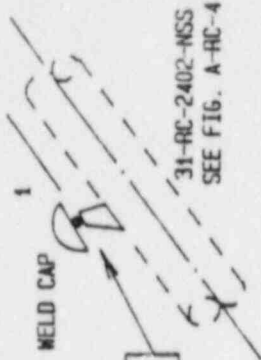
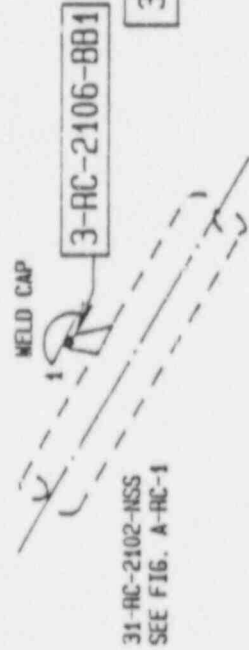
FIGURE	A-RC-14	REV.	3
AREA			
P&ID	9F05003		
SYSTEM ISO (S)	4C369PRC457 SHT. 07		



SOUTHWEST RESEARCH INSTITUTE

NOTES:

1. LINE NUMBERS FOR CAPPED LINES ARE FROM LINE NUMBER DESIGNATIONS USED BEFORE DELETION OF THE LINES.



SYSTEM	REACTOR COOLANT		FIELD WELD	
L. LINE	3-RC-2106-BB1	3-RC-2206-BB1	3-RC-2306-BB1	3-RC-2406-BB1
NOM. THK. / SCH	0.438/160	0.438/160	0.438/160	0.438/160
MATERIAL	SA-376	SA-376	SA-376	SA-376
INSP. METHOD	SU.	SU.	SU.	SU.
CAL. BLOCK	N/A	N/A	N/A	N/A

KEY: ● SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENG	CHK	DATE
0	CAPPED OFF LINES FROM MAIN LOOP			
-	NO BECTEL ISO EXISTS.			
SOUTH TEXAS PROJECT ELECTRIC				
GENERATING STATION UNIT 2				
FIGURE A-RC-15 REV. 0				
AREA				
P&ID 9F05002				
SYSTEM ISO (S) N/A				

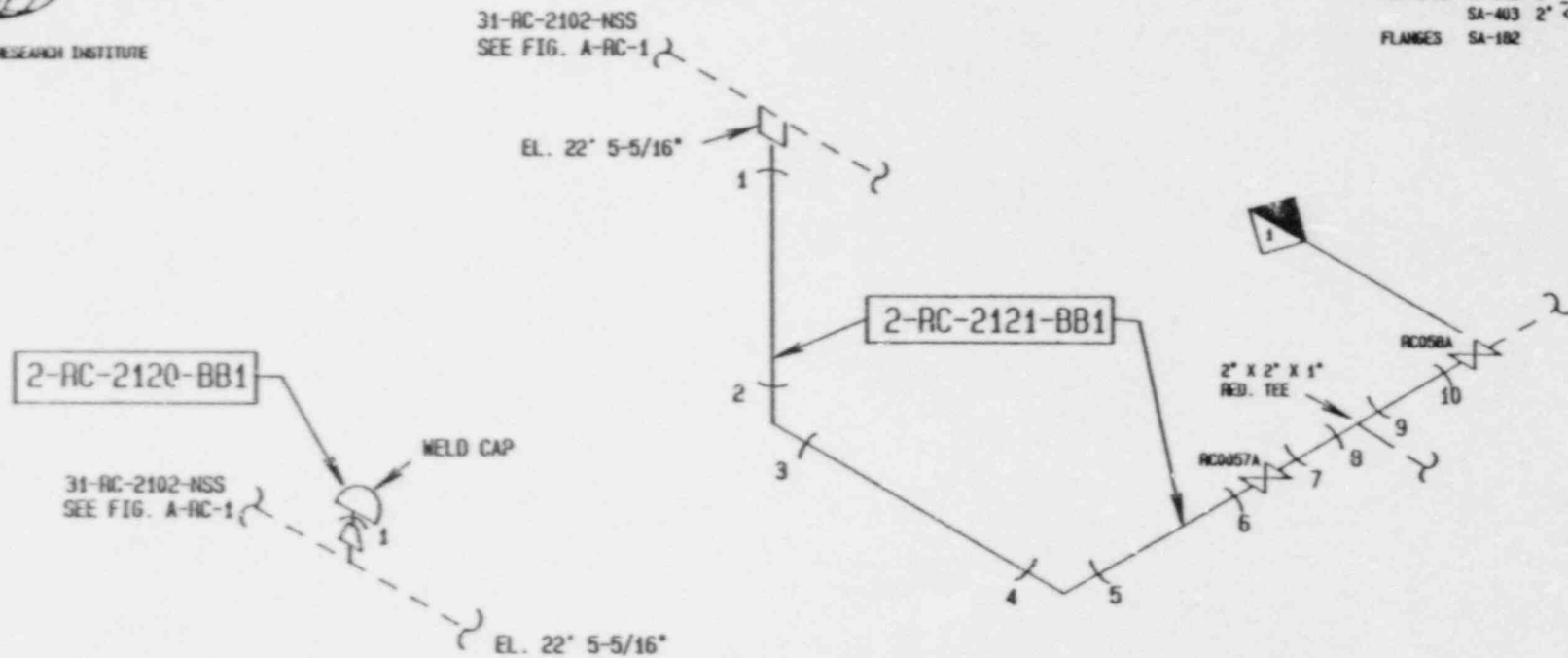


SOUTHWEST RESEARCH INSTITUTE

NOTES:

1. OTHER MATERIALS

- FITTINGS SA-182 2" > DIA.
- SA-403 2" < DIA.
- FLANGES SA-182



F-24

SYSTEM	REACTOR COOLANT	
LINE	2-RC-2120-BB1	2-RC-2121-BB1
NOM. THK. /SCH	0.344/160	0.344/160
MATERIAL	SA-376	SA-376
INSP. METHOD	SJ.	SJ.
CAL. BLOCK	N/A	N/A

KEY: \* SHOP WELD   ✕ FIELD WELD   | SOCKET WELD

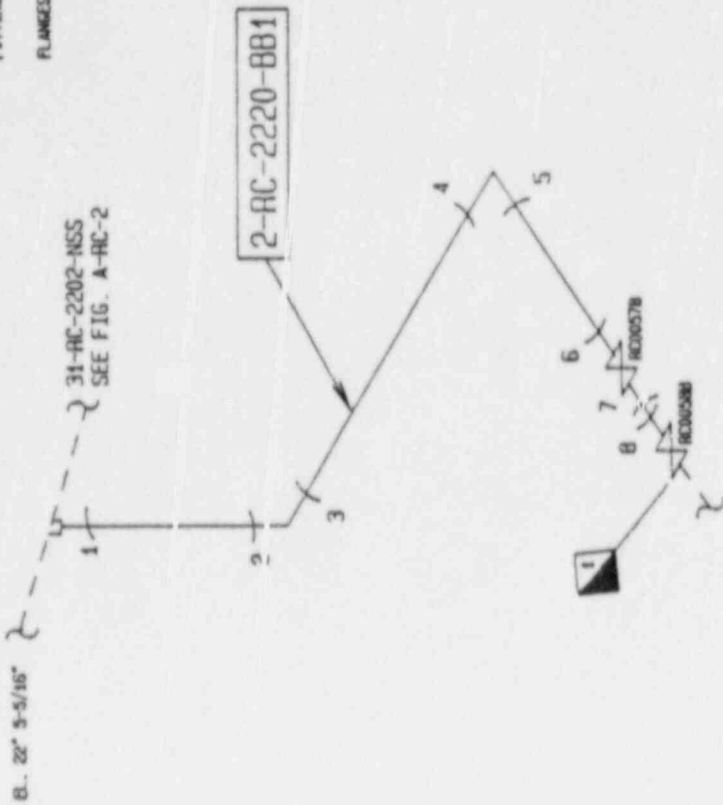
1	FCR EP-01962				
0	PRC457 SHT. A06, REV. 7	ML	CAM	4/87	
NO.	REVISION	ENG	CKR	DATE	
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2					
FIGURE	A-RC-16	REV.	1		
AREA					
P&ID	9F05001				
SYSTEM ISO (S)	4C369PRC457 SHT. A06				



SOUTHWEST RESEARCH INSTITUTE

**NOTES:**

1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



2-RC-2219-BB1

2-RC-2220-BB1

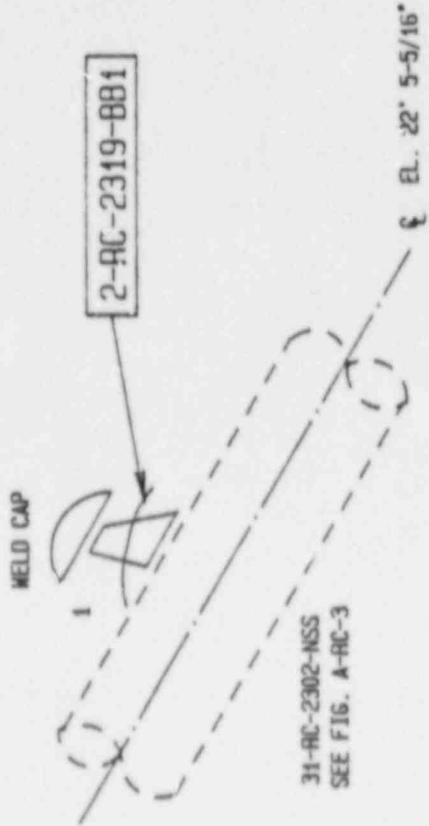
SYSTEM	REACTOR COOLANT
LINE	2-RC-2219-BB1
NOM. THK. / SICH	0.344/160
MATERIAL	SA-376
INSP. METHOD	SU.
CAL. BLOCK	N/A
KEY: ● SHOP WELD    ✕ FIELD WELD    ( ) SOCKET WELD	

NO.	REVISION	BY	CHK	DATE
0	PRC457 SH. A13, REV. 4	12	12	12/17
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE A-RC-17 REV. 0				
AREA				
P&ID 9F05001				
SYSTEM ISO (S) 4C369RC457 SH. A13				



SOUTHERN RESEARCH INSTITUTE

NOTES:  
 1. LINE NUMBER FOR CAPPED  
 LINE IS FROM LINE NUMBER  
 DESIGNATION USED BEFORE  
 DELETION OF THE LINE.



SYSTEM	REACTOR COOLANT
LINE	2-RC-2319-881
NOM. THK. / SCH	0.344 / 160
MATERIAL	SA-376
INSP. METHOD	SI.
CAL. BLOCK	N/A
KEY: ● SHOP WELD	✕ FIELD WELD (SOCKET WELD)

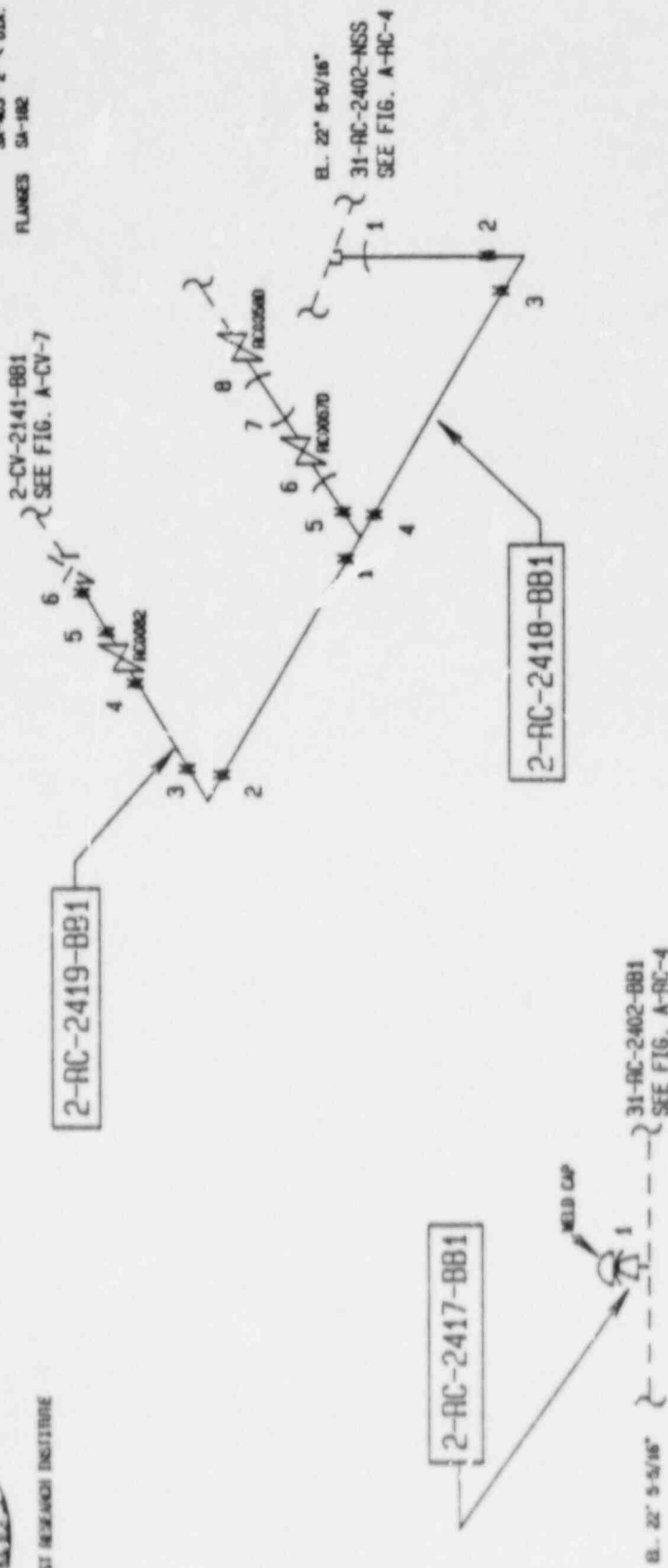
NO.	REVISION	ENG	CHK	DATE
0	PRC457 SHT. A15, REV. 3	J. J. [Signature]		5/2/68
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	A-RC-18	REV.	0	
AREA				
P&ID	9F05001			
SYSTEM ISO (S)	4C369PRC457 SHT. A15			





SOUTHWEST RESEARCH INSTITUTE

NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-102 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-102



EL. 22' 5-5/16" }  
 31-RC-2402-NSS  
 SEE FIG. A-RC-4

NO.	REVISION	ENG	CHKR	DATE
1	PER MALDOWIN			
0	PRC457 SHIT. A03, REV. 5	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	A-RC-19 REV. 1
ARC#	
PC#ID	9F05001
SYSTEM ISO (S)	4C363PRC457 SHIT. A03

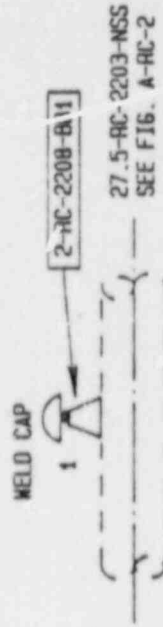
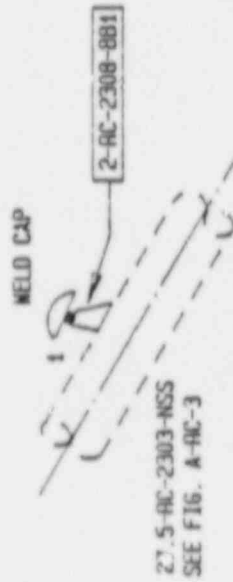
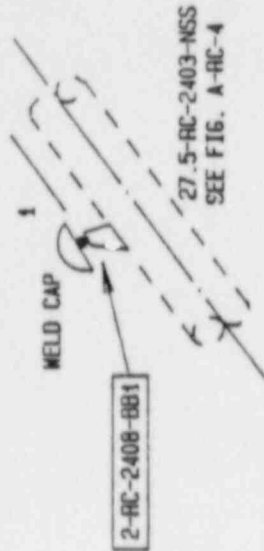
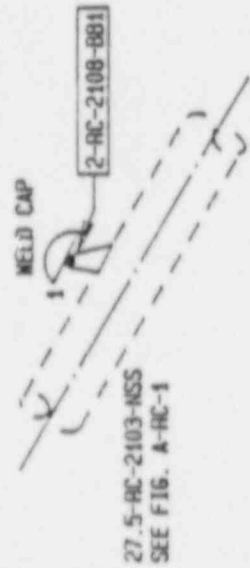
SYSTEM	REACTOR COOLANT	2-RC-2419-BB1	2-RC-2418-BB1	2-RC-2417-BB1	SOCKET WELD
LINE	2-RC-2417-BB1	2-RC-2419-BB1	2-RC-2418-BB1	2-RC-2417-BB1	
NOM. THK. / SCH.	0.344/160	0.344/160	0.344/160	0.344/160	
MATERIAL	SA-376	SA-376	SA-376	SA-376	
INSP. METHOD	SU.	SU.	SU.	SU.	
CAL. BLOCK	N/A	N/A	N/A	N/A	
KEY: * SHOP WELD	* FIELD WELD				SOCKET WELD



SOUTHERN RESEARCH INSTITUTE

NOTES:

1. LINE NUMBERS FOR CAPPED LINES ARE FROM LINE NUMBER DESIGNATIONS USED BEFORE DELETION OF THE LINES.



SYSTEM	REACTOR COOLANT	2-RC-2208-BB1	2-RC-2308-BB1	2-RC-2408-BB1
L. LINE	2-RC-2108-BB1	0.344/160	0.344/160	0.344/160
NOM. THK. /SCH.	SA-376	SA-376	SA-376	SA-376
MATERIAL	SU.	SU.	SU.	SU.
INSP. METHOD	N/A	N/A	N/A	N/A
CALL. BLOCK				
KEY: ● SHOP WELD	✕ FIELD WELD			

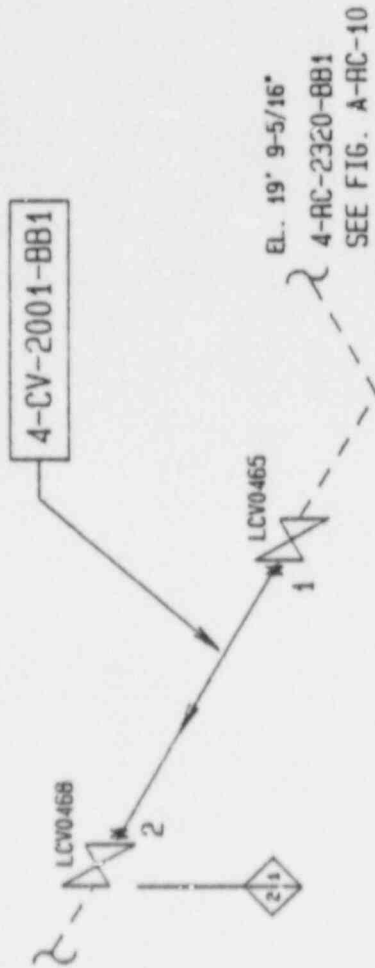
NO.	REVISION	ENG	CHK	DATE
0	CAPPED OFF LINES FROM MAIN LOOP			
-	NO BECTHEL ISO EXISTS.			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	A-RC-20	REV.	0	
AREA				
P&ID	9F05001			
SYSTEM ISO (S)	N/A			



SOUTHWEST RESEARCH INSTITUTE

NOTES:

- OTHER MATERIALS
- FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.
- FLANGES SA-182



REV  
1-2-9

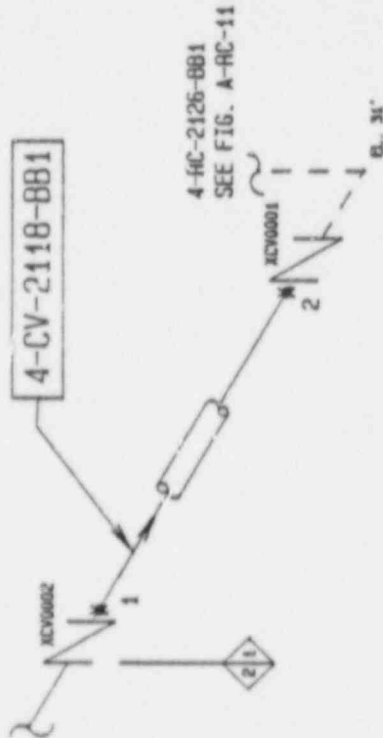
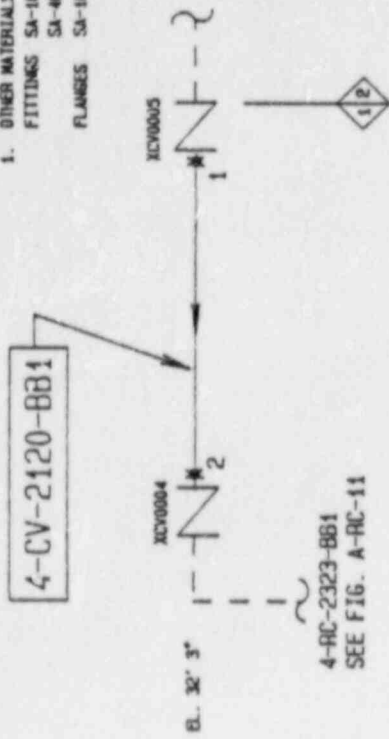
NO.	REVISION	CHK	DAT
0	PCV417 SHIT. 04. REV. 6	ENG	10/1/82
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	A-CV-1	REV.	0
AREA			
P&ID	9F05005		
SYSTEM ISO (S)	4C369PCV417 SHIT. 04		

SYSTEM	CHEMICAL & VOLUME CONTROL
LINE	4-CV-2001-BB1
NOM. THK. /SCH.	0.531/160
MATERIAL	SA-312
INSP. METHOD	VOL./SU.
CAL. BLOCK	SS-6
KEY:	● SHOP WELD    ✕ FIELD WELD



SOUTHWEST RESEARCH INSTITUTE

- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



SYSTEM	CHEMICAL & VOLUME CONTROL
LINE	4-CV-2118-BB1
NOM. THK. /SCH.	0.531/160
MATERIAL	SA-376
INSP. METHOD	VOL./SU.
CAL. BLOCK	SS-7
KEY:	• SHOP WELD    ✕ FIELD WELD

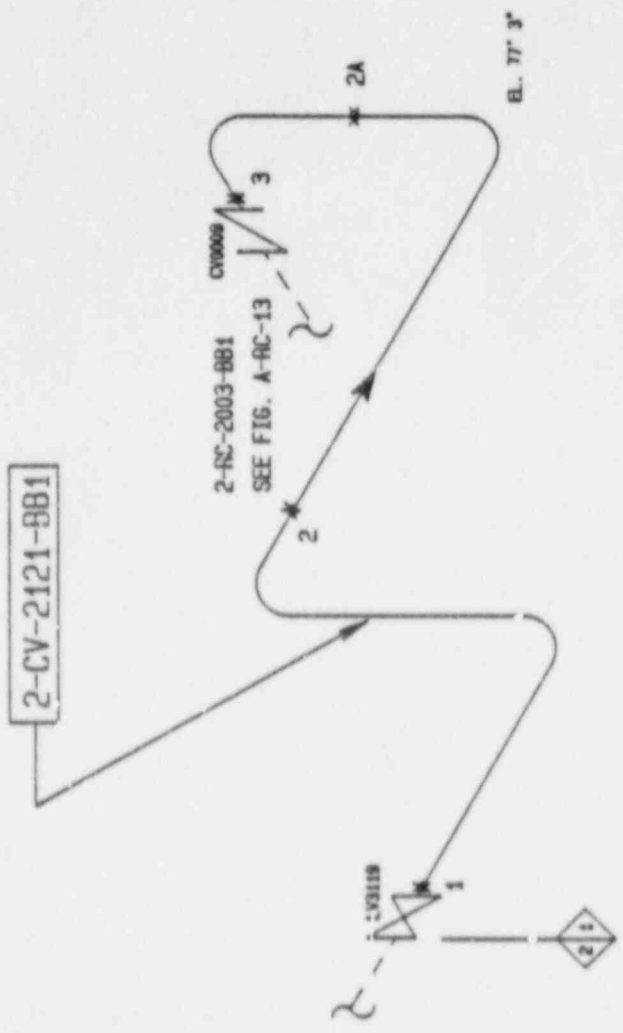
NO.	REVISION	ENG	CHKR	DATE
0	PCV417 SHT. 02, REV. 6			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE		A-CV-2 REV. 0		
AREA				
P&ID		9F05005		
SYSTEM ISO (S)		4C369PCV417 SHT. 02		



SOUTHWEST RESEARCH INSTITUTE

**NOTES:**

1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



SYSTEM	CHEMICAL & VOLUME CONTROL
LINE	2-CV-2121-8B1
NOM. THK. /SCH	0.344/160
MATERIAL	SA-312
INSP. METHOD	SI.
CAL. BLOCK	N/A
KEY:	● SHOP WELD    ✕ FIELD WELD

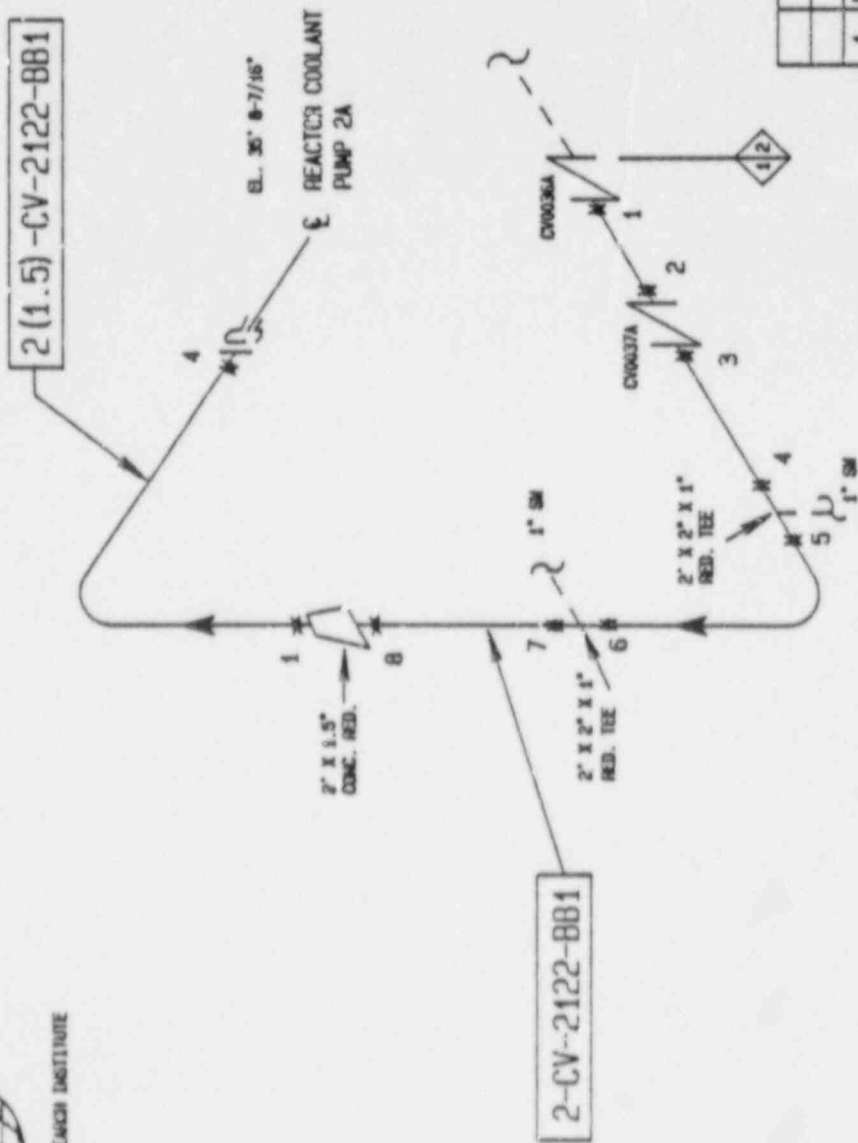
NO.	REVISION	ENG	CHK	DATE
1	PCV417 SHT. A02, REV. 8	ML	CA	2/2/87
0	PCV417 SHT. A02, REV. 7	ML	CA	4/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE A-CV-3 REV. 1				
AREA				
P&ID 9F05005				
SYSTEM ISO (S) 4C369PCV417 SHT. A02				



SOUTHWEST RESEARCH INSTITUTE

NOTES:

1. OTHER MATERIALS
- FITTINGS SA-182 2" > DIA.
- SA-403 2" < DIA.
- FLANGES SA-182



SYSTEM	CHEMICAL & VOLUME CONTROL
LINE	2-CV-2122-BB1
NOM. THK./SCH.	0.281/50
MATERIAL	SA-312
INSP. METHOD	SU.
CAL. BLOCK	N/A
KEY:	● SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENG	CHKR	DATE
1	FOR EP-02431			
0	PCV417 SHI. A11, REV. 7	M.	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC	
GENERATING STATION UNIT 2	
FIGURE	A-CV-4 REV. 1
AREA	
PGID	9F05005
SYSTEM ISO (S)	4C369PCV417 SHI. A11



PRIDMORE RESEARCH INSTITUTE

EL. 35' 0-7/16"

REACTOR  
COOLANT  
PUMP 2C

2 (1.5) - CV-2126-BB1

EL. 35' 0-7/16"

REACTOR  
COOLANT  
PUMP 2B

2 (1.5) - CV-2124-BB1

NOTES

- OTHER MATERIALS  
FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-182

2-CV-2124-BB1

CV0036B

1

2" X 1.5"  
CONC. RED

2" X 2" X 1"  
RED. TEE

2" X 2" X 1"  
RED. TEE

CV0037C

CV0037C

2" X 1.5"  
CONC. RED

2" X 2" X 1"  
RED. TEE

2" X 2" X 1"  
RED. TEE

CV0037B

EL. 31' 6"

EL. 28' 6"

2-CV-2126-BB1



E-33

NO.	REVISION	ENG	CHKR	DATE
1	FCR EP-02431			
0	PCV417 SHT. A03 REV. 12	ML	CAM	4/87

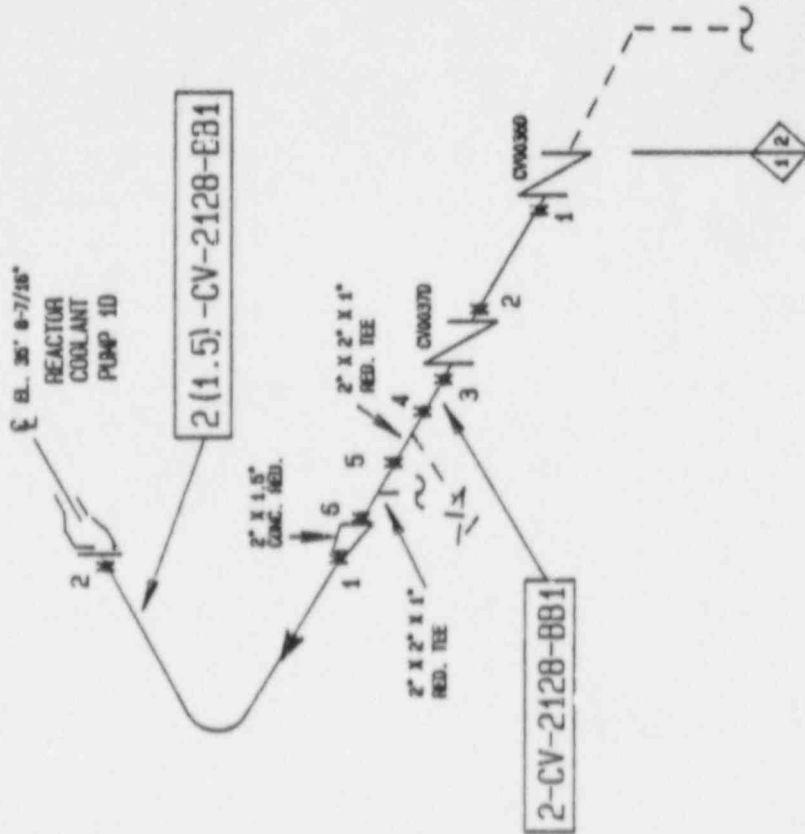
SYSTEM	CHEMICAL & VOLUME CONTROL				SOUTH TEXAS PROJECT ELECTRIC		
LINE	2-CV-2124-BB1	2-CV-2126-BB1	2(1.5)-CV-2124-BB1	2(1.5)-CV-2126-BB1	GENERATING STATION UNIT 2		
NOM. THK. /SCH.	0.344/160	0.344/160	0.281/160	0.281/160	FIGURE	A-CV-5	REV. 1
MATERIAL	SA-312	SA-312	SA-312	SA-312	AREA		
INSP. METHOD	SU.	SU.	SU.	SU.	P&ID	9F05005	
CAL. BLOCK	N/A	N/A	N/A	N/A	SYSTEM ISO (S)	4C369PCV417 SHT. A03	

KEY: \* SHOP WELD    ✕ FIELD WELD



SOUTHWEST RESEARCH INSTITUTE

NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-102 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-102



SYSTEM	CHEMICAL & VOLUME CONTROL	
L. LINE	2-CV-2128-881	2(1.5)-CV-2128-881
NOM. THK. /SCH.	0.344/160	0.281/160
MATERIAL	SA-312	SA-312
INSP. METHOD	SU.	SU.
CAL. BLOCK	N/A	N/A
KEY:	● SHOP WELD	■ FIELD WELD

NO.	REVISION	ENGR	CHKR	DATE
1	FOR EP-02431			
0	PCV417 SHT. A06, REV. 9	ML	CAM	4/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE A-CV-6 REV. 1				
AREA				
P&ID 9F05605				
SYSTEM ISO (S) 4C369PCV417 SHT. A06				

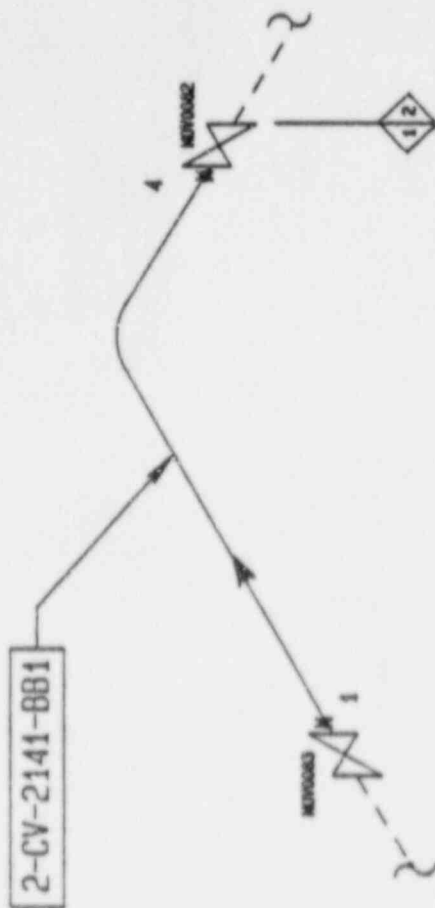




SOUTHWEST RESEARCH INSTITUTE

NOTES:

- 1. OTHER MATERIALS
- FITTINGS SA-182 2" > DIA.
- SA-403 2" < DIA.
- FLANGES SA-182



BL. 18" 9"  
 2-RC-2419-BB1  
 SEE FIG. A-RC-19

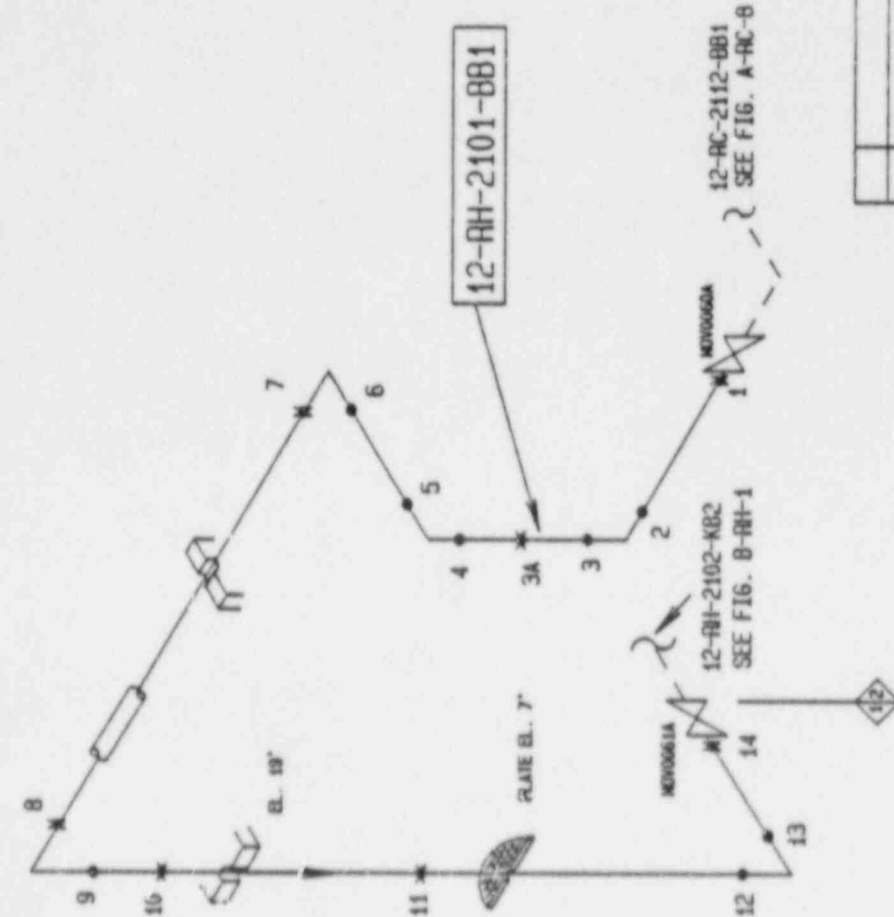
SYSTEM	CHEMICAL & VOLUME CONTROL
LINE	2-CV-2141-BB1
NOM. THK. /SCH	0.344/160
MATERIAL	SA-312
INSP. METHOD	SU.
CAL. BLOCK	N/A
KEY:	● STOP WELD    ✕ FIELD WELD

NO.	REVISION	ENGR	CHKR	DATE
1	PCY417 SHIT. A07, REV. 7	ML	CAH	4/87
0	PCY417 SHIT. A07, REV. 6			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE A-CV-7 REV. 1				
AREA				
PGID 9F05005				
SYSTEM ISO (S) 4C36PCY417 SHIT. A07				



SEABORN RESEARCH INSTITUTE

EL. 26' 8"



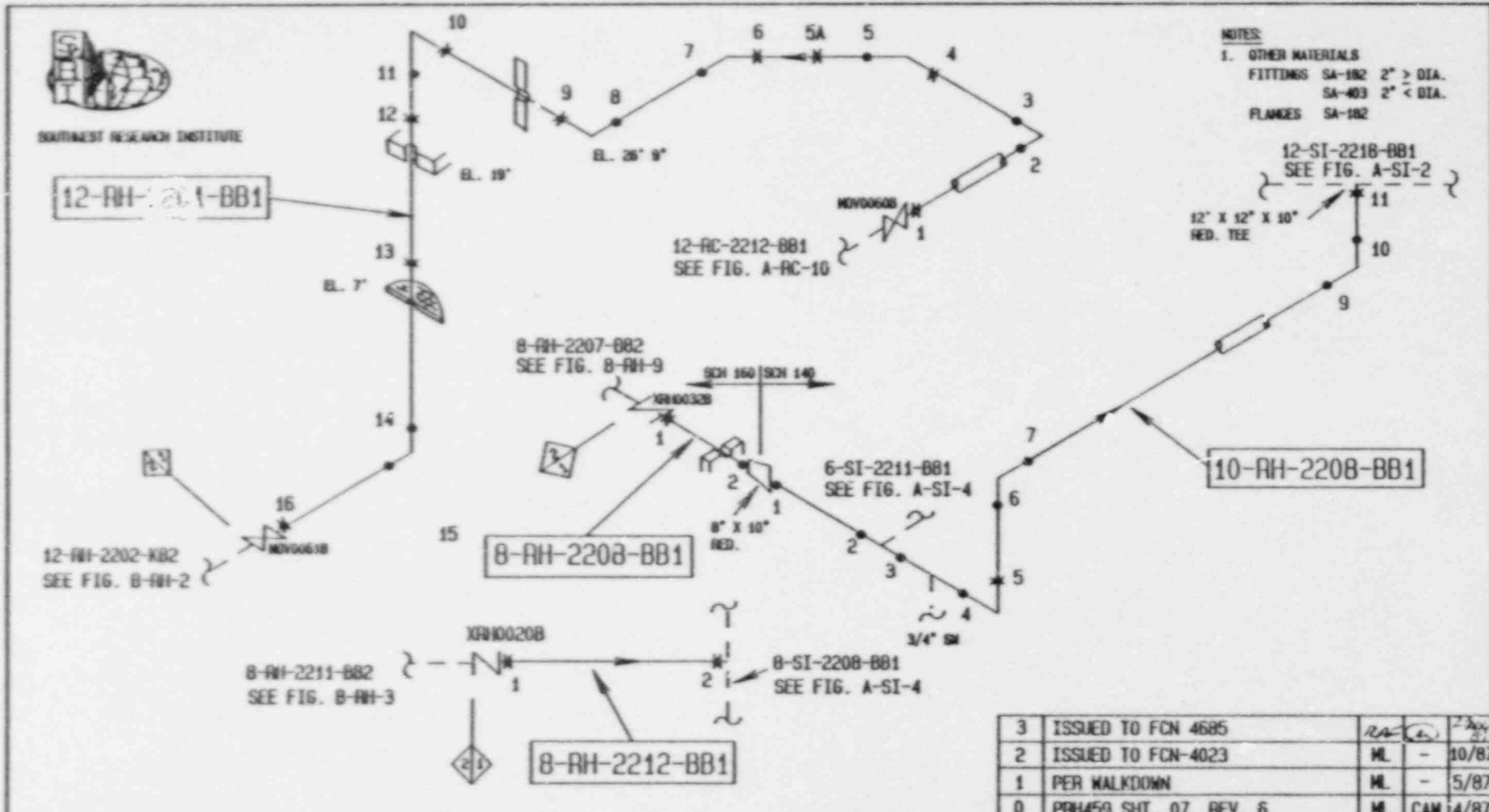
- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-102 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-102

SYSTEM	RESIDUAL HEAT REMOVAL
LINE	12-RH-2101-BB1
NOM. THK. / SCH	1.125 / 140
MATERIAL	SA-376
INSP. METHOD	WV. / SU.
CAL. BLOCK	SS-21
KEY:	• SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENG	CHKR	DATE
1	PER WALKDOWN	ML	CAM	4/87
0	PRI-459 SHT. 04, REV. 8	ENG		
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	A-RH-1 REV. 1			
AREA				
P&ID	9F20000			
SYSTEM ISO (S)	4C369PRH459 SHT. 04			



SOUTHERN RESEARCH INSTITUTE



- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
       SA-403 2" < DIA.  
 FLANGES SA-182

12-SI-2218-BB1  
 SEE FIG. A-SI-2  
 12" X 12" X 10"  
 RED. TEE

10-RH-2208-BB1

8-RH-2208-BB1

8-RH-2212-BB1

3	ISSUED TO FCN 4685	RA	10/87
2	ISSUED TO FCN-4023	ML	5/87
1	PER WALKDOWN	ML	4/87
0	PRH459 SHT. 07, REV. 6	ML	CAM 4/87
NO.	REVISION	ENG	CKR DATE

SYSTEM	RESIDUAL HEAT REMOVAL			
LINE	12-RH-2201-BB1	10-RH-2208-BB1	8-RH-2208-BB1	8-RH-2212-BB1
NOM. THK. /SCH.	1.125/140	1.000/140	0.906/160	0.906/160
MATERIAL	SA-376	SA-376	SA-312	SA-376
INSP. METHOD	VOL./SUJ.	VOL./SUJ.	VOL./SUJ.	VOL./SUJ.
CAL. BLOCK	SS-21	SS-50	SS-10	SS-11

SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2  
 FIGURE A-RH-2 REV. 3  
 AREA  
 P&ID 9F20000  
 SYSTEM ISO (S) 4C369PRH459 SHT. 07

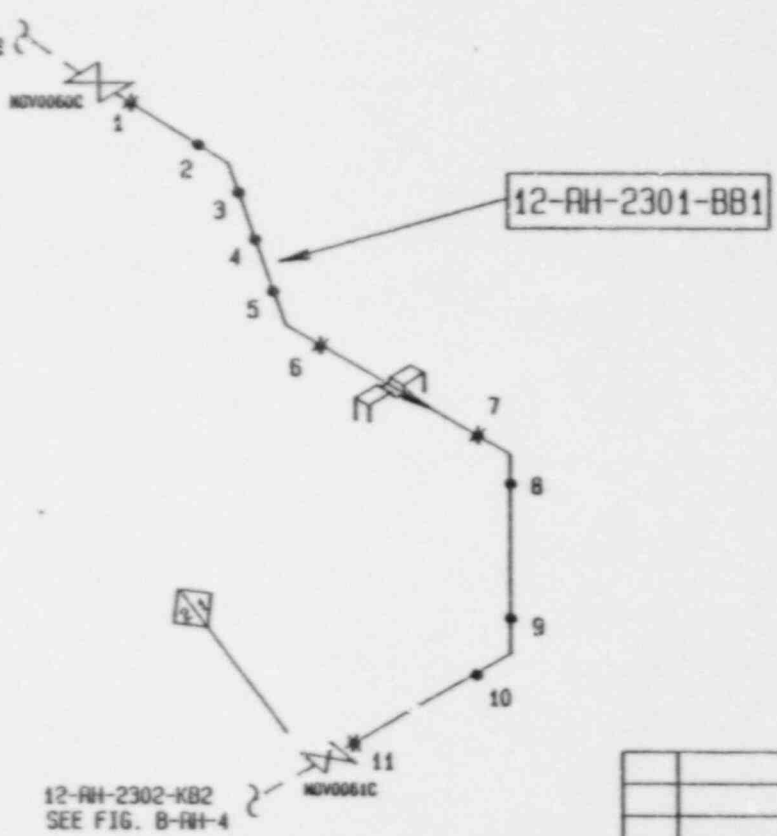
KEY: ● SHOP WELD    ✕ FIELD WELD

E-37



SOUTHWEST RESEARCH INSTITUTE

EL. 28' 9"  
12-RC-2312-BB1  
SEE FIG. A-RC-B



NOTES:  
1. OTHER MATERIALS  
FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-182

12-RH-2302-KB2  
SEE FIG. B-RH-4

SYSTEM	RESIDUAL HEAT REMOVAL
LINE	12-RH-2301-BB1
NOM. THK. /SCH.	1.125/140
MATERIAL	SA-376
INSP. METHOD	VOL. /SU.
CAL. BLOCK	SS-21
KEY:	• SHOP WELD    ✕ FIELD WELD

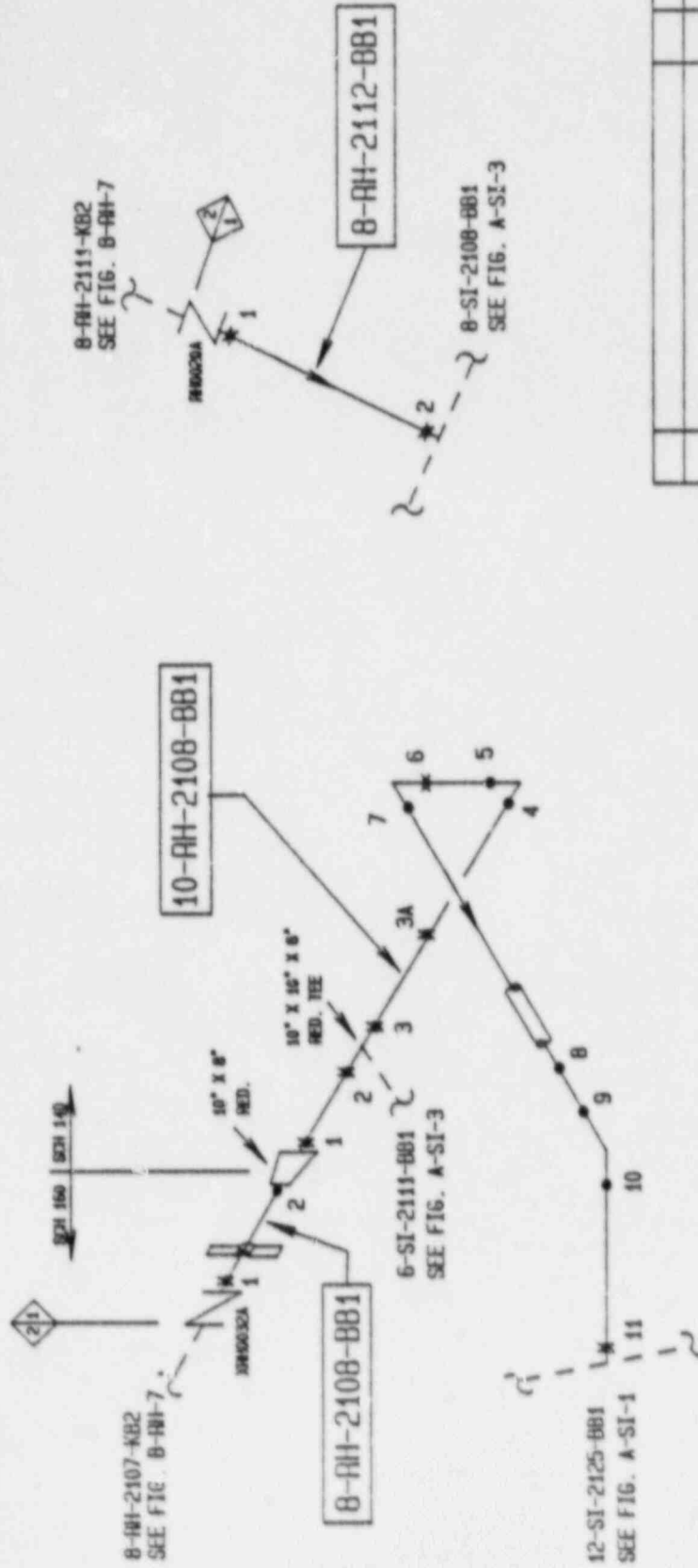
NO.	REVISION	ENG	CKR	DATE
0	PRH459 SHT. 01, REV. 7			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	A-RH-3	REV.	0	
AREA				
P&ID	9F20000			
SYSTEM ISO (S)	4C369PRH459 SHT. 01			

E-38



SOUTHWEST RESEARCH INSTITUTE

NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-102 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-102



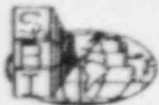
STEM RESIDUAL HEAT REMOVAL

LINE	8-RH-2108-BB1	8-RH-2108-BB1	8-RH-2112-BB1
NOM. THK. / SCH	1.000/140	0.906/100	0.906/160
MATERIAL	SA-776	SA-312	SA-376
INSP. METHOD	WV./SU.	WV./SU.	WV./SU.
CAL. BLOCK	SS-58	SS-10	SS-11
KEY:	• SHOP WELD	✕ FIELD WELD	

NO.	REVISION	ENG	CHK	DATE
1	PER WALKDINN			
0	PRH459 SHIT. 03, REV. 8	ML	CAM	4/87

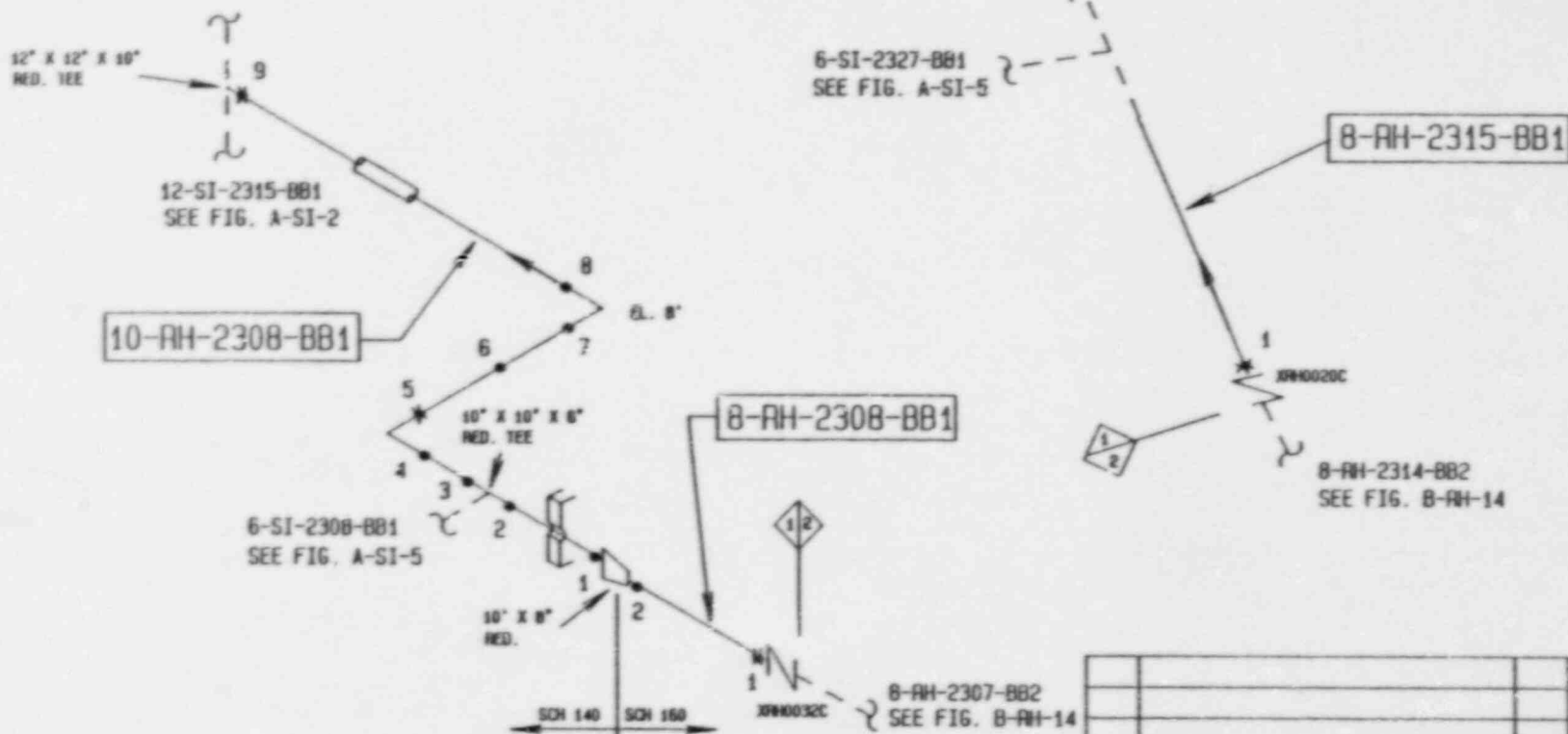
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	A-RH-4 REV. 1
PGID	9F20000
SYSTEM ISO (S)	4C36PRH459 SHIT. 03



SOUTHWEST RESEARCH INSTITUTE

NOTES:

- 1. OTHER MATERIALS
- FITTINGS SA-182 2" > DIA.
- SA-403 2" < DIA.
- FLANGES SA-182



F-40

SYSTEM	RESIDUAL HEAT REMOVAL		
LINE	10-RH-2308-BB1	8-RH-2308-BB1	8-RH-2315-BB1
NOM. THK. /SCH.	1.000/140	0.906/160	0.906/160
MATERIAL	SA-376	SA-376	SA-376
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-58	SS-11	SS-11

KEY: ● SHOP WELD    ✕ FIELD WELD

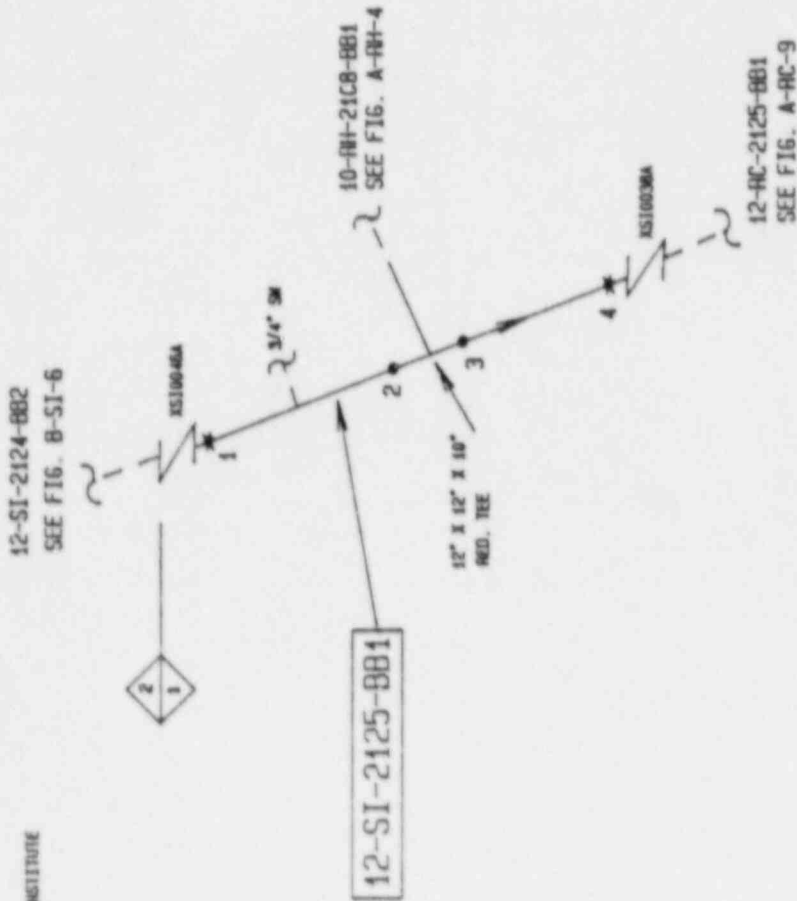
NO.	0	PRH459 SHT. 06, REV. 7	ENG	CHKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2					
FIGURE	A-RH-5		REV. 0		
AREA					
P&ID	9F20000				
SYSTEM ISO (S)	4C369PRH459 SHT. 06				



SOUTHWEST RESEARCH INSTITUTE

NOTES:

- OTHER MATERIALS  
 FITTINGS SA-182 P  
 SA-403 A.  
 FLANGES SA-182



SYSTEM	SAFETY INJECTION
LINE	12-SI-2125-BB1
NOM. THK. /SCH	1.125/140
MATERIAL	SA-376
INSP. METHOD	WOL./SU.
CAL. BLOCK	SS-21
KEY:	● SHOP WELD    ✕ FIELD WELD

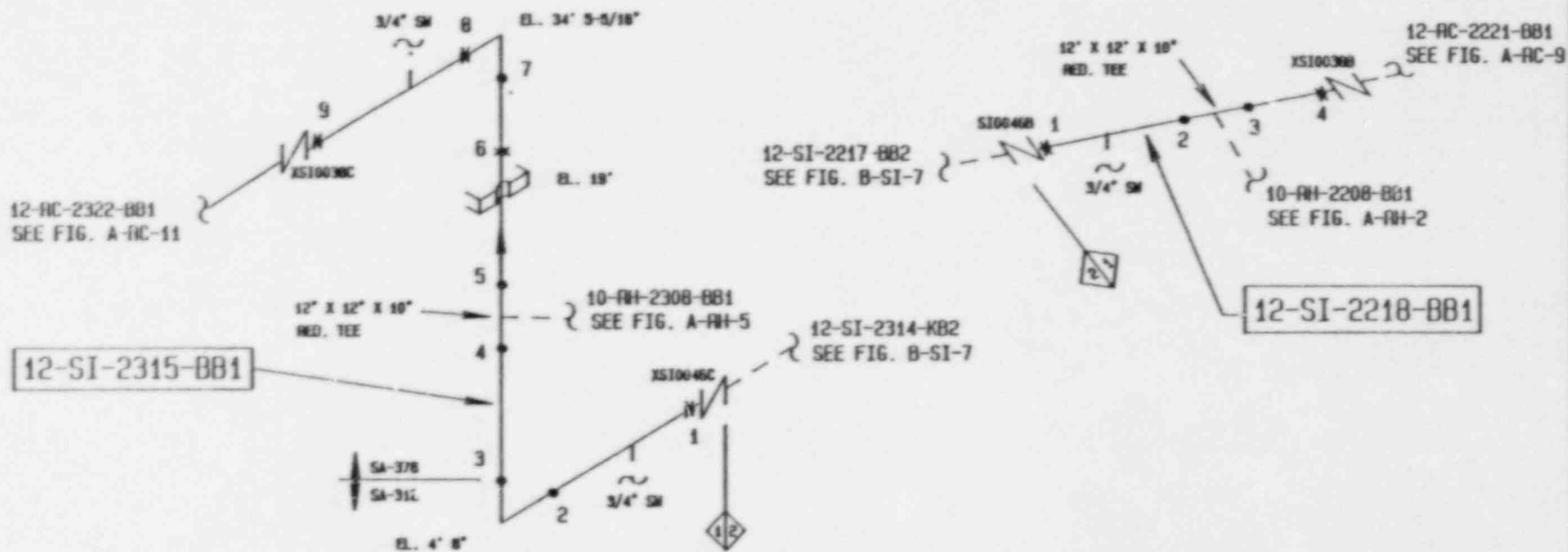
NO.	REVISION	ENG	CHKR	DATE
0	PSI472 SHT. 04, REV. 4	RD	Cam	8/81
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE		A-SI-1	REV. 0	
AREA				
P&ID		9F05016		
SYSTEM ISO (S)		4C36PSI472 SHT. 04		



SOUTHWEST RESEARCH INSTITUTE

NOTES:

- OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



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SYSTEM	SAFETY INJECTION	
LINE	12-SI-2218-BB1	12-SI-2315-BB1
NOM. THK. /SCH.	1.125/140	.75/140
MATERIAL	SA-376	SA-312 & SA-376
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-21	SS-20 & SS-21
KEY:	• SHOP WELD	✕ FIELD WELD

0	PSI472 SHIT. 03, REV. 7		
NO.	REVISION	ENG	CHKR DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	A-SI-2	REV.	0
AREA			
P&ID	9F05016		
SYSTEM ISO (S)	4C369PSI472 SHIT. 03		

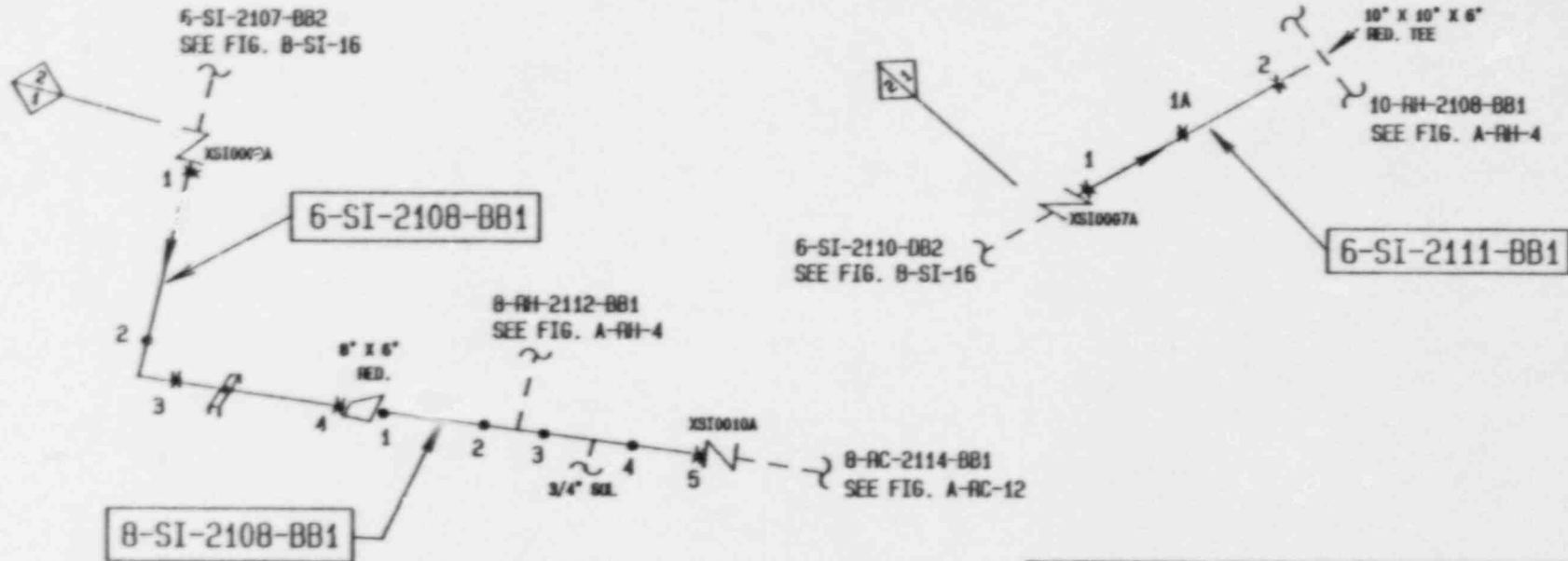




SOUTHWEST RESEARCH INSTITUTE

NOTES:

1. OTHER MATERIALS
  - FITTINGS SA-182 2" > DIA.
  - SA-403 2" < DIA.
  - FLANGES SA-182



E-1-3

SYSTEM	SAFETY INJECTION		
LINE	8-SI-2108-BB1	6-SI-2108-BB1	6-SI-2111-BB1
NOM. THK. /SCH.	0.906/160	0.719/160	0.719/160
MATERIAL	SA-376	SA-376	SA-312
INSP. METHOD	VOL./SUJ.	VOL./SUJ.	VOL./SUJ.
CAL. BLOCK	SS-11	SS-9	SS-8
KEY:	● SHOP WELD    X FIELD WELD		

1	FCR EP-03001			
0	PSI472 SHT. 01, REV. 7	ML	CAM	4/87
NO.	REVISION	ENG	CHKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	A-SI-3	REV. 1		
AREA				
PGID	9F05013			
SYSTEM ISO (S)	4C369PSI472 SHT. 01			



SOUTHWEST RESEARCH INSTITUTE

- NOTES
- OTHER MATERIALS
    - FITTINGS SA-182 2" > DIA.
    - SA-403 2" < DIA.
    - FLANGES SA-182

6-SI-2208-BB1



6-SI-2207-BB2  
SEE FIG. B-SI-18

6-SI-2211-BB1

6-SI-2210-BB2  
SEE FIG. B-SI-19

8-FH-2212-BB1  
SEE FIG. A-FH-2

EL. 8"  
10" X 10" X 6"  
RED. TEE

10-FH-2208-BB1  
SEE FIG. A-FH-2

8-SI-2208-BB1

8-FC-2214-BB1  
SEE FIG. A-FC-12

SYSTEM	SAFETY INJECTION		
LINE	8-SI-2208-BB1	6-SI-2208-BB1	6-SI-2211-BB1
NOM. THK. /SCH	0.906/160	0.719/160	0.719/160
MATERIAL	SA-376	SA-376	SA-312
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-11	SS-9	SS-8
KEY:	• SHOP WELD	✕ FIELD WELD	

NO.	REVISION	ENG	CKR	DATE
2	PER WALKDOWN			
1	FCR EP-02107	ML		5/87
0	PSI472 SHT. 05, REV. 7	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE A-SI-4 REV. 2

AREA

PGID 9F05014

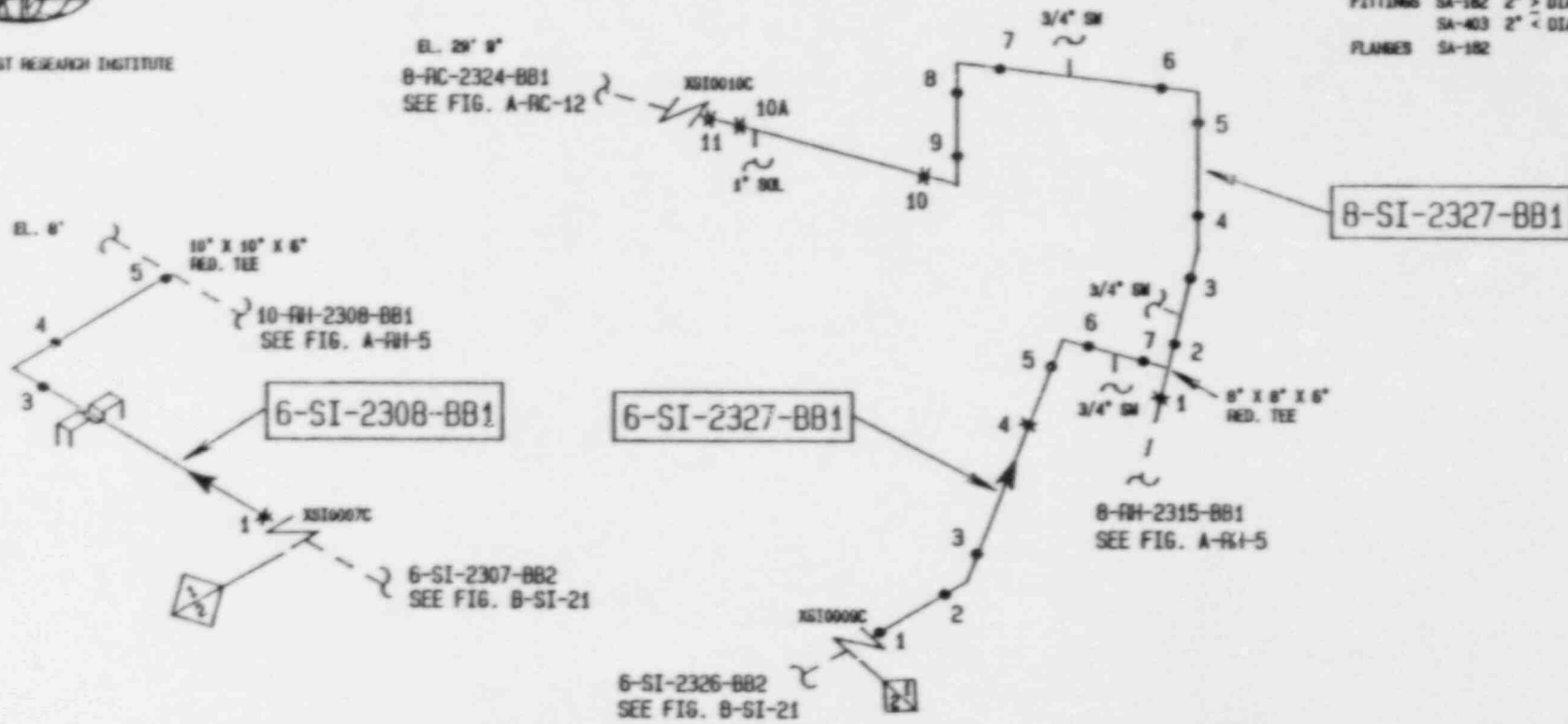
SYSTEM ISO (S) 4C369PSI472 SHT. 05

11141



SOUTHWEST RESEARCH INSTITUTE

NOTES  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



E-45

SYSTEM	SAFETY INJECTION		
LINE	8-SI-2327-BB1	6-SI-2308-BB1	6-SI-2327-BB1
NOM. THK. /SCH	0.906/160	0.719/160	0.719/160
MATERIAL	SA-312	SA-376	SA-312
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-10	SS-9	SS-8

KEY: ● SHOP WELD    ✕ FIELD WELD

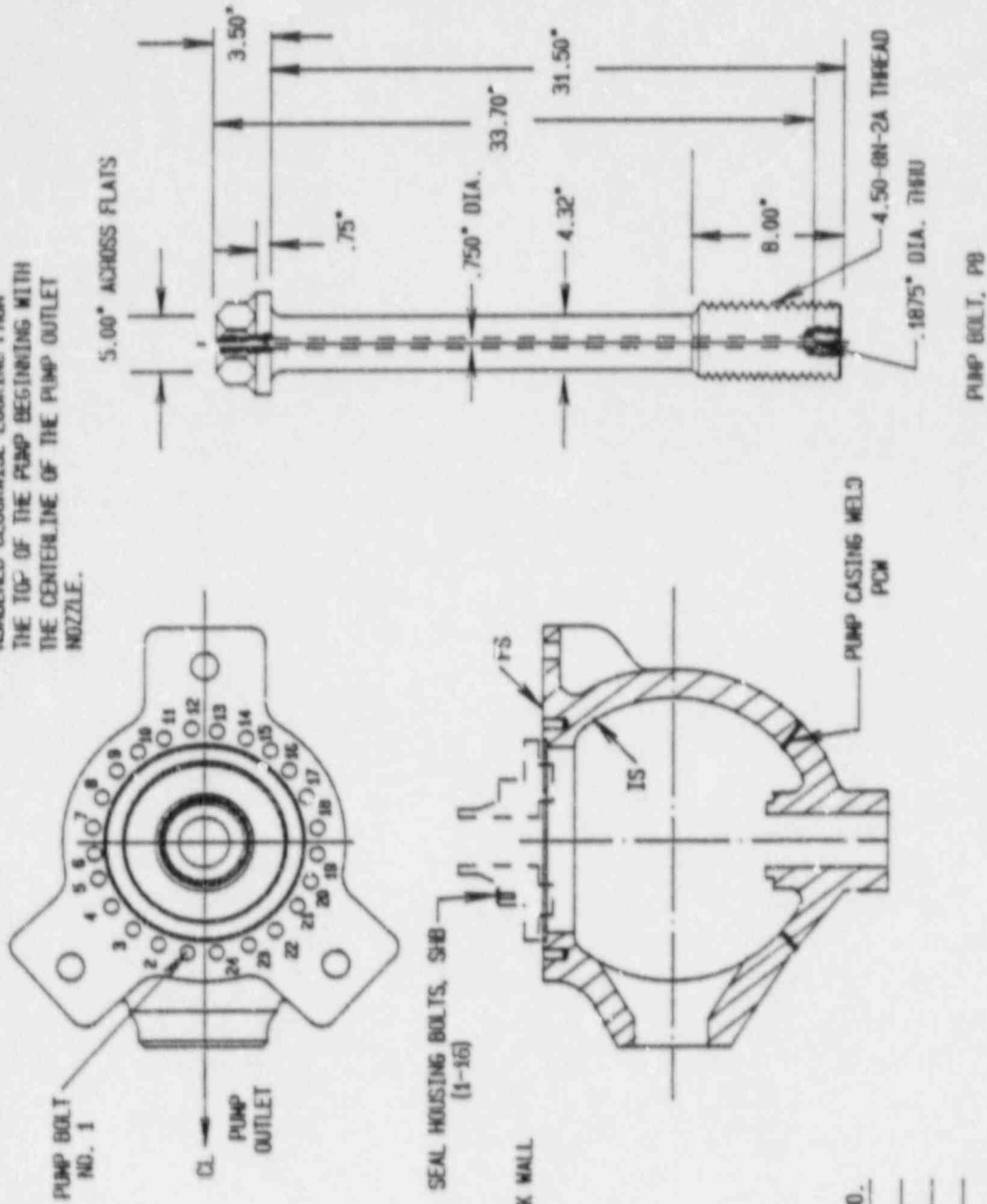
3	WALKDOWN	ML	7/87
2	ISSUED TO FCR 3410	ML	-
1	PSI472 SHT. 07, REV. 7	ML	-
0	PSI472 SHT. 07, REV. 6	ML	CAM 4/87
NO.	REVISION	E. #	CKR DATE

SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2  
 FIGURE A-SI-5 REV. 3  
 AREA  
 P&ID 9F05015  
 SYSTEM ISO (S) 4C369PSI472 SHT. 07



SOUTHERN RESEARCH INSTITUTE

NOTE: PUMP BOLTS AND SEAL HOUSING BOLTS NUMBERED CLOCKWISE LOOKING FROM THE TOP OF THE PUMP BEGINNING WITH THE CENTERLINE OF THE PUMP OUTLET NOZZLE.



PUMP BOLT, PB

MATERIAL

- CASING - SA-351, DF8 - 5.5" TO 6.5" THICK WALL
- PUMP BOLT - SA-540, GR B23, CLASS 4
- SEAL HOUSING BOLT - 2.000-8 X 8.40 LG

REF. DRAWINGS

- (M) 116E26, REV. 0, SHEETS 1 & 2
- (M) 174357, REV. 7
- (M) 115E580, REV. 14, SHEETS 1 & 2

RCP	SERIAL NO.	NAT. BD. NO.
2A	1080 - 116E26601-14	N/A
2B	1081 - 116E26601-14	N/A
2C	1082 - 116E26601-14	N/A
2D	1083 - 116E26601-14	N/A

COMPONENT:	REACTOR COOLANT PUMPS 2A, 2B, 2C, 2D
INSP. METHOD:	UT VI
SUPPLIER:	(S)

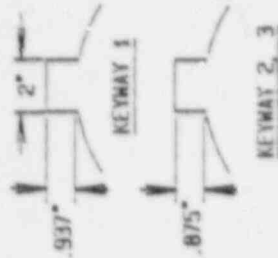
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2

FIGURE A-RCP-1

REV. 1

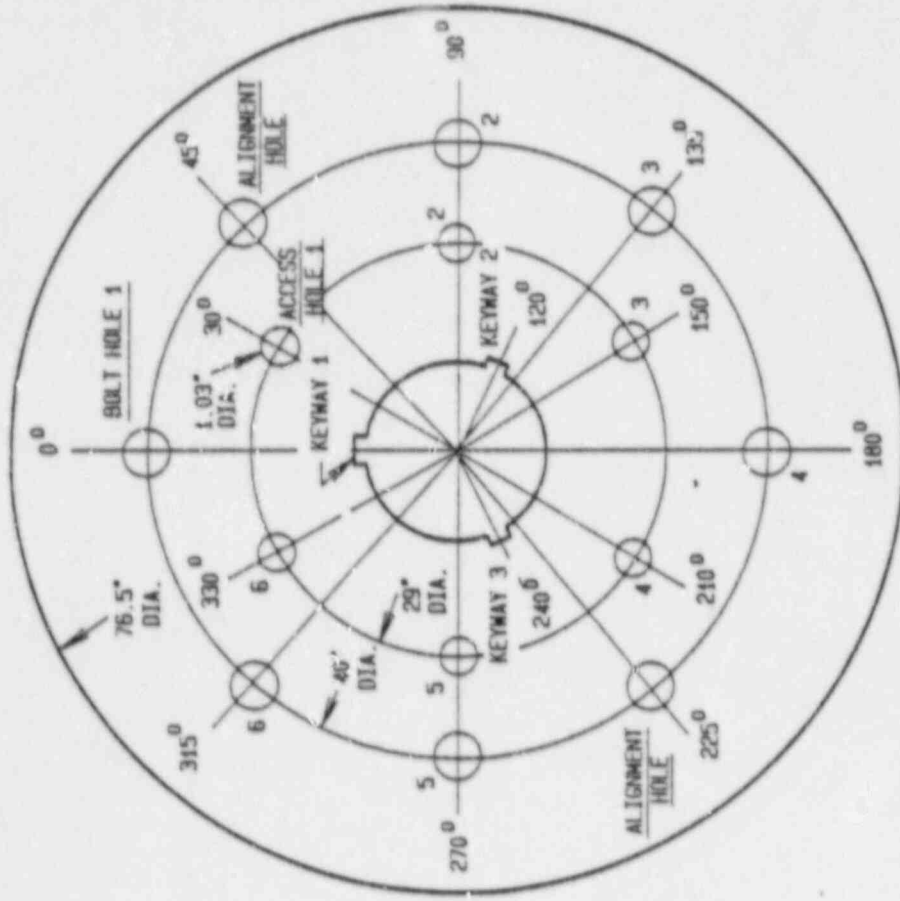


SOUTHWEST RESEARCH INSTITUTE



MATERIAL  
SA-533 GRADE B

REF. DRAWING  
N 1325F17



RCP PUMPS 2A, 2B, 2C

COMPONENT: REACTOR COOLANT PUMP FLYWHEEL

INSP. METHOD: UT

SUPPLIER: (S)

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE A-RCP-2 REV. 0



SOUTHWEST RESEARCH INSTITUTE

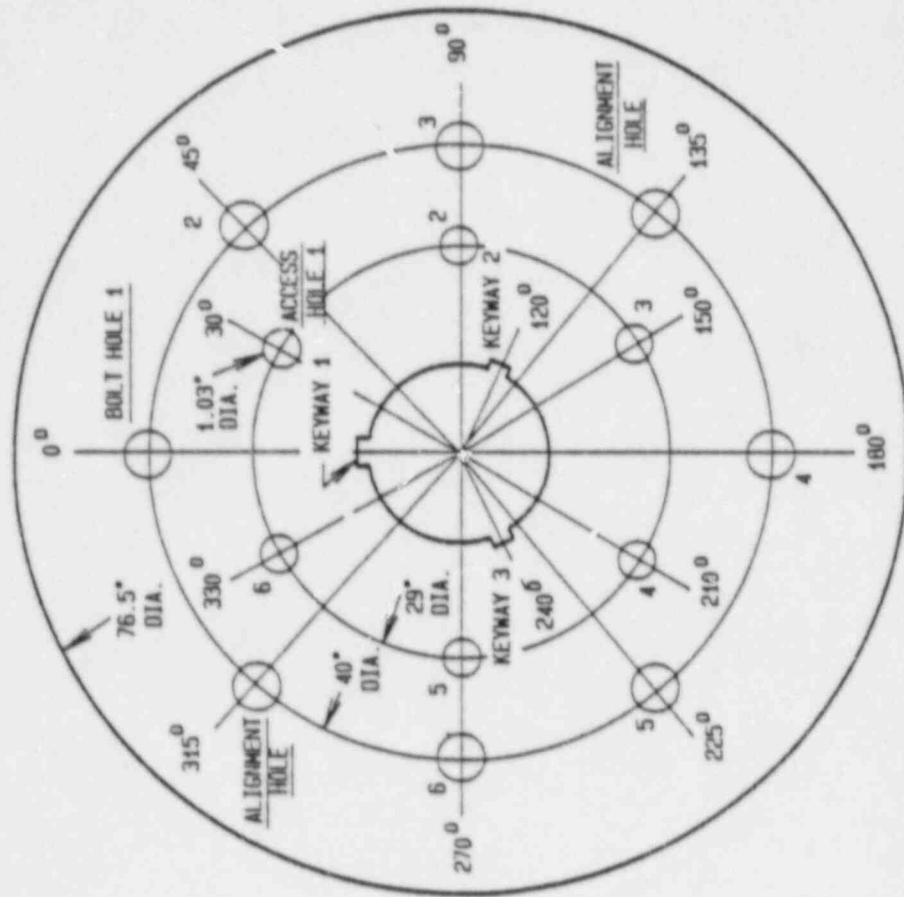


KEYWAY 1



KEYWAY 2, 3

MATERIAL  
SA-533 GRADE B  
REF. DRAWING  
M 1325F17



RCP PUMP 2C (ONLY)

COMPONENT: REACTOR COOLANT PUMP FLYWHEEL  
INSP. METHOD: UT  
SUPPLIER: M

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2  
FIGURE A-RCP-3 REV. 0

APPENDIX G

CLASS 2 WELD IDENTIFICATION FIGURES

APPENDIX G

CLASS 2 WELD IDENTIFICATION FIGURES

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B-RHX-1	Residual Heat Removal HXs 2A, 2B, 2C	G-3
B-LDX-1	Letdown Heat Exchanger 2A	G-4
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B-RCF-1	Reactor Coolant Filters 2A, 2B	G-6
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B-AF-1	8-AF-2006-GA2[C], 8(6)-AF-2006-GA2, 6-AF-2006-GA2	G-9
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B-AF-3	8-AF-2008-GA2[C], 8(6)-AF-2008-GA2, 6-AF-2008-GA2	G-11
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B-CS-2	12-CS-2201-UB2	G-18
B-CS-3	10-CS-2202-PB2, 8-CS-2202-PB2	G-19
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B-CS-5	10-CS-2102-PB2, 8-CS-2102-PB2	G-21
B-CS-6	10-CS-2302-PB2, 8-CS-2302-PB2	G-22
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APPENDIX G

CLASS 2 WELD IDENTIFICATION FIGURES

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B-SI-8	8(10)-SI-2102-PB2, 8-SI-2107-PB2, 8-SI-2105-KB2	G-65
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B-SI-10	8(10)-SI-2202-PB2, 8-SI-2202-PB2, 8-SI-2205-KB2	G-67
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APPENDIX G

CLASS 2 WELD IDENTIFICATION FIGURES

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B-SI-23	2-SI-2139-DB2	G-80
B-SI-24	2-SI-2232-DB2	G-81
B-SI-25	2-SI-2335-DB2	G-82
B-SL-1	6-SL-2010-UB2	G-83
B-SL-2	6-SL-2010-UB2	G-84
B-CSP-1	Containment Spray Pumps 2A, 2B, 2C	G-85
B-RHRP-1	RHR Pumps 2A, 2B, 2C	G-86
B-HHSIP-1	High Head SI Pumps 2A, 2B, 2C	G-87
B-LHSIP-1	Low Head SI Pumps 2A, 2B, 2C	G-88

## SYMBOLS FOR WELD IDENTIFICATION

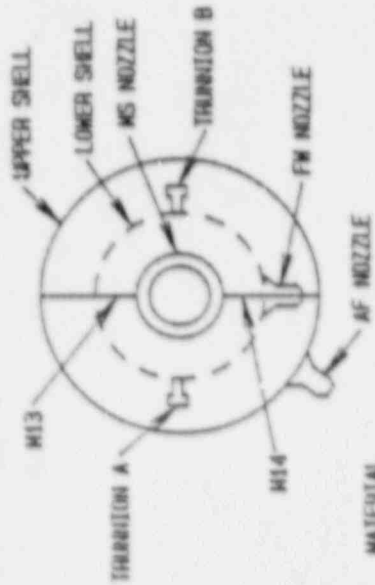
	BRANCH CONNECTION		REDUCER
	CLASS BOUNDARY		SHOP WELD
	ELBOW		SOCKET WELD
	FIELD WELD		TEE
	FLANGE		VALVE RELIEF
	FLOOR/GRATING		VALVE CHECK
	FLOW DIRECTION		VALVE CHECK (FLANGED)
	LINE BREAK		VALVE OTHER
	LINE CONTINUATION		VALVE OTHER (FLANGED)
	LINE CONTINUATION		WALL

## SYMBOLS FOR WELD SCHEDULE/CLASSIFICATION

	ISI WELD - FIRST PERIOD		TERMINAL END
	ISI WELD - SECOND PERIOD		AUGMENTED ISI
	ISI WELD - THIRD PERIOD		HIGH STRESS/USAGE FACTOR WELD (MANDATORY ISI)
			DISSIMILAR METAL WELD (MANDATORY ISI)
			TERMINAL END (MANDATORY ISI)



SOUTHWEST RESEARCH INSTITUTE



**MATERIAL**

SHELL SA-533 GR 2  
 UPPER HEAD SA-  
 NOZZLE SA-508  
 A/B D.2

**REF. DRAWINGS**

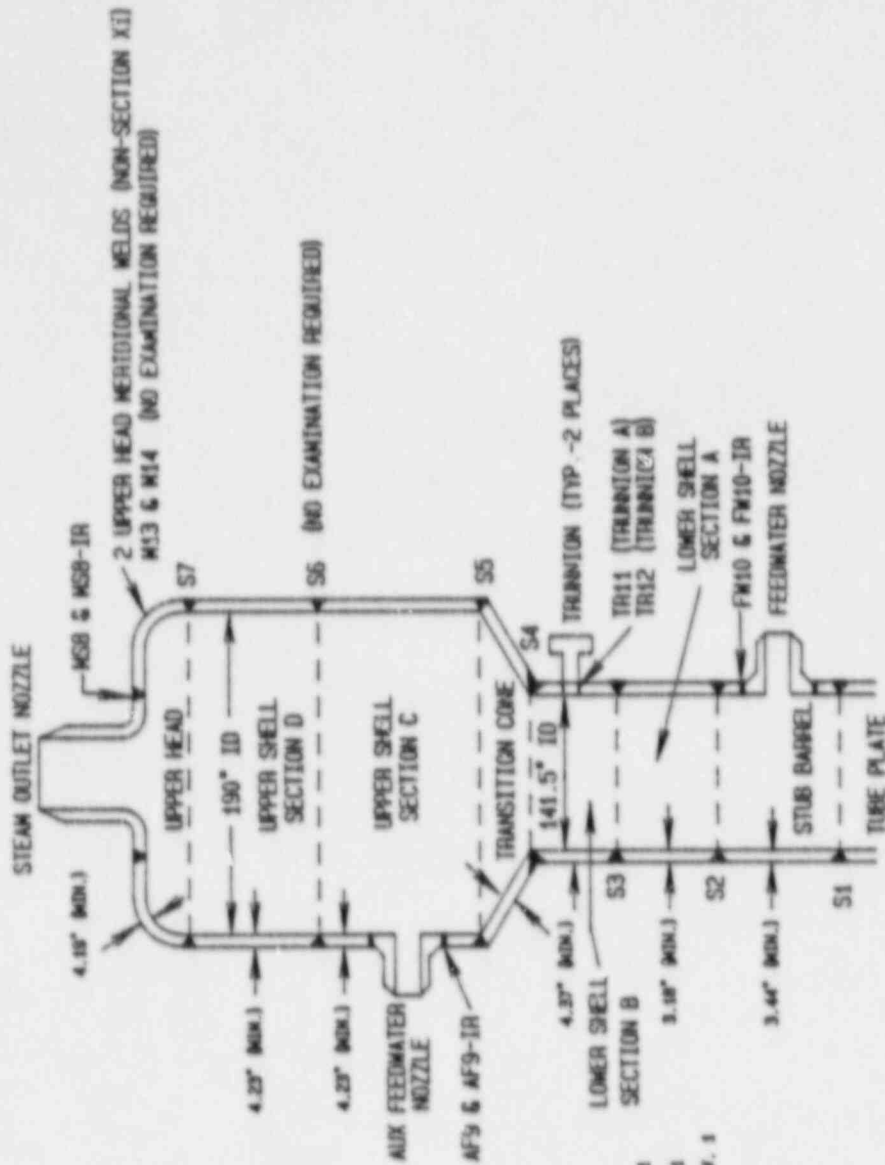
- ① 1101.83 SPTS 1 & 2, REV. 10
- ② 1101.84 SPTS 1 & 2, REV. 8
- ③ 1101.81C SPTS 1, 2 & 3, REV. 12
- ④ 1102.80C DWT 1, REV. 12
- ⑤ 1103.80C SPTS 1 & 2, REV. 6
- ⑥ 1106.119 SPTS 1 & 2, REV. 1
- ⑦ 1106.200 SPTS 1 & 2, REV. 1
- ⑧ 1106.201 SPTS 1 & 2, REV. 1
- ⑨ 1106.202 SPTS 1, 2 & 3, REV. 1

SS MODEL NO.	SERIAL NO.	NAT. NO.
2A	E2	2151
2B	E2	2152
2C	E2	2153
2D	E2	2154

COMPONENT: STEAM GENERATORS 2A, 2B, 2C, 2D (SECONDARY SIDE)

INSP. METHOD: UT, WT, PT

SUPPLIER: (1)



SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2

FIGURE B-56-1 REV. 1



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ENTIRE HX - CLASS. 2

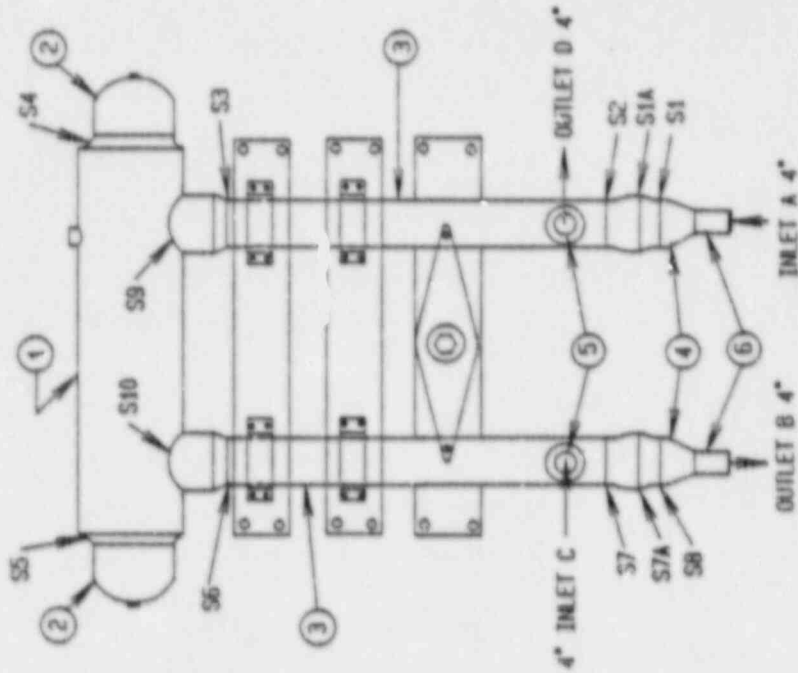
MATERIAL

- ① 14" OD, 1.5" NOM. WALL THICKNESS  
SA 240-304
- ② 14" OD, 7/8" NOM. WALL THICKNESS  
SA 240-304
- ③ 10" OD, SCH 140, 1" NOM. WALL THICKNESS  
SA 358-304, CL1
- ④ CONCENTRIC REINFOR 4 X 10
- ⑤ 4" OD, SCH 160, .531" NOM. WALL THICKNESS  
SA 192-F304
- ⑥ 4" OD, SCH 160, .531" NOM. WALL THICKNESS  
SA 312-304

BOLTING - N/A

REF. DRAWING

6351, REV. 3



SUPPORT  
ATTACHMENT  
WELDS  
(4 INUS)  
A1, A2, A3 & A4

REGENERATIVE HEAT EXCHANGER  
(CSAWNG)

SERIAL NO.: 2380-1B

NAT. NO.: 2052

COMPONENT: REGENERATIVE HX 2A

INSP. METHOD: UT, PT

SUPPL. IFR: JOSEPH DAT CORP.

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE B-16X-1 REV. 2



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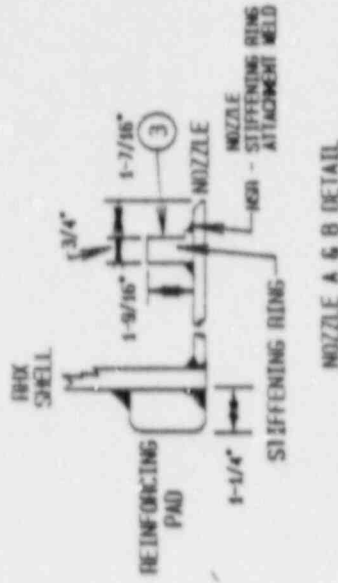
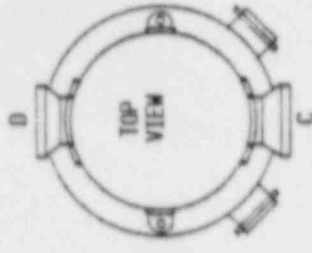
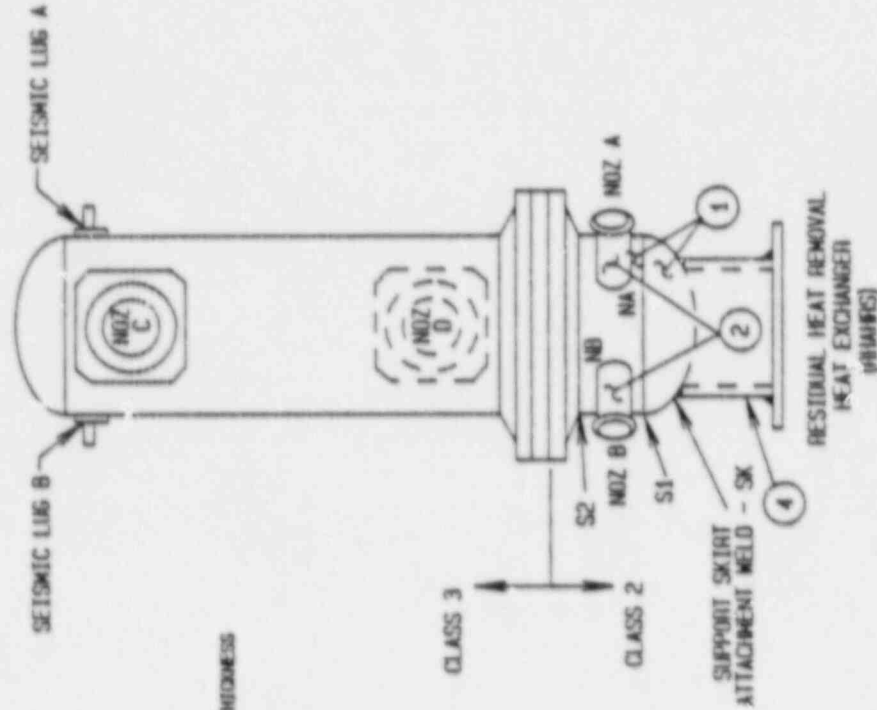
**MATERIAL**

- ① SA 240-304, 7/8" NOM. WALL THICKNESS
- ② SA 312-304, 12" OD, SCH 40, .406" NOM WALL THICKNESS
- ③ SA 240-304, 3/4" NOM. WALL THICKNESS
- ④ CARBON STEEL, 3/4" NOM. WALL THICKNESS

WALTING - 1-3/2" DIA. (CLASS 2 E-PUMP)

**REF. DRUMMING**

- 5002, REV. 2
- 5004, REV. 3
- 5006, REV. 1



NOZZLE A & B DETAIL

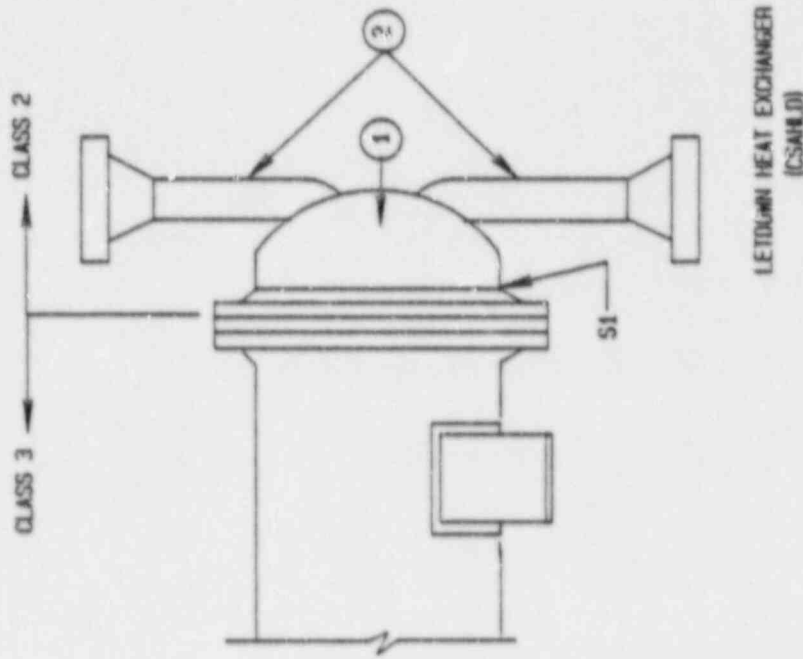
HX	SERIAL NO.	NAT.	BO.	NO.
2A	2312-4D			993
2B	2312-4E			994
2C	2312-4F			995

COMPONENT:	RESIDUAL HEAT REMOVAL HX'S 2A, 2B, 2C
INSP. METHOD:	UT, PT
SUPPLIER:	JOSEPH DAT CORP.

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2  
FIGURE B-100-1 REV. 1



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MATERIAL

- ① 29-5/8" OD, .750" NOM. WALL THICKNESS  
SA 240-304
- ② 4" OD, SCH 40, .237" NOM. WALL THICKNESS  
SA 312-304

BOILING - 1-3/4" DIA. (CLASS 2 EXCEPT)

REF. DRAWINGS

5/80, REV. 2

SERIAL NO.: 2312-1B  
 MAT. ID. NO.: 987

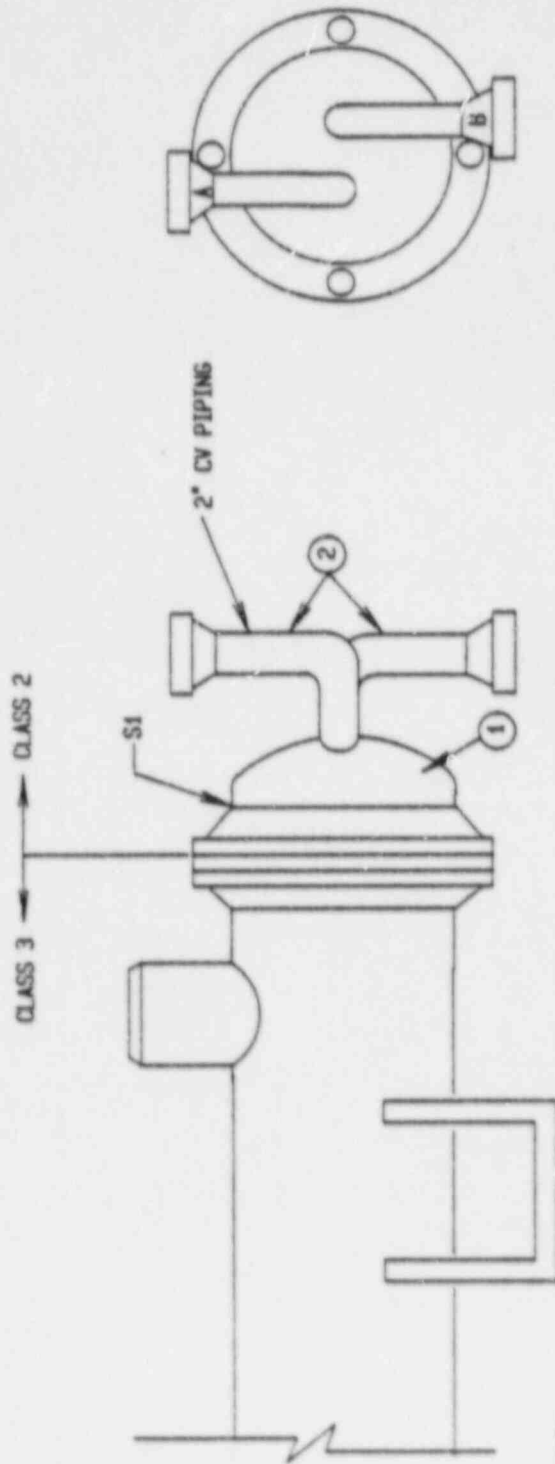
COMPONENT: LETDOWN HEAT EXCHANGER 2A  
 INSP. METHOD: UT  
 SUPPLIER: JOSEPH DAT CORP.

SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2

FIGURE B-LDX-1 REV 1



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**MATERIAL**

- (1) 8-5/8" OD, .75 MIN. WALL THICKNESS  
SA 240-304
- (2) 2" OD, 50# 160, .344" MIN. WALL THICKNESS  
SA 312-304

BOILING - 1-3/4" DIA. (CLASS 2 EXEMPT)

REF. DRAWING

5015, REV. 3

SERIAL NO.: 2312-3B  
 NAT. BU. NO.: 503

COMPONENT:	EXCESS LETDOWN HX 2A
INSP. METHOD:	UT
SUPPLIER:	JOSEPH OAT CORP.

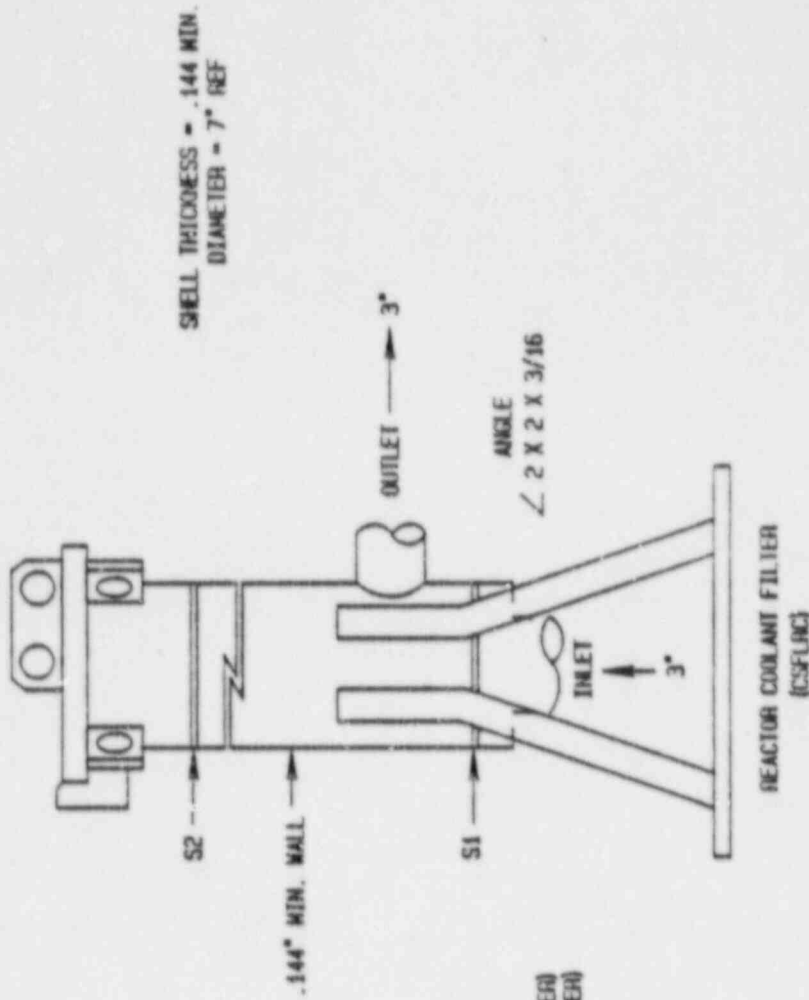
EXCESS LETDOWN HEAT EXCHANGER  
(CSMHEL)

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	B-ELDX-1 REV. 1





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MATERIAL

SHELL: 7" OD, 0.765" NOM. WALL THICKNESS  
SA 312, TP 304

HEAD: 7/16" NOM. WALL THICKNESS, SA240-304 (UPPER)  
7/8" NOM. WALL THICKNESS, SA 240-304 (LOWER)

BOLTING: 5/8" DIA. (CLASS 2 EXEMPT)

REF. DRAWING

SEID10702 142EG488R, REV. B

REF. SERIAL NO. NA. 3, NO.

2A	SEH-51193-4	19481
2B	SEH-51193-5	19482

COMPONENT:	REACTOR COOLANT FILTERS 2A & 2B
INSP. METHOD:	UT
SUPPLIER:	PAUL TRINITY MICRO CORP.

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE B-18F-1 REV. 1



SOUTHWEST RESEARCH INSTITUTE

MATERIAL

SHELL: 4" OD, STD GRADE  
.674" NOM. WALL THICKNESS  
SA 312, TP 304

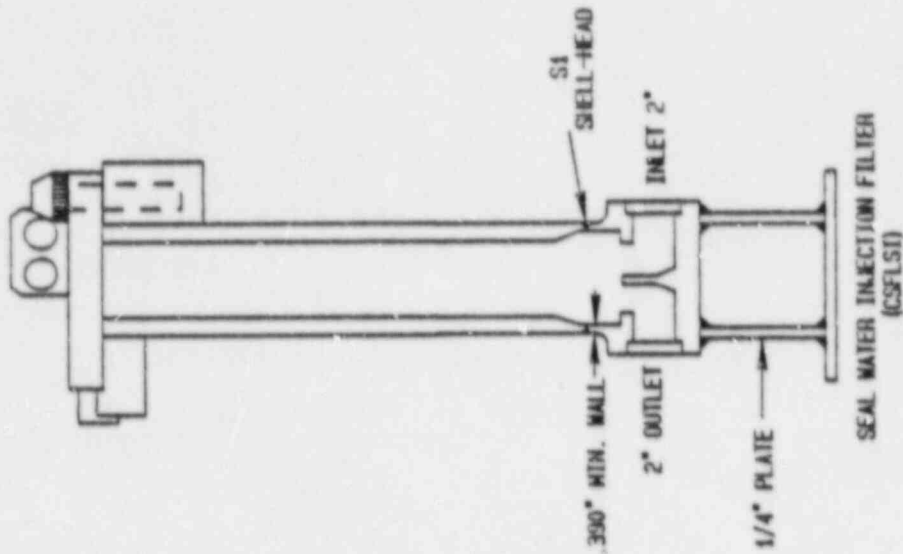
BOLTING: 1" DIA. (CLASS 2 EXEMPT)

REF. DRAWING

SEI810662 138KLC32, REV. C

SWIF SERIAL NO.	NAT. NO. NO.
2A	5EH-51209-1 19022
2B	5EH-51209-2 19023

COMPONENT:	SEAL WATER INJECTION FILTERS 2A & 2B
INSP. METHOD:	UI
SUPPLY TECH:	PAIR THIRTY MICRO CORP.

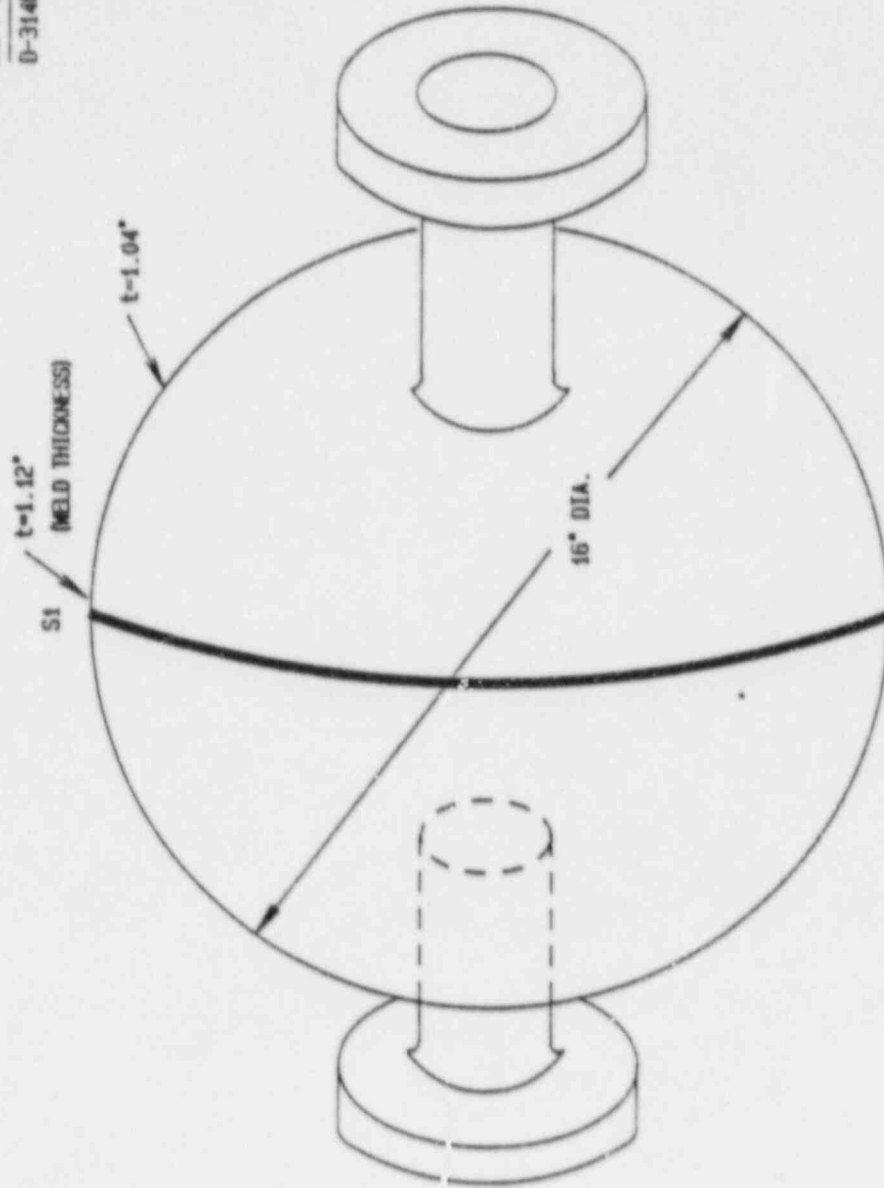


SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2  
FIGURE 8-5M-1 REV. 1



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MATERIAL  
SA-240 TP-304  
REF. DRAWING  
D-31485



SERIAL NO.: MD440  
NAT. BU. NO.: 17B

COMPONENT: PULSATION DAMPER 2A (CV)  
INSP. METHOD: UT  
SUB-PL. I.E.H.: JURISON CONTROLS

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2  
FIGURE B-110-1 REV. 1

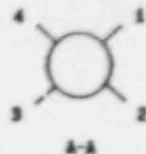


SOUTHWEST RESEARCH INSTITUTE

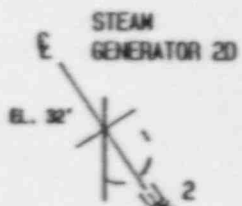
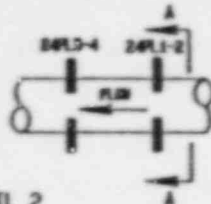
6-AF-2006-GA2 (CONT'D)  
SEE FIG. B-AF-2



6-AF-2006-GA2



DETAIL 2

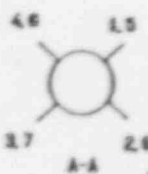
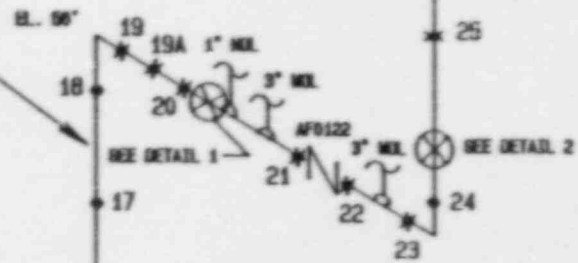


NOTES:

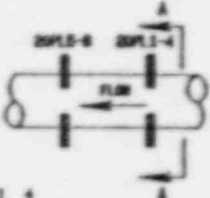
- OTHER MATERIALS  
FITTINGS SA-234 2" < DIA. < 10"  
SA-420 10" < DIA.  
FLANGES SA-350
- BC INDICATES THAT PORTION OF THE LINE WITHIN THE NOB.

8 (6) -AF-2006-GA2

8-AF-2006-GA2 [C]



DETAIL 1



SYSTEM	AUXILIARY FEEDWATER		
LINE	8-AF-2006-GA2 [C]	8 (6) -AF-2006-GA2	6-AF-2006-GA2
NOM. THK. /SCH	0.500/80	0.562/120	0.432/80
MATERIAL	SA-106	SA-106	SA-106
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-2	CS-73	CS-1

KEY: \* SHOP WELDED    X FIELD WELDED

3	ISSUED PER WALKDOWN	CAF	CLM	7/87
2	PAF402 SHT. 02, REV. 9	ML		10/87
1	ISSUED TO FCN 3390	ML		7/87
0	PAF402 SHT. 02, REV. 8	ML	CAW	4/87
NO.	REVISION	ENG	CKR	DATE

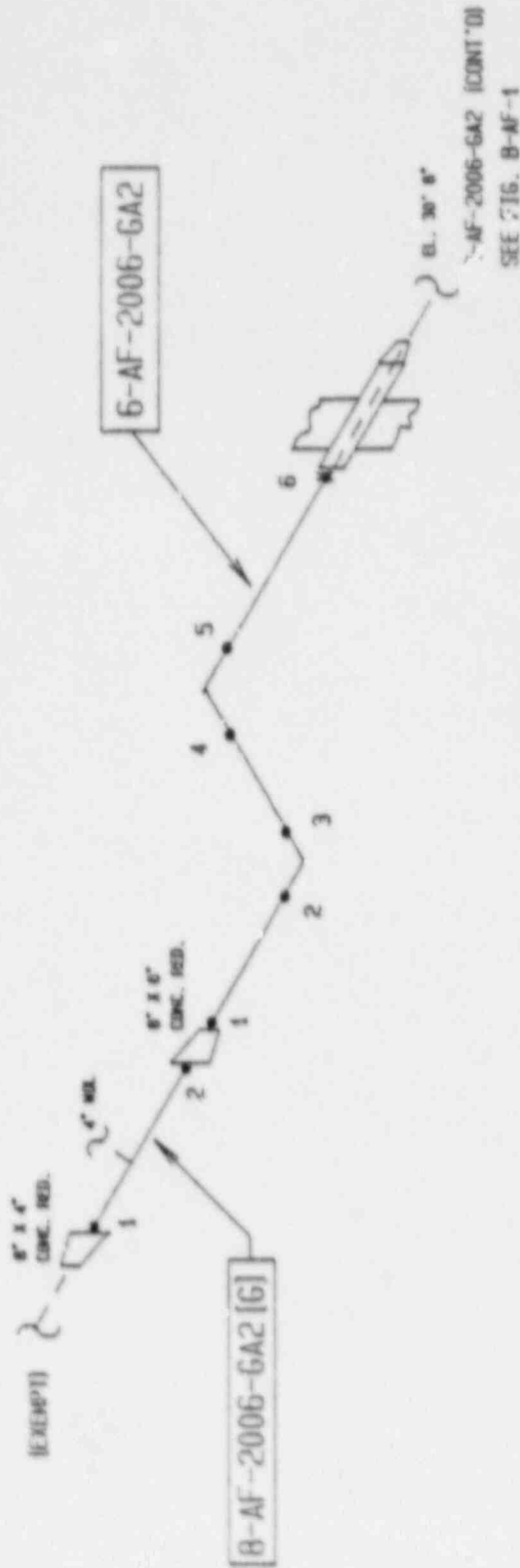
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	B-AF-1 REV. 3
AREA	
PGID	9F00024
SYSTEM I&O (S)	2C309PAF402 SHT. 02



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NOTES:

- OTHER MATERIALS  
FITTINGS SA-234 2" < DIA. < 18"  
SA-400 18" < DIA.  
FLANGES SA-250
- ISO INDICATES THAT  
PORTION OF THE LINE  
WITHIN THE RED.



NO.	REVISION	ENG	CHK	DATE
0	PAF602 SHT. 01, REV. 11			12/20/80

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE B-AF-2 REV. 0

AREA

P&ID 9F00024

SYSTEM ISO (S) 4636/PAF602 SHT. 01

SYSTEM	AUXILIARY FEEDWATER	B-AF-2006-GA2
LINE	B-AF-2006-GA2 [G]	B-AF-2006-GA2
NOM. THK. / SCH.	0.500/80	0.432/80
MATERIAL	SA-106	SA-106
INSP. METHOD	WEL./SU.	WEL./SU.
CAL. BLOCK	CS-2	CS-1

KEY: \* SHOP WELD    \* FIELD WELD

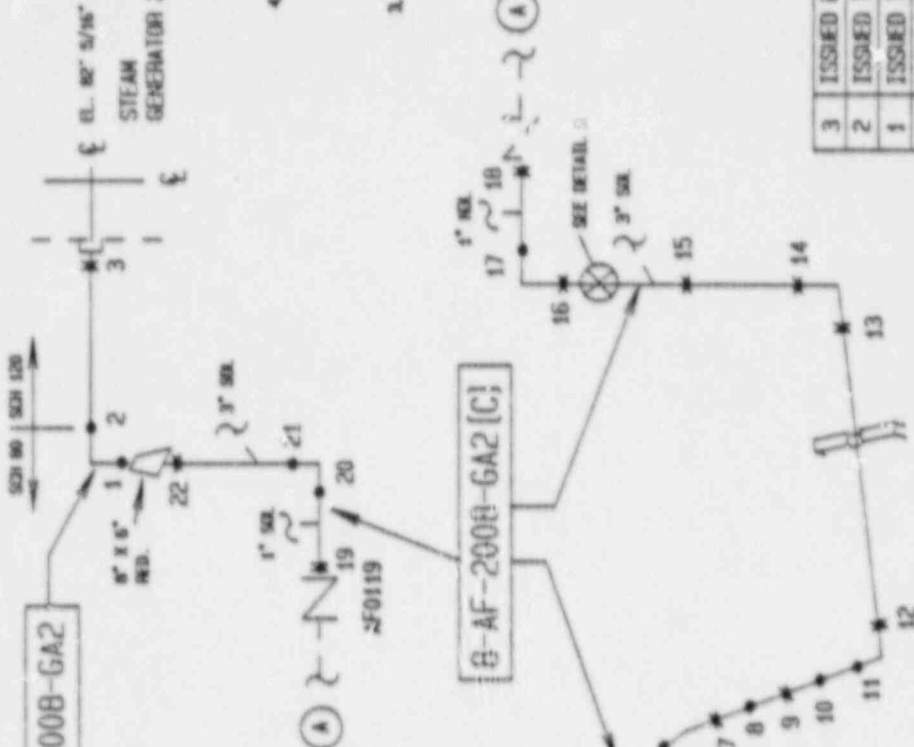


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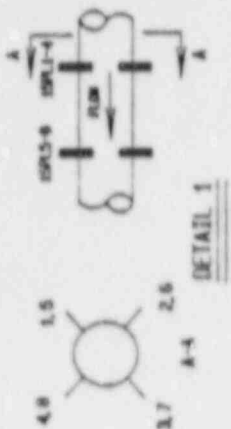
6-AF-2008-GA2  
SEE FIG. D-AF-4

BL. 30' 6"

B (6) -AF-2008-GA2



- NOTES
1. OTHER MATERIALS  
FITTINGS SA-234 2" < DIA. < 80"  
SA-403 10" < DIA.  
FLANGES SA-350
  2. IS INDICATES THAT  
POSITION OF THE LINE  
WITHIN THE BOX.



DETAIL 1

SYSTEM		AUXILIARY FEEDWATER	
LINE	6-AF-2008-GA2 [C]	8 (6) -AF-2008-GA2	6-AF-2008-GA2
NOM. THK. /SCH	0.500/80	0.432/80 & 0.562/120	0.432/80
MATERIAL	SA-106	SA-106	SA-106
INSP. METHOD	W.L./SU.	W.L./SU.	W.L./SU.
CAL. BLOCK	CS-2	CS-1 & CS-73	CS-1

KEY: ♦ SHOP WELD    ■ FIELD WELD

NO.	REVISION	ENG	CHK	DATE
3	ISSUED PER MALIKDOWN			11/23
2	ISSUED TO FOR 3875	ML		10/87
1	ISSUED TO FOR 3295	ML		7/87
0	PAF 402 SHT. 02, REV. 8	ML	CAM	4/87

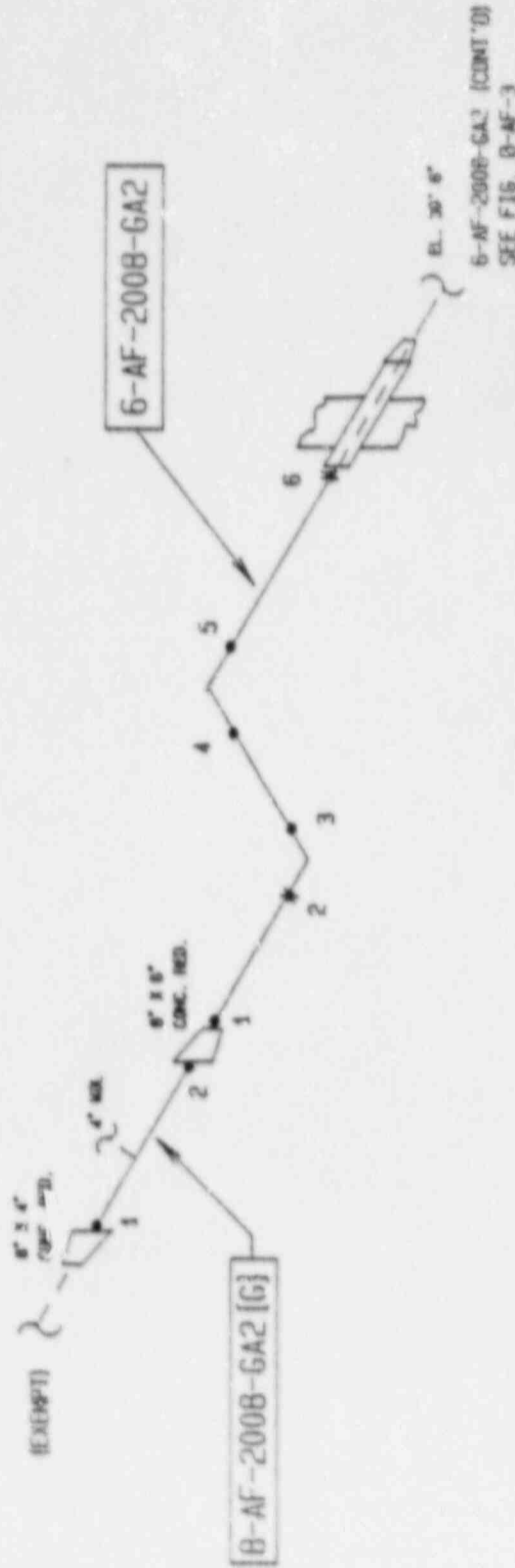
SOUTH TEXAS PROJECT ELECTRIC	
GENERATING STATION UNIT 2	
FIGURE	B-AF-3 REV. 3
AREA	
PGID	9F00024
SYSTEM ISO (S)	2C36/PNF402 SHT. 02



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NOTES

1. OTHER MATERIALS  
FITTINGS SA-234 2" < DIA. < 10"  
SA-400 10" < DIA.  
FLANGES SA-200
2. (S) INDICATES THAT  
POSITION OF THE LINE  
OUTSIDE THE HCB.



NO.	REVISION	DATE	BY	CHK
0	PAF602 SHI. 02, REV. 9	9/7/80	PAF	02
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE		B-AF-4	REV.	0
AREA				
PGID		9F00024		
SYSTEM ISO (S)		46359MFE02 SNT. 02		

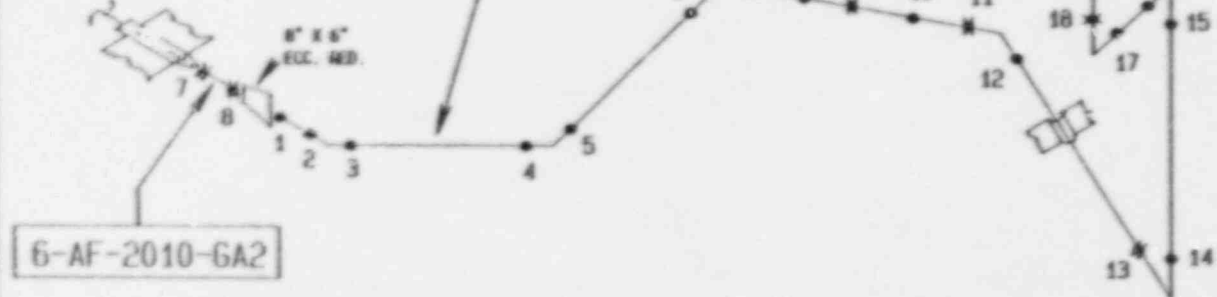
SYSTEM	AUXILIARY FEEDWATER
LINE	B-AF-2008-GA2 [6]
NOH. THK. /SCH.	0.500/80
MATERIAL	SA-106
INSP. METHOD	VRT./SU.
CAL. BLOCK	CS-2
KEY:	• SHOP WELD    ✕ FIELD WELD



SOUTHWEST RESEARCH INSTITUTE

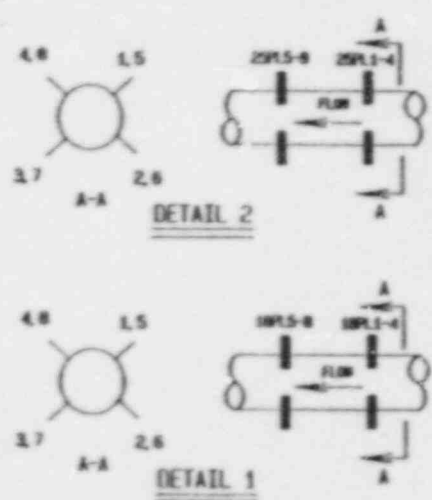
G-13

6-AF-2010-GA2 (CONT'D)  
SEE FIG. B-AF-6



**NOTES:**

- OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. ≤ 10"  
 SA-420 10" < DIA.  
 FLANGES SA-350
- (C) INDICATES THAT PORTION OF THE LINE WITHIN THE HCB.



SYSTEM	AUXILIARY FEEDWATER		
LINE	B-AF-2010-GA2 [C]	B(6)-AF-2010-GA2	6-AF-2010-GA2
NOM. THK. /SCH	0.500/80	0.432/80 & 0.562/120	0.432/80
MATERIAL	SA-106	SA-106	SA-106
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-2	CS-1 & CS-73	CS-1

KEY: ● SHOP WELD    ▲ FIELD WELD

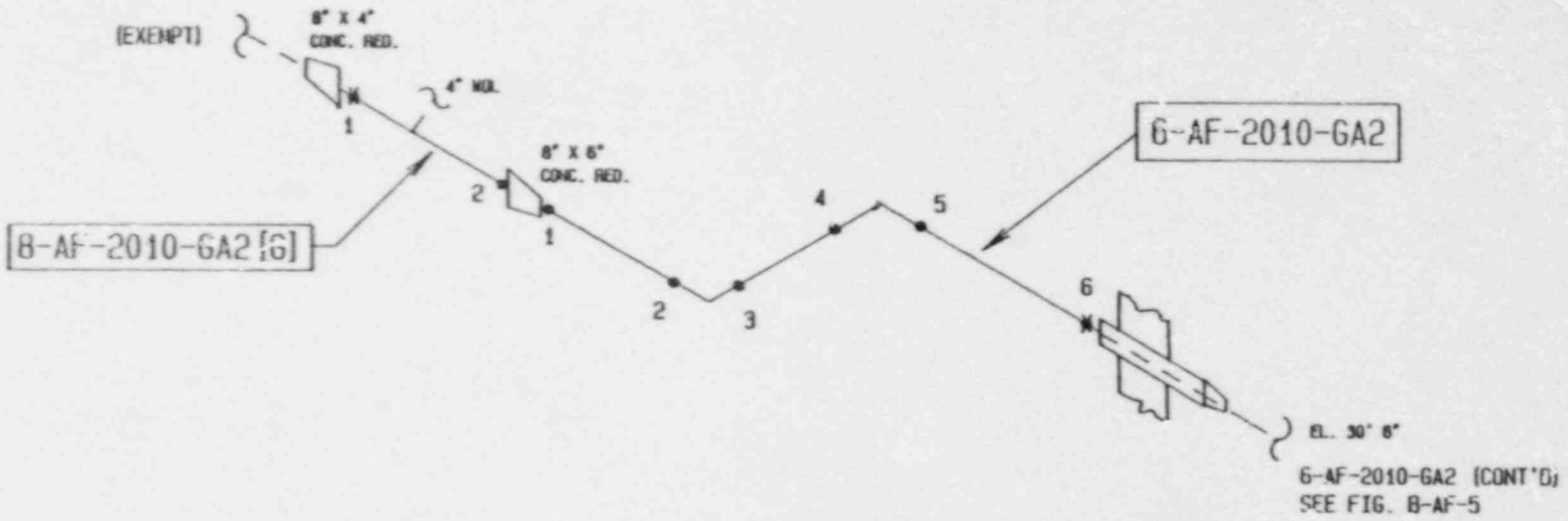
2	ISSUED PER WALKDOWN			
1	ISSUED TO FCN 3831			
0	PAF402 SHT. 01, REV. 5			
NO.	REVISION	ENG	CHK	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-AF-5	REV.	2	
AREA				
P&ID	9F00024			
SYSTEM ISO (S)	2C369PAF402 SHT. 01			





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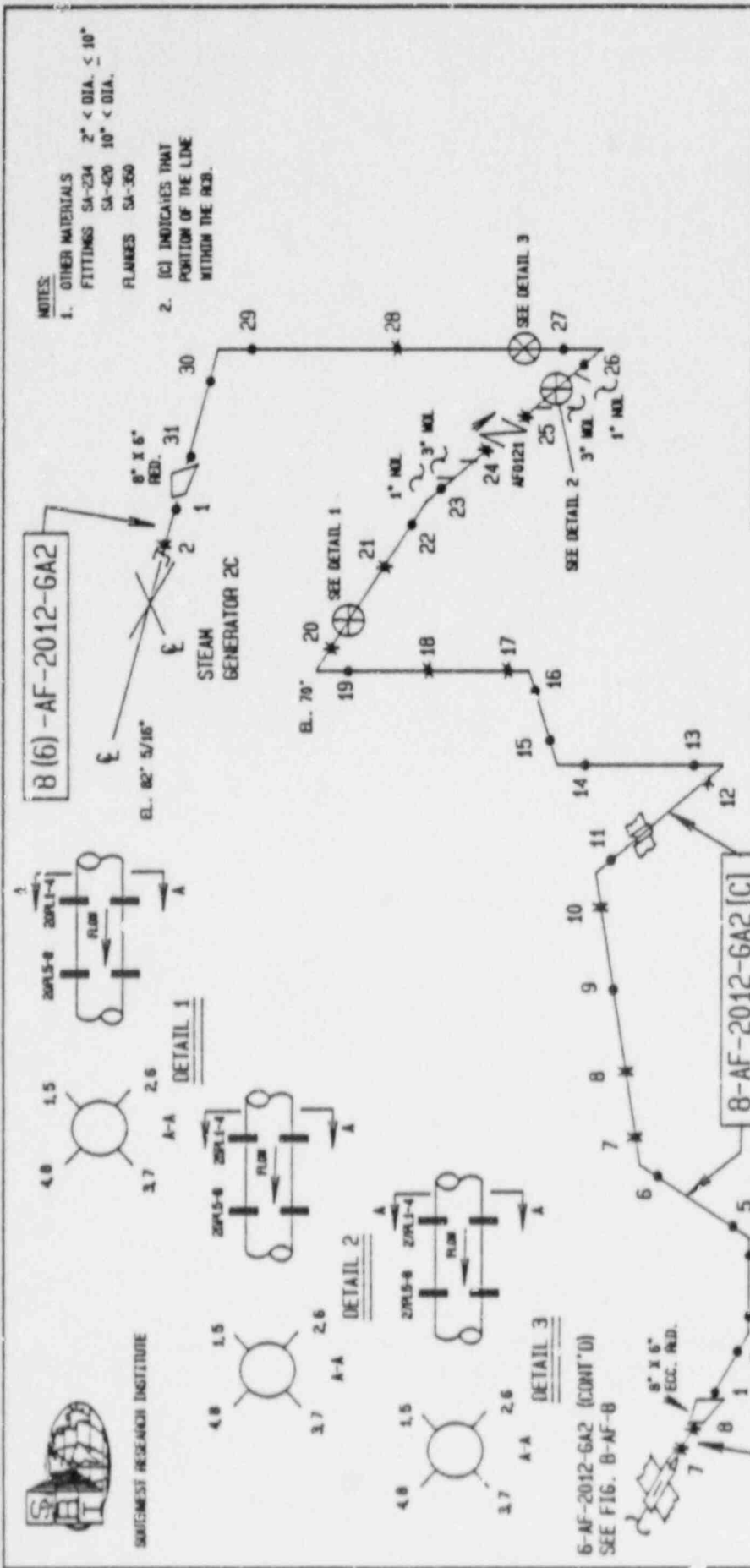
NOTES:  
 34 2" < DIA. < 10"  
 1 1" < DIA.  
 40  
 NE



G-14

SYSTEM	AUXILIARY FEEDWATER	
LINE	B-AF-2010-GA2 [G]	6-AF-2010-GA2
NOM. THK./SCH.	0.500/80	0.432/80
MATERIAL	SA-106	SA-106
INSP. METH/JD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-2	CS-1
KEY:	• SHOP WELD	✕ FIELD WELD

0	PAF602 SHt. 03, REV. 10	<i>Cam</i>	<i>Boye</i>
NO.	REVISION	ENG	CKR DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	B-AF-6	REV.	0
AREA			
PSID	9F00024		
SYSTEM ISO (S)	46369PAF602 SHt. 03		



- NOTES:**
- OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. < 10"  
 SA-420 10" < DIA.  
 FLANGES SA-350
  - (C) INDICATES THAT PORTION OF THE LINE WITHIN THE RED.

2	ISSUED PER WALKDOWN		
1	ISSUED TO FCN 3831	ML	10/37
0	PAF-402 SHIT. 01, REV. 5	ML	CAM 4/87
NO.	REVISION	ENG	CKR DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE		B-AF-7 REV. 2	
AREA			
PGID		9F00024	
SYSTEM ISO (S)		2C-59PAF402 SHIT. 01	

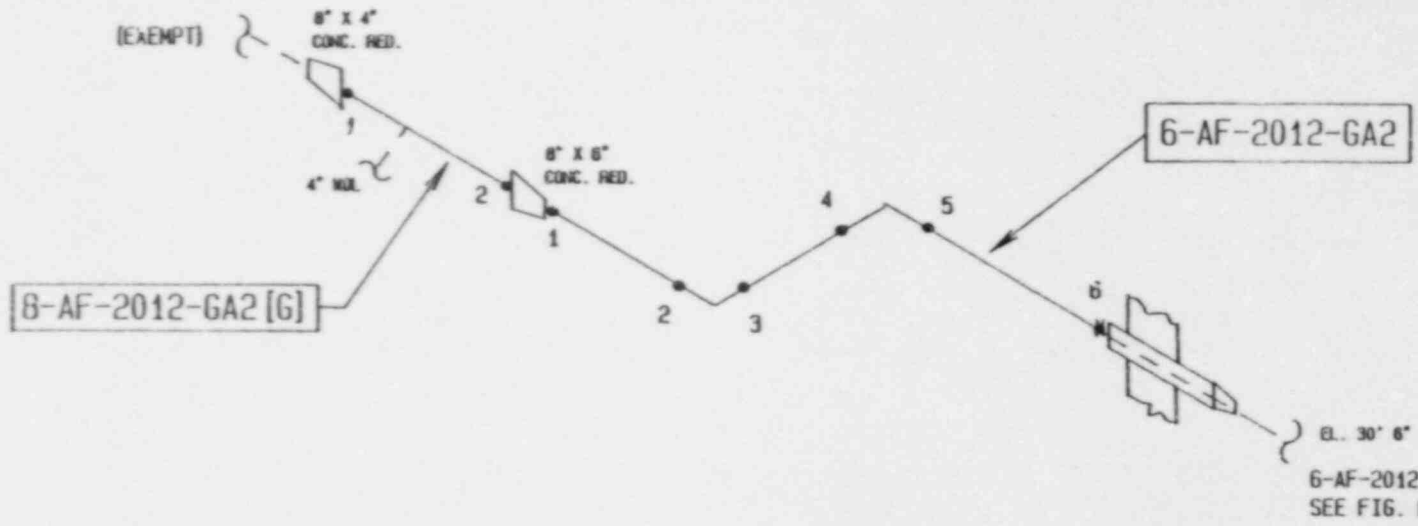
SYSTEM	AUXILIARY FEEDWATER		
L LINE	8-AF-2012-6A2 [C]	8 (6) -AF-2012-6A2	6-AF-2012-6A2
NOM. THK. /SCH	0.500/80	0.562/120	0.432/80
MATERIAL	SA-106	SA-106	SA-106
INSP. METHOD	VOL./SI.	VOL./SI.	VOL./SI.
CAL. BLOCK	CS-2	CS-73	CS-1
KEY:	● SHOP WELD	✕ FIELD WELD	



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NOTES:

1. OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. < 10"  
           SA-420 10" < DIA.  
 FLANGES SA-350
2. [G] INDICATES THAT  
 PORTION OF THE LINE  
 OUTSIDE THE HCB.



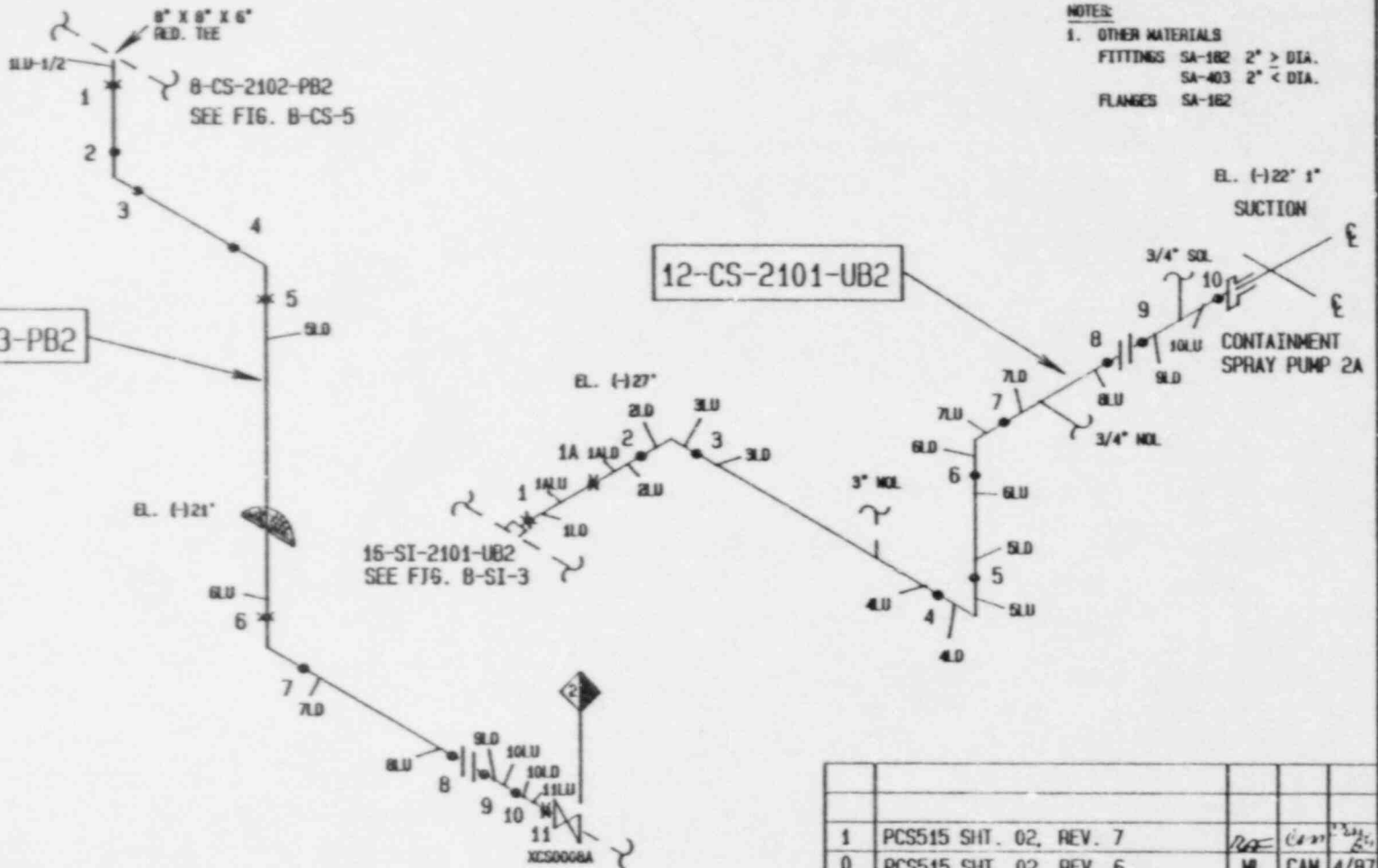
G-16

SYSTEM	AUXILIARY FEEDWATER	
LINE	B-AF-2012-GA2 [G]	6-AF-2012-GA2
NOM. THK. /SCH.	0.563/80	0.432/80
MATERIAL	SA-106	SA-106
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-2	CS-1
KEY:	• SHOP WELD	✕ FIELD WELD

0	PAF602 SHT. 04, REV. 8			
NO.	REVISION	ENG	CKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-AF-8	REV.	0	
AREA				
P&ID	9F00024			
SYSTEM ISO (S)	46369PAF602 SHT. 04			



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NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
           SA-403 2" < DIA.  
 FLANGES SA-162

G-17

SYSTEM	CONTAINMENT SPRAY	
LINE	12-CS-2101-UB2	6-CS-2103-PB2
NOM. THK. /SCH.	0.375/40S	0.280/40S
MATERIAL	SA-312	SA-312
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-12	SS-84
KEY:	● SHOP WELD	✱ FIELD WELD

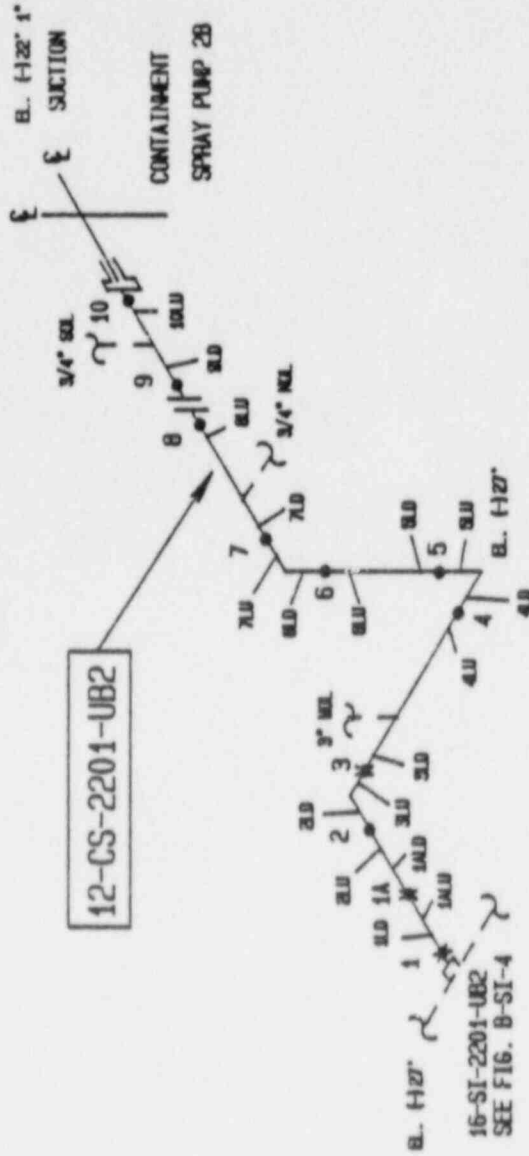
NO.	REVISION	ENG	CKR	DATE
1	PCS515 SHT. 02, REV. 7	RF	CAM	4/87
0	PCS515 SHT. 02, REV. 6	ML	CAM	4/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-CS-1	REV. 1		
AREA				
P&ID	9F05037			
SYSTEM ISO (S)	5F369PCS515 SHT. 02			



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NOTES:

- OTHER MATERIALS
- FITTINGS SA-102 2" > DIA.  
SA-403 2" < DIA.
- FLANGES: SA-102



2	PCS515 SHIT. 01, REV. 6	Rev	5/87
1	FCN 2P-02964	M	5/87
0	PCS515 SHIT. 01, REV. 5	M	CAM 4/87
NO.	REVISION	ENG	CHKR DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	B-CS-2 REV. 2		
AREA			
PSID	9F05037		
SYSTEM 160 (6)	2F369PCS515 SPT. 01		

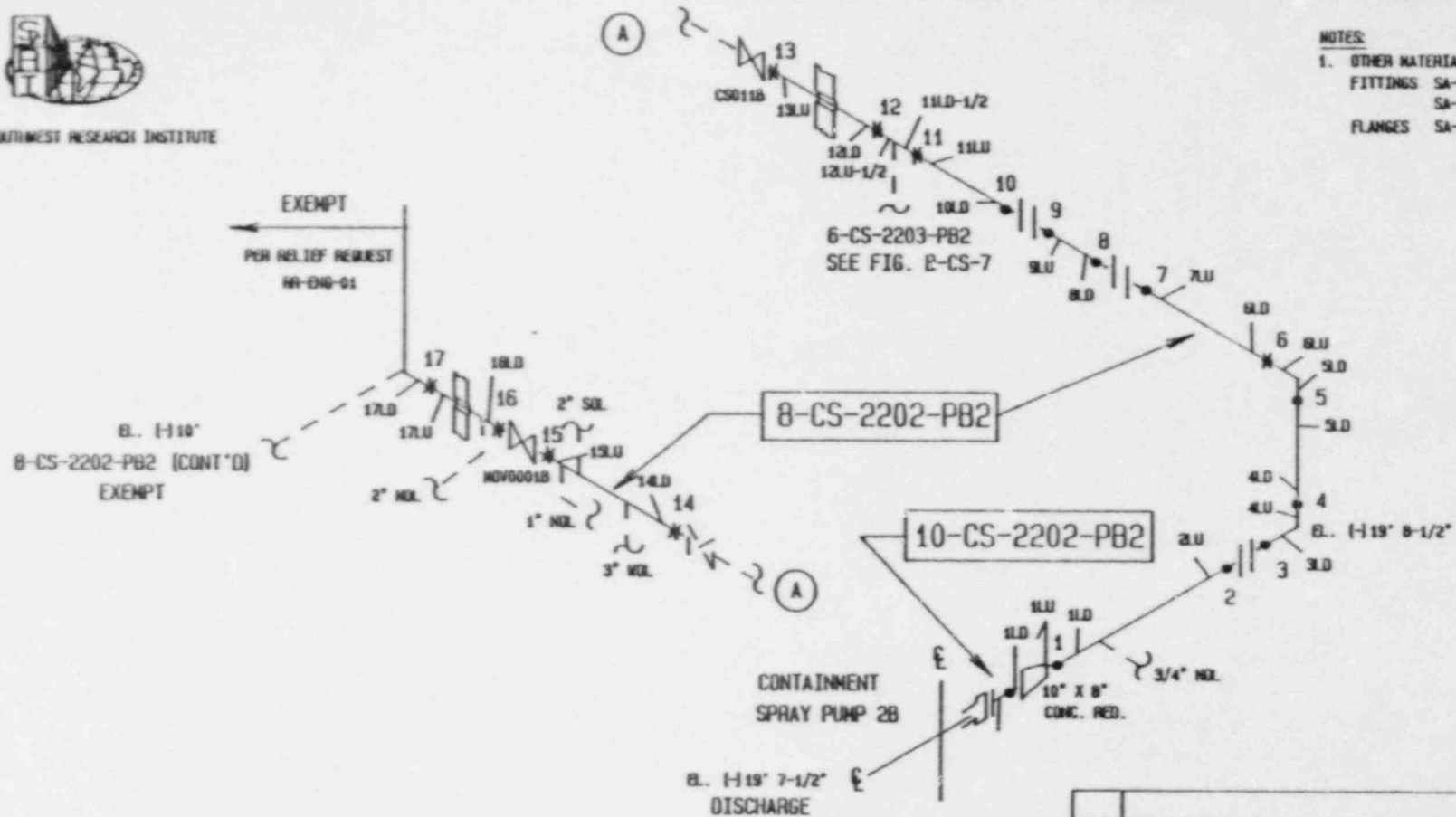
SYSTEM	CONTAINMENT SPRAY
LINE	12-CS-2201-UB2
NOM. THK. /SCH.	0.375/40S
MATERIAL	SA-312
INSP. METHOD	VL./SU.
CAL. BLOCK	SS-12
KEY:	• SHOP WELD    X FIELD WELD



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- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

G-19



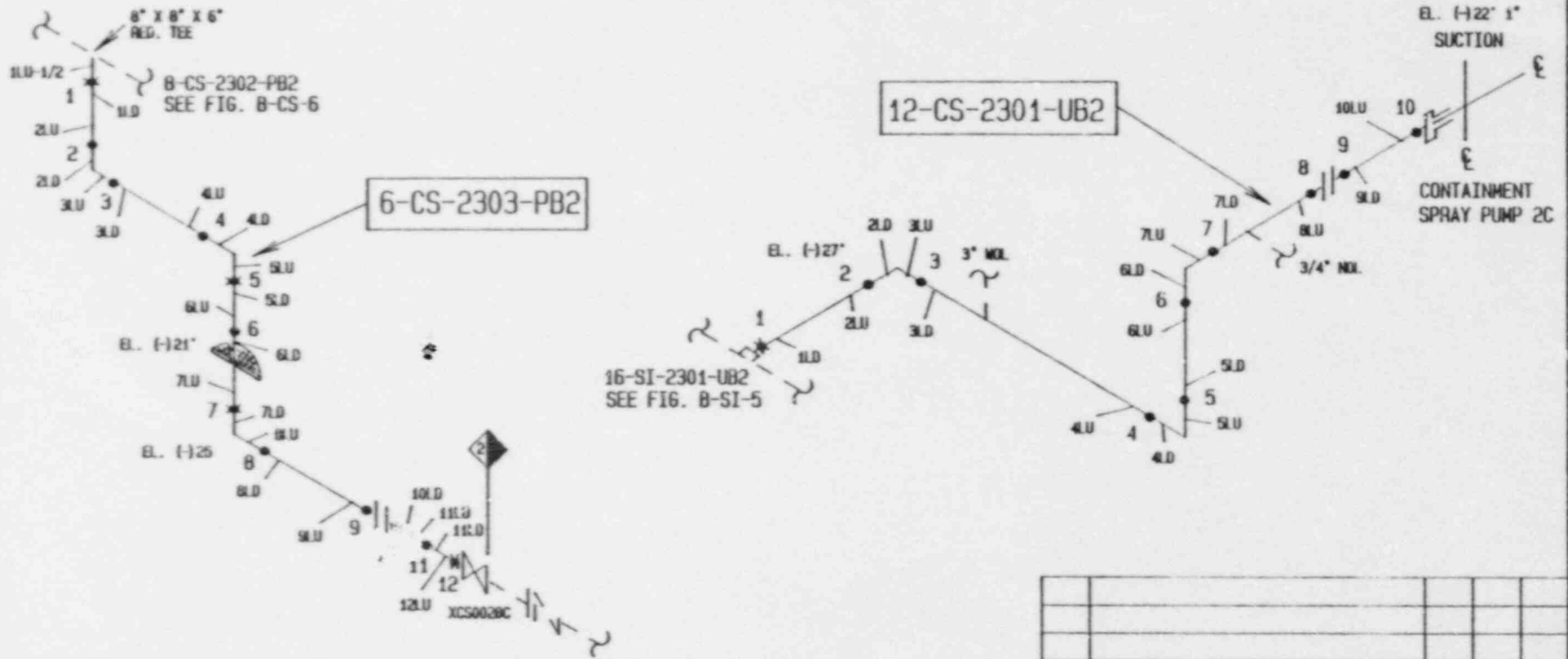
SYSTEM	CONTAINMENT SPRAY	
LINE	10-CS-2202-PB2	8-CS-2202-PB2
NOM. THK. /SCH.	0.365/40S	0.322/40S
MATERIAL	SA-403	SA-312
INSP. METHOD	SJ.	VOL./SJ.
CAL. BLOCK	N/A	SS-87
KEY:	• SHOP WELD	✕ FIELD WELD

0	PCS515 SHT. 01, REV. 5	<i>M. Carr</i>	<i>Lee</i>
NO.	REVISION	ENG	CKR DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	8-CS-3	REV.	0
AREA			
P&ID	9F05037		
SYSTEM ISO (S)	2F369PCS515 SHT. 01		



SOUTHWEST RESEARCH INSTITUTE

- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



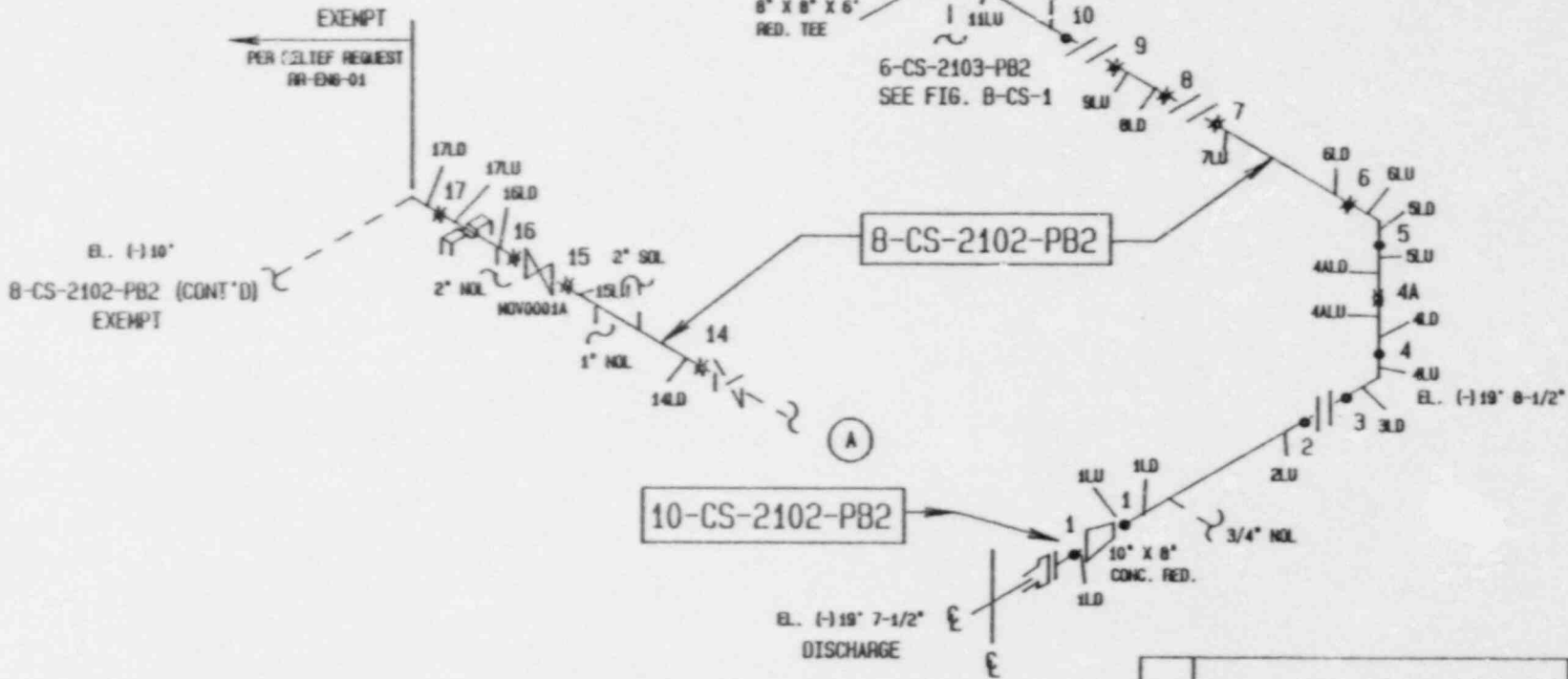
G-20

NO.	REVISION	ENG	CKR	DATE
0	PCS515 SHT. 03, REV. 5			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-CS-4	REV.	0	
AREA				
P&ID	9F05037			
SYSTEM ISO (S)	5F369PCS515 SHT. 03			

SYSTEM	CONTAINMENT SPRAY	
LINE	12-CS-2301-UB2	6-CS-2303-PB2
NOM. THK. / SCH.	0.375/40S	0.280/40S
MATERIAL	SA-312	SA-312
INSP. METHOD	VOL. / SU.	VOL. / SU.
CAL. BLOCK	SS-12	SS-85
KEY:	● SHOP WELD    ✕ FIELD WELD	



SOUTHWEST RESEARCH INSTITUTE



- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 E' > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

G-21

SYSTEM	CONTAINMENT SPRAY	
LINE	10-CS-2102-PB2	8-CS-2102-PB2
NOM. THK. /SCH.	0.365/40S	0.322/40S
MATERIAL	SA-403	SA-312
INSP. METHOD	SU.	VOL. /SU.
CAL. BLOCK	N/A	SS-87
KEY:	• SHOP WELD	X FIELD WELD

CONTAINMENT  
 SPRAY PUMP 2A

NO.	REVISION	ENG	CKR	DATE
1	PCS515 SHT. 02, REV. 7			
0	PCS515 SHT. 02, REV. 6	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2

FIGURE B-CS-5 REV. 1

AREA

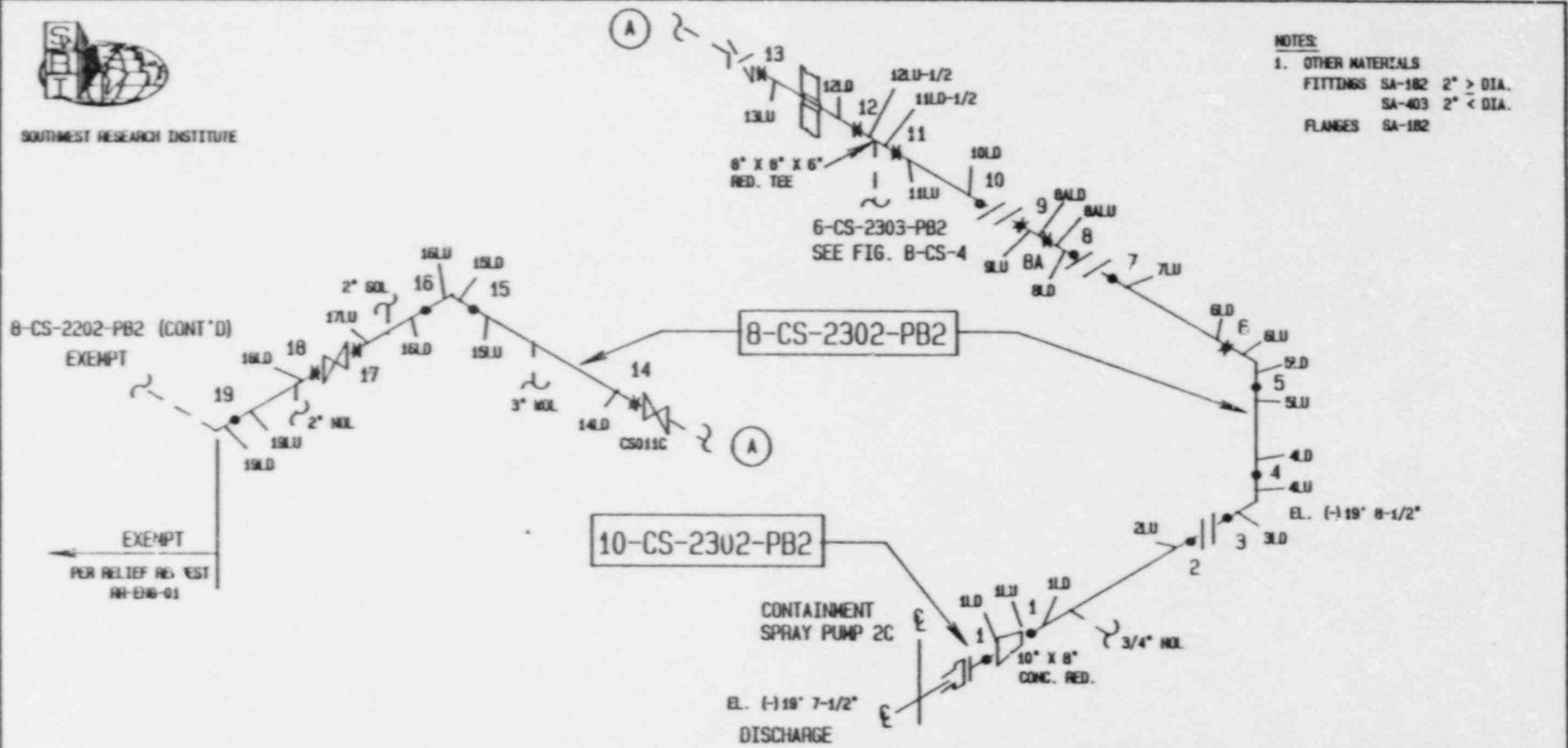
P&ID 9F05037

SYSTEM ISO (S) 5F369PCS515 SHT. 02





SOUTHWEST RESEARCH INSTITUTE



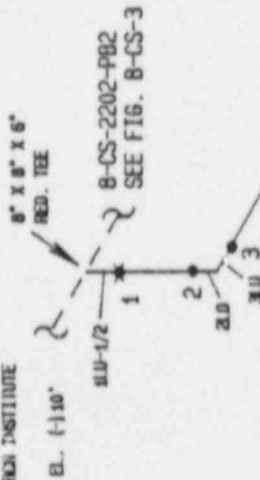
C-22

SYSTEM	CONTAINMENT SPRAY	
LINE	10-CS-2302-PB2	8-CS-2302-PB2
NOM. THK. /SCH.	0.365/40S	0.322/40S
MATERIAL	SA-403	SA-312
INSP. METHOD	SU.	VOL./SU.
CAL. BLOCK	N/A	SS-87
KEY:	● SHOP WELD	✱ FIELD WELD

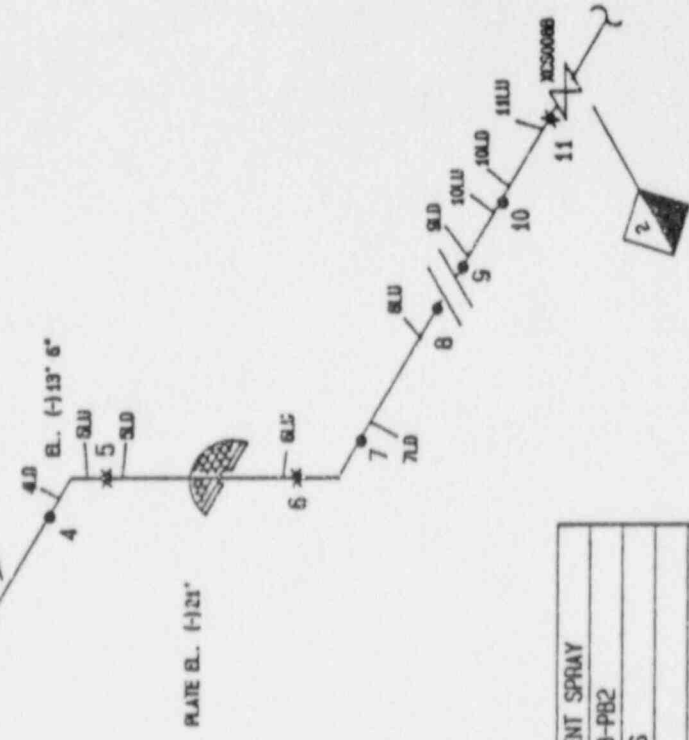
1	FCN 2P-02393	RAF	Cam	2/86
0	PCS515 SHT. 03, REV. 6	ML	CAH	4/87
NO.	REVISION	ENG	CKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-CS-6	REV.	1	
AREA				
P&ID	9F05037			
SYSTEM ISO (S)	5F369PCS515 SHT. 03			



SOUTHWEST RESEARCH INSTITUTE



6-CS-2203-PB2



NOTES

- OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

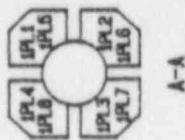
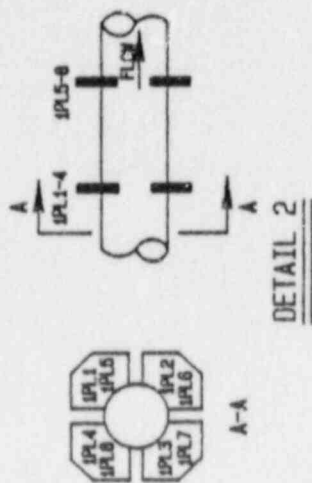
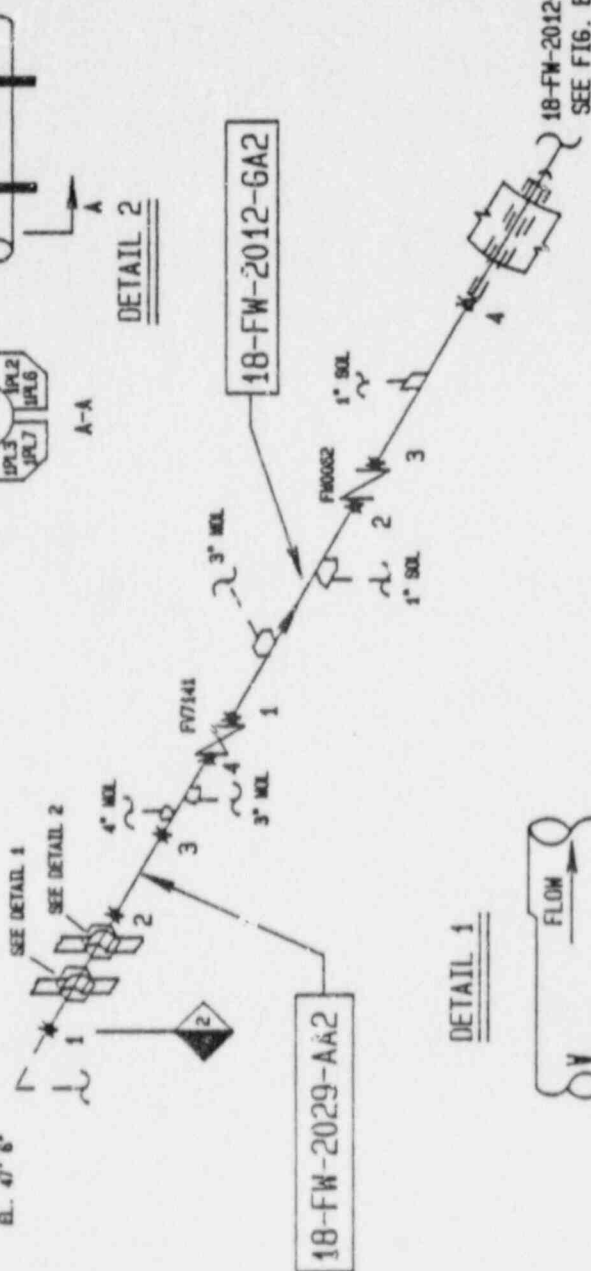
SYSTEM	CONTAINMENT SPRAY
LINE	6-CS-2203-PB2
NOM. THK. /SCH.	0.280/40S
MATERIAL	SA-312
INSP. METHOD	VOL. /SU.
CAL. BLOCK	CS-85
KEY:	• SHOP WELD    ✕ FIELD WELD

NO.	ISSUED PER WALKDOWN	ENG	CHKR	DATE
0	PCS515 SHT. 04, REV. 2	ML	CAM	4/87
	REVISION			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 3				
FIGURE	B-CS-7	REV.	1	
AREA				
P&ID	9F05037			
SYSTEM ISO (S)	5F369PCS515 SHT. 04			

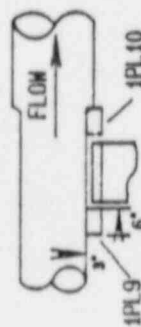


SOUTHWEST RESEARCH INSTITUTE

EL. 47' 6"



DETAIL 1



1/2" X 3" X 6" PL  
(NO EXAM REQ'D PER ASME SECT. XI)

NOTES:

1. OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. < 10"  
 SA-420 10" < DIA.  
 FLANGES SA-350

1	ISSUED PER WALKDOWN	CAF	CAF	3/25/87
0	PFM633 SHT. 02 REV. B	ML	CAF	4/87
NO.	REVISION	ENG	CHKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-FW-1	REV.	1	
AREA				
P&ID	9F00062 & 9F00063			
SYSTEM ISO 9)	26369PFM633 SHT. 02			

SYSTEM	FEEDWATER	
LINE	18-FW-2012-6A2	18-FW-2029-AA2
NOM. THK. / SCH	0.938/80	1.375/120
MATERIAL	SA-333	SA-333
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-3	CS-4
KEY:	● SHOP WELD	✕ FIELD WELD

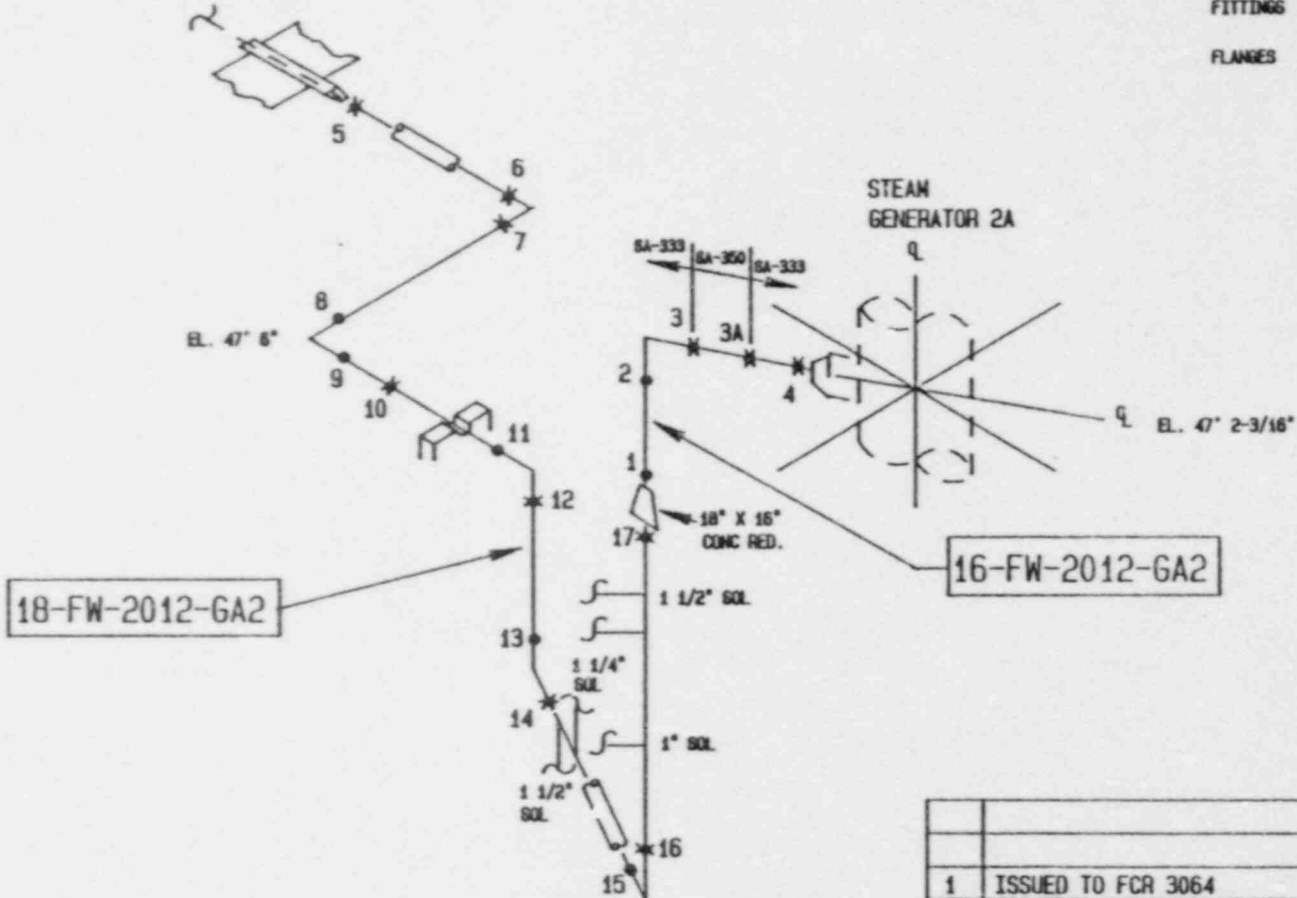


SOUTHWEST RESEARCH INSTITUTE

18-FW-2012-GA2 (CONT'D)  
SEE FIG. B-FW-1

NOTES:

1. OTHER MATERIALS
- FITTINGS SA-234 2" < DIA. < 10"
- SA-420 10" < DIA.
- FLANGES SA-350



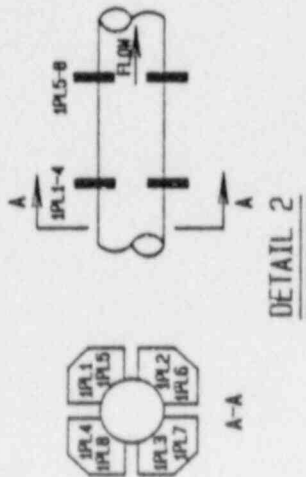
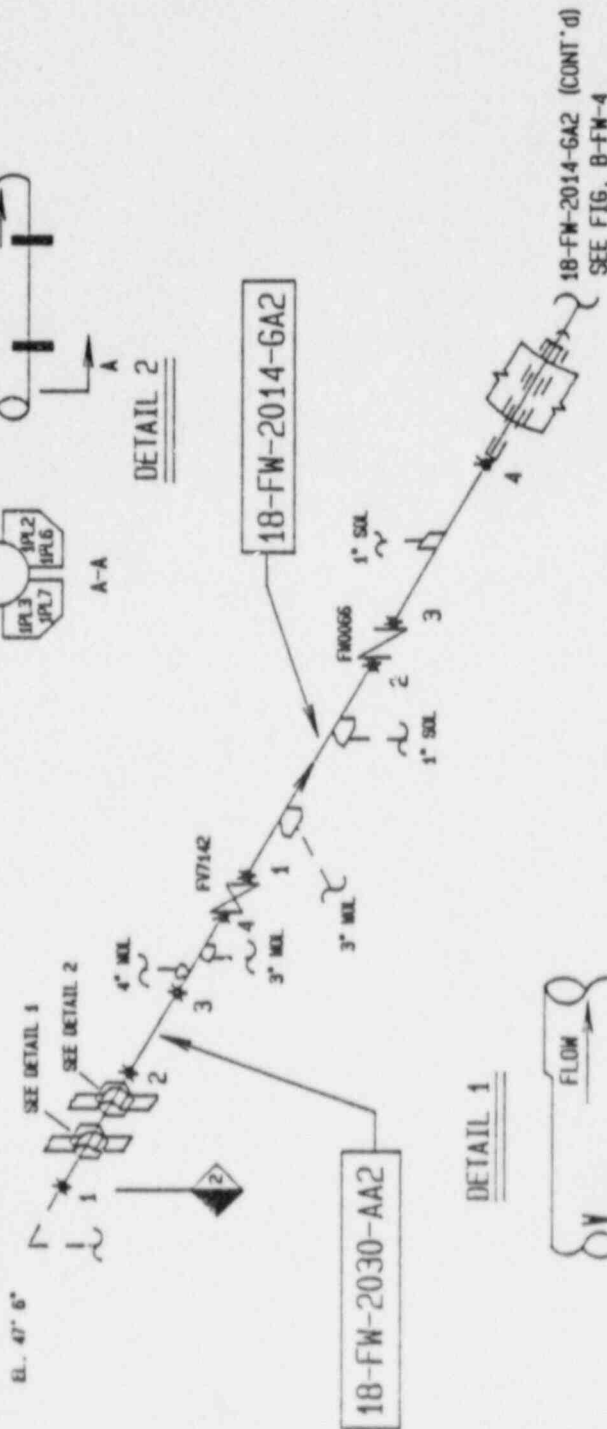
SYSTEM	FEEDWATER	
LINE	18-FW-2012-GA2	16-FW-2012-GA2
NOM. THK. /SCH	0.938/80	0.844/80
MATERIAL	SA-333	SA-333
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-3	CS-15
KEY:	● SHOP WELD	✕ FIELD WELD

NO.	REVISION	ENG	CKR	DATE
1	ISSUED TO FCR 3064	RAF	CAF	3/24/87
0	PFW433 SHT. 01, REV. 5	ML	CAM	4/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-FW-2	REV.	1	
AREA				
P&ID	9F00062			
SYSTEM ISO (S)	2C369PFW433 SHT. 01			



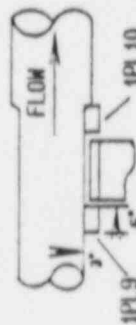
SOUTHWEST RESEARCH INSTITUTE

EL. 47' 6"



DETAIL 2

DETAIL 1



1/2" X 3" X 6" PL  
(NO EXAM REQ'D PER ASME SECT. XI)

NOTES:

1. OTHER MATERIALS
- FITTINGS (A-234 2" < DIA. < 10"
- SA-420 10" < DIA.
- FLANGES SA-350

SYSTEM	FEEDWATER	
LINE	18-FW-2014-GA2	18-FW-2030-AA2
NOM. THK./SCH	0.938/80	1.375/120
MATERIAL	SA-333	SA-333
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-3	CS-4
KEY: ● SHOP WELD	✕ FIELD WELD	

NO.	REVISION	ENG	CHKR	DATE
1	ISSUED PER WALKDOWN	ML	CAM	4/87
0	PFM633 SHIT. 03 REV. 7	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE	B-FW-3	REV. 1
AREA		
P&ID	9F00062 & 9F00063	
SYSTEM ISO (S)	26369PFM633	SHIT. 03



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18-FW-2014-GA2 (CONT'D)  
SEE FIG. B-FW-3

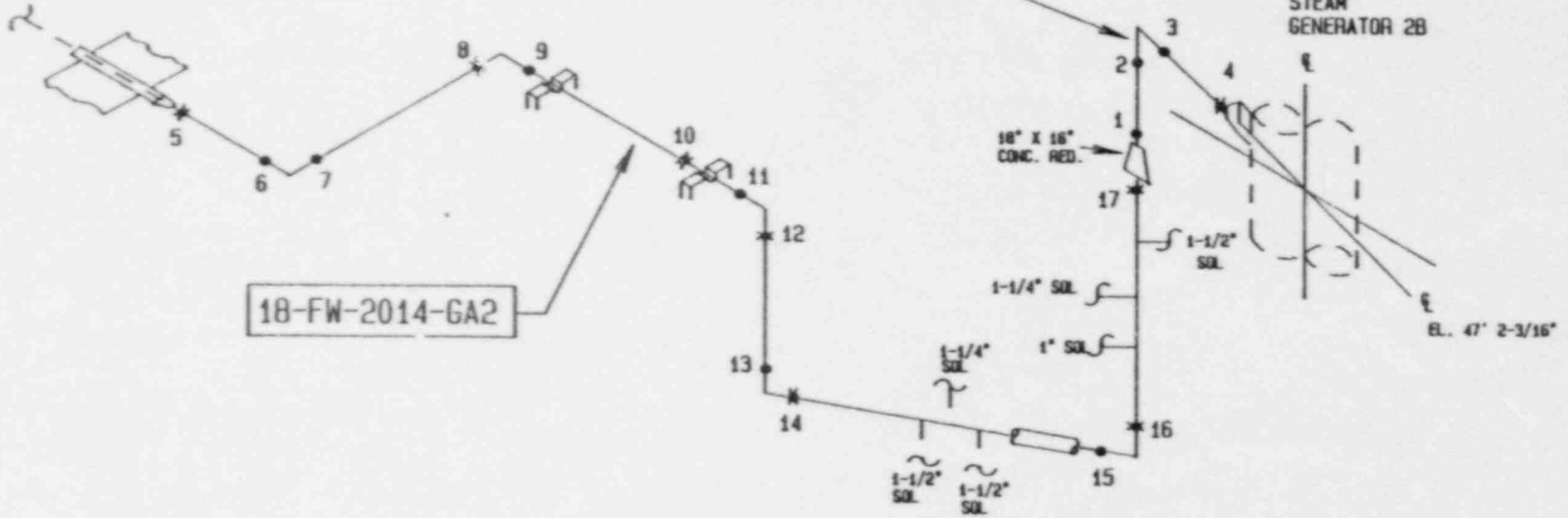
16-FW-2014-GA2

18-FW-2014-GA2

NOTES:

- 1. OTHER MATERIALS
- FITTINGS SA-234 2" < DIA. < 10"
- SA-420 10" < DIA.
- FLANGES SA-350

STEAM GENERATOR 2B



G-27

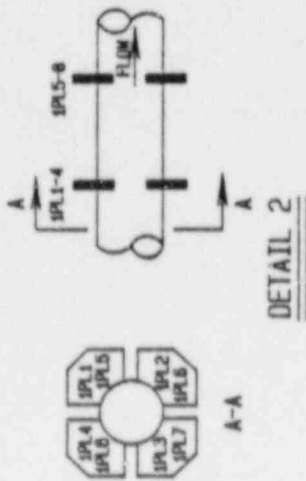
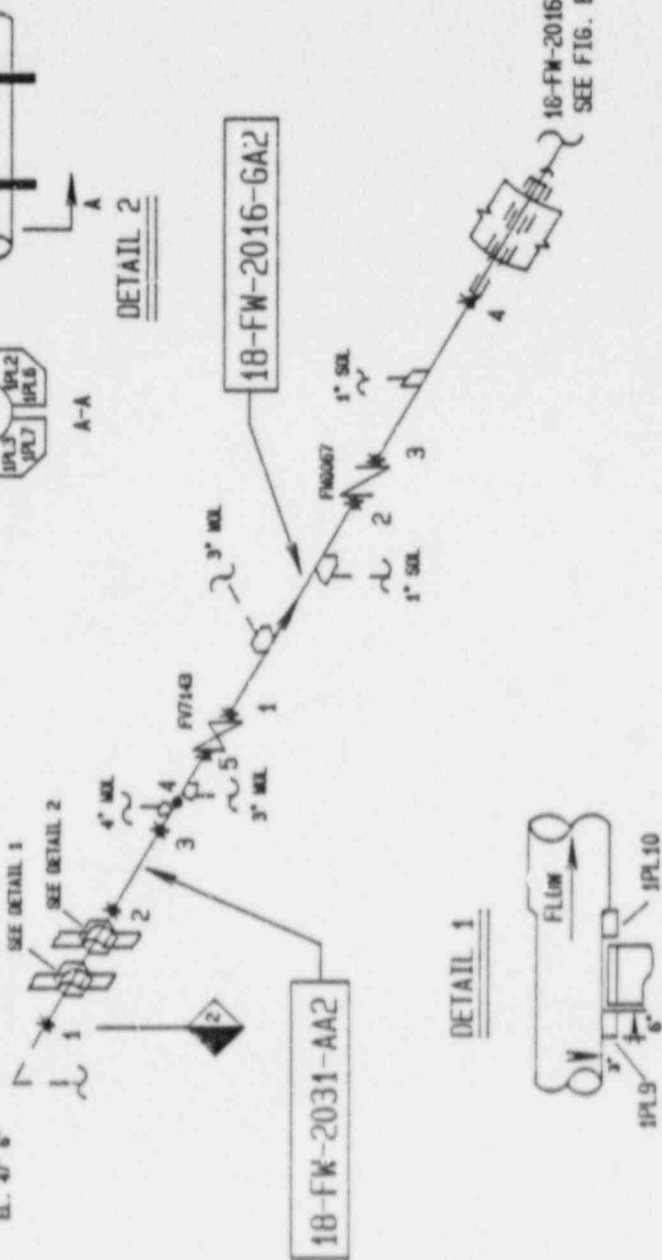
SYSTEM	FEEDWATER	
LINE	18-FW-2014-GA2	16-FW-2014-GA2
NOM. THK./SCH.	0.938/80	0.844/80
MATERIAL	SA-333	SA-333
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-3	CS-15
KEY:	• SHOP WELD	✱ FIELD WELD

0	PFW433 SHT. 01, REV. 5			
NO.	REVISION	ENG	CKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-FW-4	REV.	0	
AREA				
P&ID	9F0062			
SYSTEM ISO (S)	2C369PFW433 SHT. 01			

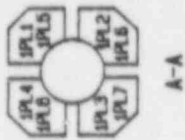


SOUTHWEST RESEARCH INSTITUTE

EL. 47' 6"



DETAIL 2



A-A

DETAIL 1



1/2" X 3" X 6" PL  
 AND EXAM REQ'D PER ASME SECT. XII)

NOTES:

- OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. < 10"  
 SA-420 10" < DIA.  
 FLANGES SA-350

NO.	REVISION	ENG	CHKR	DATE
1	ISSUED PER WALKDOWN	ML	CAM	4/87
0	PFM633 SHIT. 04 REV. 6	ML	CAM	4/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE		REV. 1		
AREA		B-FW-5		
PGID		9F00062 & 9F00063		
SYSTEM ISO (S)		26369PFM633 SHIT. 04		

SYSTEM	FEEDWATER	18-FW-2031-AA2
LINE	18-FW-2016-6A2	1.375/120
NOM. THK. /SCH.	0.938/80	SA-333
MATERIAL	SA-333	VOL./SU.
INSP. METHOD	VOL./SU.	CS-4
CAL. BLOCK	CS-3	FIELD WELD

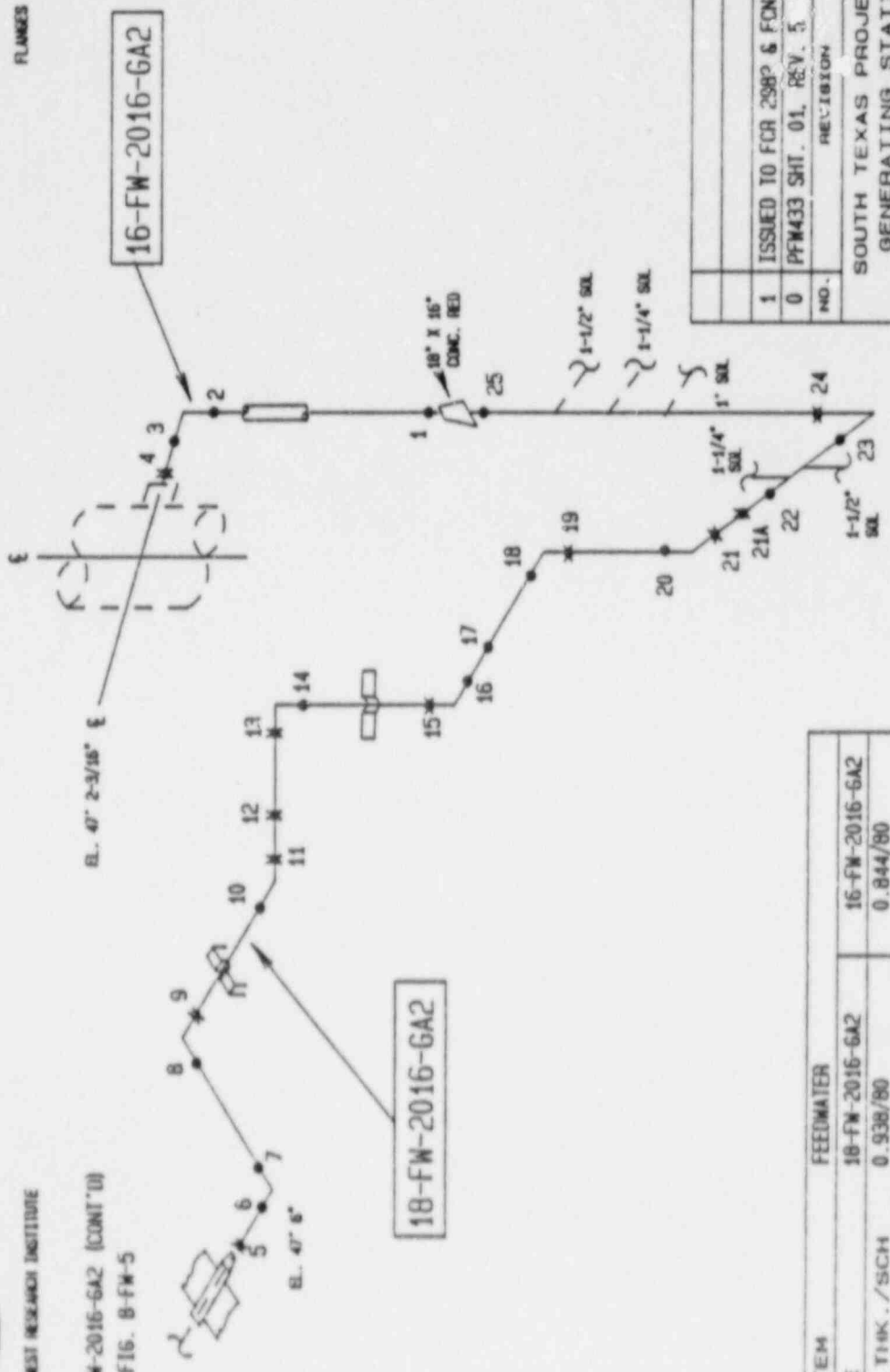


SARINVEST RESEARCH INSTITUTE

18-FW-2016-6A2 (CONT'D)  
SEE FIG. B-FW-5

NOTES:  
1. OTHER MATERIALS  
FITTINGS SA-234 2" < O.D.L. < 10"  
SA-420 10" < O.D.L.  
FLANGES SA-350

STEAM GENERATOR 2C



SYSTEM	FEEDWATER	16-FW-2016-6A2
LINE	18-FW-2016-6A2	16-FW-2016-6A2
NOM. THK./SCH	0.938/80	0.844/80
MATERIAL	SA-333	SA-333
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-3	CS-15

KEY: \* SHOP WELD    X FIELD WELD

NO.	REVISION	ENG	CHKR	DATE
1	ISSUED TO FOR 298P & FCN 3423	ML	CAM	4/87
0	PPW433 SHT. 01, REV. 5			

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE B-FW-6 REV. 1

AREA

P&ID 9F00062

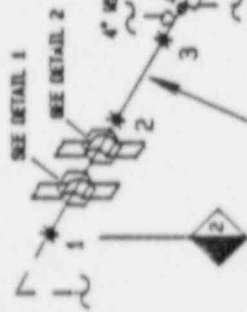
SYSTEM ISO (S) 2C369/PW433 SHT. 01





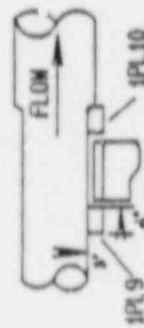
SOUTHWEST RESEARCH INSTITUTE

BL. 47' 6"



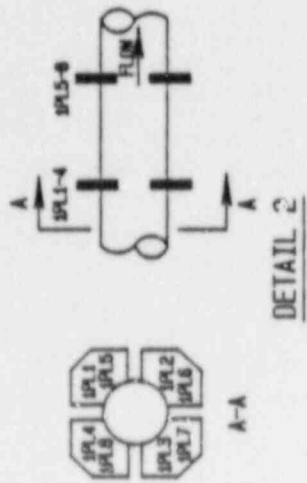
18-FW-2032-AA2

DETAIL 1



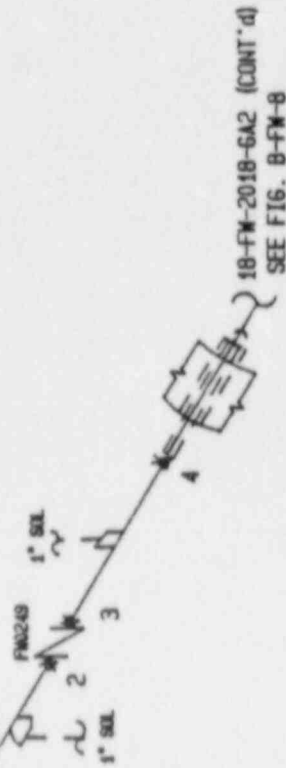
1/2" X 3" X 6" PL

(NO EXAM REQ'D PER ASME SECT. XII)



DETAIL 2

18-FW-2018-GA2



18-FW-2018-GA2 (CONT'D)  
SEE FIG. B-FW-8

NOTES

- OTHER MATERIALS  
FITTINGS SA-234 2" < DIA. < 18"  
SA-420 10" < DIA.  
FLANGES SA-350

SYSTEM	FEEDWATER	
LINE	18-FW-2018-GA2	18-FW-2032-AA2
NOM. THK./SCH.	0.938/80	1.375/120
MATERIAL	SA-333	SA-333
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-3	CS-4
KEY:	• SHOP WELD	✱ FIELD WELD

NO.	REVISION	ENGR	CHKR	DATE
1	ISSUED PER MAINTENANCE			4/87
0	PPM... 01 REV.	ML	CAM	4/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-FW-7	REV.	1	
AREA				
P&ID	9F00062 & 9F00063			
SYSTEM ISO (S)	26369PFWE33 SH. 01			



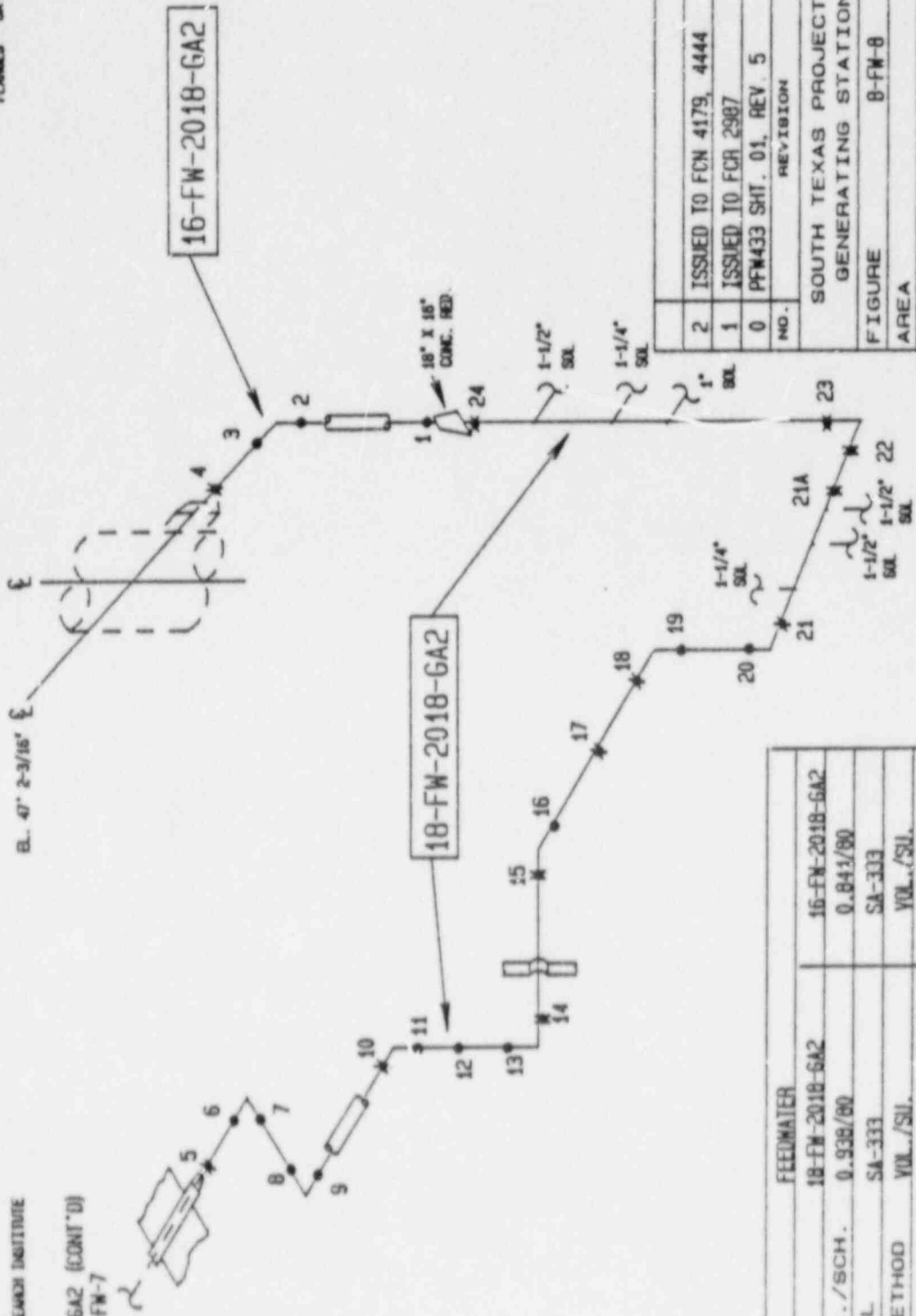
SOUTHWEST RESEARCH INSTITUTE

18-FW-2018-6A2 (CONT'D)  
SEE FIG. B-FW-7

**NOTES:**

- OTHER MATERIALS  
 1. FITTINGS SA-234 2" < DIA. < 10"  
 SA-430 10" < DIA.  
 FLANGES SA-350

STEAM GENERATOR 20



SYSTEM	FEEDWATER	
LINE	18-FW-2018-6A2	16-FW-2018-6A2
NOM. THK./SCH.	0.938/80	0.843/80
MATERIAL	SA-333	SA-333
INSP. METHOD	WVL./SI.	WVL./SI.
CAL. BLOCK	CS-3	CS-15
KEY:	● SHOP WELD	⊠ FIELD WELD

NO.	REVISION	ENG	CHKR	DATE
2	ISSUED TO FCN 4179, 4444	ML	-	7/87
1	ISSUED TO FCR 2987	ML	CAM	4/87
0	PFM433 SHT. 01, REV. 5	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

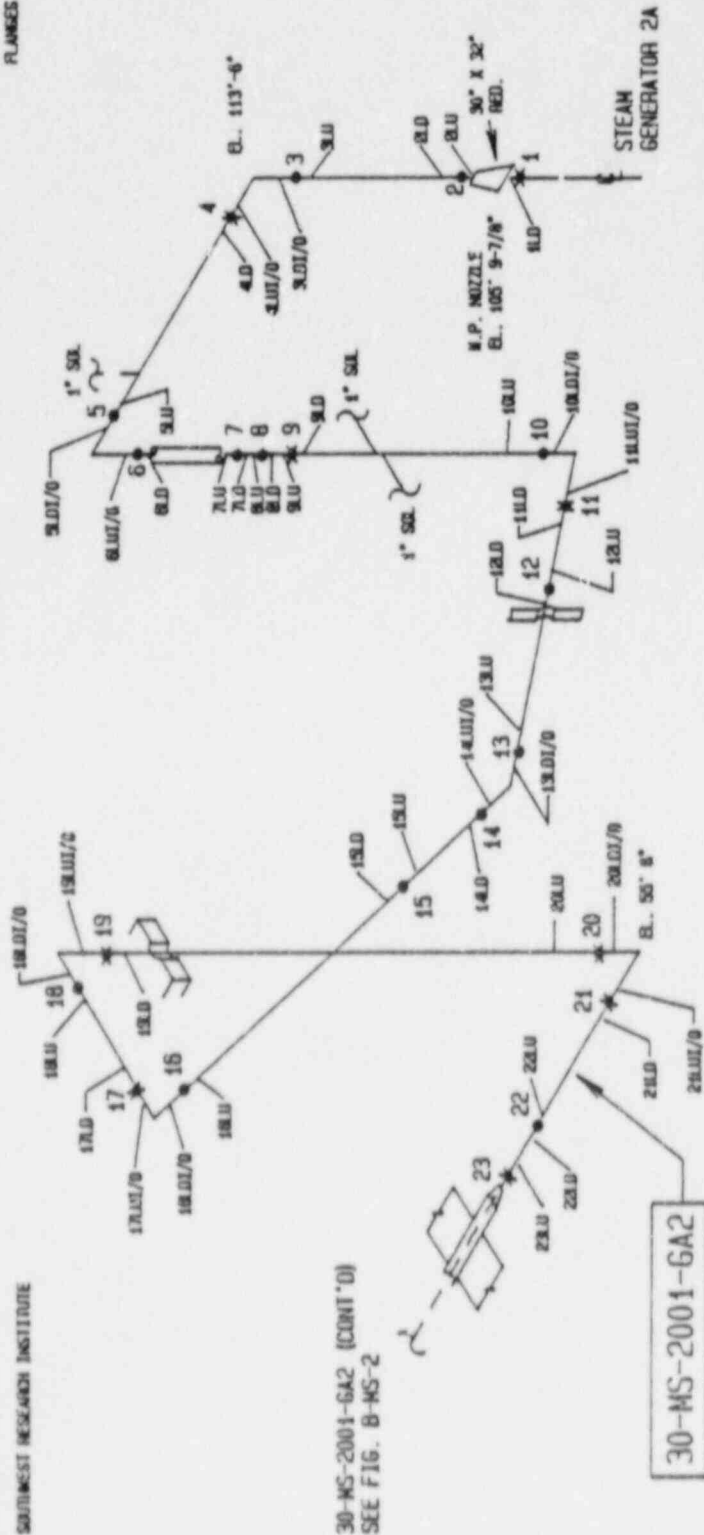
FIGURE	8-FW-8	REV.	2
AREA			
P&ID	9F00062		
SYSTEM ISO (S)	2C369PFM433 SHT. 01		



SOUTHWEST RESEARCH INSTITUTE

NOTES:

- 1. OTHER MATERIALS
- FITTINGS SA-234 2" < DIA. ≤ 10"
- SA-400 10" < DIA.
- FLANGES SA-350



30-MS-2001-6A2 (CONT'D)  
SEE FIG. B-MS-2

30-MS-2001-6A2

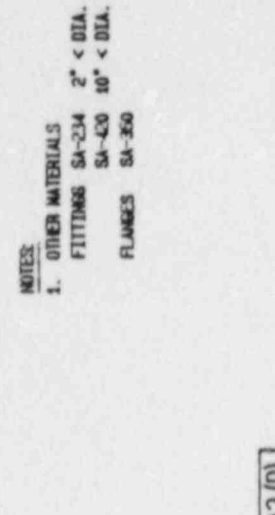
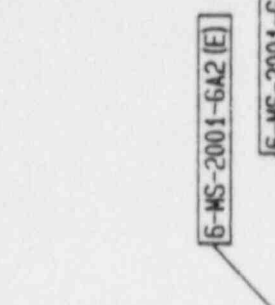
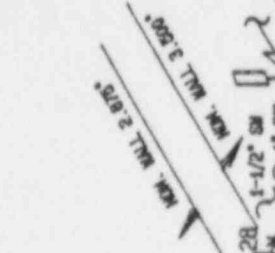
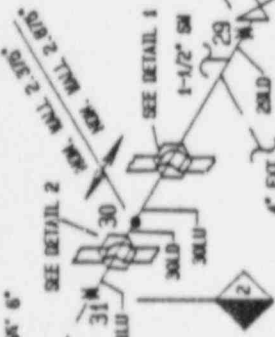
NO.	0	REV.	4	DATE	1/5/82
REVISION					
PMS466 SHT. 01, REV. 4					
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2					
FIGURE B-MS-1 REV. 0					
AREA					
PGID 9F00016					
SYSTEM ISO (S) 2C36SPMS446 SHT. 01					

SYSTEM	MAIN STEAM
LINE	30-MS-2001-6A2
NOM. THK. /SCH.	1.375
MATERIAL	SA-155
INSP. METHOD	VOL./SU.
CAL. BLOCK	CS-5 & CS-74
KEY:	● SHOP WELD    ✕ FIELD WELD

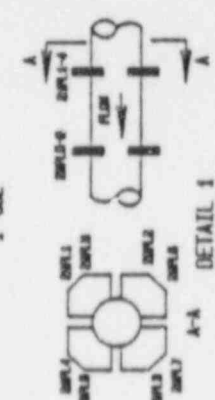
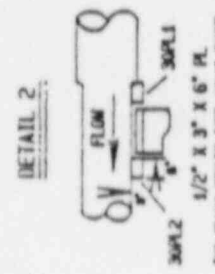
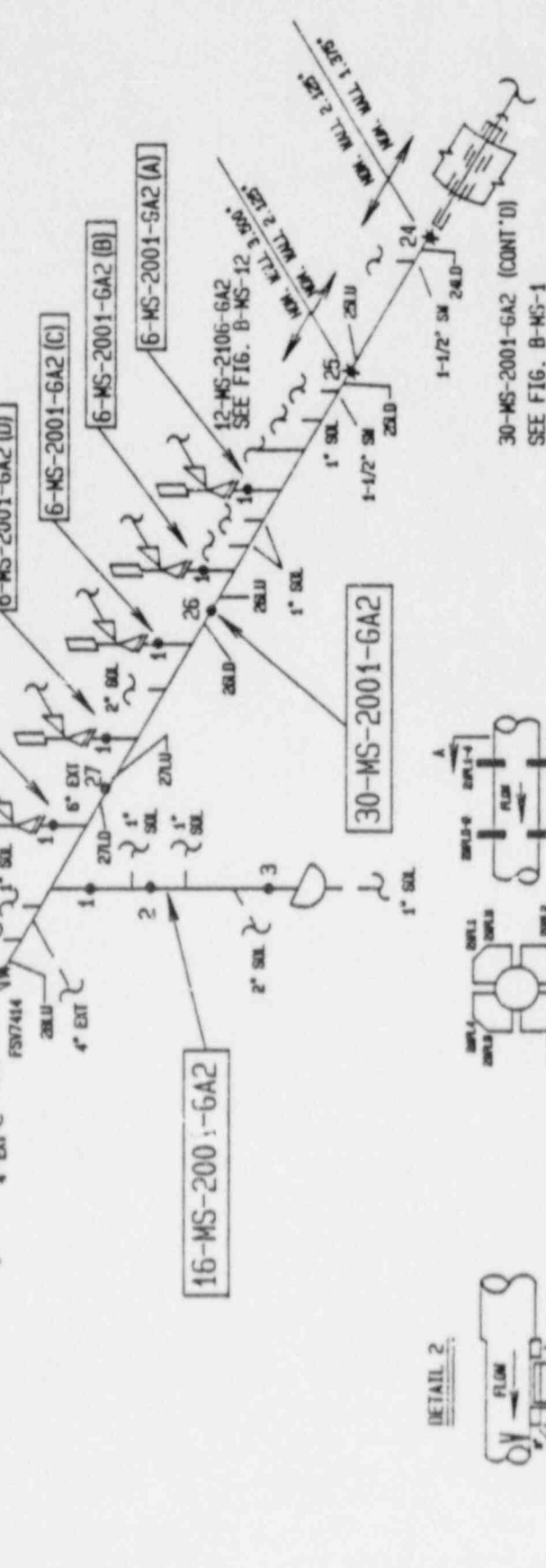


SOUTHWEST RESEARCH INSTITUTE

EL. 58' 6"



NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. < 10"  
 SA-420 10" < DIA.  
 FLANGES SA-350



NO.	REVISION	ENG	CHKR	DATE
1	PER WALKDOWN			
0	PMS646 SHT. 06, REV. 6	ML	CAM	4/87

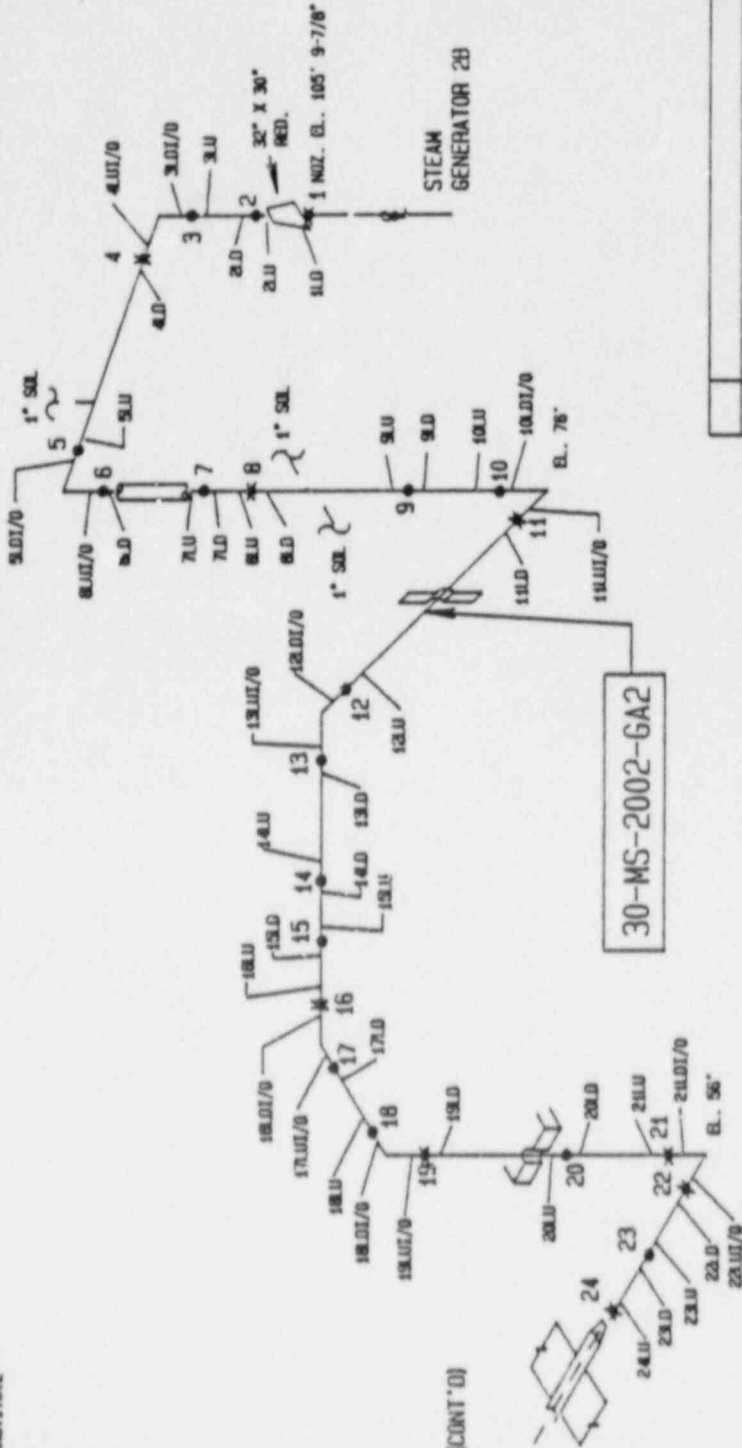
SYSTEM	MAIN STEAM			
LINE	30-MS-2001-6A2	16-MS-2001-6A2	6-MS-2001-6A2 (A, B, C, D, E)	
NOM. THK. /SCH.	2.125, 2.375, 2.875, 3.500	0.844/80	1.625	
MATERIAL	SA-155	SA-333	SA-350	
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.	
CAL. BLOCK	CS-5, -33, -34, -35	CS-15	CS-75	
KEY:	• SHOP WELD	✕ FIELD WELD		



SOUTHWEST RESEARCH INSTITUTE

NOTES:

- 1. OTHER MATERIALS
- FITTINGS SA-234 2" < O.D. < 10"
- SA-420 10" < O.D.
- FLANGES SA-350



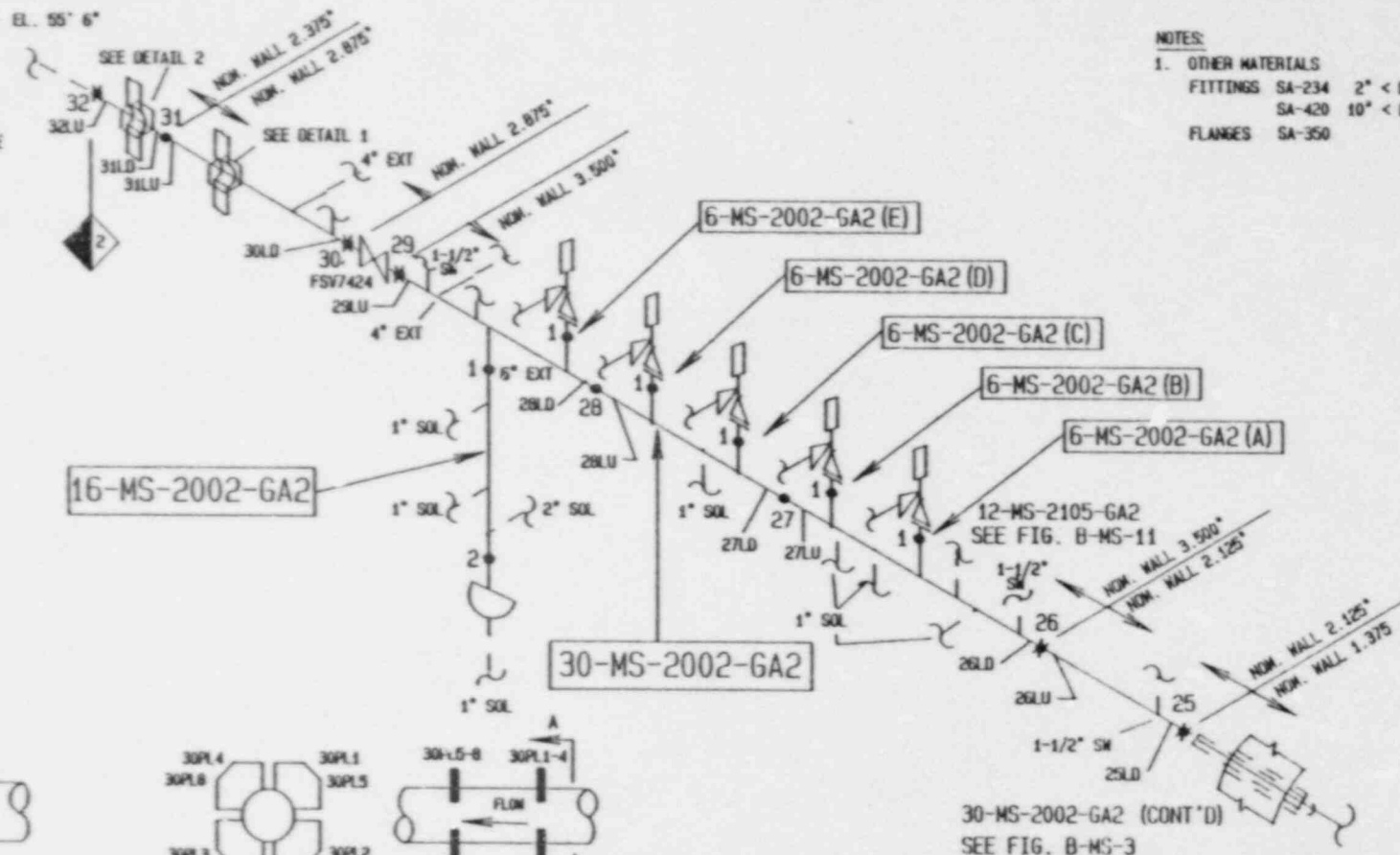
30-MS-2002-GA2 (CONT'D)  
SEE FIG. B-MS-4

NO.	0	PMS446 SHT. 02, REV. 6	REVISED	BY	CHKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2						
FIGURE		B-MS-3		REV. 0		
AREA		P&ID				
P&ID		9F00016				
SYSTEM ISO (S)		2C369PMS446 SHT. 02				

SYSTEM	MAIN STEAM
LINE	30-MS-2002-GA2
NOM. THK. /SCH.	1.375
MATERIAL	SA-155
INSP. METHOD	VOI./SU.
CAL. BLOCK	CS-5 & CS-74
KEY:	● SHOP WELD    ✕ FIELD WELD

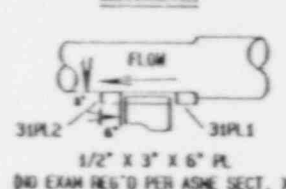


SOUTHWEST RESEARCH INSTITUTE

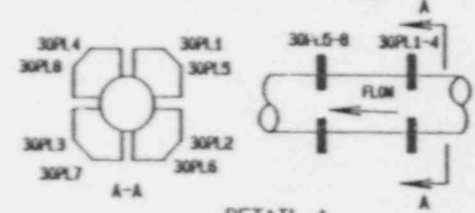


NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. < 10"  
 SA-420 10" < DIA.  
 FLANGES SA-350

DETAIL 2



DETAIL 1



NO.	REVISION	ENG	CKR	DATE
1	PER WALKDOWN	RA	COM	2/24/86
0	PMS646 SHT. 07, REV. 6	ML	CAM	4/87

SYSTEM	MAIN STEAM		
LINE	30-MS-2002-GA2	16-MS-2002-GA2	6-MS-2002-GA2 (A, B, C, D, E)
NOM. THK. /SCH.	2.125, 2.375, 2.875, 3.500	0.844/80	1.625
MATERIAL	SA-155	SA-333	SA-350
INSP. METHOD	VOL. / SU.	VOL. / SU.	VOL. / SU.
CAL. BLOCK	CS-5, -33, -34, -35	CS-15	CS-75
KEY:	• SHOP WELD	✱ FIELD WELD	

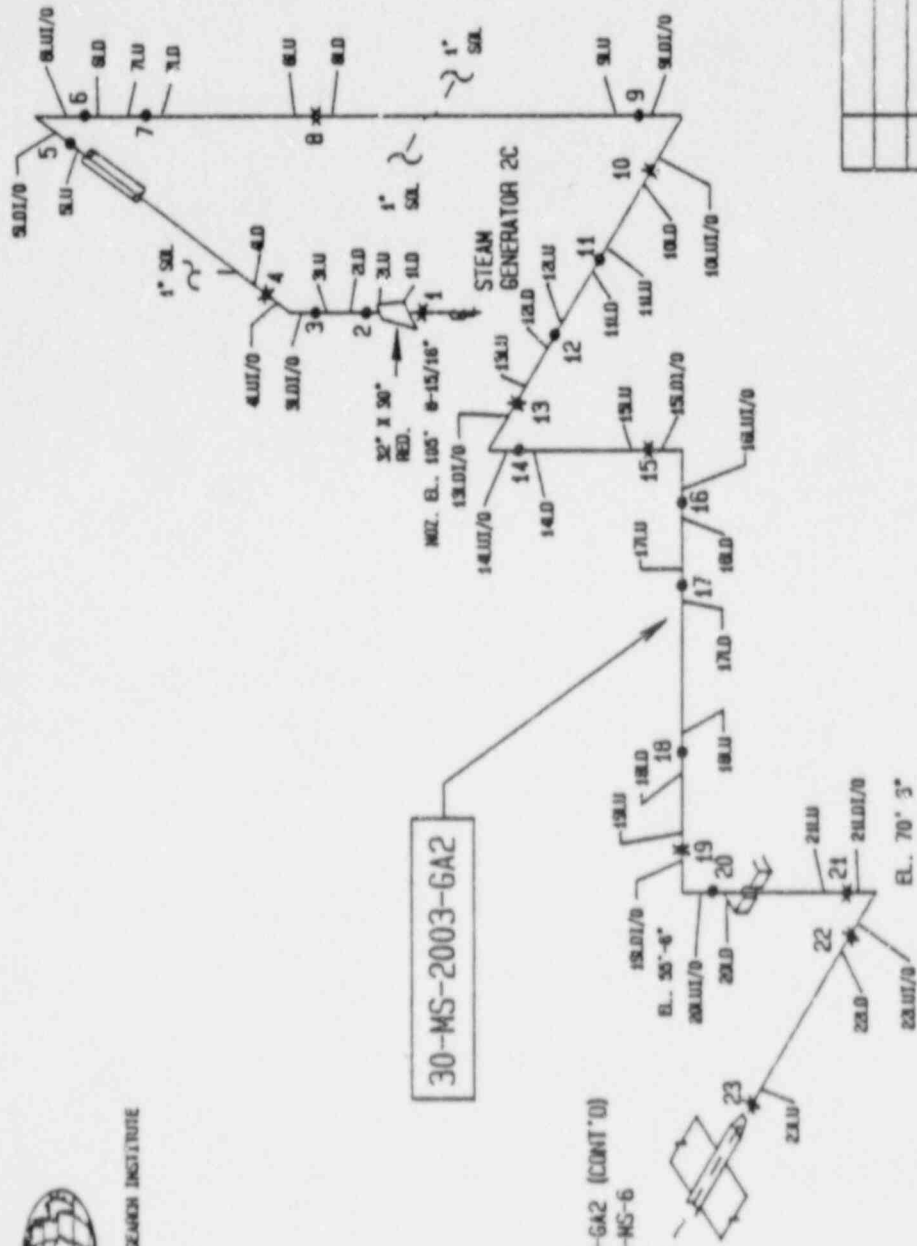
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	B-MS-4 REV. 1
AREA	
P&ID	9F00016
SYSTEM ISO (S)	26369PMS646 SHT. 07

G-35



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NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. < 10"  
 SA-20 10" < DIA.  
 FLANGES SA-350



30-MS-2003-GA2 (CONT'D)  
 SEE FIG. B-MS-6



SYSTEM	MAIN STEAM
LINE	30-MS-2003-GA2
NOM. THK./SCH.	1.375
MATERIAL	SA-155
INSP. METHOD	WIL./SU.
CAL. BLOCK	CS-5 & CS-74
KEY: *	SHOP WELD    X FIELD WELD

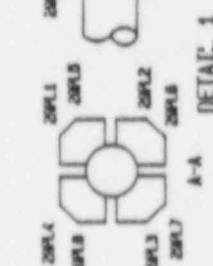
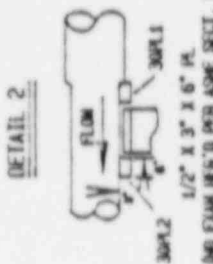
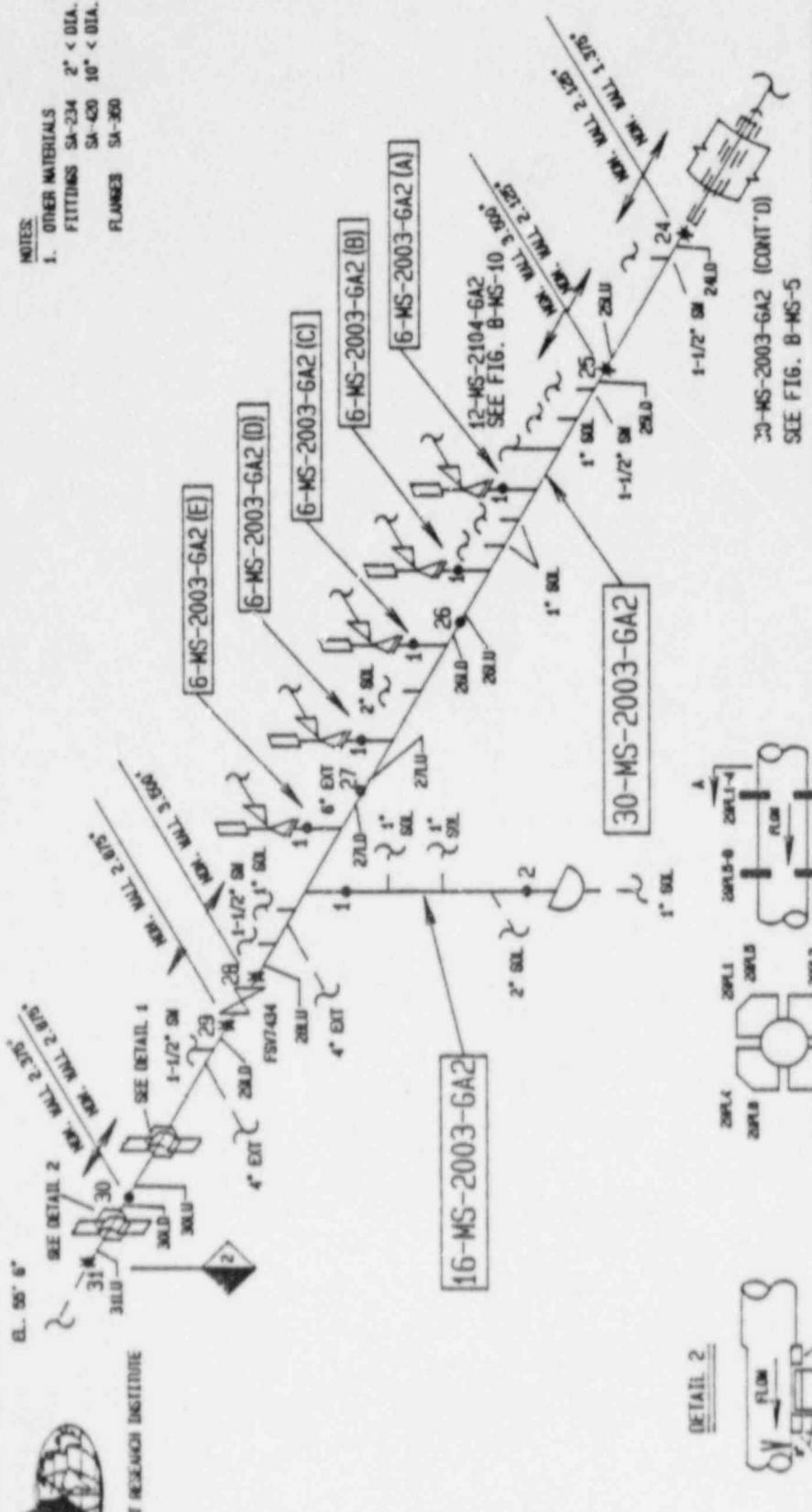
NO.	0	PMS446 SHIT. 03, REV. 4	12/15/83
REVISION			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	B-MS-5	REV.	0
AREA			
P&ID	9F00016		
SYSTEM ISO (S)	2C369PMS446 SHIT. 03		



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EL. 55' 6"

- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. < 16"  
 SA-420 16" < DIA.  
 FLANGES SA-350



NO.	REVISION	ENG	CHKR	DATE
0	PMS646 SHIT. 08, REV. 6	6/4/78		7/2/78

SYSTEM	MAIN STEAM	6-MS-2003-GA2 (A, B, C, D, E)
LINE	30-MS-2003-GA2	16-MS-2003-GA2
NOM. THK. /SCH.	2.125, 2.375, 2.875, 3.500	0.844/80
MATERIAL	SA-155	SA-333
INSP. METHOD	VOL./SI.	VOL./SU.
CAL. BLOCK	CS-5, -33, -34, -35	CS-15
KEY:	● SHOP WELD	✱ FIELD WELD

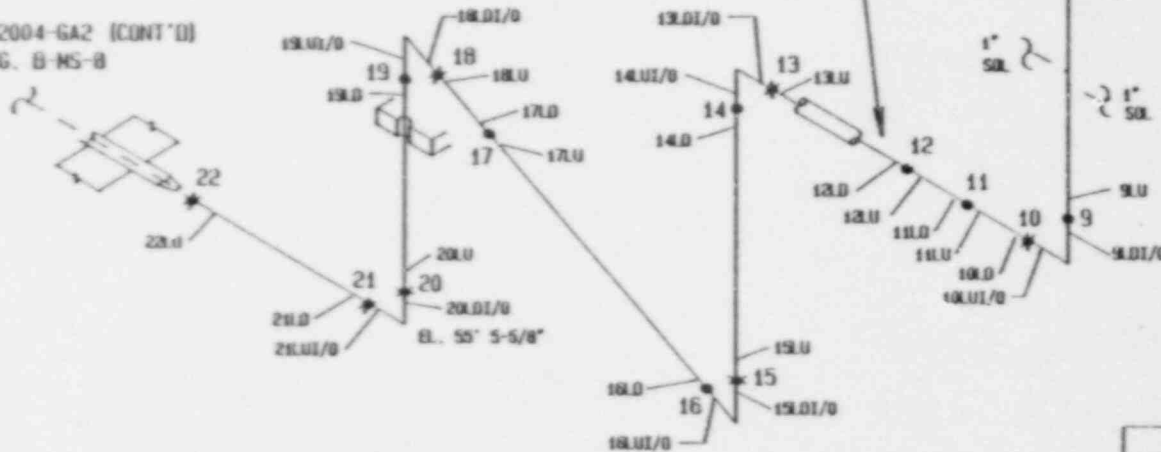




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- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. ≤ 10"  
 SA-420 10" < DIA.  
 FLANGES SA-350

30-MS-2004-GA2 (CONT'D)  
 SEE FIG. B-MS-8



STEAM GENERATOR 2D

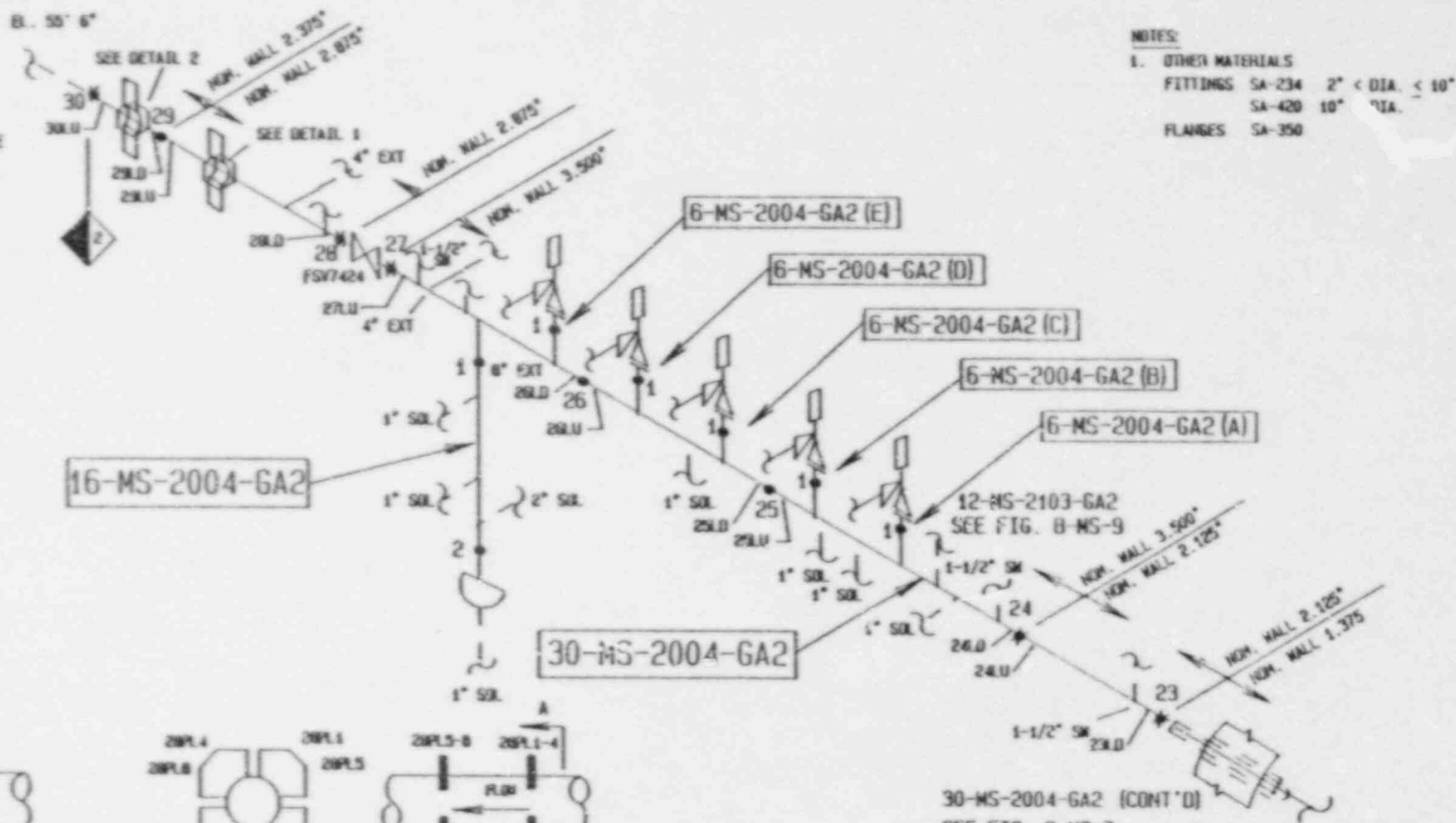
G-38

SYSTEM	MAIN STEAM
LINE	30-MS-2004-GA2
NOM. THK. /SCH.	1.375
MATERIAL	SA-155
INSP. METHOD	VDL./SIL
CAL. BLOCK	CS-5 & CS-74
KEY:	● SHOP WELD    ✕ FIELD WELD

0	PMS446 SHT. 04, REV. 5			
NO.	REVISION	ENG	CHK	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-MS-7	REV. 0		
AREA				
P&ID	9F00016			
SYSTEM ISO (S)	2C359PMS446 SHT. 04			

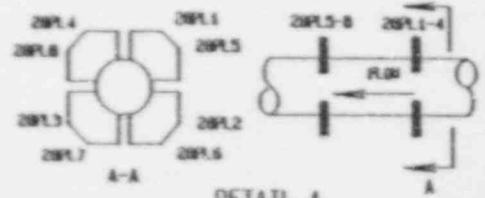
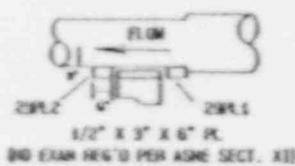


SOUTHWEST RESEARCH INSTITUTE



- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. ≤ 10"  
 SA-420 10" DIA.  
 FLANGES SA-350

DETAIL 2



DETAIL 1

30-MS-2004-GA2 (CONT'D)  
 SEE FIG. B-MS-7

0	PM5646 SHT. 09, REV. 6			
NO.	REVISION	ENG	CHK	DATE

SYSTEM	MAIN STEAM		
LINE	30-MS-2004-GA2	16-MS-2004-GA2	6-MS-2004-GA2 (A, B, C, D, E)
NOM. THK. /SCH.	2.125, 2.375, 2.875, 3.500	0.644/80	1.625
MATERIAL	SA-155	SA-333	SA-350
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-5, -33, -34, -35	CS-15	CS-75

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	B-MS-8 REV. 0
AREA	
P&ID	9F00016
SYSTEM ISO (S)	26369PM5646 SHT. 09

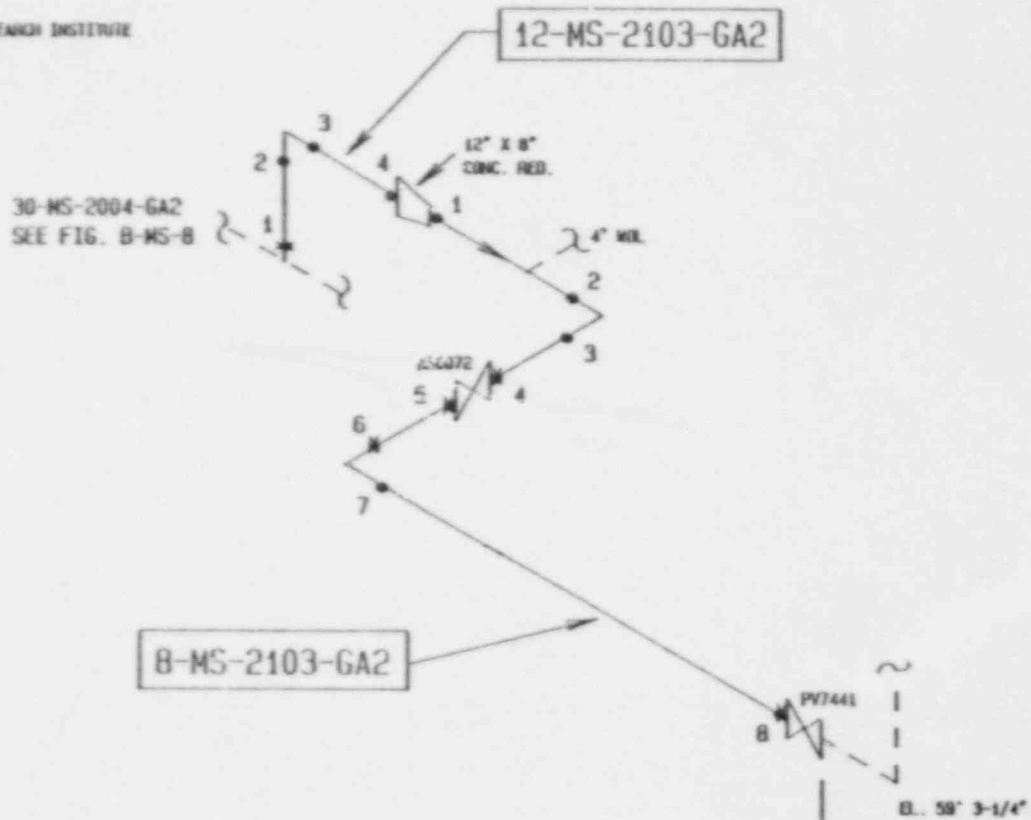
KEY: ● SHOP WELD    ✎ FIELD WELD

G-39



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NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. < 10"  
 SA-620 10" < DIA.  
 FLANGES SA-350



G-10

SYSTEM	MAIN STEAM	
LINE	12-MS-2103-GA2	B-MS-2103-GA2
NOM. THK. /SCH.	0.688/80	0.500/80
MATERIAL	SA-333	SA-106
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-14	CS-2
KEY:	● SHOP WELD	✱ FIELD WELD

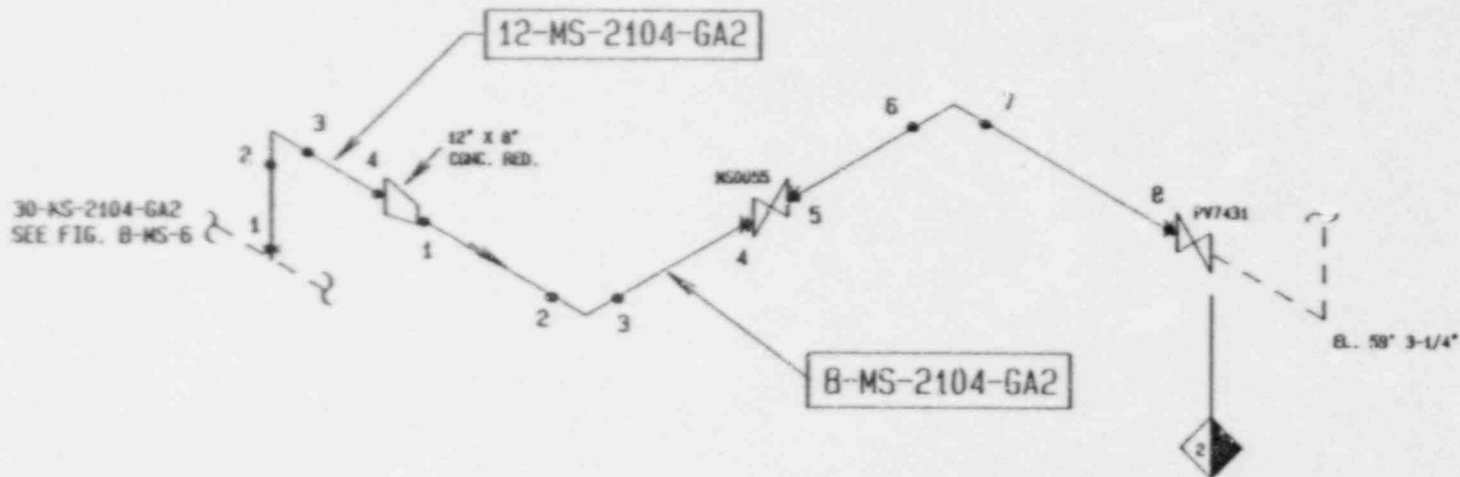
NO.	REVISION	ENG	CHKR	DATE
0	PMS646 SHIT. 04 REV. B			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-MS-9	REV.	0	
AREA				
P&ID	9F00016			
SYSTEM ISO (S)	5G369PMS646 SHIT. 04			



SOUTHWEST RESEARCH INSTITUTE

NOTES:

- 1. OTHER MATERIALS
- FITTINGS SA-234 2" < DIA. < 10"
- SA-420 10" < DIA.
- FLANGES SA-350



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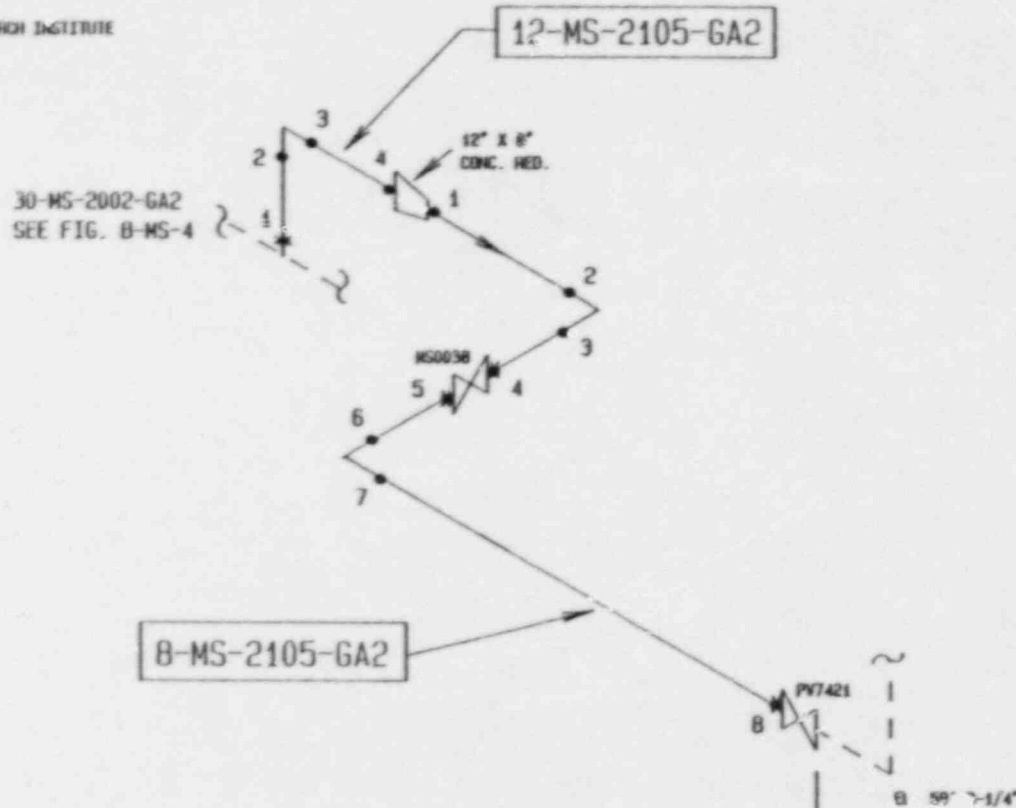
SYSTEM	MAIN STEAM	
LINE	12-MS-2104-GA2	B-MS-2104-GA2
NOM. THK. /SCH.	0.688/80	0.500/80
MATERIAL	SA-333	SA-106
INSP. METHOD	VOL. /SU.	VOL. /SU.
CAL. BLOCK	CS-14	CS-2
KEY: ● SHOP WELD    ✱ FIELD WELD		

NO.	REVISION	ENG	CHK	DATE
0	PMS646 SHT.01 REV. 7			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-MS-10	REV.	0	
AREA				
P&ID	9F00016			
SYSTEM ISO (S)	56369PMS646 SHT.01			



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- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-234 2" < DIA. < 10"  
 SA-420 10" < DIA.  
 FLANGES SA-350



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SYSTEM	MAIN STEAM	
LINE	12-MS-2105-GA2	6-MS-2105-GA2
NOM. THK / SCH.	0.688/80	0.500/80
MATERIAL	SA-333	SA-106
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-14	CS-2
KEY:	● SHOP WELD	✕ FIELD WELD

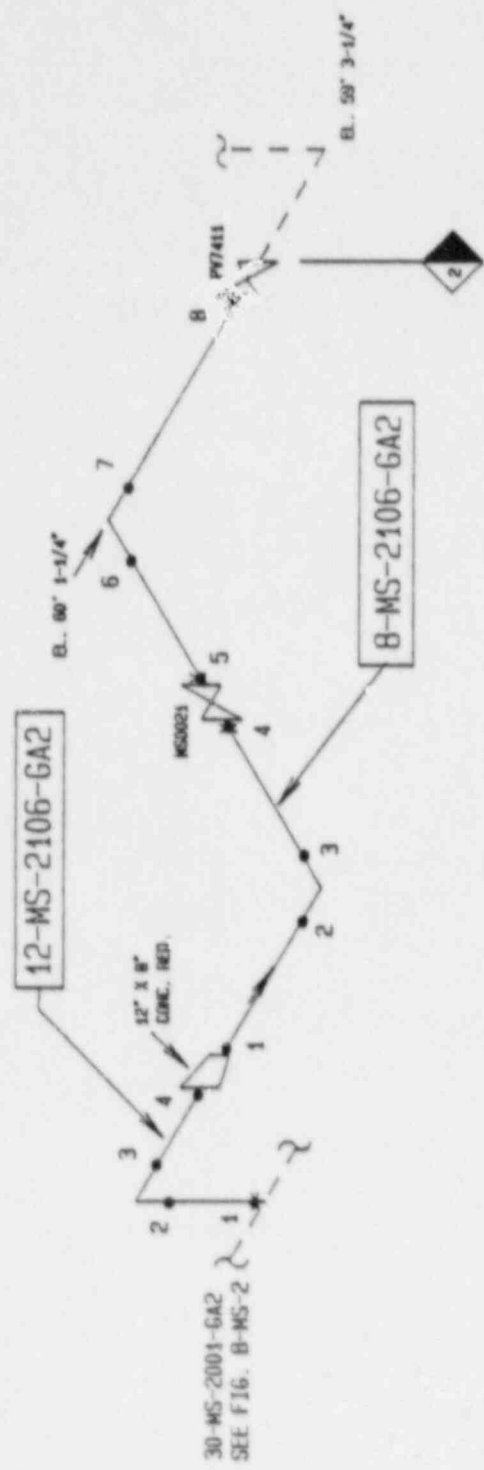
0	PMS646 SHT. 02 REV. 7	Cam	12/87
NO.	REVISION	ENG	CKR DAT
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	E-MS-11	REV.	0
AREA			
P&ID	9F00016		
SYSTEM ISO (S)	56369PMS646 SHT. 02		



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**NOTES**

- 1. OTHER MATERIALS
- FITTINGS SA-254 2" < DIA. < 10"
- SA-420 10" < DIA.
- FLANGES SA-250



30-MS-2001-GA2  
SEE FIG. B-MS-2

12-MS-2106-GA2

8-MS-2106-GA2

SYSTEM	MAIN STEAM	
LINE	12-MS-2106-GA2	8-MS-2106-GA2
NOM. THK. / SCH.	0.688/80	0.500/80
MATERIAL	SA-333	SA-106
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	CS-14	CS-2
KEY:	● SHOP WELD	✱ FIELD WELD

NO.	REVISION	ENG	CHKR	DATE
0	PM5646 SHT. C3 REV. 8			

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2  
FIGURE B-MS-12 REV. 0  
AREA  
P&ID 9F0016  
SYSTEM ISO (S) 56369PM5646 SHT. 02



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NOTES:

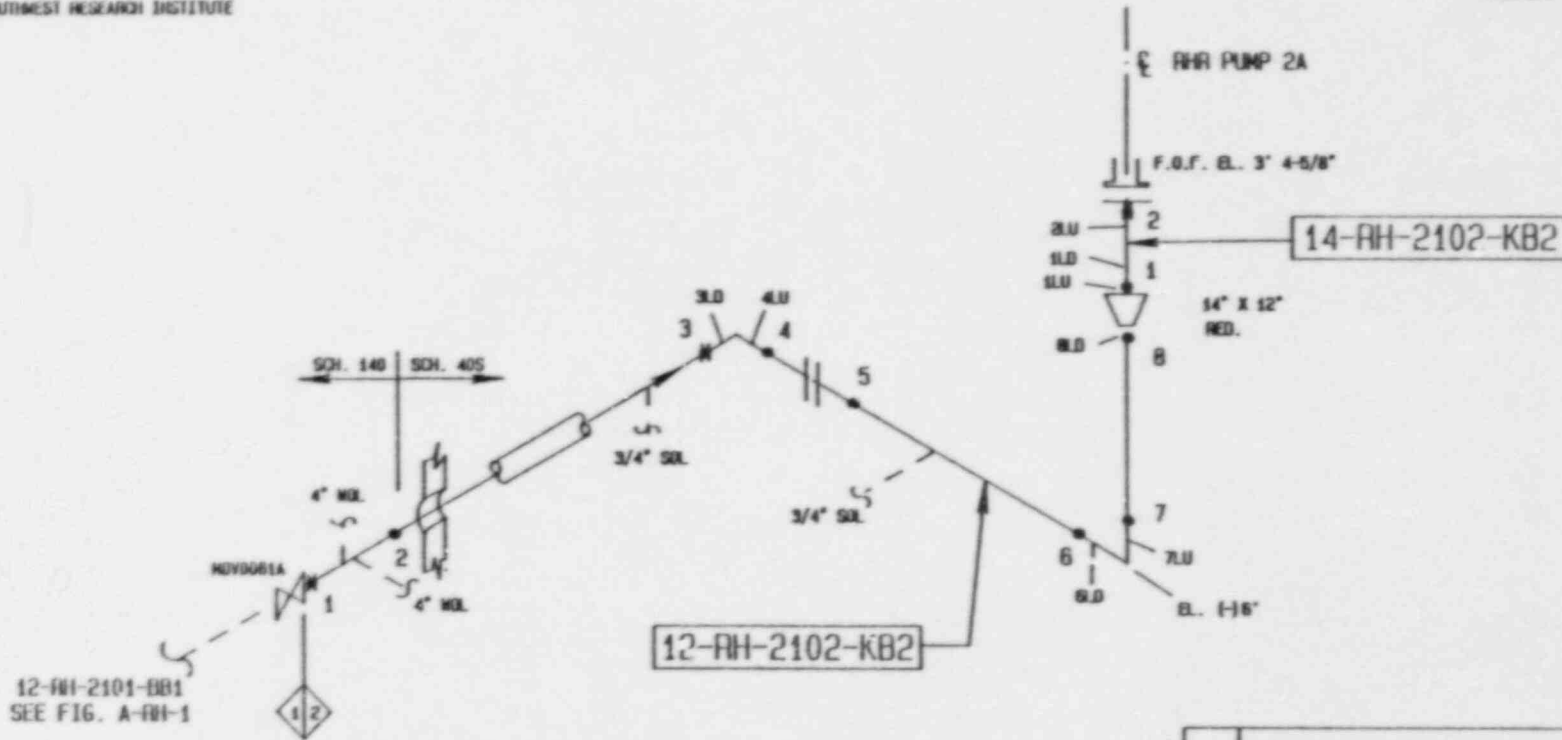
1. OTHER MATERIALS

FITTINGS SA-182 2" > DIA.

SA-403 2" < DIA.

FLANGES SA-182

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12-RH-2101-BB1  
SEE FIG. A-RH-1

NO.	REVISION	ENG	CHK	DATE
0	PRH459 SHT. 04, REV. 5			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	8-RH-1	REV. 0		
AREA				
P&ID	9F20000			
SYSTEM ISO (S)	4C369PRH459 SHT. 04			

SYSTEM	RESIDUAL HEAT REMOVAL	
LINE	14-RH-2102-KB2	12-RH-2102-KB2
NOM. THK. /SCH.	0.438/40S	0.375/40S & 1.125/40S
MATERIAL	SA-358	SA-312
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-29	SS-13 & SS-20
KEY:	• SHOP WELD	✕ FIELD WELD



SOUTHWEST RESEARCH INSTITUTE

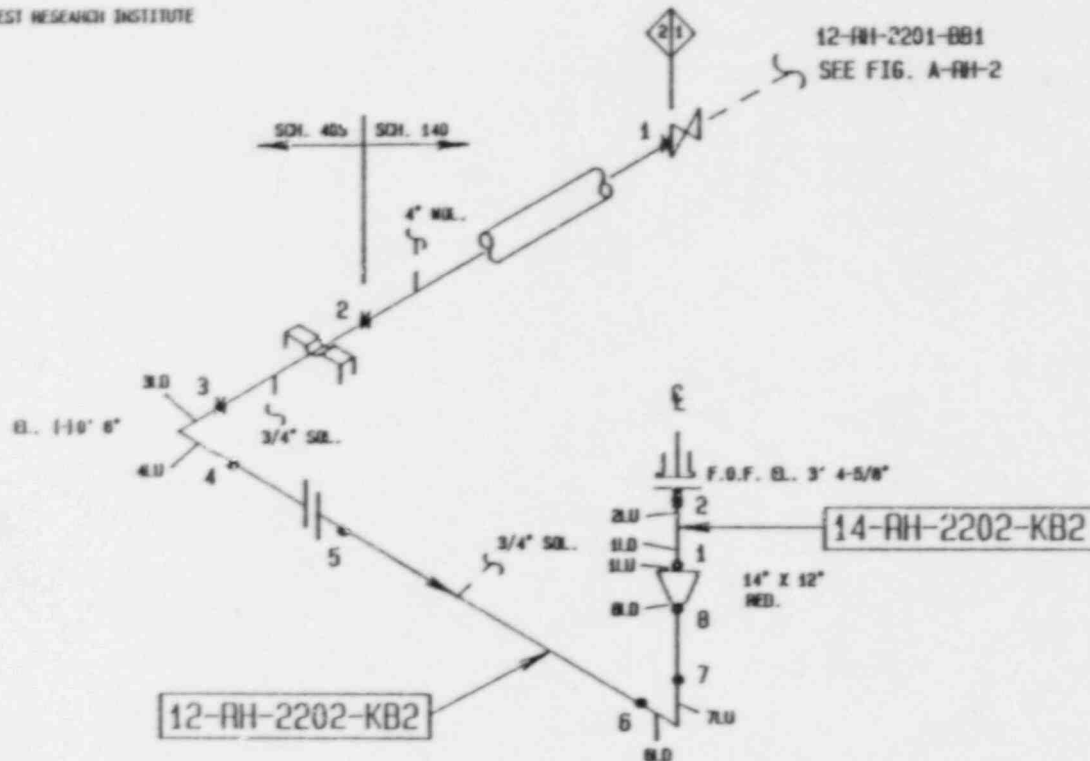
NOTES:

1. OTHER MATERIALS

FITTINGS SA-182 2" > DIA.

SA-403 2" < DIA.

FLANGES SA-182

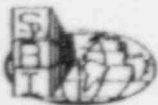


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SYSTEM	REGIONAL HEAT REMOVAL	
LINE	14-RH-2202-KB2	12-RH-2202-KB2
NOM. THK. / SCH.	0.438/40	0.375/40S & 1.125/140
MATERIAL	SA-358	SA-312
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-29	SS-13 & SS-20
KEY:	● SHOP WELD	✕ FIELD WELD

0	PRH459 SHT. 07, REV. 6			
NO.	REVISION	ENG	CHK	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-RH-2	REV.	0	
AREA				
P&ID	9F20000			
SYSTEM ISO (S)	4C369-RH459 SHT. 07			

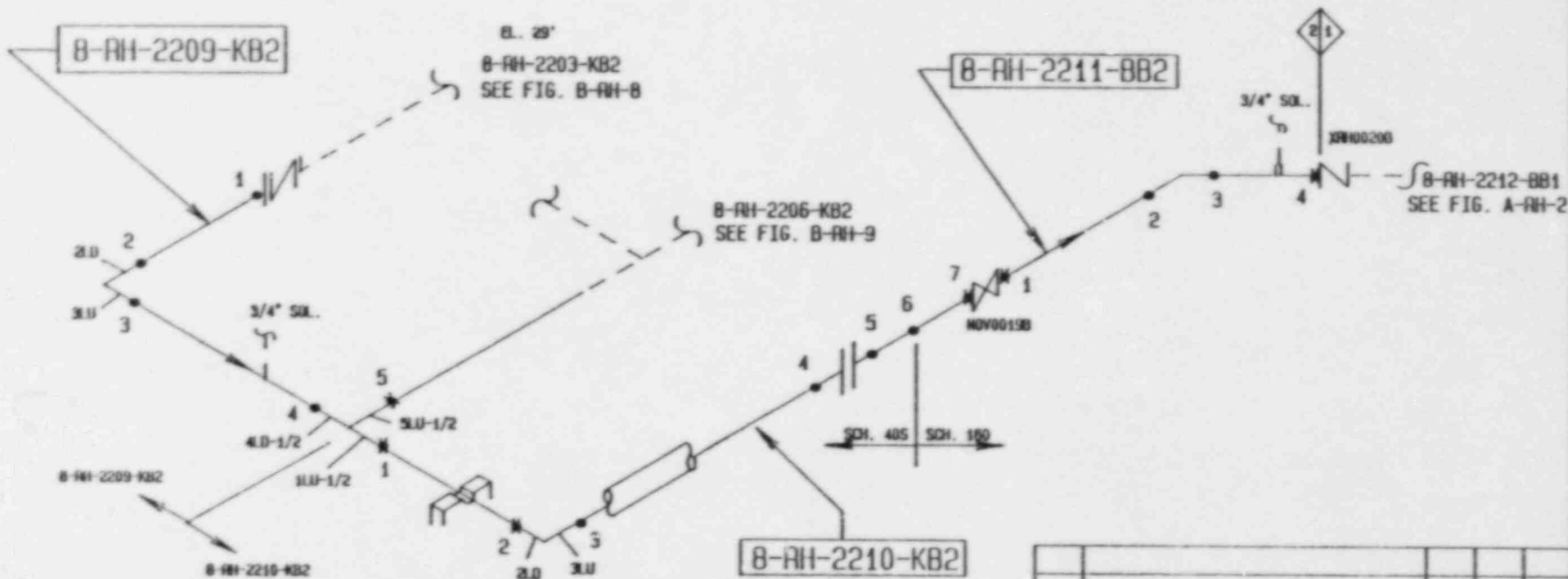




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NOTES:

- 1. OTHER MATERIALS
- FITTINGS SA-182 2" ≥ DIA.
- SA-403 2" < DIA.
- FLANGES SA-182



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SYSTEM	RESIDUAL HEAT REMOVAL		
LINE	B-FH-2209-KB2	B-FH-2210-KB2	B-FH-2211-BB2
NOM. THK. /SCH.	0.322/40S	0.322/40S & 0.906/160	0.906/160
MATERIAL	SA-312	SA-312	SA-376
INSP. METHOD	SU.	SU. & VOL./SU.	VOL./SU.
CAL. BLOCK	N/A	SS-10	SS-11
KEY:	● SHOP WELD	✕ FIELD WELD	

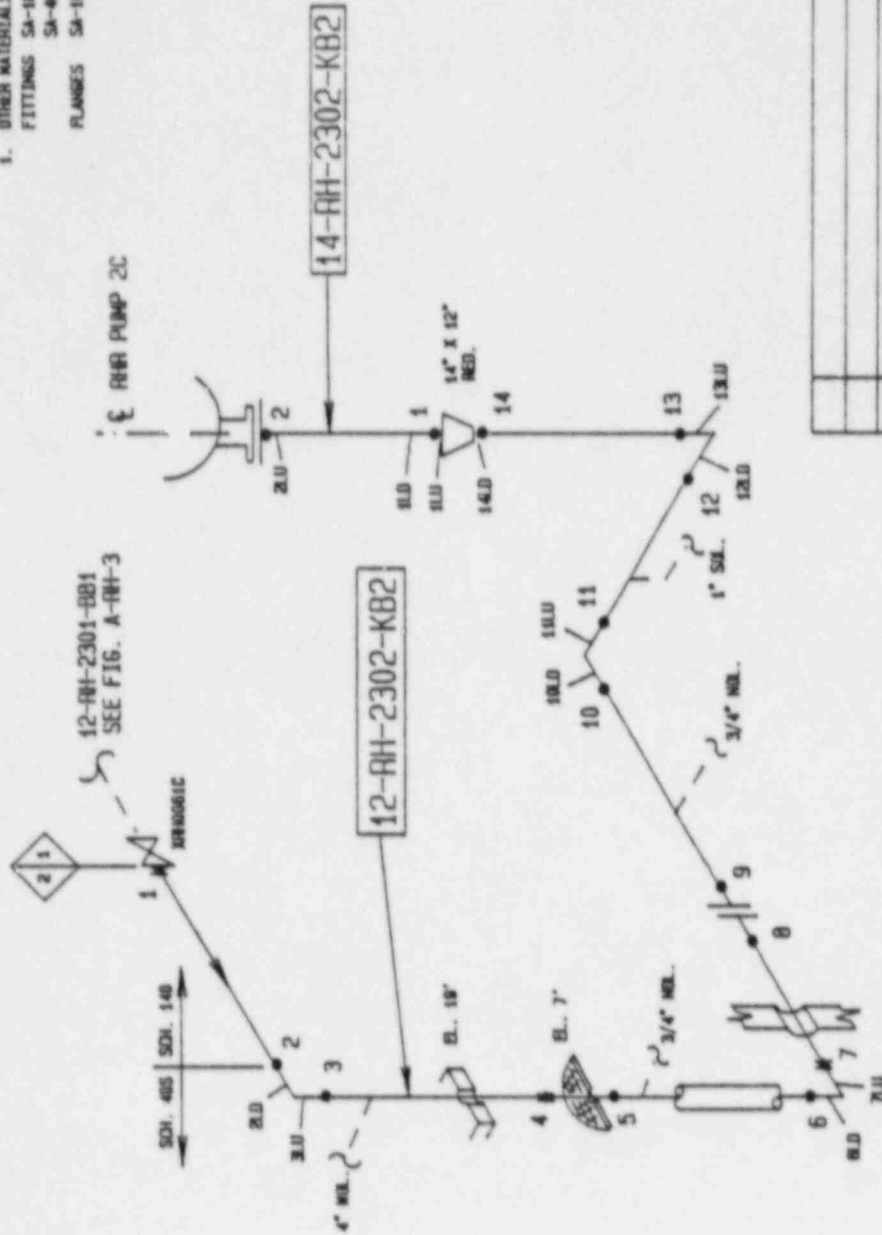
0	PRH459 SHT. 07, REV. 6			
NO.	REVISION	ENG	CHKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-FH-3	REV.	0	
AREA				
PSID	9F20000			
SYSTEM ISO (S)	4C369PRH459 SHT. 07			



SOUTHWEST RESEARCH INSTITUTE

**NOTES**

- OTHER MATERIALS
- FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.
- FLANGES SA-182



SYSTEM	RESIDUAL HEAT REMOVAL
LINE	14-RH-2302-KB2
NOM. THK. / SCH.	0.438 / 40
MATERIAL	SA J-6
INSP. METHOD	VOL. / SU.
CAL. BLOCK	SS-29
KEY:	● SHOP WELD    ✕ FIELD WELD

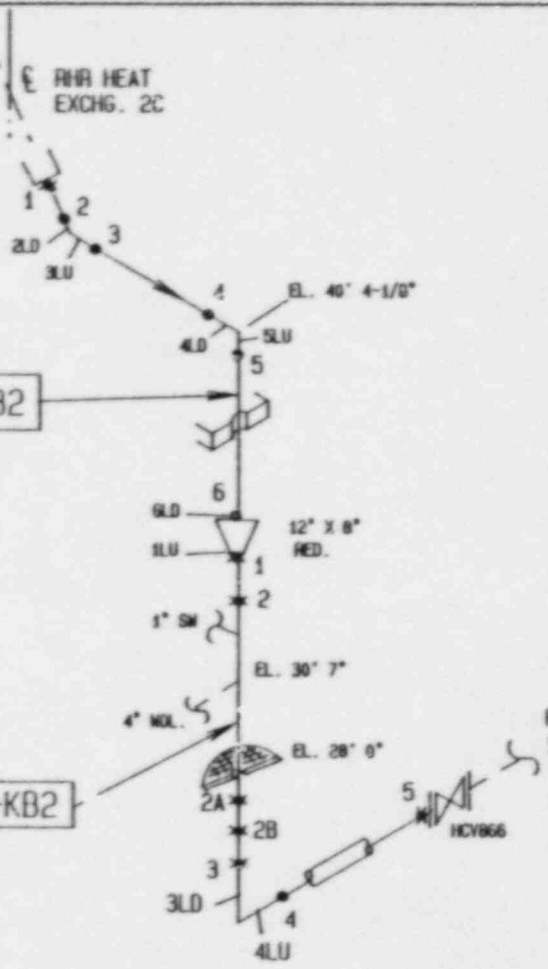
NO.	REVISION	ENG	CNR	DATE
0	PRH459 SHT. 01, REV. 7	AP	DM	7/25/82

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE	8-RH-4	REV.	0
AREA			
P&ID	9F20000		
SYSTEM ISO (S)	4C363PRH459	SHT.	01



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NOTES:

- 1. OTHER MATERIALS:
- FITTINGS SA-182 2" > DIA.
- SA-403 2" < DIA.
- FLANGES SA-192

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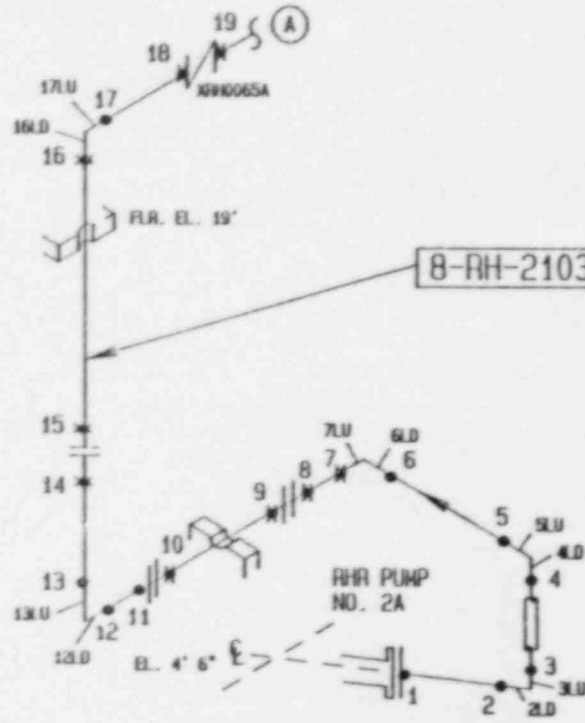
SYSTEM	RESIDUAL HEAT REMOVAL	
LINE	12-RH-2312-KB2	8-RH-2312-KB2
NOM. THK. /SCH.	0.375/40S	0.322/40S
MATERIAL	SA-312	SA-312
INSP. METHOD	VOL./SU.	SU.
CAL. BLOCK	SS-13	N/A
KEY:	● SHOP WELD	✱ FIELD WELD

1	FCN 2P-02617			
0	PRH459 SHT. 01, REV. 7	ML	CAM	4/87
NO.	REVISION	ENG	CKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	8-RH-5	REV.	1	
AREA				
P&ID	9F20000			
SYSTEM ISO (S)	4C369PRH459 SHT. 01			



SOUTHWEST RESEARCH INSTITUTE

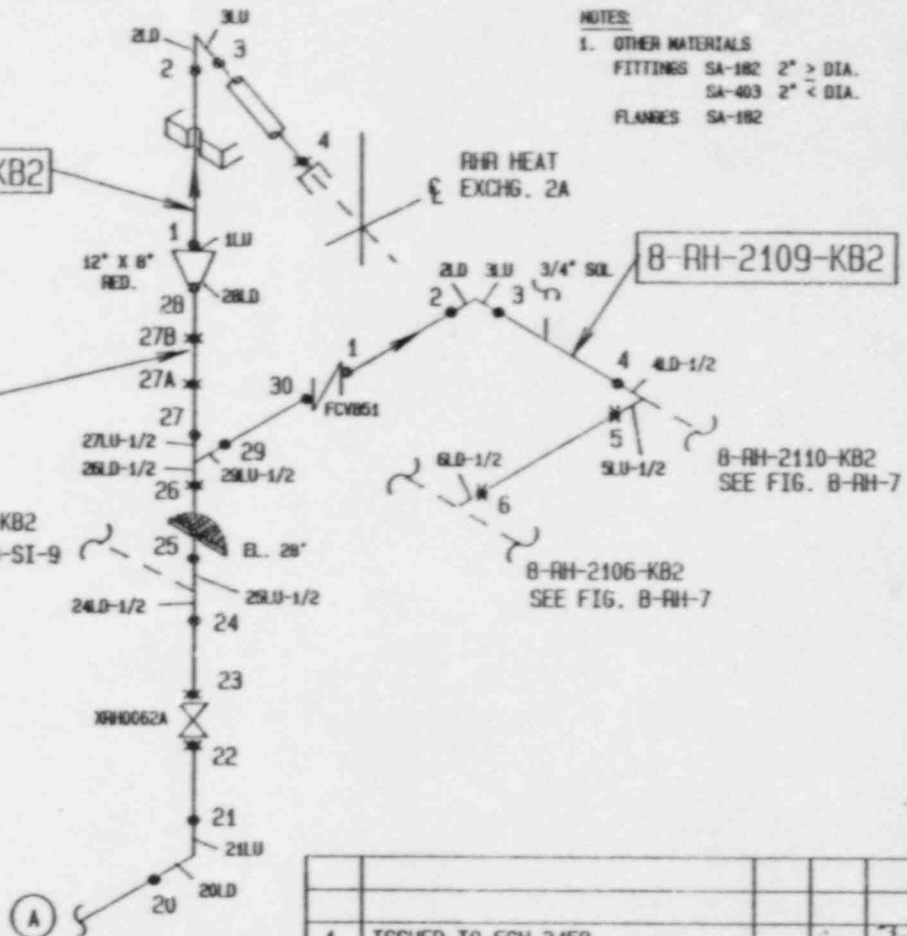
649



12-RH-2103-KB2

8-RH-2103-KB2

8-SI-2105-KB2  
SEE FIG. 8-SI-9



NOTES:

- 1. OTHER MATERIALS
- FITTINGS SA-182 2" > DIA.
- SA-403 2" < DIA.
- FLANGES SA-182

RHR HEAT EXCHG. 2A

8-RH-2109-KB2

8-RH-2110-KB2  
SEE FIG. 8-RH-7

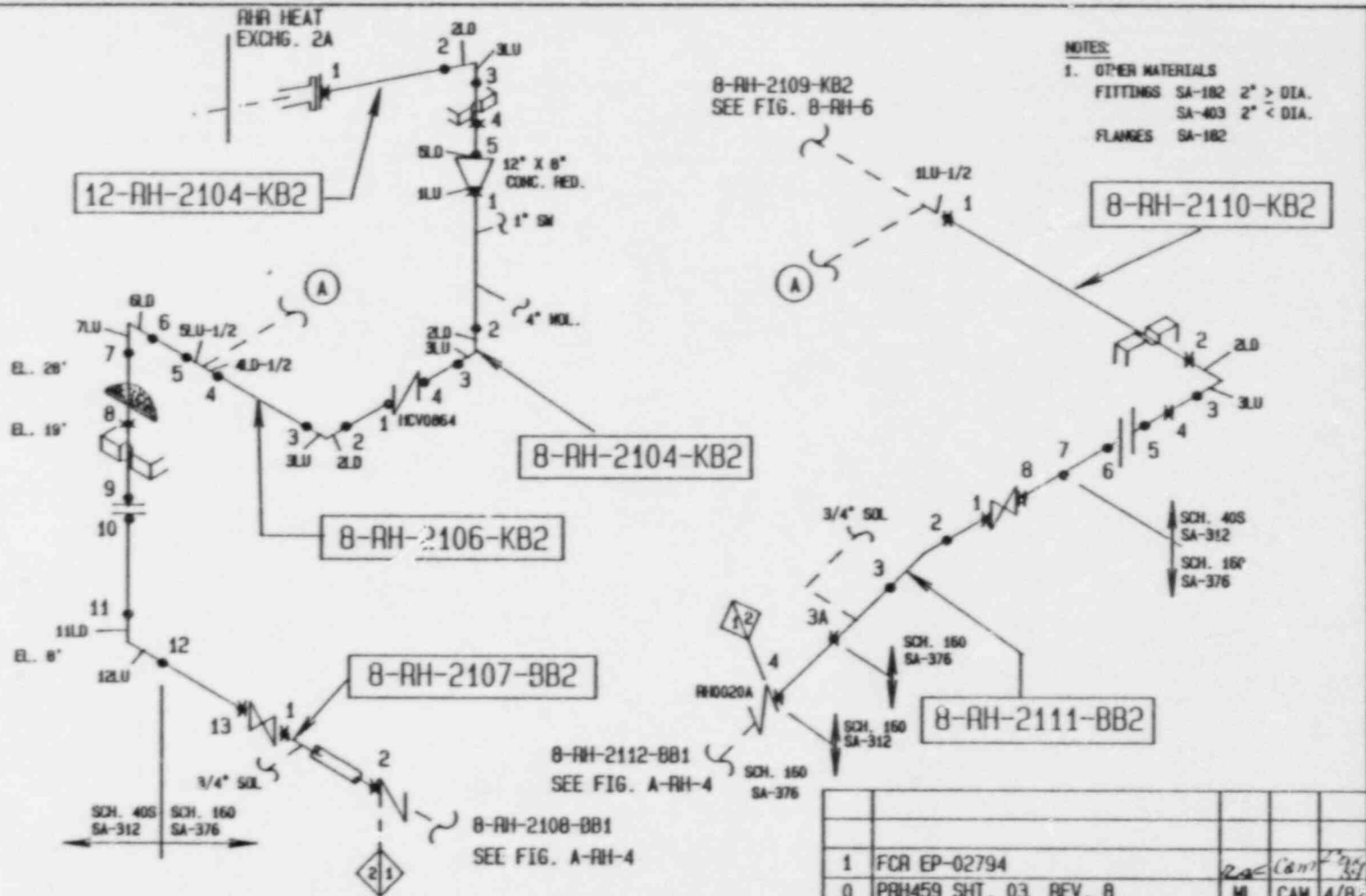
8-RH-2106-KB2  
SEE FIG. 8-RH-7

SYSTEM	RESIDUAL HEAT REMOVAL		
LINE	12-RH-2103-KB2	8-RH-2103-KB2	8-RH-2109-KB2
NOM. THK. /SCH.	0.375/40S	0.322/40S	0.322/40S
MATERIAL	SA-312	SA-312	SA-312
INSP. METHOD	VOL./SU.	SU.	SU.
CAL. BLOCK	SS-13	N/A	N/A
KEY:	• SHOP WELD	✕ FIELD WELD	

1	ISSUED TO FCN 3458			
0	PRH459 SHT. 03, REV. 8	ML	CAM	4/87
NO.	REVISION	ENG	CHK	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	8-RH-6	REV.	1	
AREA				
P&ID	9F20000			
SYSTEM ISO (S)	4C369PRH459 SHT. 03			



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- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

8-RH-2109-KB2  
 SEE FIG. 8-RH-6

8-RH-2112-BB1  
 SEE FIG. A-RH-4

8-RH-2108-BB1  
 SEE FIG. A-RH-4

NO.	REVISION	ENG	CKR	DATE
1	FOR EP-02794			
0	PRH459 SHT. 03, REV. 8			

SYSTEM	RESIDUAL HEAT REMOVAL			
LINE	12-RH-2104-KB2	8-RH-2104-KB2	8-RH-2106-KB2, -2110-KB2	8-RH-2107-BB2, -2111-BB2
NGM. THK. /SCH.	0.375/40S	0.322/40S	0.322/40S & 0.906/160	0.906/160
MATERIAL	SA-312	SA-312	SA-312 & SA-376	SA-376
INSP. METHOD	VOL./SU.	SU.	SU. & VOL./SU.	VOL./SU.
CAL. BLOCK	SS-13	N/A	SS-11	SS-11

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	b-RH-7 REV. 1
AREA	
P&ID	9F20000
SYSTEM ISO (S)	4C369PRH459 SHT.03

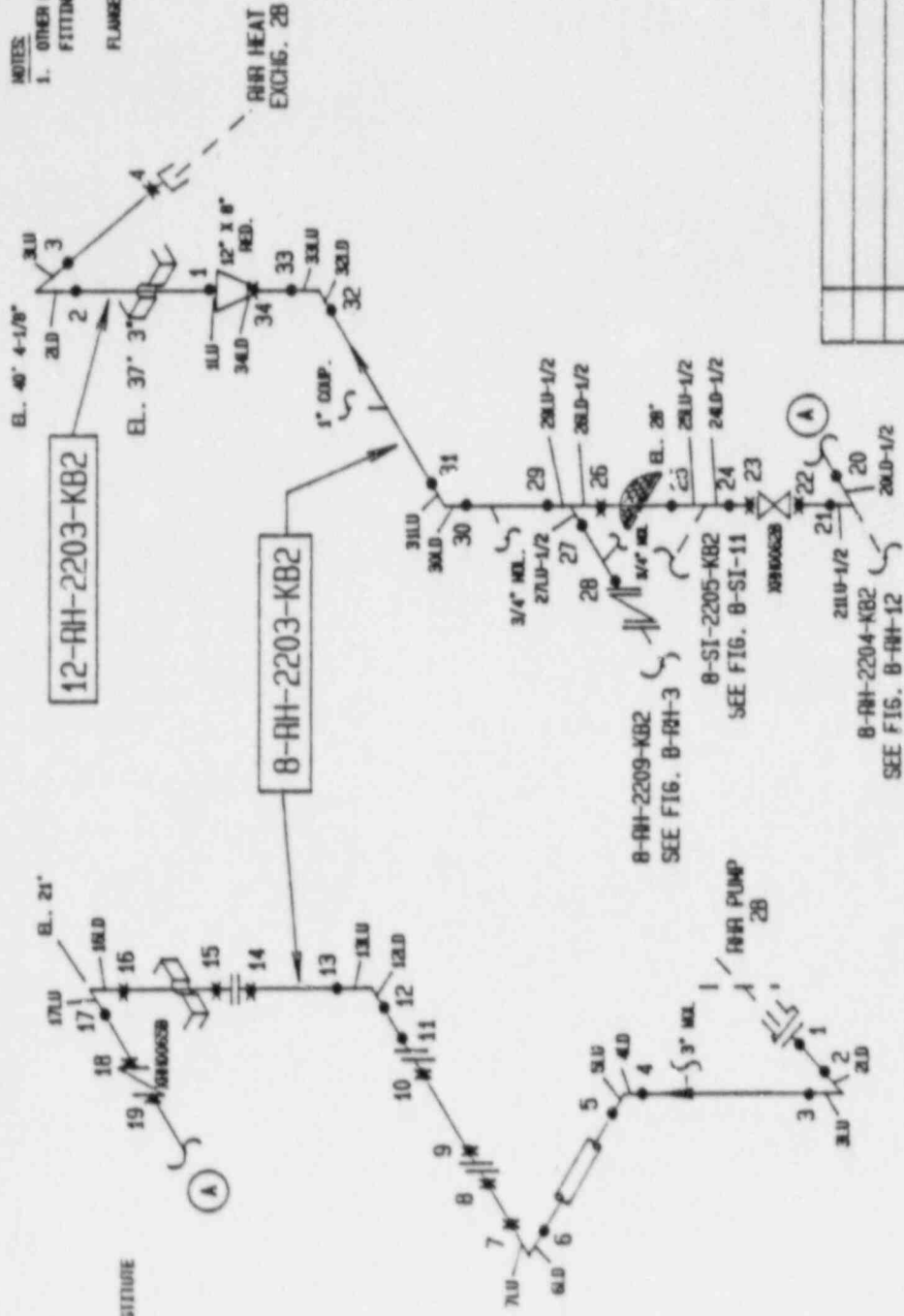
KEY: ● SHOP WELD    ✱ FIELD WELD

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NOTES:  
1. OTHER MATERIALS  
FITTINGS SA-102 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-102



SYSTEM	RESIDUAL HEAT REMOVAL
LINE	12-RH-2203-KB2
NOM. THK. /SCH.	0.375/405
MATERIAL	SA-312
INSP. METHOD	VOL./SU.
CAL. BLOCK	SS-13
KEY:	● SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENGR	CNR	DATE
0	RRH459 SHT. 02, REV. 7	44		7/82

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE B-RH-8 REV. 0

AREA

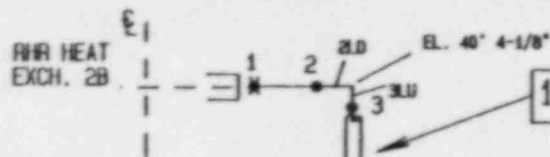
PGID 9F20000

SYSTEM ISO (S) 2C36SRH459 SHT. 02



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12-RH-2215-KB2

- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

8-RH-2215-KB2

8-RH-2206-KB2

8-RH-2207-BB2

8-RH-2209-KB2  
 SEE FIG. 8-RH-3

8-RH-2208-BB1  
 SEE FIG. A-RH-2

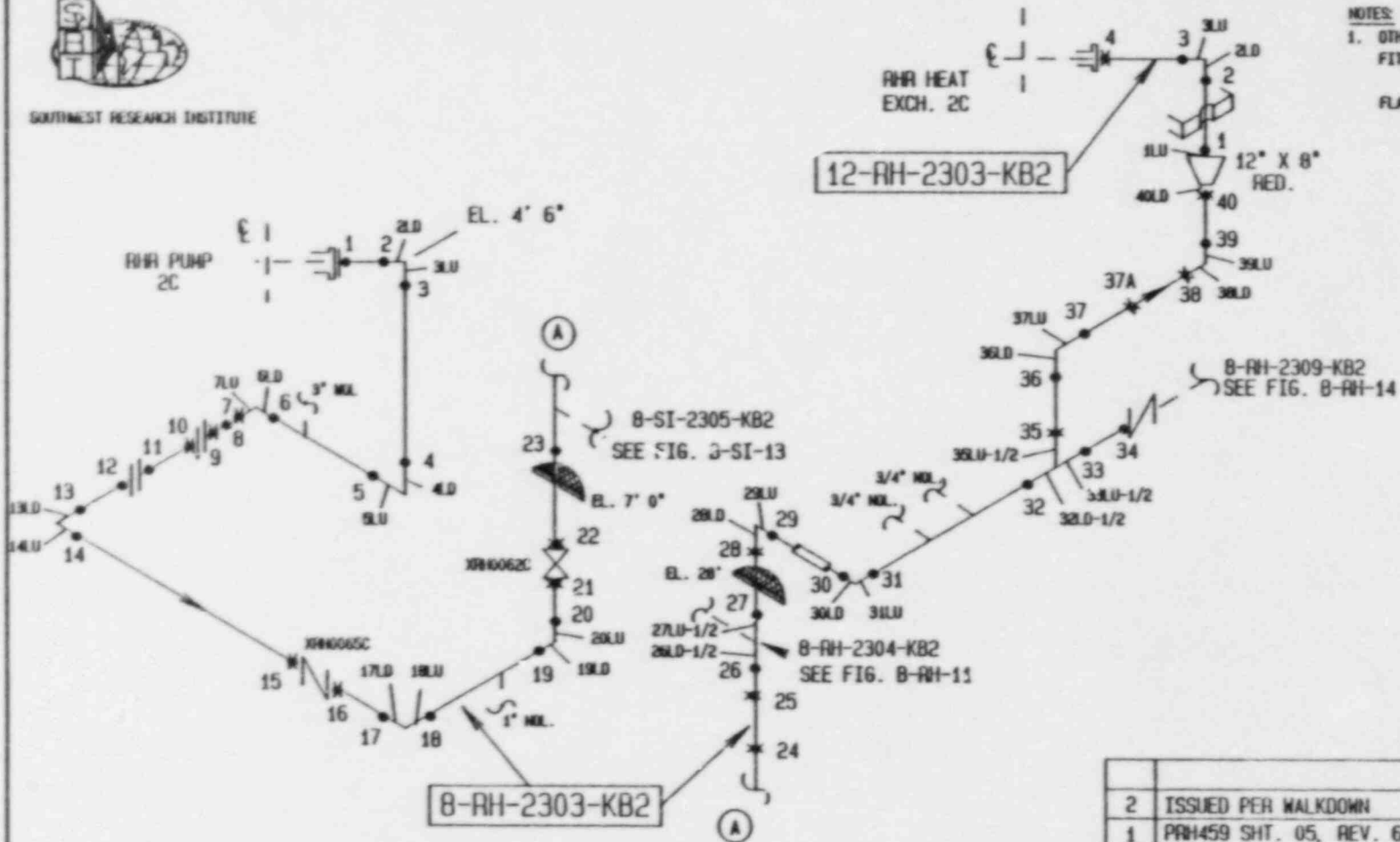
2	ISSUED TO FCN 4654		
1	FCR EP-02869	ML	7/87
0	PRH459 SHT. 07, REV. 6	ML	CAH 4/87
NO.	REVISION	ENG	CHKR DATE

SYSTEM		RESIDUAL HEAT REMOVAL				SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
LINE		12-RH-2215-KB2	8-RH-2206-KB2	8-RH-2207-BB2	8-RH-2215-KB2	FIGURE	8-RH-9 REV. 2
NOM. THK./SCH.		0.375/40S	0.322/40S & 0.906/A60	0.906/160	0.322/40S	AREA	
MATERIAL		SA-312	SA-312 & SA-376	SA-312	SA-312	P&ID	9F20000
INSP. METHOD		VOL./SU.	SU. & VOL./SU.	VOL./SU.	SU.	SYSTEM ISO (S)	4C369PRH459 SHT. 07
CAL. BLOCK		SS-13	SS-11	SS-11	N/A		
KEY:		● SHOP WELD	✱ FIELD WELD				



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NOTES:

1. OTHER MATERIALS

- FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.
- FLANGES SA-182

SYSTEM	RESIDUAL HEAT REMOVAL	
LINE	12-RH-2303-KB2	8-RH-2303-KB2
NOM. THK. /SCH.	0.375/40S	0.322/40S
MATERIAL	SA-312	SA-312
INSP. METHOD	VOL./SU.	SU.
CAL. BLOCK	SS-13	N/A
KEY:	● SHOP WELD	✱ FIELD WELD

NO.	REVISION	ENG.	CHKR	DATE
2	ISSUED PER WALKDOWN			
1	PRH459 SHT. 05, REV. 6	ML		7/87
0	PRH459 SHT. 05, REV. 5	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE	8-RH-10	REV. 2
AREA		
PGID	9F20000	
SYSTEM ISO (S)	2C369PRH459 SHT. 05	





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- NOTES  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

B-FH-2304-KB2  
 SEE FIG. B-FH-13

B-FH-2304-KB2

B-FH-2303-KB2  
 SEE FIG. B-FH-10

N.P-1/2

SYSTEM	RESIDUAL HEAT REMOVAL
LINE	B-FH-2304-KB2
NOM. THK. /SCH.	0.322/40S
MATERIAL	SA-312
INSP. METHOD	SU.
CAL. BLOCK	N/A
KEY:	• SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENG	CKR	DATE
1	ISSUED PER WALKDOWN	ZAF	CM	2/2/87
0	PRH459 SHT. 05, REV. 5	ML	CAM	4/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-FH-11	REV.	1	
AREA				
P&ID	9F20000			
SYSTEM ISO (S)	2C369PRH459 SHT. 05			

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NOTES

- OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



8-RH-2204-KB2

8-RH-2203-KB2  
SEE FIG B-RH-8

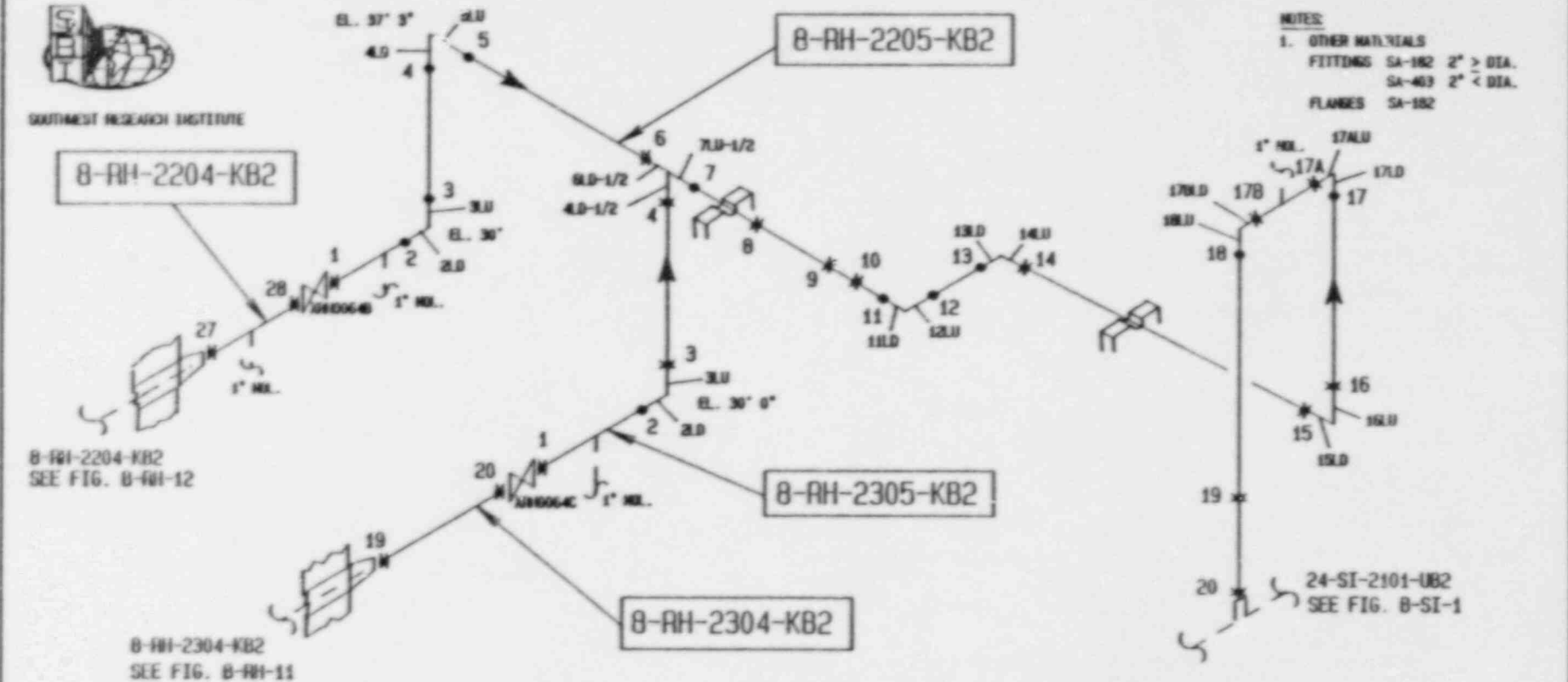
8-RH-2204-KB2  
SEE FIG. B-RH-13

PIPE	RESIDUAL HEAT REMOVAL
LINE	8-RH-2204-KB2
NOM. THK. / SCH.	0.322 / 40S
MATERIAL	SA-312
INSP. METHOD	SI
CAL. BLOCK	N/A
KEY:	● SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENG	CNR DATE
0	PRH459 SHIT. 02, REV. 7	By [Signature]	8/11/81
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	8-RH-12 REV. 0		
AREA			
PGID	9F20000		
SYSTEM ISO (S)	2C369PRH459 SHIT. 02		



SOUTHWEST RESEARCH INSTITUTE



- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
           SA-403 2" < DIA.  
 FLANGES SA-182

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8-RH-2204-KB2  
SEE FIG. 8-RH-12

8-RH-2304-KB2  
SEE FIG. 8-RH-11

24-SI-2101-UB2  
SEE FIG. 8-SI-1

NO.	REVISION	ENG	CHKR	DATE
1	PER WALKDOWN	24	(initials)	2/2/87
0	RH259 SH. 02, REV. 3	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE 8-RH-13 REV. 1

AREA

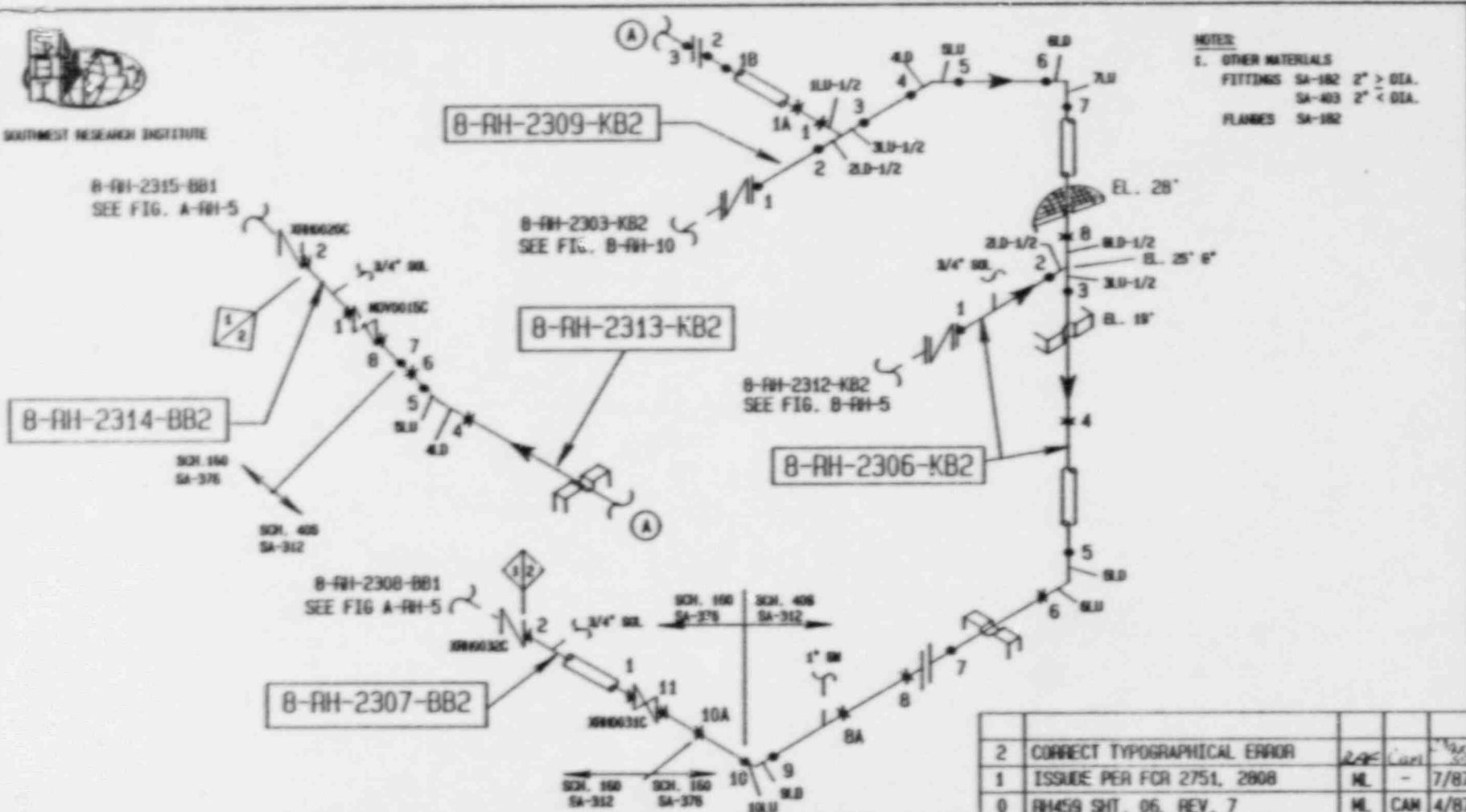
P&ID 9F20000

SYSTEM ISO (S) 2N369PH259 SH. 02

SYSTEM	RESIDUAL HEAT REMOVAL			
LINE	8-RH-2204-KB2	8-RH-2205-KB2	8-RH-2304-KB2	8-RH-2305-KB2
NOM. THK. /SCH.	0.322/40S	0.322/40S	0.322/40S	0.322/40S
MATERIAL	SA-312	SA-312	SA-312	SA-312
INSTALLATION METHOD	SU.	SU.	SU.	SU.
WELD LOCK	N/A	N/A	N/A	N/A
FIELD WELD	* FIELD WELD			



SOUTHWEST RESEARCH INSTITUTE



NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

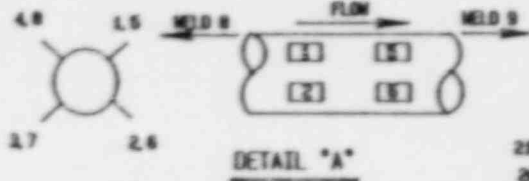
NO.	REVISION	ENG	CHKR	DATE
2	CORRECT TYPOGRAPHICAL ERROR	ZCF	Carl	7/87
1	ISSUE PER FCR 2751, 2808	ML		7/87
0	RH459 SHT. 06, REV. 7	ML	CAM	4/87

SYSTEM	RESIDUAL HEAT REMOVAL				SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1		
LINE	8-RH-2306-KB2, -2313-KB2	8-RH-2307-BB2	8-RH-2309-KB2	8-RH-2314-BB2	FIGURE	B-RH-14 REV. 2	
NOM. THK. /SCH.	0.322/40S & 0.906/160	0.906/160	0.322/40S	0.906/160	AREA		
MATERIAL	SA-312 & SA-376	SA-376	SA-312	SA-376	P&ID	9F20000	
INSP. METHOD	SU. & VOL. /SU.	VOL. /SU.	SU.	VOL. /SU.	SYSTEM ISO (S)	4C369PH459 SHT. 06	
CAL. BLOCK	SS-11	SS-11	N/A	SS-11			
KEY:	● SHOP WELD    ✕ FIELD WELD						

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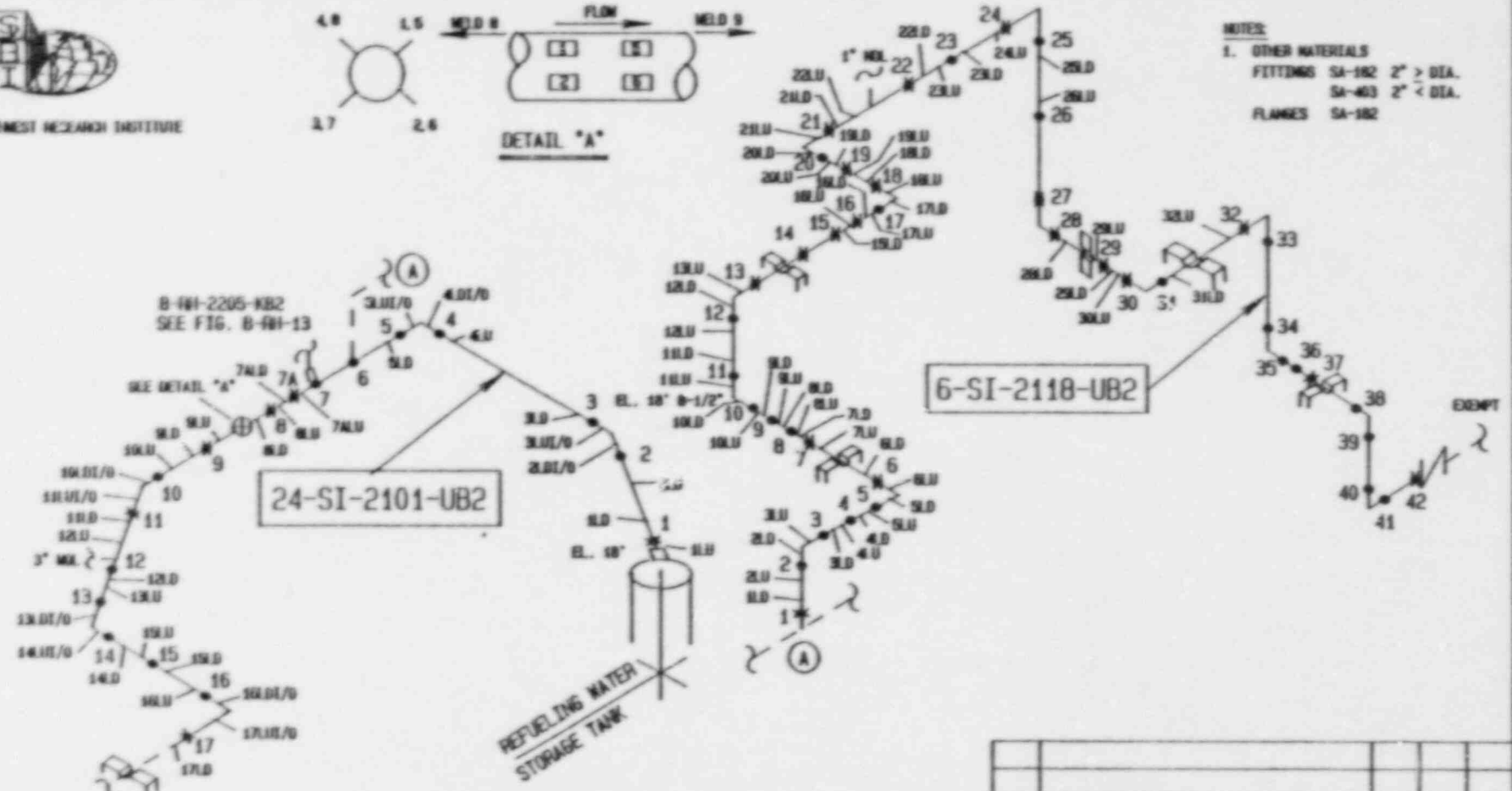


SOUTHWEST RESEARCH INSTITUTE



NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

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24-SI-2101-UB2 (CONT'D)  
 SEE FIG. B-SI-2

SYSTEM	SAFETY INJECTION	
LINE	24-SI-2101-UB2	6-SI-2118-UB2
NOM. THK. / SCH	0.375/STD. WT.	0.280/40S
MATERIAL	SA-358	SA-312
INSP. METHOD	VOL./SJI.	SJ.
CAL. BLOCK	SS-32	N/A

KEY: ● SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENG	CHKR	DATE
2	PER WALKDOWN			
0	PSI272 SHT. 02, REV. 7	ML	CAM	4/85

SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2

FIGURE B-SI-1 REV. 2

AREA

PSID 9F05013

SYSTEM ISO (S) 2K369PSI272 SHT. 02



SPEARHEAD RESEARCH INSTITUTE

24-SI-2101-UB2 (CONT'D)  
SEE FIG. B-SI-1

NOTES  
1. OTHER MATERIALS  
FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-182



SYSTEM	SAFETY INJECTION
L I N E	24-SI-2101-UB2
NOM. THK. /SCH.	0.375/STD.WT.
MATERIAL	SA-358
INSP. METHOD	WIL./SI.
CAL. BLOCK	SS-31
KEY:	● SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENG	CHK	D.ATE
1	PSI572 SHT. 03, REV. 6			
0	PSI572 SHT. 03, REV. 7	M	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	B-SI-2 REV. 1
AREA	
P&ID	9F05013
SYSTEM ISO (S)	2-369PSI572 SHT. 03

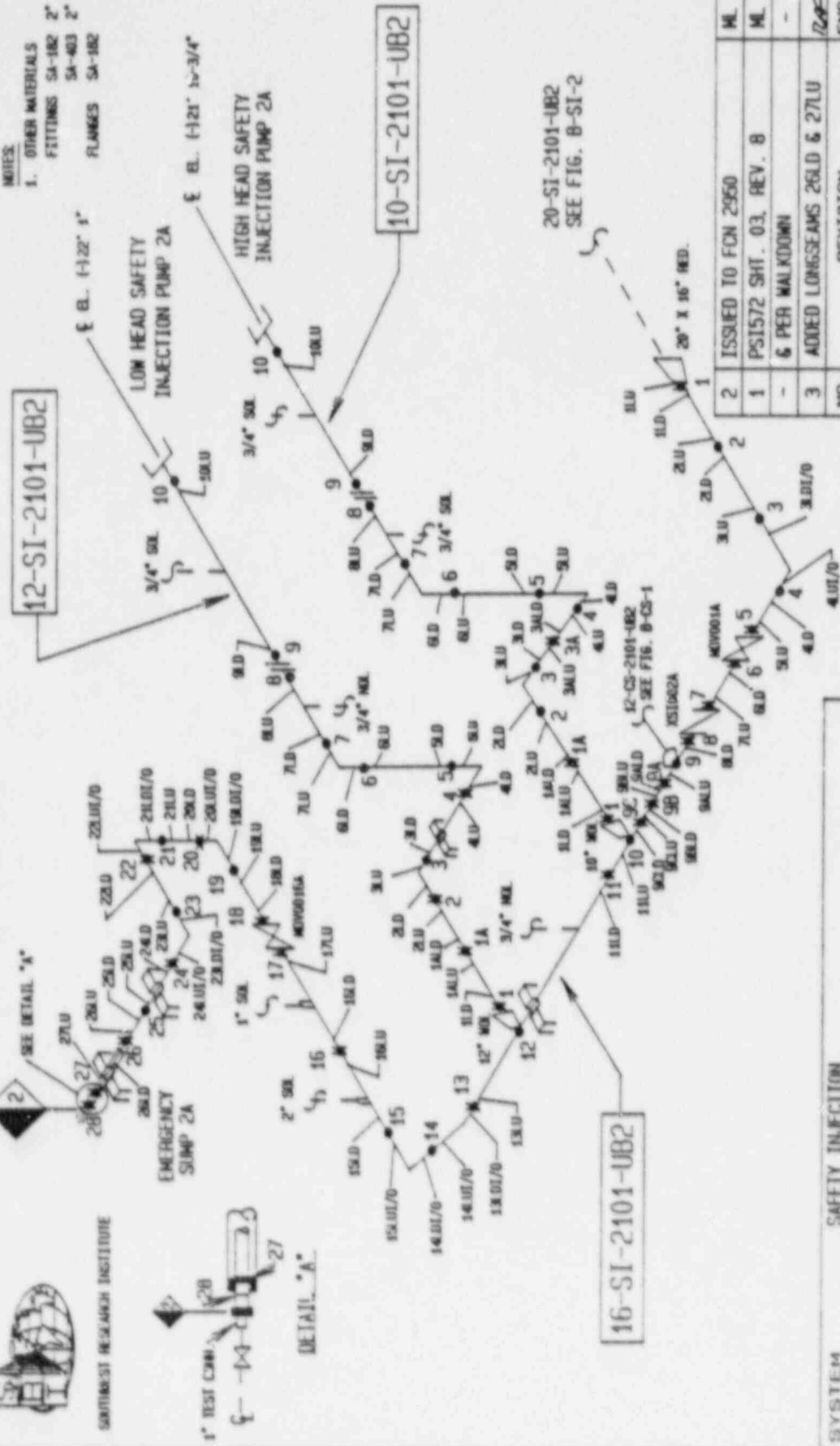


SOUTHWEST RESEARCH INSTITUTE



DETAIL "A"

NOTES  
1. OTHER MATERIALS  
FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-182



SYSTEM	SAFETY INJECTION	12-SI-2101-UB2	10-SI-2101-UB2
LINE	16-SI-2101-UB2	0.375/40S	0.365/40S
NOM. THK./SCH	0.375/STD. WT.		
MATERIAL	SA-358	SA-312	SA-312
TRNSP. METHOD	WEL./SU.	WEL./SU.	SU.
CAL. BLOCK	SS-30	SS-12	N/A

NO.	REVISION	ENG	CHK	DATE
2	ISSUED TO FCN 2950	ML	-	7/87
1	PSI572 SHT. 03, REV. 8 & PER WALKDOWN	ML	-	5/87
3	ADDED LONGSEAMS 26LD & 27LU			

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE B-SI-3 REV. 3

AREA

PGID 9F05013

SYSTEM ISO (S) 2F369PSI572 SHT. 03



SOUTHWEST RESEARCH INSTITUTE

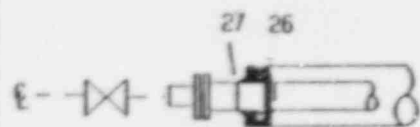
EMERGENCY  
SUMP 1B

SEE DETAIL "A"

16-SI-2201-UB2

NOTES:

- OTHER MATERIALS
- FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.
- FLANGES SA-182



DETAIL "A"



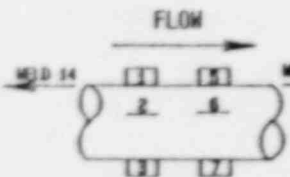
SEE DETAIL "B"

12-SI-2201-UB2

EL. +122' 1"  
LOW HEAD SAFETY  
INJECTION PUMP 2B

EL. +121' 10-3/4"  
HIGH HEAD SAFETY  
INJECTION PUMP 2B

10-SI-2201-UB2



DETAIL "B"

FLOW

12-CS-2201-UB2  
SEE FIG. B-CS-2

EL. +127'  
20-SI-2101-UB2  
SEE FIG. B-SI-2

SYSTEM	SAFETY INJECTION		
L. LINE	16-SI-2201-UB2	12-SI-2201-UB2	10-SI-2201-UB2
NOM. THK. /SCH	0.375/STD. WT.	0.375/40S	0.365/40S
MATERIAL	SA-358	SA-312	SA-312
INSP. METHOD	VOL./SU.	VOL./SU.	SU.
CAL. BLOCK	SS-30	SS-12	N/A
KEY:	● SHOP WELD	✱ FIELD WELD	

NO.	REVISION	ENG	CHKR	DATE
1	ISSUED TO FCN 2982, 2997, 3047	RAC	Cam	4/87
-	G WALKDOWN	-	-	-
0	PSI572 SHT. 04, REV. 8	ML	CAM	4/87

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE	B-SI-4	REV.	1
AREA			
PGID	9F05014		
SYSTEM ISO (S)	2F369PSI572 SHT. 04		

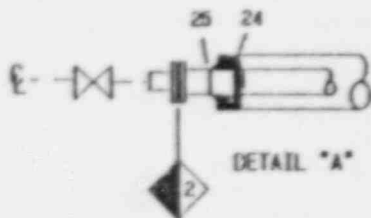
19-61



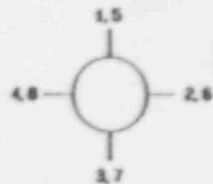


SOUTHWEST RESEARCH INSTITUTE

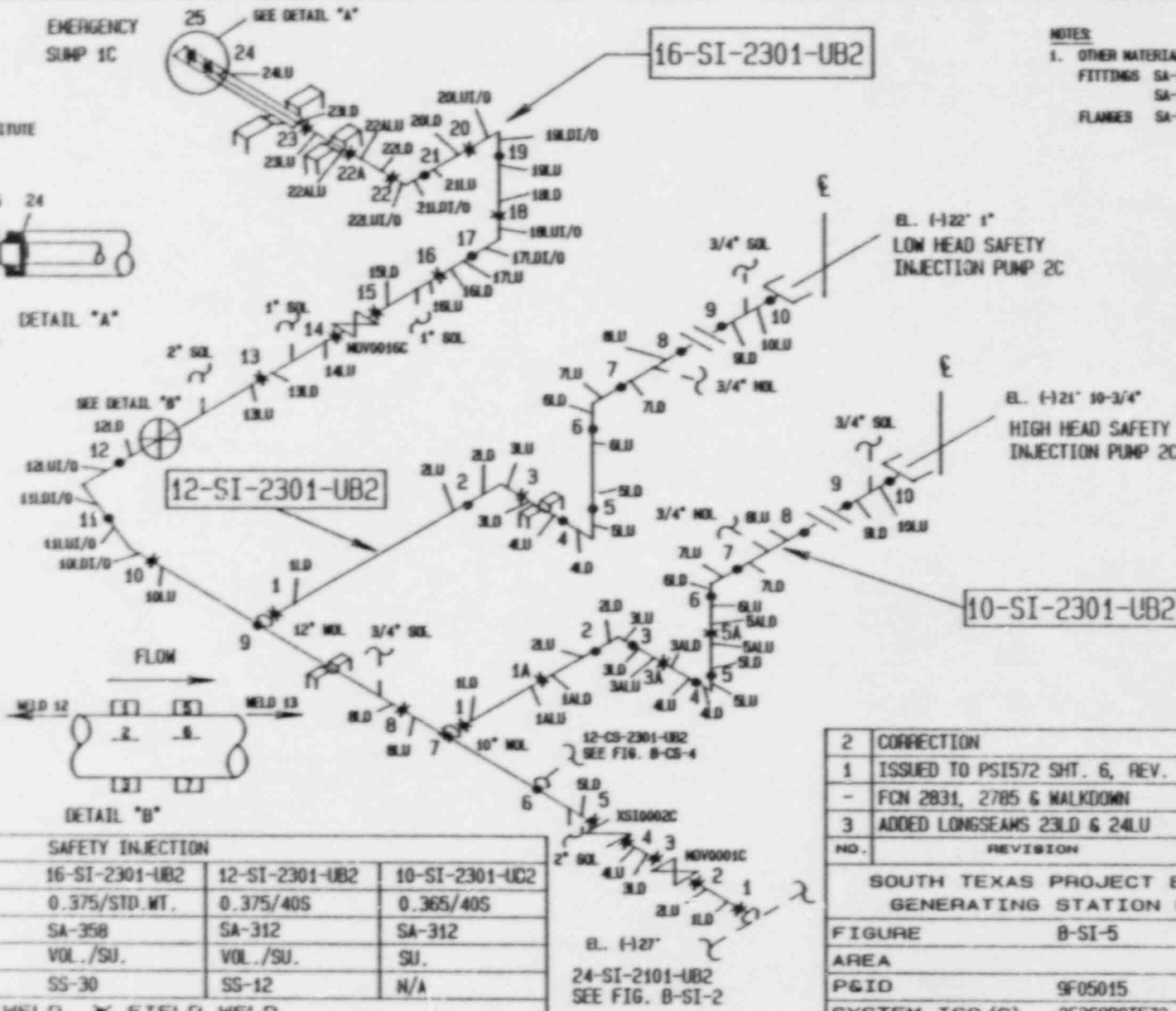
EMERGENCY  
SUMP 1C



DETAIL "A"



DETAIL "B"



NOTES  
1. OTHER MATERIALS  
FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-182

2	CORRECTION	ML	-	6/87
1	ISSUED TO PSI572 SHT. 6, REV. 7,	ML	-	5/87
-	FCN 2831, 2785 & WALKDOWN	-	-	-
3	ADDED LONGSEAMS 23LD & 24LU			
NO.	REVISION	ENG	CHKR	DATE

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	8-SI-5	REV.	3
AREA			
P&ID	9F05015		
SYSTEM ISO (S)	2F369PSI572 SHT. 06		

SYSTEM	SAFETY INJECTION		
LINE	16-SI-2301-UB2	12-SI-2301-UB2	10-SI-2301-UB2
NOM. THK. /SCH	0.375/STD.WT.	0.375/40S	0.365/40S
MATERIAL	SA-358	SA-312	SA-312
INSP. METHOD	VOL./SU.	VOL./SU.	SU.
CAL. BLOCK	SS-30	SS-12	N/A
KEY:	● SHOP WELD    ✕ FIELD WELD		

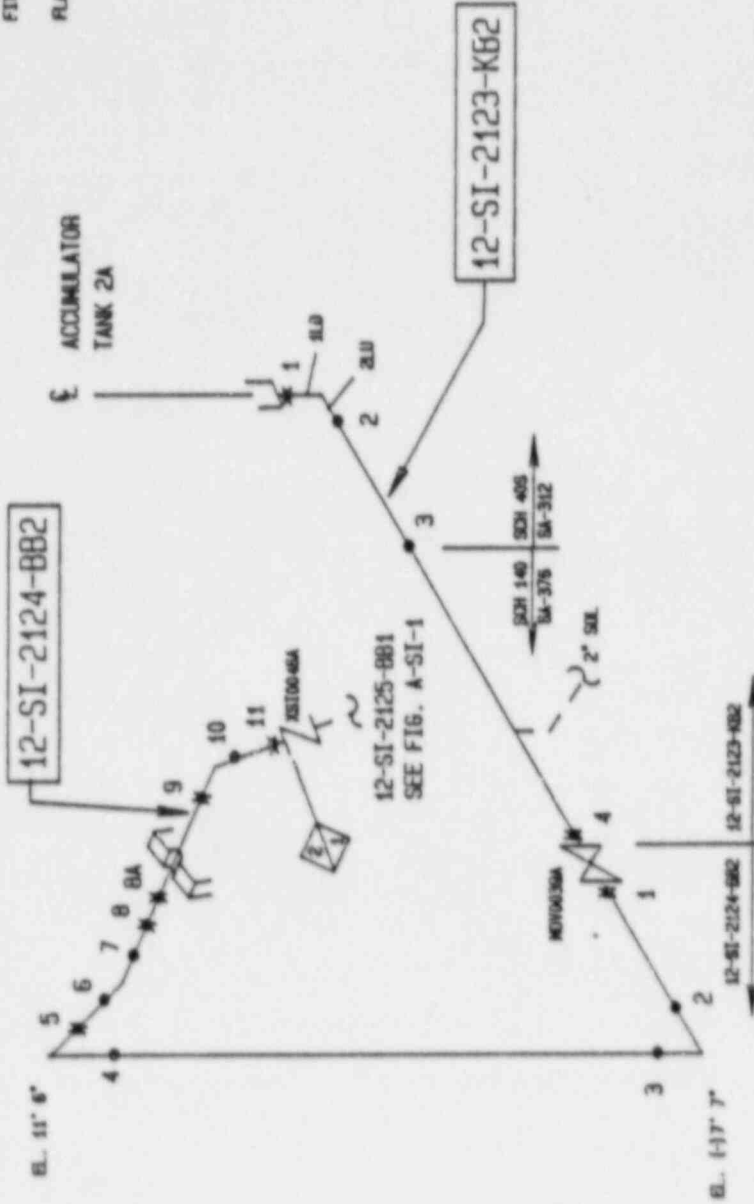
C-62



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NOTES

- OTHER MATERIALS
- FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.
- FLANGES SA-152

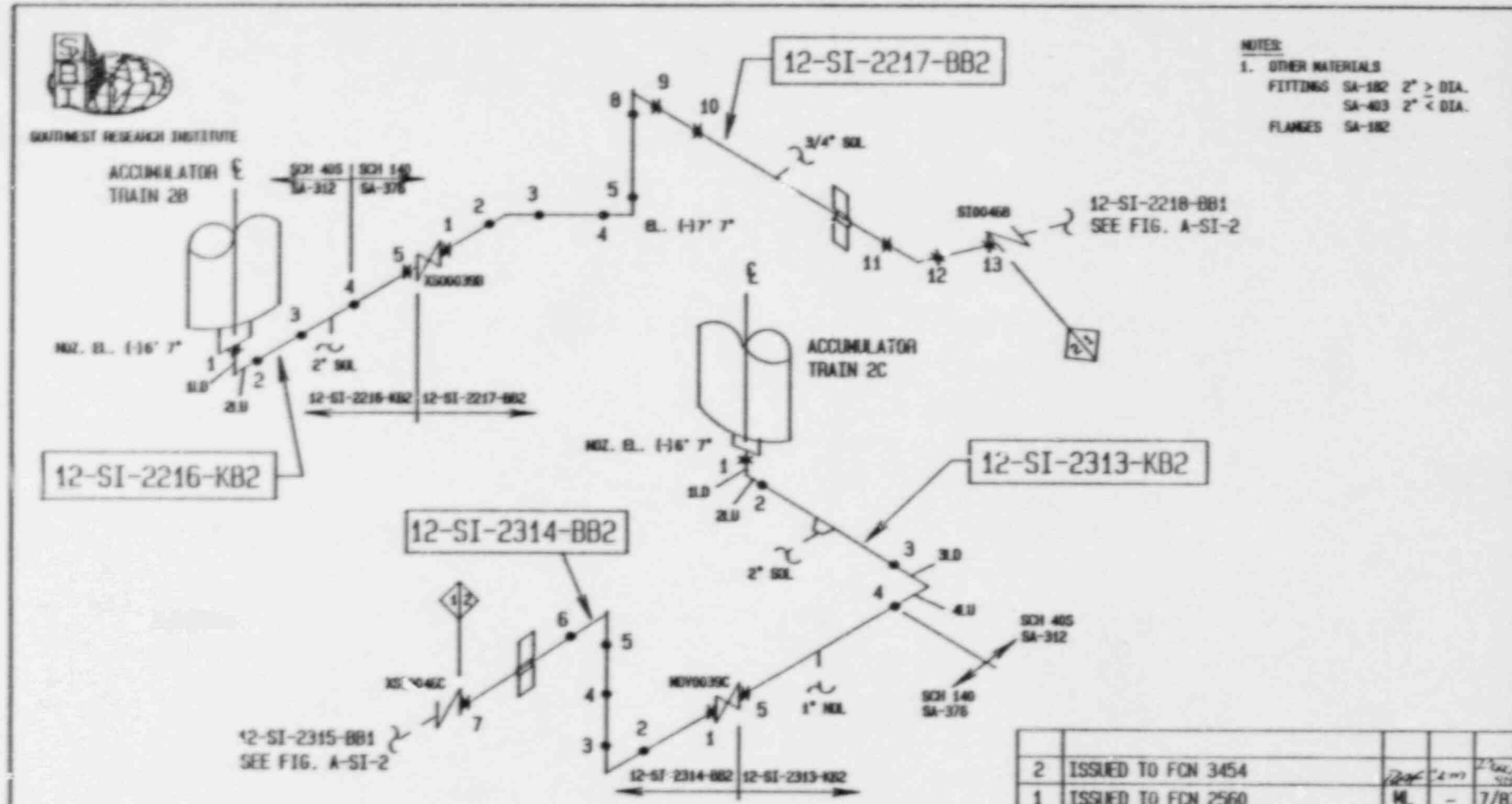


SYSTEM SAFETY INJECTION	
LINE	12-SI-2123-K52
NOM. THK. / SCH	0.375/40S & 1.125/140
MATERIAL	SA-312 & SA-376
INSP. METHOD	WLT./SU.
CPL. BLOCK	SS-13 & SS-21
KEY:	● SHOP WELD    ✱ FIELD WELD

1	FDN 2P-03001	ENGR	CHKR	DATE
0	PSI472 SHIT. 04, REV. 4	ML	CAM	4/87
NO.	REVISION	ENGR	CHKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-SI-6 REV. 1			
AREA				
P&ID	9F05016			
SYSTEM ISO (S)	4C369PS1472 SHIT. 04			



SOUTHWEST RESEARCH INSTITUTE



- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

D-6

SYSTEM	SAFETY INJECTION		
LINE	12-SI-2216-KB2, -2313-KB2	12-SI-2217-BB2	12-SI-2314-BB2
NOM. THK. /SCH.	0.375/40S & 1.125/140	1.125/140	1.125/140
MATERIAL	SA-312 & SA-376	SA-376	SA-376
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-12 & SS-21	SS-21	SS-21
KEY:	● SHOP WELD    ✕ FIELD WELD		

2	ISSUED TO FCN 3454			
1	ISSUED TO FCN 2560	ML		7/87
0	PSI472 SHT. 03, REV. 7	ML	CAM	4/87
NO.	REVISION	ENG	CHKR	DATE

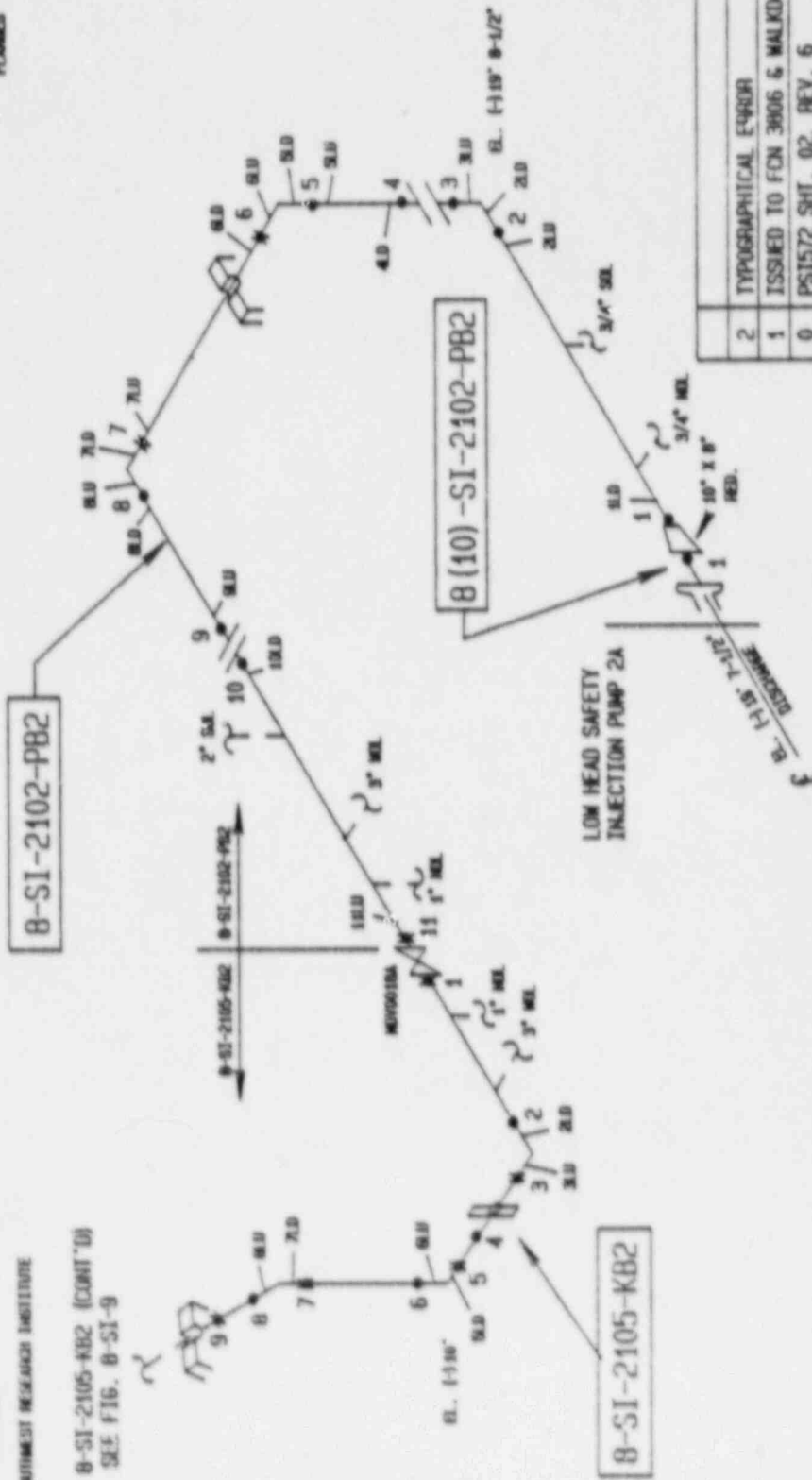
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2		
FIGURE	B-SI-7	REV. 2
AREA		
P&ID	9F05016	
SYSTEM ISO (S)	5C369PSI472 SHT. 03	



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8-SI-2105-KB2 (CONT'D)  
SEE FIG. 8-SI-9

NOTES:  
1. OTHER MATERIALS  
FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-182



SYSTEM	SAFETY INJECTION	
LINE	8(10)-SI-2102-PB2	8-SI-2102-PB2
NOM. THK./SCH.	0.365/STD.WT.	0.322/405
MATERIAL	SA-403	SA-312
INSP. METHOD	SI.	SI.
CAL. BLOCK	N/A	N/A
KEY:	● SHOP WELD	✱ FIELD WELD

NO.	REVISION	ENG	CHK	DATE
2	TYPGRAPHICAL ERROR	ZAK		10/87
1	ISSUED TO FOR 3806 & WALKDOWN	ML		CAM 4/87
0	PS1572 SHT. 02, REV. 6	ML		CAM 4/87

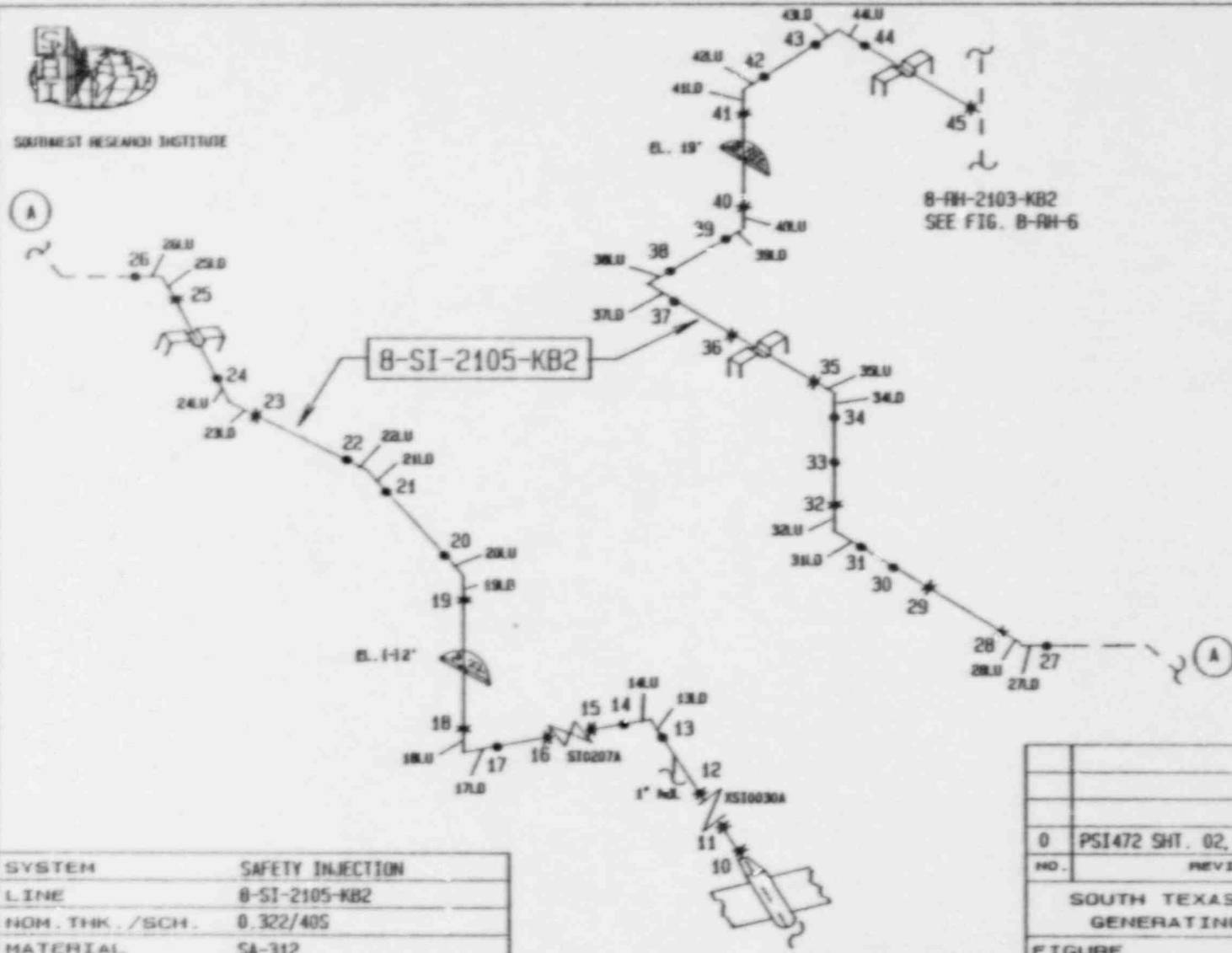
  

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	8-SI-8 REV. 2
AREA	
PGID	9F05013
SYSTEM ISO (S)	5F36PSJ572 SHT. 02



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NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



8-FH-2103-KB2  
 SEE FIG. B-FH-6

8-SI-2105-KB2

8-SI-2105-KB2 (CONT'D)  
 SEE FIG. B-SI-8

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SYSTEM	SAFETY INJECTION
LINE	8-SI-2105-KB2
NOM. THK. /SCH.	0.322/40S
MATERIAL	SA-312
INSP. METHOD	SU
CAL. BLOCK	N/A
KEY:	• SHOP WELD    ✕ FIELD WELD

0	PSI472 SHT. 02, REV. 8			
NO.	REVISION	ENG	CHKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	8-SI-9	REV.	0	
AREA				
P&ID	9F05013			
SYSTEM ISO (S)	2C369PSI472 SHT. 02			

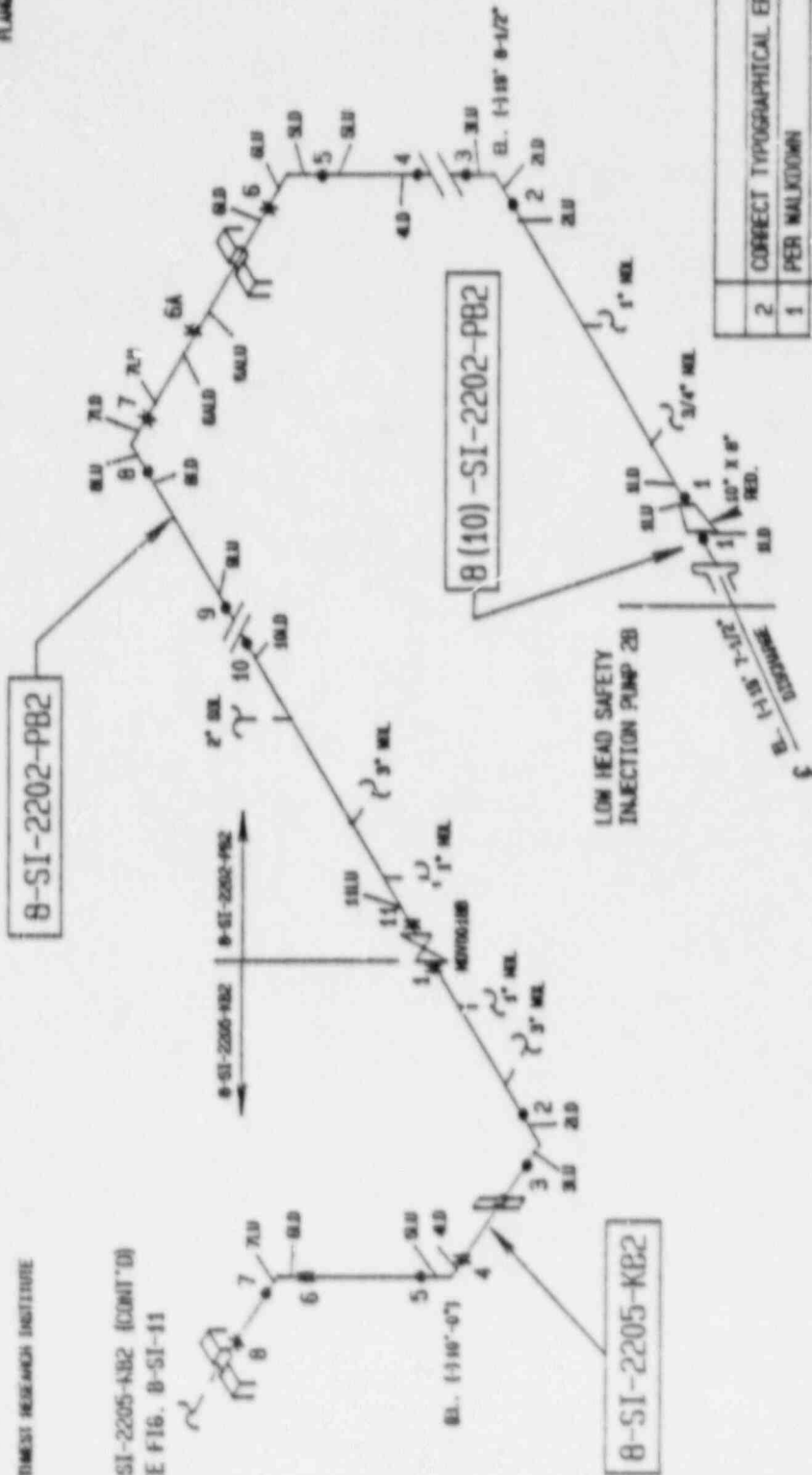


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8-SI-2205-KB2 (CONT'D)  
SEE FIG. 8-SI-11

NOTES

1. OTHER MATERIALS
- FITTINGS SA-182 2" > DIA.
- SA-403 2" < DIA.
- FLANGES SA-182



SYSTEM	SAFETY INJECTION	8-SI-2205-KB2	8-SI-2202-PB2	8-SI-2205-KB2
LINE	8(10)-SI-2202-PB2	0.322/405	0.322/405	0.322/405
NOM. THK./SCH.	SA-403	SA-312	SA-312	SA-312
MATERIAL	SI.	N/A	N/A	N/A
INSP. METHOD	N/A	FIELD WELD		
KEY:	● SHOP WELD	✱ FIELD WELD		

NO.	REVISION	ENG	CHK	DATE
2	CORRECT TYPOGRAPHICAL ERROR	ML		5/87
1	PER WALKDOWN	ML	CAM	4/87
0	PSI572 SHIT. 01, REV. 6	ENG		

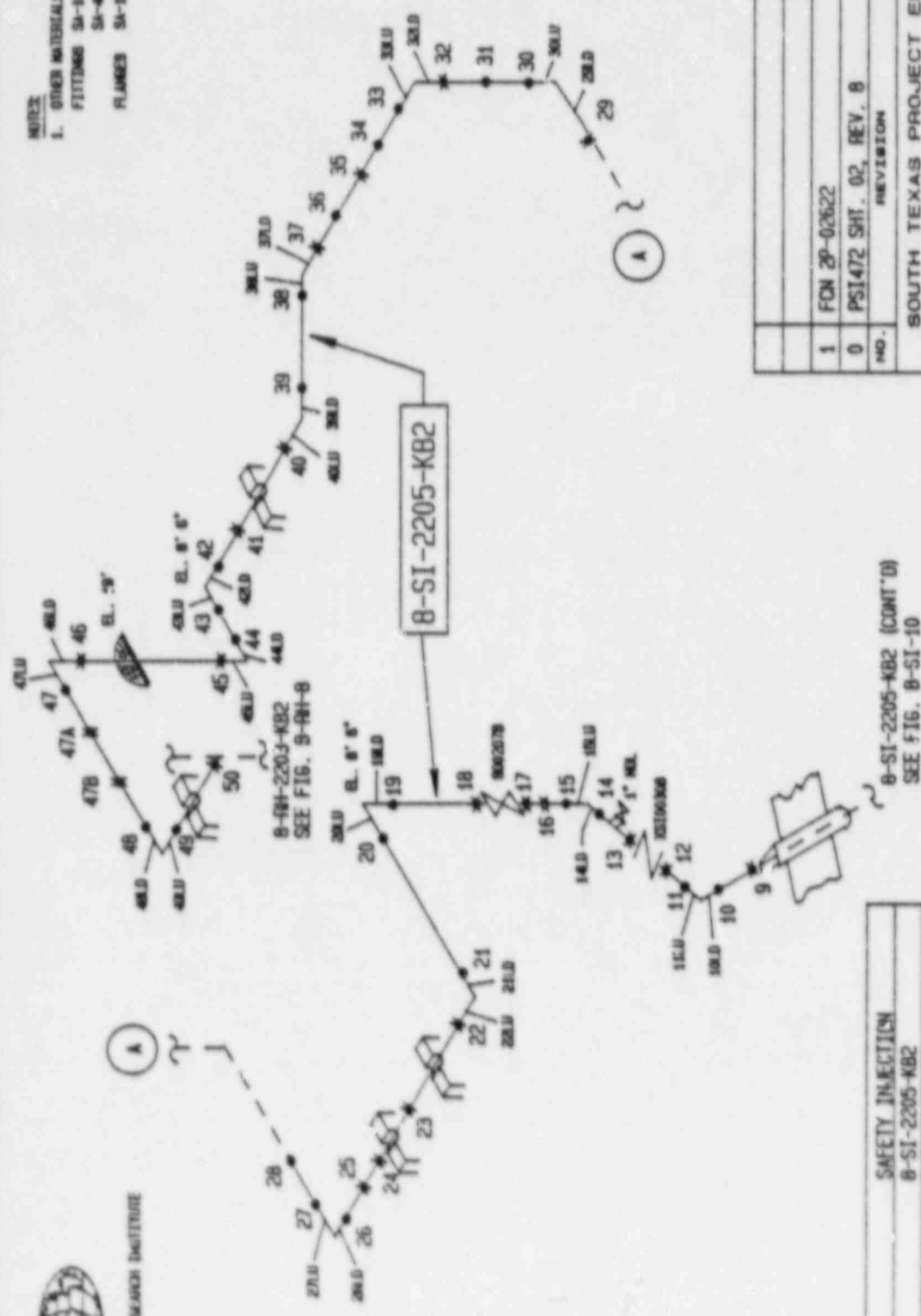
  

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	8-SI-10 REV. 2
AREA	
PGID	9F05014
SYSTEM ISO (S)	5F369S1572 SHIT. 01



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NOTICE  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-483 2" < DIA.  
 FLANGES SA-182



SYSTEM	SAFETY INJECTION
LINE	B-SI-2205-KB2
NOM. THK. / SCH	0.322 / 40S
MATERIAL	SA-312
INSP. METHOD	SU.
CAL. BLOCK	N/A
KEY:	● SHOP WELD    ✕ FIELD WELD

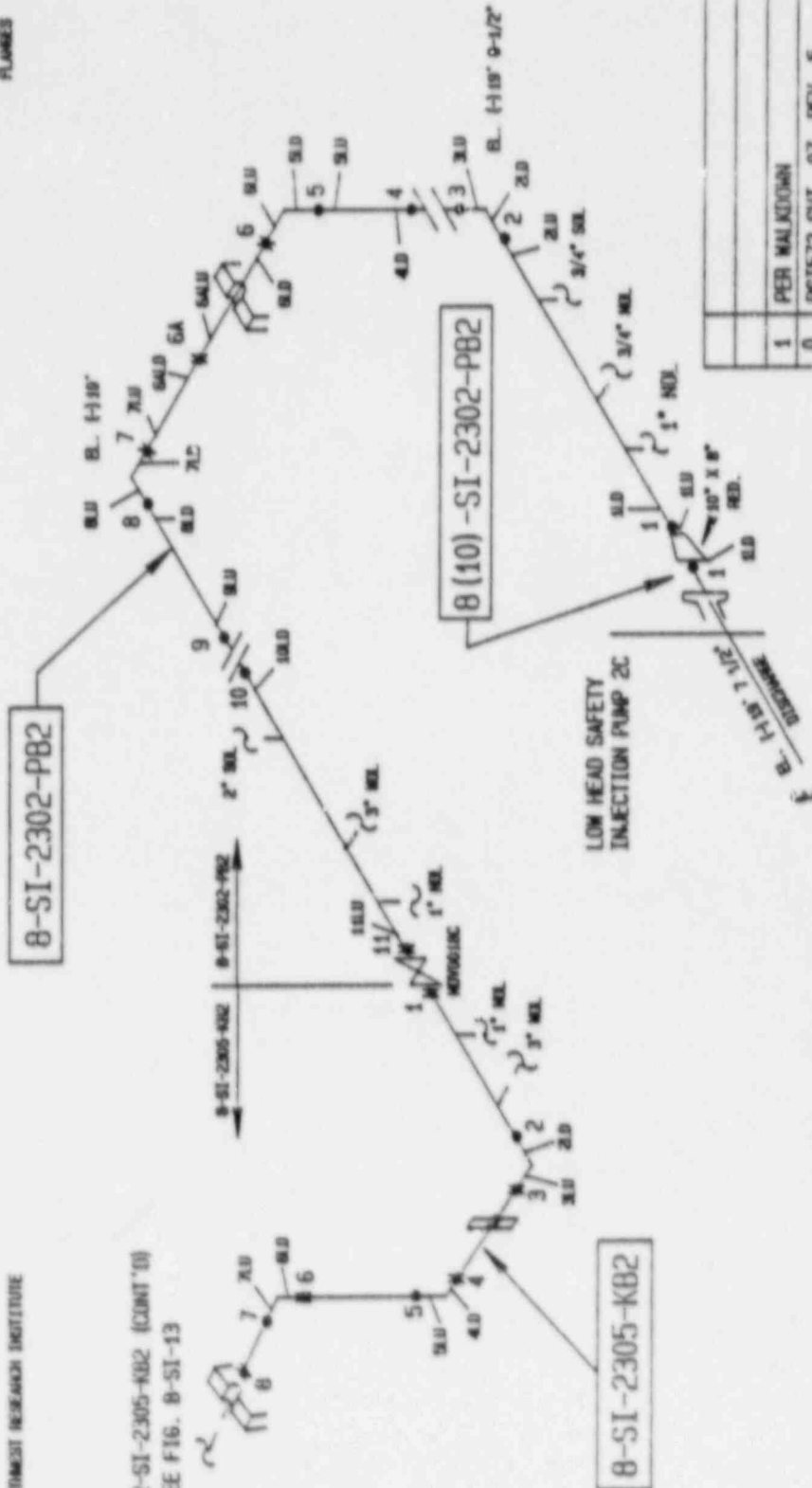
NO.	REVISION	ENG	CHK DATE
1	FON 2P-02622		1/24/87
0	PSI472 SHI. 02, REV. 8	ML	CAM 4/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE		B-SI-11 REV. 1	
AREA		9F05014	
P&ID		2369PSI472 SHI. 02	



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12-SI-2305-KB2 (CONT'D)  
SEE FIG. 8-SI-13

NOT FOR MATERIALS  
1. FITTINGS SA-102 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-102



SYSTEM	SAFETY INJECTION	
LINE	8(10)-SI-2302-PB2	8-SI-2305-KB2
NOM. THK. / SCH.	0.365/40S	0.322/40S
MATERIAL	SA-403	SA-312
INSP. METHOD	SU.	SU.
CAL. BLOCK	N/A	N/A
KEY:	● SHOP WELD	✱ FIELD WELD

NO.	REVISION	ENG	CHKR	DATE
1	PER MAINTENANCE			4/87
0	PS1572 SHT. 07, REV. 5	ML	CAM	4/87

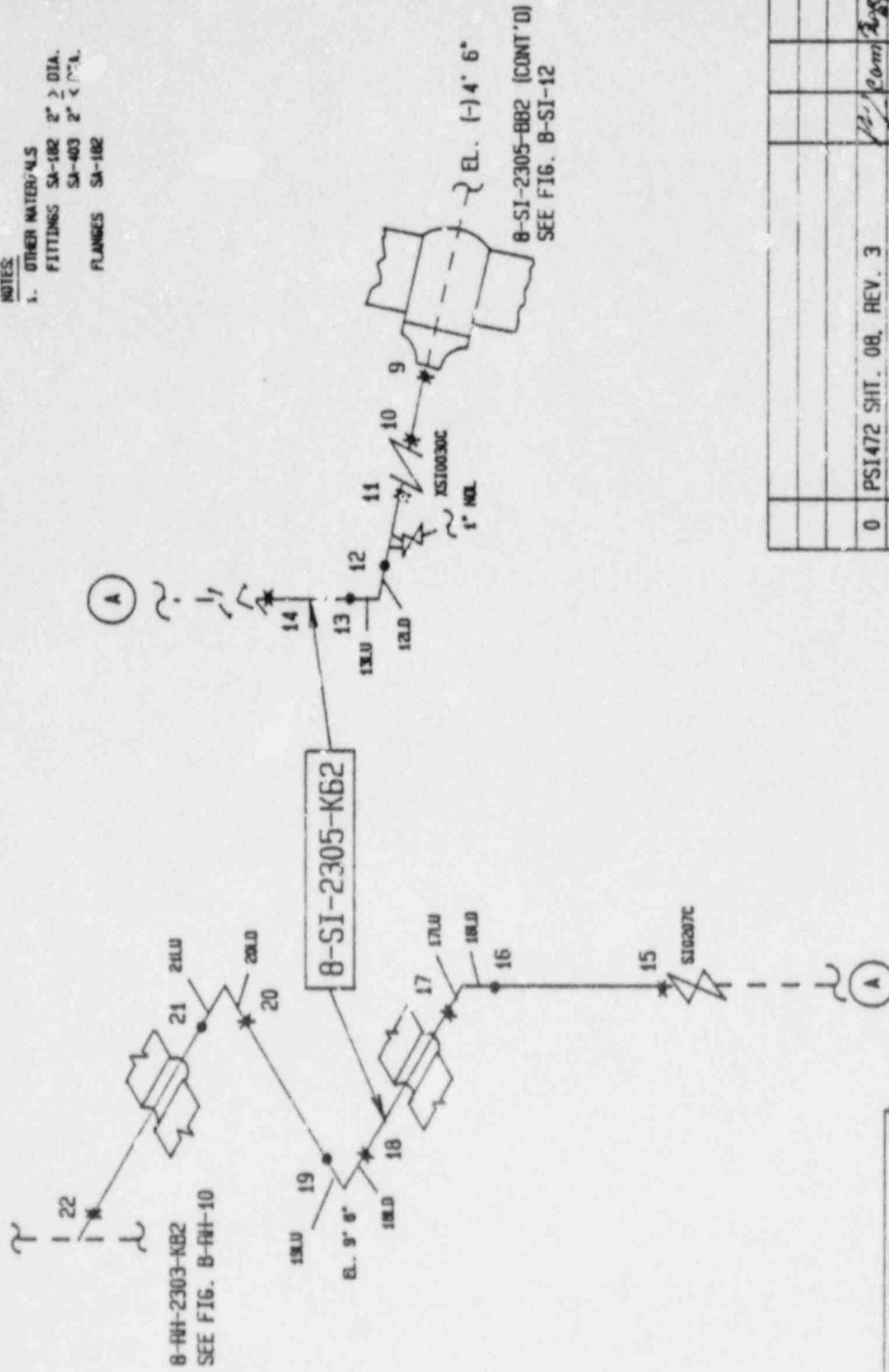
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
FIGURE	8-SI-12 REV. 1
AREA	
PGID	9F05015
SYSTEM ISO (S)	5F369PS1572 SHT. 07





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- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182



SYSTEM	SAFETY INJECTION
LINE	8-SI-2305-KB2
NOM. THK. / SCH	0.322 / 40S
MATERIAL	SA-312
INSP. METHOD	SJ
CAL. BLOCK	N/A
KEY:	• SHOP WELD    ✕ FIELD WELD

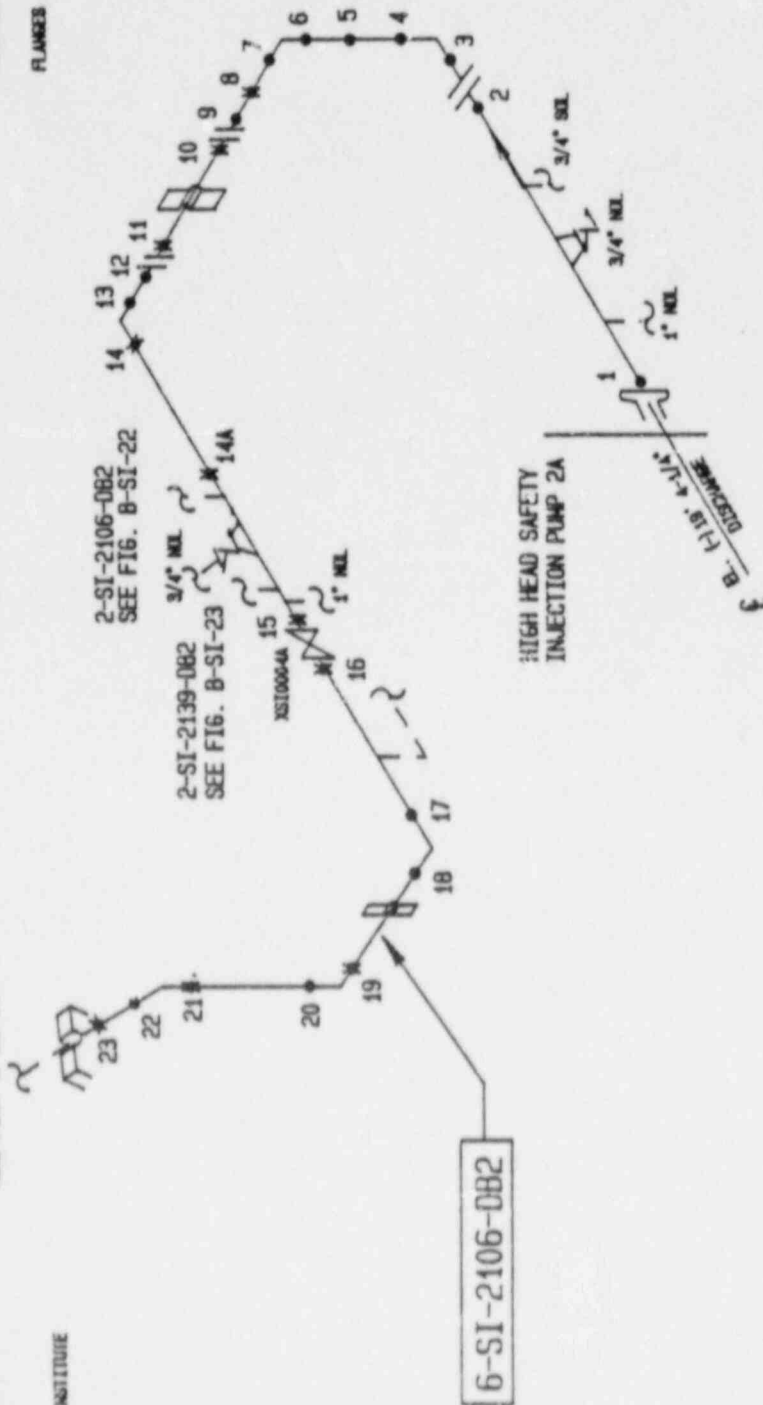
NO.	REVISION	ENG	CHKR	DATE
0	PSI472 SHT. 08, REV. 3	Per	Cam	2/85
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-SI-13	REV.	0	
AREA				
P&ID	9F05015			
SYSTEM ISO (S)	2C369PSI472 SHT. 06			



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6-SI-2106-DB2 (CONT'D)  
SEE FIG. B-SI-15

NOTES:  
1. OTHER MATERIALS  
FITTINGS SA-182 2" > DIA.  
SA-433 2" < DIA.  
FLANGES SA-182



NO.	REVISION	ENGR	CHKR	DATE
1	PER WALKDOWN	ML	CAM	4/87
0	PSI572 SHIT. 04, REV. 7	ML	CAM	4/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE B-SI-14 REV. 1				
AREA				
P&ID 9F05013				
SYSTEM ISO (S) 2F369PSI572 SHIT. 05				

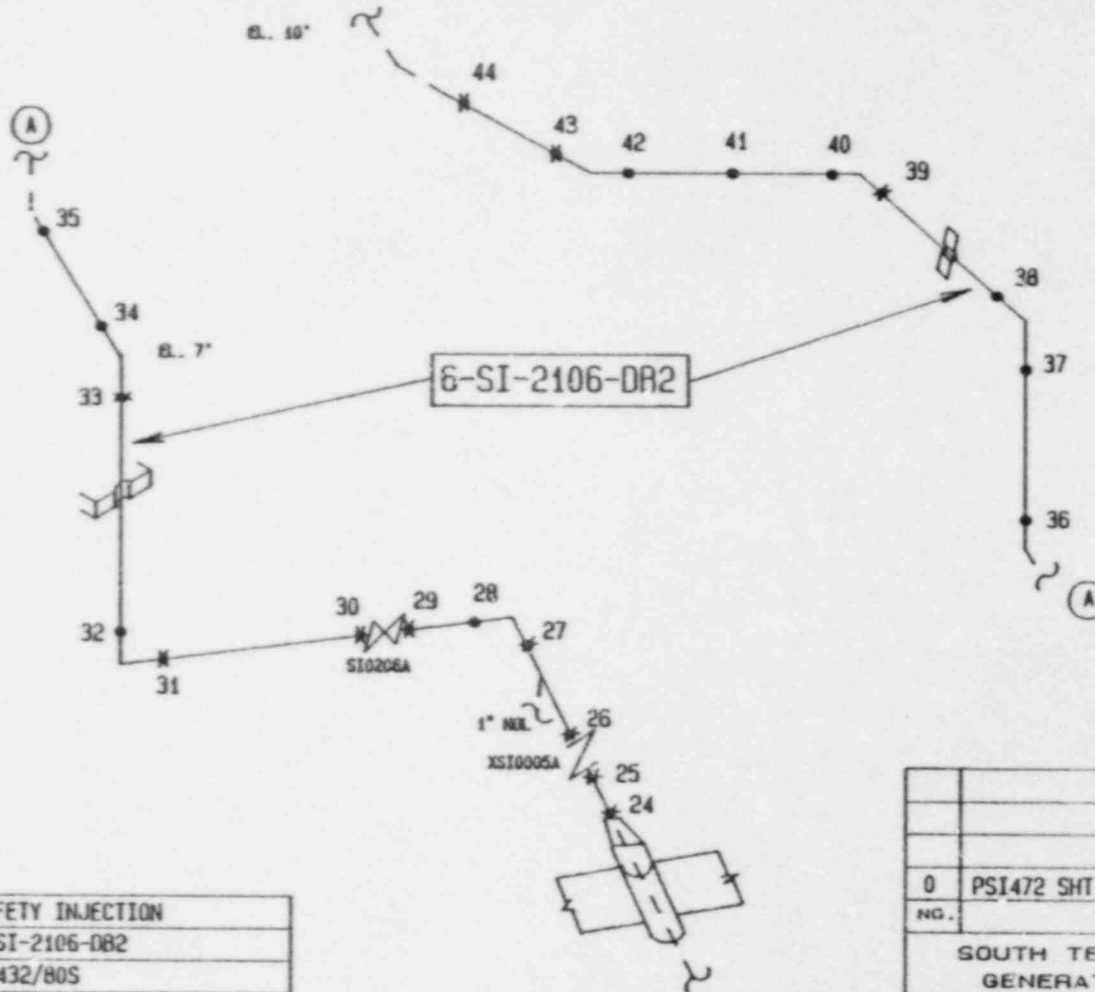
SYSTEM	SAFETY INJECTION
LINE	6-SI-2106-DB2
NOM. THK./SCH.	0.432/80S
MATERIAL	SA-312
INSP. METHOD	VOL./SU.
CAL. BLOCK	SS-23
KEY:	● SHOP WELD ✕ FIELD WELD



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6-SI-2106-DB2 (CONT'D)  
SEE FIG. B-SI-16

NOTES:  
1. OTHER MATERIALS  
FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-182



6-SI-2106-DB2 (CONT'D)  
SEE FIG. B-SI-14

SYSTEM	SAFETY INJECTION
LINE	6-SI-2106-DB2
NOM. THK. /SCH.	0.432/80S
MATERIAL	SA-312
INSP. METHOD	VOL./SU.
CAL. BLOCK	SS-23
KEY:	• SHOP WELD    ✕ FIELD WELD

0	PSI472 SHT. 06, REV. 6	<i>Cam</i>	<i>12/86</i>
NG.	REVISION	ENG	CKR DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	B-SI-15	REV.	0
AREA			
P&ID	9F05013		
SYSTEM ISO (S)	2C369PSI472 SHT. 06		

G-72



SOUTHWEST RESEARCH INSTITUTE

NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-102 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-102



6-SI-2106-DB2 (CONT'D)  
 SEE FIG. 8-SI-15

SYSTEM	SAFETY INJECTION	
LINE	6-SI-2106-DB2, -2109-DB2	6-SI-2110-BB2
NOM. THK. /SCH.	0.432/805 & 0.719/160	0.719/160
MATERIAL	SA-312 & SA-376	SA-376
INSP. METHOD	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-23 & SS-9	SS-9
KEY:	● SHOP WELD	✕ FIELD WELD

NO.	REVISION	ENG	CHKR	DATE
2	CORRECTION	ML	CAM	4/87
0	PSI472 SHT. 01, REV. 7			

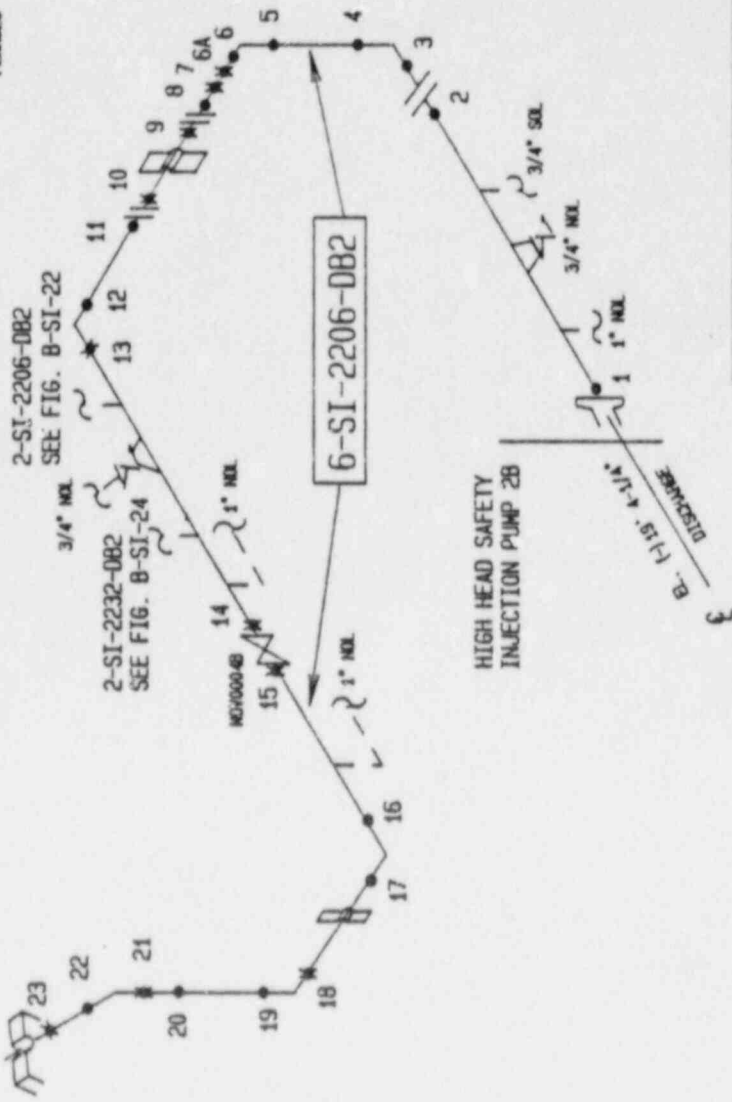
SOUTH TEXAS PROJECT ELECTRIC  
 GENERATING STATION UNIT 2  
 FIGURE 8-SI-16 REV. 2  
 AREA  
 P&ID 9F05013  
 SYSTEM ISO (S) 4C369PSI472 SHT. 01



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6-SI-2206-DB2 (CONT'D)  
SEE FIG. B-SI-18

NOTES:  
1. OTHER MATERIAL:  
FITTINGS SA-162 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-192



HIGH HEAD SAFETY  
INJECTION PUMP 2B

B. (1) 1/4\"/>

SYSTEM	SAFETY INJECTION
LINE	6-SI-2206-DB2
NOM. THK. /SCH.	0.432/805
MATERIAL	SA-312
INSP. METHOD	VOL./SU.
CAL. BLOCK	CS-23
KEY:	● SHOP WELD    ✕ FIELD WELD

NO.	REVISION	ENG	CKR	DATE
1	CORRECTIONS	ML	CAM	4/87
0	PSI572 SHIT. 05, REV. 7	ML	CAM	4/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	8-SI-17 REV. 1			
AREA				
P&ID	9F05014			
SYSTEM ISO (S)	2F369PSI572 SHIT. 05			

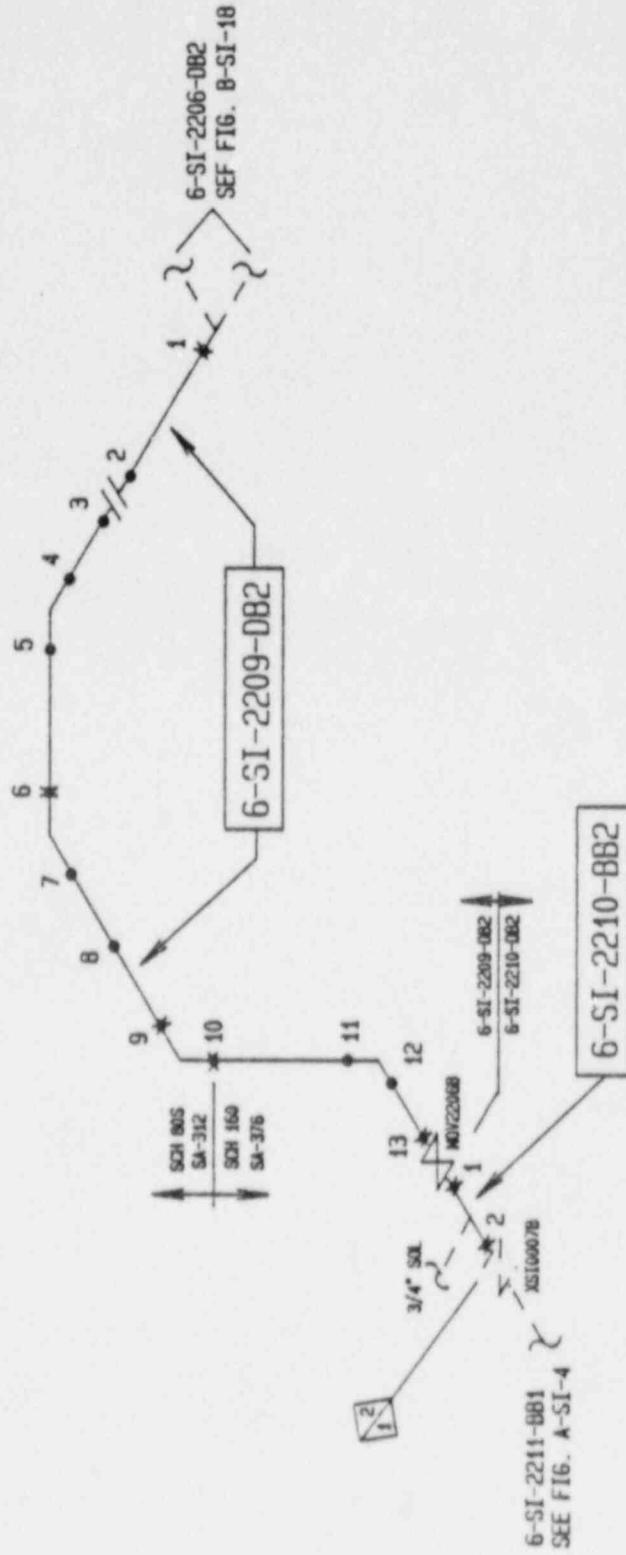




SOUTHWEST RESEARCH INSTITUTE

NOTES:

- 1. OTHER MATERIALS
- FITTINGS SA-182 2" > DIA.
- SA-403 2" < DIA.
- FLANGES SA-182



6-SI-2211-8B1  
SEE FIG. A-SI-4

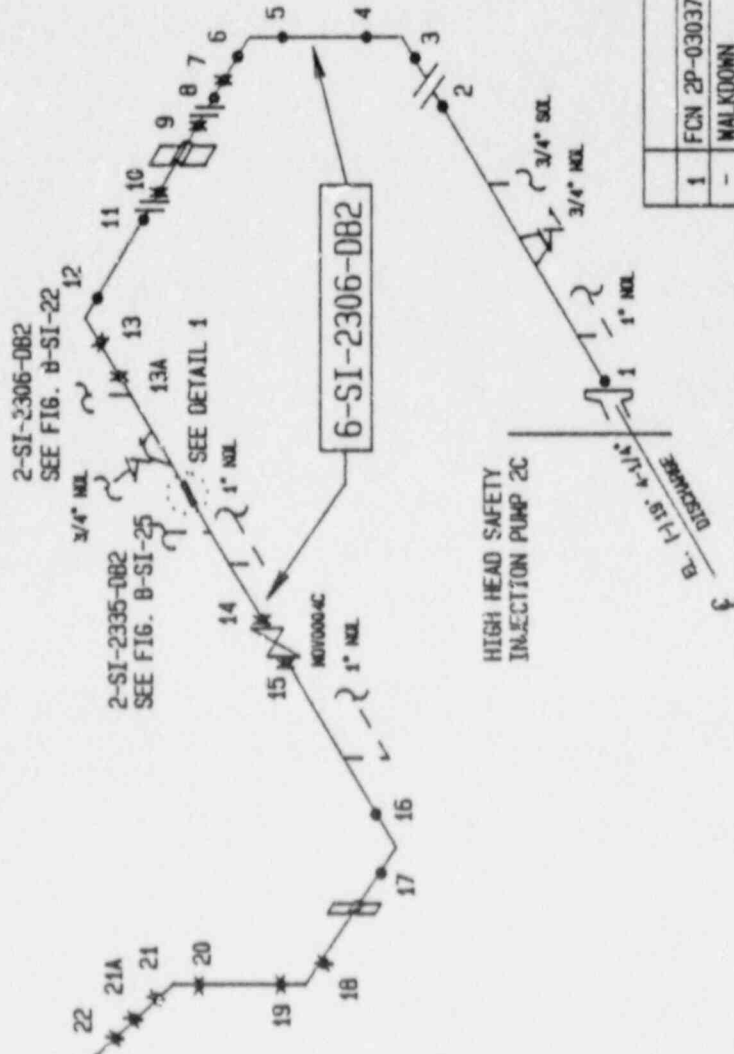
SYSTEM	SAFETY INJECTION		
LINE	6-SI-2209-DB2	6-SI-2210-8B2	
NOM. THK./SCH.	0.432/805 & 0.719/160	0.719/160	
MATERIAL	SA-312 & SA-376	SA-376	
INSP. METHOD	VOL./SU.	VOL./SU.	
CAL. BLOCK	SS-23 & SS-8	SS-8	
KEY:	● SHOP WELD	✱ FIELD WELD	

1	FCN 2P-02377	24	12/87
0	PSI472 SHT. 05, REV. 7	ML	CAM 4/87
NO.	REVISION	ENGR	CHKR DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2			
FIGURE	8-SI-19	REV.	1
AREA			
P&ID	9F05014		
SYSTEM ISO (S)	4C369PSI472	SHT.	05



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6-SI-2306-DB2 (CONT'D)  
SEE FIG. B-SI-21



DETAIL 1

NOTES:

- OTHER MATERIALS  
FITTINGS SA-182 2" > DIA.  
SA-403 2" < DIA.  
FLANGES SA-182

1	FCN 2P-03037 & 02378, & PER	2/25/87
-	WALKDOWN	-
0	PSI572 SHT. 05, REV. 7	ML CAM 4/87
NO.	REVISION	ENB CKR DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2		
FIGURE	B-SI-20	REV. 1
AREA		
P&ID	9F05015	
SYSTEM ISO (S)	2F369PSI572 SHT. 05	

SYSTEM	SAFETY INJECTION
LINE	6-SI-2306-DB2
NOM. THK./SCH.	0.432/80S
MATERIAL	SA-312
INSP. METHOD	VOL./SUJ.
CAL. BLOCK	SS-23
KEY:	● SHOP WELD ✕ FIELD WELD





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6-SI-2326-BB2

6-SI-2327-BB1  
SEE FIG. A-SI-5

- NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

6-SI-2308-BB1  
SEE FIG. A-SI-5

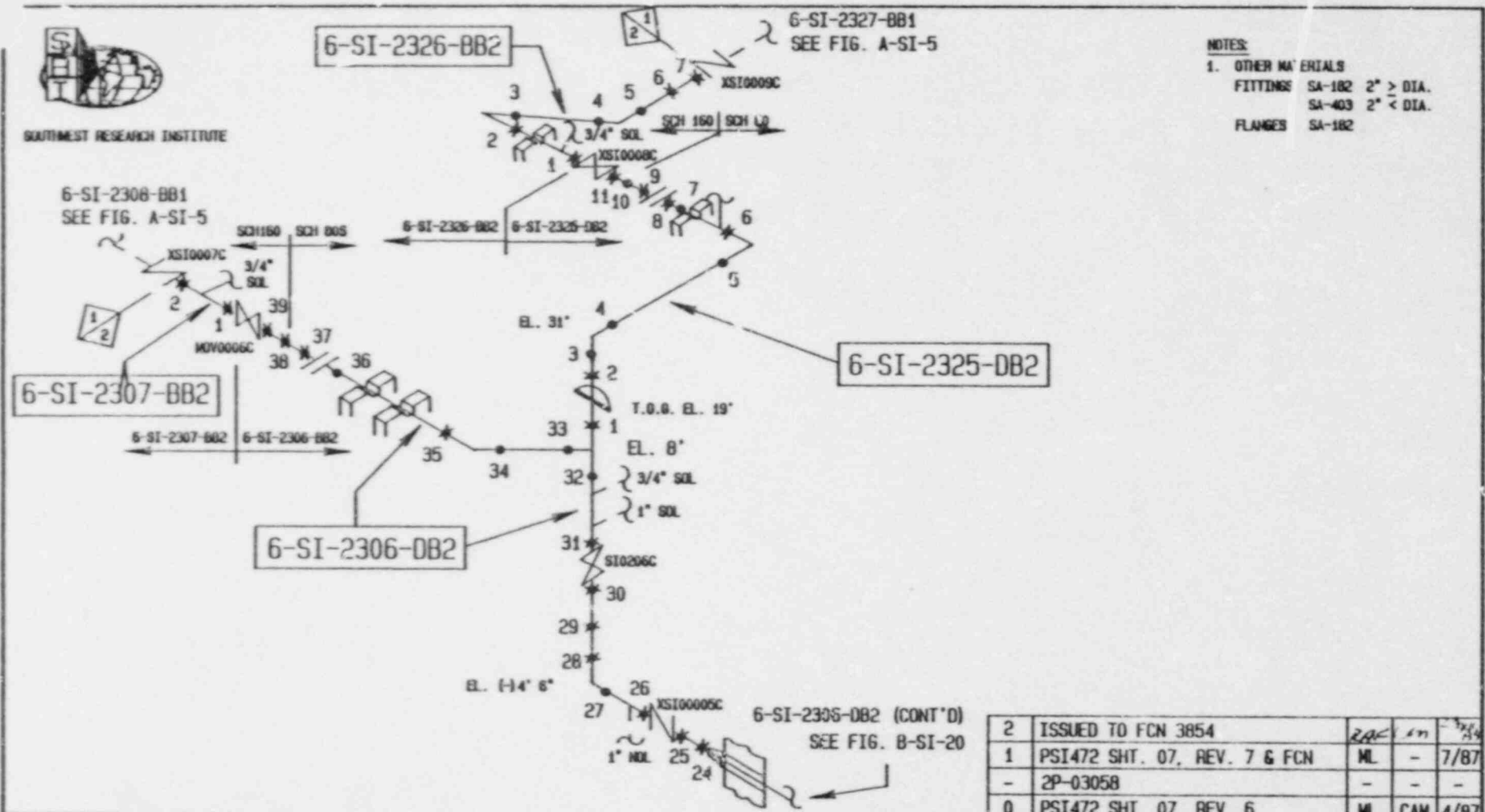
6-SI-2307-BB2

6-SI-2325-DB2

6-SI-2306-DB2

6-SI-2306-DB2 (CONT'D)  
SEE FIG. B-SI-20

G-78



2	ISSUED TO FCN 3854		
1	PSI472 SHT. 07, REV. 7 & FCN	ML	7/87
-	2P-03058	-	-
0	PSI472 SHT. 07, REV. 6	ML	CAM 4/87
NO.	REVISION	ENG	CHK'D

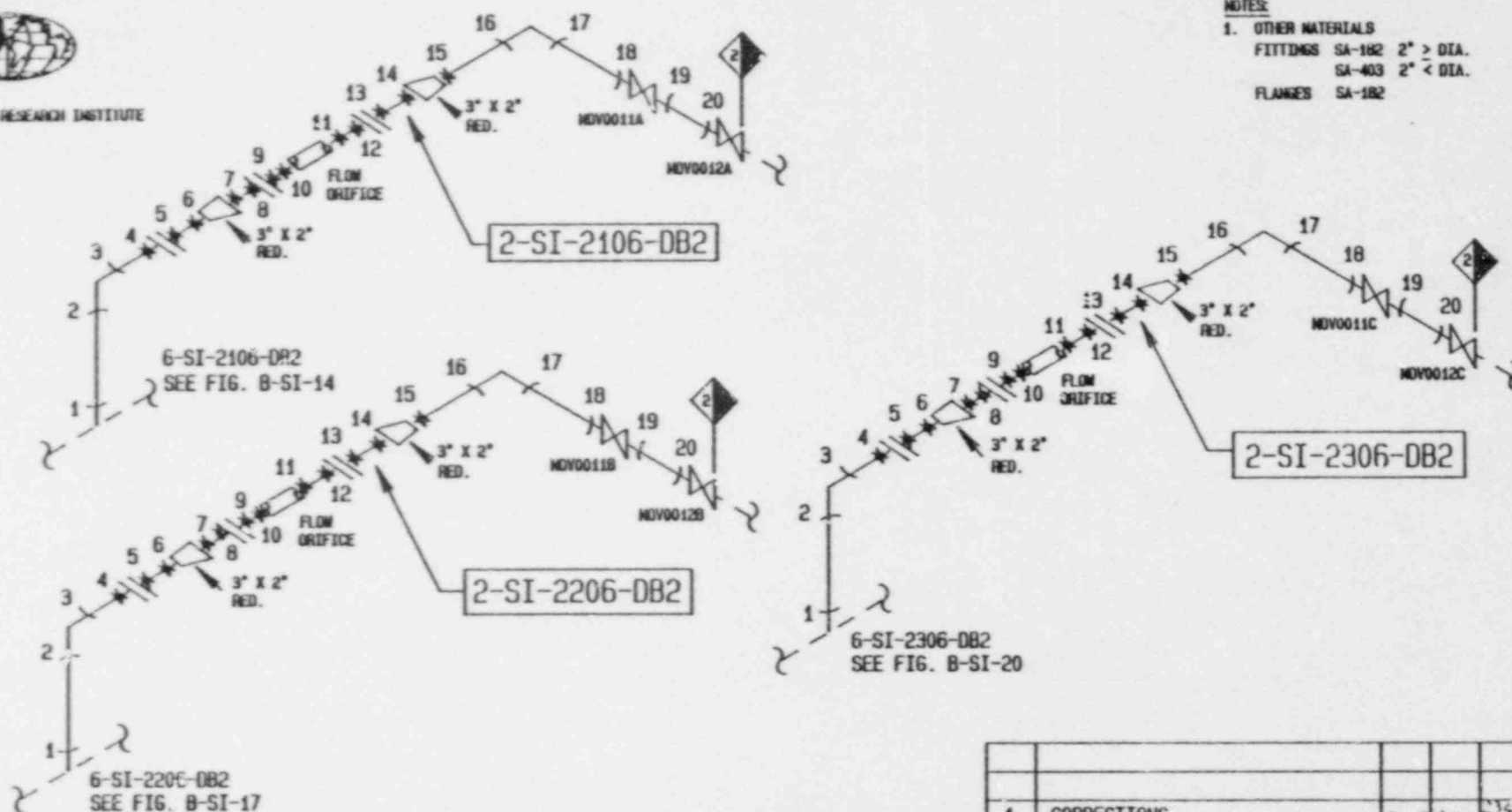
SYSTEM	SAFETY INJECTION			SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2	
LINE	6-SI-2306-DB2, -2325-DB2	6-SI-2307-BB2	6-SI-2326-BB2	FIGURE	B-SI-21 REV. 2
NOM. THK. /SCH.	0.432/80S & 0.719/160	0.719/160	0.719/160	AREA	
MATERIAL	SA-312 & SA-376	SA-376	SA-376	P&ID	9F05015
INSP. METHOD	VOL. /SU.	VOL. /SU.	VOL. /SU.	SYSTEM ISO (S)	4C369PSI472 SHT. 07
CAL. BLOCK	SS-23 & SS-9	SS-9	SS-9		
KEY:	● SHOP WELD    ✕ FIELD WELD				



SOUTHWEST RESEARCH INSTITUTE

NOTES:

1. OTHER MATERIALS
  - FITTINGS SA-182 2" > DIA.
  - SA-403 2" < DIA.
  - FLANGES SA-182



G-79

SYSTEM	SAFETY INJECTION		
LINE	2-SI-2106-DB2	2-SI-2206-DB2	2-SI-2306-DB2
NOM. THK. /SCH	0.218/80S	0.218/80S	0.218/90S
MATERIAL	SA-312	SA-312	SA-312
INSP. METHOD	VOL./SU.	VOL./SU.	VOL./SU.
CAL. BLOCK	SS-22	SS-22	SS-22
KEY:	• SHOP WELD	✱ FIELD WELD	) SOCKET WELD

1	CORRECTIONS			
0	PSI572 SHT. A01, REV. 7	ML	CAM	4/87
NO.	REVISION	ENG	CKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-SI-22	REV.	1	
AREA				
P&ID	9F05013, 9F05014, 9F05015			
SYSTEM ISO (S)	5F369PSI572 SHT. A01			



SOUTHWEST RESEARCH INSTITUTE

NOTES:

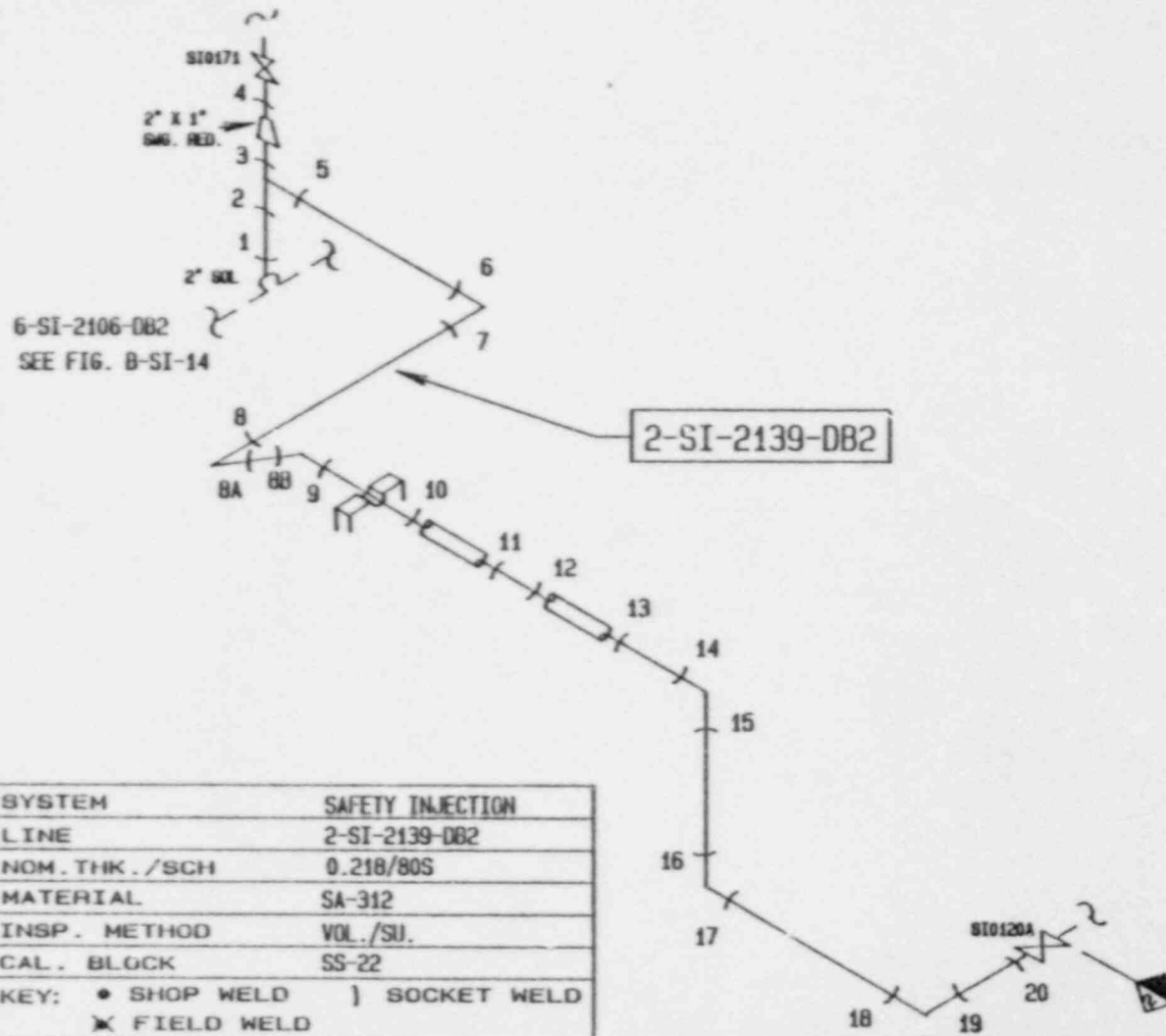
1. OTHER MATERIALS

FITTINGS SA-182 2" > DIA.

SA-403 2" < DIA.

FLANGES SA-182

G-80



SYSTEM	SAFETY INJECTION
LINE	2-SI-2139-DB2
NOM. THK./SCH	0.218/80S
MATERIAL	SA-312
INSP. METHOD	VOL./SU.
CAL. BLOCK	SS-22
KEY:	• SHOP WELD    ) SOCKET WELD
	× FIELD WELD

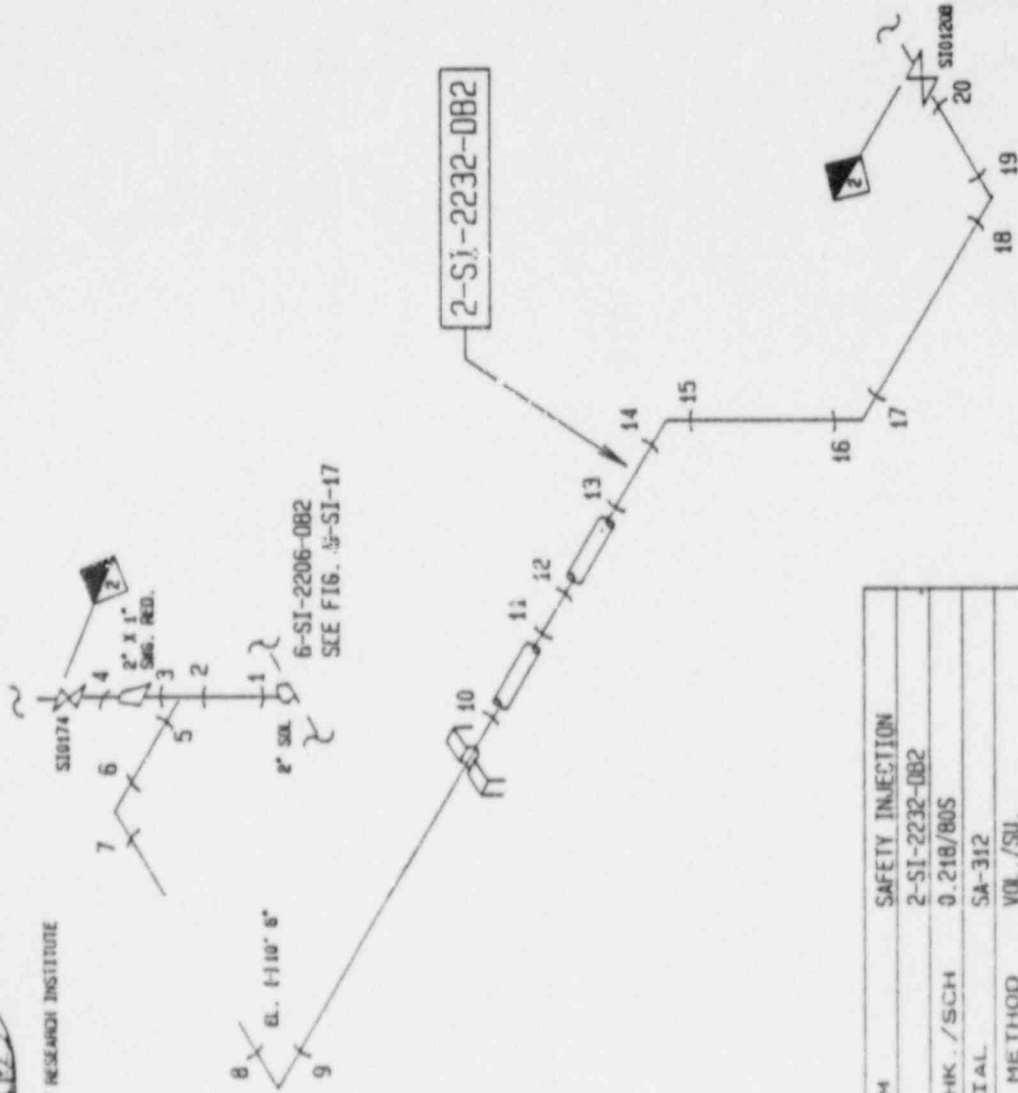
1	FCR EP-02776			
0	PS1572 SHT. A03, REV. 5			
NO.	REVISION	ENG	CHKR	DATE
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-SI-23	REV.	1	
AREA				
P&ID	9F05013			
SYSTEM ISO (S)	5F369PST1572 SHT. A03			



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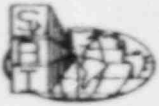
NOTES:

- OTHER MATERIALS
- FITTINGS SA-162 2" < 2 DIA.  
SA-403 2" < 01A.  
FLANGES SA-162

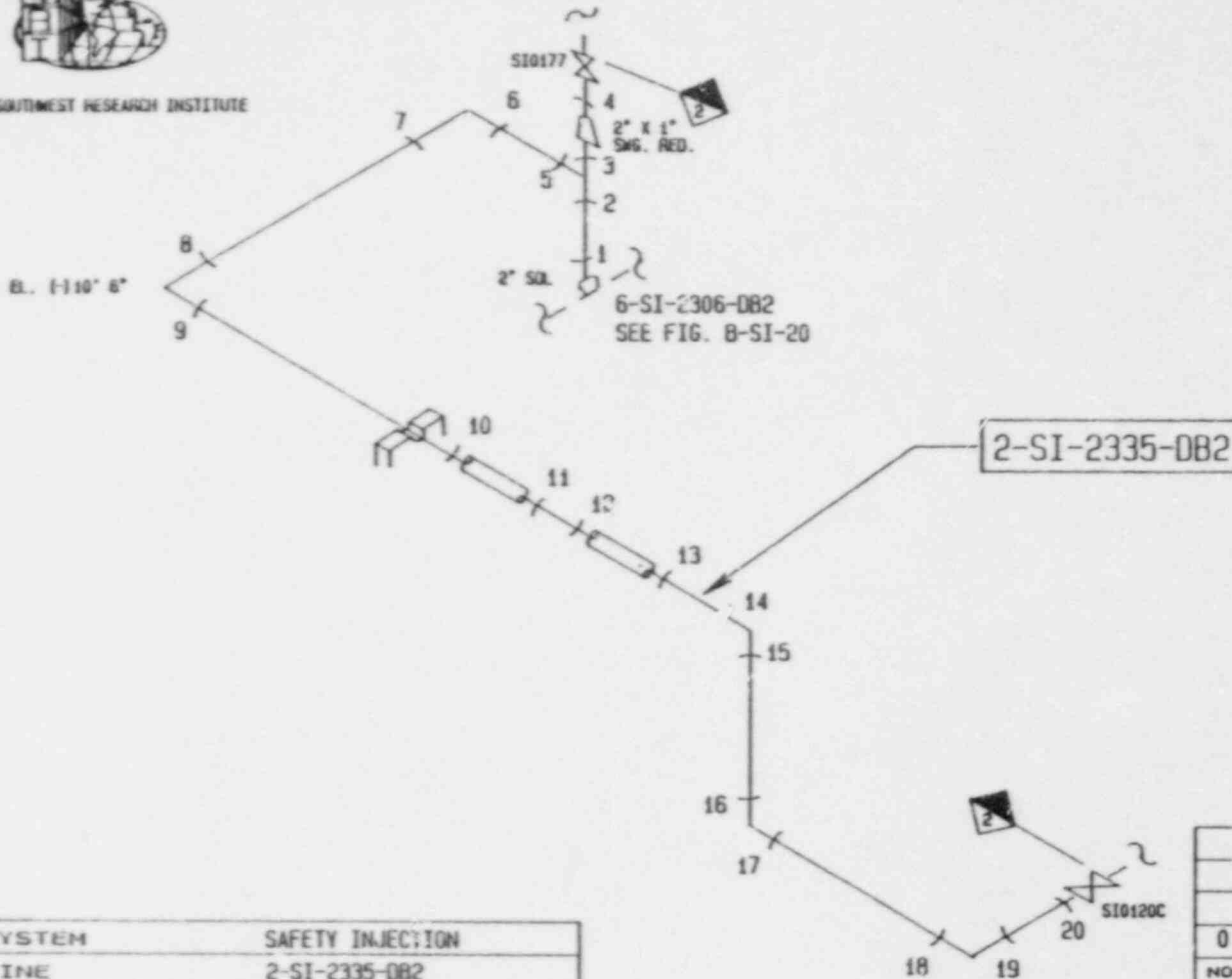


SYSTEM	SAFETY INJECTION
LINE	2-SI-2232-082
NOM. THK. /SCH	0.218/80S
MATERIAL	SA-312
INSP. METHOD	VOL. /SU.
CAL. BLOCK	SS-22
KEY:	● SHOP WELD      SOCKET WELD ✱ FIELD WELD

NO.	REVISION	ENG	CHK	DATE
0	PSI572 SHT. A04, REV. 4			7 Apr 72
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-SI-24	REV.	0	
AREA				
PGID	9F05014			
SYSTEM ISO (S)	5F369PSI572 SHT. A04			



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NOTES:  
 1. OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

G-82

SYSTEM	SAFETY INJECTION
LINE	2-SI-2335-DB2
NOM. THK. /SCH	0.218/80S
MATERIAL	SA-312
INSP. METHOD	VOL./SW.
CAL. BLOCK	SS-22
KEY:	● SHOP WELD    ) SOCKET WELD
	✱ FIELD WELD

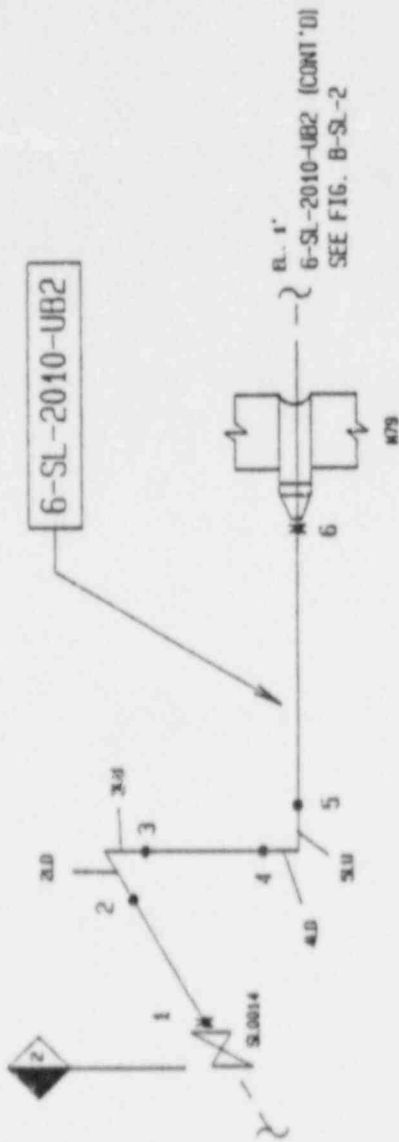
NO.	REVISION	ENG	CKR	DATE
0	PSI572 SHT. A06, REV. 2			
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-SI-25	REV.	0	
AREA				
P&ID	9F05015			
SYSTEM ISO (S)	5F369PSI572 SHT. A05			



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NOTES:

- OTHER MATERIALS  
 FITTINGS SA-182 2" > OIA.  
 SA-403 2" < OIA.  
 FLANGES SA-182



SYSTEM	5, 6, SLUDGE LANCING
LINE	6-SL-2010-UB2
NOM. THK. / SCH	0.280 / 40S
MATERIAL	SA-312
INSP. METHOD	SU.
CAL. BLOCK	N/A
KEY:	• SHOP WELD    ✕ FIELD WELD

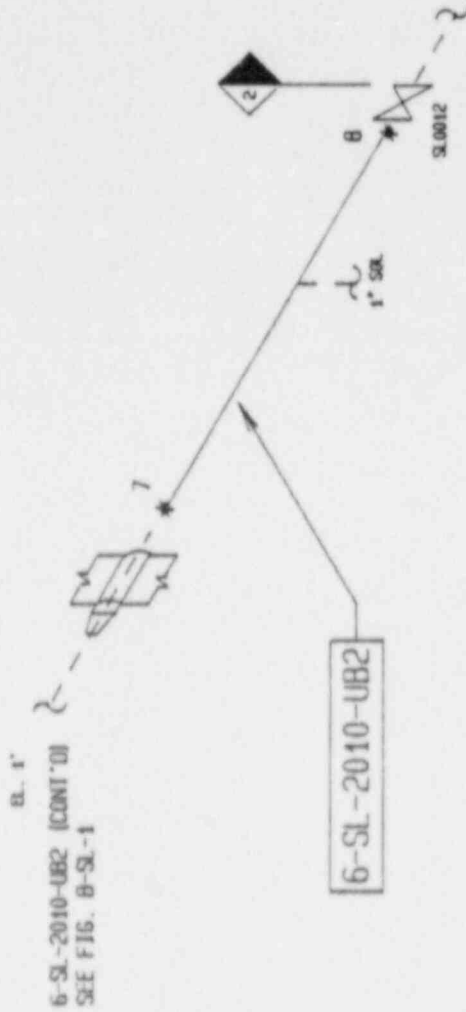
NO.	REVISION	ENG	CHK	DATE
0	PSL 484 SHT. 01, REV. 4			05/08/87
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2				
FIGURE	B-SL-1	REV.	0	
AREA				
P&ID	9F05057			
SYSTEM ISO (S)	5C369PSL484 SHT. 01			



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NOTES:

- OTHER MATERIALS  
 FITTINGS SA-182 2" > DIA.  
 SA-403 2" < DIA.  
 FLANGES SA-182

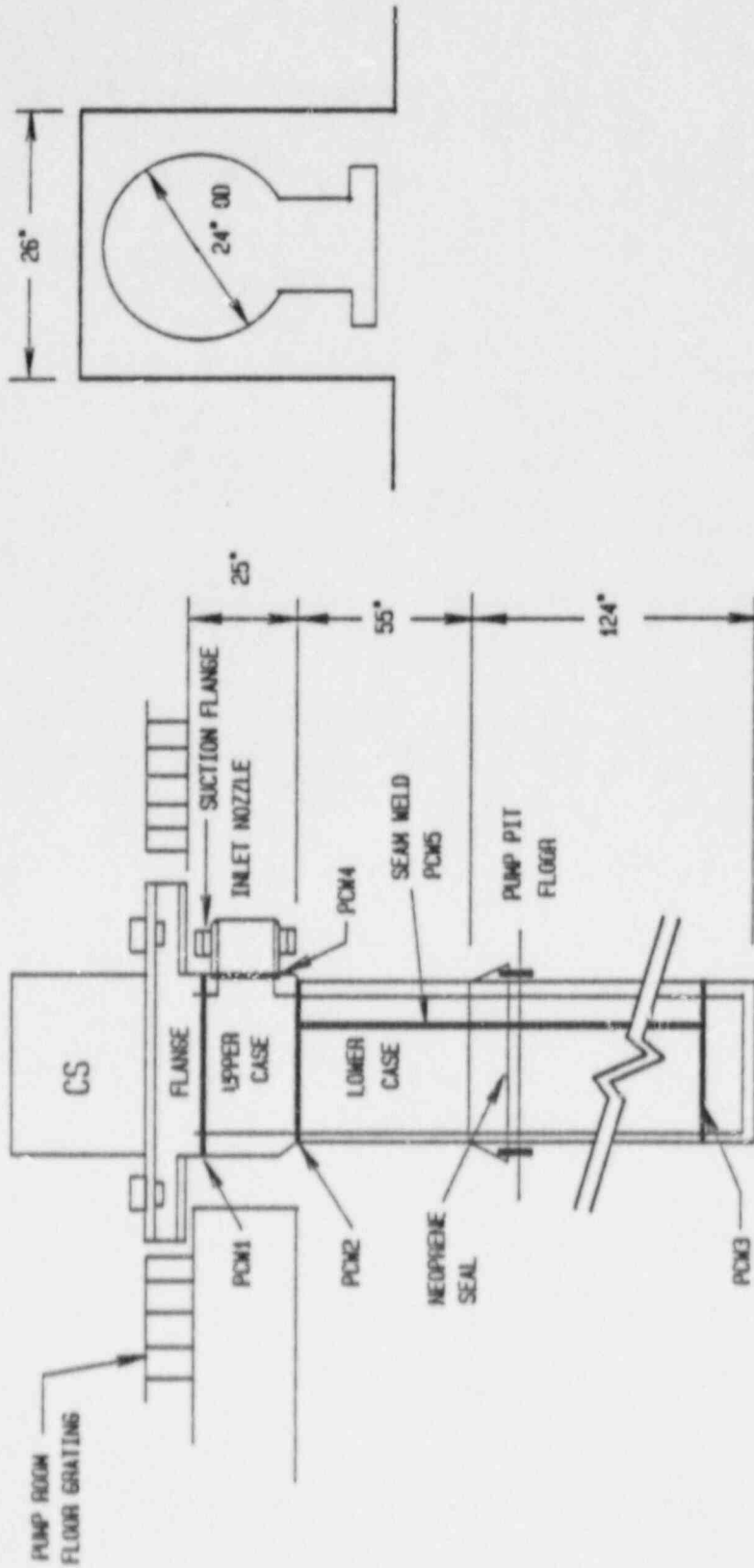


SYSTEM	S. 6. SLUDGE LANCING
LINE	6-SL-2010-UB2
NOM. THK./SCH.	0.280/40S
MATERIAL	SA-312
INSP. METHOD	SU.
CAL. BLOCK	N/A
KEY:	● SHOP WELD    ✕ FIELD WELD

NO.	0	PSL584 SHIT. 01, REV. 3	DESIGN	CHK	DATE
REVISION					
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2					
FIGURE	B-SL-2		REV.	0	
AREA					
P&ID	9F05057				
SYSTEM ISO (S)	5F369PSL584 SHIT. 01				



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CSP SERIAL NO.	NAT. ID. NO.
2A	454
2B	455
2C	456

COMPONENT:	CONTAINMENT SPRAY PUMPS 2A, 2B, 2C
INSP. METHOD:	PT
SUPPLIER:	PACIFIC PUMPS

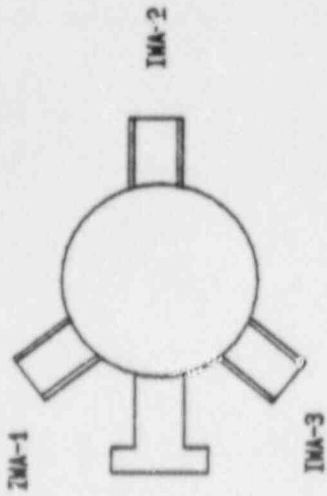
SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE 8-CSP-1 REV. 1

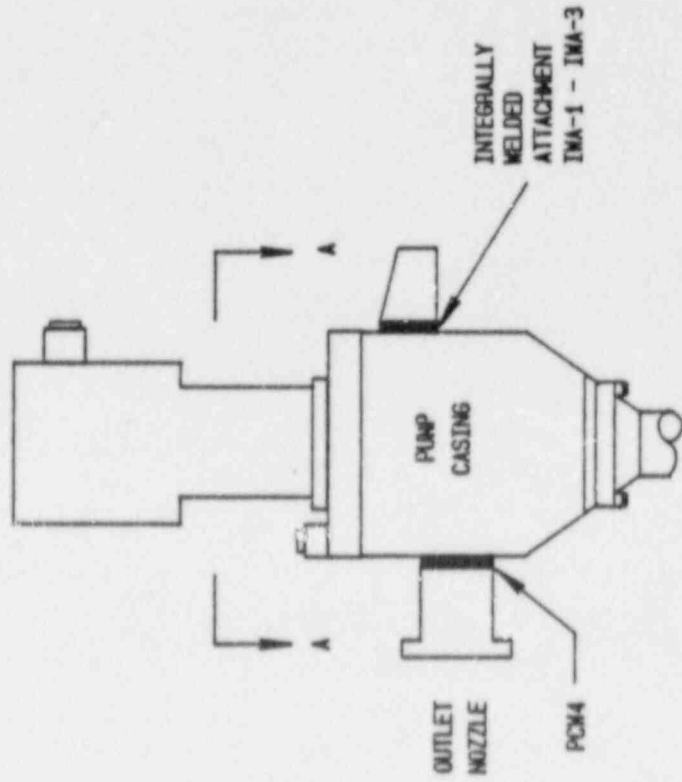




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SECTION A-A



RHP	SERIAL NO.	NAT. NO.	NO.
2A	51734	---	363
2B	51735	---	364
2C	51736	---	365

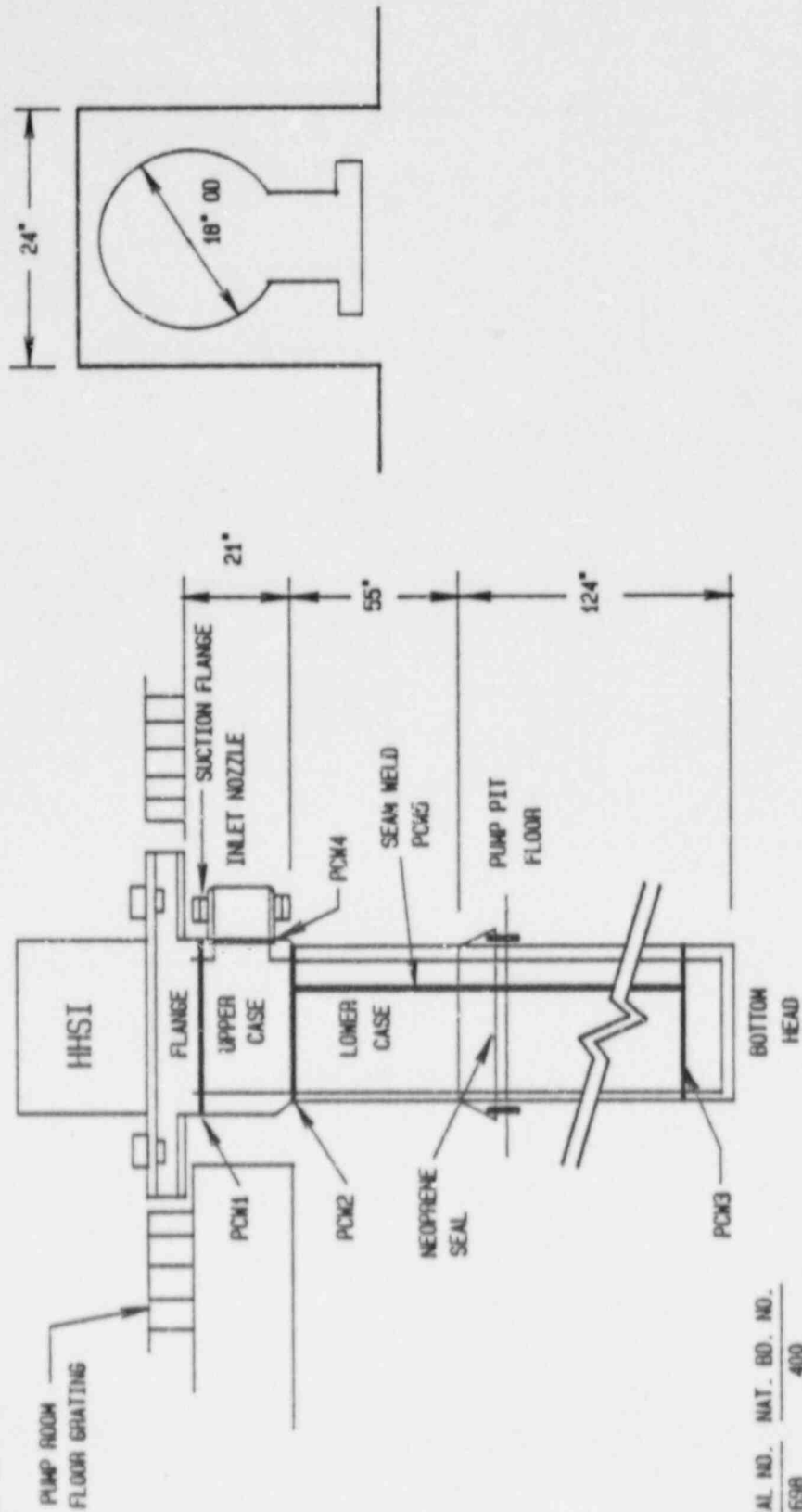
COMPONENT:	RESIDUAL HEAT REMOVAL PUMPS 2A, 2B, 2C
INSP. METHOD:	PT
SUPPLIER:	PACIFIC PUMPS

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE B-RHP-1 REV. 1



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HSIP	SERIAL NO.	NAT. BD. NO.
2A	51698	400
2B	51699	401
2C	51700	402

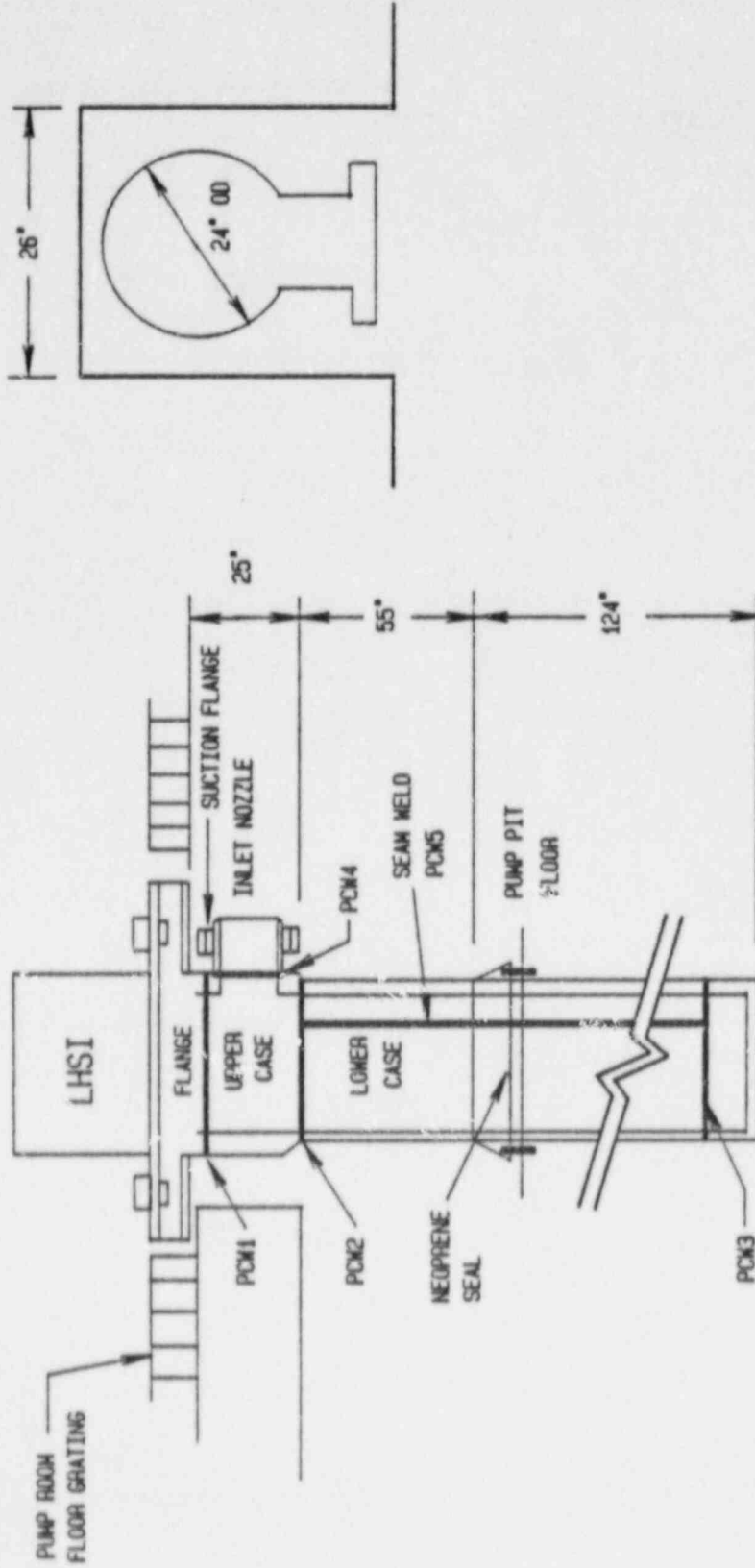
COMPONENT:	HIGH HEAD SAFETY INJECTION PUMPS 2A, 2B, 2C
INSP. METHOD:	PT
SUPPLIER:	PACIFIC PUMPS

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE 9-HSIP-1 REV. 1



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LHSIP	SERIAL NO.	NAT. BD. NO.
2A	51704	460
2B	51705	461
2C	51706	462

COMPONENT:	LOW HEAD SAFETY INJECTION PUMPS 2A, 2B, 2C
INSP. METHOD:	PT
SUPPLIER:	PACIFIC PUMPS

SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNIT 2

FIGURE B-LHSIP-1 REV. 1

APPENDIX H

CLASS 1 EXAMINATION SUMMARY TABLES

DATE: 08/18/88  
 REVISION: 0

SOUTH TEXAS GENERATING STATION UNIT 2  
 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS  
 Baseline (1987)  
 CLASS 1 COMPONENTS

PAGE: 1

REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY NUMBER	EXAMINATION IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O		REMARKS
					E O E	C M R	
							**CALIBRATION BLOCK**

CIRCUMFERENTIAL VESSEL WELDS (FIG NO A-RPV-1)

000100	RPV2-101-121 FLANGE TO UPPER SHELL	B-A B1.30	UT0L UT0W UT45 UT45T UT60 UT60T UT50/70 UT50/70T UT1.5 UT5 UT9	800-120/1	X - - X - - X - - X - - X - - X - - X - - X - - X - - X - - X - -	EXAMINATION PERFORMED FROM THE FLANGE SEAL SURFACE AND INSIDE SURFACE OF THE VESSEL. SCAN PLAN EXAMINATION NOS. 62, 63, 64, 65, 127. LIMITED UT60 DUE TO PROXIMITY OF NOZZLE INTEGRAL EXTENSIONS. SEE APPENDIX K OF THIS REPORT. **CSCL-91/CSCL-92/CSCL-93**
000200	RPV2-103-121 UPPER SHELL TO INTERMEDIATE SHELL	B-A B1.11	UT0L UT0W UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	X - - X - - - X - X - - - X - X - - X - - X - -	SCAN PLAN EXAMINATION NOS. 58, 59, 60, 61. **CSCL-91**
000300	RPV2-101-171 INTERMEDIATE SHELL TO LOWER SHELL	B-A B1.11	UT0L UT0W UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	X - - X - - X - - X - - X - - X - - - - X X - -	CORE BELT REGION WELD. SCAN PLAN EXAMINATION NOS. 30, 31, 32, 33. ONE UT50/70 CODE ALLOWABLE INDICATION. SEE CNF 011. **CSCL-91**
000400	RPV2-101-141 LOWER SHELL TO BOTTOM HEAD TORUS	B-A B1.11	UT0L UT0W UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	X - - X - - X - - X - - X - - X - - X - - X - -	SCAN PLAN EXAMINATION NOS. 21, 22, 23, 24, 25, 26, 27, 28, 29. LIMITED UT DUE TO PROXIMITY OF CORE SUPPORT AND ANTIROTATION LUGS. SEE APPENDIX K OF THIS REPORT. **CSCL-90/CSCL-91**

DATE: 08/18/88  
 REVISION: 0

SOUTH TEXAS GENERATING STATION UNIT 2  
 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS  
 Baseline (1987)  
 CLASS 1 COMPONENTS

PAGE: 2

REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O O G T R E H E O E		REMARKS
					C	M	
-----	-----	-----	-----	-----	-	-	**CALIBRATION BLOCK**

CIRCUMFERENTIAL VESSEL WELDS (FIG NO A-RPV-1)

000500	RPV2-102-151	B-A	UT0L	800-120/1	X	-	SCAN PLAN EXAMINATION NOS. 1, 2, 3, 4.
	BOTTOM HEAD TORUS TO BOTTOM	B1.21	UT0W		X	-	LIMITED UT DUE TO PROXIMITY OF IN-CORE
	HEAD DOME		UT45		X	-	INSTRUMENTATION TUBES. SEE APPENDIX K
			UT45T		X	-	OF THIS REPORT.
			UT60		X	-	**CSCL-90/CSCL-91**
			UT60T		X	-	
			UT50/70		X	-	
			UT50/70T		X	-	

CIRCUMFERENTIAL CLOSURE HEAD WELDS (FIG NO A-RPV-3)

000700	RPV2-101-101	B-A	MT	300-1/33	X	-	ONE UT0L CODE ALLOWABLE INDICATION. SEE
	CLOSURE HEAD TORUS TO FLANGE	B1.40	UT0L	800-105/2	-	X	CNF 042. LIMITED UT FROM THE FLANGE
			UT0W		X	-	SIDE DUE TO FLANGE CONFIGURATION. SEE
			UT45		-	X	APPENDIX K OF THIS REPORT.
			UT45T		X	-	**CSCL-92**
			UT60		X	-	
			UT60T		X	-	

000700	RPV2-103-101	B-A	UT0L	800-105/2	X	-	TWO UT45 CODE ALLOWABLE INDICATIONS.
	CLOSURE HEAD DOME TO CLOSURE	B1.21	UT0W		X	-	SEE CNF 043. LIMITED UT DUE TO
	HEAD TORUS		UT45		-	X	PROXIMITY OF LIFTING LUGS AND INSULATION
			UT45T		X	-	SUPPORT RING. SEE APPENDIX K OF THIS
			UT60		-	X	REPORT.
			UT60T		X	-	**CSCL-90**

LONGITUDINAL VESSEL WELDS (FIG NO A-RPV-1)

000800	RPV2-101-122A	B-A	UT0L	800-120/1	X	-	SCAN PLAN EXAMINATION NOS. 66, 67, 68,
	UPPER SHELL AT 42 DEG	B1.12	UT0W		X	-	69. ONE UT50/70 CODE ALLOWABLE
			UT45		X	-	INDICATION. SEE CNF 012. LIMITED UT
			UT45T		-	X	DUE TO PROXIMITY OF ADJACENT NOZZLES.
			UT60		X	-	SEE APPENDIX K OF THIS REPORT.
			UT60T		-	X	**CSCL-91/CSCL-92**
			UT50/70		-	X	
			UT50/70T		X	-	

DATE: 08/18/88  
 REVISION: 0

SOUTH TEXAS GENERATING STATION UNIT 2  
 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS  
 Baseline (1987)  
 CLASS 1 COMPONENTS

PAGE: 3

REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M	O	REMARKS	
					O	G		T
					C	M	R	**CALIBRATION BLOCK**

LONGITUDINAL VESSEL WELDS (FIG NO A-RPV-1)

000900	RPV2-101-122B UPPER SHELL AT 162 DEG	B-A B1.12	UT0L UT0W UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	X	-	-	SCAN PLAN EXAMINATION NOS. 70, 71, 72, 73, 74, 75, 76, 77. LIMITED UT DUE TO INTERSECTING NOZZLE. SEE APPENDIX K OF THIS REPORT.
					X	-	-	**CSCL-91/CSCL-92**
001000	RPV2-101-122C UPPER SHELL AT 282 DEG	B-A B1.12	UT0L UT0W UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	X	-	-	SCAN PLAN EXAMINATION NOS. 78, 79, 80, 81, 82. LIMITED UT DUE TO INTERSECTING NOZZLE. SEE APPENDIX K OF THIS REPORT.
					X	-	-	**CSCL-91/CSCL-92**
001100	RPV2-101-124A INTERMEDIATE SHELL AT 0 DEG	B-A B1.12	UT0L UT0W UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	-	-	X	CORE BELT REGION WELD. SCAN PLAN EXAMINATION NOS. 46, 47, 48, 57. ONE UT0L CODE ALLOWABLE INDICATION. SEE CNF 009.
					X	-	-	**CSCL-91**
001200	RPV2-101-124B INTERMEDIATE SHELL AT 120 DEG	B-A B1.12	UT0L UT0W UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	X	-	-	CORE BELT REGION WELD. SCAN PLAN EXAMINATION NOS. 49, 50, 51, 52.
					X	-	-	**CSCL-91**

DATE: 08/18/88  
 REVISION: 0

SOUTH TEXAS GENERATING STATION UNIT 2  
 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS  
 Baseline (1987)  
 CLASS 1 COMPONENTS

PAGE: 4

REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHCJ	PROCEDURE	N O			REMARKS
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**
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LONGITUDINAL VESSEL WELDS (FIG NO A-RPV-1)

001300	RPV2-101-124C INTERMEDIATE SHELL AT 240 DEG	B-A B1.12	UT0L UTOW UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	X - - - - X X - - X - - X - - X - - X - - X - -	-	-	CORE BELT REGION WELD. SCAN PLAN EXAMINATION NOS. 53, 54, 55, 56. ONE UTOW CODE ALLOWABLE INDICATION. SEE CNF 008. **CSCL-91**
001400	RPV2-101-142A LOWER SHELL AT 90 DEG	B-A B1.12	UT0L UTOW UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	X - - X - - X - - X - - X - - X - - X - - X - -	-	-	CORE BELT REGION WELD. SCAN PLAN EXAMINATION NOS. 34, 35, 36, 37. **CSCL-91**
001500	RPV2-101-142B LOWER SHELL AT 210 DEG	B-A B1.12	UT0L UTOW UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	X - - - - X X - - - X - X - - - X - X - - X - -	-	-	CORE BELT REGION WELD. SCAN PLAN EXAMINATION NOS. 38, 39, 40, 41. SEVERAL UTOW CODE ALLOWABLE INDICATIONS. SEE CNF 006. **CSCL-91**
001600	RPV2-101-142C LOWER SHELL AT 330 DEG	B-A B1.12	UT0L UTOW UT45 UT45T UT60 UT60T UT50/70 UT50/70T	800-120/1	X - - - - X X - - - X - X - - - X - X - - X - -	-	-	CORE BELT REGION WELD. SCAN PLAN EXAMINATION NOS. 42, 43, 44, 45. ONE UTOW CODE ALLOWABLE INDICATION SEE CNF 007. **CSCL-91**



REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O T R E H E O E			REMARKS
					C	M	R	
-----								**CALIBRATION BLOCK**
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MERIDIONAL BOTTOM HEAD WELDS (FIG NO A-RPV-1)

001700	RPV2-101-154A	B-A	UT0L	800-120/1	X	-	-	SCAN PLAN EXAMINATION NOS. 5, 6, 7, 20.
	BOTTOM HEAD MERIDIONAL WELD AT 0 DEG	B1.22	UT0W		X	-	-	LIMITED UT DUE TO PROXIMITY OF IN-CORE INSTRUMENTATION TUBES, CORE SUPPORT AND ANTIROTATION LUGS. SEE APPENDIX K OF THIS REPORT.
			UT45		X	-	-	**CSCL-90/CSCL-91**
			UT45T		X	-	-	
			UT60		X	-	-	
			UT60T		X	-	-	
			UT50/70		X	-	-	
			UT50/70T		X	-	-	
001800	RPV2-101-154B	B-A	UT0L	800-120/1	X	-	-	SCAN PLAN EXAMINATION NOS. 8, 9, 10, 11.
	BOTTOM HEAD MERIDIONAL WELD AT 90 DEG	B1.22	UT0W		X	-	-	LIMITED UT DUE TO PROXIMITY OF IN-CORE INSTRUMENTATION TUBES, CORE SUPPORT AND ANTIROTATION LUGS. SEE APPENDIX K OF THIS REPORT.
			UT45		X	-	-	**CSCL-90/CSCL-91**
			UT45T		X	-	-	
			UT60		X	-	-	
			UT60T		X	-	-	
			UT50/70		X	-	-	
			UT50/70T		X	-	-	
001900	RPV2-101-154C	B-A	UT0L	800-120/1	X	-	-	SCAN PLAN EXAMINATION NOS. 12, 13, 14, 15. LIMITED UT DUE TO PROXIMITY OF IN-CORE INSTRUMENTATION TUBES, CORE SUPPORT AND ANTIROTATION LUGS. SEE APPENDIX K OF THIS REPORT.
	BOTTOM HEAD MERIDIONAL WELD AT 180 DEG	B1.22	UT0W		X	-	-	**CSCL-90/CSCL-91**
			UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	
			UT60T		X	-	-	
			UT50/70		X	-	-	
			UT50/70T		X	-	-	
002000	RPV2-101-154D	B-A	UT0L	800-120/1	X	-	-	SCAN PLAN EXAMINATION NOS. 16, 17, 18, 19. LIMITED UT DUE TO PROXIMITY OF IN-CORE INSTRUMENTATION TUBES, CORE SUPPORT AND ANTIROTATION LUGS. SEE APPENDIX K OF THIS REPORT.
	BOTTOM HEAD MERIDIONAL WELD AT 270 DEG	B1.22	UT0W		X	-	-	**CSCL-90/CSCL-91**
			UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	
			UT60T		X	-	-	
			UT50/70		X	-	-	
			UT50/70T		X	-	-	

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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	ME/HOD	PROCEDURE	R	E	H	
					E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**

MERIDIONAL CLOSURE HEAD WELDS (FIG NO A-RPV-3)

002100	RPV2-101-104A	B-A	UTOL	800-105/2	-	-	X	DUE TO VARIATION OF WELD THCKNESS ALONG
	CLOSURE HEAD MERIDIONAL WELD	81.22	UTOW		X	-	-	THE WELD, TWO CALIBRATION BLOCKS WERE
	AT 0 DEG		UT45		X	-	-	UTILIZED. ONE UTOL CODE ALLOWABLE
			UT45T		X	-	-	INDICATION. SEE CNF 044.
			UT60		X	-	-	**CSCL-90/CSCL-91**
			UT60T		X	-	-	
002200	RPV2-101-104B	B-A	UTOL	800-105/2	X	-	-	DUE TO VARIATION OF WELD THICKNESS ALONG
	CLOSURE HEAD MERIDIONAL WELD	81.22	UTOW		X	-	-	THE WELD, TWO CALIBRATION BLOCKS WERE
	AT 90 DEG		UT45		X	-	-	UTILIZED.
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-90/CSCL-91**
			UT60T		X	-	-	
002300	RPV2-101-104C	B-A	UTOL	800-105/2	X	-	-	DUE TO VARIATION OF WELD THICKNESS ALONG
	CLOSURE HEAD MERIDIONAL WELD	81.22	UTOW		X	-	-	THE WELD, TWO CALIBRATION BLOCKS WERE
	AT 180 DEG		UT45		X	-	-	UTILIZED.
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-90/CSCL-91**
			UT60T		X	-	-	
002400	RPV2-101-104D	B-A	UTOL	800-105/2	-	-	-	DUE TO VARIATION OF WELD THICKNESS ALONG
	CLOSURE HEAD MERIDIONAL WELD	81.22	UTOW		X	-	-	THE WELD, TWO CALIBRATION BLOCKS WERE
	AT 270 DEG		UT45		X	-	-	UTILIZED.
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-90/CSCL-91**
			UT60T		X	-	-	

NOZZLE TO SHELL AND SHELL TO NOZZLE WELDS (FIG NO A-RPV-1)

002500	RPV2-107-121A	B-D	UTOL	800-120/1	X	-	-	EXAMINATION PERFORMED FROM THE NOZZLE
	LOOP A OUTLET NOZZLE AT 22 DEG 83.90'		UTOW		X	-	-	BORE AND VESSEL SHELL. SCAN PLAN
			UT45		X	-	-	EXAMINATION NOX. 83, 84, 107. LIMITED
			UT45T		X	-	-	UT DUE TO NOZZLE CONFIGURATION. SEE
			UT60T		X	-	-	APPENDIX K OF THIS REPORT.
			UT50/70T		X	-	-	**CSCL-53/CSCL-91/CSCL-92**

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REAUTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA		ASME			M	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**

NOZZLE TO SHELL AND SHELL TO NOZZLE WELDS (FIG NO A-RPV-1)

002600	RPV2-105-121A LOOP A INLET NOZZLE AT 67 DEG	B-D 83.90	UT0L UT0W UT45 UT45T UT60T UT50/70T UT6	800-120/1	X	-	-	EXAMINATION PERFORMED FROM THE NOZZLE BORE AND VESSEL SHELL. SCAN PLAN EXAMINATION NOS. 85, 86, 99. LIMITED UT DUE TO NOZZLE CONFIGURATION. SEE APPENDIX K OF THIS REPORT.
002700	RPV2-105-121B LOOP B INLET NOZZLE AT 113 DEG	B-D 83.90	UT0L UT0W UT45 UT45T UT60T UT50/70T UT6	800-120/1	X	-	-	EXAMINATION PERFORMED FROM THE NOZZLE BORE AND VESSEL SHELL. SCAN PLAN EXAMINATION NOS. 87, 88, 101. LIMITED UT DUE TO NOZZLE CONFIGURATION. SEE APPENDIX K OF THIS REPORT.
002800	RPV2-107-121B LOOP B OUTLET NOZZLE AT 158 DEG	B-D 83.90	UT0L UTC UT45 UT45T UT60T UT50/70T	800-120/1	X	-	-	EXAMINATION PERFORMED FROM THE NOZZLE BORE AND VESSEL SHELL. SCAN PLAN EXAMINATION NOS. 89, 90, 114. LIMITED UT DUE TO NOZZLE CONFIGURATION. SEE APPENDIX K OF THIS REPORT.
002900	RPV2 107-121C LOOP C OUTLET NOZZLE AT 202 DEG	B-D 83.90	UT0L UT0W UT45 UT45T UT60T UT50/70T	800-120/1	X	-	-	EXAMINATION PERFORMED FROM THE NOZZLE. SCAN PLAN EXAMINATION NOS. 91, 92, 117. LIMITED UT DUE TO NOZZLE CONFIGURATION. SEE APPENDIX K OF THIS REPORT.
003000	RPV2-105-121C LOOP C INLET NOZZLE AT 247 DEG	B-D 83.90	UT0L UT0W UT45 UT45T UT60T UT50/70T UT6	800-120/1	-	-	X	EXAMINATION PERFORMED FROM THE NOZZLE BORE AND VESSEL SHELL. SCAN PLAN EXAMINATION NOS. 93, 94, 103. ONE UT0L AND UT0W CODE ALLOWABLE INDICATION. SEE CNF 010. LIMITED UT DUE TO NOZZLE CONFIGURATION. SEE APPENDIX K OF THIS REPORT.

\*\*CSCL-53/CSCL-91/CSCL-92\*\*



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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS
.....	.....	.....	-	-	-	**CALIBRATION BLOCK**

NOZZLE INSIDE RADIUS SECTION (FIG NO A-RPV-1, 2)

003600 RPV2-W1B1R B-D UT50/70 800-120/1 X - - EXAMINATION PERFORMED FROM THE NOZZLE  
 LOOP B OUTLET NOZZLE AT 158 DEG 83.100 UT50/70T X - - BORE. SCAN PLAN EXAMINATION NOS. 115,  
 116.

\*\*CSCL-52\*\*

003700 RPV2-W1C1R B-D UT50/70 800-120/1 X - - EXAMINATION PERFORMED FROM THE NOZZLE  
 LOOP C OUTLET NOZZLE AT 202 DEG 83.100 UT50/70T X - - BORE. SCAN PLAN EXAMINATION NOS. 118,  
 119.

\*\*CSCL-52\*\*

003800 RPV2-W2C1R B-D UT50/70 800-120/1 X - - EXAMINATION PERFORMED FROM THE NOZZLE  
 LOOP C INLET NOZZLE AT 247 DEG 83.100 UT50/70T X - - BORE. SCAN PLAN EXAMINATION NOS. 104,  
 120, 121.

\*\*CSCL-52\*\*

003900 RPV2-W2D1R B-D UT50/70 800-120/1 X - - EXAMINATION PERFORMED FROM THE NOZZLE  
 LOOP D INLET NOZZLE AT 293 DEG 83.100 UT50/70T X - - BORE. SCAN PLAN EXAMINATION NOS. 106,  
 122, 123.

\*\*CSCL-52\*\*

004000 RPV2-W1D1R B-D UT50/70 800-120/1 X - - EXAMINATION PERFORMED FROM THE NOZZLE  
 LOOP D OUTLET NOZZLE AT 338 DEG 83.100 UT50/70T X - - BORE. SCAN PLAN EXAMINATION NOS. 125,  
 126.

\*\*CSCL-52\*\*

NOZZLE INTEGRAL EXTENSIONS (FIG NO A-RPV-1, 2)

004100 RPV2-W1A1E B-D UT50/70 800-120/1 X - - EXAMINATION PERFORMED FROM THE NOZZLE  
 LOOP A OUTLET NOZZLE AT 22 DEG 83.100 BORE. SCAN PLAN EXAMINATION NO. 108.

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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M	O	REMARKS
					E	R	
					C	M	**CALIBRATION BLOCK**
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NOZZLE INTEGRAL EXTENSIONS (FIG NO A-RPV-1, 2)

004200 RPV2-N1B1E B-D UT50/70 800-120/1 X - - EXAMINATION PERFORMED FROM THE NOZZLE  
 LOOP B OUTLET NOZZLE AT 158 DEG 83.100 BORE. SCAN PLAN EXAMINATION NO. 115.  
 DEG

\*\*CSCL-52\*\*

004300 RPV2-N1C1E B-D UT50/70 800-120/1 X - - EXAMINATION PERFORMED FROM THE NOZZLE  
 LOOP C OUTLET NOZZLE AT 202 DEG 83.100 BORE. SCAN PLAN EXAMINATION NO. 118.  
 DEG

\*\*CSCL-52\*\*

004400 RPV2-N1D1E B-D UT50/70 800-120/1 X - - EXAMINATION PERFORMED FROM THE NOZZLE  
 LOOP D OUTLET NOZZLE AT 338 DEG 83.100 BORE. SCAN PLAN EXAMINATION NO. 125.  
 DEG

\*\*CSCL-52\*\*

NOZZLE TO SAFE-END AND SAFE-END TO NOZZLE WELDS (FIG NO A-RPV-1, 2)

004500 RPV2-N1A5E B-F PT 200-1/69 X - - UT PERFORMED FROM THE ID SURFACE. SCAN  
 LOOP A OUTLET NOZZLE AT 22 DEG 85.10 UTOL 800-111/2 X - - PLAN EXAMINATION NOS. 128, 129, 144.  
 UT50/70 X - -  
 UT50/70T X - -

\*\*MJ-44\*\*

004600 RPV2-N2A5E B-F PT 200-1/69 X - - UT PERFORMED FROM THE ID SURFACE. SCAN  
 LOOP A INLET NOZZLE AT 67 DEG 85.10 UTOL 800-111/2 X - - PLAN EXAMINATION NOS. 130, 131, 145.  
 UT50/70 X - -  
 UT50/70T X - -

\*\*MJ-44\*\*

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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E O E		REMARKS	
-----		-----	-----	-----	C M R		**CALIBRATION BLOCK**	
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NOZZLE TO SAFE-END AND SAFE-END TO NOZZLE WELDS (FIG NO A-RPV-1, 2)

004700	RPV2-N2B5E LOOP B INLET NOZZLE AT 113 DEG	B-F 85.10	PT UTOL UT50/70 UT50/70T	200-1/69 800-111/2	X - - X - - X - - X - -	- - - -	UT PERFORMED FROM THE ID SURFACE. SCAN PLAN EXAMINATION NOS. 132, 133, 146.	**MJ-44**
004800	RPV2-N1B5E LOOP B OUTLET NOZZLE AT 158 DEG	B-F 85.10	PT UTOL UT50/70 UT50/70T	200-1/69 800-111/2	X - - X - - X - - X - -	- - - -	UT PERFORMED FROM THE ID SURFACE. SCAN PLAN EXAMINATION NOS. 134, 135, 147.	**MJ-44**
004900	RPV2-N1C5E LOOP C OUTLET NOZZLE AT 202 DEG	B-F 85.10	PT UTOL UT50/70 UT50/70T	200-1/69 800-111/2	X - - X - - - X - X - -	- - - -	UT PERFORMED FROM THE ID SURFACE. SCAN PLAN EXAMINATION NOS. 136, 137, 148.	**MJ-44**
005000	RPV2-N2C5E LOOP C INLET NOZZLE AT 247 DEG	B-F 85.10	PT UTOL UT50/70 UT50/70T	200-1/69 800-111/2	X - - X - - X - - X - -	- - - -	UT PERFORMED FROM THE ID SURFACE. SCAN PLAN EXAMINATION NOS. 138, 139, 149.	**MJ-44**
005100	RPV2-N2D5E LOOP D INLET NOZZLE AT 293 DEG	B-F 85.10	PT UTOL UT50/70 UT50/70T	200-1/69 800-111/2	X - - X - - X - - X - -	- - - -	UT PERFORMED FROM THE ID SURFACE. SCAN PLAN EXAMINATION NOS. 140, 141, 150.	**MJ-44**

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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA				N	O	REMARKS	
NUMBER	IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	C	M	R
-----							
**CALIBRATION BLOCK**							
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NOZZLE TO SAFE-END AND SAFE-END TO NOZZLE WELDS (FIG NO A-RPV-1, 2)

005200	RPV2-N1DSE	B-F	PT	200-1/69	X	-	-	UT PERFORMED FROM THE ID SURFACE. SCAN
	LOOP D OUTLET NOZZLE AT 338	B5.10	UTOL	800-111/2	X	-	-	PLAN EXAMINATION NOS. 142, 143, 151.
	DEG		UT50/70		X	-	-	
			UT50/70T		X	-	-	
								**MU-44**

CLOSURE HEAD BOLTING (FIG NO A-RPV-1, 3)

005300	CLOSURE NUTS	B-G-1	MT	300-2/41	-	-	X	EXAMINED NOS. 1B-31B, 34B-36B,
		B6.10	UT0	600-19/34	X	-	-	32A,33A,38A. LIMITED UT FROM THE OD
			UT43		-	-	X	SURFACE DUE TO SPANNER WRENCH SLOTS.
								ONE LINEAR MT INDICATION ON NUT 11B AND
								TWO UT43 INDICATIONS ON NUT 4B. SEE
								CNF'S 054 AND 055. EVALUATED AND
								ACCEPTED "AS IS" BY HL&P.
								**CS-4C**
005400	CLOSURE STUDS	B-G-1	PT	200-5/2	X	-	-	EXAMINED NOS. 1B-36B, 38B. UT VOLUME IS
		B6.30	MT	300-2/41	-	-	X	IN ACCORDANCE WITH CODE CASE N-307-1.
			UT45	800-22/2	X	-	-	ONE LINEAR MT INDICATION ON STUD 10B.
			UT60		X	-	-	SEE CNF 051. REEXAMINATION REVEALED NO
			UT88		X	-	-	RECORDABLE INDICATIONS. LIMITED UT OF
								ROTO-LOK LUGS DUE TO STUD CONFIGURATION.
								**CS-45A/CS-45B**
005500	VESSEL FLANGE THREADS	B-G-1	UT0	600-5/42	X	-	-	EXAMINED NOS. 1 THROUGH 36.
		B6.40						
								**CS-47**
005600	CLOSURE HEAD WASHERS	B-G-1	VT	900-7/11	-	-	X	EXAMINED NOS. 1B-30B,31A
		B6.50						-33A,34B,35A,36B,38A. VISUAL
								INDICATIONS ON WASHER NOS. 32A, 33A,
								38A. SEE CNF 053. EVALUATED AND
								ACCEPTED "AS IS" BY HL&P PERSONNEL.



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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	M O G T R E H E O E R E M A R K S		
			C M R	**CALIBRATION BLOCK**	

CLOSURE HEAD BOLTING (FIG NO A-RPV-1, 3)

005700	VESSEL FLANGE BUSHINGS	B-G-1 B6.50	VT UTO	900-7/11 600-5/42	X - - X - -	EXAMINED NOS. 1A THROUGH 36A. UTO PERFORMED AS A SUPPLEMENTAL EXAMINATION AT THE REQUEST OF HL&P. **CS-47**
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VESSEL INTERIOR (FIG NO A-RPV-1, 2)

006200	VESSEL INTERIOR	B-N-1 B13.10	VT	900-7/11	- - X X - -	EXAMINED AREAS ABOVE AND BELOW REACTOR CORE THAT WILL BE ACCESSIBLE DURING NORMAL REFUELING OUTAGES. VT INDICATIONS ON IRS OF INLET NOZZLE N28. SEE CNF 013. REEXAMINATION AFTER SURFACE CONDITIONING REVEALED NO RECORDABLE INDICATIONS.
006300	VESSEL INTERIOR ATTACHMENTS WITHIN BELTLINE REGION	B-N-2 B13.30		SEE REMARKS		THERE ARE NO INTERIOR ATTACHMENTS IN THE BELTLINE REGION OF THE VESSEL.
006400	VESSEL INTERIOR ATTACHMENTS BEYOND BELTLINE REGION	B-N-2 B13.31	VT	900-7/11	X - -	EXAMINED THE ACCESSIBLE WELDS BEYOND THE BELTLINE REGION. THIS INCLUDED THE SIX CORE SUPPORT LUGS SHOWN IN FIGURE A-RPV-1.

VESSEL CORE SUPPORT STRUCTURE (FIG NO A-RPV-5)

006502	ITEM NO. 1 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X - -	EXAMINED ACCESSIBLE THERMOCOUPLE CLAMPS INSIDE THE THERMOCOUPLE COLUMNS.
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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA	ASME				N	O	
NUMBER IDENTIFICATION	SEC. XI	CATGY	EXAM	PROCEDURE	O	G	T
	ITEM NO	METHOD			R	E	H
					E	C	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**

VESSEL CORE SUPPORT STRUCTURE (FIG NO A-RPV-5)

006504	ITEM NO. 2 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE CONDUIT SWAGLOCK FITTINGS, BANDINGS, AND TAB LOCKS.
006506	ITEM NO. 3 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE CLAMPS ON MOUNTING BRACKETS.

VESSEL CORE SUPPORT STRUCTURE (FIG NO A-RPV-3)

006508	ITEM NO. 4 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE CONDUIT CLAMP WELDS.
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VESSEL CORE SUPPORT STRUCTURE (FIG NO A-RPV-5)

006510	ITEM NO. 5 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE UPPER SUPPORT COLUMN NUT TO EXTENSION WELDS.
006512	ITEM NO. 6 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE CONDUIT SUPPORT BRACKET WELDS.
006514	ITEM NO. 7 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE HOLD-DOWN SPRING INTERFACE SURFACE.
006516	ITEM NO. 8 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE WELDS ON SUPPORT COLUMN LOWER NOZZLES.

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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E O E		REMARKS	
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					- - -		-----	

VESSEL CORE SUPPORT STRUCTURE (FIG NO A-RPV-5)

006518	ITEM NO. 9 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE UPPER CORE PLACE INSERTS.
006520	ITEM NO. 10 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE THERMOCOUPLE COLUMN AND GUIDE TUBE LOCKING DEVICES.
006522	ITEM NO. 11 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE SUPPORT COLUMN AND CORE INSERT SCREW LOCKING DEVICES.
006523	ITEM NO. 12 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE UPPER SUPPORT SKIRT TO PLATE GIRTH WELD.
006524	ITEM NO. 13 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE UPPER SUPPORT SKIRT TO FLANGE GIRTH WELD.
006526	ITEM NO. 14 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE GUIDE TUBE WELDS.
006528	ITEM NO. 15 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE UPPER CORE PLATE LOCKING DEVICES.

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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O G T R E H E O E C M R			REMARKS
.....				*	*	*	**CALIBRATION BLOCK**

VESSEL CORE SUPPORT STRUCTURE (FIG NO A-RPV-5)

006530	ITEM NO. 16 UPPER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE LIFTING ROD LOCK WELDS.
006532	ITEM NO. 17 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE UPPER BARREL TO FLANGE GIRTH WELD.
006534	ITEM NO. 18 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE UPPER BARREL TO LOWER BARREL GIRTH WELD.
006536	ITEM NO. 19 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE LOWER BARREL TO CORE SUPPORT WELD.
006538	ITEM NO. 20 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE UPPER CORE PLATE ALIGNING PIN WELDS AND BEARING SURFACES.
006540	ITEM NO. 21 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE OUTLET NOZZLE INTERFACE SURFACE CONDITION.
006542	ITEM NO. 22 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE NEUTRON SHIELD PANEL DOWEL PIN COVER PLATE WELDS.

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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	
-----		-----	-----	-----	C	M	R	**CALIBRATION BLOCK**
					-	-	-	-----

VESSEL CORE SUPPORT STRUCTURE (FIG NO A-RPV-5)

006544	ITEM NO. 23 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE NEUTRON SHIELD PANEL SCREW LOCKING DEVICES.
006546	ITEM NO. 24 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE INTERFACE SURFACES AT THE SPACER PADS ALONG TOP AND BOTTOM ENDS OF THE NEUTRON PANELS.
006548	ITEM NO. 25 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE BAFFLE ASSEMBLY SCREW LOCKING ARRANGEMENTS AT THE TWO TOP AND BOTTOM ELEVATIONS.
006550	ITEM NO. 26 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	SEE REMARKS				FABRICATION NDE RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY.
006552	ITEM NO. 27 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE SECONDARY CORE SUPPORT HOUSING TO BASE PLATE WELD.
006554	ITEM NO. 28 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE LOCKING DEVICES AND CONTACT OF THE BOTTOM INSTRUMENTATION GUIDES COLUMNS WHERE ATTACHED TO THE CORE SUPPORT AND TIE PLATES.
006556	ITEM NO. 29 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE LOCKING DEVICES OF THE SECONDARY CORE SUPPORT COLUMNS WHERE ATTACHED TO THE CORE SUPPORT AND TIE PLATES.

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REACTOR PRESSURE VESSEL (FIGS. A-RPV-1 THRU -5)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS
.....				-	-	-	**CALIBRATION BLOCK**

VESSEL CORE SUPPORT STRUCTURE (FIG NO A-RPV-5)

006558	ITEM NO. 30 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE RADIAL SUPPORT KEY WELDS.
006560	ITEM NO. 31 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE RADIAL SUPPORT KEY LOCKING ARRANGEMENTS AND BEARING SURFACES.
006562	ITEM NO. 32 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE HEAD AND VESSEL ALIGNING PINS SCREW LOCKING DEVICES AND BEARING SURFACES.
006564	ITEM NO. 33 LOWER CORE SUPPORT ASSEMBLY	B-N-3 B13.32	VT	900-7/11	X	-	-	EXAMINED ACCESSIBLE IRRADIATION SPECIMEN GUIDE SCREW LOCKING DEVICES AND DOWEL PINS.

CONTROL ROD DRIVE HOUSING WELDS (FIG NO A-RPV-4)

006600	CONTROL ROD DRIVE HOUSING WELD	B-O B14.10	PT	200-1/69	X	-	-	EXAMINED 100% OF THE WELDS IN THE PERIPHERAL CONTROL ROD DRIVE HOUSINGS. NOS. 50-56, 58, 60, 62-73, AND 75-79.
006700	SEAL WELD	-- --	PT	200-1/69	X	-	-	EXAMINED 100% OF THE SEAL WELDS IN THE PERIPHERAL CONTROL ROD DRIVE HOUSINGS. NOS. 50-56, 58, 60, 62-73, AND 75-79. THESE WELDS WERE EXAMINED AT THE REQUEST OF HL&P.

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PRESSURIZER (FIGURE A-PRZ-1)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N	O	REMARKS	
					O	G		T
					C	M	R	**CALIBRATION BLOCK**

CIRCUMFERENTIAL WELDS

010100	PRZ-2-C1 UPPER HEAD TO SHELL A	B-B B2.11	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X	-	-	LIMITED UT FROM BOTH SIDES DUE TO PROXIMITY OF WELDED PLATES. LIMITED UT FROM THE SHELL SIDE DUE TO PROXIMITY OF PERMANENT PIPE SUPPORTS AND 3/4" INSTRUMENTATION LINES, SEE APPENDIX L OF THIS REPORT. **CSCL-89**
010110	PRZ-2-C2 SHELL A TO SHELL B	B-B --	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X	-	-	EXAMINATION PERFORMED IN ACCORDANCE WITH ASME SECTION XI PARAGRAPH IWB-2200(A). **CSCL-89**
010120	PRZ-2-C3 SHELL B TO SHELL C	B-B --	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X	-	-	EXAMINATION PERFORMED IN ACCORDANCE WITH ASME SECTION XI PARAGRAPH IWB-2200(A). ONE UT45 CODE ALLOWABLE INDICATION. SEE CNF 094. **CSCL-89**
010130	PRZ-2-C4 SHELL C TO SHELL D	B-B --	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X	-	-	EXAMINATION PERFORMED IN ACCORDANCE WITH ASME SECTION XI PARAGRAPH IWB-2200(A). LIMITED UT45/UT60 FROM THE SHELL C SIDE DUE TO PROXIMITY OF TRUNNIONS. SEE APPENDIX L OF THIS REPORT. ONE UT0W AND UT45 CODE ALLOWABLE INDICATIONS. SEE CNF 095. **CSCL-89**

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PRESSURIZER (FIGURE A-PRZ-1)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	PROCEDURE	N O G T R E N E O E C M R	REMARKS **CALIBRATION BLOCK**
<u>CIRCUMFERENTIAL WELDS</u>					
010140 PRZ-2-C5 SHELL D TO SHELL E	B-B --	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	EXAMINATION PERFORMED IN ACCORDANCE WITH ASME SECTION XI PARAGRAPH 1WB-2100(A).  **CSCL-89**
010150 PRZ-2-C6 SHELL E TO SHELL F	B-B --	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - - - X X - - X - - X - - X - -	EXAMINATION PERFORMED IN ACCORDANCE WITH ASME SECTION XI PARAGRAPH 1WB-2200(A). ONE UT0W CODE ALLOWABLE INDICATION. SEE CNF 096. **CSCL-89**
010200 PRZ-2-C7 SHELL F TO LOWER HEAD	B-B .82.11	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	    **CSCL-89**
<u>LONGITUDINAL WELDS</u>					
010300 PRZ-2-L1 SHELL A LONGITUDINAL SEAM WELD	B-B 82.12	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	LIMITED UT ON BOTH SIDES DUE TO PROXIMITY OF PERMANENT INSULATION SUPPORT RING. SEE APPENDIX L OF THIS REPORT. **CSCL-89**
010310 PRZ-2-L2 SHELL B LONGITUDINAL SEAM WELD	B-B --	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - - - X X - - X - - X - - X - -	EXAMINATION PERFORMED IN ACCORDANCE WITH ASME SECTION XI PARAGRAPH 1WB-2200(A). ONE UT0W CODE ALLOWABLE INDICATION. SEE CNF 097. **CSCL-89**



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PRESSURIZER (FIGURE A-PRZ-1)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M O T			REMARKS
					E	O	T	
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**

LONGITUDINAL WELDS

010320	PRZ-2-L3	B-B	UTOL	600-15/67	X	-	-	EXAMINATION PERFORMED IN ACCORDANCE WITH
	SHELL C LONGITUDINAL SEAM WELD --		UTOW		X	-	-	ASME SECTION XI PARAGRAPH IWB-2200(A).
			UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-89**
			UT60T		X	-	-	

010330	PRZ-2-L4	B-B	UTOL	600-15/67	X	-	-	EXAMINATION PERFORMED IN ACCORDANCE WITH
	SHELL D LONGITUDINAL SEAM WELD --		UTOW		X	-	-	ASME SECTION XI PARAGRAPH IWB-2200(A).
			UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-89**
			UT60T		X	-	-	

010340	PRZ-2-L5	B-B	UTOL	600-15/67	X	-	-	EXAMINATION PERFORMED IN ACCORDANCE WITH
	SHELL E LONGITUDINAL SEAM WELD --		UTOW		X	-	-	ASME SECTION XI PARAGRAPH IWB-2200(A).
			UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-89**
			UT60T		X	-	-	

010400	PRZ-2-L6	B-B	UTOL	600-15/67	X	-	-	EXAMINATION PERFORMED IN ACCORDANCE WITH
	SHELL F LONGITUDINAL SEAM WELD B2.12		UTOW		X	-	-	ASME SECTION XI PARAGRAPH IWB-2200(A).
			UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-89**
			UT60T		X	-	-	

NOZZLE TO SHELL AND SHELL TO NOZZLE WELDS

010500	PRZ-2-N1	B-D	UTOL	600-15/67	X	-	-	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE
	SURGE NOZZLE	B3.110	UTOW		X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45		X	-	-	REPORT.
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-56**
			UT60T		X	-	-	

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PRESSURIZER (FIGURE A-PRZ-1)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O T O G T R E H E O E			REMARKS
					C	M	R	
.....								
<u>NOZZLE TO SHELL AND SHELL TO NOZZLE WELDS</u>								
010600 PRZ-2-W2 SPRAY NOZZLE	B-D 83.110	UTOL UTOW UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **CSCL-56**			
010700 PRZ-2-W3 SAFETY NOZZLE	B-D 83.110	UTOL UTOW UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **CSCL-56**			
010800 PRZ-2-W4A RELIEF NOZZLE	B-D 83.110	UTOL UTOW UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **CSCL-56**			
010900 PRZ-2-W4B SAFETY NOZZLE	B-D 83.110	UTOL UTOW UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **CSCL-56**			
011000 PRZ-2-4C SAFETY NOZZLE	B-D 83.110	UTOL UTOW UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. LIMITED UT FROM THE SHELL SIDE DUE TO PROXIMITY OF 2" ELBOW. SEE APPENDIX L OF THIS REPORT.  **CSCL-56**			



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PRESSURIZER (FIGURE A-PRZ-1)

SUMMARY EXAMINATION AREA		ASME			N	O			
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H		
		ITEM NO	METHOD	PROCEDURE	E O E		R E M A R K S		
					C X R		**CALIBRATION BLOCK**		
.....									
<u>NOZZLE TO SAFE-END AND SAFE-END TO NOZZLE WELDS</u>									
011700	PRZ-2-N1-SE SURGE NOZZLE	B-F 85.40	PT UTOL UTOW UT45 UT45T UTUL UT45 UT45T	200-1/69 600-31/19    800-114/2   	X - - X - - X - - X - - X - - X - - X - - X - -	- - - - - - - - - - - - - - - -	LIMITED UT45 FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. LIMITED UT45 FROM THE SAFE END SIDE DUE TO PROXIMITY OF WELDED LUGS. SEE APPENDIX L OF THIS REPORT. **CSCL-71/SS-72**		
011800	PRZ-2-N2-SE SPRAY NOZZLE	B-F 85.40	PT UTOL UTOW UT45 UT45T UTOL UT45 UT45T	200-1/69 600-31/19    800-114/2   	X - - X - - X - - X - - X - - X - - X - - X - -	- - - - - - - - - - - - - - - -	LIMITED UT45 FROM THE SAFE END SIDE DUE TO SAFE END CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CSCL-69/SS-70**		
011900	PRZ-2-N3-SE SAFETY NOZZLE	B-F 85.40	PT UTOL UTOW UT45 UT45T UTOL UT45 UT45T	200-1/69 600-31/19    800-114/2   	X - - X - - X - - X - - X - - X - - X - - X - -	- - - - - - - - - - - - - - - -	LIMITED UT45 FROM THE SAFE END SIDE DUE TO SAFE END CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CSCL-69/SS-70**		
012000	PRZ-2-N4A-SE RELIEF NOZZLE	B-F 85.40	PT UTOL UTOW UT45 UT45T UTOL UT45 UT45T	200-1/69 600-31/19    800-114/2   	X - - X - - X - - X - - X - - X - - X - - X - -	- - - - - - - - - - - - - - - -	LIMITED UT45 FROM THE SAFE END SIDE DUE TO SAFE END CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CSCL-69/SS-70**		

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PRESSURIZER (FIGURE A-PRZ-1)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M O			REMARKS
					E	O	T	
					R	E	H	
					E	O	E	**CALIBRATION BLOCK**
					C	M	R	

NOZZLE TO SAFE-END AND SAFE-END TO NOZZLE WELDS

012100	PRZ-2-N4B-SE	B-F	PT	200-1/69	X	-	-	LIMITED UT45 FROM THE SAFE END SIDE DUE
	SAFETY NOZZLE	85.40	UT0L	600-31/19	X	-	-	TO SAFE END CONFIGURATION. SEE APPENDIX
			UT0W		X	-	-	L OF THIS REPORT.
			UT45		X	-	-	
			UT45T		X	-	-	**CSCL-69/SS-70**
			UT0L	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	

012200	PRZ-2-N4C-SE	B-F	PT	200-1/69	X	-	-	LIMITED UT45 FROM THE SAFE END SIDE DUE
	SAFETY NOZZLE	85.40	UT0L	600-31/19	X	-	-	TO SAFE END CONFIGURATION. SEE APPENDIX
			UT0W		X	-	-	L OF THIS REPORT.
			UT45		X	-	-	
			UT45T		X	-	-	**CSCL-69/SS-70**
			UT0L	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	

MANWAY BOLTING

012300	BOLTING	B-G-2	VT	900-7/11	X	-	-	EXAMINED NOS. 1 THROUGH 16.
		87.20						

INTEGRAL ATTACHMENTS

012400	1A	B-H	MT	300-1/33	X	-	-	NO EXAMINATION ON TOP OF BRACKETS DUE TO
	SUPPORT BRACKET	88.20						PROXIMITY OF PERMANENT SUPPORT FRAME.
								SEE APPENDIX L OF THIS REPORT.
012410	1B	B-H	MT	300-1/33	X	-	-	NO EXAMINATION ON TOP OF BRACKETS DUE TO
	SUPPORT BRACKET	88.20						PROXIMITY OF PERMANENT SUPPORT FRAME.
								SEE APPENDIX L OF THIS REPORT.

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PREPRESSURIZER (FIGURE A-PR2-1)

SUMMARY EXAMINATION AREA		ASME			M	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	C	G	T
		ITEM NO	METHOD	PROCEDURE	E	O	S
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

INTEGRAL ATTACHMENTS

012420	2A SUPPORT BRACKET	B-H 88.20	MT	300-1/33	X	-	-	NO EXAMINATION ON TOP OF BRACKETS DUE TO PROXIMITY OF PERMANENT SUPPORT FRAME. SEE APPENDIX L OF THIS REPORT.
012430	2B SUPPORT BRACKET	B-H 88.20	MT	300-1/33	X	-	-	NO EXAMINATION ON TOP OF BRACKETS DUE TO PROXIMITY OF PERMANENT SUPPORT FRAME. SEE APPENDIX L OF THIS REPORT.
012440	3A SUPPORT BRACKET	B-H 88.20	MT	300-1/33	-	-	X	TWO LINEAR MT INDICATIONS. SEE CNF 098. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS. NO EXAMINATION ON TOP OF BRACKETS DUE TO PROXIMITY OF PERMANENT SUPPORT FRAME. SEE APPENDIX L OF THIS REPORT.
012450	3B SUPPORT BRACKET	B-H 88.20	MT	300-1/33	X	-	-	NO EXAMINATION ON TOP OF BRACKETS DUE TO PROXIMITY OF PERMANENT SUPPORT FRAMES. SEE APPENDIX L OF THIS REPORT.
012460	4A SUPPORT BRACKET	B-H 88.20	MT	300-1/33	X	-	-	NO EXAMINATION ON TOP OF BRACKETS DUE TO PROXIMITY OF PERMANENT SUPPORT FRAME. SEE APPENDIX L OF THIS REPORT.
012470	4B SUPPORT BRACKET	B-H 88.20	MT	300-1/33	X	-	-	NO EXAMINATION ON TOP OF BRACKETS DUE TO PROXIMITY OF PERMANENT SUPPORT FRAME. SEE APPENDIX L OF THIS REPORT.
012500	1 SEISMIC LUG	B-H 88.20	MT	300-1/33	X	-	-	

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PRESSURIZER (FIGURE A-PRZ-1)

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	**CALIBRATION BLOCK**
					C	M	R	

INTEGRAL ATTACHMENTS

012510	2 SEISMIC LUG	B-H 88.20	MT	300-1/33	X	-	-	
012520	3 SEISMIC LUG	B-H 88.20	MT	300-1/33	X	-	-	
012530	4 SEISMIC LUG	B-H 88.20	MT	300-1/33	X	-	-	
012600	PRZ-2-SK SUPPORT SKIRT	B-H 88.20	MT UTOL UTOW UT35 UT60 UT60T	300-1/33 800-121/0	X	-	-	NO MT FROM THE INSIDE SURFACE DUE TO INACCESSIBILITY. MT PERFORMED ON OUTSIDE SURFACE 1" BELOW AND 1" ABOVE THE WELD. SIX UT35 CODE ALLOWABLE INDICATIONS. SEE CNF 099. SEE APPENDIX L OF THIS REPORT. **CS-55/CSCL-89**

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STEAM GENERATOR 2A (PRIMARY SIDE) (FIGURE A-SG-1)

SUMMARY EXAMINATION AREA				N	O	REMARKS
NUMBER	IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	OGT REH OOE CMR	
						**CALIBRATION BLOCK**
<u>HEAD WELDS</u>						
015000	SG-2A-SR1 CHANNEL HEAD CAP TO SUPPORT RING	B-B B2.31	UTOL UTOW UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	NO UT FROM THE SUPPORT RING SIDE DUE TO SUPPORT RING CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **CSCL-89**
015100	SG-2A-SR2 SUPPORT RING TO TUBE PLATE	B-B B2.40	UTOL UTOW UT45 UT45T UT60 UT60T	600-15/67	X - - X - - - X - X - - - X - X - -	NO UT FROM THE SUPPORT RING SIDE DUE TO SUPPORT RING CONFIGURATION. LIMITED UT45/UT60 FROM THE TUBE SIDE DUE TO PROXIMITY OF WELDED PLATES. SEE APPENDIX L OF THIS REPORT.  **CSCL-89**
<u>NOZZLE TO VESSEL LOWER HEAD WELDS</u>						
015200	SG-2A-1N INLET NOZZLE TO CHANNEL HEAD CAP	B-D B3.130	UTOL UTOW UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **CSCL-89**
015300	SG-2A-0N CHANNEL HEAD CAP TO OUTLET NOZZLE	B-D B3.130	UTOL UTOW UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. SEE APPENDIX L OF THIS REPORT. TWO LINEAR VT INDICATIONS WERE DISCOVERED PRIOR TO THE UT EXAMINATIONS. SEE CNF 100. THE INDICATIONS WERE RESOLVED BY WESTINGHOUSE.  **CSCL-89**



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STEAM GENERATOR 2A (PRIMARY SIDP) (FIGURE A-SG-1)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O T R E H E O E R E M A R K S		
				ITEM NO	C M R	**CALIBRATION BLOCK**

NOZZLE INSIDE RADIUS SECTION

015400 SG-2A-IN-1R INLET NOZZLE INSIDE RADIUS SECTION	B-D 83.140	UT28	600-11/43	X - -	**CSCL-41**
015500 SG-2A-ON-1R OUTLET NOZZLE INSIDE RADIUS SECTION	B-D 83.140	UT28	600-11/43	X - -	**CSCL-41**

NOZZLE TO ELBOW WELDS

015600 ELBOW TO INLET NOZZLE (BUTTERED CONNECTIONS)	B-F 85.70	PT UT	SEE REMARKS	EXAMINED IN CONJUNCTION WITH 29-RC-2101 -NSS-5. (SEE SUMMARY NO. 100760)
015700 OUTLET NOZZLE TO ELBOW (BUTTERED CONNECTIONS)	B-F 85.70	PT UT	SEE REMARKS	EXAMINED IN CONJUNCTION WITH 31-RC-2102 -NSS-1. (SEE SUMMARY NO. 100000)

MANWAY BOLTING

015800 SG-2A-1MB INLET MANWAY BOLTING	B-G-2 87.30	VT-1	900-7/11	X - -	EXAMINED NOS. 1 THROUGH 16.
015900 SG-2A-OMB OUTLET MANWAY BOLTING	B-G-2 87.30	VT-1	900-7/11	X - -	EXAMINED NOS. 1 THROUGH 16.

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STEAM GENERATOR 2B (PRIMARY SIDE) (FIGURE A-SG-2)

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E O E		REMARKS	
					C M R		**CALIBRATION BLOCK**	

HEAD WELDS

016000	SG-2B-SR1	B-B	UTOL	600-15/67	X	-	-	LIMITED UT FROM THE SUPPORT RING SIDE
	CHANNEL HEAD CAP TO SUPPORT	B2.31	UTOW		X	-	-	DUE TO SUPPORT RING CONFIGURATION. SEE
	RING		UT45		X	-	-	APPENDIX L OF THIS REPORT.
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-89**
			UT60T		X	-	-	
016100	SG-2B-SR2	B-B	UTOL	600-15/67	X	-	-	NO UT FROM THE SUPPORT RING SIDE DUE TO
	SUPPORT RING TO TUBE PLATE	W2.40	UTOW		X	-	-	SUPPORT RING CONFIGURATION. LIMITED
			UT45		X	-	-	UT45/UT60 FROM THE TUBE PLATE SIDE DUE
			UT45T		X	-	-	TO PROXIMITY OF WELDED PLATES. SEE
			UT60		X	-	-	APPENDIX L OF THIS REPORT.
			UT60T		X	-	-	**CSCL-89**

NOZZLE TO VESSEL LOWER HEAD WELDS

016200	SG-2B-1W	B-D	UTOL	600-15/67	X	-	-	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE
	INLET NOZZLE TO CHANNEL HEAD	B3.130	UTOW		X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
	CAP		UT45		X	-	-	REPORT.
			UT45T		X	-	-	
			UT6C		X	-	-	**CSCL-89**
			UT60T		X	-	-	
016300	SG-2B-0W	B-D	UTOL	600-15/67	X	-	-	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE
	CHANNEL HEAD CAP TO OUTLET	B3.130	UTOW		X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
	NOZZLE		UT45		X	-	-	REPORT.
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-89**
			UT60T		X	-	-	

NOZZLE INSIDE RADIUS SECTION

016400	SG-2B-1N-1R	B-D	UT2B	600-11/43	X	-	-	
	INLET NOZZLE INSIDE RADIUS	B3.140						
	SECTION							

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STEAM GENERATOR 2B (PRIMARY SIDE) (FIGURE A-SG-2)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N J		REMARKS
				O G T	R E H	
	ITEM NO			E O E	C M R	**CALIBRATION BLOCK**
-----						

NOZZLE INSIDE RADIUS SECTION

016500	SG-2B-ON-1R	B-D	UT2B	600-11/43	X - -	
	OUTLET NOZZLE INSIDE RADIUS SECTION	83.140				

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NOZZLE TO ELBOW WELDS

016600	ELBOW TO INLET NOZZLE (BUTTERED CONNECTIONS)	B-F	PT	SEE REMARKS		EXAMINED IN CONJUNCTION WITH 29-RC-2201 -NSS-5. (SEE SUMMARY NO. 100900)
		85.70	UT			

016700	OUTLET NOZZLE TO ELBOW (BUTTERED CONNECTIONS)	B-F	PT	SEE REMARKS		EXAMINED IN CONJUNCTION WITH 31-RC-2202 -NSS-1. (SEE SUMMARY NO. 100180)
		85.70	UT			

MANWAY BOLTING

016800	SG-2B-1MB INLET MANWAY BOLTING	B-G-2	VT-1	900-7/11	X - -	EXAMINED NOS. 1 THROUGH 16.
		87.30				

016900	SG-2B-0MB OUTLET MANWAY BOLTING	B-G-2	VT-1	900-7/11	X - -	EXAMINED NOS. 1 THROUGH 16.
		87.30				

STEAM GENERATOR 2C (PRIMARY SIDE) (FIGURE A-SG-1)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	M O O G T R E H E O E			REMARKS **CALIBRATION BLOCK**
			C	M	R	

HEAD WELDS

017000	SG-2C-SR1 CHANNEL HEAD CAP TO SUPPORT RING	B-8 82.31	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	LIMITED UT FROM THE SUPPORT RING SIDE DUE TO SUPPORT RING CONFIGURATION. SEE APPENDIX L OF THIS REPORT.      **CSCL-89**
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017100	SG-2C-SR2 SUPPORT RING TO TUBE PLATE	B-8 82.40	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - X - - - X - X - - - X - X - -	NO UT FROM THE SUPPORT RING SIDE DUE TO SUPPORT RING CONFIGURATION. LIMITED UT45/UT60 FROM THE TUBE PLATE SIDE DUE TO PROXIMITY OF WELDED PLATES. SEE APPENDIX L OF THIS REPORT.      **CSCL-89**
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NOZZLE TO VESSEL LOWER HEAD WELDS

017200	SG-2C-1W INLET NOZZLE TO CHANNEL HEAD CAP	B-8 83.130	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.      **CSCL-89**
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017300	SG-2C-0W CHANNEL HEAD CAP TO OUTLET NOZZLE	B-8 83.130	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.      **CSCL-89**
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NOZZLE INSIDE RADIUS SECTION

017400	SG-2C-1W-1R INLET NOZZLE INSIDE RADIUS SECTION	B-8 83.140	UT28	600-11/43	X - -	
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STEAM GENERATOR 2C (PRIMARY SIDE) (FIGURE A-SG-1)

SUMMARY EXAMINATION AREA		ASME			M	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM			REMARKS
		ITEM NO	METHOD	PROCEDURE	C	M	R
.....							**CALIBRATION BLOCK**
.....							.....

NOZZLE INSIDE RADIUS SECTION

017500	SG-2C-ON-IR OUTLET NOZZLE INSIDE RADIUS SECTION	B-D 83.140	UT2B	600-11/43	X	-	-
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NOZZLE TO ELBOW WELDS

017600	ELBOW TO INLET NOZZLE (BUTTERED CONNECTIONS)	B-F 85.70	PT UT	SEE REMARKS			EXAMINED IN CONJUNCTION WITH 29-RC-2301 -NSS-5. (SEE SUMMARY NO. 101040)
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017700	OUTLET NOZZLE TO ELBOW (BUTTERED CONNECTIONS)	B-F 85.70	PT UT	SEE REMARKS			EXAMINED IN CONJUNCTION WITH 31-RC-2302 -NSS-1. (SEE SUMMARY NO. 100360)
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MANWAY BOLTING

017800	SG-7C-1MB INLET MANWAY BOLTING	B-G-2 87.30	VT-1	900-7/11	X	-	EXAMINED NOS. 1 THROUGH 16.
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017900	SG-2C-OMB OUTLET MANWAY BOLTING	B-G-2 87.30	VT-1	900-7/11	X	-	EXAMINED NOS. 1 THROUGH 16.
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STEAM GENERATOR 2D (PRIMARY SIDE) (FIGURE A-SG-2)

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	C O E		R E M A R K S	
					C M R		**CALIBRATION BLOCK**	

HEAD WELDS

018000	SG-2D-SR1	B-B	UTOL	600-15/67	X	-	-	NO UT FROM THE SUPPORT RING SIDE DUE TO
	CHANNEL HEAD CAP TO SUPPORT	B2.31	UTOW		X	-	-	SUPPORT RING CONFIGURATION. SEE
	RING		UT45		X	-	-	APPENDIX L OF THIS REPORT.
			UT45T		X	-	-	
			UT60		X	-	-	**CSLL-89**
			UT60T		X	-	-	

018100	SG-2D-SR2	B-B	UTOL	600-15/67	X	-	-	NO UT FROM THE SUPPORT RING SIDE DUE TO
	SUPPORT RING TO TUBE PLATE	B2.40	UTOW		X	-	-	SUPPORT RING CONFIGURATION. LIMITED
			UT45		-	X	-	UT45/UT60 FROM THE TUBE PLATE SIDE DUE
			UT45T		X	-	-	TO PROXIMITY OF WELDED PLATES. SEE
			UT60		-	X	-	APPENDIX L OF THIS REPORT.
			UT60T		X	-	-	**CSCL-89**

NOZZLE TO VESSEL LOWER HEAD WELDS

018200	SG-2D-1W	B-D	UTOL	600-15/67	X	-	-	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE
	INLET NOZZLE TO CHANNEL HEAD	B3.130	UTOW		X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
	CAP		UT45		X	-	-	REPORT.
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-89**
			UT60T		X	-	-	

018300	SG-2D-OW	B-D	UTOL	600-15/67	X	-	-	NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE
	CHANNEL HEAD CAP TO OUTLET	B3.130	UTOW		X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
	NOZZLE		UT45		X	-	-	REPORT.
			UT45T		X	-	-	
			UT60		X	-	-	**CSCL-89**
			UT60T		X	-	-	

NOZZLE INSIDE RADIUS SECTION

018400	SG-2D-1W-1R	B-D	UT2R	600-11/43	X	-	-	
	INLET NOZZLE INSIDE RADIUS	B3.140						
	SECTION							

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STEAM GENERATOR 2D (PRIMARY SIDE) (FIGURE A-SG-2)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O O Q T R E H E O E C M R			REMARKS
.....	.....	.....	.....	X	X	X	**CALIBRATION BLOCK**

NOZZLE INSIDE RADIUS SECTION

018500	SG-2D-OM-1R OUTLET NOZZLE INSIDE RADIUS SECTION	B-D B3.140	UT2B	600-11/43	X	-	-
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NOZZLE TO ELBOW WELDS

018600	ELBOW TO INLET NOZZLE (BUTTERED CONNECTIONS)	B-F B5.70	PT UT	SEE REMARKS			EXAMINED IN CONJUNCTION WITH 29-RC-2401 -NSS-4. (SEE SUMMARY NO. 101170)
018700	OUTLET NOZZLE TO ELBOW (BUTTERED CONNECTIONS)	B-F B5.70	PT UT	SEE REMARKS			EXAMINED IN CONJUNCTION WITH 31-RC-2402 -NSS-1. (SEE SUMMARY NO. 100540)

MANWAY BOLTING

018800	SG-2D-1MB INLET MANWAY BOLTING	B-G-2 B7.30	VT-1	900-7/11	X	-	EXAMINED NOS. 1 THROUGH 16.
018900	SG-2D-OMB OUTLET MANWAY BOLTING	B-G-2 B7.30	VT-1	900-7/11	X	-	EXAMINED NOS. 1 THROUGH 16.

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REACTOR COOLANT SYSTEM

SUMMARY EXAMINATION AREA		ASME	EXAM	PROCEDURE	N	O	REMARKS
NUMBER	IDENTIFICATION	SEC. XI	CATGY	ITEM NO	UTOL	UTOW	UT45
							**CALIBRATION BLOCK**
<hr/>							
<u>31-RC-2102-NSS - LOOP 1 (TIG NO A-RC-1)</u>							
100000	1	B-F	PT	200-1/69	X	-	LIMITED UT45 ON THE WELD AND NO UT45T ON
	SG OUTLET NOZZLE TO ELBOW	85.130	UTOL	800-116/2	X	-	THE ELBOW SIDE DUE TO WELD
	(FW0005)		UT45		-	X	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45T		X	-	REPORT.
			UTOL	600-31/19	X	-	**CS-78/SS-79/CSS-80**
			UTOW		X	-	
			UT45		X	-	
			UT45T		X	-	
			UT60		X	-	
100010	2	B-J	PT	200-1/69	X	-	LIMITED UT45 ON THE ELBOW SIDE AND NO
	ELBOW TO PIPE	89.11	UTOL	800-116/2	X	-	UT45T ON WELD AND PIPE SIDE DUE TO WELD
	(FW0006)		UTOW		X	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45		X	-	REPORT.
			UT45T		X	-	**CCSS-19/CSS-80**
100020	3	B-J	PT	200-1/69	X	-	LIMITED UT45T ON PIPE SIDE DUE TO WELD
	PIPE TO ELBOW	89.11	UTOL	800-116/2	X	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UTOW		X	-	REPORT.
			UT45		X	-	
			UT45T		X	-	**CCSS-19/CSS-80**
100030	4	B-J	PT	200-1/69	X	-	LIMITED UT45T ON WELD AND PIPE SIDE DUE
	ELBOW TO PIPE	89.11	UTOL	800-116/2	X	-	TO WELD CONFIGURATION. SEE APPENDIX L
	(FW0007)		UTOW		X	-	OF THIS REPORT.
			UT45		X	-	
			UT45T		X	-	**CCSS-19/CSS-80**
100040	5	B-J	PT	200-1/69	X	-	
	3-IN. BRANCH CONNECTION	89.32					



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SUMMARY EXAMINATION AREA		ASME	EXAM		M	O	REMARKS
NUMBER	IDENTIFICATION	SEC. XI	CA <sup>2</sup> UT	METHOD	PROCEDURE	ITEM NO	
		ITEM NO					
<u>31-RC-2102-NSS - LOOP 1 (FIG NO A-RC-1)</u>							
100050	6 2-IN. BRANCH CONNECTION	B-J 89.32	PT		200-1/69	X - -	
100060	7 3-IN. BRANCH CONNECTION	B-J 89.32	PT		200-1/69	X - -	
100070	8 PIPE TO ELBOW	B-J 89.11	PT UTOL UTOW UT45 UT45T		200-1/69 800-116/2	X - - X - - X - - X - - X - -	LIMITED UT45T ON WELD AND PIPE SIDE DUE TO WELD CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  <b>**CCSS-19/CSS-80**</b>
100080	9 ELBOW TO REACTOR COOLANT PUMP (FW0008)	B-J 89.11	PT UTOL UTOW UT45 UT45T		200-1/69 800-116/2	X - - X - - X - - - X - X - -	LIMITED UT45 ON BOTH SIDES AND NO UT45T DUE TO WELD CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  <b>**CSS-80**</b>
<u>31-RC-2202-NSS - LOOP 2 (FIG NO A-RC-2)</u>							
100180	1 SG OUTLET NOZZLE TO ELBOW (FW0013)	B-F 85.130	PT UTOL UT45 UT45T UTOL UTOW UT45 UT45T UT60		200-1/69 800-116/2  600-31/19	X - - X - - - X - X - - X - - X - - X - - X - - X - -	NO UT45T ON THE ELBOW SIDE DUE TO WELD CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  <b>**CS-78/SS-79/CSS-80**</b>

REACTOR COOLANT SYSTEM

SUMMARY EXAMINATION AREA		ASME			W	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	D	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----							
<u>31-RC-2202-NSS - LOOP 2 (FIG NO A-RC-2)</u>							
100190	2	B-J	PT	200-1/69	X	-	-
	ELBOW TO PIPE	B9.11	UT0L	800-116/2	X	-	-
	(FW0014)		UTOW		X	-	-
			UT45		-	X	-
			UT45T		X	-	-
							**CCSS-19/CSS-80**
100200	3	B-J	PT	200-1/69	X	-	-
	PIPE TO ELBOW	B9.11	UT0L	800-116/2	X	-	-
			UTOW		X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**CCSS-19/CSS-80**
100210	4	B-J	PT	200-1/69	X	-	-
	ELBOW TO PIPE	B9.11	UT0L	800-116/2	X	-	-
	(FW0015)		UTOW		X	-	-
			UT45		-	X	-
			UT45T		X	-	-
							**CCSS-19/CSS-80**
100220	5	B-J	PT	200-1/69	X	-	-
	3-IN. BRANCH CONNECTION	B9.32					
100230	6	B-J	PT	200-1/69	X	-	-
	3-IN. BRANCH CONNECTION	B9.32					
100240	7	B-J	PT	200-1/69	X	-	-
	2-IN. BRANCH CONNECTION	B9.32					

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					E	G	
					R	E	
					E	O	
					C	M	**CALIBRATION BLOCK**

31-RC-2202-NSS - LOOP 2 (FIG NO A-RC-2)

100250 8	B-J	PT		200-1/69	X	-	LIMITED UT45T ON THE WELD AND PIPE SIDE
PIPE TO ELBOW	B9.11	UTOL		800-116/2	X	-	DUE TO WELD CONFIGURATION. SEE APPENDIX
		UTOW			X	-	L OF THIS REPORT.
		UT45			X	-	
		UT45T			X	-	**CCSS-19/CSS-80**
100260 9	B-J	PT		200-1/69	X	-	LIMITED UT45 ON BOTH SIDES AND NO UT45T
ELBOW TO REACTOR COOLANT PUMP	B9.11	UTOL		800-116/2	X	-	DUE TO WELD CONFIGURATION. SEE APPENDIX
(FW0016)		UTOW			X	-	L OF THIS REPORT.
		UT45			-	X	
		UT45T			X	-	**CSS-80**

31-RC-2302-NSS - LOOP 3 (FIG NO A-RC-3)

100360 1	B-F	PT		200-1/69	X	-	LIMITED UT45 ON THE WELD AND NO UT45T ON
SG OUTLET NOZZLE TO ELBOW	B5.130	UTOL		800-116/2	X	-	THE ELBOW SIDE DUE TO WELD
(FW0021)		UT45			X	-	CONFIGURATION. SEE APPENDIX L OF THIS
		UT45T			X	-	REPORT.
		UTOL		600-31/19	X	-	**CS-78/SS-79/CSS-80**
		UTOW			X	-	
		UT45			X	-	
		UT45T			X	-	
		UT60			X	-	
100370 2	B-J	PT		200-1/69	X	-	LIMITED UT45 ON BOTH SIDES AND NO UT45T
ELBOW TO PIPE	B9.11	UTOL		800-116/2	X	-	ON THE WELD AND PIPE SIDE DUE TO WELD
(FW0022)		UTOW			X	-	CONFIGURATION. SEE APPENDIX L OF THIS
		UT45			X	-	REPORT.
		UT45T			X	-	**CCSS-19/CSS-80**
100380 3	B-J	PT		200-1/69	X	-	NO UT45T ON THE WELD AND PIPE SIDE DUE
PIPE TO ELBOW	B9.11	UTOL		800-116/2	X	-	TO WELD CONFIGURATION. SEE APPENDIX L
		UTOW			X	-	OF THIS REPORT.
		UT45			X	-	
		UT45T			X	-	**CCSS-19/CSS-80**

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>31-RC-2302-NSS - LOOP 3 (FIG NO A-RC-3)</u>								
100390	4	B-J	PT	200-1/69	X	-	-	LIMITED UT45T ON WELD AND PIPE SIDE DUE
	ELBOW TO PIPE	89.11	UT0L	800-116/2	X	-	-	TO WELD CONFIGURATION. SEE APPENDIX L
	(FW0023)		UT0W		X	-	-	OF THIS REPORT.
			UT45		-	X	-	
			UT45T		X	-	-	**CCSS-19/CSS-80**
100400	5	B-J	PT	200-1/69	X	-	-	
	2-IN. BRANCH CONNECTION	89.32						
100410	6	B-J	PT	200-1/69	X	-	-	
	3-IN. BRANCH CONNECTION	89.32						
100420	7	B-J	PT	200-1/69	X	-	-	NO UT FROM THE MAIN RUN SIDE DUE TO
	4-IN. BRANCH CONNECTION	89.31	UT35	800-118/2	X	-	-	COMPONENT CONFIGURATION. SEE APPENDIX L
								OF THIS REPORT.
								**SS-77**
100430	8	B-J	PT	200-1/69	X	-	-	LIMITED UT45T ON WELD AND PIPE SIDE DUE
	PIPE TO ELBOW	89.11	UT0L	800-116/2	X	-	-	TO WELD CONFIGURATION. SEE APPENDIX L
			UT0W		X	-	-	OF THIS REPORT.
			UT45		X	-	-	
			UT45T		X	-	-	**CCSS-19/CSS-80**
100440	9	B-J	PT	200-1/69	X	-	-	LIMITED UT45 ON BOTH SIDES AND NO UT45T
	ELBOW TO REACTOR COOLANT PUMP	89.11	UT0L	800-116/2	X	-	-	DUE TO WELD CONFIGURATION. SEE APPENDIX
	(FW0024)		UT0W		X	-	-	L OF THIS REPORT.
			UT45		-	X	-	
			UT45T		X	-	-	**CSS-80**

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NUMBER	IDENTIFICATION	SEC. XI	METHOD		O G T	
		CATGY			R E H	
		ITEM NO			E O E	**CALIBRATION BLOCK**
					C M R	
<u>31-RC-2402-NSS - LOOP 4 (FIG NO A-RC-4)</u>						
100540	1	B-F	PT	200-1/69	X - -	LIMITED UT45 ON THE WELD DUE TO WELD
	SG OUTLET NOZZLE TO ELBOW	B5.130	UTOL	800-116/2	X - -	CONFIGURATION. SEE APPENDIX L OF THIS
	(FW0029)		UT45		- X -	REPORT.
			UT45T		X - -	
			UTOL	500-31/19	X - -	**CS-78/SS-79/CSS-80**
			UTOW		X - -	
			UT45		X - -	
			UT45T		X - -	
			UT60		X - -	
100560	2	B-J	PT	200-1/69	X - -	LIMITED UT45 ON THE ELBOW SIDE AND NO
	ELBOW TO PIPE	B9.11	UTOL	800-116/2	X - -	UT45T ON THE WELD AND PIPE SIDE DUE TO
	(FW0030)		UTOW		X - -	WELD CONFIGURATION. SEE APPENDIX L OF
			UT45		X - -	THIS REPORT.
			UT45T		X - -	**CCSS-19/CSS-80**
100565	3	B-J	PT	200-1/69	X - -	LIMITED UT45T ON THE WELD AND PIPE SIDE
	PIPE TO ELBOW	B9.11	UTOL	800-116/2	X - -	DUE TO WELD CONFIGURATION. SEE APPENDIX
			UTOW		X - -	L OF THIS REPORT.
			UT45		- X -	
			UT45T		X - -	**CCSS-19/CSS-80**
100570	4	B-J	PT	200-1/69	X - -	LIMITED UT45 ON THE ELBOW SIDE AND NO
	ELBOW TO PIPE	B9.11	UTOL	800-116/2	X - -	UT45T ON THE WELD AND PIPE SIDE DUE TO
	(FW0031)		UTOW		X - -	WELD CONFIGURATION. SEE APENDIX L OF
			UT45		X - -	THIS REPORT.
			UT45T		X - -	**CCSS-19/CSS-80**
100580	5	B-J	PT	200-1/69	X - -	
	3-IN. BRANCH CONNECTION	B9.32				

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NUMBER IDENTIFICATION		SEC. XI	CATGY	METHOD	PROCEDURE	REMARKS
		ITEM NO				
<u>31-RC-2402-NSS - LOOP 4 (FIG NO A-RC-4)</u>						
100590	6	B-J	PT	200-1/69	X - -	
	3-IN. BRANCH CONNECTION	B9.32				
100600	7	B-J	PT	200-1/69	X - -	
	2-IN. BRANCH CONNECTION	B9.32				
100610	8	B-J	PT	200-1/69	X - -	LIMITED UT45T ON THE PIPE SIDE DUE TO
	PIPE TO ELBOW	B9.11	UTOL	800-116/2	X - -	WELD CONFIGURATION. SEE APPENDIX L OF
			UTOW		X - -	THIS REPORT.
			UT45		X - -	
			UT45T		X - -	**CCSS-19/CSS-80**
100620	9	B-J	PT	200-1/69	X - -	LIMITED UT45 ON BOTH SIDES AND NO UT45T
	ELBOW TO REACTOR COOLANT PUMP	B9.11	UTOL	800-116/2	X - -	DUE TO WELD CONFIGURATION. SEE APPENDIX
	(FW0032)		UTOW		X - -	L OF THIS REPORT.
			UT45		- X -	
			UT45T		X - -	**CSS-80**
<u>29-RC-2101-NSS - LOOP 1 (FIG NO A-RC-1)</u>						
100720	1	B-J	PT	200-1/69	X - -	UT EXAMINATION PERFORMED FROM THE ID
	RPV SAFE END TO PIPE	B9.11	UTOL	800-116/2	X - -	SURFACE WITH MECHANIZED TECHNIQUE AND
	(FW0001)		UTOW		X - -	FROM THE OD SURFACE WITH MANUAL
			UT45		- X -	TECHNIQUE.
			UT45T		X - -	**CCSS-18/MJ-44**
			UTOL	800-111/1	X - -	
			UT50/70		X - -	
			UT50/70T		X - -	

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					D	G		T
					C	M	R	**CALIBRATION BLOCK**

29-PC-2101-NSS - LOOP 1 (FIG NO A-RC-1)

100730 2	B-J	PT		200-1/69	X	-	-	LIMITED UT DUE TO COMPONENT
8-IN. BRANCH CONNECTION	89.31	UTOL		800-116/2	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
		UT45			X	-	-	REPORT.
		UT45T			X	-	-	
		UT24		800-118/2	X	-	-	**CCSS-18/SS-81**
100740 3	B-J	PT		200-1/69	X	-	-	LIMITED UT DUE TO COMPONENT
12-IN. BRANCH CONNECTION	89.31	UTOL		800-116/2	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
		UT45			X	-	-	REPORT.
		UT45T			X	-	-	
		UT24		800-118/2	X	-	-	**CCSS-18/SS-82**
100750 4	B-J	PT		200-1/69	X	-	-	LIMITED UT45T ON THE WELD AND PIPE SIDE
PIPE TO ELBOW	89.11	UTOL		800-116/2	X	-	-	DUE TO WELD CONFIGURATION. SEE APPENDIX
		UTOW			X	-	-	L OF THIS REPORT.
		UT45			-	X	-	
		UT45T			X	-	-	**CCSS-18/CSS-80**
100760 5	B-F	PT		200-1/69	X	-	-	NO UT45T ON THE ELBOW SIDE DUE TO WELD
ELBOW TO SG INLET NOZZLE	85.130	UTOL		800-116/2	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
(FW0002)		UT45			X	-	-	REPORT.
		UT45T			X	-	-	
		UTOL		600-31/19	X	-	-	**CS-78/SS-79/CSS-80**
		UTOW			X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	
		UT60			X	-	-	

29-RC-2201-NSS - LOOP 2 (FIG NO A-RC-2)

100860 1	B-J	PT		200-1/69	-	-	X	ONE LINEAR PT INDICATION. SEE CNF'S
RPV SAFE END TO PIPE	89.11				X	-	-	004, 035 AND 0035A. REEXAMINATION
(FW0011)		UTOL		800-116/2	X	-	-	REVEALED NO RECORDABLE INDICATIONS. UT
		UTOW			X	-	-	EXAMINATION PERFORMED FROM THE ID
		UT45			-	X	-	SURFACE WITH MECHANIZED TECHNIQUE AND
		UT45T			X	-	-	FROM THE OD SURFACE WITH MANUAL
		UTOL		800-111/1	X	-	-	TECHNIQUE.
		UT50/70			X	-	-	**CCSS-18/WJ-44**
		UT50/70T			X	-	-	

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					O	G		T
					C	M	R	**CALIBRATION BLOCK**

29-RC-2201-NSS - LOOP 2 (FIG NO A-RC-2)

100870 2	B-J	PT		200-1/69	X	-	-	LIMITED UT DUE TO COMPONENT
8-IN. BRANCH CONNECTION	B9.31	UTOL		800-116/2	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
		UT45			X	-	-	REPORT.
		UT45T			X	-	-	
		UT24		800-118/2	X	-	-	**CCSS-18/SS-81**
100880 3	B-J	PT		200-1/69	X	-	-	LIMITED UT DUE TO COMPONENT
12-IN. BRANCH CONNECTION	B9.31	UTOL		800-116/2	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
		UT45			X	-	-	REPORT.
		UT45T			X	-	-	
		UT24		800-118/2	X	-	-	**CCSS-18/SS-82**
100890 4	B-J	PT		200-1/69	X	-	-	LIMITED UT45T ON THE WELD AND PIPE SIDE
PIPE TO ELBOW	B9.11	UTOL		800-116/2	X	-	-	DUE TO WELD CONFIGURATION. SEE APPENDIX
		UTOW			X	-	-	L OF THIS REPORT.
		UT45			X	-	-	
		UT45T			X	-	-	**CCSS-18/CSS-80**
100900 5	B-F	PT		200-1/69	X	-	-	LIMITED UT45 ON THE WELD AND NO UT45T ON
ELBOW TO SG INLET NOZZLE	B5.130	UTOL		800-116/2	X	-	-	THE ELBOW SIDE DUE TO WELD
(FW0012)		UT45			X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
		UT45T			X	-	-	REPORT.
		UTOL		600-31/19	X	-	-	**CS-78/SS-79/CSS-80**
		UTOW			X	-	-	
		UT45			Y	-	-	
		UT45T			A	-	-	
		UT60			X	-	-	

29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3)

101000 1	B-J	PT		200-1/69	X	-	-	UT PERFORMED FROM THE ID SURFACE WITH
RPV SAFE END TO PIPE	B9.11	UTOL		800-116/2	X	-	-	MECHANIZED TECHNIQUE AND FROM THE OD
(FW0017)		UTOW			X	-	-	SURFACE WITH MANUAL TECHNIQUE.
		UT45			X	-	-	
		UT45T			X	-	-	**CCSS-18/MJ-44**
		UTOL		800-111/1	X	-	-	
		UT50/70			-	X	-	
		UT50/70T			X	-	-	



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					E	G	
					R	E	
					H		
					E	O	
					C	M	**CALIBRATION BLOCK**
					R		

29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3)

101010 2	B-J	PT		200-1/69	X	-	LIMITED UT DUE TO COMPONENT
8-IN. BRANCH CONNECTION	89.31	UTOL		800-116/2	X	-	CONFIGURATION. SEE APPENDIX L OF THIS
		UT45			X	-	REPORT.
		UT45T			X	-	
		UT24		800-118/2	X	-	**CCSS-18/SS-81**
101020 3	B-J	PT		200-1/69	X	-	LIMITED UT DUE TO COMPONENT
12-IN. BRANCH CONNECTION	89.31	UTOL		800-116/2	X	-	CONFIGURATION. SEE APPENDIX L OF THIS
		UT45			X	-	REPORT.
		UT45T			X	-	
		UT24		800-118/2	X	-	**CCSS-18/SS-82**
101030 4	B-J	PT		200-1/69	X	-	ONE UTOL CODE ALLOWABLE INDICATION. SEE
PIPE TO ELBOW	89.11	UTOL		800-116/2	-	X	CNF 050. NO UT45T ON THE WELD AND PIPE
		UTOW			X	-	SIDE DUE TO WELD CONFIGURATION. SEE
		UT45			-	X	APPENDIX L OF THIS REPORT.
		UT45T			X	-	**CCSS-18/CSS-80**
101040 5	B-F	PT		200-1/69	X	-	TWO UTOL CODE ALLOWABLE INDICATIONS.
ELBOW TO SG INLET NOZZLE	85.130	UTOL		800-116/2	-	X	SEE CNF 014. NO UT45T ON THE ELBOW SIDE
(FW0018)		UT45			X	-	DUE TO WELD CONFIGURATION. SEE APPENDIX
		UT45T			X	-	L OF THIS REPORT.
		UTOL		600-31/19	X	-	**CS-78/SS-79/CSS-80**
		UTOW			X	-	
		UT45			X	-	
		UT45T			X	-	
		UT60			X	-	

29-RC-2401-NSS - LOOP 4 (FIG NO A-RC-4)

101140 1	B-J	PT		200-1/69	X	-	UT PERFORMED FROM THE ID SURFACE WITH
RPV SAFE END TO PIPE	89.11	UTOL		800-116/2	X	-	MECHANIZED TECHNIQUE AND FROM THE OD
(FW0027)		UTOW			X	-	SURFACE WITH MANUAL TECHNIQUE.
		UT45			X	-	
		UT45T			X	-	**CCSS-18/MU-44**
		UTOL		800-111/1	X	-	
		UT50/70			X	-	
		UT50/70T			X	-	

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NUMBER	IDENTIFICATION	SEC. XI CATGY	ITEM NO METHOD			**CALIBRATION BLOCK**
<u>29-RC-2401-NSS - LOOP 4 (FIG NO A-RC-4)</u>						
101150	2 16-IN. BRANCH CONNECTION	B-J B9.31	PT UT0L UT45 UT45T UT24	200-1/69 800-116/2  800-118/2	- - X X - - X - - X - - X - -	ONE CODE ALLOWABLE PT INDICATION. SEE CNF 005. LIMITED UT DUE TO COMPONENT CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CCSS-18/SS-83**
101160	3 PIPE TO ELBOW	B-J B9.11	PT UT0L UT0W UT45 UT45T	200-1/69 800-116/2	X - - X - - X - - X - - X - -	**CCSS-18/CSS-80**
101170	4 ELBOW TO SG INLET NOZZLE (FW0028)	B-F B5.130	PT UT0L UT45 UT45T UT0L UT0W UT45 UT45T UT60	200-1/69 800-116/2  600-31/19	X - - X - - - X - X - - X - - X - - X - - X - - X - -	LIMITED UT45 ON THE WELD AND NO UT45T ON THE ELBOW SIDE DUE TO WELD CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CS-78/SS-79/CSS-80**
<u>27.5-RC-2103-NSS - LOOP 1 (FIG NO A-RC-1)</u>						
101270	1 REACTOR COOLANT PUMP TO PIPE (FW0003)	B-J B9.11	PT UT0L UT0W UT45 UT45T	200-1/69 800-116/2	X - - X - - X - - - X - X - -	LIMITED UT45 ON BOTH SIDES AND NO UT45T ON THE WELD AND PIPE SIDE DUE TO WELD CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CCSS-17/CSS-80**
101280	2 2-IN. BRANCH CONNECTION	B-J B9.32	PT	200-1/69	X - -	

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	METHOD	O G T	
			ITEM NO		R E H	
					E O E	**CALIBRATION BLOCK**
					C M R	
-----						
<u>27.5-RC-2103-NSS - LOOP 1 (FIG NO A-RC-1)</u>						
101290	3	B-J	PT	200-1/69	X - -	NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-77**
	4-IN. BRANCH CONNECTION	B9.31	UT35	800-118/2	X - -	
101300	4	B-J	PT	200-1/69	X - -	**CCSS-17/CSS-80**
	12-IN. BRANCH CONNECTION	B9.31	UT0L	800-116/2	X - -	
			UT0W		X - -	
			UT45		X - -	
			UT45T		X - -	
101310	5	B-J	PT	200-1/69	X - -	NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-77**
	4-IN. BRANCH CONNECTION	B9.31	UT35	800-118/2	X - -	
101320	6	B-J	PT	200-1/69	X - -	**CCSS-17/CSS-80**
	PIPE TO ELBOW	B9.11	UT0L	800-116/2	X - -	
			UT0W		X - -	
			UT45		X - -	
			UT45T		X - -	
101330	7	B-J	PT	200-1/69	X - -	UT PERFORMED FROM THE ID SURFACE WITH MECHANIZED TECHNIQUE AND FROM THE OD SURFACE WITH MANUAL TECHNIQUE. **MJ-44/CSS-80**
	ELBOW TO RPV SAFE END	B9.11	UT0L	800-116/2	X - -	
	(FL0004)		UT0W		X - -	
			UT45T		X - -	
			UT0L	800-111/1	X - -	
			UT50/70		X - -	
			UT50/70T		X - -	

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NUMBER IDENTIFICATION		SEC. XI	CATGY EXAM	PROCEDURE	O	G	T
-----		ITEM NO	METHOD		R	E	H
					E	O	E
					C	M	R
					-	-	-
							REMARKS
							**CALIBRATION BLOCK**
							-----
<u>27.5-RC-2203-NSS - LOOP 2 (FIG. NO. A-RC-2)</u>							
101430	1	B-J	PT	200-1/69	X	-	LIMITED UT45 ON BOTH SIDES AND NO UT45T
	REACTOR COOLANT PUMP TO PIPE	B9.11	UTOL	800-116/2	X	-	ON WELD AND PIPE SIDE DUE TO WELD
	(FW0009)		UTOW		X	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45		-	X	REPORT.
			UT45T		X	-	**CCSS-17/CSS-80**
101440	2	B-J	PT	200-1/69	X	-	
	2-IN. BRANCH CONNECTION	B9.32					
101450	3	B-J	PT	200-1/69	X	-	
	12-IN. BRANCH CONNECTION	B9.31	UTOL	800-116/2	X	-	
			UTOW		X	-	
			UT45		-	X	
			UT45T		X	-	**CCSS-17/CCSS-80**
101460	4	B-J	PT	200-1/69	X	-	
	PIPE TO ELBOW	B9.11	UTOL	800-116/2	X	-	
			UTOW		X	-	
			UT45		X	-	
			UT45T		X	-	**CCSS-17/CSS-80**
101470	5	B-J	PT	200-1/69	X	-	UT PERFORMED FROM THE ID SURFACE WITH
	ELB/W TO RPV SAFE END	B9.11	UTOL	800-116/2	X	-	MECHANIZED TECHNIQUE AND FROM THE OD
	(FW0010)		UTOW		-	X	SURFACE WITH MANUAL TECHNIQUE. ONE UTOW
			UT45T		X	-	CODE ALLOWABLE INDICATION. SEE CNF 076.
			UTOL	800-111/1	X	-	**NU-44/CSS-80**
			UT50/70		X	-	
			UT50/70T		X	-	

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>27.5-RC-2303-NSS - LOOP 3 (FIG NO A-RC-3)</u>							
101570	1	B-J	PT	200-1/69	X	-	-
	REACTOR COOLANT PUMP TO PIPE	89.11	UT0L	800-116/2	X	-	-
	(FW0019)		UTOW		X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**CCSS-17/CSS-80**
101580	2	B-J	PT	200-1/69	X	-	-
	2-IN. BRANCH CONNECTION	89.32					
101590	3	B-J	PT	200-1/69	X	-	-
	12-IN. BRANCH CONNECTION	89.31	UT0L	800-116/2	X	-	-
			UTOW		X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**CCSS-17/CSS-80**
101600	4	B-J	PT	200-1/69	X	-	-
	4-IN. BRANCH CONNECTION	89.31	UT35	800-118/2	X	-	-
							NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION. SEE APPENDIX L OF THIS REPORT.
							**SS-77**
101610	5	B-J	PT	200-1/69	X	-	-
	PIPE TO ELBOW	89.11	UT0L	800-116/2	X	-	-
			UTOW		X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**CCSS-17/CSS-80**
101620	6	B-J	PT	200-1/69	X	-	-
	ELBOW TO RPV SAFE END	89.11	UT0L	800-116/2	X	-	-
	(FW0020)		UTOW		-	-	X
			UT45T		X	-	-
			UT0L	800-111/1	X	-	-
			UT50/70		X	-	-
			UT50/70T		X	-	-
							UT PERFORMED FROM THE ID SURFACE WITH MECHANIZED TECHNIQUE AND FROM THE OD SURFACE WITH MANUAL TECHNIQUE. THREE UTOW CODE ALLOWABLE INDICATIONS. SEE CNF 078.
							**MU-44/CSS-80**

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		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----								
<u>27.5-RC-2403-NSS - LOOP 4 (FIG NO A-RC-4)</u>								
101720	1 REACTOR COOLANT PUMP TO PIPE (FW0025)	B-J 89.11	PT UT0L UTOW UT45 UT45T	200-1/69 800-116/2	X	-	-	LIMITED UT45 ON BOTH SIDES AND NO UT45T ON THE WELD DUE TO WFLD CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **CCSS-17/CSS-80**
101730	2 2-IN. BRANCH CONNECTION	B-J 89.32	PT	200-1/69	X	-	-	
101740	3 4-IN. BRANCH CONNECTION	B-J 89.31	PT UT35	200-1/69 800-118/2	X	-	-	NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-77**
101745	4 4-IN. BRANCH CONNECTION	B-J 89.31	PT UT35	200-1/69 800-118/2	X	-	-	NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-77**
101750	5 PIPE TO ELBOW	B-J 89.11	PT UT0L UTOW UT45 UT45T	200-1/69 800-116/2	X	-	-	LIMITED UT45T ON THE WELD AND PIPE SIDE DUE TO WELD CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **CCSS-17/CSS-80**
101760	6 ELBOW TO RPV SAFE END (FW0026)	B-J 89.11	PT UT0L UTOW UT0L UT50/70 UT50/70T	200-1/69 800-116/2 800-111/1	X	-	-	UT PERFORMED FROM THE ID SURFACE WITH MECHANIZED TECHNIQUE AND FROM THE OD SURFACE WITH MANUAL TECHNIQUE.  **MJ-44/CSS-80**

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					E	U	E	
		ITEM NO			C	M	R	**CALIBRATION BLOCK**
<u>16-RC-2412-NSS (FIG NO A-RC-5)</u>								
101860	1 SAFE END TO BENT PIPE (FW-PSL-04)	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X -	- -	- -	**SS-16**
101880	2 BENT PIPE TO ELBOW (SURGE 3 - SW0003)	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X -	- -	- -	**SS-16**
101890	3 ELBOW TO PIPE (FW-PSL-03)	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X -	- -	- -	**SS-16**
101900	4 PIPE TO ELBOW (SURGE 1 - SW0004)	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X -	- -	- -	**SS-16**
101910	5 ELBOW TO PIPE (RC-TE-609)	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X -	- -	- -	**SS-16**

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	M O			REMARKS
			C	M	R	

16-RC-2412-NSS (FIG NO A-RC-5)

101920 6	B-J	PT	200-1/69	X	-	-	
PIPE TO BENT PIPE (FW-PSL-02)	89.11	UT0L	800-114/2	X	-	-	
		UT45		-	X	-	
		UT45T		X	-	-	
		UT0W	600-31/19	X	-	-	**SS-16**

101930 7	B-J	PT	200-1/69	X	-	-	
BENT PIPE TO BENT PIPE (SURGE 2 - SW0002)	89.11	UT0L	800-114/2	X	-	-	
		UT45		-	X	-	
		UT45T		X	-	-	**SS-16**

101940 8	B-J	PT	200-1/69	X	-	-	
PIPE TO BRANCH CONNECTION (FW-PSL-01)	89.11	UT0L	800-114/2	X	-	-	
		UT45		-	X	-	
		UT45T		X	-	-	
		UT0W	600-31/19	X	-	-	**SS-16**

12-RC-2112-881 (FIG NO A-RC-8)

102030 1	B-J	PT	200-1/69	X	-	-	
BRANCH CONNECTION TO PIPE (FW0001)	89.11	UT0L	800-114/2	X	-	-	
		UT45		X	-	-	
		UT45T		X	-	-	**SS-21**

102040 2	B-J	PT	200-1/69	X	-	-	
PIPE TO ELBOW (A-SW0006)	89.11	UT0L	800-114/2	X	-	-	
		UT45		X	-	-	
		UT45T		X	-	-	**SS-21**



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					C	M	R	
-----								
<u>12-RC-2112-BB1 (FIG NO A-RC-B)</u>								
102050 3	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(A-SW0005)		UT45			X	-	-	
		UT45T			X	-	-	**SS-21**
102060 4	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		800-114/2	X	-	-	
(A-SW0004)		UT45			X	-	-	
		UT45T			X	-	-	**SS-21**
102070 5	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(A-SW0003)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
102080 6	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		800-114/2	X	-	-	
(A-SW0002)		UT45			X	-	-	
		UT45T			X	-	-	
		UTOW		600-31/19	X	-	-	**SS-21**
		UT60			-	X	-	
102090 7	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(FW0002)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**

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		SEC. XI			O	G		
		CATGY	EXAM		R	E		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>12-RC-2112-BB1 (FIG NO A-RC-8)</u>								
102100	8	B-J	PT	200-1/69	X	-	-	
	PIPE TO PIPE	B9.11	UTOL	800-114/2	X	-	-	
	(FW0003)		UT45		X	-	-	
			UT45T		X	-	-	**SS-21**
102110	9	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	B9.11	UTOL	800-114/2	X	-	-	
	(C-SW0002)		UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102120	10	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	B9.11	UTOL	800-114/2	X	-	-	
	(C-SW0003)		UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102130	11	B-J	PT	200-1/69	X	-	-	
	PIPE TO VALVE	B9.11	UTOL	800-114/2	X	-	-	
	(FW0004)		UT45		-	X	-	
			UT45T		X	-	-	
			UTOW	600-31/19	X	-	-	**SS-21**
<u>12-RC-2125-BB1 (FIG NO A-RC-9)</u>								
102230	1	B-J	PT	200-1/69	X	-	-	
	VALVE TO PIPE	B9.11	UTOL	800-114/2	X	-	-	
	(FW0001)		UT45		-	X	-	
			UT45T		X	-	-	
			UTOW	600-31/19	X	-	-	**SS-21**
			UT60		-	X	-	

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					E O E	C M R		
-----								
<u>12-RC-2125-8B1 (FIG NO A-RC-9)</u>								
102240 2	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UT0L		800-114/2	X	-	-	
(A-SW0006)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
102250 3	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UT0L		800-114/2	X	-	-	
(A-SW0005)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
102260 4	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UT0L		800-114/2	X	-	-	
(A-SW0004)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
102270 5	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UT0L		800-114/2	X	-	-	
(A-SW0003)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
102280 6	B-J	PT		100-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UT0L		800-114/2	X	-	-	
(A-SW0002)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**

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NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O	G	T	
		CATGY	ITEM NO	METHOD	R	E	H	
					E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>12-RC-2125-BB1 (FIG NO A-RC-9)</u>								
102290	7	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	B9.11	UT0L	800-114/2	X	-	-	
	(FW0005)		UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102300	8	B-J	PT	200-1/69	X	-	-	
	PIPE TO PIPE	B9.11	UT0L	800-114/2	X	-	-	
	(FW0005A)		UT45		X	-	-	
			UT45T		X	-	-	**SS-21**
102310	9	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	B9.11	UT0L	500-114/2	X	-	-	
	(C-SW0002)		UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102320	10	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	B9.11	UT0L	800-114/2	X	-	-	
	(FW0006)		UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102330	11	B-J	PT	200-1/69	X	-	-	
	PIPE TO PIPE	B9.11	UT0L	800-114/2	X	-	-	
	(D-SW0005)		UT45		-	X	-	
			UT45T		X	-	-	**SS-21**

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NUMBER	IDENTIFICATION	SEC. XI	METHOD		O	G	
		CATGY			R	E	
		ITEM NO			E	O	
					C	M	**CALIBRATION BLOCK**
<u>12-RC-2125-BB1 (FIG NO A-RC-9)</u>							
102340	12	B-J	PT	200-1/69	X	-	
	PIPE TO ELBOW	B9.11	UTOL	800-114/2	X	-	
	(D-SW0003)		UT45		-	X	
			UT45T		X	-	**SS-21**
102350	13	B-J	PT	200-1/69	X	-	
	ELBOW TO PIPE	B9.11	UTOL	800-114/2	X	-	
	(FS0001)		UT45		-	X	
			UT45T		X	-	**SS-21**
102360	14	B-J	PT	200-1/69	X	-	
	PIPE TO BRANCH CONNECTION	B9.11	UTOL	800-114/2	X	-	
	(FW0010)		UT45		X	-	
			UT45T		X	-	
			UTOW	600-31/19	X	-	**SS-21**
			UT60		-	X	
<u>12-RC-2212-BB1 (FIG NO A-RC-10)</u>							
102450	1	B-J	PT	200-1/69	X	-	
	BRANCH CONNECTION TO PIPE	B9.11	UTOL	800-114/2	X	-	
	(FW0001)		UT45		-	X	
			UT45T		X	-	**SS-21**
102460	2	B-J	PT	200-1/69	X	-	
	PIPE TO ELBOW	B9.11	UTOL	800-114/2	X	-	
	(A-SW0002)		UT45		-	X	
			UT45T		X	-	**SS-21**

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					C	M	R	
-----								
<u>12-RC-2212-881 (FIG NO A-RC-10)</u>								
102470 3 ELBOW TO PIPE (A-SW0003)	B-J 89.11	PT UTOL UT45 UT45T		200-1/69 800-114/2	X X - X	- - X -	- - - -	**SS-21**
102480 4 PIPE TO ELBOW (A-SW0004)	B-J 89.11	PT UTOL UT45 UT45T		200-1/69 800-114/2	X X - X	- - X -	- - - -	**SS-21**
102490 5 ELBOW TO PIPE (A-SW0005)	B-J 89.11	PT UTOL UT45 UT45T UTOW UT45		200-1/69 800-114/2 600-31/19	X X - X X -	- - X - - -	- - - - - -	**SS-21**
102510 6 PIPE TO ELBOW (A-SW0006)	B-J 89.11	PT UTOL UT45 UT45T		200-1/69 800-114/2	X X - X	- - X -	- - - -	**SS-21**
102520 7 ELBOW TO PIPE (FW0002)	B-J 89.11	PT UTOL UT45 UT45T		200-1/69 800-114/2	X X - X	- - X -	- - - -	**SS-21**

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**
<u>12-RC-2212-881 (FIG NO A-RC-10)</u>								
102530 8 PIPE TO VALVE (FW0003)	B-J 89.11	PT UT0L UT45 UT45T UT0W UT60		200-1/69 800-114/2  600-31/19	X - - X - - - X - X - - X - - - X -		LIMITED UT45/UT60 ON THE VALVE SIDE DUE TO VALVE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-21**	
<u>12-RC-2221-881 (FIG NO A-RC-9)</u>								
102630 1 VALVE TO PIPE (FW0001)	B-J 89.11	PT UT0L UT45 UT45T UT0W UT60		200-1/69 800-114/2  600-31/19	X - - X - - - X - X - - X - - - X -		LIMITED UT45/UT60 ON THE VALVE SIDE DUE TO VALVE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-21**	
102640 2 PIPE TO ELBOW	B-J 89.11	PT UT0L UT45 UT45T		200-1/69 800-114/2	X - - X - - - X - X - -		**SS-21**	
102650 3 ELBOW TO PIPE	B-J 89.11	PT UT0L UT45 UT45T		200-1/69 800-114/2	X - - X - - X - - X - -		**SS-21**	
102660 4 PIPE TO ELBOW	B-J 89.11	PT UT0L UT45 UT45T		200-1/69 800-114/2	X - - X - - - X - X - -		**SS-21**	





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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----		-----		-----		-----
<u>12-RC-2221-BB1 (FIG NO A-RC-9)</u>								
102740	12	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102750	13	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UTOL	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102760	14	B-J	PT	200-1/69	X	-	-	
	PIPE TO BRANCH CONNECTION	89.11	UTOL	800-114/2	X	-	-	
	(FW001)		UT45		X	-	-	
			UT45T		X	-	-	**SS-21**
<u>12-RC-2312-BB1 (FIG NO A-RC-8)</u>								
102860	1	B-J	PT	200-1/69	X	-	-	
	BRANCH CONNECTION TO PIPE	89.11	UTOL	800-114/2	X	-	-	
	(FW0001)		UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102870	2	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X	-	-	
	(A-SW0007)		UT45		-	X	-	
			UT45T		X	-	-	**SS-21**

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					E	G		T	R	E	H
-----											
<u>12-RC-2312-8B1 (FIG NO A-RC-8)</u>											
102880 3			PT	200-1/69	X	-					
ELBOW TO PIPE				800-114/2	X	-					
(A-SW0006)					-	X					
					X	-	**SS-21**				
102890 4				200-1/69	X	-					
PIPE TO ELBOW				800-114/2	X	-					
(A-SW0005)					-	X					
					X	-	**SS-21**				
102900 5			PT	200-1/69	X	-					
ELBOW TO PIPE			UTOL	800-114/2	X	-					
(A-SW0004)			UT4F		-	X					
			UT4S		X	-	**SS-21**				
102910 6			PT	200-1/69	X	-					
PIPE TO ELBOW			UTOL	800-114/2	X	-					
(A-SW0003)			UT4S		-	X					
			UT4S		X	-	**SS-21**				
102920 7			PT	200-1/69	X	-					
ELBOW TO PIPE			UTOL	800-114/2	X	-					
(A-SW0002)			UT4S		-	X					
			UT4ST		X	-	**SS-21**				

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					O	G	T	
					R	E	H	
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>12-RC-2312-BB1 (FIG NO A-RC-8)</u>								
102930	8	B-J	PT	200-1/69	X	-	-	
	PIPE TO PIPE	89.11	UT0L	800-114/2	X	-	-	
	(FW0002)		UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102940	9	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-	
	(FW0003)		UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102950	10	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
102960	11	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
	PIPE TO VALVE	89.11	UT0L	800-114/2	X	-	-	TO VALVE CONFIGURATION. SEE APPENDIX L
	(FW0004)		UT45		-	X	-	OF THIS REPORT.
			UT45T		X	-	-	
			UT0W	600-31/19	X	-	-	**SS-21**
			UT60		-	X	-	
<u>12-RC-2322-BB1 (FIG NO A-RC-11)</u>								
103060	1	B-J	PT	200-1/69	X	-	-	
	VALVE TO PIPE	89.11	UT0L	800-114/2	X	-	-	
	(FW0003)		UT45		-	X	-	
			UT45T		X	-	-	
			UT0W	600-31/19	X	-	-	**SS-21**
			UT60		-	X	-	

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NUMBER	IDENTIFICATION	SEC. XI	METHOD			
		CATGY	ITEM NO			**CALIBRATION BLOCK**
<u>12-RC-2322-881 (FIG NO A-RC-11)</u>						
103070	2	B-J	PT	200-1/69	X - -	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X - -	
	(FSB493)		UT45		- X -	
			UT45T		X - -	**SS-21**
103080	3	B-J	PT	200-1/69	X - -	
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X - -	
			UT45		- X -	
			UT45T		X - -	**SS-21**
103090	4	B-J	PT	200-1/69	X - -	
	PIPE TO BRANCH CONNECTION	89.11	UT0L	800-114/2	X - -	
	(FW0005)		UT45		- X -	
			UT45T		X - -	
			UT0W	600-31/19	X - -	**SS-21**
			UT60		- X -	
<u>8-RC-2114-881 (FIG NO A-RC-12)</u>						
103190	1	B-J	PT	200-1/69	X - -	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
	VALVE TO PIPE	89.11	UT0L	800-114/2	X - -	TO VALVE CONFIGURATION. SEE APPENDIX L
	(FW0001)		UT45		- X -	OF THIS REPORT.
			UT45T		X - -	
			UT0W	600-31/19	X - -	**SS-11**
			UT60		- X -	
103200	2	B-J	PT	200-1/69	X - -	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X - -	
			UT45		- X -	
			UT45T		X - -	**SS-11**



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NUMBER	IDENTIFICATION	SEC. XI	METHOD				
-----							
<u>B-R: 2214-881 (FIG NO A-RC-12)</u>							
103350	2 PIPE TO ELBOW	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X - - X - - - X - X - -		**SS-11**
103360	3 ELBOW TO PIPE	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X - - X - - - X - X - -		**SS-11**
103370	4 PIPE TO ELBOW	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X - - X - - - X - X - -		**SS-11**
103380	5 ELBOW TO PIPE	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X - - X - - - X - X - -		**SS-11**
103390	6 PIPE TO BRANCH CONNECTION (FW0002)	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X - - X - - - X - X - -		**SS-11**

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----								
<u>B-RC-2324-BB1 (FIG NO A-RC-12)</u>								
103500	1	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
	VALVE TO PIPE	89.11	UT0L	800-114/2	X	-	-	TO VALVE CONFIGURATION. SEE APPENDIX L
	(FW0001)		UT45		-	X	-	OF THIS REPORT.
			UT45T		X	-	-	
			UT0W	600-31/19	X	-	-	**SS-11**
			UT60		-	X	-	
103510	2	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-	
	(A-SW0005)		UT45		X	-	-	
			UT45T		X	-	-	**SS-11**
103520	3	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-	
	(A-SW0004)		UT45		-	X	-	
			UT45T		X	-	-	**SS-11**
103530	4	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-	
	(A-SW0003)		UT45		-	X	-	
			UT45T		X	-	-	**SS-11**
103540	5	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-	
	(A-SW0002)		UT45		-	X	-	
			UT45T		X	-	-	**SS-11**

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>8-RC-2324-BB1 (FIG NO A-RC-12)</u>								
103550	6	B-J	PT	200-1/69	X	-	-	
	PIPE TO BRANCH CONNECTION	B9.11	UT <sub>GL</sub>	800-114/2	X	-	-	
	(FW0002)		UT45		-	X	-	
			UT45T		X	-	-	**SS-11**
<u>6-RC-2003-BB1 (FIG NO A-RC-13)</u>								
103650	1	B-J	PT	200-1/69	X	-	-	
	REDUCER TO PIPE	B9.11	UT <sub>OL</sub>	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-8**
103660	2	B-J	PT	200-1/69	X	-	-	
	PIPE TO REDUCING TEE	B9.11	UT <sub>OL</sub>	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
			UT <sub>OW</sub>	600-31/19	X	-	-	**SS-8**
			UT45		X	-	-	
103670	3	B-J	PT	200-1/69	X	-	-	
	REDUCING TEE TO PIPE	B9.11	UT <sub>OL</sub>	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
			UT <sub>OW</sub>	600-31/19	X	-	-	**SS-8**
103680	4	B-J	PT	200-1/69	X	-	-	
	PIPE TO REDUCING TEE	B9.11	UT <sub>OL</sub>	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
			UT <sub>OW</sub>	600-31/19	X	-	-	**SS-8**
			UT45		X	-	-	



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					C	M	R	
-----								
<u>6-RC-2003-BB1 (FIG NO A-RC-13)</u>								
103690 5	B-J	PT		200-1/69	X	-	-	
REDUCING TEE TO PIPE	89.11	UTOL		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			-	-	-	
		UTOW		600-31/19	X	-	-	**SS-8**
		UT45			X	-	-	
103700 6	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	89.11	UTOL		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-8**
103710 7	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	89.11	UTOL		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-8**
103720 8	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	89.11	UTOL		800-114/2	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	**SS-8**
103730 9	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	89.11	UTOL		800-114/2	X	-	-	
(FW0010)		UT45			-	X	-	
		UT45T			X	-	-	**SS-8**

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>6-RC-2003-BB1 (FIG NO A-RC-13)</u>								
103740	10	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-	
	(FW0011)		UT45		-	X	-	
			UT45T		X	-	-	**SS-8**
103750	11	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-8**
103760	12	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-8**
103770	13	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-8**
103780	14	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 ON THE SAFE END SIDE
	PIPE TO SAFE END	89.11	UT0L	800-114/2	X	-	-	DUE TO WELD CONFIGURATION. SEE APPENDIX
	(FW0012)		UT45		-	X	-	L OF THIS REPORT.
			UT45T		X	-	-	
			UTOW	600-31/15	X	-	-	**SS-8**
			UT60		-	X	-	



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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

6-RC-2004-NSS (FIG NO A-RC-6)

103930	6	B-J	PT	200-1/69	X	-	-	
	RETURN TO PIPE	B9.11	UT0L	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-9**
103940	7	B-J	PT	200-1/69	-	-	X	ONE LINEAR PT INDICATION. SEE CNF C38.
	PIPE TO FLANGED VALVE	B9.11	UT0L	800-114/2	X	-	-	REEXAMINATION REVEALED NO RECORDABLE
			UT45		X	-	-	INDICATIONS.
			UT45T		X	-	-	**SS-9**
			UT0W	600-31/19	X	-	-	
103950	7FB	B-G-2	VT	900-7/11	X	-	-	
	FLANGE BOLTING	B7.50						

6-RC-2009-NSS (FIG NO A-RC-6)

104040	1	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 ON BOTH SIDE DUE TO
	SAFE END TO ELBOW	B9.11	UT0L	800-114/2	X	-	-	WELD CONFIGURATION. SEE APPENDIX L OF
			UT45		X	-	-	THIS REPORT.
			UT45T		X	-	-	
			UT0W	600-31/19	X	-	-	**SS-9**
			UT60		X	-	-	
104050	2	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	B9.11	UT0L	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-9**

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	METHOD	UTOL	PROCEDURE	
		ITEM NO			C	M	
					R	R	
-----							
<u>6-RC-2009-NSS (FIG NO A-RC-6)</u>							
104060	3	B-J	PT	200-1/69	X	-	
	PIPE TO RETURN	89.11	UTOL	800-114/2	X	-	
			UT45		X	-	
			UT45T		X	-	**SS-Q**
104070	4	B-J	PT	200-1/69	X	-	
	RETURN TO PIPE	89.11	UTOL	800-114/2	X	-	
			UT45		X	-	
			UT45T		X	-	**SS-Q**
104080	5	B-J	PT	200-1/69	X	-	
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X	-	
			UT45		X	-	
			UT45T		X	-	**SS-Q**
104090	6	B-J	PT	200-1/69	X	-	
	ELBOW TO PIPE	89.11	UTOL	800-114/2	X	-	
			UT45		X	-	
			UT45T		X	-	**SS-Q**
104100	7	B-J	PT	200-1/69	X	-	
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X	-	
			UT45		X	-	
			UT45T		X	-	**SS-Q**

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		SEC. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		

6-RC-2009-NSS (FIG NO A-RC-6)

104110	8	B-J	PT	200-1/69	X	-	-			
	ELBOW TO PIPE	B9.11	UT0L	800-114/2	X	-	-			
			UT45		X	-	-			
			UT45T		X	-	-			
								**SS-Q**		

104120	9	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 ON THE VALVE SIDE DUE		
	PIPE TO FLANGED VALVE	B9.11	UT0L	800-114/2	X	-	-	TO VALVE CONFIGURATION. SEE APPENDIX L		
			UT45		X	-	-	OF THIS REPORT.		
			UT45T		X	-	-			
			UT0W	600-31/19	X	-	-			
			UT60		X	-	-			
								**SS-Q**		

104130	9FB	B-G-2	VT	900-7/11	X	-	-		
	FLANGE BOLTING	B7.50							

6-B-2012-NSS (FIG NO A-RC-6)

104220	1	B-J	PT	200-1/69	X	-	-			
	SAFE END TO ELBOW	B9.11	UT0L	800-114/2	X	-	-			
			UT45		-	X	-			
			UT45T		X	-	-			
								**SS-Q**		

104230	2	B-J	PT	200-1/69	X	-	-			
	ELBOW TO PIPE	B9.11	UT0L	800-114/2	X	-	-			
			UT45		X	-	-			
			UT45T		X	-	-			
								**SS-Q**		

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NUMBER	IDENTIFICATION	SEC. XI CATGY ITEM NO	METHOD			**CALIBRATION BLOCK**
<u>6-RC-2012-NSS (FIG NO A-RC-6)</u>						
104240	3 PIPE TO ELBOW	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X - - X - - X - - X - -	**SS-Q**
104250	4 ELBOW TO PIPE	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X - - X - - X - - X - -	**SS-Q**
104260	5 PIPE TO PIPE	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X - - X - - - X - X - -	**SS-Q**
104270	6 PIPE TO BENT PIPE	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X - - X - - - X - X - -	**SS-Q**
104280	7 BENT PIPE TO PIPE	B-J 9.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X - - X - - X - - X - -	**SS-Q**

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NUMBER	IDENTIFICATION	SEC. XI	METHCD		OGT	
		CAIGY			REH	
		ITEM NO			EOE	
					JMR	**CALIBRATION BLOCK**

6-RC-2012-NSS (FIG NO A-RC-6)

104290	8	B-J	PT	200-1/69	X - -	
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X - -	
			UT45		X - -	
			UT45T		X - -	**SS-9**

104300	9	J-J	PT	200-1/69	X - -	
	ELBOW TO PIPE	89.11	UTOL	800-114/2	X - -	
			UT45		X - -	
			UT45T		X - -	**SS-9**

104310	10	J-J	PT	200-1/69	X - -	
	PIPE TO RETURN	89.11	UTOL	800-114/2	X - -	
			UT45		X - -	
			UT45T		X - -	**SS-9**

104320	11	B-J	PT	200-1/69	X - -	
	RETURN TO FLANGED VALVE	89.11	UTOL	800-114/2	X - -	
			UT45		X - -	
			UT45T		X - -	
			UTOW	600-31/19	X - -	**SS-9**

104330	11FB	B-C-2	VT	900-7/11	X - -	
	FLANGE BOLTING	87.50				

6-RC-2013-NSS (FIG NO A-RC-7)

104420	1	B-J	PT	200-1/69	X - -	ONC UTOW CODE ALLOWABLE INDICATION. SEE
	SAFE END TO BENT PIPE	89.11	UTOL	800-114/2	X - -	CNF 075.
			UT45		X - -	
			UT45T		X - -	
			UTOW	600-31/19	- - X	**SS-9**



REACTOR COOLANT SYSTEM

				M	O			
				O	G	T		
				R	E	H		
SUMMARY EXAMINATION AREA				E	O	E	REMARKS	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
-----								-----
<u>A-RC-2015-NSS (FIG NO A-RC-7)</u>								
104430	2	B-J	PT	200-1/69	X	-	-	
	BENT PIPE TO PIPE	89.11	UTOL	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-Q**
104440	3	B-J	PT	200-1/69	-	-	X	THREE LINEAR PT INDICATIONS. SEE CNF
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X	-	-	069, REEXAMINATION REVEALED NO
			UT45		X	-	-	RECORDABLE INDICATIONS.
			UT45T		-	X	-	
					X	-	-	**SS-Q**
104450	4	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UTOL	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-Q**
104460	5	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-Q**
104470	6	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UTOL	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-Q**

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIFAATION BLOCK**
-----					-	-	-	-----
<u>6-RC-2015-NSS (FIG NO A-RC-7)</u>								
104480	7	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-Q**
104490	8	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UTOL	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-Q**
104500	9	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-Q**
104510	10	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UTOL	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-Q**
104520	11	B-J	PT	200-1/69	X	-	-	
	PIPE TO TEE	89.11	UTOL	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
			UTOW	600-31/19	X	-	-	**SS-Q**
			UT60		-	X	-	



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					E	O	C	
-----								
<u>4-RC-2000-BB1 (FIG NO A-RC-14)</u>								
104670 2	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UT0L		600-31/19	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
104680 3	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UT0L		600-31/19	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
104690 4	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UT0L		600-31/19	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
104700 5	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UT0L		600-31/19	X	-	-	
(FW0002)		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
104710 6	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UT0L		600-31/19	X	-	-	
(FS10430)		UT45			X	-	-	
		UT45T			X	-	-	**SS-7**

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	ME/HOD	PROCEDURE	N O			REMARKS
					E O E	C M R		
-----								
**CALIBRATION BLOCK**								
-----								

4-RC-2000-881 (FIG NO A-RC-14)

104720 7	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		600-31/19	X	-	-	
(B-SW0002)		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**

104730 8	B-J	PT		200-1/69	X	-	-	
PIPE TO REDUCING TEE	B9.11	UTOL		600-31/19	X	-	-	
(FW0003)		UT0W			X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**

4-RC-2003-881 (FIG NO A-RC-13)

104830 1	B-J	PT		200-1/69	X	-	-	NO UT45T ON THE VALVE SIDE DUE TO VALVE
VALVE TO PIPE	B9.11	UTOL		600-31/19	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
(FW0009)		UT45			-	X	-	REPORT.
		UT45T			X	-	-	**SS-6**

104840 2	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		600-31/19	X	-	-	
(FS10432)		UT45			-	X	-	
		UT45T			X	-	-	**SS-6**
		UT45T						

104850 3	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		600-31/19	X	-	-	
(FS10431)		UT45			X	-	-	
		UT45T			X	-	-	**SS-6**

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O			REMARKS
					E O E	C M R		
-----								
<u>4-RC-2003-BB1 (FIG NO A-RC-13)</u>								
104860 4	B-J	PT		200-1/69	X	-	-	
PIPE TO REDUCER	B9.11	UTOL		600-31/19	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	***SS-6**
-----								
<u>4-RC-2123-BB1 (FIG NO A-RC-14)</u>								
104960 1	B-J	PT		200-1/69	X	-	-	ONE UTOW CODE ALLOWABLE INDICATIONS.
BRANCH CONNECTION TO PIPE	B9.11	UTOL		600-31/19	X	-	-	SEE CNF 015.
(FW0001)		UTOW			-	-	X	
		UT45			-	X	-	
		UT45T			X	-	-	***SS-7**
-----								
104980 2	R-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		600-31/19	X	-	-	
(A-SW0002)		UT45			-	X	-	
		UT45T			X	-	-	***SS-7**
-----								
104990 3	B-J	PT		200-1/69	X	-	-	ONE UTOW CODE ALLOWABLE INDICATION. SEE
ELBOW TO PIPE	B9.11	UTOL		600-31/19	X	-	-	CNF 016.
(FW0002)		UTOW			-	-	X	
		UT45			-	X	-	
		UT45T			X	-	-	***SS-7**
-----								
105000 4	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		600-31/19	X	-	-	
(B-SW0002)		UT45			-	X	-	
		UT45T			X	-	-	***SS-7**

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NUMBER	IDENTIFICATION	SEC. XI	METHOD		O	G	
		CATGY			R	E	
		ITEM NO			E	O	
					C	M	**CALIBRATION BLOCK**
					R		
<u>4-RC-2123-BB1 (FIG NO A-RC-14)</u>							
105010	5	R-J	PT	200-1/69	X	-	
	ELBOW TO PIPE	89.11	UTOL	600-31/19	X	-	
	(B-SW0003)		UT45		-	X	
			UT45T		X	-	**SS-7**
105015	6	B-J	PT	200-1/69	X	-	
	PIPE TO PIPE	89.11	UTOL	600-31/19	X	-	
	(B-SW0004)		UT45		-	X	
			UT45T		X	-	**SS-7**
			UT45T				
105020	7	B-J	PT	200-1/69	X	-	
	PIPE TO ELBOW	89.11	UTOL	600-31/19	X	-	
	(FW0003)		UT45		-	X	
			UT45T		X	-	**SS-7**
105030	8	B-J	PT	200-1/69	X	-	
	ELBOW TO PIPE	89.11	UTOL	600-31/19	X	-	
	(C-SW0002)		UT45		-	X	
			UT45T		X	-	**SS-7**
105040	9	B-J	PT	200-1/69	X	-	
	PIPE TO PIPE	89.11	UTOL	600-31/19	X	-	
	(FW0004)		UT45		-	X	
			UT45T		X	-	**SS-7**

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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
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<u>4-RC-2123-BB1 (FIG NO A-RC-14)</u>								
105050	10 PIPE TO ELBOW (FW0005)	B-J 89.11	PT UT0L UT45 UT45T	200-1/69 600-31/19	X	-	-	
					-	X	-	**SS-7**
					X	-	-	
105060	11 ELBOW TO PIPE (E-SW0002)	B-J 89.11	PT UT0L UT45 UT45T	200-1/69 600-31/19	X	-	-	
					-	X	-	**SS-7**
					X	-	-	
105070	12 PIPE TO ELBOW (E-SW0003)	B-J 89.11	PT UT0L UT0W UT45 UT45T	200-1/69 600-31/19	X	-	-	
					-	X	-	**SS-7**
					X	-	-	
105080	1J ELBOW TO PIPE (FW0006)	B-J 89.11	PT UT0L UT0W UT45 UT45T	200-1/69 600-31/19	X	-	-	
					-	X	-	**SS-7**
					X	-	-	
105090	14 PIPE TO ELBOW (F-SW0002)	B-J 89.11	PT UT0L UT45 UT45T	200-1/69 600-31/19	X	-	-	
					-	X	-	**SS-7**
					X	-	-	



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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G		
		CATGY	EXAM		R	E		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
.....					-	-	-	.....
<u>4-RC-2123-BB1 (FIG NO A-RC-14)</u>								
105100	15	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	B9.11	UTOL	600-31/19	X	-	-	
	(FW0007)		UT45		X	-	-	
			UT45T		X	-	-	
			UT45T					**SS-7**
105110	16	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	B9.11	UTOL	600-31/19	X	-	-	
	(G-SW0002)		UT45		-	X	-	
			UT45T		X	-	-	
								**SS-7**
105120	17	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	B9.11	UTOL	600-31/19	X	-	-	
	(FW0008)		UT45		-	X	-	
			UT45T		X	-	-	
								**SS-7**
105123	17A	B-J	PT	200-1/69	X	-	-	
	PIPE TO PIPE	B9.11	UTOL	600-31/19	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
								**SS-7**
105126	17B	B-J	PT	200-1/69	X	-	-	
	PIPE TO PIPE	B9.11	UTOL	600-31/19	X	-	-	
			UTOW		X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-7**

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>4-RC-2123-BB1 (FIG NO A-RC-14)</u>								
105130	18	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	B9.11	UTOL	600-31/19	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-7**
105140	19	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	B9.11	UTOL	600-31/19	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-7**
105150	20	B-J	PT	200-1/69	X	-	-	NO UT45T ON THE VALVE SIDE DUE TO VALVE
	PIPE TO VALVE	B9.11	UTOL	600-31/19	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
	(FW0009)		UTOW		X	-	-	REPORT.
			UT45		-	X	-	
			UT45T		X	-	-	**SS-7**
<u>4-RC-2126-BB1 (FIG NO A-RC-11)</u>								
105250	1	B-J	PT	200-1/69	X	-	-	NO UT45T ON THE VALVE SIDE DUE TO VALVE
	VALVE TO PIPE	B9.11	UTOL	600-31/19	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
	(FW0001)		UTOW		X	-	-	REPORT.
			UT45		-	X	-	
			UT45T		X	-	-	**SS-7**
105260	2	B-J	PT	200-1/69	X	-	-	LIMITED UT45T ON THE ELBOW SIDE DUE TO
	PIPE TO ELBOW	B9.11	UTOL	600-31/19	X	-	-	ELBOW CONFIGURATION. SEE APPENDIX L OF
	(A-SW0002)		UT45		-	X	-	THIS REPORT.
			UT45T		X	-	-	**SS-7**

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					C	M	R	
-----								
<u>4-RC-2126-BB1 (FIG NO A-RC-11)</u>								
105270 3 ELBOW TO PIPE (A-SW0003)	B-J	PT		200-1/69	X	-	-	LIMITED UT45T ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-7**
	B9.11	UTOL		600-31/19	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	
105280 4 PIPE TO ELBOW (A-SW0004)	B-J	PT		200-1/69	X	-	-	LIMITED UT45T ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-7**
	B9.11	UTOL		600-31/19	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	
105290 5 ELBOW TO PIPE (A-SW0005)	B-J	PT		200-1/69	X	-	-	LIMITED UT45T ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-7**
	B9.11	UTOL		600-31/19	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	
105300 6 PIPE TO BRANCH CONNECTION (FW0002)	B-J	PT		200-1/69	X	-	-	LIMITED UT45T ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-7**
	B9.11	UTOL		600-31/19	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	
<u>4-RC-2320-BB1 (FIG NO A-RC-10)</u>								
105400 1 BRANCH CONNECTION TO PIPE (FW0001)	B-J	PT		200-1/69	X	-	-	LIMITED UT45T ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-7**
	B9.11	UTOL		600-31/19	X	-	-	
		UTOW			X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>4-RC-2320-BB1 (FIG NO A-RC-10)</u>								
105410	2	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	B9.11	UT0L	600-31/19	X	-	-	
	(A-SW0007)		UT45		-	X	-	
			UT45T		X	-	-	**SS-7**
105420	3	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	B9.11	UT0L	600-31/19	X	-	-	
	(A-SW0006)		UT45		X	-	-	
			UT45T		X	-	-	**SS-7**
105430	4	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	B9.11	UT0L	600-31/19	X	-	-	
	(A-SW0005)		UT45		-	X	-	
			UT45T		X	-	-	**SS-7**
105440	5	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	B9.11	UT0L	600-31/19	X	-	-	
	(A-SW0004)		UT45		-	X	-	
			UT45T		X	-	-	**SS-7**
105450	6	B-J	PT	200-1/69	X	-	-	
	PIPE TO REDUCING TEE	B9.11	UT0L	600-31/19	X	-	-	
	(A-SW0003)		UT0W		X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-7**

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>6-RC-2320-881 (FIG NO A-RC-10)</u>								
105460	7	B-J	PT	200-1/69	X	-	-	
	REDUCING TEE TO PIPE	89.11	UTOL	600-31/19	X	-	-	
	(A-SW0002)		UTOW		X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**SS-7**
105470	8	B-J	PT	200-1/69	X	-	-	NO UT45T ON THE VALVE SIDE DUE TO VALVE
	PIPE TO VALVE	89.11	UTOL	600-31/19	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
	(FW0002)		UTOW		X	-	-	REPORT.
			UT45		-	X	-	
			UT45T		X	-	-	**SS-7**
105480	9	B-J	PT	200-1/69	X	-	-	NO UT45T ON THE VALVE SIDE DUE TO VALVE
	VALVE TO PIPE	89.11	UTOL	600-31/19	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
	(FW0003)		UTOW		X	-	-	REPORT.
			UT45		X	-	-	
			UT45T		X	-	-	**SS-7**
			UT60		-	X	-	
105490	10	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UTOL	600-31/19	X	-	-	
	(B-SW0002)		UT45		-	X	-	
			UT45T		X	-	-	**SS-7**
105500	11	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UTOL	600-31/19	X	-	-	
	(B-SW0003)		UT45		-	X	-	
			UT45T		X	-	-	**SS-7**

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NUMER IDENTIFICATION		SLC, XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E O E		REMARKS	
					C	M	R	**CALIBRATION BLOCK**

4-RC-2320-BB1 (FIG NO A-RC-10)

105510	12	B-J	PT	200-1/69	X	-	-	NO UT45T ON THE VALVE SIDE DUE TO VALVE
	PIPE TO VALVE	B9.11	UTOL	600-31/19	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
	(FW0004)		UTOW		X	-	-	REPORT.
			UT45		X	-	-	
			UT45T		X	-	-	**SS-7**

4-RC-2323-BB1 (FIG NO A-RC-11)

105610	1	B-J	PT	200-1/69	X	-	-	NO UT45T ON THE VALVE SIDE DUE TO VALVE
	VALVE TO PIPE	B9.11	UTOL	600-31/19	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
	(FW0001)		UTOW		X	-	-	REPORT.
			UT45		X	-	-	
			UT45T		X	-	-	**SS-7**
			UT60		X	-	-	

105620	2	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	B9.11	UTOL	600-31/19	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-7**

105630	3	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	B9.11	UTOL	600-31/19	X	-	-	
	(FS7949)		UT45		-	X	-	
			UT45T		X	-	-	**SS-7**

105660	4	B-J	PT	200-1/69	X	-	-	
	PIPE TO BRANCH CONNECTION	B9.11	UTOL	600-31/19	X	-	-	
	(FW0002)		UT45		-	X	-	
			UT45T		X	-	-	**SS-7**

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					O	G		T
					C	M	R	**CALIBRATION BLOCK**
-----								
<u>4-RC-2420-BB1 (FIG NO A-RC-10)</u>								
105760 1	B-J	PT		200-1/69	X	-	-	
BRANCH CONNECTION TO CAP (FW0001)	89.11	UT0L		600-31/19	X	-	-	
		UT0W			X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	**SS-7**
<u>4-RC-2422-BB1 (FIG NO A-RC-13)</u>								
105930 1	B-J	PT		200-1/69	X	-	-	
BRANCH CONNECTION TO PIPE (FW0001)	89.11	UT0L		600-31/19	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
105940 2	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW (A-SW0002)	89.11	UT0L		600-31/19	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
105950 3	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE (A-SW0003)	89.11	UT0L		600-31/19	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
105960 4	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW (A-SW0004)	89.11	UT0L		600-31/19	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**

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		SEC. 11			Q	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		
-----		-----	-----	-----	-	-	-	-----	-----	
<u>4-RC-2422-BB1 (FIG NO A-RC-13)</u>										
105970	5	B-J	PT	200-1/69	X	-	-			
	ELBOW TO PIPE	89.11	UTOL	600-31/19	X	-	-			
	(A-SW0005)		UT45		X	-	-			
			UT45T		X	-	-	**SS-7**		
105980	6	B-J	PT	200-1/69	X	-	-			
	PIPE TO ELBOW	89.11	UTOL	600-31/19	X	-	-			
	(A-SW0006)		UT45		-	X	-			
			UT45T		X	-	-	**SS-7**		
105990	7	B-J	PT	200-1/69	X	-	-			
	ELBOW TO PIPE	89.11	UTOL	600-31/19	X	-	-			
	(A-SW0007)		UT45		X	-	-			
			UT45T		X	-	-	**SS-7**		
106000	8	B-J	PT	200-1/69	X	-	-			
	PIPE TO ELBOW	89.11	UTOL	600-31/19	X	-	-			
	(FW0002)		UT45		-	X	-			
			UT45T		X	-	-	**SS-7**		
106010	9	B-J	PT	200-1/69	X	-	-			
	ELBOW TO PIPE	89.11	UTOL	600-31/19	X	-	-			
	(B-SW0003)		UT45		-	X	-			
			UT45T		X	-	-	**SS-7**		



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					E	O	E	
					C	M	R	**CALIBRATION BLOCK**
<u>4-RC-2422-BE1 (FIG NO A-RC-13)</u>								
106020 10	B-I	PT		200-1/69	X	-	-	
PIPE TO	B9.11	UTOL		600-31/19	X	-	-	
(B-SW0001)		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
106030 11	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		600-31/19	X	-	-	
(B-SW0002)		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
106040 12	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		600-31/19	X	-	-	
(FW0003)		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
106050 13	B-J	PT		200-1/69	X	-	-	
PIPE TO PIPE	B9.11	UTOL		600-31/19	X	-	-	
(FW0004)		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**
106050 14	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		600-31/19	X	-	-	
(D-SW0002)		UT45			-	X	-	
		UT45T			X	-	-	**SS-7**

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-----								
<u>4-RC-2422-881 (FIG NO A-RC-13)</u>								
106070 15 ELBOW TO PIPE (FW0005)	B-J 89.11	PT UTOL UT45 UT45T		200-1/69 600-31/19	X - - X - - - X - X - -			**SS-7**
106080 16 PIPE TO ELBOW (E-SW0002)	B-J 89.11	PT UTOL UT45 UT45T		200-1/69 600-31/19	X - - X - - - X - X - -			**SS-7**
106090 17 ELBOW TO PIPE (E-SW0003)	B-J 89.11	PT UTOL UT45 UT45T		200-1/69 600-31/19	X - - X - - - X - X - -			**SS-7**
106100 18 PIPE TO ELBOW (E-SW0004)	B-J 89.11	PT UTOL UT45 UT45T		200-1/69 600-31/19	X - - X - - - X - X - -			**SS-7**
106110 19 ELBOW TO PIPE (FW0006)	B-J 89.11	PT UTOL UT45 UT45T		200-1/69 600-31/19	X - - X - - - X - X - -			**SS-7**



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SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O G T R E H E O E C M R			REMARKS
-----								
<u>3-RC-2003-BB1 (FIG NO A-RC-13)</u>								
106200	1 REDUCER TO PIPE	B-J 89.21	PT	200-1/69	X	-	-	**CALIBRATION BLOCK**
106210	2 PIPE TO REDUCING TEE	B-J 89.21	PT	200-1/69	X	-	-	
<u>3-RC-2015-NSS (FIG NO A-RC-7)</u>								
106250	1 REDUCER TO ELBOW	B-J 89.21	PT	200-1/69	X	-	-	
106260	2 ELBOW TO ELBOW	B-J 89.21	PT	200-1/69	X	-	-	
106270	3 ELBOW TO PIPE	B-J 89.21	PT	200-1/69	X	-	-	
106280	4 PIPE TO VALVE	B-J 89.21	PT	200-1/69	X	-	-	
106290	5 VALVE TO PIPE	B-J 89.21	PT	200-1/69	X	-	-	

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----		-----	-----	-----	-	-	-
<u>3-RC-2015-NSS (FIG NO A-RC-7)</u>							
106300	6 PIPE TO ELBOW	B-J 89.21	PT	200-1/69	X	-	-
106310	7 ELBOW TO PIPE	B-J 89.21	PT	200-1/69	X	-	-
106320	8 PIPE TO VALVE	B-J 89.21	PT	200-1/69	X	-	-
106330	9 REDUCER TO ELBOW	B-J 89.21	PT	200-1/69	X	-	-
106340	10 ELBOW TO ELBOW	B-J 89.21	PT	200-1/69	X	-	-
106350	11 ELBOW TO PIPE	B-J 89.21	PT	200-1/69	X	-	-
106360	12 PIPE TO VALVE	B-J 89.21	PT	200-1/69	X	-	-

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	
			ITEM NO	METHOD	PROCEDURE	C	M
						R	
							**CALIBRATION BLOCK**

3-RC-2015-WSS (FIG NO A-RC-7)

106370 13 VALVE TO PIPE B-J PT 200-1/69 X - -  
 89.21

106380 14 PIPE TO ELBOW B-J PT 200-1/69 X - -  
 89.21

106390 15 ELBOW TO PIPE B-J PT 200-1/69 X - -  
 89.21

106400 16 PIPE TO VALVE B-J PT 200-1/69 X - -  
 89.21

3-RC-2106-BB1 (FIG NO A-RC-15)

106850 1 BRANCH CONNECTION TO CAP B-J PT 200-1/69 X - -  
 89.21

3-RC-2206-BB1 (FIG NO A-RC-15)

107190 1 BRANCH CONNECTION TO CAP B-J PT 200-1/69 X - -  
 89.21

3-RC-2306-BB1 (FIG NO A-RC-15)

107335 1 BRANCH CONNECTION TO CAP B-J PT 200-1/69 X - -  
 89.21

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		SEC. XI			O	G	T				
		CATGY	EXAM			R	E	H			
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS			
						C	M	R	**CALIBRATION BLOCK**		
-----		-----		-----		-		-----		-----	
<u>3-RC-2406-BB1 (FIG NO A-RC-15)</u>											
107860	1	B-J	PT	200-1/69	X	-	-				
	BRANCH CONNECTION TO CAP	89.21									
<u>2-RC-2003-BB1 (FIG NO A-RC-13)</u>											
107960	1	B-J	PT	200-1/69	X	-	-				
	VALVE TO PIPE	89.40									
	(FW0001)										
107970	2	B-J	PT	200-1/69	X	-	-				
	PIPE TO REDUCER	89.40									
	(FW0002)										
<u>2-RC-2108-BB1 (FIG NO A-RC-20)</u>											
108100	1	B-J	PT	200-1/69	X	-	-				
	BRANCH CONNECTION TO CAP	89.40									
<u>2-RC-2121-BB1 (FIG NO A-RC-16)</u>											
108300	1	B-J	PT	200-1/69	X	-	-				
	BRANCH CONNECTION TO CAP	89.40									
	(FW0009)										
<u>2-RC-2121-BB1 (FIG NO A-RC-16)</u>											
108400	1	B-J	PT	200-1/69	X	-	-				
	BRANCH CONNECTION TO PIPE	89.40									
	(FW0001)										

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					-	-	-
<u>2-RC-2121-BB1 (FIG NO A-RC-16)</u>							
108410	2 PIPE TO ELBOW (FW0002)	B-J B9.40	PT	200-1/69	X	-	-
108420	3 ELBOW TO PIPE (FW0003)	B-J B9.40	PT	200-1/69	X	-	-
108423	4 PIPE TO ELBOW (FW0004)	B-J B9.40	PT	200-1/69	X	-	-
108426	5 ELBOW TO PIPE (FW0005)	B-J B9.40	PT	200-1/69	X	-	-
108430	6 PIPE TO VALVE (FW0006)	B-J B9.40	PT	200-1/69	X	-	-
108440	7 VALVE TO PIPE (FW0007)	B-J B9.40	PT	200-1/69	X	-	-
108450	8 PIPE TO REDUCING TEE (FW0010)	B-J B9.40	PT	200-1/69	X	-	-



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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
HUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**
-----		-----		-----		-----	
<u>2-RC-2121-BB1 (FIG NO A-RC-16)</u>							
108460	9	B-J	PT	200-1/69	X	-	-
	REDUCING TEE TO PIPE	89.40					
	(FW0011)						
108470	10	B-J	PT	200-1/69	X	-	-
	PIPE TO VALVE	89.40					
	(FW0009)						
<u>2-RC-2208-BB1 (FIG NO A-RC-20)</u>							
108500	1	B-J	PT	200-1/69	X	-	-
	BRANCH CONNECTION TO PIPE	89.40					
<u>2-RC-2219-BB1 (FIG NO A-RC-17)</u>							
108900	1	B-J	PT	200-1/69	X	-	-
	BRANCH CONNECTION TO CAP	89.40					
	(FW0001)						
<u>2-RC-2220-BB1 (FIG NO A-RC-17)</u>							
109000	1	B-J	PT	200-1/69	X	-	-
	BRANCH CONNECTION TO PIPE	89.40					
	(FW0001)						
109010	2	B-J	PT	200-1/69	X	-	-
	PIPE TO ELBOW	89.40					
	(FW8441)						

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NUMBER IDENTIFICATION	SEC. XI	CATGY	EXAM	PROCEDURE	O	G	T
	ITEM NO	METHOD			R	E	H
					E	O	E
					C	M	R
<u>2-RC-2220-BB1 (FIG NO A-RC-17)</u>							
109020	3	B-J	PT	200-1/69	X	-	-
	ELBOW TO PIPE	89.40					
	(FWB442)						
109030	4	B-J	PT	200-1/69	X	-	-
	PIPE TO ELBOW	89.40					
	(FWB443)						
109040	5	B-J	PT	200-1/69	X	-	-
	ELBOW TO PIPE	89.40					
	(FW0005)						
109050	6	B-J	PT	200-1/69	X	-	-
	PIPE TO VALVE	89.40					
	(FW0006)						
109060	7	B-J	PT	200-1/69	X	-	-
	VALVE TO PIPE	89.40					
	(FW0007)						
109070	8	B-J	PT	200-1/69	X	-	-
	PIPE TO VALVE	89.40					
	(FW0008)						
<u>2-RC-2308-BB1 (FIG NO A-RC-20)</u>							
109300	1	B-J	PT	200-1/69	X	-	-
	BRANCH CONNECTION TO PIPE	89.40					

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**

2-RC-2319-881 (FIG NO A-RC-18)

109500	1	B-J	PT	200-1/69	X	-	-	
	BRANCH CONNECTION TO CAP (FW0001)	89.40						

2-RC-2321-881 (FIG NO A-RC-10)

109600	1	B-J	PT	200-1/69	X	-	-	
	REDUCING TEE TO BENT PIPE (FW0001)	89.40						

109630	2	B-J	PT	200-1/69	X	-	-	
	BENT PIPE TO VALVE (FW0004)	89.40						

109640	3	B-J	PT	200-1/69	X	-	-	
	VALVE TO PIPE (FW0005)	89.40						

109650	4	B-J	PT	200-1/69	X	-	-	
	PIPE TO VALVE (FW0006)	89.40						

2-RC-2408-881 (FIG NO A-RC-20)

109900	1	B-J	PT	200-1/69	X	-	-	
	BRANCH CONNECTION TO PIPE	89.40						

2-RC-2417-881 (FIG NO A-RC-19)

110100	1	B-J	PT	200-1/69	X	-	-	
	BRANCH CONNECTION TO CAP (FW0001)	89.40						

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REACTOR COOLANT SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O O G T R E H E O E			REMARKS
					U	M	R	
-----								
<u>2-RC-2418-BB1 (FIG NO A-PC-19)</u>								
110200	1 BRANCH CONNECTION TO PIPE (FW0001)	B-J 89.40	PT	200-1/69	X	-	-	**CALIBRATION BLOCK**
110210	2 PIPE TO ELLOW (FW0002)	B-J 89.21	PT	200-1/69	X	-	-	
110220	3 ELBOW TO PIPE (FW0003)	B-J 89.21	PT	200-1/69	X	-	-	
110230	4 PIPE TO TEE (FW0004)	B-J 89.21	PT	200-1/69	X	-	-	
110240	5 TEE TO PIPE (FW0005)	B-J 89.21	PT	200-1/69	X	-	-	
110250	6 PIPE TO VALVE (FW0006)	B-J 89.40	PT	200-1/69	X	-	-	
110260	7 VALVE TO PIPE (FW0007)	B-J 89.40	PT	200-1/69	X	-	-	

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RFACOR COOLANT SYSTEM

SUMMARY EXAMINATION AREA		ASME			M	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

2-RC-2418-BB1 (FIG NO A-RC-19)

110270	8	B-J	PT	200-1/69	X	-	-
	PIPE TO VALVE	89.40					
	(FW0008)						

2-RC-2419-B21 (FIG NO A-RC-19)

110300	1	B-J	PT	200-1/69	X	-	-
	TEE TO PIPE	89.21					
	(FW0001)						

110310	2	B-J	PT	200-1/69	X	-	-
	PIPE TO ELBOW	89.21					
	(FW0002)						

110320	3	B-J	PT	200-1/69	X	-	-
	ELBOW TO PIPE	89.21					
	(FW0003)						

110330	4	B-J	PT	200-1/69	X	-	-
	PIPE TO VALVE	89.21					
	(FW0004)						

110340	5	B-J	PT	200-1/69	X	-	-
	VALVE TO PIPE	89.21					
	(FW0005)						

110350	6	B-J	PT	200-1/69	X	-	-
	PIPE TO VALVE	89.21					
	(FW0006)						

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SUMMARY EXAMINATION AREA		ASME			N	O				
		SEC. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		
<u>4-CV-2001-881 (FIG NO A-CV-1)</u>										
150000	1	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 AND NO UT45T ON THE		
	VALVE TO PIPE	B9.11	UTOL	600-31/19	X	-	-	VALVE SIDE DUE TO VALVE CONFIGURATION.		
	(FW0001)		UTOW		X	-	-	SEE APPENDIX L OF THIS REPORT.		
			UT45		-	X	-			
			UT45T		X	-	-	**SS-6**		
			UT60		-	X	-			
<u>4-CV-2118-881 (FIG NO A-CV-2)</u>										
150020	2	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 AND NO UT45T ON THE		
	PIPE TO VALVE	B9.11	UTOL	600-31/19	X	-	-	VALVE SIDE DUE TO VALVE CONFIGURATION.		
	(FW0002)		UTOW		X	-	-	SEE APPENDIX L OF THIS REPORT.		
			UT45		-	X	-			
			UT45T		X	-	-	**SS-6**		
			UT60		-	X	-			
<u>4-CV-2120-881 (FIG NO A-CV-2)</u>										
150220	1	B-J	PT	200-1/69	X	-	-			
	VALVE TO PIPE	B9.11	UTOL	600-31/19	X	-	-			
	(FW0001)		UTOW		X	-	-			
			UT45		X	-	-			
			UT45T		X	-	-	**SS-7**		
150240	2	B-J	PT	200-1/69	X	-	-	TWO UTOW CODE ALLOWABLE INDICATIONS,		
	PIPE TO VALVE	B9.11	UTOL	600-31/19	X	-	-	SEE CNF 104.		
	(FW0002)		UTOW		-	-	X			
			UT45		X	-	-			
			UT45T		X	-	-	**SS-7**		
<u>4-CV-2120-881 (FIG NO A-CV-2)</u>										
150440	1	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 AND NO UT45T ON THE		
	VALVE TO PIPE	B9.11	UTOL	600-31/19	X	-	-	VALVE SIDE DUE TO VALVE CONFIGURATION.		
	(FW0003)		UTOW		X	-	-	SEE APPENDIX L OF THIS REPORT.		
			UT45		-	X	-			
			UT45T		X	-	-	**SS-7**		
			UT60		-	X	-			

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				C	M	R	
-----							
**CALIBRATION BLOCK**							
-----							

4-CV-2120-BB1 (FIG NO A-CV-2)

150460	2	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 AND NO UT45T ON THE VALVE SIDE DUE TO VALVE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.
	PIPE TO VALVE (FW0004)	B9.11	UTUL	600-31/19	X	-	-	
			UTOW		X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
			UT60		-	X	-	**SS-7**

2-CV-2121-BB1 (FIG NO A-CV-3)

150960	1	B-J	PT	200-1/69	X	-	-	
	VALVE TO BENT PIPE (FW0001)	B9.21						
150980	2	B-J	PT	200-1/69	X	-	-	
	BENT PIPE TO BENT PIPE (FW8212)	B9.21						
150990	2A	B-J	PT	200-1/69	X	-	-	
	BENT PIPE TO BENT PIPE (FW8161)	B9.21						
151100	3	B-J	PT	200-1/69	X	-	-	
	BENT PIPE TO VALVE (FW0008)	B9.21						

2-CV-2122-BB1 (FIG NO A-CV-4)

151600	1	B-J	PT	200-1/69	X	-	-	
	VALVE TO PIPE (FW0001)	B9.21						

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SUMMARY EXAMINATION AREA		ASME			H	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**
					-	-	-	
<u>2-CV-2122-BB1 (FIG NO A-CV-4)</u>								
151620	2 PIPE TO VALVE (FW0002)	B-J 89.21	PT	200-1/69	X	-	-	
151660	3 VALVE TO PIPE (FW0003)	B-J 89.21	PT	200-1/69	X	-	-	
151660	4 PIPE TO REDUCING TEE (FW0018)	B-J 89.21	PT	200-1/69	X	-	-	
151680	5 REDUCING TEE TO BENT PIPE (FW0019)	B-J 89.21	PT	200-1/69	X	-	-	
151690	6 BENT PIPE TO REDUCING TEE (FW0005)	B-J 89.21	PT	200-1/69	X	-	-	
151700	7 REDUCING TEE TO PIPE (FW0006)	B-J 89.21	PT	200-1/69	X	-	-	
151740	8 PIPE TO REDUCER (FW0022)	B-J 89.21	PT	200-1/69	X	-	-	



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		SEC. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		
					-	-	-			
<u>2-CV-2124-BB1 (FIG NO A-CV-5)</u>										
152140	1 VALVE TO PIPE (FW0022)	B-J 89.21	PT	200-1/69	X	-	-			
152300	4 PIPE TO VALVE (FW0025)	B-J 89.21	PT	200-1/69	X	-	-			
152320	5 VALVE TO PIPE (FW0026)	B-J 89.21	PT	200-1/69	X	-	-			
152340	6 PIPE TO REDUCING TEE (FW0027)	B-J 89.21	PT	200-1/69	X	-	-			
152360	7 REDUCING TEE TO BENT PIPE (FW0028)	B-J 89.21	PT	200-1/69	X	-	-			
152380	8 BENT PIPE TO REDUCING TEE (FW0029)	B-J 89.21	PT	200-1/69	X	-	-			
152400	9 REDUCING TEE TO REDUCER (FW0030)	B-J 89.21	PT	200-1/69	X	-	-			

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				C	M	R	
-----							
<u>2-CV-2126-B81 (FIG NO A-CV-5)</u>							
152940 1 VALVE TO PIPE (FW0020)	B-J 89.21	PT	200-1/69	X	-	-	
152960 2 PIPE TO VALVE (FW0021)	B-J 89.21	PT	200-1/69	X	-	-	
152980 3 VALVE TO PIPE (FW0022)	B-J 89.21	PT	200-1/69	X	-	-	
153000 4 PIPE TO REDUCING TEE (FW0023)	B-J 89.21	PT	200-1/69	X	-	-	
153020 5 REDUCING TEE TO BENT PIPE (FW0024)	B-J 89.21	PT	200-1/69	X	-	-	
153040 6 BENT PIPE TO REDUCING TEE (FW0025)	B-J 89.21	PT	200-1/69	X	-	-	
153060 7 REDUCING TEE TO REDUCER (FW0026)	B-J 89.21	PT	200-1/69	X	-	-	



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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O			REMARKS
				E	O	E	
	ITEM NO			C	M	R	**CALIBRATION BLOCK**
<u>2-CV-2141-BB1 (FIG NO A-CV-7)</u>							
154320 4 BENT PIPE TO VALVE (FW0005)	B-J 89.21	PT	200-1/69	X	-	-	
<u>2(1.5)-CV-2122-BB1 (FIG NO A-CV-4)</u>							
154320 1 REDUCER TO BENT PIPE (FW0023)	B-J 89.21	PT	200-1/69	X	-	-	
154906 4 BENT PIPE TO FLANGE (FW0013)	B-J 89.21	PT	200-1/69	X	-	-	
154905 4FB FLANGE BOLTING	B-G-2 87.50	VT	900-7/11	X	-	-	
<u>2(1.5)-CV-2124-BB1 (FIG NO A-CV-5)</u>							
155380 1 REDUCER TO BENT PIPE (FW0033)	B-J 89.21	PT	200-1/69	X	-	-	
155400 2 BENT PIPE TO FLANGE (FW0034)	B-J 89.21	PT	200-1/69	X	-	-	
155405 2FB FLANGE BOLTING	B-G-2 87.50	VT	900-7/11	X	-	-	

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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**

2(1,5)-CV-2126-6B1 (FIG NO A-CV-5)

155900	1	B-J	PT	200-1/69	X	-	-	
	REDUCER TO BENT PIPE (FW0029)	B9.21						
155920	2	B-J	PT	200-1/69	X	-	-	
	BENT PIPE TO FLANGE (FW0030)	B9.21						
155925	2FB	B-G-2	VT	900-7/11	X	-	-	
	FLANGE BOLTING	B7.50						

2(1,5)-CV-2128-8B1 (FIG NO A-CV-6)

156420	1	B-J	PT	200-1/69	X	-	-	
	REDUCER TO BENT PIPE (FW0012)	B9.21						
156440	2	B-J	PT	200-1/69	X	-	-	
	BENT PIPE TO FLANGE (FW0013)	B9.21						
156445	2FB	B-G-2	VT	900-7/11	X	-	-	
	FLANGE BOLTING	B7.50						



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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	
					C	M	R	
					REMARKS			
					**CALIBRATION BLOCK**			
-----		-----		-----	-----			
<u>12-RH-2101-BB1 (FIG NO A-RH-1)</u>								
200080	5	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
							**SS-21**	
200100	6	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
							**SS-21**	
200120	7	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-	
	(FW0002)		UT45		-	X	-	
			UT45T		X	-	-	
							**SS-21**	
200140	8	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-	
	(FW0003)		UT45		-	X	-	
			UT45T		X	-	-	
							**SS-21**	
200160	9	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
							**SS-21**	

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SUMMARY EXAMINATION AREA		ASME	EXAM	PROCEDURE	N O	REMARKS
NUMBER	IDENTIFICATION	SEC. XI	METHOD		O G T	
		CATGY			R E H	
		ITEM NO			E O F	
					C M R	**CALIBRATION BLOCK**
<u>12-RH-2101-8B1 (FIG NO A-RH-1)</u>						
200180	10	B-J	PT	200-1/69	X - -	
	PIPE TO PIPE	B9.11	UTOL	800-114/2	X - -	
	(FW0004)		UT45		- X -	
			UT45T		X - -	**SS-21**
200200	11	B-J	PT	200-1/69	X - -	
	PIPE TO PIPE	B9.11	UTOL	800-114/2	X - -	
	(FW0005)		UT45		- X -	
			UT45T		X - -	
			UT60	600-31/19	- X -	**SS-21**
200220	12	B-J	PT	200-1/69	X - -	
	PIPE TO ELBOW	B9.11	UTOL	800-114/2	X - -	
			UT45		- X -	
			UT45T		X - -	**SS-21**
200240	13	B-J	PT	200-1/69	X - -	
	ELBOW TO PIPE	B9.11	UTOL	800-114/2	X - -	
			UT45		X - -	
			UT45T		X - -	**SS-21**
200260	14	B-J	PT	200-1/69	X - -	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
	PIPE TO VALVE	B9.11	UTOL	800-114/2	X - -	TO VALVE CONFIGURATION. SEE APPENDIX L
	(FW0006)		UT45		- X -	OF THIS REPORT.
			UT45T		X - -	
			UTOW	600-31/19	X - -	**SS-21**
			UT60		- X -	





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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----							
<u>12-RH-2201-BB1 (FIG NO A-RH-2)</u>							
200600	5A	B-J	PT	200-1/69	X	-	-
	PIPE TO PIPE	89.11	UT0L	800-114/2	X	-	-
			UT45		-	X	-
			UT45T		X	-	-
					**SS-21**		
200620	6	B-J	PT	200-1/69	X	-	-
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-
	(FW0003)		UT45		-	X	-
			UT45T		X	-	-
					**SS-21**		
200640	7	B-J	PT	200-1/69	X	-	-
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-
	(C-SW0003)		UT45		-	X	-
			UT45T		X	-	-
					**SS-21**		
200660	8	B-J	PT	200-1/69	X	-	-
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-
	(C-SW0002)		UT45		-	X	-
			UT45T		X	-	-
					**SS-21**		
200680	9	B-J	PT	200-1/69	X	-	-
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-
	(FW0004)		UT45		-	X	-
			UT45T		X	-	-
					**SS-21**		

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O			REMARKS
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**
<u>12-RH-2201-BB1 (FIG NO A-RH-2)</u>								
200700 10 PIPE TO ELBOW (FW0005)	B-J	PT		200-1/69	X	-	-	
	89.11	UT0L		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
200720 11 ELBOW TO PIPE (E-SW0002)	B-J	PT		200-1/69	X	-	-	
	89.11	UT0L		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
200740 12 PIPE TO PIPE (FW0006)	B-J	PT		200-1/69	X	-	-	
	89.11	UT0L		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
200760 13 PIPE TO PIPE (FW0007)	B-J	PT		200-1/69	X	-	-	
	89.11	UT0L		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
200780 14 PIPE TO ELBOW (G-SW0003)	B-J	PT		200-1/69	X	-	-	
	89.11	UT0L		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M O D O G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**
<u>12-RH-2201-BB1 (FIG NO A-RH-2)</u>								
200800 15	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	89.11	UTOL		800-114/2	X	-	-	
(G-SW0002)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
200820 16	B-J	PT		200-1/69	X	-	-	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
PIPE TO VALVE	89.11	UTOL		800-114/2	X	-	-	TO VALVE CONFIGURATION. SEE APPENDIX L
(FW0008)		UT45			-	X	-	OF THIS REPORT.
		UT45T			X	-	-	
		UTOW		600-31/19	X	-	-	**SS-21**
		UT60			-	X	-	
<u>12-RH-2301-BB1 (FIG NO A-RH-3)</u>								
201020 1	B-J	PT		200-1/69	X	-	-	
VALVE TO PIPE	89.11	UTOL		800-114/2	X	-	-	
(FW0001)		UT45			X	-	-	
		UT45T			X	-	-	
		UTOW		600-31/19	X	-	-	**SS-21**
		UT60			-	X	-	
201040 2	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	89.11	UTOL		800-114/2	X	-	-	
(A-SW0005)		UT45			X	-	-	
		UT45T			X	-	-	**SS-21**
201060 3	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	89.11	UTOL		800-114/2	X	-	-	
(A-SW0004)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**

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					C	M	R	
-----								
<u>12-RK-2301-BB1 (FIG NO A-RH-3)</u>								
201080 4	B-J	PT		200-1/69	X	-	-	
PIPE TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(A-SW0003)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
201100 5	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		800-114/2	X	-	-	
(A-SW0002)		UT45			X	-	-	
		UT45T			X	-	-	**SS-21**
201120 6	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(FW0002)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
201140 7	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		800-114/2	X	-	-	
(FW0003)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**
201160 8	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(C-SW0004)		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**

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					E	O	R	
					C	M	R	**CALIBRATION BLOCK**

12-RH-2301-BB1 (FIG NO A-RH-3)

201180 9	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW (C-SW0003)	B9.11	UTOL		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-21**

201300 10	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE (C-SW0003)	B9.11	UTOL		800-114/2	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	**SS-21**

201225 11	B-J	PT		200-1/69	X	-	-	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
PIPE TO VALVE (FW0004)	B9.11	UTOL		800-114/2	X	-	-	TO VALVE CONFIGURATION. SEE APPENDIX L
		UT45			-	X	-	OF THIS REPORT.
		UT45T			X	-	-	
		UTOW		600-31/19	X	-	-	**SS-21**
		UT60			-	X	-	

10-RH-2108-BB1 (FIG NO A-RH-4)

201380 1	B-J	PT		200-1/69	X	-	-	
REDUCER TO PIPE (FW0011)	B9.11	UTOL		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-58**

201400 2	B-J	PT		200-1/69	X	-	-	
PIPE TO REDUCING TEE (FW0012)	B9.11	UTOL		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**SS-58**

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>10-RH-2108-BB1 (FIG NO A-RH-4)</u>								
201420	3	B-J	PT	200-1/69	X	-	-	
	REDUCING TEE TO PIPE	89.11	UT0L	800-114/2	X	-	-	
	(FS7220)		UT45		X	-	-	
			UT45T		X	-	-	
			UT0W	600-31/19	X	-	-	**SS-58**
			UT45		-	X	-	
201430	3A	B-J	PT	200-1/69	X	-	-	
	PIPE TO PIPE	89.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-58**
201440	4	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-58**
201460	5	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	89.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-58**
201480	6	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UT0L	800-114/2	X	-	-	
	(FW0004)		UT45		-	X	-	
			UT45T		X	-	-	**SS-58**

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					E	O	R	
					C	M	R	
-----								
<u>10-RH-2103-BB1 (FIG NO A-RH-4)</u>								
201500 7	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(B-SW0004)		UT45			-	X	-	
		UT45T			X	-	-	**SS-58**
201510 8	B-J	PT		200-1/69	X	-	-	
PIPE TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(B-SW0007)		UT45			-	X	-	
		UT45T			X	-	-	**SS-58**
201520 9	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		800-114/2	X	-	-	
(B-SW0003)		UT45			-	X	-	
		UT45T			X	-	-	**SS-58**
201540 10	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(B-SW0002)		UT45			-	X	-	
		UT45T			X	-	-	**SS-58**
201560 11	B-J	PT		200-1/69	X	-	-	LIMITED UT45T ON THE REDUCING TEE SIDE
PIPE TO REDUCING TEE	B9.11	UTOL		800-114/2	X	-	-	DUE TO REDUCING TEE CONFIGURATION. SEE
(FW0005)		UT45			-	X	-	APPENDIX L OF THIS REPORT.
		UT45T			X	-	-	
		UTOW		600-31/19	X	-	-	**SS-58**
		UT60			X	-	-	



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		SEC. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		
-----		-----		-----	-	-	-	-----	-----	
<u>10-RH-2208-881 (FIG NO A-RH-2)</u>										
201760	1	B-J	PT	200-1/69	X	-	-			
	REDUCER TO PIPE	89.11	UTOL	800-114/2	X	-	-			
			UT45		X	-	-			
			UT45T		X	-	-			
			UTOW	600-31/19	X	-	-	**SS-58**		
201780	2	B-J	PT	200-1/69	X	-	-	NO UT45T ON THE REDUCING TEE SIDE DUE TO		
	PIPE TO REDUCING TEE	89.11	UTOL	800-114/2	X	-	-	REDUCING TEE CONFIGURATION. SEE		
			UT45		-	X	-	APPENDIX L OF THIS REPORT.		
			UT45T		X	-	-			
			UTOW	600-31/19	X	-	-	**SS-58**		
			UT45		-	X	-			
201800	3	B-J	PT	200-1/69	X	-	-	NO UT45T ON THE REDUCING TEE SIDE DUE TO		
	REDUCING TEE TO PIPE	89.11	UTOL	800-114/2	X	-	-	REDUCING TEE CONFIGURATION. SEE		
			UT45		X	-	-	APPENDIX L OF THIS REPORT.		
			UT45T		X	-	-			
			UTOW	600-31/19	X	-	-	**SS-58**		
			UT45		-	X	-			
201820	4	B-J	PT	200-1/69	X	-	-			
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X	-	-			
			UT45		-	X	-			
			UT45T		X	-	-			
			UTOW	600-31/19	X	-	-	**SS-58**		
			UT45		-	X	-			
201840	5	B-J	PT	200-1/69	X	-	-	NO UT45T ON THE ELBOW SIDE DUE TO ELBOW		
	ELBOW TO PIPE	89.11	UTOL	800-114/2	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS		
	(170004)		UT45		-	X	-	REPORT.		
			UT45T		X	-	-			
			UT60	600-31/19	-	X	-	**SS-58**		

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					C M R			
-----								
<u>10-RH-2208-BB1 (FIG NO A-RH-2)</u>								
201860 6	B-J	PT		200-1/69	X	-	-	
PIPE TO ELBOW	B9.11	UTOL		800-114/2	X	-	-	
(B-SW0005)		UT45			-	X	-	
		UT45T			X	-	-	**SS-58**
201880 7	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(B-SW0004)		UT45			-	X	-	
		UT45T			X	-	-	**SS-58**
201920 9	B-J	PT		200-1/69	X	-	-	
PIPE TO E. ROW	B9.11	UTOL		800-114/2	X	-	-	
(B-SW0003)		UT45			-	X	-	
		UT45T			X	-	-	**SS-58**
201940 10	B-J	PT		200-1/69	X	-	-	
ELBOW TO PIPE	B9.11	UTOL		800-114/2	X	-	-	
(B-SW0002)		UT45			-	X	-	
		UT45T			X	-	-	**SS-58**
201960 11	B-J	PT		200-1/69	X	-	-	
PIPE TO REDUCING TEE	B9.11	UTOL		800-114/2	X	-	-	
(FW0005)		UT45			-	X	-	
		UT45T			-	-	-	
		UTOW	600-31/19		X	-	-	**SS-58**
		UT45			X	-	-	

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**
<u>10-04-2308-881 (FIG NO A-RH-5)</u>								
202140 1 REDUCER TO PIPE	B-J 89.11	PT UT0L UT45 UT45T UT0W		200-1/69 800-114/2  600-31/19	X - - X - - - X - X - - - - X		NINE UTOW CODE ALLOWABLE INDICATIONS. SEE CNF 045.  **SS-58**	
202160 2 PIPE TO REDUCING TEE	B-J 89.11	PT UT0L UT45 UT45T UT0W UT45		200-1/69 800-114/2  600-31/19	X - - X - - X - - X - - X - - - X -		    **SS-58**	
202180 3 REDUCING TEE TO PIPE	B-J 89.11	PT UT0L UT45 UT45T UT0W UT45		200-1/69 800-114/2  600-31/19	X - - X - - - X - X - - X - - - X -		NO UT45T ON THE REDUCING TEE SIDE DUE TO REDUCING TEE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-58**	
202200 4 PIPE TO ELBOW	B-J 89.11	PT UT0L UT45 UT45T UT0W UT45		200-1/69 800-114/2  600-31/19	X - - X - - - X - X - - X - - X - -		    **SS-58**	
202220 5 ELBOW TO PIPE (FW0002)	B-J 89.11	PT UT0L UT45 UT45T UT0W UT60		200-1/69 800-114/2  600-31/19	X - - X - - - X - X - - X - - - X -		NO UT45T ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-58**	

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-----						
<u>10-RH-2308-BB1 (FIG NO A-RH-5)</u>						
202230	6	B-J	PT	200-1/69	X - -	
	PIPE TO PIPE	B9.11	UTOL	800-114/2	X - -	
	(B-SW0004)		UT45		- X -	
			UT45T		X - -	**SS-58**
202240	7	B-J	PT	200-1/69	X - -	
	PIPE TO ELBOW	B9.11	UTOL	800-114/2	X - -	
	(B-SW0003)		UT45		- X -	
			UT45T		X - -	**SS-58**
202260	8	B-J	PT	200-1/69	X - -	
	ELBOW TO PIPE	B9.11	UTOL	800-114/2	X - -	
	(B-SW0002)		UT45		- X -	
			UT45T		X - -	**SS-58**
202280	9	B-J	PT	200-1/69	X - -	
	PIPE TO REDUCING TEE	B9.11	UTOL	800-114/2	X - -	
	(FW0003)		UT45		- X -	
			UT45T		X - -	
			UTOW	600-31/19	X - -	**SS-58**
<u>8-RH-2108-BB1 (FIG NO A-RH-4)</u>						
202480	1	B-J	PT	200-1/69	X - -	LIMITED UT45 ON THE VALVE SIDE DUE TO
	VALVE TO PIPE	B9.11	UTOL	800-114/2	X - -	VALVE CONFIGURATION. LIMITED UT45 ON
	(FW0001)		UT45		- X -	THE PIPE SIDE DUE TO HANGER. SEE
			UT45T		X - -	APPENDIX L OF THIS REPORT.
			UTOW	600-31/19	X - -	**SS-10**

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	ITEM NO	UTOL	UT45	
			METHOD	PROCEDURE	UT45T	UT60	
					UTOW		
<u>B-RH-210B-KC1 (FIG NO A-RH-1)</u>							
202500	2	B-J	PT	200-1/69	X	-	
	PIPE TO REDUCER	89.11	UTOL	800-114/2	X	-	
			UT45		-	X	
			UT45T		X	-	
			UTOW	600-31/19	X	-	**SS-10**
<u>B-RH-2112-BB1 (FIG NO A-RH-4)</u>							
202700	1	B-J	PT	200-1/69	X	-	
	VALVE TO PIPE	89.11	UTOL	800-114/2	X	-	
	(FW0001)		UT45		-	X	
			UT45T		X	-	
			UTOW	600-31/19	X	-	* SS-11**
			UT60		-	X	
202720	2	B-J	PT	200-1/69	X	-	
	PIPE TO TEE	89.11	UTOL	800-114/2	X	-	
	(FW0002)		UT45		-	X	
			UT45T		X	-	
			UTOW	600-31/19	X	-	**SS-11**
			UT60		-	X	
<u>B-RH-220B-BB1 (FIG NO A-RH-2)</u>							
202920	1	B-J	PT	200-1/69	X	-	
	VALVE TO PIPE	89.11	UTOL	800-114/2	X	-	
	(FW0001)		UT45		-	X	
			UT45T		X	-	
			UTOW	600-31/19	X	-	**SS-10**
202940	2	B-J	PT	200-1/69	X	-	
	PIPE TO REDUCER	89.11	UTOL	800-114/2	X	-	
	(FW0002)		UT45		-	X	
			UT45T		X	-	
			UTOW	600-31/19	X	-	**SS-10**

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NUMBER	IDENTIFICATION	SEC. XI	METHOD		O	G	
		CATGY			R	E	
		ITEM NO			E	O	
					C	M	**CALIBRATION BLOCK**
<u>B-RH-2212-881 (FIG NO A-RH-2)</u>							
203140	1	B-J	PT	200-1/69	X	-	
	VALVE TO PIPE	89.11	UT0L	800-114/2	X	-	
	(FW0001)		UT45		-	X	
			UT45T		X	-	
			UT0W	600-31/19	X	-	**SS-11**
203160	2	B-J	PT	200-1/69	X	-	NO UT45T ON THE TEE SIDE DUE TO TEE
	PIPE TO TEE	89.11	UT0L	800-114/2	X	-	CONFIGURATION, SEE APPENDIX L OF THIS
	(FW0002)		UT45		-	X	REPORT.
			UT45T		X	-	
			UT0W	600-31/19	X	-	**SS-11**
			UT60		-	X	
<u>B-RH-2308-881 (FIG NO A-RH-5)</u>							
203360	1	B-J	PT	200-1/69	X	-	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
	VALVE TO PIPE	89.11	UT0L	800-114/2	X	-	TO VALVE CONFIGURATION, SEE APPENDIX L
	(FW0001)		UT45		-	X	OF THIS REPORT.
			UT43T		X	-	
			UT0W	600-31/19	X	-	**SS-11**
			UT60		-	X	
203380	2	B-J	PT	200-1/69	X	-	
	PIPE TO REDUCER	89.11	UT0L	800-114/2	X	-	
			UT45		-	X	
			UT45T		X	-	**SS-11**
<u>B-RH-2315-881 (FIG NO A-RH-5)</u>							
203580	1	B-J	PT	200-1/69	X	-	
	VALVE TO PIPE	89.11	UT0L	800-114/2	X	-	
	(FW0001)		UT45		-	X	
			UT45T		X	-	
			UT0W	600-31/19	X	-	**SS-11**

SAFETY INJECTION SYSTEM

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD PROCEDURE	M O R E C	O G T R E H O E M R	REMARKS
<u>12-SI-2125-881 (FIG NO A-SI-1)</u>				
230000 1	B-J PT 200-1/69	X	-	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
VALVE TO PIPE	B9.11 UTOL 800-114/2	X	-	TO VALVE CONFIGURATION. SEE APPENDIX L
(FW0001)	UT45	-	X	OF THIS REPORT.
	UT45T	X	-	
	UTOW 600-31/19	X	-	**SS-21**
	UT6T	-	X	
230020 2	B-J PT 200-1/69	X	-	
PIPE TO REDUCING TEE	B9.11 UTOL 800-114/2	X	-	
	UT45	-	X	
	UT45T	X	-	**SS-21**
230040 3	B-J PT 200-1/69	X	-	
REDUCING TEE TO PIPE	B9.11 UTOL 800-114/2	X	-	
	UT45	-	X	
	UT45T	X	-	**SS-21**
230060 4	B-J PT 200-1/69	X	-	TWO UTOW CODE ALLOWABLE INDICATIONS.
PIPE TO VALVE	B9.11 UTOL 800-114/2	X	-	SEE CNF 017. LIMITED UT45/UT60 ON THE
(FW0001A)	UT45	-	X	VALVE SIDE DUE TO VALVE CONFIGURATION.
	UT45T	X	-	SEE APPENDIX L OF THIS REPORT.
	UTOW 600-31/19	-	X	**SS-21**
	UT60	-	X	
<u>12-SI-2218-881 (FIG NO A-SI-2)</u>				
230260 1	B-J PT 200-1/69	X	-	LIMITED UT45/UT60 AND NO UT45T ON THE
VALVE TO PIPE	B9.11 UTOL 800-114/2	X	-	VALVE SIDE DUE TO VALVE CONFIGURATION.
(FW0001)	UT45	-	X	SEE APPENDIX L OF THIS REPORT.
	UT45T	X	-	
	UTOW 600-31/19	X	-	**SS-21**
	UT60	-	X	

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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**

12-SI-2218-BB1 (FIG NO A-SI-2)

230280	2	B-J	PT	200-1/69	X	-	-	
	PIPE TO REDUCING TEE	89.11	UTOL	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-21**

230300	3	B-J	PT	200-1/69	X	-	-	
	REDUCING TEE TO PIPE	89.11	UTOL	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-21**

230320	4	B-J	PT	200-1/69	X	-	-	TWO UTOW CODE ALLOWABLE INDICATIONS.
	PIPE TO VALVE	89.11	UTOL	800-114/2	X	-	-	SEE CNF 049. LIMITED UT45/UT60 ON THE
	(FW0001A)		UT45		-	X	-	VALVE SIDE DUE TO VALVE CONFIGURATION.
			UT45T		X	-	-	SEE APPENDIX L OF THIS REPORT.
			UTOW	600-31/19	-	-	X	**SS-21**
			UT60		-	X	-	

12-SI-2315-BB1 (FIG NO A-SI-2)

230520	1	B-J	PT	200-1/69	X	-	-	
	VALVE TO PIPE	89.11	UTOL	800-114/2	X	-	-	
	(FW0013)		UT45		-	X	-	
			UT45T		X	-	-	
			UTOW	600-31/19	X	-	-	**SS-20**
			UT60		-	X	-	

230540	2	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	89.11	UTOL	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-20**



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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N	O	REMARKS
				O	G	
				R	I	H
				E	O	E
				C	M	R
-----						
12-SI-2315-PB1 (FIG NO A-SI-2)						
230560 3 ELBOW TO PIPE	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X - X	- - X -	**SS-21**
230580 4 PIPE TO REDUCING TEE	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X - X	- - X -	**SS-21**
230600 5 REDUCING TEE TO PIPE	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X - X	- - X -	**SS-21**
230620 6 PIPE TO PIPE (PW0002)	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X - X	- - X -	**SS-21**
230660 7 PIPE TO ELBOW (B-SW0002)	B-J 89.11	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X - X	- - X -	**SS-21**



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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD PROCEDURE	M O R E C	O G T E M R	D E R E M A R K S	REMARKS
<u>B-SI-210(881) (FIG NO A-SI-3)</u>					
230940 4	B-J PT 200-1/69	X	-	-	
PIPE TO PIPE	89.11 UTOL 800-114/2	X	-	-	
(B-SW0007)	UT45	-	X	-	
	UT45T	X	-	-	**SC-11**
230960 5	B-J PT 200-1/69	X	-	-	
PIPE TO VALVE	89.11 UTOL 800-114/2	X	-	-	
(FW0003)	UT45	-	X	-	
	UT45T	X	-	-	
	UTOW 600-31/19	X	-	-	**SS-11**
	UT60	-	X	-	
<u>B-SI-220(881) (FIG NO A-SI-4)</u>					
231160 1	B-J PT 200-1/69	X	-	-	
REDUCER TO PIPE	89.11 UTOL 800-114/2	X	-	-	
(B-SW0002)	UT45	-	X	-	
	UT45T	X	-	-	**SS-11**
231180 2	B-J PT 200-1/69	X	-	-	
PIPE TO TEE	89.11 UTOL 800-114/2	X	-	-	
(B-SW0003)	UT45	-	X	-	
	UT45T	X	-	-	
	UTOW 600-31/19	X	-	-	**SS-11**
	UT45	-	X	-	
231200 3	B-J PT 200-1/69	X	-	-	
TEE TO PIPE	89.11 UTOL 800-114/2	X	-	-	
(B-SW0004)	UT45	-	X	-	
	UT45T	X	-	-	
	UTOW 600-31/19	X	-	-	**SS-11**
	UT45	-	X	-	





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SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M	O	REMARKS
						E	G	
						R	E	
						H		
						E	O	
						C	M	**CALIBRATION BLOCK**
-----						-	-	-----
<u>8-SI-2327-BB1 (FIG NO A-SI-5)</u>								
231580	10	B-J	PT	200-1/69		X	-	
	ELBOW TO PIPE	89.11	UTOL	800-114/2		X	-	
	(FW0022)		UT45			-	X	
			UT45T			X	-	**SS-10**
231590	10A	B-J	PT	200-1/69		X	-	
	PIPE TO PIPE	89.11	UTOL	800-114/2		X	-	
	(FW0203)		UT45			-	X	
			UT45T			X	-	**SS-10**
231600	11	B-J	PT	200-1/69		X	-	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
	PIPE TO VALVE	89.11	UTOL	800-114/2		X	-	TO VALVE CONFIGURATION. SEE APPENDIX L
	(FW0011)		UT45			-	X	OF THIS REPORT.
			UT45T			X	-	
			UTOW	600-31/19		X	-	**SS-10**
			UT60			-	X	
<u>6-SI-2108-BB1 (FIG NO A-SI-3)</u>								
231800	1	B-J	PT	200-1/69		X	-	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
	VALVE TO PIPE	89.11	UTOL	800-114/2		X	-	TO VALVE CONFIGURATION. SEE APPENDIX L
	(FW0001)		UT45			X	-	OF THIS REPORT.
			UT45T			X	-	
			UTOW	600-31/19		X	-	**SS-9**
			UT60			-	X	
231820	2	B-J	PT	200-1/69		X	-	
	PIPE TO ELBOW	89.11	UTOL	800-114/2		X	-	
			UT45			-	X	
			UT45T			X	-	
			UTOW	600-31/19		X	-	**SS-9**
			UT45			-	X	

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

6-SI-2108-BB1 (FIG NO A-SI-3)

231540	3	B-J	PT	200-1/69	X	-	-	TWO UTOW CODE ALLOWABLE INDICATIONS.
	ELBOW TO PIPE	89.11	UTOL	800-114/2	X	-	-	SEE NF 018.
	(F95046)		UT45		-	X	-	
			UT45T		X	-	-	
			UTOW	600-31/19	-	-	X	**SS-9**

231860	4	B-J	PT	200-1/69	X	-	-	
	PIPE TO REDUCER	89.11	UTOL	800-114/2	X	-	-	
	(FW0002)		UT45		-	X	-	
			UT45T		X	-	-	
			UT45	600-31/19	X	-	-	**SS-9**

6-SI-2111-BB1 (FIG NO A-SI-3)

232060	1	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 ON THE VALVE SIDE DUE
	VALVE TO PIPE	89.11	UTOL	800-114/2	X	-	-	TO VALVE CONFIGURATION. SEE APPENDIX L
	(FW0001)		UT45		-	X	-	OF THIS REPORT.
			UT45T		X	-	-	
			UTOW	600-31/19	X	-	-	**SS-8**
			UT60		-	X	-	

232070	1A	B-J	PT	700-1/69	X	-	-	
	PIPE TO PIPE	89.11	UTOL	800-114/2	X	-	-	
	(FW8349)		UT45		-	X	-	
			UT45T		X	-	-	
								**SS-8**

232080	2	B-J	PT	200-1/69	X	-	-	
	PIPE TO REDUCING TEE	89.11	UTOL	800-114/2	X	-	-	
	(FW0002)		UT45		-	X	-	
			UT45T		X	-	-	
			UTOW	600-31/19	X	-	-	**SS-8**
			UT45		X	-	-	

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					O G T	R E H	
					E O E	C M R	**CALIBRATION BLOCK**
<u>6-SI-2208-881 (FIG NO A-SI-4)</u>							
232280 1	B-J	PT		200-1/69	X - -		ONE UTOW CODE ALLOWABLE INDICATION. SEE
VALVE TO PIPE	B9.11	UTOL		800-114/2	X - -		CNF 019. LIMITED UT45/UT60 ON THE VALVE
(1W0001)		UT45			- X -		SIDE DUE TO VALVE CONFIGURATION. SEE
		UT45T			X - -		APPENDIX L OF THIS REPORT.
		UTOW		600-31/19	- - X		**SS-9**
		UT60			- X -		
232300 2	B-J	PT		200-1/69	X - -		
PIPE TO F.BOW	B9.11	UTOL		800-114/2	X - -		
		UT45			- X -		
		UT45T			X - -		**SS-9**
232320 3	B-J	PT		200-1/69	X - -		
ELBOW TO PIPE	B9.11	UTOL		800-114/2	X - -		
		UT45			- X -		
		UT45T			X - -		**SS-9**
232340 4	B-J	PT		200-1/69	X - -		NO UT45T ON WELD DUE TO WELD
PIPE TO REDUCER	B9.11	UTOL		800-114/2	X - -		CONFIGURATION. SEE APPENDIX L OF THIS
(FW0002)		UT45			- X -		REPORT.
		UT45T			X - -		
		UTOW		600-31/19	X - -		**SS-9**
		UT45			- X -		
<u>6-SI-2211-881 (FIG NO A-SI-4)</u>							
232540 1	B-J	PT		200-1/69	X - -		LIMITED UT45/UT60 ON THE VALVE SIDE DUE
VALVE TO PIPE	B9.11	UTOL		800-114/2	X - -		TO VALVE CONFIGURATION. SEE APPENDIX L
(FW0004)		UT45			- X -		OF THIS REPORT.
		UT45T			X - -		
		UTOW		600-31/19	X - -		**SS-9**
		UT60			- X -		



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SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	PROCEDURE	N O G T R E H E O E C M R			REMARKS
-----								
<u>6-SI-2211-881 (FIG NO A-SI-4)</u>								
232560	2	B-J	PT	200-1/69	X	-	-	
	PIPE TO REDUCING TEE (FW0005)	B9.11	UT'L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
			UT0W	600-31/19	X	-	-	**SS-8**
			UT45		-	X	-	
<u>6-SI-2308-881 (FIG NO A-SI-5)</u>								
232760	1	B-J	PT	200-1/69	X	-	-	
	VALVE TO PIPE (FW0001)	B9.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	
			UT0W	600-31/19	X	-	-	**SS-9**
			UT60		-	X	-	
232780	3	B-J	PT	200-1/69	X	-	-	
	PIPE TO ELBOW (A-SW0002)	B9.11	UT'L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-9**
232800	4	B-J	PT	200-1/69	X	-	-	
	ELBOW TO PIPE (A-SW0003)	B9.11	UT0L	800-114/2	X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-9**
232820	5	B-J	PT	200-1/69	X	-	-	LIMITED UT45/UT60 AND NO UT45T ON THE
	PIPE TO REDUCING TEE (FW0002)	B9.11	UT0L	800-114/2	X	-	-	REDUCING TEE SIDE DUE TO REDUCING TEE
			UT45		-	X	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45T		X	-	-	REPORT.
			UT0W	600-31/19	X	-	-	**SS-9**
			UT60		-	X	-	

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O			REMARKS
					E	O	E	
					C	M	P	**CALIBRATION BLOCK**
<u>6-SI-2327-BB1 (FIG NO A-SI-5)</u>								
233020 1 VALVE TO PIPE (FW0033)	B-J 89.11	PT UT0L UT45 UT45T UT0W UT60		200-1/69 800-114/2  600-31/19	X X - X X -	- - X - - X	- - - - - -	LIMITED UT45/UT60 ON THE VALVE SIDE DUE TO VALVE CONFIGURATION, SEE APPENDIX K OF THIS REPORT.     <b>**SS-8**</b>
233040 2 PIPE TO ELBOW	B-J 89.11	PT UT0L UT45 UT45T		200-1/69 800-114/2	X X - X	- - X -	- - - -	    <b>**SS-8**</b>
233060 3 ELBOW TO PIPE	B-J 89.11	PT UT0L UT45 UT45T		200-1/69 800-114/2	X X - X	- - X -	- - - -	    <b>**SS-8**</b>
233080 4 PIPE TO PIPE (FW0034)	B-J 89.11	PT UT0L UT45 UT45T		200-1/69 800-114,2	X X - X	- - X -	- - - -	    <b>**SS-8**</b>
233100 5 PIPE TO ELBOW	B-J 89.11	PT UT0L UT45 UT45T		200-1/69 800-114/2	X X - X	- - X -	- - - -	    <b>**SS-8**</b>



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REACTOR COOLANT PUMP 2A

SUMMARY EXAMINATION AREA NUMERICAL IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O O G T R E H E O E C M R		REMARKS
.....	.....	.....	.....	.....	.....	.....	**CALIBRATION BLOCK**

PUMP BOLTING (FIG NO A-RCP-1)

260100	RCP-2A-PB PUMP BOLTS	B-G-1	UT45 UT60 UT88	600-18/41 DEV. 1 800-109/1	X - - X - - X - -		EXAMINED BOLT NOS. 1 THROUGH 24. UT VOLUME IS IN ACCORDANCE WITH CODE CASE N -307-1. **CS-40**
260120	RCP-2A-FS FLANGE SURFACE	B-G-1	VT	900-7/11	X - -		EXAMINATION INCLUDED 1 INCH ANNULAR SURFACE OF FLANGE SURROUNDING EACH PUMP BOLT.
260130	RCP-2A-SHB SEAL HOUSING BOLTS	B-G-2	VT	900-7/11	X - -		EXAMINED NOS. 1 THROUGH 16.

PUMP CASING WELDS (FIG NO A-RCP-1)

260140	RCP-2A-PCW PUMP CASING WELD	B-L-1	RT	SEE REMARKS			UT NOT FEASIBLE. SHOP EXAMINATION RECORDS TO BE USED FOR BASELINE.
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PUMP CASING (FIG NO A-RCP-1)

260160	RCP-2A-IS PUMP CASING INTERNAL SURFACES	B-L-2	VT-3	SEE REMARKS			PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
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FLYWHEEL (FIG NO A-RCP-2)

260170	RCP-2A-FW FLYWHEEL	1.14	UTO	800-108/2	X - -		EXAMINED BORE, KEYWAYS AND BOLT HOLES.  **CS-76**
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REACTOR COOLANT PUMP 2B

SUMMARY EXAMINATION AREA		ASME			M	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

PUMP BOLTING (FIG NO A-RCP-1)

260200	RCP-2B-PB PUMP BOLTS	B-G-1 86.180	UT45 UT60 UT88	600-18/41 DEV. 1 800-119/1	X	-	-	EXAMINED NOS. 1 THROUGH 24. UT VOLUME IS IN ACCORDANCE WITH CODE CASE N-307-1.  **CS-40**
260220	RCP-2B-FS FLANGE SURFACE	B-G-1 86.190	VT	900-7/11	X	-	-	EXAMINATION INCLUDED 1 INCH ANNULAR SURFACE OF FLANGE SURROUNDING EACH PUMP BOLT.
260230	RCP-2B-SHB SEAL HOUSING BOLTS	B-G-2 87.60	VT	900-7/11	X	-	-	EXAMINED NOS. 1 THROUGH 16.

PUMP CASING WELDS (FIG NO A-RCP-1)

260240	RCP-2B-PCW PUMP CASING WELD	B-L-1 812.10	RT	SEE REMARKS				UT NOT FEASIBLE. SHOP EXAMINATION RECORDS USED FOR BASELINE.
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PUMP CASING (FIG NO A-RCP-1)

260260	RCP-2B-IS PUMP CASING INTERNAL SURFACES	B-L-2 812.20	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
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FLYWHEEL (FIG NO A-RCP-2)

260270	RCP-2B-FW FLYWHEEL	1.14 RG	UT0	800-108/2	X	-	-	EXAMINED BORE, KEYWAYS AND BOLT HOLES.  **CS-76**
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REACTOR COOLANT PUMP 2C

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS
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**CALIBRATION BLOCK**						
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PUMP BOLTING (FIG NO A-RCP-1)

260300 RCP-2C-PB PUMP BOLTS	B-G-1 B6.180	UT45 UT60 UT88	600-18/41 DCV, 1 800-109/1	X - - X - - X - -	EXAMINED NOS. 1 THROUGH 24. UT VOLUME IS IN ACCORDANCE WITH CODE CASE N-307-1.	**CS-40**
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260320 RCP-2C-FS FLANGE SURFACE	B-G-1 B6.190	VT	900-7/11	- - X	EXAMINATION INCLUDED 1 INCH ANNULAR SURFACE OF FLANGE SURROUNDING EACH PUMP BOLT. TWO ROUND VT INDICATIONS. SEE CNF 001. EVALUATED AND ACCEPTED "AS IS" BY HL&P PERSONNEL.	
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260330 RCP-2C-SHB SEAL HOUSING BOLTS	B-G-2 B7.60	VT	900-7/11	X - -	EXAMINED NOS. 1 THROUGH 16.	
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PUMP CASING WELDS (FIG NO A-RCP-1)

260340 RCP-2C-PCW PUMP CASING WELD	B-L-1 B12.10	RT	SEE REMARKS		UT NOT FEASIBLE. SHOP EXAMINATION RECORDS TO BE USED FOR BASELINE.	
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PUMP CASING (FIG NO A-RCP-1)

260360 RCP-2C-IS PUMP CASING INTERNAL SURFACES	B-L-2 B12.20	VT-3	SEE REMARKS		PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.	
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FLYWHEEL (FIG NO A-RCP-3)

260370 RCP-2C-FW FLYWHEEL	1.14 RG	UT0	800-108/2	X - -	EXAMINED BORE, KEYWAYS AND BOLT HOLES.	**CS-76**
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REACTOR COOLANT PUMP 2D

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

PUMP BOLTING (FIG NO A-RCP-1)

260400	RCP-2D-PB PUMP BOLTS	B-G-1 B6.180	UT45 UT45 UT88	600-18/41 DEV. 1 800-109/1	X - - X - - X - -		EXAMINED NOS. 1 THROUGH 24. UT VOLUME IS IN ACCORDANCE WITH CODE CASE N-307-1.  **CS-40**
260420	RCP-2D-FS FLANGE SURFACE	B-G-1 B6.190	VT	900-7/11	X - -		EXAMINATION INCLUDED 1 INCH ANNUAL SURFACE OF FLANGE SURROUNDING EACH PUMP BOLT.
260430	RCP-2D-SHB SEAL HOUSING BOLTS	B-C-2 B7.30	VT	900-7/11	X - -		EXAMINED NOS. 1 THROUGH 16.

PUMP CASING WELDS (FIG NO A-RCP-1)

260440	RCP-2D-PCW PUMP CASING WELD	B-L-1 B12.10	RT	SEE REMARKS			UT NOT FEASIBLE. SHOP EXAMINATION RECORDS TO BE USED FOR BASELINE.
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PUMP CASING (FIG NO A-RCP-1)

260460	RCP-2D-IS PUMP CASING INTERNAL SURFACES	B-L-2 B12.20	VT-3	SEE REMARKS			PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
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FLYWHEEL (FIG NO A-RCP-2)

260470	RCP-2D-FW FLYWHEEL	1.14 RG	UTO	800-108/2	X - -		EXAMINED BORE, KEYWAYS AND BOLT HOLES.  **CS-7J**
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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD PROCEDURE	N O G T R E H E O E C M R	REMARKS
<u>6-RC-2004-NSS (FIG NO A-RC-6)</u>			
261100 PSV 3452-VB VALVE BOLTING	B-G-2 VT 87.70	900-7/11	X - -
261120 PSV 3452-VIS VALVE INTERNAL SURFACES	B-M-2 VT-3 812.50	SEE REMARKS	PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>6-RC-2009-NSS (FIG NO A-RC-6)</u>			
261160 PSV 3451-VB VALVE BOLTING	B-G-2 VT 87.70	900-7/11	X - -
261180 PSV 3451-VIS VALVE INTERNAL SURFACES	B-M-2 VT-3 812.50	SEE REMARKS	PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>6-RC-2012-NSS (FIG NO A-RC-6)</u>			
261200 PSV 3450-VB VALVE BOLTING	B-G-2 VT 87.70	900-7/11	X - -
261220 PSV 3450-VIS VALVE INTERNAL SURFACES	B-M-2 VT-3 812.50	SEE REMARKS	PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>6-RC-2003-BB1 (FIG NO A-RC-13)</u>			
261250 PCV 655B-VB VALVE BOLTING	B-G-2 VT 87.70	900-7/11	X - -



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SUMMARY NUMBER	EXAMINATION IDENTIFICATION AREA	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O			REMARKS
					E	O	E	
		ITEM NO			C	M	R	**CALIBRATION BLOCK**
<u>4-RC-2123-BB1 (FIG NO A-RC-14)</u>								
261280	PCV 655C-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	-	-	
<u>4-RC-2320-BB1 (FIG NO A-RC-10)</u>								
261300	XRC085-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	-	-	
<u>3-RC-2015-NSS (FIG NO A-RC-7)</u>								
261400	MOV 0001A-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	-	-	
261420	MOV 0001B-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	-	-	
261440	PCV 655A-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	-	-	
261460	PCV 656A-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	-	-	
<u>2-RC-2121-BB1 (FIG NO A-RC-16)</u>								
261650	RC0057A-VB VALVE BOLTING	-- --		SEE REMARKS				NO PRESSURE-RETAINING BOLTING OR VALVE BODY WELD.

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SUMMARY EXAMINATION AREA		ASME			N O	
NUMBER IDENTIFICATION		SEC. XI	CATGY EXAM	PROCEDURE	O G T	REMARKS
		ITEM NO	METHOD		R E H	
					E O E	**CALIBRATION BLOCK**
					C M I	
<u>2-RC-2121-BB1 (FIG NO A-RC-16)</u>						
261660	RC0058A-VB	**		SEE REMARKS		NO PRESSURE-RETAINING BOLTING OR VALVE BODY WELD.
	VALVE BOLTING	**				
<u>2-RC-2220-BB1 (FIG NO A-RC-17)</u>						
261670	RC0057B-VB	**		SEE REMARKS		NO PRESSURE-RETAINING BOLTING OR VALVE BODY WELD.
	VALVE BOLTING	**				
261680	RC0058B-VB	**		SEE REMARKS		NO PRESSURE-RETAINING BOLTING OR VALVE BODY WELD.
	VALVE BOLTING	**				
<u>2-RC-2321-BB1 (FIG NO A-RC-10)</u>						
261700	RC0057C-VB	**		SEE REMARKS		NO PRESSURE-RETAINING BOLTING OR VALVE BODY WELD.
	VALVE BOLTING	**				
261720	RC0058C-VB	**		SEE REMARKS		NO PRESSURE-RETAINING BOLTING OR VALVE BODY WELD.
	VALVE BOLTING	**				
<u>2-RC-2418-BB1 (FIG NO A-RC-19)</u>						
261750	RC0057D-VB	**		SEE REMARKS		NO PRESSURE-RETAINING BOLTING OR VALVE BODY WELD.
	VALVE BOLTING	**				

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				D	G	T	
				R	E	H	
				E	O	E	
				C	M	R	
				-	-	-	
SUMMARY EXAMINATION AREA		ASME				REMARKS	
NUMBER	IDENTIFICATION	SEC. XI	CATGY EXAM	ITEM NO	METHOD	PROCEDURE	
.....	.....	.....	.....	.....	.....	.....	.....
<u>2-RC-2418-BB1 (FIG NO A-RC-19)</u>							
261760	RC00580-VB	--				SEE REMARKS	NO PRESSURE-RETAINING BOLTING OR VALVE BODY WELD.
	VALVE BOLTING	--					
<u>2-RC-2419-BB1 (FIG NO A-RC-19)</u>							
261770	RC0082-VB	--				SEE REMARKS	NO PRESSURE-RETAINING BOLTING OR VALVE BODY WELD.
	VALVE BOLTING	--					

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CHEMICAL AND VOLUME CONTROL SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**
.....					-	-	-	.....
<u>4-CV-2001-881 (FIG NO A-CV-1)</u>								
262100	LCV 465-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-	
262120	LCV 468-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-	
<u>4-CV-2118-881 (FIG NO A-CV-2)</u>								
262150	XCV0001-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-	
262170	XCV0002-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-	
<u>4-CV-2120-881 (FIG NO A-CV-2)</u>								
262200	XCV0004-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-	
262220	XCV0005-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-	
<u>2-CV-2121-881 (FIG NO A-CV-3)</u>								
262250	LV 3119-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-	

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CHEMICAL AND VOLUME CONTROL SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY EXAM	PROCEDURE	O	G	T
		ITEM NO	METHOD		R	E	H
					E	O	E
					C	M	R
<u>2-CV-2121-881 (FIG NO A-CV-3)</u>							
262270	CV0009-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.
<u>2-CV-2122-881 (FIG NO A-CV-4)</u>							
262300	CV0036A-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.
262320	CV0037A-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.
<u>2-CV-2124-881 (FIG NO A-CV-5)</u>							
262350	CV0036B-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.
262370	CV0037B-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.
<u>2-CV-2126-881 (FIG NO A-CV-5)</u>							
262400	CV0036C-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	D	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>2-CV-2126-BB1 (FIG NO A-CV-5)</u>							
262420	CV0037C-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.
<u>2-CV-2128-BB1 (FIG NO A-CV-6)</u>							
262460	CV0036D-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.
262470	CV0037D-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.
<u>2-CV-2141-BB1 (FIG NO A-CV-7)</u>							
262500	MOV 0082-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.
262520	MOV 0082-VB	**		SEE REMARKS			NO PRESSURE-RETAINING BOLTING OR VALVE
	VALVE BOLTING	**					BODY WELD.

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RESIDUAL HEAT REMOVAL SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O			
		SEC. XI			O	G			
		CATGY	EXAM			R	E		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS	
					C	M	R	**CALIBRATION BLOCK**	
-----		-----		-----	-	-	-	-----	
<u>12-RH-2101-BB1 (FIG NO A-RH-1)</u>									
263100	MOV 0060A-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-		
263120	MOV 0060A-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.	
263130	MOV 0061A-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-		
263150	MOV 0061A-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.	
<u>12-RH-2201-BB1 (FIG NO A-RH-2)</u>									
263200	MOV 0060B-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-		
263220	MOV 0060B-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.	
263230	MOV 0061B-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	-	-	X	VT INDICATIONS (LOOSE BOLTS). SEE CNF 061. REEXAMINATION AFTER BOLTS HAD BEEN PROPERLY TORQUED REVEALED NO RECORDABLE INDICATIONS.	

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RESIDUAL HEAT REMOVAL SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**
<u>12-RH-2201-BB1 (FIG NO A-RH-2)</u>								
263250	MOV 0061B-VIS VALVE INTERNAL SURFACES	B-M-2	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>12-RH-2301-BB1 (FIG NO A-RH-3)</u>								
263300	MOV 0060C-VB VALVE BOLTING	B-G-2	VT	900-7/11	X	-	-	
263320	MOV 0060C-VIC VALVE INTERNAL SURFACES	B-M-2	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
263330	MOV 0061C-VB VALVE BOLTING	B-G-2	VT	900-7/11	X	-	-	
263350	MOV 0061C-VIS VALVE INTERNAL SURFACES	B-M-2	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>8-RH-2106-BB1 (FIG NO A-RH-4)</u>								
263400	XR0032A-VB VALVE BOLTING	B-G-2	VT	900-7/11	X	-	-	
263420	XR0032A-VIS VALVE INTERNAL SURFACES	B-M-2	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.



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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>8-RH-2112-BB1 (FIG NO A-RH-4)</u>							
263460	XRH0020A-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	.	.
263480	XRH0020A-VIS VALVE INTERNAL SURFACES	B-M-2 B12.50	VT-3	SEE REMARKS			PSI NOT REQUIRED PER ASME CODE INTERPRETATION X1-1-86-20.
<u>8-RH-2208-BB1 (FIG NO A-RH-2)</u>							
263510	XRH0032B-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	.	.
263530	XRH0032B-VIS VALVE INTERNAL SURFACES	B-M-2 B12.50	VT-3	SEE REMARKS			PSI NOT REQUIRED PER ASME CODE INTERPRETATION X1-1-86-20.
<u>8-RH-2212-BB1 (FIG NO A-RH-2)</u>							
263570	XRH0020B-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	.	.
263590	XRH0020B-VIS VALVE INTERNAL SURFACES	B-M-2 B12.50	VT-3	SEE REMARKS			PSI NOT REQUIRED PER ASME CODE INTERPRETATION X1-1-86-20.
<u>8-RH-2308-BB1 (FIG NO A-RH-5)</u>							
263620	XRH0032C-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	.	.

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REH
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
					-	-	-	
<u>8-RH-2308-BB1 (FIG NO. 5)</u>								
263640	XRH0032C-VIS VALVE INTERNAL SURFACES	B-N-2 812.50	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>8-RH-2315-BB1 (FIG NO A-RH-5)</u>								
263670	XRH0020C-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	-	
263690	XRH0020C-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.

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SAFETY INJECTION SYSTEM

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**
			*	*	*	
<u>12-SI-2125-BB1 (FIG NO A-SI-1)</u>						
264100 XS10038A-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	*	*
264120 XS10038A-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS			PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
264130 XS10046A-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	*	*
264170 XS10046A-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS			PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>12-SI-2218-BB1 (FIG NO A-SI-2)</u>						
264200 XS10038B-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	*	*
264220 XS10038B-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS			PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
264230 XS10046B-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	*	*

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	N O G T R E H E O E C M R - - -	REMARKS **CALIBRATION BLOCK**
<u>12-SI-2218-BB1 (FIG NO A-SI-2)</u>				
264250 XS10046B-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS	PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>12-SI-2315-BB1 (FIG NO A-SI-2)</u>				
264300 XS10038C-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X - -
264320 XS10038C-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS	PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
264330 XS10046C-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X - -
264370 XS10046C-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS	PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>8-SI-2108-BB1 (FIG NO A-SI-3)</u>				
264400 XS10010A-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X - -
264420 XS10010A-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS	PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	W O O G T R E H E O E C M R			REMARKS
-----							
<u>8-SI-2208-B21 (FIG NO A-SI-4)</u>							
264450 XS10010B-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	-	-	
264470 XS10010B-VIS VALVE INTERNAL SURFACES	B-M-2 B12.50	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>8-SI-2327-BB1 (FIG NO A-SI-5)</u>							
264500 XS10010C-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	-	-	
264520 XS10010C-VIS VALVE INTERNAL SURFACES	B-M-2 B12.50	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>6-SI-2108-BB1 (FIG NO A-SI-3)</u>							
264600 XS10009A-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	-	-	
264610 XS10009A-VIS VALVE INTERNAL SURFACES	B-M-2 B12.50	VT-3	SEE REMARKS				PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
<u>6-SI-2111-BB1 (FIG NO A-SI-3)</u>							
264640 XS10007A-VB VALVE BOLTING	B-G-2 B7.70	VT	900-7/11	X	-	-	

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SAFETY INJECTION SYSTEM

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O T R E H E R E			REMARKS
					C	M	R	
.....								**CALIBRATION BLOCK**
.....								.....

5-SI-2111-BB1 (FIG NO A-SI-3)

264650 XS10007A-VIS 8-M-2 VT-3 SEE REMARKS PSI NOT REQUIRED PER ASME CODE  
 VALVE INTERNAL SURFACES 812.50 INTERPRETATION XI-1-86-20.

6-SI-2208-BB1 (FIG NO A-SI-4)

264680 XS10009B-VB 8-G-2 VT 900-7/11 X - -  
 VALVE BOLTING 87.70

264690 XS10009B-VIS 8-M-2 VT-3 SEE REMARKS PSI NOT REQUIRED PER ASME CODE  
 VALVE INTERNAL SURFACES 812.50 INTERPRETATION XI-1-86-20.

6-SI-2211-BB1 (FIG NO A-SI-4)

264720 XS10007B-VB 8-G-2 VT 900-7/11 X - -  
 VALVE BOLTING 87.70

264730 XS10007B-VIS 8-M-2 VT-3 SEE REMARKS PSI NOT REQUIRED PER ASME CODE  
 VALVE INTERNAL SURFACES 812.50 INTERPRETATION XI-1-86-20.

6-SI-2308-BB1 (FIG NO A-SI-5)

264760 XS10007C-VB 8-G-2 VT 900-7/11 X - -  
 VALVE BOLTING 87.70

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SAFETY INJECTION SYSTEM

SUMMARY EXAMINATION AREA		ASME			P	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

6-SI-2308-BB1 (FIG NO A-SI-5)

264770	XS10007C-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS			PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
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6-SI-2327-BB1 (FIG NO A-SI-5)

264800	XS10009C-VB VALVE BOLTING	B-G-2 87.70	VT	900-7/11	X	-	
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264810	XS10009C-VIS VALVE INTERNAL SURFACES	B-M-2 812.50	VT-3	SEE REMARKS			PSI NOT REQUIRED PER ASME CODE INTERPRETATION XI-1-86-20.
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**PRESERVICE INSPECTION SUMMARY REPORT  
FOR CLASS 1 AND CLASS 2  
PRESSURE RETAINING COMPONENTS**

at the

**SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION-UNIT 2**

**P.O. Box 308  
Bay City, Texas 77414**

**VOLUME II**

**Owner:** Houston Lighting & Power Company  
City Public Service Board  
of San Antonio  
Central Power and Light Company  
City of Austin

**Address:** P.O. Box 1700  
Houston, Texas 77001

**Issue Date:** September 1988



APPENDIX I

CLASS 2 EXAMINATION SUMMARY TABLES

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SOUTH TEXAS GENERATING STATION UNIT 2  
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STEAM GENERATOR 2A (SECONDARY SIDE)

					N	O		
					O	G	T	
					R	E	H	
					E	O	E	REMARKS
SUMMARY EXAMINATION AREA		ASME	EXAM		C	M	R	**CALIBRATION BLOCK**
NUMBER	IDENTIFICATION	SEC. XI	METHOD	PROCEDURE				
		CATGY	ITEM NO					
<u>CIRCUMFERENTIAL WELDS (FIG. NO B-SG-1)</u>								
300000	SG-2A-S1	C-A	UTOL	600-15/67	X	-	-	LIMITED UT ON BOTH SIDES OF THE WELD DUE
	TUBE PLATE TO STUB BARREL	C1.30	UTOW		X	-	-	TO PROXIMITY OF INSTRUMENTATION L
			UT45		X	-	-	AND INSPECTION HOLES. SEE APPENDIX L OF
			UT45T		X	-	-	THIS REPORT.
			UT60		X	-	-	**CS-55**
			UT60T		X	-	-	
300050	SG-2A-S2	C-A	UTOL	600-15/67	X	-	-	
	STUB BARREL TO LOWER SHELL	C1.10	UTOW		X	-	-	
	SECTION A		UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-55**
			UT60T		X	-	-	
300100	SG-2A-S3	C-A	UTOL	600-15/67	X	-	-	
	LOWER SHELL SECTION A TO LOWER	C1.10	UTOW		X	-	-	
	SHELL SECTION B		UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-54/CS-55**
			UT60T		X	-	-	
300150	SG-2A-S4	C-A	UTOL	600-15/67	X	-	-	
	LOWER SHELL SECTION B TO	C1.10	UTOW		X	-	-	
	TRANSITION CONE		UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-54**
			UT60T		X	-	-	
300200	SG-2A-S5	C-A	UTOL	600-15/67	X	-	-	
	TRANSITION CONE TO UPPER SHELL	C1.10	UTOW		X	-	-	
	SECTION C		UT45		-	X	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-54**
			UT60T		X	-	-	

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STEAM GENERATOR 2A (SECONDARY SIDE)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O O G T R E H E O E			REMARKS
					C	M	R	
.....	.....	.....	.....	.....	-	-	-	**CALIBRATION BLOCK**

CIRCUMFERENTIAL WELDS (FIG NO B-SG-1)

300250	SG-2A-56	C-A		SEE REMARKS				NO EXAMINATION REQUIRED PER ASME SECTION XI SINCE THIS WELD IS NOT A STRUCTURAL DISCONTINUITY.
	UPPER SHELL SECTION C TO UPPER C1.10 SHELL SECTION D							
300300	SG-2A-57	C-A	UTOL	600-15/67	X	-	-	
	UPPER SHELL SECTION D TO UPPER C1.20 HEAD		UTOW		X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-54**
			UT60T		X	-	-	

UPPER HEAD MERIDIONAL WELDS (FIG NO B-SG-1)

300320	SG-2A-W13	C-A	UT	SEE REMARKS				NO EXAMINATION REQUIRED PER ASME SECTION XI.
	MERIDIONAL WELD	--						
300330	SG-2A-W14	C-A	UT	SEE REMARKS				NO EXAMINATION REQUIRED PER ASME SECTION XI.
	MERIDIONAL WELD	--						

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-SG-1)

300350	SG-2A-FW10	C-B	MT	300-1/33	X	-	-	
	FEEDWATER NOZZLE TO STUB BARREL	C2.21	UTOL	600-15/67	X	-	-	
			UTOW		X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-55**
			UT60		X	-	-	
			UT60T		X	-	-	

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STEAM GENERATOR 2A (SECONDARY SIDE)

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMRER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	**CALIBRATION BLOCK**
.....					C	M	R	.....

NOZZLE TO UPPER SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-SG-1)

300400	SG-2A-FW10-1R	C-B	UT25	600-11/43	X	-	-	
	INSIDE RADIUS SECTION	C2.22	UT29		X	-	-	
								**CSCL-41**
300450	SG-2A-AF9	C-B	MT	300-1/33	X	-	-	
	AUXILIARY FEEDWATER NOZZLE TO	C2.21	UT0L	600-15/67	X	-	-	
	UPPER SHELL SECTION C		UT0W		X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-54**
			UT60		X	-	-	
			UT60T		X	-	-	
300500	SG-2A-MSB	C-B	MT	300-1/33	X	-	-	
	UPPER HEAD TO STEAM OUTLET	C2.21	UT0L	600-15/57	X	-	-	
	NOZZLE		UT0W		X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-54**
			UT60		X	-	-	
300550	SG-2A-MSB-1R	C-B	UT	SEE REMARKS				EXAMINATION NOT REQUIRED PER H&P RELIEF
	INSIDE RADIUS SECTION	C2.22						REQUEST RR-ENG-03.

INTEGRAL ATTACHMENTS (FIG NO B-SG-1)

300650	SG-2A-TR11	C-C	PT	200-1/69	X	-	-	
	TRUNNION A	C3.10						

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STEAM GENERATOR 2A (SECONDARY SIDE)

SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**
.....		.....	.....	.....	-	-	.....

INTEGRAL ATTACHMENTS (FIG NO B-SG-1)

300700	SG-2A-TR12	C-C	PT	200-1/69	X	-	-
	TRUNNION 3	C3.10					

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STEAM GENERATOR 2B (SECONDARY SIDE)

					N	C			
					O	G	T		
					R	E	H		
SUMMARY EXAMINATION AREA					C	M	R	REMARKS	
NUMBER	IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<u>CIRCUMFERENTIAL WELDS (FIG NO B-SG-1)</u>									
301100	SG-2B-F1 TUBE PLAT. TO STUB BARREL	C-A C1.30	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - - - X X - - X - - X - - X - -	-	-	-	ONE UT0W CODE ALLOWABLE INDICATION. SEE CNF 087, LIMITED UT ON BOTH SIDES OF THE WELD DUE TO PROXIMITY OF INSTRUMENTATION LINES AND INSPECTION HOLES. SEE APPENDIX L OF THIS REPORT. **CS-55**
301150	SG-2B-S2 STUB BARREL TO LOWER SHELL SECTION A	C-A C1.10	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	-	-	-	**CS-55**
301200	SG-2B-S3 LOWER SHELL SEC. A TO LOWER SHELL SEC. SECTION B	C-A C1.10	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - - - X X - - X - - X - - X - -	-	-	-	FOUR UT0W CODE ALLOWABLE INDICATIONS. SEE CNF 085. **CS-54/CS-55**
301250	SG-2B-S4 LOWER SHELL SECTION B TO TRANSITION CONE	C-A C1.10	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - X - - X - - X - - X - - X - -	-	-	-	**CS-54**
301300	SG-2B-S5 TRANSITION CONE TO UPPER SHELL SECTION C	C-A C1.10	UT0L UT0W UT45 UT45T UT60 UT60T	600-15/67	X - - X - - - X - X - - X - - X - -	-	-	-	**CS-54**

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STEAM GENERATOR 2B (SECONDARY SIDE)

SUMMARY EXAMINATION AREA				N	O		
ASME				O	G	T	
SEC. XI				R	E	N	
CATGY EXAM				E	O	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R
.....	.....	.....	.....	.....	.....	.....	.....
							**CALIBRATION BLOCK**

CIRCUMFERENTIAL WELDS (FIG NO B-SG-1)

301350	SG-2B-86	C-A		SEE REMARKS				NO EXAMINATION REQUIRED PER ASME SECTION XI SINCE THIS WPLD IS NOT A STRUCTURAL DISCONTINUITY.
	UPPER SHELL SECTION C TO UPPER C1.10							
	SHELL SECTION C							
301400	SG-2B-87	C-A	UTOL	600-15/67	X	-	-	
	UPPER SHELL SECTION D TO UPPER C1.20		UTOW		X	-	-	
	HEAD		UT45		X	-	-	
			UT4JT		X	-	-	
			UT60		X	-	-	**CS-54**
			UT60T		X	-	-	

UPPER HEAD MERIDIONAL WELDS (FIG NO B-SG-1)

301420	SG-2B-M13	C-A	UT	SEE REMARKS				NO EXAMINATION REQUIRED PER ASME SECTION XI.
	MERIDIONAL WELD	--						
301430	SG-2B-M14	C-A	UT	SEE REMARKS				NO EXAMINATION REQUIRED PER ASME SECTION XI.
	MERIDIONAL WELD	--						

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-SG-1)

301450	SG-2B-FW10	C-B	MT	300-1/33	X	-	-	
	FEEDWATER NOZZLE TO STUB	C2.21	UTOL	600-15/67	X	-	-	
	BARREL		UTOW		X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-55**
			UT60		X	-	-	
			UT60T		X	-	-	

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TEAM GENERATOR 2B (SECONDARY SIDE)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O T R E H C O D E			REMARKS
					C	M	R	
.....								**CALIBRATION BLOCK**
.....								.....

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-SG-1)

301500	SG-2B-FW10-IR INSIDE RADIUS SECTION	C-8 C2.22	UT25 UT29	600-11/43	X	-	-	
					X	-	-	**CSCL-41**
301550	SG-2B-AF9 AUXILIARY FEEDWATER NOZZLE TO UPPER SHELL SECTION C	C-8 C2.21	MT UT0L UT0W UT45 UT45T UT60 UT60T	300-1/33 600-15/67	X	-	-	
					X	-	-	**CS-54**
					X	-	-	
					X	-	-	
					X	-	-	
					X	-	-	
301650	SG-2B-MS8 UPPER HEAD TO STEAM OUTLET NOZZLE	C-8 C2.21	MT UT0L UT0W UT45 UT45T UT60 UT60T	300-1/33 600-15/67	X	-	-	
					X	-	-	**CS-54**
					X	-	-	
					X	-	-	
					X	-	-	
301700	SG-2B-MS8-IR INSIDE RADIUS SECTION	C-8 C2.22	UT	SEE REMARKS				NO EXAMINATION REQUIRED PER HL&P RELIEF REQUEST RR-ENG-03.

INTEGRAL ATTACHMENTS (FIG NO B-SG-1)

301750	SG-2B-TR11 TRUNNION A	C-C C3.10	PT	200-1/69	X	-	-	
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STEAM GENERATOR 2B (SECONDARY SIDE)

				N	O		
				O	G	T	
				R	E	H	
SUMMARY EXAMINATION AREA		CATGY	EXAM	E	O	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R
-----	-----	-----	-----	-----	-	-	-----

INTEGRAL ATTACHMENTS (F, G, NO B-SG-1)

301800	SG-2B-TR12	C-C	PT	200-1/69	X	-	-
	TRUNNION B	C3.10					

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STEAM GENERATOR 2C (SECONDARY SIDE)

SUMMARY EXAMINATION AREA		ASME	EXAM	PROCEDURE	M	O	REMARKS
NUMBER	IDENTIFICATION	SEC. XI	METHOD		O	G	
		CATGY			R	E	
		ITEM NO			E	O	
					C	M	**CALIBRATION BLOCK**
					-	-	
<u>CIRCUMFERENTIAL WELDS (FIG NO B-SG-1)</u>							
302200	SG-2C-S1	C-A	UT0L	600-15/67	X	-	LIMITED UT ON BOTH SIDES OF THE WELD DUE
	TUBE PLATE TO STUB BARREL	C1.30	UT0W		X	-	TO PROXIMITY OF INSTRUMENTATION LINES
			UT45		X	-	AND INSPECTION HOLES. SEE APPENDIX L OF
			UT45T		X	-	THIS REPORT.
			UT60		X	-	**CS-55**
			UT60T		X	-	
302250	SG-2C-S2	C-A	UT0L	600-15/67	X	-	
	STUB BARREL TO LOWER SHELL	C1.10	UT0W		X	-	
	SECTION A		UT45		X	-	
			UT45T		X	-	
			UT60		X	-	**CS-55**
			UT60T		X	-	
302300	SG-2C-S3	C-A	UT0L	600-15/67	X	-	
	LOWER SHELL SECTION A TO LOWER	C1.10	UT0W		X	-	
	SHELL SECTION B		UT45		X	-	
			UT45T		X	-	
			UT60		X	-	**CS-54/CS-55**
			UT60T		X	-	
302350	SG-2C-S4	C-A	UT0L	600-15/67	X	-	
	LOWER SHELL SECTION B TO	C1.10	UT0W		X	-	
	TRANSITION CONE		UT45		X	-	
			UT45T		X	-	
			UT60		X	-	**CS-54**
			UT60T		X	-	
302400	SG-2C-S5	C-A	UT0L	600-15/67	X	-	
	TRANSITION CONE TO UPPER SHELL	C1.10	UT0W		X	-	
	SECTION C		UT45		-	X	
			UT45T		X	-	
			UT60		X	-	**CS-54**
			UT60T		X	-	

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STEAM GENERATOR 2C (SECONDARY SIDE)

				N	O		
				O	G	T	
				R	E	H	
SUMMARY EXAMINATION AREA				E	O	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R
-----	-----	-----	-----	-----	-	-	-
							**CALIBRATION BLOCK**
-----	-----	-----	-----	-----	-	-	-----

CIRCUMFERENTIAL WELDS (FIG NO B-SG-1)

302450	SG-2C-S6	C-A		SEE REMARKS				NO EXAMINATION REQUIRED PER ASME SECTION XI SINCE THIS WELD IS NOT A STRUCTURAL DISCONTINUITY.
	UPPER SHELL SECTION C TO UPPER C1.10							
	SHELL SECTION D							
302500	SG-2C-S7	C-A	UTOL	600-15/67	X	-	-	
	UPPER SHELL SECTION D TO UPPER C1.20		UTOW		X	-	-	
	HEAD		UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-54**
			UT60T		X	-	-	

UPPER HEAD MERIDIONAL WELDS (FIG NO B-SG-1)

302520	SG-2C-M13	C-A	UT	SEE REMARKS				NO EXAMINATION REQUIRED PER ASME SECTION XI.
	MERIDIONAL WELD	--						
302530	SG-2C-M14	C-A	UT	SEE REMARKS				NO EXAMINATION REQUIRED PER ASME SECTION XI.
	MERIDIONAL WELD	--						

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-SG-1)

302550	SG-2C-FW10	C-B	MT	300-1/33	X	-	-	
	FEEDWATER NOZZLE TO STUB	C2.21	UTOL	600-15/67	X	-	-	
	BARREL		UTOW		X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-55**
			UT60		X	-	-	
			UT60T		X	-	-	

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STEAM GENERATOR 2C (SECONDARY SIDE)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	W	O	REMARKS
					O	G	
					E	O	E
					C	M	R
							**CALIBRATION BLOCK**

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-SG-1)

302600	SG-2C-FW10-IR	C-B	UT25	600-11/43	X	-	-	
	INSIDE RADIUS SECTION	C2.22	UT29		X	-	-	
								**CSCL-41**
302650	SG-2C-F9	C-B	MT	300-1/33	X	-	-	
	AUXILIARY FEEDWATER NOZZLE TO	C2.21	UT0L	600-15/67	X	-	-	
	UPPER SHELL SECTION C		UT0W		X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-54**
			UT60		X	-	-	
			UT60T		X	-	-	
302700	SG-2C-MS8	C-B	MT	300-1/33	X	-	-	
	UPPER HEAD TO STEAM OUTLET	C2.21	UT0L	600-15/67	X	-	-	
	NOZZLE		UT0W		X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-54**
			UT60		X	-	-	
			UT60T		X	-	-	
302750	SG-2C-MS8-IR	C-B	UT	SEE REMARKS				EXAMINATION NOT REQUIRED PER HL&P RELIEF
	INSIDE RADIUS SECTION	C2.22						REQUEST RR-ENG-03.

INTEGRAL ATTACHMENTS (FIG NO B-SG-1)

302850	SG-2C-TR11	C-C	PT	200-1/69	X	-	-	
	TRUNNION A	C3.10						

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STEAM GENERATOR 2C (SECONDARY SIDE)

				N	O		
				O	G	T	
				R	E	H	
				E	O	E	REMARKS
SUMMARY EXAMINATION AREA	CATGY	EXAM		C	M	R	
NUMBER IDENTIFICATION	ITEM NO	METHOD	PROCEDURE				**CALIBRATION BLOCK**
-----							

INTEGRAL ATTACHMENTS (FIG NO 8-SG-1)

302900	SG-2C-TR12	C-C	PT	200-1/69	X	-	-
	TRUNNION B	C3.10					

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STEAM GENERATOR 2D (SECONDARY SIDE)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M O			REMARKS
					O	G	T	
					R	E	H	
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**

CIRCUMFERENTIAL WELDS (FIG NO B-SG-1)

303300	SG-2D-S1	C-A	UT0L	600-15/67	X	-	-	LIMITED UT ON BOTH SIDES OF THE WELD DUE
	TUBE PLATE TO STUB BARREL	C1.30	UT0W		X	-	-	TO PROXIMITY OF INSTRUMENTATION LINES
			UT45		X	-	-	AND INSPECTION HOLES. SEE APPENDIX L OF
			UT45T		X	-	-	THIS REPORT.
			UT60		X	-	-	**CS-55**
			UT60T		X	-	-	
303350	SG-2D-S2	C-A	UT0L	600-15/67	X	-	-	
	STUB BARREL TO LOWER SHELL	C1.10	UT0W		X	-	-	
	SECTION A		UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-55**
			UT60T		X	-	-	
303400	SG-2D-S3	C-A	UT0L	600-15/67	-	-	X	ONE UT0L A <sup>2</sup> , TWO UT0W CODE ALLOWABLE
	LOWER SHELL SECTION A TO LOWER	C1.10	UT0W		-	-	X	INDICATIONS. SEE CNF 086.
	SHELL SECTION B		UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-54/CS-55**
			UT60T		X	-	-	
303450	SG-2D-S4	C-A	UT0L	600-15/67	X	-	-	
	LOWER SHELL SECTION B TO	C1.10	UT0W		X	-	-	
	TRANSITION CONE		UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-54**
			UT60T		X	-	-	
303500	SG-2D-S5	C-A	UT0L	600-15/67	X	-	-	
	TRANSITION CONE TO UPPER SHELL	C1.10	UT0W		X	-	-	
	SECTION C		UT45		X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-54**
			UT60T		X	-	-	

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STEAM GENERATOR 2D (SECONDARY SIDE)

SUMMARY EXAMINATION AREA				N	O	REMARKS
ASME SEC. XI				O	G	
CATGY EXAM				R	E	
NUMBER IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	
-----				C	M	**CALIBRATION BLOCK**
-----				-	-	-----

CIRCUMFERENTIAL WELDS (FIG NO B-SG-1)

303550	SG-2D-S6	C-A		SEE REMARKS		NO EXAMINATION REQUIRED PER ASME SECTION XI SINCE THIS WELD IS NOT A STRUCTURAL DISCONTINUITY.
	UPPER SHELL SECTION C TO UPPER C1.10					
	SHELL SECTION D					
303600	SG-2D-S7	C-A	UT0L	600-15/67	X - -	
	UPPER SHELL SECTION D TO UPPER C1.20		UT0W		X - -	
	HEAD		UT45		X - -	
			UT45T		X - -	
			UT60		X - -	**CS-54**
			UT60T		X - -	

UPPER HEAD MERIDIONAL WELDS (FIG NO B-SG-1)

303620	SG-2D-M13	C-A	UT	SEE REMARKS		NO EXAMINATION REQUIRED PER ASME SECTION XI.
	MERIDIONAL WELD	--				
303630	SG-2D-M14	C-A	UT	SEE REMARKS		NO EXAMINATION REQUIRED PER ASME SECTION XI.
	MERIDIONAL WELD	--				

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-SG-1)

303650	SG-2D-FW10	C-B	MT	300-1/33	X - -	
	FEEDWATER NOZZLE TO STUB	C2.21	UT0L	600-15/67	X - -	
	BARREL		UT0W		X - -	
			UT45		X - -	
			UT45T		X - -	**CS-55**
			UT60		X - -	
			UT60T		X - -	

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STEAM GENERATOR 2D (SECONDARY SIDE)

SUMMARY EXAMINATION AREA		ASME	EXAM	PROCEDURE	N	O	REMARKS
NUMBER	IDENTIFICATION	SEC. XI	CATGY	ITEM NO	UT	GT	
					RE	HE	
					EOE		**CALIBRATION BLOCK**
					CMR		

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-SG-1)

303700	SG-2D-FW10-1R	C-B	UT25	600-11/43	X	-	
	INSIDE RADIUS SECTION	C2.22	UT29		X	-	
							**CSCL-41**
303750	SG-2D-AF9	C-B	MT	300-1/33	X	-	
	AUXILIARY FEEDWATER NOZZLE TO	C2.21	UT0L	600-15/67	X	-	
	UPPER SHELL SECTION C		UT0W		X	-	
			UT45		X	-	
			UT45T		X	-	**CS-54**
			UT60		X	-	
			UT60T		X	-	
303800	SG-2D-MS8	C-B	MT	300-1/33	X	-	
	UPPER HEAD TO STEAM OUTLET	C2.21	UT0L	600-15/67	X	-	
	NOZZLE		UT0W		X	-	
			UT45		X	-	
			UT45T		X	-	**CS-54**
			UT60		X	-	
			UT60T		X	-	
303850	SG-2D-MS8-1R	C-B	UT	SEE REMARKS			EXAMINATION NOT REQUIRED PER HL&P RELIEF
	INSIDE RADIUS SECTION	C2.22					REQUEST RR-ENG-03.

INTEGRAL ATTACHMENTS (FIG NO B-SG-1)

303950	SG-2D-TR11	C-C	PT	200-1/69	X	-	
	TRUNNION A	C3.10					



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STEAM GENERATOR 2D (SECONDARY SIDE)

				N	O		
				O	G	T	
				R	E	H	
SUMMARY EXAMINATION AREA		CATGY	EXAM	E	O	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R
-----	-----	-----	-----	-----	-	-	-----
							**CALIBRATION BLOCK**

INTEGRAL ATTACHMENTS (FIG NO 9-SG-1)

303960	SG-2D-TR12	C-C	PT	200-1/69	X	-	-
	TRUNNION B	C3.10					

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REGENERATIVE HEAT EXCHANGER (FIGURE B-RGX-1)

SUMMARY EXAMINATION AREA		ASME			M	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**

CIRCUMFERENTIAL WELDS

304400	CSAHRG-2A-S1 NOZZLE TO TUBE SHEET	C-B C2.21	PT UT0L UTOW UT45 UT45T UT60	200-1/69 600-45/2	X - - X - - - - X - - X X - - - X -		TWO UTOW AND ONE UT45 CODE ALLOWABLE INDICATIONS. SEE CNF 066. LIMITED UT45 AND UT45T FROM THE NOZZLE SIDE DUE TO PROXIMITY OF BRANCH CONNECTION. NO UT45 OR UT45T FROM TUBE SHEET SIDE DUE TO TUBE SHEET CONFIGURATION. SEE APPENDIX L. **SS-64**
304425	CSAHRG-2A-S1A TUBE SHEET TO TUBE SHEET	C-A --		SEE REMARKS			AS RECOMMENDED BY HL&P NO ASME SECTION XI ITEM NO. HAS BEEN ASSIGNED. THEREFORE, NO EXAMINATION IS REQUIRED PER ASME SECTION XI.
304450	CSAHRG-2A-S2 TUBE SHEET TO SHELL	C-A C1.30	UT0L UTOW UT45 UT45T UT60	600-45/2	X - - X - - - X - X - - - X -		LIMITED UT45/UT60 FROM THE SHELL SIDE DUE TO PROXIMITY OF BRANCH CONNECTION. NO UT45/UT60 FROM THE TUBE SHEET SIDE DUE TO TUBE SHEET CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-63**
304500	CSAHRG-2A-S3 SHELL TO NOZZLE	C-A C1.10	UT0L UTOW UT45 UT45T UT60	600-45/2	X - - X - - - X - X - - - X -		**SS-62/SS-63**
304550	CSAHRG-2A-S4 SHELL TO CAP	C-A C1.10	UT0L UTOW UT45 UT45T UT60	600-45/2	X - - X - - - X - X - - X - -		**SS-61**

REGENERATIVE HEAT EXCHANGER (FIGURE B-RGX-1)

SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		
			ITEM NO	METHOD	PROCEDURE	R E H	
						E O E	
						C M R	
						REMARKS	
						**CALIBRATION BLOCK**	
<u>CIRCUMFERENTIAL WELDS</u>							
304600	CSAHRG-2A-S5 SHELL TO CAP	C-A C1.10	UTOL UTOW UT45 UT45T UT60	600-45/2	X - - - - X - X - X - - X - -		ONE UTOW CODE ALLOWABLE INDICATION. SEE C4F 074.  **SS-61**
304650	CSAHRG-2A-S6 REINFORCING COLLAR TO SHELL	C-A C1.10	UTOL UTOW UT45 UT45T UT60	600-45/2	X - - X - - - X - X - - - X -		    **SS-62/SS-63**
304700	CSAHRG-2A-S7 SHELL TO TUBE SHEET	C-A C1.30	UTOL UTOW UT45 UT45T UT60	600-45/2	X - - X - - - X - X - - - X -		LIMITED UT45/UT60 FROM THE SHELL SIDE DUE TO PROXIMITY OF BRANCH CONNECTION. NO UT45/UT60 FROM THE TUBE SHEET SIDE DUE TO TUBE SHEET CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-63**
304725	CSAHRG-2A-S7A TUBE SHEET TO TUBE SHEET	C-A --		SEE REMARKS			AS RECOMMENDED BY HL&P NO ASME SECTION XI ITEM NO. HAS BEEN ASSIGNED. THEREFORE, NO EXAMINATION IS REQUIRED PER ASME SECTION XI.
304750	CSAHRG-2A-S8 TUBE SHEET TO NOZZLE	C-B C2.21	PT UTOL UTOW UT45 UT45T UT60	200-1/69 600-45/2	X - - X - - X - - - X - X - - - X -		LIMITED UT45 FROM THE NOZZLE SIDE DUE TO PROXIMITY OF BRANCH CONNECTION. NO UT45 OR UT45T FROM THE TUBE SHEET SIDE DUE TO TUBE SHEET CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-64**

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REGENERATIVE HEAT EXCHANGER (FIGURE B-RGX-1)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	W	O	REMARKS
					E	G	
					R	E	
					E	O	
					C	M	**CALIBRATION BLOCK**
-----							

CIRCUMFERENTIAL WELDS

304775	CSAHRG-2A-S9	C-B	PT	200-1/69	X	-	LIMITED UT45 FROM THE SHELL SIDE DUE TO SHELL CONFIGURATION. SEE APPENDIX L OF THIS REPORT.
	REINFORCING COLLAR (NOZZLE) TO SHELL	C2.21	UT0L	600-45/2	X	-	
			UT0W		X	-	
			UT45		-	X	
			UT45T		X	-	**SS-61/SS-62**
			UT60		-	X	

304800	CSAHRG-2A-S10	C-B	PT	200-1/69	X	-	ONE UT0L CODE ALLOWABLE INDICATION. SEE CNF 067. LIMITED UT45 FROM THE SHELL SIDE DUE TO SHELL CONFIGURATION. LIMITED UT45T ON THE WELD DUE TO WELD CONFIGURATION. SEE APPENDIX L OF THIS REPORT.
	SHELL TO REINFORCING COLLAR (NOZZLE)	C2.21	UT0L	600-45/2	-	X	
			UT0W		X	-	
			UT45		-	X	
			UT45T		X	-	
			UT60		-	X	**SS-61/SS-62**

INTEGRAL ATTACHMENTS

304850	CSAHRG-2A-A1	C-C	PT	200-1/69	X	-	
	SUPPORT ATTACHMENT WELD	C3.10					
304900	CSAHRG-2A-A2	C-C	PT	200-1/69	X	-	
	SUPPORT ATTACHMENT WELD	C3.10					
304950	CSAHRG-2A-A3	C-C	PT	200-1/69	X	-	
	SUPPORT ATTACHMENT WELD	C3.10					
305000	CSAHRG-2A-A4	C-C	PT	200-1/69	X	-	
	SUPPORT ATTACHMENT WELD	C3.10					

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RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2A

SUMMARY EXAMINATION AREA		ASME			M	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

CIRCUMFERENTIAL WELDS (FIG NO B-RHX-1)

305400	RHAHRS-2A-S1	C-A	UT0L	600-45/2	X	-	-	
	HEAD TO SHELL	C1.20	UT0W		X	-	-	
			UT45		-	X	-	
			UT45T		-	X	-	
			UT60		-	X	-	**SS-65**

305450	RHAHRS-2A-S2	C-A	UT0L	600-45/2	X	-	-	
	SHELL TO FLANGE	C1.10	UT0W		X	-	-	
			UT45		-	X	-	
			UT45T		-	X	-	
			UT60		-	X	-	**SS-65**

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-RHX-1)

305500	RHAHRS-2A-NA	C-B	PT	200-1/69	X	-	-	NO UT45T ON THE WELD DUE TO WELD
	NOZZLE TO SHELL	C2.21	UT0L	600-45/2	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45		-	X	-	REPORT.
			UT45T		X	-	-	
								**SS-65/SS-66**

305550	RHAHRS-2A-WB	C-B	PT	200-1/69	X	-	-	NO UT45T ON WELD DUE TO WELD
	NOZZLE TO SHELL	C2.21	UT0L	600-45/2	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45		X	-	-	REPORT.
			UT45T		X	-	-	
								**SS-65/SS-66**

INTEGRAL ATTACHMENTS (FIG NO B-RHX-1)

305600	RHAHRS-2A-SK	C-C	PT	200-3/6	X	-	-	
	SUPPORT SKIRT	C3.10						

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RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2A

				W	O			
				O	G	T		
				R	E	H		
SUMMARY EXAMINATION AREA		CATGY	EXAM	E	O	E	REMARKS	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**

INTEGRAL ATTACHMENTS (FIG NO 3-RHX-1)

305700	RHAHRS-2A-NSR-NA NOZZLE STIFFENING RING	C-C C3.10	PT	SEE REMARKS				NO EXAMINATION REQUIRED IN ACCORDANCE WITH ASME CODE CASE N-343.
305750	RHAHRS-2A-NSR-NB NOZZLE STIFFENING RING	C-C C3.10	PT	SEE REMARKS				NO EXAMINATION REQUIRED IN ACCORDANCE WITH ASME CODE CASE N-343.

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RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2B

SUMMARY EXAMINATION AREA				N	O	REMARKS
ASME				O	G	
SEC. XI				R	E	
NUMBER	IDENTIFICATION	CATGY	EXAM	E	O	
ITFM NO METHOD PROCEDURE				C	M	R
-----				-	-	**CALIBRATION BLOCK**
-----				-	-	-----

CIRCUMFERENTIAL WELDS (FIG NO B-RHX-1)

306100	RHAHRS-2B-S1 HEAD TO SHELL	C-A C1.20	UT0L UT0W UT45 UT45T UT60	600-45/2	X - - X - - - X - - X - - X -	**SS-65**
306150	RHAHRS-2B-S2 SHELL TO FLANGE	C-A C1.10	UT0L UT0W UT45 UT45T UT60	600-45/2	X - - X - - - X - - X - - X -	**SS-65**

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-RHX-1)

306200	RHAHRS-2B-NA NOZZLE TO SHELL	C-B C2.21	PT UT0L UT45 UT45T UT60	200-1/69 600-45/2	X - - X - - - X - X - - - X -	NO UT45T ON WELD DUE TO WELD CONFIGURATION. SEE APPENDIX I OF THIS REPORT.  **SS-65/SS-66**
306250	RHAHRS-2B-NB NOZZLE TO SHELL	C-B C2.21	PT UT0L UT45 UT45T	200-1/69 600-45/2	X - - X - - - X - X - -	TWO UT45 CODE ALLOWABLE INDICATIONS. SEE CNF 070. NO UT45T ON WELD DUE TO WELD CONFIGURATION. SEE APPENDIX I OF THIS REPORT.  **SS-65/SS-66**

INTEGRAL ATTACHMENTS (FIG NO B-RHX-1)

306300	RHAHRS-2B-SK SUPPORT SKIRT	C-C C3.10	PT	200-3/6	X - -	
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RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2B

				N	O			
				O	G	T		
				R	E	H		
SUMMARY EXAMINATION AREA		CATGY	EXAM	E	O	E	REMARKS	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
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INTEGRAL ATTACHMENTS (FIG NO B-RHX-1)

306400	RHAHRS-2B-NSR-NA NOZZLE STIFFENING RING	C-C C3.10	PT	SEE REMARKS				NO EXAMINATION REQUIRED IN ACCORDANCE WITH ASME CODE CASE N-343.
306450	RHAHRS-2B-NSR-NB NOZZLE STIFFENING RING	C-C C3.10	PT	SEE REMARKS				NO EXAMINATION REQUIRED IN ACCORDANCE WITH ASME CODE CASE N-343.



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RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2C

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**

CIRCUMFERENTIAL WELDS (FIG NO B-RHX-1)

306800	RHAHRS-2C-S1	C-A	UTOL	600-45/2	X	-	-	
	HEAD TO SHELL	C1.20	UTOW		X	-	-	
			UT45		-	X	-	
			UT45T		-	X	-	
			UT60		-	X	-	**SS-65**
306850	RHAHRS-2C-S2	C-A	UTOL	600-45/2	X	-	-	
	SHELL TO FLANGE	C1.10	UTOW		X	-	-	
			UT45		-	X	-	
			UT45T		-	X	-	
			UT60		-	X	-	**SS-65**

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-RHX-1)

306900	RHAHRS-2C-NA	C-B	PT	200-1/69	X	-	-	ONE UT45 CODE ALLOWABLE INDICATION. SEE
	NOZZLE TO SHELL	C2.21	UTOL	600-45/2	X	-	-	CNF 070. NO UT45T ON WELD DUE TO WELD
			UT45		-	-	X	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45T		X	-	-	REPORT.
								**SS-65/SS-66**
306950	RHAHRS-2C-NB	C-B	PT	200-1/69	X	-	-	NO UT45T ON WELD DUE TO WELD
	NOZZLE TO SHELL	C2.21	UTOL	600-45/2	X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45		-	X	-	REPORT.
			UT45T		X	-	-	
								**SS-65/SS-66**

INTEGRAL ATTACHMENTS (FIG NO B-RHX-1)

307000	RHAHRS-2C-SK	C-C	PT	200-3/6	X	-	-	
	SUPPORT SKIRT	C3.10						

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RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2C

				N	O			
				O	G	T		
				R	E	H		
SUMMARY EXAMINATION AREA		CATGY	EXAM	E	O	E	REMARKS	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
-----								-----

INTEGRAL ATTACHMENTS (FIG NO B-RHX-1)

307010	RHAHRS-2C-NSR-NA NOZZLE STIFFENING RING	C-C C3.10	PT	JEE REMARKS				NO EXAMINATION REQUIRED IN ACCORDANCE WITH ASME CODE CASE N-343.
307020	RHAHRS-2C-NSR-NB NOZZLE STIFFENING RING	C-C C3.10	PT	SEE REMARKS				NO EXAMINATION REQUIRED IN ACCORDANCE WITH ASME CODE CASE N-343.

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LETDOWN HEAT EXCHANGER (FIGURE B-LDX-1)

SUMMARY EXAMINATION AREA	ASME				N	O	
NUMBER IDENTIFICATION	SEC. XI	CATGY	EXAM	PROCEDURE	E	G	T
	ITEM NO	METHOD			R	E	H
					E	O	E
					C	M	R
.....	.....	.....	.....	.....	-	-	-
							REMARKS
							**CALIBRATION BLOCK**

CIRCUMFERENTIAL WELDS

307700 CSAHLD-2A-S1 C-A RT SEE REMARKS SHOP RADIOGRAPHS USED FOR BASELINE.  
(HEAD) SHELL TO FLANGE C1.10

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EXCESS LETDOWN HEAT EXCHANGER (FIGURE B-ELDX-1)

				W	O		
				O	G	T	
				E	H		
SUMMARY EXAMINATION AREA		CATGY	EXAM	E	O	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R
-----							
**CALIBRATION BLOCK**							
-----							

CIRCUMFERENTIAL WELDS

308300	CSAHEL-2A-S1	C-A	UTOL	600-45/2	X	-	-	LIMITED UT45/UT60 FROM THE HEAD SIDE DUE
	(HEAD) SHELL TO FLANGE	C1.10	UTOW		X	-	-	TO HEAD CONFIGURATION. NO UT45/UT60 OR
			UT45		X	-	-	UT45T FROM THE FLANGE SIDE DUE TO
			UT45T		X	-	-	PROXIMITY OF FLANGE BOLTING. SEE
			UT60		X	-	-	APPENDIX L OF THIS REPORT.
								**SS-67**





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SEAL WATER INJECTION FILTER 2A (FIGURE B-SWF-1)

				N	O		
				O	G	T	
				R	E	H	
SUMMARY EXAMINATION AREA		CATGY	EXAM	E	O	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R
-----							
					-	-	**CALIBRATION BLOCK**
-----							

CIRCUMFERENTIAL WELDS

310000	CSFL61-2A-S1	C-A	UT9L	600-45/2	X	-	-	NO UT45T ON THE HEAD SIDE DUE TO HEAD
	HEAD TO SHELL	C1.20	UT0W		X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45		X	-	-	REPORT.
			UT45T		X	-	-	
			UT60		X	-	-	**SS-6**

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SEAL WATER INJECTION FILTER 2B (FIGURE B-SWF-1)

				N	O		
				O	G	T	
				R	E	H	
SUMMARY EXAMINATION AREA		CATGY	EXAM	E	O	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R
-----							
							**CALIBRATION BLOCK**
-----							

CIRCUMFERENTIAL WELDS

310600	CSFLS1-2B-S1	C-A	UT0L	600-45/2	X	-	-	NO UT45T ON THE HEAD SIDE DUE TO HEAD
	HEAD TO SHELL	C1.20	UT0W		X	-	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45		X	-	-	REPORT.
			UT45T		X	-	-	
			UT60		X	-	-	**SS-6**



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PULSATON DAMPENER 2A (FIGURE B-PUD-1)

				N	O		
				O	G	T	
				R	E	H	
				E	O	E	REMARKS
SUMMARY EXAMINATION AREA	CATGY	EXAM		E	O	E	
NUMBER IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
.....							

CIRCUMFERENTIAL WELDS

320100	S1	C-A	UTOL	600-45/2	X	-	-	LIMITED UT45/UT60 FROM BOTH SIDES DUE TO
	SHELL TO SHELL	C1.20	UTOW		X	-	-	PROXIMITY OF SUPPORT BRACKETS. SEE
			UT45		-	X	-	APPENDIX L OF THIS REPORT.
			UT45T		X	-	-	
			UT60		X	-	-	**SS-61**



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SUMMARY NUMBER	EXAMINATION IDENTIFICATION	ASME SEL, XI CATGY	EXAM METHOD	PROCEDURE	N O		REMARKS
					O G T	R E H	
		ITEM NO			E O E	C M R	**CALIBRATION BLOCK**
<u>B-AF-2006-GA2(C) (FIG NO B-AF-1)</u>							
350130	8 PIPE TO PIPE (B-SW0002)	C-F 5.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350140	9 PIPE TO PIPE (FW0015)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350160	10 PIPE TO ELBOW (FS5456)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350180	11 ELBOW TO PIPE (FW0016)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350200	12 PIPE TO ELBOW (E-SW0002)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350220	13 ELBOW TO PIPE (E-SW0003)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350240	14 PIPE TO ELBOW (E-SW0004)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	M	O	REMARKS
					E	R	
					C	M	**CALIBRATION BLOCK**

B-AF-2006-GA2(C) (FIG NO B-AF-1)

350260	15 ELBOW TO PIPE (FW0004)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350280	16 PIPE TO PIPE (F-SW003)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350300	17 PIPE TO PIPE (F-SW002)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350320	18 PIPE TO ELBOW (FW4297)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350330	19 ELBOW TO PIPE (FW0005)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350335	19A PIPE TO PIPE (FW8492)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350340	20 PIPE TO PIPE (FW0017)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY EXAM	PROCEDURE	O	G	T
		ITEM NO	METHOD		R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-	-	-
<u>B-AF-2006-GA2(C) (FIG NO B-AF-1)</u>							
350350	20PL1-20PL8 PIPE LUGS	C-E C3.20	MT	300-1/33	X	-	-
350360	21 PIPE TO VALVE (FW0006)	C-F C5.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350380	22 VALVE TO PIPE (FW0043)	C-F C5.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350400	23 PIPE TO ELBOW (FW0044)	C-F C5.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350420	24 ELBOW TO PIPE	C-F C5.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
350430	24PL1-24PL4 PIPE LUGS	C-E C3.20	MT	300-1/33	X	-	-
350440	25 PIPE TO PIPE (FW0018)	C-F C5.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			E	O
		ITEM NO	METHOD	PROCEDURE	C	M	R	
REMARKS								
**CALIBRATION BLOCK**								
<u>B-AF-2006-GA2(C) (FIG NO B-AF-1)</u>								
350445	26 PIPE TO ELBOW	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
350450	27 ELBOW TO PIPE	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
350455	28 PIPE TO REDUCER	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
<u>B-AF-2005-GA2(G) (FIG NO B-AF-2)</u>								
351000	1 REDUCER TO PIPE	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
351020	2 PIPE TO REDUCER	C-F CS.11	MT	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - OPTIONAL WB3 BASELINE.
				UT45	-	X	-	
				UT45T	X	-	-	**CS-2**
<u>B-AF-2008-GA2(C) (FIG NO B-AF-3)</u>								
351520	1 REDUCER TO PIPE (CA-SW0002)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M	O	REMARKS
					E	E	
					C	M	**CALIBRATION BLOCK**
-----							
<u>B-AF-2008-GA2(C) (FIG NO B-AF-3)</u>							
351540 2 PIPE TO ELBOW	C-F C5.11	NT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
351560 3 ELBOW TO PIPE	C-F C5.11	NT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
351580 4 PIPE TO ELBOW	C-F C5.11	NT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
351600 5 ELBOW TO PIPE	C-F C5.11	NT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
351620 6 PIPE TO ELBOW	C-F C5.11	NT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
351640 7 ELBOW TO PIPE (FW0016)	C-F C5.11	NT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
351660 8 PIPE TO PIPE (CB-SW0002)	C-F C5.11	NT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M O			REMARKS
					E	O	R	
					C	M	R	**CALIBRATION BLOCK**
<u>B-AF-2008-GA2(C) (FIG NO B-AF-3)</u>								
351680 9 PIPE TO PIPE (FW0002)	C-F C5.11	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
351700 10 PIPE TO PIPE (D-SW0002)	C-F C5.11	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
351720 11 PIPE TO ELBOW (D-SW0003)	C-F C5.11	MT		300-1/33	X	-	-	
351740 12 ELBOW TO PIPE (FW0003)	C-F C5.11	MT		300-1/33 600-41/14 UT45 UT45T	X	-	-	AUGMENTED PSI - OPTIONAL W83 BASELINE.  **CS-2**
351760 13 PIPE TO ELBOW (FW0004)	C-F C5.11	MT		300-1/33	X	-	-	
351780 14 ELBOW TO PIPE (FW5178)	C-F C5.11	MT		300-1/33	X	-	-	
351800 15 PIPE TO PIPE (FW0017)	C-F C5.11	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.



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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM		O	G	
			ITEM NO	METHOD	PROCEDURE		T	
						R	E	
						H		
						E	O	
						E	REMARKS	
						C	M	
						R	**CALIBRATION BLOCK**	
<u>B-AF-2008-6-2(C) (FIG NO B-AF-3)</u>								
351810	15PL1-15PLB PIPE LUGS	C-E	MT	300-1/33		-	X	ONE LINEAR MT INDICATION WAS RECORDED ON LUGS 15PL4 AND 15PL8. SEE CNF 090. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS.
		C3.20				X	-	
351820	16 PIPE TO ELBOW (FS8313)	C-F	MT	300-1/33				NOT SELECTED FOR EXAMINATION.
		C5.11						
351840	17 ELBOW TO PIPE	C-F	MT	300-1/33		-	X	SEVERAL LINEAR MT INDICATIONS. SEE CNF 101. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS.
		C5.11				X	-	
351860	18 PIPE TO VALVE (FW0019)	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
351880	19 VALVE TO PIPE (FW0020)	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
351900	20 PIPE TO ELBOW	C-F	MT	SFE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
351920	21 ELBOW TO PIPE	C-F	MT	300-1/33		-	X	SEVERAL LINEAR MT INDICATIONS. SEE CNF 101. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS.
		C5.11				X	-	

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O O G T R E H E O E		REMARKS
					C M R	**CALIBRATION BLOCK**	

B-AF-2008-GA2(C) (FIG NO B-AF-3)

351940	22	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	PIPE TO REDUCER (FW10185)	C5.11					

B-AF-2008-GA2(G) (FIG NO B-AF-4)

352440	1	C-F	MT	300-1/33	X - -		AUGMENTED PSI - OPTIONAL W83 BASELINE.
	REDUCER TO PIPE	C5.11	UTOL	600-41/14	X - -		
			UT45		X - -		
			UT45T		X - -		**CS-2**

352460	2	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	PIPE TO REDUCER	C5.11					

B-AF-2010-GA2(C) (FIG NO B-AF-5)

352960	1	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	REDUCER TO PIPE (CA-SW0002)	C5.11					

352980	2	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW (CA-SW0003)	C5.11					

353000	3	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	ELBOW TO PIPE (CA-SW0004)	C5.11					

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SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	REMARKS	N O	
						E O E	C M R
.....						*	*
<u>B-AF-2010-GA2(C) (FIG NO B-AF-5)</u>							
353020	4 PIPE TO ELBOW (CA-SW0005)	C-F CS.11	MT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
353040	5 ELBOW TO PIPE (CA-SW0006)	C-F CS.11	MT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
353060	6 PIPE TO ELBOW (CA-SW0007)	C-F CS.11	MT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
353080	7 ELBOW TO PIPE (FW0015)	C-F CS.11	MT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
353100	8 PIPE TO PIPE (CB-SW0002)	C-F CS.11	MT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
353120	9 PIPE TO PIPE (FW0002)	C-F CS.11	MT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
353140	10 PIPE TO PIPE (D-SW0002)	C-F CS.11	MT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		



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SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS
-----								
<u>B-AF-2010-GA2(C) (FIG NO B-AF-5)</u>								
353320	18 ELBOW TO PIPE (FW0020)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
353330	18PL1-18PL8 PIPE LUGS	C-E C3.20	MT	300-1/33	X	-	-	
353340	19 PIPE TO PIPE (FW0021)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
353360	20 PIPE TO ELBOW (J-SW0002)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
353380	21 ELBOW TO PIPE (J-SW0003)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
353400	22 PIPE TO VALVE (FW0022)	C-F C5.11	MT	300-1/33	X	-	-	
353420	23 VALVE TO PIPE (FW0023)	C-F C5.11	MT	300-1/33	X	-	-	

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	N	REMARKS
					E	O	E	**CALIBRATION BLOCK**
					C	M	R	
-----								
<u>B-AF-2010-GA2(C) (FIG NO B-AF-5)</u>								
353440	24 PIPE TO ELBOW (K-SW0003)	C-F C5.11	MT	300-1/33	X	-	-	
353440	25 ELBOW TO PIPE (K-SW0002)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
353470	25PL1-25PL8 PIPE LUGS	C-E C3.30	MT	300-1/33	X	-	-	
353480	26 PIPE TO ELBOW (FW0024)	C-F C5.11	MT	300-1/33				NOT SELECTED FOR EXAMINATION.
353500	27 ELBOW TO PIPE (L-SW0006)	C-F C5.11	MT	300-1/33	X	-	-	
353510	27A PIPE TO PIPE	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
353520	28 PIPE TO REDUCER (FW10183)	C-F C5.11	MT UT0L UT45 UT45T	300-1/33 600-41/14	X X - X	- - X -	- - - -	AUGMENTED PSI - OPTIONAL W83 BASELINE.  **CS-2**

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					C	M	R	
								**CALIBRATION BLOCK**

B-AF-2010-GA2[G] (FIG NO B-AF-6)

354020	1 REDUCER TO PIPE (Pa-7136)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354040	2 PIPE TO REDUCER	C-F C5.11	MT	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - OPTIONAL W83 BASELINE.
			UT0L UT45 UT45T		X	-	-	**CS-2**

B-AF-2012-GA2[C] (FIG NO B-AF-7)

354540	1 REDUCER TO PIPE (CA-SW0002)	C-F C5.11	MT	300-1/33	X	-	-	
354560	2 PIPE TO ELBOW (CA-SW0003)	C-F C5.11	MT	300-1/33	X	-	-	
354580	3 ELBOW TO PIPE (CA-SW0004)	C-F C5.11	MT	300-1/33	X	-	-	
354600	4 PIPE TO ELBOW (CA-SW0005)	C-F C5.11	MT	300-1/33	X	-	-	
354620	5 ELBOW TO PIPE (CA-SW0006)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N	O	REMARKS
					O	G	
					E	O	E
					C	M	R
-----							
<u>B-AF-2012-GA2(C) (FIG NO B-AF-7)</u>							
354640 6 PIPE TO ELBOW (CA-SW0007)	C-F C5.11	MT	SEE R2MARKS				NOT SELECTED FOR EXAMINATION.
354660 7 ELBOW TO PIPE (FW0018)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354680 8 PIPE TO PIPE (FW0002)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354700 9 PIPE TO PIPE (D-SW0002)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354720 10 PIPE TO ELBOW (FW0003)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354740 11 ELBOW TO PIPE (E-SW0002)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354760 12 PIPE TO ELBOW (FW0004)	C-F C5.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.



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SUMMARY NUMBER	EXAMINATION IDENTIFICATION AREA	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O			REMARKS
					E O E	C M R	**CALIBRATION BLOCK**	
-----								
<u>8-AF-2012-GA2(C) (FIG NO 8-AF-7)</u>								
354780	13 ELBOW TO PIPE (F-SW0002)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354800	14 PIPE TO ELBOW (F-SW0003)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354820	15 ELBOW TO PIPE (F-SW0004)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354840	16 PIPE TO ELBOW (F-SW0005)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354860	17 ELBOW TO PIPE (FW0005)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354880	18 PIPE TO PIPE (FW0019)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354900	19 PIPE TO ELBOW	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	C	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
.....		.....		.....	-	-	-	.....
<u>B-AF-2012-GA2(C) (FIG NO B-AF-7)</u>								
354920	20 ELBOW TO PIPE (FW0006)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354930	20PL1-27PL8 PIPE LUGS	C-E CS.20	MT	300-1/33	-	-	X	ONE LINEAR MT INDICATION WAS RECORDED ON LUG 20PL5. SEE CNF 091. REEXAMINATION REVEALED NO RECORDABLE INDICATION.
354940	21 PIPE TO PIPE (FW0021)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354960	22 PIPE TO ELBOW (J-SW0002)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
354980	23 ELBOW TO PIPE (J-SW0003)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
355000	24 PIPE TO VALVE (FW0022)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
355020	25 VALVE TO PIPE (FW0023)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME	EXAM	PROCEDURE	M	O	REMARKS
NUMBER	IDENTIFICATION	SEC. XI	METHOD		O	G	
		CATGY			R	E	
		ITEM NO			E	O	
					C	M	**CALIBRATION BLOCK**
					-	-	
<u>B-AF-2012-GA2(C) (FIG. NO B-AF-7)</u>							
355030	25PL1-25PL8 PIPE LUGS	C-E C3.20	MT	300-1/33	X	-	
355040	26 PIPE TO ELBOW (K-SW0007)	L-F C5.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
355060	27 ELBOW TO PIPE (K-SW0006)	C-F C5.11	MT	300-1/33 UT0L 600-41/14 UT45 UT45T	X	-	AUGMENTED PSI - OPTIONAL W83 BASELINE.  **CS-2**
355065	27PL1-27PL8 PIPE LUGS	C-E C3.20	MT	300-1/33	X	-	
355070	28 PIPE TO PIPE (FW10184)	C-F C5.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
355080	29 PIPE TO ELBOW (K-SW0005)	C-F C5.11	MT	300-1/33	X	-	
355090	30 ELBOW TO PIPE (K-SW0004)	C-F C5.11	MT	300-1/33	X	-	

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	EXAM METHOD	PROCEDURE	N O O G T P E H E O E C M R			REMARKS **CALIBRATION BLOCK**
				X	-	-	

B-AF-2012-GA2(C) (FIG NO B-AF-7)

355100 31	C-F	MT	300-1/33	X	-	-	
PIPE TO REDUCER (K-SW003)	C5.11						

B-AF-2012-GA2(G) (FIG NO B-AF-8)

355190 1	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - OPTIONAL W83 BASELINE.
REDUCER TO PIPE	C5.11	UT0L	600-41/14	X	-	-	
		UT45		X	-	-	
		UT45T		X	-	-	**CS-2**

355620 2	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
PIPE TO REDUCER	C5.11						

B(6)-AF-2006-GA2 (FIG NO B-AF-1)

356120 1	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
REDUCER TO PIPE	C5.11						

356140 2	C-F	MT	300-1/33	X	-	-	
PIPE TO NOZZLE (FW008)	C5.11	UT0L	600-41/14	X	-	-	
		UT45		X	-	-	
		UT45T		X	-	-	**CS-73**

B(6)-AF-2008-GA2 (FIG NO B-AF-3)

356640 1	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
REDUCER TO ELBOW	C5.11	UT					

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
.....		.....	.....	.....	C	M	R	.....

B(6)-AF-2008-GA2 (FIG NO B-AF-3)

356660 2 C-F MT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 ELBOW TO PIPE CS.11 UT

356680 3 C-F MT 300-1/33 X - -  
 PIPE TO NOZZLE CS.11 UTDL 600-41/14 X - -  
 (FW0008) UT'S X - -  
 UT45T X - -  
 \*\*CS-73\*\*

B(6)-AF-2010-GA2 (FIG NO B-AF-5)

357180 1 C-F MT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 REDUCER TO PIPE CS.11 UT  
 (L-SW0004)

357200 2 C-F MT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO ELBOW CS.11 UT  
 (L-SW0003)

357220 3 C-F MT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 ELBOW TO PIPE CS.11 UT  
 (L-SW0002)

357240 4 C-F MT 300-1/33 X - -  
 PIPE TO NOZZLE CS.11 UTDL 600-41/14 X - -  
 (FW0025) UT45 - X -  
 UT45T X - -  
 \*\*CS-73\*\*

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SUMMARY EXAMINATION ARJA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M O T			REMARKS
					E	O	T	
					C	M	R	**CALIBRATION BLOCK**
-----								

8(6)-AF-2012-GA2 (FIG NO B-AF-7)

357740 1	C-F	NT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
REDUCER TO PIPE (L-SW0002)	CS.11	UT						
357760 2	C-F	NT		300-1/33	X	-	-	
PIPE TO NOZZLE (PW0010)	CS.11	UTOL		600-41/14	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**CS-73**

6-AF-2006-GA2 (FIG NO B-AF-1, 2)

358260 1	C-F	NT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
REDUCER TO PIPE	CS.11							
358280 2	C-F	NT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
PIPE TO ELBOW	CS.11							
358300 3	C-F	NT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
ELBOW TO PIPE	CS.11							
358320 4	C-F	NT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
PIPE TO ELBOW	CS.11							
358340 5	C-F	NT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
ELBOW TO PIPE	CS.11							

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	**CALIBRATION BLOCK**
					C	M	R	
					-	-	-	
<u>6-AF-2006-GA2 (FIG NO B-AF-1, 2)</u>								
358360	6 PIPE TO PIPE (FW0026)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
358380	7 PENETRATION TO PIPE (FW0001)	C-F CS.11	MT	300-1/33	X	-	-	
358400	8 PIPE TO REDUCER (FW0002)	C-F CS.11	MT	300-1/33	X	-	-	
<u>6-AF-2008-GA2 (FIG NO B-AF-3, 4)</u>								
359000	1 REDUCER TO PIPE	C-F CS.11	MT	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - OPTIONAL WBS BASELINE.
				UTOL	X	-	-	
				UT45	X	-	-	
				UT45T	X	-	-	**CS-1**
359020	2 PIPE TO ELBOW (F85461)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
359040	3 ELBOW TO PIPE	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
359060	4 PIPE TO ELBOW	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**
				-	-	-	
<u>8-AF-2008-GA2 (FIG NO 8-AF-3, 4)</u>							
359080 5 ELBOW TO PIPE	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
359100 6 PIPE TO PIPE (FW0027)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
359120 7 PENETRATION TO PIPE (FW0001)	C-F CS.11	MT	300-1/33	X	-	-	
359140 8 PIPE TO REDUCER (FW0015)	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
<u>8-AF-2010-GA2 (FIG NO 8-AF-3, 4)</u>							
359640 1 REDUCER TO PIPE	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
359660 2 PIPE TO ELBOW	C-F CS.11	MT UTOL UT45 UT45T	300-1/33 600-41/14	X X - X X	- - - -	- - - -	AUGMENTED PSI - OPTIONAL WBS BASELINE.    **CS-1**
359680 3 ELBOW TO PIPE	C-F CS.11	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.



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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>6-AF-2010-GA2 (FIG NO 8-AF-5, 6)</u>							
359700	4 PIPE TO ELBOW	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
359720	5 ELBOW TO PIPE	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
359740	6 PIPE TO PIPE	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
359760	7 PENETRATION TO PIPE (FW0001)	C-F CS.11	MT	300-1/33	X	-	
359780	8 PIPE TO REDUCER (FW0014)	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
<u>6-AF-2012-GA2 (FIG NO 8-AF-7, 8)</u>							
360280	1 REDUCER TO PIPE	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
360300	2 PIPE TO ELBOW	C-F CS.11	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			W	O	
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM		O	G
		ITEM NO	METHOD	PROCEDURE		R	E
						H	
						E	O
						E	REMARKS
						C	M
						R	**CALIBRATION BLOCK**
						-	-
<u>6-AF-2012-GA2 (FIG. NO. 8-AF-7, B)</u>							
360320	3 ELBOW TO PIPE	C-F CS.11	WT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
360340	4 PIPE TO ELBOW	C-F CS.11	WT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
360360	5 ELBOW TO PIPE	C-F CS.11	WT	300-1/33 UT0L 600-41/14 UT45 UT45T	X	-	AUGMENTED PSI - OPTIONAL WB3 BASELINE.
					X	-	
					-	X	
					X	-	**CS-1**
360380	6 PIPE TO PIPE (FW0027)	C-F CS.11	WT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
360400	7 PENETRATION TO PIPE (FW0001)	C-F CS.11	WT	300-1/33	X	-	
360420	8 PIPE TO REDUCER (FW0017)	C-F CS.11	WT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>12-CS-2101-UB2 (FIG. NO. B-CS-1)</u>								
400000	1 BRANCH CONNECTION TO PIPE (FW0001)	C-F CS.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
					X	-	-	
					-	X	-	
					X	-	-	**SS-12**
400020	1LD LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	AUGMENTED PSI.
					X	-	-	
					X	-	-	
					X	-	-	**CS-12**
400025	1ALU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
400030	1A PIPE TO PIPE (FW5883)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
400035	1ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
400040	2LU LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	AUGMENTED PSI.
					X	-	-	
					X	-	-	
					X	-	-	**SS-12**

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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBR	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----		-----	-	-	-	-----
<u>12-CS-2101-UB2 (FIG NO B-CS-1)</u>								
400060	2	C-F	PT	200-1/69	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE. ONE
	PIPE TO ELBOW	CS.11	UTOL	800-36/37	-	-	X	UTOL CODE ALLOWABLE INDICATION. SEE CNF
	(A-SW0002)		UT45		-	X	-	060.
			UT45T		X	-	-	**SS-12**
400080	2LD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	CS.12	UTOL	800-36/37	-	-	X	PSI. ONE UTOL CODE ALLOWABLE
			UT45		X	-	-	INDICATION. SEE CNF 063.
			UT45T		X	-	-	
			UT60		X	-	-	**SS-12**
400120	3LU	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	CS.12	UTOL	800-36/37	X	-	-	PSI.
			UT45		X	-	-	
			UT45T		X	-	-	**SS-12**
400160	3	C-F	PT	200-1/69	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE. ONE
	ELBOW TO PIPE	CS.11	UTOL	800-36/37	-	-	X	UTOL CODE ALLOWABLE INDICATION. SEE CNF
	(A-SW0003)		UT45		-	X	-	064.
			UT45T		X	-	-	
			UT60		X	-	-	**SS-12**
400180	3LD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	CS.12	UTOL	800-36/37	X	-	-	PSI.
			UT45		X	-	-	
			UT45T		X	-	-	**SS-12**

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SUMMARY EXAMINATION AREA		ASME			W	O
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G
			ITEM NO	METHOD	PROCEDURE	R
						E
						H
						E
						O
						E
						R
						**CALIBRATION BLOCK**
<u>12-CS-2101-WB2 (FIG NO B-CS-1)</u>						
400200	4LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
400220	4 PIPE TO ELBOW (A-SW0004)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
400240	4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
400280	5LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
400320	5 ELBOW TO PIPE (A-SW0005)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
400340	5LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
400360	6LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REH
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>12-C8-2101-UB2 (FIG NO 8-C8-1)</u>								
400380	6 PIPE TO ELBOW (A-SW0006)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
400400	6LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
400440	7LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
400480	7 ELBOW TO PIPE (A-SW0007)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
400500	7LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
400520	8LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
400540	8 PIPE TO FLANGE (A-SW0008)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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			-	-	-	

12-CS-2101-UB2 (FIG NO B-CS-1)

400560 9 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 FLANGE TO PIPE CS.11  
 (B-SW0002)

400580 9LD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

400600 10LU C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

400620 10 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO FLANGE CS.11  
 (B-SW0003)

12-CS-2201-UB2 (FIG NO B-CS-2)

401120 1 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 BRANCH CONNECTION TO PIPE CS.11  
 (FW0001)

401140 1LD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

401145 1ALU C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T
			ITEM NO	METHOD	R E H
				PROCEDURE	E O E
					C M R
					REMARKS
					**CALIBRATION BLOCK**
.....					
<u>12-CS-2201-UB2 (FIG NO B-CS-2)</u>					
401150	1A PIPE TO PIPE (FW8854)	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		CS.11			
401155	1ALD LONGITUDINAL WELD	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		CS.12			
401160	2LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		CS.12			
401180	2 PIPE TO ELBOW (A-SW0002)	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		CS.11			
401200	2LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		CS.12			
401240	3LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		CS.12			
401280	3 ELBOW TO PIPE (FS8813)	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		CS.11			





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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
-----								
12-CS-2201-UB2 (FIG NO B-CS-2)								
401460	5LD LONGITUDINAL WELD	C-F CS.12	PT UT0L UT4S UT45T	200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.
					-	X	-	**SS-12**
401480	6LU LONGITUDINAL WELD	C-F CS.12	PT UT0L UT4S UT45T	200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.
					X	-	-	**SS-12**
401500	6 PIPE TO ELBOW (A-SW0006)	C-F CS.11	PT UT0L UT4S UT45T	200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
					-	X	-	**SS-12**
401520	6LD LONGITUDINAL WELD	C-F CS.12	PT UT0L UT4S UT45T	200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.
					X	-	-	**SS-12**
401560	7LU LONGITUDINAL WELD	C-F CS.12	PT UT0L UT4S UT45T	200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.
					X	-	-	**SS-12**

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		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
-----		-----		-----	C	M	R	**CALIBRATION BLOCK**
-----		-----		-----	-	-	-	-----
<u>12-CS-2201-UB2 (FIG NO B-CS-2)</u>								
401600	7	C-F	PT	200-1/69	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
	ELBOW TO PIPE	C5.11	UT0L	800-36/37	X	-	-	
	(A-SW0007)		UT45		X	-	-	
			UT45T		X	-	-	
								**SS-12**
401620	7LD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	C5.12	UT0L	800-36/37	X	-	-	PSI.
			UT45		X	-	-	
			UT45T		X	-	-	
								**SS-12**
401640	8LU	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12						
401660	8	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	PIPE TO FLANGE	C5.11						
	(A-SW0008)							
401680	9	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	FLANGE TO PIPE	C5.11						
	(B-SW0002)							
401700	9LD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12						
401720	10LU	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12						

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REMARKS
			ITEM NO	METHOD	PROCEDURE	E	O	E
						C	M	R

12-CS-2201-UB2 (FIG NO B-CS-2)

401740	10 PIPE TO FLANGE (B-SW0003)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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12-CS-2201-UB2 (FIG NO B-CS-4)

402240	1 BRANCH CONNECTION TO PIPE (FW0001)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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402260	1LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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402280	2LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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402300	2 PIPE TO ELBOW (A-SW0002)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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402320	2LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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402360	3LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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						E O E	C M R
-----							
<u>12-CS-2301-UB2 (FIG NO B-CS-4)</u>							
402400 3 ELBOW TO PIPE (A-SW0003)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.		
402420 3LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.		
402440 4LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.		
402460 4 PIPE TO ELBOW (A-SW0004)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.		
402480 4LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.		
402520 5LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.		
402560 5 ELBOW TO PIPE (A-SW0005)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.		

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>12-CS-2301-U82 (FIG NO B-CS-4)</u>							
402580	5LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
402600	6LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
402620	6 PIPE TO ELBOW (A-SW0006)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
402640	6LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
402680	7LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
402720	7 ELBOW TO PIPE (A-SW0007)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
402740	7LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	METHOD	PROCEDURE	C		M
-----								
<u>12-CS-2301-UB2 (FIG NO B-CS-4)</u>								
402760	8LU LONGITUDINAL WELD	C-F	PT	200-1/69	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED
		C5.12	UT0L	800-36/37	800-36/37	X	-	PSI.
			UT45			X	-	
			UT45T			X	-	**SS-12**
402780	8 PIPE TO FLANGE (A-SW0008)	C-F	PT	200-1/69	200-1/69	X	-	AUGMENTED PSI - VOLUMETRIC SAMPLE. NO
		C5.11	UT0L	800-36/37	800-36/37	X	-	UT45T ON THE FLANGE SIDE DUE TO FLANGE
			UT45			X	-	CONFIGURATION. SEE APPENDIX L OF THIS
			UT45T			X	-	REPORT. **SS-12**
402800	9 FLANGE TO PIPE (B-SW0002)	C-F	PT	200-1/69	200-1/69	X	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
		C5.11	UT0L	800-36/37	800-36/37	X	-	
			UT45			X	-	
			UT45T			X	-	**SS-12**
402820	9LD LONGITUDINAL WELD	C-F	PT	200-1/69	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED
		C5.12	UT0L	800-36/37	800-36/37	X	-	PSI.
			UT45			X	-	
			UT45T			X	-	**SS-12**
402830	10LU LONGITUDINAL WELD	C-F	PT	200-1/69	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED
		C5.12	UT0L	800-36/37	800-36/37	X	-	PSI.
			UT45			X	-	
			UT45T			X	-	**SS-12**

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
<u>12-CS-2301-UB2 (FIG NO B-CS-4)</u>								
402840	10	C-F	PT	200-1/69	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
	PIPE TO FLANGE	C5.11	UTOL	800-36/37	X	-	-	
	(B-SW0003)		UT45		X	-	-	
			UT45T		X	-	-	**SS-12**
<u>10-CS-2102-PB2 (FIG NO B-CS-5)</u>								
403340	1	C-F	PT	200-1/69	X	-	-	
	FLANGE TO REDUCER	C5.11						
	(A-SW0002)							
403350	1LD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.12						
<u>10-CS-2202-PB2 (FIG NO B-CS-3)</u>								
403840	1	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	FLANGE TO REDUCER	C5.11						
	(A-SW0002)							
403850	1LD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12						
<u>10-CS-2302-PB2 (FIG NO B-CS-6)</u>								
404340	1	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	FLANGE TO REDUCER	C5.11						
	(A-SW0002)							



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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	U	G	T	REMARKS
-----		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
-----					C	M	R	-----

10-CS-2302-PB2 (FIG NO B-CS-6)

404350	1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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B-CS-2102-PB2 (FIG NO B-CS-5)

412160	1LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
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412170	1 REDUCER TO PIPE (A-SW0003)	C-F CS.11	PT	200-1/69	X	-	-	
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412172	1LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
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412174	2LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
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412180	2 PIPE TO FLANGE (A-SW0004)	C-F CS.11	PT	200-1/69	X	-	-	
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412190	3 FLANGE TO ELBOW (B-SW0002)	C-F CS.11	PT	200-1/69	X	-	-	
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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
-----								
<u>8-CS-2102-PB2 (FIG NO B-CS-5)</u>								
412200	3LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	
412220	4LU LONGITUDINAL WELD	C-F C5.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X	-	-	VOLUMETRIC EXAMINATION PER RELIEF REQUEST RR-ENG-01. EXAMINED 2.5T OF WELD LENGTH.  **SS-87**
412240	4 ELBOW TO PIPE (B-SW0003)	C-F C5.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X	-	-	VOLUMETRIC EXAMINATION PER RELIEF REQUEST RR-ENG-01.  **SS-87**
412250	4LD LONGITUDINAL WELD	C-F C5.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X	-	-	VOLUMETRIC EXAMINATION PER RELIEF REQUEST RR-ENG-01. EXAMINED 2.5T OF WELD LENGTH.  **SS-87**
412252	4ALU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
412254	4A PIPE TO PIPE (FW7452)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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					O	G	T	
					R	E	H	
					E	O	E	**CALIBRATION BLOCK**
-----					C	M	R	-----
<u>B-CS-2102-PB2 (FIG NO B-CS-5)</u>								
412256	4ALD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
412260	5LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
412300	5 PIPE TO ELBOW (B-SW0004)	C-F C5.11	PT	200-1/69	X	-	-	
412310	5LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
412330	6LU LONGITUDINAL WELD	C-F C5.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X X X X	- - - -	- - - -	VOLUMETRIC EXAMINATION PER RELIEF REQUEST RR-ENG-01. EXAMINED 2.5T OF WELD LENGTH.  **SS-87**
412350	6 ELBOW TO PIPE (FWOC01)	C-F C5.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X X - X	- - X -	- - - -	VOLUMETRIC EXAMINATION PER RELIEF REQUEST RR-ENG-01.  **SS-87**
412352	6LD LONGITUDINAL WELD	C-F C5.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X X X X	- - - -	- - - -	VOLUMETRIC EXAMINATION PER RELIEF REQUEST RR-ENG-01. EXAMINED 2.5T OF WELD LENGTH.  **SS-87**

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G
			ITEM NO	METHOD	PROCEDURE	REH
						E
						O
						E
						REMARKS
						**CALIBRATION BLOCK**
<u>B-CS-2102-PB2 (FIG NO B-CS-5)</u>						
412354	7LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
412360	7 PIPE TO FLANGE (C-SW0002)	C-F	MT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11	UT			
412370	8 FLANGE TO PIPE	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
412375	8LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
412385	9LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
412390	9 PIPE TO FLANGE (FW0070)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
412400	10 FLANGE TO PIPE	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				

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				O G T	R E H	E O E	
NUMBER	ITEM NO			C M R			**CALIBRATION BLOCK**
<u>B-CS-2102-PB2 (FIG NO B-CS-5)</u>							
412402	10LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412404	11LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412410	11 PIPE TO REDUCING TEE (FW8825)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412420	11LD-1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412430	11LD-2 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412440	12LU-1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412450	12LU-2 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
<u>B-CS-2107-PB2 (FIG NO B-CS-5)</u>							
412460	12 REDUCING TEE TO PIPE (FW0002)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412462	12LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412464	13LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412470	13 PIPE TO VALVE (FW0063)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412480	14 VALVE TO PIPE (FW0002A)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412485	14LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
412495	15LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N O	
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E O E	**CALIBRATION BLOCK**
					C M R	
<u>B-CS-2102-P82 (FIG NO B-CS-5)</u>						
412500	15 PIPE TO VALVE (FW0003)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
412510	16 VALVE TO PIPE (FW0004)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
412512	16LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
412514	17LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
412520	17 PIPE TO ELBOW (FW0005)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
412530	17LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
<u>B-CS-2202-P82 (FIG NO B-CS-3)</u>						
413460	1LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T		
		CATGY	EXAM			R	E	H	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E		
-----		-----		-----	C	M	R	**CALIBRATION BLOCK**	
-----		-----		-----	-	-	-	-----	
<u>B-CS-2202-P82 (FIG NO B-CS-3)</u>									
413480	1 REDUCER TO PIPE (A-SW0003)	C-F CS.11	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
413490	1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
413500	2LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
413510	2 PIPE TO FLANGE (A-SW0004)	C-F CS.11	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
413520	3 FLANGE TO ELBOW (B-SW0002)	C-F CS.11	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
413530	3LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
413550	4LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.



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	SEC. XI	ITEM NO			
	CA:G Y				
-----					
<u>B-CS-2202-PB2 (FIG NO B-CS-3)</u>					
413570 4 ELBOW TO PIPE (B-SW0003)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413580 4LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413590 5LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413600 5 PIPE TO ELBOW (B-SW0004)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413610 5LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413630 6LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413650 6 ELBOW TO PIPE (FW5408)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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		SEC. XI			U	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	P
							REMARKS
							**CALIBRATION BLOCK**
<u>B-CS-2202-P82 (FIG NO B-CS-3)</u>							
413660	6LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
413670	7LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
413680	7 PIPE TO FLANGE (C-SW0002)	C-F CS.11	PT	200-1/69	X	-	
413690	8 FLANGE TO PIPE (E-SW0002)	C-F CS.11	PT	200-1/69	X	-	
413700	8LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
413710	9LU LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X X X X	- - - -	VOLUMETRIC EXAMINATION PER RELIEF REQUEST RR-ENG-01. EXAMINED 2.5T OF WELD LENGTH.  **SC-87**
413720	9 PIPE TO FLANGE (FW0001A)	C-F CS.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X X X X	- - - -	VOLUMETRIC EXAMINATION PER RELIEF REQUEST RR-ENG-01.  **SS-87**

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				O U T	R E H	E O E	
	ITEM NO			C M R	**CALIBRATION BLOCK**		
<u>8-CS-2202-P82 (FIG NO 8-CS-3)</u>							
413750 10 FLANGE TO PIPE (D-SW0003)	C-F C5.11	PT	200-1/69	X - -			
413752 10LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X - -			EXAMINED 2.5T OF WELD LENGTH.
413754 11LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X - -			EXAMINED 2.5T OF WELD LENGTH.
413760 11 PIPE TO REDUCING TEE (FW00018)	C-F C5.11	PT	200-1/69	X - -			
413770 11LD-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X - -			EXAMINED 2.5T OF WELD LENGTH.
413775 11LD-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X - -			EXAMINED 3.5T OF WELD LENGTH.
413780 12LU-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X - -			EXAMINED 2.5T OF WELD LENGTH.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**
-----							
<u>B-CS-2202-PB2 (FIG NO B-CS-3)</u>							
413785	12LU-2 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
413790	12 REDUCING TEE TO PIPE (FW0049)	C-F CS.11	PT	200-1/69	-	X	FOUR LINEAR PT INDICATIONS. SEE CNF 062. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS.
413800	12LD LONGITUDINAL WELD	C-F CS.11	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
413810	13LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
413820	13 PIPE TO VALVE (FW0038)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
413870	14 VALVE TO PIPE (FW002A)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
413880	14LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CLTGY	EXAM	O G T	RE H
		ITEM NO	METHOD	PROCEDURE	E O E	REMARKS
-----						
<u>8-CS-2202-PB2 (FIG NO 8-CS-3)</u>						
413890	15LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413900	15 PIPE TO VALVE (FW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413930	16 VALVE TO PIPE (FW0004)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413932	16LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413934	17LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413940	17 PIPE TO ELBOW (FW0005)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
413950	17LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G
		CATGY	EXAM		R	E
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O
					E	R
					C	M
					R	
					-	-
					-	-
<u>8-CS-2302-PB2 (FIG NO B-CS-6)</u>						
414990	1LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415000	1 REDUCER TO PIPE (A-SW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415010	1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415020	2LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415030	2 PIPE TO FLANGE (A-SW0004)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415040	3 FLANGE TO ELBOW (B-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415050	3LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					-	-	-
<u>B-CS-2302-PB2 (FIG NO B-CS-6)</u>							
415070	4LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415090	4 ELBOW TO PIPE (8-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415100	4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415110	5LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415120	5 PIPE TO ELBOW (8-SW0004)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415130	5LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415150	6LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G
			ITEM NO	METHOD	PROCEDURE	RE
						H
						E
						O
						E
						RE
						M
						R
						**CALIBRATION BLOCK**
<u>8-CS-2302-PB2 (FIG NO 8-CS-6)</u>						
415170	6 ELBOW TO PIPE (FW0001)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
415180	6LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
415190	7LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
415200	7 PIPE TO FLANGE (C-SW0002)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
415210	8 FLANGE TO PIPE	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
415220	8LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
415222	7ALU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
<u>B-CS-2302-PB2 (FIG NO B-CS-6)</u>							
415224	8A PIPE TO PIPE (FW7434)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415226	8ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415230	9LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415240	9 PIPE TO FLANGE (FW0001A)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415250	10 FLANGE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415260	10LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
415270	11LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	PROCEDURE	REMARKS
		ITEM NO	METHOD			**CALIBRATION BLOCK**
<u>B-CS-2302-PB2 (FIG NO B-CS-6)</u>						
415280	11 PIPE TO REDUCING TEE (FW00018)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415290	11LD-1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415300	11LD-2 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415310	12LU-1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415320	12LU-2 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415330	12 REDUCING TEE TO PIPE (FW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
415340	12LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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SUMMARY NUMBER	EXAMINATION IDENTIFICATION AREA	ASME		EXAM METHOD	PROCEDURE	N O G R E H E O E			REMARKS
		SEC. XI	CATGY			C M R	E O E	E O E	
		ITEM NO							**CALIBRATION BLOCK**
<u>B-CS-2302-P82 (FIG NO B-CS-6)</u>									
415350	13LU LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
415360	13 PIPE TO VALVE (FW0054)	C-F C5.11	P1		200-1/69	X	-	-	
415370	14 VALVE TO PIPE (FW0050)	C-F C5.11	PT		200-1/69	X	-	-	
415380	14LD LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
415390	15LU LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
415400	15 PIPE TO ELBOW (F-SW0003)	C-F C5.11	PT		200-1/69	X	-	-	
415410	15LD LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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		SEC. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		
-----		-----		-----	-	-	-	-----	-----	
<u>B-CS-2302-PBZ (FIG NO B-CS-6)</u>										
415430	16LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-			
415450	16 ELBOW TO PIPE (F-SW0002)	C-F CS.11	PT	200-1/69	X	-	-			
415460	16LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-			
415470	17LU LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X X - X	- - X -	- - - -	VOLUMETRIC EXAMINATION PER RELIEF REQUEST RR-ENG-01. EXAMINED 2.5T OF WELD LENGTH.		
									**SS-87**	
415480	17 PIPE TO VALVE (FW0003)	C-F CS.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X X X X	- - - -	- - - -	VOLUMETRIC EXAMINATION PER RELIEF REQUEST RR-ENG-01. NO UT45T ON THE VALVE SIDE DUE TO VALVE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.		
									**SS-87**	
415490	18 VALVE TO PIPE (FW0004)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
415500	18LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.		

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NUMERICAL IDENTIFICATION		SEC. XI	CATGY	METHOD	UTOL	UT45	
			ITEM NO	PROCEDURE	C	M	R

8-CS-2302-PB2 (FIG NO 8-CS-6)

415510	19LU LONGITUDINAL WELD	C-F	PT	200-1/69	X	-	-	VOLUMETRIC EXAMINATION PER RELIEF
		C5.11	UTOL	800-36/37	X	-	-	REQUEST RR-ENG-01. EXAMINED 2.5T OF
			UT45		X	-	-	WELD LENGTH.
			UT45T		X	-	-	**SS-87**

415520	19 PIPE TO ELBOW (G-SW0002)	C-F	PT	200-1/69	X	-	-	VOLUMETRIC EXAMINATION PER RELIEF
		C5.11	UTOL	800-36/37	X	-	-	REQUEST RR-ENG-01.
			UT45		-	X	-	
			UT45T		X	-	-	**SS-87**

415530	19LU LONGITUDINAL WELD	C-F	PT	200-1/69	X	-	-	VOLUMETRIC EXAMINATION PER RELIEF
		C5.11	UTOL	800-36/37	X	-	-	REQUEST RR-ENG-01. EXAMINED 2.5T OF
			UT45		X	-	-	WELD LENGTH.
			UT45T		X	-	-	**SS-87**

6-CS-2103-PB2 (FIG NO 8-CS-1)

422000	1LU-1 LONGITUDINAL WELD	C-F	PT	200-1/69	X	-	-	VOLUMETRIC EXAMINATION PER RELIEF
		C5.12	UTOL	800-36/37	X	-	-	REQUEST RR-ENG-01. EXAMINED 2.5T OF
			UT45		X	-	-	WELD LENGTH.
			UT45T		X	-	-	**SS 84**

422010	1LU-2 LONGITUDINAL WELD	C-F	PT	200-1/69	X	-	-	VOLUMETRIC EXAMINATION PER RELIEF
		C5.12	UTOL	800-36/37	X	-	-	REQUEST RR-ENG-01. EXAMINED 2.5T OF
			UT45		X	-	-	WELD LENGTH.
			UT45T		X	-	-	**SS-84**

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
.....		.....		.....		.....	
<u>6-CS-2103-PB2 (FIG NO B-CS-1)</u>							
422020	1	C-F	PT	200-1/69	X	-	-
	REDUCING TEE TO PIPE	C5.11	UTOL	800-36/37	X	-	-
	(FW0001)		UT45		-	X	-
			UT45T		X	-	-
							**SS-B4**
422030	2	C-F	PT	200-1/69	X	-	-
	PIPE TO ELBOW	C5.11					
	(AA-SW0002)						
422040	3	C-F	PT	200-1/69	X	-	-
	ELBOW TO PIPE	C5.11					
	(AA-SW0003)						
422050	4	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW	C5.11					
	(AA-SW0004)						
422060	5	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	ELBOW TO PIPE	C5.11					
	(FW0022)						
422070	5LD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12					
422080	6LU	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12					

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						O	G		T	R	E
.....						-	-	-	**CALIBRATION BLOCK**		
<u>6-CS-2103-PB2 (FIG NO B-US-1)</u>											
422120	6 PIPE TO ELBOW (FW0002)	C-F C5.11	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
422170	7 ELBOW TO PIPE (B-SW0002)	C-F C5.11	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
422180	7LD LONGITUDINAL WELD	C-F C5.12	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
472190	8LU LONGITUDINAL WELD	C-F C5.12	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
422200	8 PIPE TO FLANGE (B-SW0003)	C-F C5.11	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
422210	9 FLANGE TO PIPE (C-SW0002)	C-F C5.11	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
422220	9LD LONGITUDINAL WELD	C-F C5.12	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.		

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R

6-CS-2103-PB2 (FIG NO B-CS-1)

422230 10LU C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
LONGITUDINAL WELD CS.12

422240 10 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
PIPE TO PIPE CS.11  
(C-SW0004)

422250 10LD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
LONGITUDINAL WELD CS.12

422260 11LU C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
LONGITUDINAL WELD CS.12

422270 11 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
PIPE TO VALVE CS.11  
(FW0003)

6-CS-2203-PB2 (FIG NO B-CS-7)

423000 1LU-1 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
LONGITUDINAL WELD CS.12

423110 1LU-2 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
LONGITUDINAL WELD CS.12



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NUMBER IDENTIFICATION		SEC. XI	CATGY EXAM		O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	A	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>6-CS-2203-PB2 (FJG NO B-CS-7)</u>							
423020	1 REDUCING TEE TO PIPE (FW0001)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
423040	2 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
423044	2LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
423046	3LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
423050	3 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
423060	4 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	X	-	
423064	4LD LONGITUDINAL WELD	C-F CS.11	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			O G T
		ITEM NO	METHOD	PROCEDURE			R E H
							E O E
							C M R
							REMARKS
							**CALIBRATION BLOCK**
-----							
<u>6-CS-2203-PB2 (FIG NO B-CS-7)</u>							
423066	5LU LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X	-	-
							VOLUMETRIC EXAMINATION PER RELIEF
							REQUEST RR-ENG-01, EXAMINED 2.5T OF
							WELD LENGTH.
							**SS-85**
423070	5 ELBOW TO PIPE (FW0018)	C-F CS.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X	-	-
							VOLUMETRIC EXAMINATION PER RELIEF
							REQUEST RR-ENG-01,
							**SS-85**
423080	5LD LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X	-	-
							VOLUMETRIC EXAMINATION PER RELIEF
							REQUEST RR-ENG-01, EXAMINED 2.5T OF
							WELD LENGTH.
							**SS-85**
423090	6LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-
							EXAMINED 2.5T OF WELD LENGTH.
423095	6 PIPE TO ELBOW (FW0002)	C-F CS.11	PT	200-1/69	X	-	-
423100	7 ELBOW TO PIPE (B-SW0002)	C-F CS.11	PT	200-1/69	X	-	-

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SUMMARY EXAMINATION AREA		ASME			M	O	
		SEC. XI	@		O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----		-----		-----		-----	
<u>6-CS-2203-P82 (FIG NO B-CS-7)</u>							
423110	7LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
423120	8LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
423130	8 PIPE TO FLANGE (B-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
423180	9 FLANGE TO PIPE (C-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
423190	9LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
423200	10LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
423210	10 PIPE TO PIPE (C-SW0004)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			M	O	
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	E	R	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

6-CS-2203-PB2 (FIG NO B-CS-7)

423220 10LD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

423230 11LU C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

423240 11 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO VALVE CS.11  
 (FW0003)

6-CS-2303-PB2 (FIG NO B-CS-4)

424000 1LU-1 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

424010 1LU-2 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

424020 1 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 REDUCING TEE TO PIPE CS.11  
 (FW0001)

424030 1LD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

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SUMMARY EXAMINATION AREA	ASME				N	D	
NUMBER IDENTIFICATION	SEC. XI	CATGY	EXAM		O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
<hr/>							
<u>6-CS-2303-PB2 (FIG NO B-CS-4)</u>							
424040	2LU	C-F	PT	SEE REMARKS			
	LONGITUDINAL WELD	C5.12					NOT SELECTED FOR EXAMINATION.
424050	2	C-F	PT	SEE REMARKS			
	PIPE TO ELBOW	C5.11					NOT SELECTED FOR EXAMINATION.
424060	2LD	C-F	PT	SEE REMARKS			
	LONGITUDINAL WELD	C5.12					NOT SELECTED FOR EXAMINATION.
424080	3LU	C-F	PT	SEE REMARKS			
	LONGITUDINAL WELD	C5.12					NOT SELECTED FOR EXAMINATION.
424100	3	C-F	PT	SEE REMARKS			
	ELBOW TO PIPE	C5.11					NOT SELECTED FOR EXAMINATION.
424110	3LD	C-F	PT	SEE REMARKS			
	LONGITUDINAL WELD	C5.12					NOT SELECTED FOR EXAMINATION.
424120	4LU	C-F	PT	SEE REMARKS			
	LONGITUDINAL WELD	C5.12					NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G
			ITEM NO	METHOD	PROCEDURE	REH
						E
						O
						E
						REMARKS
						**CALIBRATION BLOCK**
<u>6-CS-2303-PB2 (FIG NO B-CS-4)</u>						
424130	4 PIPE TO ELBOW	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
424140	4LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
424160	5LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
424180	5 ELBOW TO PIPE (FW0022)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
424190	5LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
424200	6LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
424210	6 PIPE TO PIPE (A-SW0003)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-----		
<u>6-CS-2303-PB2 (FIG NO B-CS-4)</u>							
424220	6LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
424240	7LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
424260	7 PIPE TO ELBOW (FW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
424270	7LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
424280	8LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
424290	8 ELBOW TO PIPE (B-SW0022)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
424292	8LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**
<u>6-CS-2303-PB2 (FIG NO B-CS-4)</u>							
424294 9LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
424300 9 PIPE TO FLANGE (B-SW0003)	C-F C5.11	PT	200-1/69	X	-	-	
424310 10 FLANGE TO PIPE (C-SW0002)	C-F C5.11	PT	200-1/69	X	-	-	
424320 10LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
424330 11LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
424340 11 PIPE TO PIPE (C-SW0003)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
424350 11LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.





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		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
.....		.....		.....		.....		.....
<u>1B-FW-2012-GA2 (FIG. NO. B-FW-1, 2)</u>								
50000	1	C-F	MT	300-1/33	X	-	-	
	VALVE TO PIPE	C5.21	UTOL	600-41/14	X	-	-	
	(FW0016)		UT45		X	-	-	
			UT45T		X	-	-	**CS-3**
500020	2	C-F	MT	300-1/33	X	-	-	
	PIPE TO VALVE	C5.21	UTOL	600-41/14	X	-	-	
	(FW0017)		UT45		X	-	-	
			UT45T		X	-	-	**CS-3**
500040	3	C-F	MT	300-1/33	X	-	-	
	VALVE TO PIPE	C5.21	UTOL	600-41/14	X	-	-	
	(FW0018)		UT45		X	-	-	
			UT45T		X	-	-	**CS-3**
500060	4	C-F	MT	300-1/33	X	-	-	
	PIPE TO PIPE	C5.21	UTOL	600-41/14	X	-	-	
	(FW0019)		UT45		X	-	-	
			UT45T		X	-	-	**CS-3**
500080	5	C-F	MT	300-1/33	X	-	-	
	PENETRATION TO PIPE	C5.21	UTOL	600-41/14	X	-	-	
	(FW0001)		UT45		X	-	-	
			UT45T		X	-	-	**CS-3**

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						C M R	E O E
.....							
<u>18-FW-2012-GA2 (FIG NO 8-FW-1, 2)</u>							
500140	6 PIPE TO ELBOW (FW0014)	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
500160	7 ELBOW TO PIPE (FW0002)	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
500180	8 PIPE TO ELBOW (D-SW0003)	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
500200	9 ELBOW TO PIPE (D-SW0002)	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
500220	10 PIPE TO PIPE (FW0003)	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
500240	11 PIPE TO ELBOW	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
500260	12 ELBOW TO PIPE (FW0004)	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
.....								

18-FW-2012-GA2 (FIG NO B-FW-1, 2)

500280	13 PI-2 TO ELBOW	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
500300	14 ELBOW TO PIPE (FW0005)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
500320	15 PIPE TO ELBOW	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
500340	16 ELBOW TO PIPE (FW0006)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
500360	17 PIPE TO REDUCER (FW0015)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

18-FW-2014-GA2 (FIG NO B-FW-3, 4)

500660	1 VALVE TO PIPE (FW0015)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ
					X	-	-	
					-	X	-	
					X	-	-	**CS-3**
500880	2 PIPE TO VALVE (FW0016)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ
					X	-	-	
					X	-	-	
					X	-	-	**CS-3**

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NUMBER	IDENTIFICATION	SEC. XI	METHOD		O	G	
		CATGY			R	E	
		ITEM NO			E	O	
					C	M	**CALIBRATION BLOCK**
-----							
<u>1B-FW-2014-0A2 (FIG NO B-FW-3, 4)</u>							
500900	3	C-F	WT	300-1/33	X	-	AUGMENTED PSI - BE2
	VALVE TO PIPE	CS.21	UT0L	600-41/14	X	-	
	(FW0017)		UT45		X	-	
			UT45T		X	-	**CS-3**
500920	4	C-F	WT	300-1/33	X	-	AUGMENTED PSI - BE2
	PIPE TO PIPE	CS.21	UT0L	600-41/14	X	-	
	(FW0018)		UT45		X	-	
			UT45T		X	-	**CS-3**
500940	5	C-F	WT	300-1/33	X	-	
	PENETRATION TO PIPE	CS.21	UT0L	600-41/14	X	-	
	(FW0001)		UT45		X	-	
			UT45T		X	-	**CS-3**
500960	6	C-F	WT	300-1/33	X	-	
	PIPE TO ELBOW	CS.21	UT0L	600-41/14	X	-	
	(C-SW0003)		UT45		-	X	
			UT45T		X	-	**CS-3**
500980	7	C-F	WT	300-1/33	X	-	
	ELBOW TO PIPE	CS.21	UT0L	600-41/14	X	-	
	(C-SW0002)		UT45		-	X	
			UT45T		X	-	**CS-3**

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
*****							
REMARKS							
**CALIBRATION BLOCK**							
*****							
<u>18-FW-2014-GA2 (FIG NO 8-FW-3, 4)</u>							
501020	8	C-F	MT	300-1/33	X	-	-
	PIPE TO ELBOW	CS.21	UTOL	600-41/14	X	-	-
	(FW0002)		UT45		-	X	-
			UT45T		X	-	-
							**CS-3**
501040	9	C-F	MT	300-1/33	X	-	-
	ELBOW TO PIPE	CS.21	UTOL	600-41/14	X	-	-
	(D-SW0002)		UT45		-	X	-
			UT45T		X	-	-
							**CS-3**
501060	10	C-F	MT	SEE REMARKS			
	PIPE TO PIPE	CS.21	UT				
	(FW0003)						NOT SELECTED FOR EXAMINATION.
501080	11	C-F	MT	SEE REMARKS			
	PIPE TO ELBOW	CS.21	UT				
	(E-SW0002)						NOT SELECTED FOR EXAMINATION.
501100	12	C-F	MT	SEE REMARKS			
	ELBOW TO PIPE	CS.21	UT				
	(FW0004)						NOT SELECTED FOR EXAMINATION.
501120	13	C-F	MT	SEE REMARKS			
	PIPE TO ELBOW	CS.21	UT				
	(F-SW0002)						NOT SELECTED FOR EXAMINATION.
501140	14	C-F	MT	SEE REMARKS			
	ELBOW TO PIPE	CS.21	UT				
	(FW0005)						NOT SELECTED FOR EXAMINATION.

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					C	G	H	O	E	

..... \*\*CALIBRATION BLOCK\*\* .....

18-FW-2016-GA2 (FIG NO B-FW-3, 4)

501160 15 PIPE TO ELBOW (G-SW00C2)	C-F CS.21	MT UT		SEE REMARKS						NOT SELECTED FOR EXAMINATION.
501180 16 ELBOW TO PIPE (FW0006)	C-F CS.21	MT UT		SEE REMARKS						NOT SELECTED FOR EXAMINATION.
501200 17 PIPE TO REDUCER (FW0014)	C-F CS.21	MT UT		SEE REMARKS						NOT SELECTED FOR EXAMINATION.

18-FW-2016-GA2 (FIG NO B-FW-5, 6)

501700 1 VALVE TO PIPE (FW0018)	C-F CS.21	MT UT0L UT45 UT45T		300-1/33 600-41/14	X	-	-			AUGMENTED PSI - BE2
					X	-	-			
					-	X	-			
					X	-	-			**CS-3**
501720 2 PIPE TO VALVE (FW0019)	C-F CS.21	MT UT0L UT45 UT45T		300-1/33 600-41/14	X	-	-			AUGMENTED PSI - BE2
					X	-	-			
					X	-	-			
					X	-	-			**CS-3**
501740 3 VALVE TO PIPE (FW0020)	C-F CS.21	MT UT0L UT45 UT45T		300-1/33 600-41/14	X	-	-			AUGMENTED PSI - BE2
					X	-	-			
					X	-	-			
					X	-	-			**CS-3**

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-----		
<u>1B-FW-2016-GA2 (FIG NO B-FW-5, 6)</u>							
501760	4	C-F	MT	300-1/33	X	-	-
	PIPE TO PIPE	C5.21	UT0L	600-41/14	X	-	-
	(FW0021)		UT45		X	-	-
			UT45T		X	-	-
					**CS-3**		
501780	5	C-F	MT	300-1/33	X	-	-
	PENETRATION TO PIPE	C5.21	UT0L	600-41/14	X	-	-
	(FW0001)		UT45		X	-	-
			UT45T		X	-	-
					**CS-3**		
501800	6	C-F	MT	SEE REMARKS			
	PIPE TO ELBOW	C5.21	UT				
	(C-SW0002)						
					NOT SELECTED FOR EXAMINATION.		
501820	7	C-F	MT	SEE REMARKS			
	ELBOW TO PIPE	C5.21	UT				
	(C-SW0003)						
					NOT SELECTED FOR EXAMINATION.		
501840	8	C-F	MT	SEE REMARKS			
	PIPE TO ELBOW	C5.21	UT				
	(C-SW0004)						
					NOT SELECTED FOR EXAMINATION.		
501860	9	C-F	MT	SEE REMARKS			
	ELBOW TO PIPE	C5.21	UT				
	(FW0002)						
					NOT SELECTED FOR EXAMINATION.		
501880	10	C-F	MT	SEE REMARKS			
	PIPE TO ELBOW	C5.21	UT				
	(D-SW0002)						
					NOT SELECTED FOR EXAMINATION.		



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					O	G	T	
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**
<u>18-FW-2016-GA2 (FIG NO B-FW-5, 6)</u>								
501900 11 ELBOW TO PIPE (FW0003)	C-F C5.21	MT UT0L UT45 UT45T	300-1/33 600-41/14		X X - X	- - X -	- - - -	**CS-3**
501920 12 PIPE TO PIPE (FW0004)	C-F C5.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
501940 13 PIPE TO ELBOW (FW0005)	C-F C5.21	MT UT0L UT45 UT45T	300-1/33 600-41/14		X X X X	- - - -	- - - -	**CS-3**
501960 14 ELBOW TO PIPE (G-SW0002)	C-F C5.21	MT UT0L UT45 UT45T	300-1/33 600-41/14		X X X X	- - - -	- - - -	**CS-3**
501980 15 PIPE TO ELBOW (FW0006)	C-F C5.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.  **CS-3**
502000 16 ELBOW TO PIPE	C-F C5.21	MT UT0L UT45 UT45T	300-1/33 600-41/14		X X - X	- - X -	- - - -	**CS-3**

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						C	M	R	
						*****			**CALIBRATION BLOCK**
<u>18-FW-2016-GA2 (FIG NO B-FW-5, 6)</u>									
502020	17 PIPE TO PIPE	C-F CS.21	MT UT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502040	18 PIPE TO ELBOW	C-F CS.21	MT UT0L UT45 UT45T		300-1/33 600-41/14	X X - X	- - X -		**CS-3**
502060	19 ELBOW TO PIPE (FW0007)	C-F CS.21	MT UT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502080	20 PIPE TO ELBOW (J-SW0002)	C-F CS.21	MT UT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502100	21 ELBOW TO PIPE (FW0008)	C-F CS.21	MT UT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502110	21A PIPE TO PIPE (FW8399)	C-F CS.21	MT UT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502120	22 PIPE TO PIPE (K-SW0007)	C-F CS.21	MT UT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	UTOL	UT45	UT45T	REMARKS
		ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**

1B-FW-2016-GA2 (FIG NO B-FW-5, 6)

502130	23 PIPE TO ELBOW (K-SW0002)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502140	24 ELBOW TO PIPE (W0009)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502160	25 PIPE TO REDUCER	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

1B-FW-2018-GA2 (FIG NO B-FW-7, 8)

502660	1 VALVE TO PIPE (FW0015)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ    **CS-3**
502680	2 PIPE TO VALVE (FW0016)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ    **CS-3**
502700	3 VALVE TO PIPE (FW0017)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ    **CS-3**

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					C	M	R	
<u>1B-FW-201B-GA2 (FIG NO B-FW-7, B)</u>								
502720	4 PIPE TO PIPE (FW0018)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ   **CS-3**
502740	5 PENETRATION TO PIPE (FW0001)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	   **CS-3**
502760	6 PIPE TO ELBOW (C-SW0002)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502780	7 ELBOW TO PIPE (C-SW0003)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502800	8 PIPE TO ELBOW (C-SW0004)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502820	9 ELBOW TO PIPE (C-SW0005)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
502840	10 PIPE TO ELBOW (FW0002)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T		
		CATGY	EXAM			R	E	H	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E		
					C	M	R	**CALIBRATION BLOCK**	
-----		-----		-----	-	-	-	-----	
<u>18-FW-2018-GA2 (FIG NO B-FW-7, 8)</u>									
502860	11 ELBOW TO PIPE (D-SW0002)	C-F CS.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
502880	12 PIPE TO PIPE (D-SW0003)	C-F CS.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
502900	13 PIPE TO ELBOW (D-SW0004)	C-F CS.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
502920	14 ELBOW TO PIPE (F810271)	C-F CS.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
502940	15 PIPE TO ELBOW <sup>1</sup> (FW0003)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	X	-
					-	X	-	**CS-3**	
					X	-	-		
502960	16 ELBOW TO PIPE (E-SW0003)	C-F CS.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
502980	17 PIPE TO PIPE (F810293)	C-F CS.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			
		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
*****							
<u>18-FW-2018-GA2 (FIG NO 8-FW-7, 8)</u>							
503040	18 PIPE TO ELBOW (FW0004)	C-F CS.21	MT UT	SEE REMARKS			REMARKS **CALIBRATION BLOCK**
							*****
503060	19 ELBOW TO PIPE	C-F CS.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
503080	20 PIPE TO ELBOW (F-SW0003)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	- - X - X - - **CS-3**
503100	21 ELBOW TO PIPE (FW0005)	C-F CS.21	MT UTOL UT4J UT45T	300-1/33 600-41/14	X	-	- - X - X - - **CS-3**
503110	21A PIPE TO PIPE (FSS401)	C-F CS.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
503120	22 PIPE TO ELBOW (FSS400)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	- - X - X - - **CS-3**



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NUMBER	IDENTIFICATION	CATGY	ITEM NO	METHOD		**CALIBRATION BLOCK**
<u>18-FW-2029-AA2 (FIG NO 8-FW-1)</u>						
503680	2	C-F	MT	300-1/33	X - -	AUGMENTED PSI - BEZ
	PIPE TO PIPE	CS.21	UT0L	600-41/14	X - -	
	(FW0005)		UT45		- X -	
			UT45T		X - -	**CS-4**
503700	3	C-F	MT	300-1/33	X - -	AUGMENTED PSI - BEZ
	PIPE TO PIPE	CS.21	UT0L	600-41/14	X - -	
	(FW0006)		UT45		- X -	
			UT45T		X - -	**CS-4**
503720	4	C-F	MT	300-1/33	X - -	AUGMENTED PSI - BEZ
	PIPE TO VALVE	CS.21	UT0L	600-41/14	X - -	
	(FW0007)		UT45		X - -	
			UT45T		X - -	**CS-4**
<u>18-FW-2030-AA2 (FIG NO 8-FW-3)</u>						
504220	1	C-F	MT	300-1/33	X - -	AUGMENTED PSI - BEZ
	ELBOW TO PIPE	CS.21	UT0L	600-41/14	X - -	
	(FW0004)		UT45		X - -	
			UT45T		X - -	**CS-4**
504230	1PL1-1PL5	C-C	MT	300-1/33	X - -	AUGMENTED PSI - BEZ. LIMITED UT AND MT
	PIPE LUGS	CS.20	UT0L	800-119/1	X - -	COVERAGE DUE TO PIPE LUG CONFIGURATION.
			UT0W		X - -	SEE APPENDIX L OF THIS REPORT.
			UT45		- X -	
			UT45T		X - -	**CS-33**



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			C	M	R	

18-FW-2030-AA2 (FIG NO B-FW-3)

504235	1PL9-1PL10 PIPE LUGS	--	UTOL UT45	800-119/1	X - - X - -	AUGMENTED PSI - BEZ. LIMITED UT COVERAGE DUE TO PIPE LUG CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CS-2/CS-33**
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504240	2 PIPE TO PIPE (FW0005)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - - X - X - -	AUGMENTED PSI - BEZ    **CS-4**
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504260	3 PIPE TO PIPE (FW0006)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	AUGMENTED PSI - BEZ    **CS-4**
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504280	4 PIPE TO VALVE (FW0007)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - - X - X - -	    **CS-4**
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18-FW-2031-AA2 (FIG NO B-FW-5)

504780	1 ELBOW TO PIPE (FW0004)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - - X - X - -	    **CS-4**
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-----								
<u>18-FW-2031-AA2 (FIG NO B-FW-5)</u>								
504790 1PL1-1PL8 PIPE LUGS	C-C C3.20	MT		300-1/33	-	-	X	AUGMENTED PSI - BEZ. ONE LINEAR MT INDICATION ON LUG 1PL5. SEE CNF'S 056 AND 071. REEXAMINATION REVEALED NO RECORDABLE INDICATION. LIMITED UT AND MT COVERAGE DUE TO PIPE LUG CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CS-33**
		UTOL		800-119/1	X	-	-	
		UTOW			X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	
504795 1PL9-1PL10 PIPE LUGS	-- --	UTOL		800-119/1	X	-	-	AUGMENTED PSI - BEZ. LIMITED UT COVERAGE DUE TO PIPE LUG CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CS-2/CS-33**
		UT45			-	X	-	
504800 2 PIPE TO PIPE (FW0005)	C-F C5.21	MT		300-1/33	X	-	-	AUGMENTED PSI - BEZ
		UTOL		600-41/14	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	**CS-4**
504820 3 PIPE TO PIPE (FW0006)	C-F C5.21	MT		300-1/33	X	-	-	AUGMENTED PSI - BEZ
		UTOL		600-41/14	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	**CS-4**
504830 4 PIPE TO PIPE (E-SWOC)	C-F C5.21	MT		300-1/33	X	-	-	AUGMENTED PSI - BEZ
		UTOL		600-41/14	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	**CS-4**

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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
NUMBER	IDENTIFICATION	CATGY	EXAM	PROCEDURE	E	O	E	REMARKS
		ITEM NO	METHOD		C	M	R	**CALIBRATION BLOCK**
<hr/>								
<u>18-1/2-2031-AA2 (FIG NO B-FW-5)</u>								
504840	5	C-F	MT	300-1/33	X	-	-	
	PIPE TO VALVE	5.21	UT0L	600-41/14	X	-	-	
	(FW0007)		UT45		-	X	-	
			UT45T		X	-	-	**CS-4**
<u>18-FW-2032-AA2 (FIG NO B-FW-7)</u>								
505340	1	C-F	MT	300-1/33	X	-	-	
	ELBOW TO PIPE	C5.21	UT0L	600-41/14	X	-	-	
	(FW0004)		UT45		X	-	-	
			UT45T		X	-	-	**CS-4**
505350	1PL1-1PL8	C-C	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ. LIMITED UT AND MT
	PIPE LUGS	C3.20	UT0L	800-119/1	X	-	-	COVERAGE DUE TO PIPE LUG CONFIGURATION.
			UT0W		X	-	-	SEE APPENDIX L OF THIS REPORT.
			UT45		-	X	-	
			UT45T		X	-	-	**CS-33**
505355	1PL9-1PL10	--	UT0L	800-119/1	X	-	-	AUGMENTED PSI - BEZ. LIMITED UT
	PIPE LUGS	--	UT45		-	X	-	COVERAGE DUE TO PIPE LUG CONFIGURATION.
								SEE APPENDIX L OF THIS REPORT.
								**CS-2/CS-33**
505360	2	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ
	PIPE TO PIPE	C5.21	UT0L	600-41/14	X	-	-	
	(FW0005)		UT45		X	-	-	
			UT45T		X	-	-	**CS-4**

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				E O E	C M R	**CALIBRATION BLOCK**	
<u>18-FW-2032-AA2 (FIG NO B-FW-7)</u>							
505380 3 PIPE TO PIPE (FW0006)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -			AUGMENTED PSI - BEZ    **CS-4**
505390 4 PIPE TO PIPE (E-SW0014)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -			AUGMENTED PSI - BEZ    **CS-4**
505400 5 PIPE TO VALVE (FW0007)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - - X - X - -			    **CS-4**
<u>16-FW-2012-GA2 (FIG NO B-FW-2)</u>							
505900 1 REDUCER TO PIPE	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
505920 2 PIPE TO ELBOW	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
505940 3 ELBOW TO PIPE (FS8425)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS
-----								**CALIBRATION BLOCK**
-----								-----

16-FW-2012-GA2 (FIG NO B-FW-2)

505950 3A C-F MT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO PIPE C5.21 UT  
 (FSB415)

505960 4 C-F MT 300-1/33 X - -  
 PIPE TO NOZZLE C5.21 UTOL 600-41/14 X - -  
 (FW0007) UT45 - X -  
 UT45T X - -  
 \*\*CS-15\*\*

16-FW-2014-GA2 (FIG NO B-FW-4)

506460 1 C-F MT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 REDUCER TO PIPE C5.21 UT  
 (J-SW0002)

506480 2 C-F MT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO ELBOW C5.21 UT  
 (J-SW0003)

506500 3 C-F MT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 ELBOW TO PIPE C5.21 UT  
 (J-SW0004)

506520 4 C-F MT 300-1/33 X - -  
 PIPE TO NOZZLE C5.21 UTOL 600-41/14 X - -  
 (FW0007) UT45 - X -  
 UT45T X - -  
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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS
-----							
**CALIBRATION BLOCK**							
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16-FW-2016-GA2 (FIG NO B-FW-6)

507020 1	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
REDUCER TO PIPE (L-SW0003)	C5.21	UT					

507040 2	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
PIPE TO ELBOW (L-SW0002)	C5.21	UT					

507060 3	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
ELBOW TO PIPE (L-SW0005)	C5.21	UT					

507080 4	C-F	MT	300-1/33	X	-	-	
PIPE TO NOZZLE (FW0010)	C5.21	UT0L	600-41/14	X	-	-	
		UT45		-	X	-	
		UT45T		X	-	-	**CS-15**

16-FW-2018-GA2 (FIG NO B-FW-8)

507580 1	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
REDUCER TO PIPE (J-SW0002)	C5.21	UT					

507600 2	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
PIPE TO ELBOW (J-SW0003)	C5.21	UT					

507620 3	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
ELBOW TO PIPE (J-SW0004)	C5.21	UT					

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				N	O			
				O	G	T		
				R	E	H		
SUMMARY EXAMINATION AREA		CATGY	EXAM	E	O	E	REMARKS	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**

16-FW-20\*B-GA2 (FIG NO B-FW-8)

507640	4	C-F	MT	300-1/33	X	-	-	
	PIPE TO NOZZLE	C5.21	UTOL	600-41/14	X	-	-	
	(FW0007)		UT45		X	-	-	
			UT45T		X	-	-	

\*\*CS-15\*\*

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-	-	-
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>							
550000	1	C-F	MT	300-1/33	X	-	-
	NOZZLE TO REDUCER	C5.21	UTOL	600-41/14	X	-	-
	(FW0001)		UT45		X	-	-
			UT45T		X	-	-
							**CS-74**
550020	1LD	C-F	MT	300-1/33	X	-	-
	LONGITUDINAL WELD	C5.22	UTOL	600-41/14	X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**CS-74**
550060	2LU	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.22	UT				
550100	2	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	REDUCER TO PIPE	C5.21	UT				
550120	2LD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.22	UT				
550140	3LU	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.22	UT				
550160	3	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW	C5.21	UT				



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						O	G	T	
						E	O	E	
						C	M	R	**CALIBRATION BLOCK**
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>									
550180	3LD1 LONGITUDINAL WELD	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.22	UT						
550200	3LDO LONGITUDINAL WELD	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.22	UT						
550220	4LUI LONGITUDINAL WELD	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.22	UT						
550240	4LUO LONGITUDINAL WELD	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.22	UT						
550260	4 ELBOW TO PIPE (FW0061)	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.21	UT						
550280	4LD LONGITUDINAL WELD	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.22	UT						
550300	5LU LONGITUDINAL WELD	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.22	UT						

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SUMMARY EXAMINATION AREA		ASME				
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	PROCEDURE	REMARKS
		ITEM NO	METHOD			**CALIBRATION BLOCK**
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>						
550320	5 PIPE TO ELBOW	C-F C5.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
550340	5LD1 LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
550360	5LDO LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
550380	6LUI LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
550400	6LUO LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
550420	6 ELBOW TO PIPE	C-F C5.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
550440	6LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	
			ITEM NO	METHOD	PROCEDURE	R	E
						E	O
						C	M
						R	**CALIBRATION BLOCK**
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>							
550460	7LU LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				
550480	7 PIPE TO PIPE	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.21	UT				
550500	7LD LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				
550520	8LU LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				
550540	8 PIPE TO PIPE	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.21	UT				
550560	8LD LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				
550580	9LU LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				

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			-	-	-	
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>						
550600 9 PIPE TO PIPE (FW0002)	C-F MT C5.21 UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550620 9LD LONGITUDINAL WELD	C-F MT C5.22 UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550640 10LU LONGITUDINAL WELD	C-F MT C5.22 UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550660 10 PIPE TO ELBOW (B-SW0002)	C-F MT C5.21 UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550680 10LD1 LONGITUDINAL WELD	C-F MT C5.22 UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550700 10LDO LONGITUDINAL WELD	C-F MT C5.22 UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550720 11LU1 LONGITUDINAL WELD	C-F MT C5.22 UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	
		CATGY	EXAM			R	E
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>							
550740	11LUO LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
550760	11 ELBOW TO PIPE (FW0003)	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
550780	11LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
550800	12LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
550820	12 PIPE TO PIPE	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
550840	12LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
550860	13LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
-----								
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>								
550880	13 PIPE TO ELBOW	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550900	13LD1 LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550920	13LDO LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550940	14LUI LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550960	14LUO LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
550980	14 ELBOW TO PIPE	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
551000	14LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>								
551020	15LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
551040	15 PIPE TO PIPE	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
551060	15LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
551080	16LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
551100	16 PIPE TO ELBOW	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
551120	16LD1 LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
551140	16LDO LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME				
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	PROCEDURE	REMARKS
		ITEM NO	METHOD			
						**CALIBRATION BLOCK**
<hr/>						
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>						
551160	17LUI LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
551180	17LUO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
551200	17 ELBOW TO PIPE (FW0004)	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
551220	17LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
551240	18LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
551260	18 PIPE TO ELBOW	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
551280	18LD1 LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.



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						O	G	T	
						E	O	E	
						C	M	R	**CALIBRATION BLOCK**
-----									
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>									
551300	18LDO LONGITUDINAL WELD	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.22	UT						
551320	19LU1 LONGITUDINAL WELD	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.22	UT						
551340	19LU0 LONGITUDINAL WELD	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.22	UT						
551360	19 ELBOW TO PIPE (FW0004A)	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.21	UT						
551380	19LD LONGITUDINAL WELD	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.22	UT						
551400	20LU LONGITUDINAL WELD	C-F	MT		300-1/33	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
		C5.22	UT0L		600-41/14	X	-	-	
			UT4S			X	-	-	
			UT45T			X	-	-	**CS-5**
551420	20 PIPE TO ELBOW (FW0005)	C-F	MT		300-1/33	X	-	-	
		C5.21	UT0L		600-41/14	X	-	-	
			UT4S			-	X	-	
			UT45T			X	-	-	**CS-5**

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NUMBER IDENTIFICATION		SEC. XI	CATGY	METHOD	UTOL	GT	
		ITEM NO		PROCEDURE	C	R	
-----							
<u>30-MS-2001-0A2 (FIG NO B-MS-1, 2)</u>							
551440	20LD1 LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X X - X	- - X -	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
551460	20LDO LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X X - X	- - X -	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
551480	21LUI LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X X X X	- - - -	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
551500	21LUD LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X X - X	- - X -	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
551520	21 ELBOW TO PIPE (FW0005A)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - X X	- - X -	NINE UTOL CODE ALLOWABLE INDICATIONS. SEE CNF 021.   **CS-5**



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		SEC. XI			O	A	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----							
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>							
551700	24	C-F	MT	300-1/33	X	-	-
	PIPE TO PIPE	CS.21	UT0L	600-41/14	X	-	-
	(FW0055)		UT45		-	X	-
			UT45T		X	-	-
							**CS-5**
551720	24LD	C-F	MT	300-1/33	X	-	-
	LONGITUDINAL WELD	CS.22	UT0L	600-41/14	X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI. **CS-33**
551740	25LU	C-F	MT	300-1/33	X	-	-
	LONGITUDINAL WELD	CS.22	UT0L	600-41/14	X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI. **CS-33**
551760	25	C-F	MT	300-1/33	X	-	-
	PIPE TO PIPE	CS.21	UT0L	600-41/14	X	-	-
	(FW0056)		UT45		X	-	-
			UT45T		X	-	-
							AUGMENTED PSI - BEZ **CS-33**
551780	25LD	C-F	MT	300-1/33	X	-	-
	LONGITUDINAL WELD	CS.22	UT0L	600-41/14	X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI. **CS-35**

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----							
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>							
551782	26LU LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					X	-	-
					X	-	-
					X	-	-
					EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.		
					**CS-35**		
551784	26 PIPE TO PIPE	C-F C5.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					X	-	-
					X	-	-
					X	-	-
					AUGMENTED PSI - BEZ. LIMITED MT, UT45 AND UT45T DUE TO PROXIMITY OF PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT.		
					**CS-35**		
551786	26LD LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					X	-	-
					X	-	-
					X	-	-
					EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.		
					**CS-35**		
551788	27LU LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					X	-	-
					X	-	-
					X	-	-
					EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.		
					**CS-35**		
551790	27 PIPE TO PIPE	C-F C5.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					X	-	-
					X	-	-
					X	-	-
					AUGMENTED PSI - BEZ		
					**CS-35**		

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SUMMARY EXAMINATION AREA		ASME			M	O		
NUMBER	IDENTIFICATION	SEC. x1	CATGY	EXAM	UTOL	UT45	UT45T	
		ITEM NO	METHOD	PROCEDURE	C	M	R	
								REMARKS
								**CALIPRATION BLOCK**
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>								
551792	27LD LONGITUDINAL WELD	C-F C5.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.  **CS-35**
551800	28LU LONGITUDINAL WELD	C-F C5.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI.  **CS-35**
551820	28 PIPE TO VALVE (FW0057)	C-F C5.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	    **CS-5**
551840	29 VALVE TO PIPE (FW0058)	C-F C5.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	    **CS-5**
551860	29LD LONGITUDINAL WELD	C-F C5.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI.  **CS-34**

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SUMMARY EXAMINATION AREA		ASME			M	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>30-MS-2001-G-2 (FIG NO B-MS-1, 2)</u>							
551870	29PL1-29PL8 PIPE LUGS	C-C C3.20	MT UTOL UTOW UT45 UT45T	300-1/33 800-119/1	X - - X - - - - X - - X X - -	- - - - - - - - - -	AUGMENTED PSI - BEZ. ONE UTOW AND UT45 CODE ALLOWABLE INDICATION ON LUG 29PL2. SEE CNF 092, LIMITED UT AND MT COVERAGE DUE TO PIPE LUG CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CS-34**
551880	30LU LONGITUDINAL WELD	C-F C5.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	- - - - - - - -	EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI. LIMITED UT45 DUE TO PROXIMITY OF PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT. **CS-34**
551900	30 PIPE TO PIPE	C-F C5.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	- - - - - - - -	**CS-33**
551920	30LD LONGITUDINAL WELD	C-F C5.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	- - - - - - - -	EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI. LIMITED MT, UT45 AND UT45T DUE TO PROXIMITY OF PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT. **CS-34**
551930	30PL1-30PL2 PIPE LUGS	-- --	UTOL UT45	800-119/1	X - - - X -	- - - -	AUGMENTED PSI - BEZ. LIMITED UT COVERAGE DUE TO PIPE LUG CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CS-2 CS-33**

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SUMMARY EXAMINATION AREA		ASME			M	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>30-MS-2001-GA2 (FIG NO B-MS-1, 2)</u>							
551940	31LU LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI. LIMITED MT, UT45 AND UT45T DUE TO PROXIMITY OF PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT. **CS-34**		
551960	31 PIPE TO PIPE (FW0059)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					AUGMENTED PSI - BEZ   **CS-5**		
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>							
552500	1 NOZZLE TO REDUCER (FW0001)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					**CS-74**		
552520	1LD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					EXAMINED 2.5T OF WELD LENGTH.   **CS-74**		
552560	2LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		



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NUMBER IDENTIFICATION		SEC. XI	CATGY	METHOD	PROCEDURE	REMARKS	
		ITEM NO				**CALIBRATION BLOCK**	
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>							
552600	2	C-F	MT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.	
	REDUCER TO PIPE	C5.21	UT				
552620	2LD	C-F	MT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.	
	LONGITUDINAL WELD	C5.22	UT				
552640	3LU	C-F	MT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.	
	LONGITUDINAL WELD	C5.22	UT				
552660	3	C-F	MT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.	
	PIPE TO ELBOW	C5.21	UT				
552680	3LD1	C-F	MT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.	
	LONGITUDINAL WELD	C5.22	UT				
552700	3LDO	C-F	MT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.	
	LONGITUDINAL WELD	C5.22	UT				
552720	4LUI	C-F	MT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.	
	LONGITUDINAL WELD	C5.22	UT				

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SUMMARY EXAMINATION AREA		ASME			N	O
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G
		ITEM NO	METHOD	PROCEDURE	R	E
					H	
					E	O
					E	
					C	M
					R	
					**CALIBRATION BLOCK**	
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>						
552740	4LU0 LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
552760	4 ELBOW TO PIPE (FW0061)	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
552780	4LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
552800	5LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
552820	5 PIPE TO ELBOW (AA-SW0003)	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
552840	5LDI LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
552860	5LDO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			M	Q	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>30-MS-2002-GA2 (FIG. NO B-MS-3, 6)</u>							
552880	6LUI LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
552900	6LUO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
552920	6 ELBOW TO PIPE (AA-SW0002)	C-F CS.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
552940	6LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
552960	7LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
552980	7 PIPE TO PIPE (AA-SW0007)	C-F CS.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
553000	7LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G
		CATGY	EXAM		R	E
NUMBER	IDENTIFICATION	ITLA NO	METHOD	PROCEDURE	E	O
					C	M
					R	
					REMARKS	
					**CALIBRATION BLOCK**	
-----					-----	
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>						
553020	8LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
553040	8 PIPE TO PIPE (FW0002)	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
553060	8LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
553080	9LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
553100	9 PIPE TO PIPE (B-SW0009)	C-F C5.21	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
553120	9LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
553140	10LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	

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					*	*	*	
<u>30-MS-2002-0A2 (FIG NO B-MS-3, 4)</u>								
553160	10 PIPE TO ELBOW (B-SW0002)	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553180	10LD1 LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553200	10LDO LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553220	11LU1 LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553240	11LUO LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553260	11 ELBOW TO PIPE (FWD03)	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553280	11LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N O	
		SEC. XI			O G T	
		CATGY	EXAM			R E H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C M R	REMARKS
-----						
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>						
553500	12LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
553320	12 PIPE TO ELBOW (C-SW0004)	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
553340	12LD1 LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
553360	12LDO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
553380	13LUI LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
553400	13LUO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
553420	13 ELBOW TO PIPE (C-SW0003)	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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					O	G	T	
		ITEM NO			E	O	E	**CALIBRATION BLOCK**
-----	-----	-----	-----	-----	-	-	-	-----
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>								
553440	13LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553460	14LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553480	14 PIPE TO PIPE (C-SW0002)	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553500	14LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553520	15LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553525	15 PIPE TO PIPE (C-SW0009)	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553530	15LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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				C	M	R	
-----							
<u>30-MS-2002-GA2 (FIG NO JI-MS-3, 4)</u>							
553535 16LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553540 16 PIPE TO ELBOW (FW0004)	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553560 16L01 LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553570 16L00 LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553600 17.U1 LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -			EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
553610 17LU0 LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - - X - X - -			EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
553640 17 ELBOW TO PIPE (N-SW0003)	C-F C5.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - - - X X - -			TWO UT45 CODE ALLOWABLE INDICATIONS. SEE CNF 033.   **CS-5**



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SUMMARY NUMBER	EXAMINATION IDENTIFICATION AREA	ASME SEC. XI CATGY	EXAM ITEM NO METHCD	PROCEDURE	M O D O G T R E H E O E			REMARKS
					C	M	R	
-----								**CALIBRATION BLOCK**
-----								
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>								
553660	17LD LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X X X X	- - - -	- - - -	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
553680	18LU LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X X X X	- - - -	- - - -	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
553700	18 PIPE TO ELBOW (N-SW0002)	C-F C5.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X X X X	- - - -	- - - -	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
553720	18LD1 LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X X - X	- - X -	- - - -	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
553740	18LDO LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X X - X	- - X -	- - - -	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----								
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>								
553760	19LUI LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
					X	-	-	
					-	X	-	
					X	-	-	**CS-5**
553780	19LUD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
					X	-	-	
					-	X	-	
					X	-	-	**CS-5**
553800	19 ELBOW TO PIPE (FW0004A)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	TWO UT0L CODE ALLOWABLE INDICATIONS.
					-	-	X	SEE CNF 023.
					-	X	-	
					X	-	-	**CS-5**
553820	19LD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
					X	-	-	
					X	-	-	
					X	-	-	**CS-5**
553840	20LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553845	20 PIPE TO PIPE (D-SW0003)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>								
553850	20LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
553855	21LU LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.  **CS-5**
553860	21 PIPE TO ELBOW (FW0005)	C-F C5.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.  **CS-5**
553880	21LD1 LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.  **CS-5**
553900	21LDO LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.  **CS-5**
553920	22LUI LONGITUDINAL WELD	C-F C5.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.  **CS-5**

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	N	R	**CALIBRATION BLOCK**
-----		-----		-----	-	-	-	-----
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>								
553940	22LUO LONGITUDINAL WELD	C-F C5.22	MT UTOL UT45 UT45T	700-1/33 J0-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
					X	-	-	
					X	-	-	
					X	-	-	**CS-5**
553960	22 ELBOW TO PIPE (FW0005A)	C-F C5.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	ONE UTOL CODE ALLOWABLE INDICATION. SEE
					-	-	X	CNF 024.
					-	X	-	
					X	-	-	**CS-5**
553980	22LD LONGITUDINAL WELD	C-F C5.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
					X	-	-	
					X	-	-	
					X	-	-	**CS-5**
554000	23LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
554005	23 PIPE TO PIPE (E-SW0003)	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
554010	23LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			W	O		
		SEC. XI			O	G		
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
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<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>								
554015	24LU LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI. FIVE UTOL CODE ALLOWABLE INDICATIONS. SEE CNF 025. **CS-5**
554020	24 PIPE TO PENETRATION (FW0006)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	**CS-5**
554080	25 PIPE TO PIPE (FW0055)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	-	-	X	AUGMENTED PSI - BEZ. ONE LINEAR MT INDICATION. SEE CNF'S 058 AND 073. REEXAMINATION REVEALED NO RECORDABLE INDICATION. **CS-5**
554100	25LD LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAM WED 100% OF WELD LENGTH. AUGMENTED PSI. **CS-33**
554120	26LU LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI. **CS-33**

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM				
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----								
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>								
554140	26	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ
	PIPE TO PIPE	CS.21	UTOL	600-41/14	X	-	-	
	(FW0056)		UT45		X	-	-	
			UT45T		X	-	-	**CS-33**
554160	26LD	C-F	MT	300-1/33	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	CS.22	UTOL	600-41/14	X	-	-	PSI.
			UT45		X	-	-	
			UT45T		-	X	-	**CS-35**
554162	27LU	C-F	MT	300-1/33	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	CS.22	UTOL	600-41/14	X	-	-	PSI.
			UT45		X	-	-	
			UT45T		X	-	-	**CS-35**
554164	27	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ. LIMITED MT, UT45
	PIPE TO PIPE	CS.21	UTOL	600-41/14	X	-	-	AND UT45T DUE TO PROXIMITY OF PERMANENT
			UT45		X	-	-	PIPE SUPPORT. SEE APPENDIX L OF THIS
			UT45T		X	-	-	REPORT.
								**CS-35**
554166	27LD	C-F	MT	300-1/33	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	CS.22	UTOL	600-41/14	X	-	-	PSI.
			UT45		X	-	-	
			UT45T		X	-	-	**CS-35**

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SUMMARY EXAMINATION AREA		ASME			W	O		
		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>30-MS-2002-0A2 (FIG NO B-MS-3, 4)</u>								
554168	28LU LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH, AUGMENTED PSI.
					X	-	-	**CS-35**
554170	28 PIPE TO PIPE	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ
					X	-	-	**CS-35**
554172	28LD LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH, AUGMENTED PSI.
					X	-	-	**CS-35**
554180	29LU LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH, AUGMENTED PSI.
					X	-	-	**CS-35**
554200	29 PIPE TO VALVE (FW0057)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ
					X	-	-	**CS-35**





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SUMMARY EXAMINATION AREA		ASME SEC. XI	EXAM	PROCEDURE	N O O G T R E H E O E C M R	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD			**CALIBRATION BLOCK**
<u>30-MS-2002-GA2 (FIG NO B-MS-3, 4)</u>						
554300	31LD LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI. LIMITED MT, UT45 AND UT45T DUE TO PROXIMITY OF PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT. **CS-34**
554310	31PL1-31PL2 PIPE LUGS	-- --	UTOL UTOW	800-119/1 UT45	X - - - X -	AUGMENTED PSI - BEZ. LIMITED UT COVERAGE DUE TO PIPE LUG CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CS-2 CS-33**
554320	32LU LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI. LIMITED MT, UT45, AND UT45T DUE TO PROXIMITY OF PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT. **CS-34**
554340	32 PIPE TO PIPE (FW0059)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	AUGMENTED PSI - BEZ   **CS-5**
<u>30-MS-2003-GA2 (FIG NO B-MS-5, 6)</u>						
554820	1 NOZZLE TO REDUCER (FW0001)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	   **CS-5**

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SUMMARY EXAMINATION AREA		ASME			M	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
<u>30-MS-2003-GA2 (FIG NO B-MS-5, 6)</u>							
554840	1LD LONGITUDINAL WELD	C-F CS.22	NT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-
							EXAMINED 2.5T OF WELD LENGTH.
							**CS-5**
554880	2LU LONGITUDINAL WELD	C-F CS.22	NT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
554920	2 REDUCER TO PIPE	C-F CS.21	NT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
554940	2LD LONGITUDINAL WELD	C-F CS.22	NT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
554960	3LU LONGITUDINAL WELD	C-F CS.22	NT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
554980	3 PIPE TO ELBOW	C-F CS.21	NT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555000	3LD1 LONGITUDINAL WELD	C-F CS.22	NT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O	G	T	REMARKS
		CATGY	ITEM NO	METHOD	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
					-	-	-	
<u>30-MS-2003-GA2 (FIG NO R-MS-5, 6)</u>								
555020	3LDO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
555040	4LUI LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
555060	4LUN LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
555080	4 ELBOW TO PIPE (FW0061)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
555100	4LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
555120	5LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
555140	5 PIPE TO ELBOW (AA-SW0002)	C-F CS.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	W	O	REMARKS				
					O	G		T	R	E	H
-----											
<u>30-MS-2003-GA2 (FIG NO 3-MS-5, 6)</u>											
555160	5LD1 LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.				
555180	5LDO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.				
555200	6LUI LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.				
555220	6LUO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.				
555240	6 ELBOW TO PIPE (PA-SW0003)	C-F CS.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.				
555260	6LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.				
555280	7LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.				

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	M O O G T R E H E O E C M R			REMARKS
-----						
<u>30-HS-2003-GA2 (FIG NO B-MC-5, 6)</u>						
555300 7 PIPE TO PIPE (AA-SW0011)	C-F CS.21 UT	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555320 7LD LONGITUDINAL WELD	C-F CS.22 UT	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555340 8LU LONGITUDINAL WELD	C-F CS.22 UT	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555360 8 PIPE TO PIPE (FW0002)	C-F CS.21 UT	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555380 8LD LONGITUDINAL WELD	C-F CS.22 UT	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555400 9LU LONGITUDINAL WELD	C-F CS.22 UT0L UT45 UT45T	MT	300-1/33 600-41/14	X - - - - X X - - X - -		EXAMINED 2.5T OF WELD LENGTH, ONE UT0L CODE ALLOWABLE INDICATION, SEE CNF 029.  **CS-5**
555420 9 PIPE TO ELBOW (B-SW0002)	C-F CS.21 UT0L UT45 UT45T	MT	300-1/33 600-41/14	X - - - - X X - - X - -		ONE UT0L CODE ALLOWABLE INDICATION, SEE CNF 030.  **CS-5**

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NUMBR	IDENTIFICATION	SEC. XI	CATGY	ITEM NO	UTOL	UT45	UT45T	
.....	.....	.....	.....	.....	.....	.....	.....	
<u>30-MS-2003-0A2 (FIG NO B-MS-5, 6)</u>								
555440	9LD1 LONGITUDINAL WELD	C-F	WT	300-1/33	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
		CS.22	UTOL	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-5**
555460	9LDO LONGITUDINAL WELD	C-F	WT	300-1/33	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
		CS.22	UTOL	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-5**
555480	10LU1 LONGITUDINAL WELD	C-F	WT	300-1/33	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
		CS.22	UTOL	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-5**
555500	10LU0 LONGITUDINAL WELD	C-F	WT	300-1/33	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
		CS.22	UTOL	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-5**
555520	10 ELBOW TO PIPE (FW0003)	C-F	WT	300-1/33	X	-	-	TWO UTOL CODE ALLOWABLE INDICATIONS.
		CS.21	UTOL	600-41/14	-	-	X	SEE CNF 026.
			UT45		X	-	-	
			UT45T		X	-	-	**CS-5**

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NUMBER IDENTIFICATION	SEC. XI	CATGY	EXAM	PROCEDURE	O G T	RE H
	ITEM NO	METHOD			E O E	REMARKS
-----	-----	-----	-----	-----	C M R	**CALIBRATION BLOCK**
-----	-----	-----	-----	-----	- - -	-----
<u>30-MS-2003-GA2 (FIG NO 8-MS-5, 6)</u>						
555540 10LD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14		X - - X - - X - - X - -	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
555560 11LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555580 11 PIPE TO PIPE	C-F CS.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555600 11LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555620 12LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555640 12 PIPE TO PIPE	C-F CS.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
555660 12LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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					E	O	R	
					C	M	R	
-----								
<u>30-MS-2003-0A2 (FIG NO B-N1-5, 6)</u>								
555680	13LU LONGITUDINAL WELD	C-F CS.22	NT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
555700	13 PIPE TO ELBOW (FW0004)	C-F CS.21	NT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
555720	13LD1 LONGITUDINAL WELD	C-F CS.22	NT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
555740	13LD0 LONGITUDINAL WELD	C-F CS.22	NT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
555760	14LUI LONGITUDINAL WELD	C-F CS.22	NT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 3.5T OF WELD LENGTH.    **CS-5**



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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H		
		ITEM NO	METHOD	PROCEDURE	E O E		REMARKS		
.....					C M R		**CALIBRATION BLOCK**		
.....					- - -		.....		
<u>30-MS-2003-GA2 (FIG NO B-MS-5, 6)</u>									
555780	14LU0 LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.	
					X	-	-		
					X	-	-		
					X	-	-	**CS-5**	
555800	14 ELBOW TO PIPE (D-SW0002)	C-F CS.21	MT UTOL UT45 UT45*	300-1/33 600-41/14	X	-	-	ONE UTOL CODE ALLOWABLE INDICATION. SEE	
					-	-	X	CNF 027.	
					X	-	-		
					X	-	-	**CS-5**	
555820	14LD LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.	
					X	-	-		
					X	-	-		
					X	-	-	**CS-5**	
555840	15LU LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.	
					X	-	-		
					X	-	-		
					X	-	-	**CS-5**	
555860	15 PIPE TO ELBOW (FW0005)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	ONE UTOL CODE ALLOWABLE INDICATION. SEE	
					-	-	X	CNF 031.	
					X	-	-		
					X	-	-	**CS-5**	

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-	-	-
<u>30-MS-2003-GA2 (FIG NO B-MS-5, 6)</u>							
555880	15LD1	C-F	MT	300-1/33	X	-	-
	LONGITUDINAL WELD	C5.22	UTOL	600-41/14	-	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**CS-5**
555900	15LDO	C-F	MT	300-1/33	X	-	-
	LONGITUDINAL WELD	C5.22	UTOL	600-41/14	X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**CS-5**
555920	16LUI	C-F	MT	SEE REMARKS			
	LONGITUDINAL WELD	C5.22	UT				NOT SELECTED FOR EXAMINATION.
555940	16LUO	C-F	MT	SEE REMARKS			
	LONGITUDINAL WELD	C5.22	UT				NOT SELECTED FOR EXAMINATION.
555960	16	C-F	MT	SEE REMARKS			
	ELBOW TO PIPE	C5.21	UT				NOT SELECTED FOR EXAMINATION.
	(E-SW0003)						
555980	16LD	C-F	MT	SEE REMARKS			
	LONGITUDINAL WELD	C5.22	UT				NOT SELECTED FOR EXAMINATION.
556000	17LU	C-F	MT	SEE REMARKS			
	LONGITUDINAL WELD	C5.22	UT				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N O	
NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O G T	RE H
		CATGY	ITEM NO	METHOD	E O E	REMARKS
					C M R	**CALIBRATION BLOCK**
					- - -	
<u>30-MS-2003-GA2 (FIG NO B-MS-5, 6)</u>						
556020	17 PIPE TO PIPE (E-SW0006)	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
556040	17LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
556060	18LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
556065	18 PIPE TO PIPE (E-SW0002)	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
556070	18LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
556075	19LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
556080	19 PIPE TO ELBOW (FW0006)	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	
			ITEM NO	METHOD	PROCEDURE	R	E
						E	O
						R	E
						C	M
						R	**CALIBRATION BLOCK**
.....							
<u>30-MS-2003-GA2 (FIG NO B-MS-5, 6)</u>							
556100	19LD1 LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				
556120	19LDO LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				
556140	20LU1 LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				
556160	20LUO LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				
556180	20 ELBOW TO PIPE (F-SW0002)	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.21	UT				
556200	20LD LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				
556220	21LU LONGITUDINAL WELD	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.22	UT				

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N	O	REMARKS
					D	G	
					C	M	R
-----					*	*	**CALIBRATION BLOCK**
<u>30-MS-2003-0A2 (Flw NO 8-MS-5, 6)</u>							
556240 21 PIPE TO ELBOW (FW0007)	C-F	MT	UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
556260 21LD1 LONGITUDINAL WELD	C-F	MT	UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
556280 21LDO LONGITUDINAL WELD	C-F	MT	UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
556300 22LUI LONGITUDINAL WELD	C-F	MT	UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
556320 22LUO LONGITUDINAL WELD	C-F	MT	UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
556340 22 ELBOW TO PIPE (FW0007A)	C-F	MT	UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
556360 22LD LONGITUDINAL WELD	C-F	MT	UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

MAIN STEAM SYSTEM

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M O D			REMARKS
					E O E	C M R		
.....								
<u>30-MB-2003-GA2 (FIG NO B-MB-5, 6)</u>								
556380 23-LU LONGITUDINAL WELD	C-F CS.22	MT	UTOL UT45 UT45T	300-1/33 600-41/14	X - - - - X X - - X - -			EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI. THREE UTOL CODE ALLOWABLE INDICATIONS. SEE CNF 026. **CS-5**
556400 23 PIPE TO PENETRATION (FW0006)	C-F CS.21	MT	UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -			**CS-5**
556460 24 PIPE TO PIPE (FW0055)	C-F CS.21	MT	UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - - X - X - -			AUGMENTED PSI - BEZ  **CS-5**
556480 24LD LONGITUDINAL WELD	C-F CS.22	MT	UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -			EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.  **CS-33**
556500 25LU LONGITUDINAL WELD	C-F CS.22	MT	UTOL UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -			EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.  **CS-33**



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		SEC. XI	CATGY			O G T	R E H	E O E	
.....	.....	ITEM NO				.....	.....	.....	.....
<u>30-MS-2003-GA2 (FIG NO B-MS-5, 6)</u>									
556548	27LU LONGITUDINAL WELD	C-F CS.22	WT UTOL	UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.   **CS-35**
556550	27 PIPE TO PIPE	C-F CS.21	WT UTOL	UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	-	-	AUGMENTED PSI - BEZ   **CS-35**
556552	27LD LONGITUDINAL WELD	C-F CS.22	WT UTOL	UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.   **CS-35**
556560	28LU LONGITUDINAL WELD	C-F CS.22	WT UTOL	UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.   **CS-35**
556580	28 PIPE TO VALVE (FW0057)	C-F CS.21	WT UTOL	UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	-	-	AUGMENTED PSI - BEZ   **CS-35**



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		S2C. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		
-----										
<u>30-MS-2003-GA2 (FIG NO B-MS-5, 6)</u>										
556600	29 VALVE TO PIPE (FW0058)	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ. ONE UTOL CODE		
					-	-	X	ALLOWABLE INDICATION. SEE CNF 077.		
					-	X	-			
					X	-	-	**CS-5**		
556620	29LD LONGITUDINAL WELD	C-F CS 22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED		
					X	-	-	PSI.		
					X	-	-			
					X	-	-	**CS-34**		
556630	29PL1-29PL8 PIPE LUGS	C-C C3.20	MT UTOL UTOM UT45 UT45T	300-1/33 800-119/1	X	-	-	AUGMENTED PSI - BEZ. ONE UT45, ONE		
					-	-	X	UTOL, AND TWO UT45 CODE ALLOWABLE		
					X	-	-	INDICATIONS ON LUGS 29PL1, 29PL4, AND		
					-	-	X	29PL3 RESPECTIVELY. SEE CNF'S 082, 093,		
					X	-	-	AND 103. LIMITED UT AND MT COVERAGE DUE		
								TO PIPE LUG CONFIGURATION. SEE APPENDIX		
								L OF THIS REPORT.		
								**CS-34**		
556640	30LU LONGITUDINAL WELD	C-F CS.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH PER SECTION		
					X	-	-	XI AND REMAINING WELD LENGTH PER		
					X	-	-	AUGMENTED PSI. LIMITED MT, UT45, AND		
					X	-	-	UT45T DUE TO PROXIMITY OF PERMANENT PIPE		
								SUPPORT. SEE APPENDIX L OF THIS REPORT.		
								**CS-34**		
556660	30 PIPE TO PIPE	C-F CS.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-			
					X	-	-			
					X	-	-			
					X	-	-	**CS-33**		

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T				
		ITEM NO	METHOD	PROCEDURE	R E H				
					E O E		REMARKS		
					C M R		**CALIBRATION BLOCK**		
-----		-----		-----		-----		-----	
<u>30-MS-2003-GA2 (FIG NO B-MS-5, 6)</u>									
556680	30LD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - - X -	- - - - - - - -	EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI. LIMITED MT, UT45 AND UT45T DUE TO PROXIMITY OF PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT. **CS-34**		
556690	30PL1-30PL2 PIPE LUGS	-- --	UT0L UT45	800-119/1	X - - - X -	- - - -	AUGMENTED PSI - BEZ. LIMITED UT COVERAGE DUE TO PIPE LUG CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CS-2 CS-33**		
556700	31LU LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - - X -	- - - - - - - -	OBTAINED 100% OF WELD LENGTH. AUGMENTED PSI. LIMITED MT, UT45, AND UT45T DUE TO PROXIMITY OF PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT. **CS-34**		
556720	31 PIPE TO PIPE (FW0059)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - - - X - X - X - -	- - - - - - - -	AUGMENTED PSI - BEZ. ONE UT0L CODE ALLOWABLE INDICATION. SEE CNF 065.  **CS-5**		
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>									
557120	1 NOZZLE TO REDUCER (FW0001)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	- - - - - - - -	   **CS-74**		

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>								
557140	1LD	C-F	MT	300-1/33	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.22	UT0L	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-74**
557180	2LU	C-F	MT	300-1/33	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.22	UT0L	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-5**
557220	2	C-F	MT	300-1/33	X	-	-	
	REDUCER TO PIPE	C5.21	UT0L	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-5**
557240	2LD	C-F	MT	300-1/33	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.22	UT0L	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-5**
557260	3LU	C-F	MT	300-1/33	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.22	UT0L	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-5**



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NUMBER IDENTIFICATION		SEC. XI	METHOD		O	G	
		CATGY			R	E	
		ITEM NO			E	O	
					C	M	
					R		
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>							
557380	4	C-F	MT	300-1/33	X	-	
	ELBOW TO PIPE	C5.21	UT0L	600-41/14	X	-	
	(FW0061)		UT45		X	-	
			UT45T		X	-	**CS-5**
557400	4LD	C-F	MT	300-1/33	X	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.22	U:0L	600-41/14	X	-	
			UT45		X	-	
			UT45T		X	-	**CS-5**
557420	5LU	C-F	MT	300-1/33	X	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.22	UT0L	600-41/14	X	-	
			UT45		X	-	
			UT45T		X	-	**CS-5**
557440	5	C-F	MT	300-1/33	X	-	
	PIPE TO ELBOW	C5.21	UT0L	600-41/14	X	-	
	(AA-SW0003)		UT45		X	-	
			UT45T		X	-	**CS-5**
557460	5LD1	C-F	MT	300-1/33	X	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.22	UT0L	600-41/14	X	-	
			UT45		X	-	
			UT45T		X	-	**CS-5**

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		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>								
557480	5LDO LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
557500	6LUI LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.  - X -  **CS-5**
557520	6LUO LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
557540	6 ELBOW TO PIPE (AA-SW0002)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**
557560	6LD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 2.5T OF WELD LENGTH.    **CS-5**

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		SEC. XI CATGY	ITEM NO			C M R	**CALIBRATION BLOCK**		
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>									
557580	7LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
557600	7 PIPE TO PIPE (AA-SW0009)	C-F C5.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
557620	7LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
557640	8LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
557660	8 PIPE TO PIPE (FW0002)	C-F C5.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
557680	8LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
557700	9LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.

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				O G T	R E H	E O E	
				C	M	R	**CALIBRATION BLOCK**

30-MS-2004-GA2 (FIG NO P-MS-7, B)

557720 9 PIPE TO ELBOW (B-SW0002)	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
557740 9L01 LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
557760 9L00 LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
557780 10LUI LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
557800 10LU0 LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
557820 10 ELBOW TO PIPE (FW0003)	C-F C5.21	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
557840 10LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.



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		SEC. XI CATGY	ITEM NO			
						N O O G T R E H E O E C M R - - -
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>						
557860	11LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
557880	11 PIPE TO PIPE (C-SW0002)	C-F C5.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
557900	11LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
557920	12LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
557925	12 PIPE TO PIPE (C-SW0003)	C-F C5.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
557930	12LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
557935	13LU LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	K	R
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>							
557940	13 PIPE TO ELBOW (FW0004)	C-F C5.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
557960	13LDI LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
557980	13LDO LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
558000	14LUI LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
558020	14LUD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
558040	14 ELBOW TO PIPE	C-F C5.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
558060	14LD LONGITUDINAL WELD	C-F C5.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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		SEC. XI	CATGY			C M R	**CALIBRATION BLOCK**		
NUMBER	IDENTIFICATION	ITEM NO	METHOD						
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>									
558080	15LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558100	15 PIPE TO ELBOW (FW0005)	C-F CS.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558120	15LDI LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558140	15LDO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558160	16LUI LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558180	16LUD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558200	16 ELBOW TO PIPE (E-SWC002)	C-F CS.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					-	-	-
							REMARKS
							**CALIBRATION BLOCK**
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>							
558220	16LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
558240	17LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
558260	17 PIPE TO PIPE (E-SW0003)	C-F CS.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
558280	17LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
558360	18LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
558380	18 PIPE TO ELBOW (FW0006)	C-F CS.21	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
558400	18LD1 LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC: XI	CATGY	EXAM	O	G
		ITEM NO	METHOD	PROCEDURE	R	E
					H	
					E	O
					E	E
					C	M
					R	
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>						
558420	18LD0 LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
558440	19LUI LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
558460	19LU0 LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
558480	19 ELBOW TO PIPE (F-SW0002)	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
558500	19LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
558520	20LU LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
558540	20 PIPE TO ELBOW (FW0007)	C-F CS.21	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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		SEC. XI	CATGY			O G T	R E H	E O E	
NUMBER	IDENTIFICATION	ITEM NO				C M R			**CALIBRATION BLOCK**
-----									
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>									
558560	20LD1 LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558580	20LDO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558600	21LU1 LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558620	21LUO LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558640	21 ELBOW TO PIPE (FW0007A)	C-F CS.21	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558660	21LD LONGITUDINAL WELD	C-F CS.22	MT UT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
558680	22LU LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14		X - - - - X X - - X - -			EXAMINE 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI, FOUR UTOL CODE ALLOWABLE INDICATIONS. SEE CNF 032. **CS-5**

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NUMBFR	IDENTIFICATION	SEC. XI CATGY	ITEM NO	METHCD		**CALIBRATION BLOCK**
<u>30-MS-2004-GA2 (FIG NO 8-MS-7, 8)</u>						
558700	22	C-F	MT	300-1/33	X - -	
	PIPE TO PENETRATION	C5.21	UTOL	600-41/14	X - -	
	(FW0008)		UT45		X - -	
			UT45T		X - -	**CS-5**
558760	23	C-F	MT	300-1/33	X - -	AUGMENTED PSI - BEZ
	PIPE TO PIPE	C5.21	UTOL	600-41/14	X - -	
	(FW0055)		UT45		- X -	
			UT45T		X - -	**CS-5**
558780	23LD	C-F	MT	300-1/33	X - -	EXAMINED 100% OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	C5.22	UTOL	600-41/14	X - -	PSI.
			UT45		X - -	
			UT45T		X - -	**CS-33**
558800	24LU	C-F	MT	300-1/33	X - -	EXAMINED 100% OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	C5.22	UTOL	600-41/14	X - -	PSI.
			UT45		X - -	
			UT45T		X - -	**CS-33**
558820	24	C-F	MT	300-1/33	X - -	AUGMENTED PSI - BEZ
	PIPE TO PIPE	C5.21	UTOL	600-41/14	X - -	
	(FW0056)		UT45		X - -	
			UT45T		X - -	**CS-33**

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		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----								
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>								
558840	24LD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.  **CS-35**
558842	25LU LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.  **CS-35**
558844	25 PIPE TO PIPE	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ   **CS-35**
558846	25LD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.  **CS-35**
558848	26LU LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.  **CS-35**



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NUMBER	IDENTIFICATION	CATGY	ITEM NO	METHOD		
-----						
<u>30-MS-2004-GA2 (FIG NO B-RS-7, 8)</u>						
558850	26 PIPE TO PIPE	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	AUGMENTED PSI - BEZ    **CS-35**
558852	26LD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.   **CS-35**
558860	27LU LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.   **CS-35**
558880	27 PIPE TO VALVE (FW0057)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - - X - X - -	AUGMENTED PSI - BEZ    **CS-5**
558900	28 VALVE TO PIPE (FW0058)	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	AUGMENTED PSI - BEZ    **CS-5**

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>							
558920	28LD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI.		
					**CS-34**		
558925	28PL1-28PL8 PIPE LUGS	C-C C3.20	MT UT0L UT0W UT45 UT45T	300-1/33 800-119/1	-	-	X
					AUGMENTED PSI - BEZ. ONE LINEAR MT INDICATION ON LUG 29PL8. SEE CNF'S 057 AND 072. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS. SEE CNF'S 083 AND 084 FOR UT CODE ALLOWABLE INDICATIONS ON LUGS 28PL3 AND 28PL4.		
					**CS-34**		
558940	29LU LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI. LIMITED UT45 DUE TO PROXIMITY OF PIPE LUGS. SEE APPENDIX L OF THIS REPORT.		
					**CS-34**		
558960	29 PIPE TO PIPE	C-F CS.21	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					**CS-33**		
558980	29LD LONGITUDINAL WELD	C-F CS.22	MT UT0L UT45 UT45T	300-1/33 600-41/14	X	-	-
					EXAMINED 2.5T OF WELD LENGTH PER SECTION XI AND REMAINING WELD LENGTH PER AUGMENTED PSI. LIMITED MT, UT45 AND UT45T DUE TO PROXIMITY OF PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT.		
					**CS-34**		

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-----								**CALIBRATION BLOCK**
-----								
<u>30-MS-2004-GA2 (FIG NO B-MS-7, 8)</u>								
558990	29PL1-29PL2 PIPE LUGS	--	UTOL UT45	800-119/1	X	-	-	AUGMENTED PSI - BEZ. LIMITED UT COVERAGE DUE TO PIPE LUG CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **CS-2 CS-33**
559000	30LU LONGITUDINAL WELD	C-F C5.22	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	EXAMINED 100% OF WELD LENGTH. AUGMENTED PSI. LIMITED MT, UT45, AND UT45T DUE TO PROXIMITY OF PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT. **CS-34**
559020	30 PIPE TO PIPE (FW0059)	C-F C5.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ X - - - X - X - - **CS-5**
<u>16-MS-2001-GA2 (FIG NO B-MS-2)</u>								
559520	1 EXTRUSION TO PIPE	C-F C5.21	MT UTOL UT45 UT45T UT60	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ. ONE UT45 AND UT60 CODE ALLOWABLE INDICATION. SEE CNF 068. - - X X - - - - X **CS-15**
559530	2 PIPE TO PIPE	C-F C5.21	MT UTOL UT45 UT45T	300-1/33 600-41/14	X	-	-	AUGMENTED PSI - BEZ X - - X - - X - - **CS-15**



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	METHOD	PROCEDURE	C M R	
-----							
<u>16-MS-2004-GA2 (FIG NO B-MS-8)</u>							
561080	1	C-F	MT	300-1/33	300-1/33	X - -	AUGMENTED PSI - BEZ
	EXTRUSION TO PIPE	C5.21	UTOL	600-41/14	600-41/14	X - -	
			UT45			X - -	
			UT45T			X - -	**CS-15**
561100	2	C-F	MT	300-1/33	300-1/33	X - -	
	PIPE TO WELD CAP	C5.21	UTOL	600-41/14	600-41/14	X - -	
			UT45			- X -	
			UT45T			X - -	**CS-15**
<u>12-MS-2103-GA2 (FIG NO B-MS-9)</u>							
561590	1	C-F	MT	300-1/33	300-1/33	X - -	
	EXTRUSION TO PIPE	C5.21	UTOL	600-41/14	600-41/14	X - -	
	(FW0005)		UT45			X - -	
			UT45T			X - -	
561620	2	C-F	MT	SEE REMARKS	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW	C5.21	UT				**CS-14**
561640	3	C-F	MT	SEE REMARKS	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
	ELBOW TO PIPE	C5.21	UT				
561660	4	C-F	MT	SEE REMARKS	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
	PIPE TO REDUCER	C5.21	UT				

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					C	M	R	

12-MS-2104-GA2 (FIG NO B-MS-10)

562150 1	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
EXTRUSION TO PIPE (FW0001)	C5.21	UT						

562180 2	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
PIPE TO ELBOW	C5.21	UT						

562200 3	C-F	MT		300-1/33	X	-	-	**CS-14**
ELBOW TO PIPE	C5.21	UTOL		600-41/14	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	

562220 4	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
PIPE TO REDUCER	C5.21	UT						

12-MS-2105-GA2 (FIG NO B-MS-11)

562710 1	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
EXTRUSION TO PIPE (FW0005)	C5.21	UT						

562740 2	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
PIPE TO ELBOW	C5.21	UT						

562760 3	C-F	MT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
ELBOW TO PIPE	C5.21	UT						

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-----						
**CALIBRATION BLOCK**						
-----						

12-MS-2105-GA2 (FIG NO 8-MS-11)

562780 4	C-F	MT	300-1/33	X	-	-	
PIPE TO REDUCER	C5.21	UT0L	600-41/14	X	-	-	
		UT45		-	X	-	
		UT45T		X	-	-	**CS-14**

12-MS-2106-GA2 (FIG NO 8-MS-12)

563270 1	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
EXTRUSION TO PIPE (FW0001)	C5.21	UT					
563300 2	C-F	MT	300-1/33	X	-	-	
PIPE TO ELBOW	C5.21	UT0L	600-41/14	X	-	-	
		UT45		X	-	-	
		UT45T		X	-	-	**CS-14**

563320 3	C-F	MT	SEE REMARKS				NOT SELECTED FOR EX/MINATION.
ELBOW TO PIPE	C5.21	UT					

563340 4	C-F	MT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
PIPE TO REDUCER	C5.21	UT					

8-MS-2103-GA2 (FIG NO 8-MS-9)

563840 1	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - OPTIONAL W83 BASELINE.
REDUCER TO PIPE	C5.11	UT0L	600-41/14	X	-	-	
		UT45		-	X	-	
		UT45T		X	-	-	**CS-2**

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				C	M	R	
-----							
<u>B-MS-2103-GA2 (FIG NO B-MS-9)</u>							
563860 2 PIPE TO ELBOW	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
563880 3 ELBOW TO PIPE	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
563900 4 PIPE TO VALVE (FW0006)	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
563920 5 VALVE TO PIPE (FW0007)	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
563940 6 PIPE TO ELBOW (FS1788)	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
563960 7 ELBOW TO PIPE	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
563980 8 PIPE TO VALVE (FW0008)	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.



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				C	M	R	
<u>B-MS-2104-GA2 (FIG NO B-MS-10)</u>							
564480 1 REDUCER TO PIPE	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
564500 2 PIPE TO ELBOW	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
564520 3 ELBOW TO PIPE	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
564540 4 PIPE TO VALVE (FW0002)	C-F CS.11	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - - X - X - -			AUGMENTED PSI - OPTIONAL WES BASELINE.    **CS-2**
564560 5 VALVE TO PIPE (FW0003)	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
564580 6 PIPE TO ELBOW	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
564600 7 ELBOW TO PIPE	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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<u>8-MS-2104-GA2 (FIG NO B-MS-10)</u>					
564620 8 PIPE TO VALVE (FW0004)	C-F CS.11	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
<u>8-MS-2105-GA2 (FIG NO B-MS-11)</u>					
565120 1 REDUCER TO PIPE	C-F CS.11	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
565140 2 PIPE TO ELBOW	C-F CS.11	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
565160 3 ELBOW TO PIPE	C-F CS.11	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
565180 4 PIPE TO VALVE (FW0006)	C-F CS.11	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
565200 5 VALVE TO PIPE (FW0007)	C-F CS.11	MT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
565220 6 PIPE TO ELBOW	C-F CS.11	MT UT0L UT45 UT45T	300-1/33 600-41/14	X - - X - - X - - X - -	AUGMENTED PSI - OPTIONAL W83 BASELINE.    **CV-2**

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	M O G T R E H E O E R			REMARKS
				C	M	R	
-----							
<u>B-MS-2105-GA2 (FIG NO B-MS-11)</u>							
565240 7 ELBOW TO PIPE	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
565260 8 PIPE TO VALVE (FW0008)	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
<u>B-MS-2106-GA2 (FIG NO B-MS-12)</u>							
565760 1 REDUCER TO PIPE	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
565780 2 PIPE TO ELBOW	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
565800 3 ELBOW TO PIPE	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
565820 4 PIPE TO VALVE (FW0006)	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
565840 5 VALVE TO PIPE (FW0007)	C-F CS.11	MT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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					C	G		T
					C <td>M <td>R</td> <td>**CALIBRATION CHECK**</td> </td>	M <td>R</td> <td>**CALIBRATION CHECK**</td>	R	**CALIBRATION CHECK**

8-MS-2106-GA2 (FIG NO 8-MS-12)

565860	6	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW	C5.11	UT				
565880	7	C-F	MT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	ELBOW TO PIPE	C5.11	UT				
565900	8	C-F	MT	SJO-1/33	X	-	AUGMENTED PSI - OPTIONAL W83 BASELINE.
	PIPE TO VALVE	C5.11	UT0L	600-41/14	X	-	
	(FW0008)		UT45		X	-	
			UT45T		X	-	**CS-2**

6-MS-2001-GA2(A) (FIG NO 8-MS-2)

566400	1	C-F	MT	300-1/33	X	-	
	EXTRUSION TO FLANGE	C5.11	UT0L	600-41/14	X	-	
			UT45		X	-	
			UT45T		X	-	**CS-75**

6-MS-2001-GA2(B) (FIG NO 8-MS-2)

566500	1	C-F	MT	300-1/33	X	-	AUGMENTED PSI - BEZ
	EXTRUSION TO FLANGE	C5.11	UT0L	600-41/14	X	-	
			UT45		X	-	
			UT45T		X	-	**CS-75**

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SUMMARY EXAMINATION AREA				N	O	REMARKS
NUMBER	IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO METHOD PROCEDURE	O	G	
				R	E	
				H		
				E	O	**CALIBRATION BLOCK**
				C	M	
				R		

4-MS-2001-GA2(C) (FIG NO B-MS-2)

566600	1	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ
	EXTRUSION TO FLANGE	CS.11	UT0L	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	

\*\*CS-75\*\*

6-MS-2001-GA2(D) (FIG NO B-MS-2)

566700	1	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ
	EXTRUSION TO FLANGE	CS.11	UT0L	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	

\*\*CS-75\*\*

6-MS-2001-GA2(E) (FIG NO B-MS-2)

566800	1	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ
	EXTRUSION TO FLANGE	CS.11	UT0L	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	

\*\*CS-75\*\*

6-MS-2002-GA2(A) (FIG NO B-MS-4)

566900	1	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ
	EXTRUSION TO FLANGE	CS.11	UT0L	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	

\*\*CS-75\*\*

6-MS-2002-GA2(B) (FIG NO B-MS-4)

567000	1	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ
	EXTRUSION TO FLANGE	CS.11	UT0L	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	

\*\*CS-75\*\*

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					E O E	C M R	**CALIBRATION BLOCK**	

6-MS-2002-GA2(C) (FIG NO B-MS-4)

567100 1	C-F	MT		300-1/33	X	-	-	AUGMENTED PSI - BEZ
EXTRUSION TO FLANGE	C <sup>5</sup> .11	UTOL		600-41/14	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	**CS-75**

6-MS-2002-GA2(D) (FIG NO B-MS-4)

567200 1	C-F	MT		300-1/33	X	-	-	AUGMENTED PSI - BEZ
EXTRUSION TO FLANGE	C5.11	UTOL		600-41/14	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	**CS-75**

6-MS-2002-GA2(E) (FIG NO B-MS-4)

567300 1	C-F	MT		300-1/33	X	-	-	AUGMENTED PSI - BEZ
EXTRUSION TO FLANGE	C5.11	UTOL		600-41/14	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	**CS-75**

6-MS-2003-GA2(A) (FIG NO B-MS-6)

567400 1	C-F	MT		300-1/33	X	-	-	AUGMENTED PSI - BEZ
EXTRUSION TO FLANGE	C5.11	UTOL		600-41/14	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	**CS-75**

6-MS-2003-GA2(B) (FIG NO B-MS-6)

567500 1	C-F	MT		300-1/33	X	-	-	AUGMENTED PSI - BEZ
EXTRUSION TO FLANGE	C5.11	UTOL		600-41/14	X	-	-	
		UT45			X	-	-	
		UT45T			X	-	-	**CS-75**

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					E	G	
					C <td>M <td>**CALIBRATION BLOCK**</td> </td>	M <td>**CALIBRATION BLOCK**</td>	**CALIBRATION BLOCK**
					R <td></td> <td></td>		
					E <td>O <td></td> </td>	O <td></td>	
					E <td></td> <td></td>		

6-MS-2003-GA2(C) (FIG NO B-MS-6)

567600 1	C-F	MT		300-1/33	X	-	
EXTRUSION TO FLANGE	C5.11	UTOL		600-41/14	X	-	
		UT45			X	-	
		UT45T			X	-	**CS-75**

6-MS-2003-GA2(D) (FIG NO B-MS-6)

567700 1	C-F	MT		300-1/33	X	-	AUGMENTED PSI - BEZ
EXTRUSION TO FLANGE	C5.11	UTOL		600-41/14	X	-	
		UT45			X	-	
		UT45T			X	-	**CS-75**

6-MS-2003-GA2(E) (FIG NO B-MS-6)

567800 1	C-F	MT		300-1/33	X	-	AUGMENTED PSI - BEZ
EXTRUSION TO FLANGE	C5.11	UTOL		600-41/14	X	-	
		UT45			X	-	
		UT45T			X	-	**CS-75**

6-MS-2004-GA2(A) (FIG NO B-MS-8)

567900 1	C-F	MT		300-1/33	X	-	AUGMENTED PSI - BEZ
EXTRUSION TO FLANGE	C5.11	UTOL		600-41/14	X	-	
		UT45			X	-	
		UT45T			X	-	**CS-75**

6-MS-2004-GA2(B) (FIG NO B-MS-8)

568000 1	C-F	MT		300-1/33	X	-	AUGMENTED PSI - BEZ
EXTRUSION TO FLANGE	C5.11	UTOL		600-41/14	X	-	
		UT45			X	-	
		UT45T			X	-	**CS-75**

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SUMMARY EXAMINATION AREA				W	O	REMARKS
ASME				O	G	
SEC. XI				R	E	
NUMBER	IDENTIFICATION	CATGY	EXAM	E	O	
		ITEM NO	METHOD	PROCEDURE	C	M
				R		**CALIBRATION BLOCK**
-----				-	-	-----

6-MS-2004-GA2(C) (FIG NO B-MS-8)

568100	1	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ
	EXTRUSION TO FLANGE	C5.11	UTOL	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-75**

6-MS-2004-GA2(D) (FIG NO B-MS-8)

568200	1	C-F	MT	300-1/33	X	-	-	AUGMENTED PSI - BEZ
	EXTRUSION TO FLANGE	C5.11	UTOL	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-75**

6-MS-2004-GA2(E) (FIG NO B-MS-8)

568300	1	C-F	MT	300-1/33	X	-	-	
	EXTRUSION TO FLANGE	C5.11	UTOL	600-41/14	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	**CS-75**



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					E O E	C M R	
-----							
<u>14-RH-2102-KB2 (FIG NO B-RH-1)</u>							
600000	1LU LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 600-31/19	X - - X - - X - - X - -	- -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-29**
600040	1 REDUCER TO PIPE (C-SW0006)	C-F C5.11	PT UTOL UT45 UT45T	200-1/69 600-31/19	X - - X - - X - - X - -	- -	AUGMENTED PSI - VOLUMETRIC SAMPLE.  **SS-29**
600060	1LD LONGITUDINAL WELD	C-F C5.12	T UTOL UT45 UT45T	200-1/69 600-31/19	X - - X - - X - - X - -	- -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-29**
600080	2LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
600100	2 PIPE TO FLANGE (FS5422)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
<u>14-RH-2202-KB2 (FIG NO B-RH-2)</u>							
600600	1LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM		O	G T
		ITEM NO	METHOD	PROCEDURE		R	E H
						E	O E
						C	M R
							REMARKS
							**CALIBRATION BLOCK**
<u>14-RH-2202-KB2 (FIG NO B-RH-2)</u>							
600640	* REDUCER TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
600660	1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
600680	2LU LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 600-31/19	X - - X - - X - - X - -		EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-29**
600700	2 PIPE TO FLANGE (FS5423)	C-F CS.11	PT UT0L UT0W UT45 UT45T	200-1/69 600-31/19	X - - X - - X - - X - - X - -		AUGMENTED PSI - VOLUMETRIC SAMPLE. NO UT45T ON THE FLANGE SIDE DUE TO FLANGE CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-29**
<u>14-RH-2302-KB2 (FIG NO B-RH-4)</u>							
601200	1LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
601240	1 REDUCER TO PIPE (D-SW0008)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	R	E
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**

14-RH-2302-KB2 (FIG NO B-RH-4)

601260	1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
601280	2LU LONGITUDINAL	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
601300	2 PIPE TO FLANG (F55294)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

12-RH-2102-KB2 (FIG NO B-RH-1)

601800	1 VALVE TO PIPE (FW0001)	C-F CS.21	PT	200-1/69 800-114/2	X	-	-	
			UT0L		X	-	-	
			UT0W		X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-20**
601820	2 PIPE TO PIPE	C-F CS.11	PT	200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
			UT0L		X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-13**
601840	3 PIPE TO ELBOW (FW0002)	C-F CS.11	PT	200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
			UT0L		X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-13**

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	L	O	E	**CALIBRATION CLOCK**
-----		-----	-----	-----	C	M	R	-----
					-	-	-	
<u>12-RH-2102-KB2 (FIG NO B-RH-1)</u>								
601860	3LD LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.
					X	-	-	**SS-13**
					X	-	-	
					X	-	-	
601900	4LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
601940	4 ELBOW TO FLANGE	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
601950	5 FLANGE TO PIPE	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
601980	6 PIPE TO ELBOW	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
602000	6LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
602040	7LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

12-RH-2102-KB2 (FIG NO B-RH-1)

602080	7 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
602100	8 PIPE TO REDUCER	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
602120	8LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

12-RH-2103-KB2 (FIG NO B-RH-6)

602720	1LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69 800-36/37	X - - X - - X - - X - -		EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-13**
602760	1 REDUCER TO PIPE (H-SW0004)	C-F CS.11	PT	200-1/69 800-36/37	X - - X - - X - - X - -		AUGMENTED PSI - VOLUMETRIC SAMPLE.  **SS-13**
602780	2 PIPE TO ELBOW (H-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
			ITEM NO	METHOD	PROCEDURE	E	O	E
						C	M	R
							REMARKS	
							**CALIBRATION BLOCK**	

12-RH-2103-KB2 (FIG NO B-RH-6)

602800 2LD LONGITUDINAL WELD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 C5.12

602840 3LU LONGITUDINAL WELD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 C5.12

602880 3 ELBOW TO PIPE C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 (H-SW0002) C5.11

602900 4 PIPE TO NOZZLE C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 (FW0012) C5.11

12-RH-2104-KB2 (FIG NO B-RH-7)

603400 1 NOZZLE TO PIPE C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 (FW0001) C5.11

603420 2 PIPE TO ELBOW C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 (A-SW0002) C5.11

603440 2LD LONGITUDINAL WELD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 C5.12

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SUMMARY EXAMINATION AREA		A/ME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
.....		ITEM NO	METHOD	PROCEDURE	R	E	H	
					E	O	E	
					C	M	R	
					-	-	-	
							REMARKS	
							**CALIBRATION BLOCK**	
							.....	
<u>12-RH-2104-KB2 (FIG NO B-RH-7)</u>								
603480	3LU LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 600-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.
					X	-	-	
					X	-	-	
					X	-	-	**SS-13**
603520	3 ELBOW TO PIPE (A-SW0003)	C-F C5.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
					X	-	-	
					X	-	-	
					X	-	-	**SS-13**
603530	4 PIPE TO PIPE (FW1753)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
603540	5 PIPE TO REDUCER (A-SW0004)	C-F C5.11	PT UT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
								**SS-13**
603560	5LD LONGITUDINAL WELD	C-F C5.12	PT UT	SEE REAMRKS				NOT SELECTED FOR EXAMINATION.
								**SS-13**
<u>12-RH-2202-KB2 (FIG NO B-RH-2)</u>								
604100	1 VALVE TO PIPE (FW0001)	C-F C5.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T	
NUMBER	IDENTIFICATION	CATGY	EXAM	PROCEDURE	E	O	E	REMARKS
		ITEM NO	METHOD		C	M	R	**CALIBRATION BLOCK**
-----								
<u>12-RH-2202-KB2 (FIG NO B-RH-2)</u>								
604120	2 PIPE TO PIPE (FW5002)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
604140	3 PIPE TO ELBOW (FW0002)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
604160	3LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
604200	4LU LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-13**
604240	4 ELBOW TO FLANGE	C-F C5.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE. NO UT45T ON THE FLANGE SIDE DUE TO FLANGE CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-13**
604260	5 FLANGE TO PIPE	C-F C5.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE. NO UT45T ON THE FLANGE SIDE DUE TO FLANGE CONFIGURATION.  **SS-13**



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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E O E		REMARKS	
					C H R		**CALIBRATION BLOC**	
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12-RH-2202-KB2 (FIG NO B-RH-2)

604280	6	C-F	PT	200-1/69	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
	PIPE TO ELBOW	C5.11	UTOL	800-36/37	X	-	-	
			UT45		X	-	-	
			UT45T		X	-	-	
								**SS-13**

604300	6LE	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	C5.12	UTOL	800-36/37	X	-	-	PSI.
			UT45		X	-	-	
			UT45T		X	-	-	
								**SS-13**

604360	7LU	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12						

604380	7	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	ELBOW TO PIPE	C5.11						

604400	8	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	PIPE TO REDUCER	C5.11						

604420	8LD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12						

12-RH-2203-KB2 (FIG NO B-RH-8)

604940	1LU	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12						

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		SEC. XI			O	G	T		
		CATGY	EXAM			R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS	
.....		.....		.....		C	M	R	**CALIBRATION BLOCK**
.....		.....		.....		.....			
<u>12-RH-2203-KB2 (FIG NO B-RH-8)</u>									
604980	1 REDUCER TO PIPE (H-SW0004)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.	
605000	2 PIPE TO ELBOW (H-SW0003)	C-F CS.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - - X - X - -			AUGMENTED PSI - VOLUMETRIC SAMPLE.   **SS-13**	
605020	2LD LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -			EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-13**	
605060	3LU LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -			EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-13**	
605100	3 ELBOW TO PIPE (H-SW0002)	C-F CS.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - - X - X - -			AUGMENTED PSI - VOLUMETRIC SAMPLE.   **SS-13**	
605120	4 PIPE TO NOZZLE (FW0013)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.	

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H		
		ITEM NO	METHOD	PROCEDURE	E O C		REMARKS		
.....		.....	.....	.....	C M R		**CALIBRATION BLOCK**		
.....		.....	.....	.....	. . .		.....		
<u>12-RH-2215-KB2 (FIG NO B-RH-9)</u>									
605620	1	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
	NOZZLE TO PIPE (FW0001)	C5.11							
605640	2	C-F	PT	200-1/69	X	-	-		AUGMENTED PSI - VOLUMETRIC SAMPLE.
	PIPE TO ELBOW (A-SW0002)	C5.11	UTOL	800-36/37	X	-	-		
			UT45		-	X	-		
			UT45T		X	-	-		**SS-13**
605660	2LD	C-F	PT	200-1/69	X	-	-		EXAMINED 2.5T OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	C5.12	UTOL	800-36/37	X	-	-		PSI.
			UT45		X	-	-		
			UT45T		X	-	-		**SS-13**
605700	3LU	C-F	PT	200-1/69	X	-	-		EXAMINED 2.5T OF WELD LENGTH. AUGMENTED
	LONGITUDINAL WELD	C5.12	UTOL	800-36/37	X	-	-		PSI.
			UT45		X	-	-		
			UT45T		X	-	-		**SS-13**
605740	3	C-F	PT	200-1/69	X	-	-		AUGMENTED PSI - VOLUMETRIC SAMPLE.
	ELBOW TO PIPE (A-SW0003)	C5.11	UTOL	800-36/37	X	-	-		
			UT45		-	X	-		
			UT45T		X	-	-		**SS-13**
605760	4	C-F	PT	200-1/69	X	-	-		AUGMENTED PSI - VOLUMETRIC SAMPLE.
	PIPE TO REDUCER (A-SW0004)	C5.11	UTOL	800-36/37	X	-	-		
			UT45		X	-	-		
			UT45T		X	-	-		**SS-13**

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NUMBER	IDENTIFICATION	SEC. XI	METHOD		O	G	
		CATGY			R	E	
		ITEM NO			E	O	**CALIBRATION BLOCK**
					C	M	
					-	-	
<u>12-RH-2215-KB2 (FIG NO B-RH-9)</u>							
605780	4LD LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-13**
<u>12-RH-2302-KB2 (FIG NO B-RH-4)</u>							
606300	1 VALVE TO PIPE (FW0001)	C-F CS.21	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
606320	2 PIPE TO ELBOW (A-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
606340	2LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
606380	3LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
606420	3 ELBOW TO PIPE (A-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
606460	4 PIPE TO PIPE (FW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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					E	O	E	
					C	M	R	**CALIBRATION BLOCK**
<u>12-RH-2302-KB2 (FIG NO B-RH-4)</u>								
606480 5 PIPE TO PIPE (B-SW0004)	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
606500 6 PIPE TO ELBOW (B-SW0002)	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
606520 6LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
606560 7LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
606600 7 ELBOW TO PIPE (FW0005)	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
606620 8 PIPE TO FLANGE (C-SW0002)	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
606640 9 FLANGE TO PIPE (D-SW0002)	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>12-RH-2302-KB2 (FIG NO B-RH-4)</u>							
606660	10 PIPE TO ELBOW (D-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
606670	10LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
606680	11LU LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -		EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-13**
606760	11 ELBOW TO PIPE (D-SW0004)	C-F CS.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - - X - X - -		AUGMENTED PSI - VOLUMETRIC SAMPLE.  **SS-13**
606780	12 PIPE TO ELBOW (D-SW0005)	C-F CS.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - - X - X - -		AUGMENTED PSI - VOLUMETRIC SAMPLE.  **SS-13**
606800	12LD LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -		EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-13**

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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
-----		-----		-----	C	M	R	**CALIBRATION BLOCK**
-----		-----		-----	-	-	-	-----
<u>12-RH-2302-KB2 (FIG NO B-RH-4)</u>								
606840	13LU LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X X X X	- - - -	- - - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.   **SS-13**
606880	13 ELBOW TO PIPE (D-SW0006)	C-F C5.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X X - X	- - X -	- - - -	AUGMENTED PSI - VOLUMETRIC SAMPLE.   **SS-13**
606900	14 PIPE TO REDUCER (D-SW0007)	C-F C5.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X X X X	- - - -	- - - -	AUGMENTED PSI - VOLUMETRIC SAMPLE.   **SS-13**
606920	14LD LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X X X X	- - - -	- - - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.   **SS-13**
<u>12-RH-2303-KB2 (FIG NO B-RH-10)</u>								
607440	1LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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			-	-	-	
<u>12-RH-2303-KB2 (FIG NO B-RH-10)</u>						
607480 1 REDUCER TO PIPE (K-SW0004)	C-F PT C5.11	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
607500 2 PIPE TO ELBOW (K-SW0003)	C-F PT C5.11	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
607520 2LD LONGITUDINAL WELD	C-F PT C5.12	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
607560 3LU LONGITUDINAL WELD	C-F PT C5.12	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
607600 3 ELBOW TO PIPE (K-SW0002)	C-F PT C5.11	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
607620 4 PIPE TO NOZZLE (FW0013)	C-F PT C5.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -		AUGMENTED PSI - VOLUMETRIC SAMPLE. NO UT45T ON THE NOZZLE SIDE DUE TO WELDED RING. SEE APPENDIX L OF THIS REPORT.  **SS-13**
<u>12-RH-2312-KB2 (FIG NO B-RH-5)</u>						
608120 1 NOZZLE TO PIPE (FW0001)	C-F PT C5.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -		AUGMENTED PSI - VOLUMETRIC SAMPLE.    **SS-13**



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		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----					-	-	-
-----					-	-	-
<u>12-RH-2312-KB2 (FIG NO B-RH-5)</u>							
608140	2	C-F	PT	200-1/69	X	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
	PIPE TO ELBOW	C5.11	UT0L	800-36/37	X	-	
	(A-SW0002)		UT45		-	X	
			UT45T		X	-	**SS-13**
608160	2LD	C-F	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH, AUGMENTED
	LONGITUDINAL WELD	C5.12	UT0L	800-36/37	X	-	PSI.
			UT45		X	-	
			UT45T		X	-	**SS-13**
608200	3LU	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12					
608240	3	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	ELBOW TO PIPE	C5.11					
	(A-SW0003)						
608260	4	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW	C5.11					
	(A-SW0004)						
608280	4LD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12					
608320	5LU	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12					

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		SEC. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
-----		-----	-----	-----	C	M	R	**CALIBRATION BLOCK**	-----	

12-RH-2312-KB2 (FIG NO B-RH-5)

608360	5 ELBOW TO PIPE (A-SW0005)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
608380	6 PIPE TO REDUCER (A-SW0006)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
608400	6LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.		

B-RH-2103-KB2 (FIG NO B-RH-6)

608920	1 FLANGE TO PIPE (A-SW0007)	C-F CS.11	PT	200-1/69	X	.	.			
608940	2 PIPE TO ELBOW (A-SW0006)	C-F CS.11	PT	200-1/69	X	.	.			
608960	2LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	.	.	EXAMINED 2.5T OF WELD LENGTH.		
609000	3LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	.	.	EXAMINED 2.5T OF WELD LENGTH.		

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----		-----			-----		
<u>B-RH-2103-KB2 (FIG NO B-RH-6)</u>							
609040	3 ELBOW TO PIPE (A-SW0005)	C-F CS.11	PT	200-1/69	-	-	X FOUR LINEAR PT INDICATIONS. SEE CNF 080. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS.
609060	4 PIPE TO ELBOW (A-SW0004)	C-F CS.11	PT	200-1/69	X	-	-
609080	4LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	- EXAMINED 2.5T OF WELD LENGTH.
609120	5LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	- EXAMINED 2.5T OF WELD LENGTH.
609160	5 ELBOW TO PIPE (A-SW0003)	C-F CS.11	PT	200-1/69	X	-	-
609180	6 PIPE TO ELBOW (A-SW0002)	C-F CS.11	PT	200-1/69	X	-	-
609200	6LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	- EXAMINED 7.5T OF WELD LENGTH.

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		SEC. XI			O	G		
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
..... / .....		.....		.....	-	-	-	.....
<u>B-RH-2103-KB2 (FIG NO B-RH-6)</u>								
609240	7LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
609280	7 ELBOW TO PIPE (FW0001)	C-F CS.11	PT	200-1/69	X	-	-	
609300	8 PIPE TO FLANGE (FW0029)	C-F CS.11	PT	200-1/69	X	-	-	
609320	9 FLANGE TO PIPE (FW0030)	C-F CS.11	PT	200-1/69	X	-	-	
609340	10 PIPE TO FLANGE (FW0002)	C-F CS.11	PT	200-1/69	X	-	-	
609360	11 FLANGE TO PIPE (C-SW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
609380	12 PIPE TO ELBOW (C-SW0003)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	?
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					*	*	*
<u>8-RH-2103-KB2 (FIG NO 8-RH-6)</u>							
609400	12LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			REMARKS **CALIBRATION BLOCK**
							NOT SELECTED FOR EXAMINATION.
609440	13LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			REMARKS **CALIBRATION BLOCK**
							NOT SELECTED FOR EXAMINATION.
609480	13 ELBOW TO PIPE (C-SW0004)	C-F CS.11	PT	SEE REMARKS			REMARKS **CALIBRATION BLOCK**
							NOT SELECTED FOR EXAMINATION.
609500	14 PIPE TO FLANGE (FW0031)	C-F CS.11	PT	SEE REMARKS			REMARKS **CALIBRATION BLOCK**
							NOT SELECTED FOR EXAMINATION.
609520	15 FLANGE TO PIPE (FW0032)	C-F CS.11	PT	SEE REMARKS			REMARKS **CALIBRATION BLOCK**
							NOT SELECTED FOR EXAMINATION.
609540	16 PIPE TO ELBOW (FW0003)	C-F CS.11	PT	SEE REMARKS			REMARKS **CALIBRATION BLOCK**
							NOT SELECTED FOR EXAMINATION.
609560	16LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			REMARKS **CALIBRATION BLOCK**
							NOT SELECTED FOR EXAMINATION.

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						O	G	T	
						R	E	H	
						E	O	E	
						C	M	R	**CALIBRATION BLOCK**
.....									
<u>B-RH-2103-KB2 (FIG NO B-RH-6)</u>									
609600	17LU LONGITUDINAL WELD	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12							
609640	17 ELBOW TO PIPE (D-SW0002)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11							
609660	18 PIPE TO VALVE (FW0004)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11							
609680	19 VALVE TO PIPE (FW0005)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11							
609700	20 PIPE TO ELBOW	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11							
609720	20LD LONGITUDINAL WELD	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12							
609760	21LU LONGITUDINAL WELD	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12							

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NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O G T	REMARKS
-----		CATGY	METHOD		R E H	
-----		ITEM NO			E O E	**CALIBRATION BLOCK**
-----					C M R	-----
-----					- - -	-----
<u>8-RH-2103-KB2 (FIG NO 8-RH-6)</u>						
609800	21 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
609820	22 PIPE TO VALVE (FW0006)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
609840	23 VALVE TO PIPE (FW0007)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
609860	24 PIPE TO TEE (F-SW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
609880	24LD-1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
609900	24LD-2 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
609920	25LU-1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			W	O					
		SEC. XI			O	G	T				
		CATGY	EXAM			R	E	H			
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	REMARKS			
.....		.....		.....		.....		**CALIBRATION BLOCK**		.....	
<u>8-RH-2103-KB2 (PIC NO 8-RH-6)</u>											
609940	25LU-2 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.			
609960	25 TEE TO PIPE (F-SW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.			
609980	26 PIPE TO TEE (FW0008)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.			
610000	26LD-1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.			
610020	26LD-2 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.			
610040	27LU-1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.			
610060	27LU-2 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.			



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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. VI CIVIL EXAM ITEM NO	METHOD	PROCEDURE	N O T S E L E C T E D			REMARKS
				C	M	R	
-----							
<u>8-RH-2103-KB2 (FIC NO 8-RH-6)</u>							
610080 27 TEE TO PIPE (G-SW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
610085 27A PIPE TO PIPE (FW10022)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
610090 27B PIPE TO PIPE (FW10021)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
610100 28 PIPE TO REDUCER (FW0001)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
610120 28LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
610160 29LU-1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
610170 29LU-2 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**
<u>B-RH-2103-KB2 (FIG NO B-RH-6)</u>						
610200 29 TEE TO PIPE (G-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
610220 30 PIPE TO VALVE (G-SW0004)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
<u>B-RH-2104-KB2 (FIG NO B-RH-7)</u>						
610720 1111 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
610760 1 REDUCER TO PIPE (FW0002)	C-F CS.11	PT	200-1/69	X	-	
610780 2 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
610800 2LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
610840 3LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	M O O G T R E H E O E C M R	REMARKS
				**CALIBRATION BLOCK**
<u>B-RH-2104-KB2 (FIG NO B-RH-7)</u>				
610880 3 ELBOW J PIPE	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
610900 4 PIPE TO FLANGED VALVE	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
<u>B-RH-2106-KB2 (FIG NO B-RH-7)</u>				
611400 1 FLANGED VALVE TO PIPE (A-SW0008)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
611420 2 PIPE TO ELBOW (A-SW0006)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
611440 2LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
611480 3LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
611520 3 ELBOW TO PIPE (A-SW0007)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.

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		SEC. XI	EXAM		O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>B-RH-2106-KB2 (FIG NO B-RH-7)</u>							
611540	4 PIPE TO TEE (A-SW005)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
611560	4LD-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
611580	4LD-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
611600	5LU-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
611620	5LU-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
611640	5 TEE TO PIPE (A-SW0004)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
611660	6 PIPE TO ELBOW (A-GW0003)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----								
<u>8-RH-2106-KB2 (FIG NO B-RH-7)</u>								
611680	6LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
611720	7LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
611760	7 ELBOW TO PIPE (A-SW0002)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
611780	8 PIPE TO PIPE (FW0001)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
611800	9 PIPE FLANGE	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
611820	10 FLANGE TO PIPE	C-F C5.11	PT	200-1/69	X	-	-	
611840	11 PIPE TO ELBOW	C-F C5.11	PT	200-1/69	X	-	-	

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	W O G T R E H E O E C M R	REMARKS

B-RH-2106-KB2 (FIG NO B-RH-7)

611860	11LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.
611900	12LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.
611940	12 ELBOW TO PIPE	C-F CS.11	PT	200-1/69	X - -	
611960	13 PIPE TO VALVE (FW0002)	C-F CS.21	PT UT0L UT45 UT45T UT0W UT60	200-1/67 800-114/2  600-31/19	X - - X - - X - - X - - X - - - X -	LIMITED UT45/UT60 ON THE VALVE SIDE DUE TO VALVE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-11**

B-RH-2107-BB2 (FIG NO B-RH-7)

612460	1 VALVE TO PIPE (FW0001)	C-F CS.21	PT UT0L UT45 UT45T UT0W UT60	200-1/69 800-114/2  600-31/19	X - - X - - X - - X - - X - - X - -	**SS-11**
612480	2 PIPE TO VALVE (FW0002)	C-F CS.21	PT UT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O			REMARKS
					E O E	C M R		
-----								
<u>B-RH-2109-KB2 (FIG NO B-RH-6)</u>								
612980	1 VALVE TO PIPE (A-SW0002)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
613000	2 PIPE TO ELBOW (A-SW0003)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
613020	2LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
613060	3LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
613100	3 ELBOW TO PIPE (A-SW0004)	C-F C5.11	PT	200-1/69	X	-	-	
613120	4 PIPE TO TEE (A-SW0005)	C-F C5.11	PT	200-1/69	X	-	-	
613140	4LD-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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SUMMARY EXAMINATION AREA		ASME			M	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM		O	G T
-----		ITEM NO	METHOD	PROCEDURE		R	E H
						E	O E
						C	M R
							REMARKS
							**CALIBRATION BLOCK**
-----							-----
<u>B-RH-2109-KB2 (FIG NO B-RH-6)</u>							
613160	4LD-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
613180	5LU-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
613200	5LU-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
613220	5 TEE TO PIPE (FW0001)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
613240	6 PIPE TO TEE (FW0002)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
613260	6LD-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
613280	6LD-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.



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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>B-RH-2110-KB2 (FIG NO B-RH-7)</u>								
613780	1LU-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
613800	1LU-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
613820	1 TEE TO PIPE (FW0001)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
613840	2 PIPE TO ELBOW (FW0002)	C-F C5.11	PT	200-1/69	X	-	-	
613860	2LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
613900	3LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
613940	3 ELBOW TO PIPE (B-SW0002)	C-F C5.11	PT	200-1/69	X	-	-	

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			O G T	R E H	E O E	
			C	M	R	**CALIBRATION BLOCK**

B-RH-2110-KB2 (FIG NO B-RH-7)

613960 4 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO PIPE C5.11  
 (FW0002A)

613980 5 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO FLANGE C5.11  
 (B-SW0003)

614000 6 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 FLANGE TO PIPE C5.11

614010 7 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO PIPE C5.11

614080 8 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO VALVE C5.21  
 (FW0003)

B-RH-2111-BB2 (FIG NO B-RH-7)

614580 1 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 VALVE TO PIPE C5.21  
 (FW0001)

614600 2 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO ELBOW C5.21  
 (A-SW0003)

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T		R E H		
		ITEM NO	METHOD	PROCEDURE	E	O	REMARKS		
					C	M	R		
							**CALIBRATION BLOCK**		
<u>8-RH-2111-BB2 (FIG NO B-RH-7)</u>									
614620	3	C-F	PT	200-1/69	X	-	-		
	ELBOW TO PIPE	C5.21	UT0L	800-114/2	X	-	-		
	(A-SW0002)		UT45		-	X	-		
			UT45T		X	-	-		**SS-11**
614640	3A	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
	PIPE TO PIPE	C5.21	UT						
	(FW7981)								
614660	4	C-F	PT	200-1/69	X	-	-		
	PIPE TO VALVE	C5.21	UT0L	800-114/2	X	-	-		
	(FW0002)		UT45		-	X	-		
			UT45T		X	-	-		
			UT0W	600-31/19	X	-	-		**SS-10**
			UT60		-	X	-		
<u>8-RH-2203-KB2 (FIG NO B-RH-8)</u>									
615160	1	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
	FLANGE TO PIPE	C5.11							
	(A-SW0007)								
615180	2	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW	C5.11							
	(A-SW0006)								
615200	2LD	C-F	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12							

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NUMBER	IDENTIFICATION	SEC. XI	EXAM	PROCEDURE	O G T	REMARKS
		CATGY	ITEM NO	METHOD	E O E	C M R
						**CALIBRATION BLOCK**
<u>B-RH-2203-KB2 (FIG NO B-RH-8)</u>						
615240	3LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
615280	3 ELBOW TO PIPE (A-SW0005)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
615300	4 PIPE TO ELBOW	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
615320	4LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
615360	5LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
615400	5 ELBOW TO PIPE (A-SW0003)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
615420	6 PIPE TO ELBOW (A-SW0002)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O			REMARKS
					E O E	C M R		
-----								
<u>B-RH-2203-KB2 (FIG NO B-RH-8)</u>								
615440 6LD LONGITUDINAL WELD	C-F	PT	C5.12	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
615480 7LU LONGITUDINAL WELD	C-F	PT	C5.12	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
615520 7 ELBOW TO PIPE (FW0001)	C-F	PT	C5.11	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
615540 8 PIPE TO FLANGE (FW0028)	C-F	PT	C5.11	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
615560 9 FLANGE TO PIPE (FW0029)	C-F	PT	C5.11	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
615580 10 PIPE TO FLANGE (FW0002)	C-F	PT	C5.11	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
615600 11 FLANGE TO PIPE (C-SW0002)	C-F	PT	C5.11	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM		O	G T
			ITEM NO	METHOD	PROCEDURE	R	E H
						E	O E
						C	M R
RFMARKS							
**CALIBRATION BLOCK**							
<u>B-RH-2203-KB2 (FIG NO B-RH-B)</u>							
615620	12 PIPE TO ELBOW (C-SW0003)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
615640	12LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.12					
615680	13LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.12					
615720	13 ELBOW TO PIPE (C-SW0004)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
615740	14 PIPE TO FLANGE (FW0030)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
615760	15 FLANGE TO PIPE (FW0031)	C-F	PT	200-1/69		X	- -
		C5.11					
615780	16 PIPE TO ELBOW (FW0003)	C-F	PT	200-1/69		X	- -
		C5.11					

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SUMMARY EXAMINATION AREA		ASME			X	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY EXAM	PROCEDURE	E	O	REMARKS
		ITEM NO	METHOD		C	M	R
							**CALIBRATION BLOCK**
<u>8-RH-2203-KB2 (FIG NO b-RH-8)</u>							
615800	16LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
615840	17LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
615880	17 ELBOW TO PIPE (D-SW0002)	C-F C5.11	PT	200-1/69	X	-	
615900	18 PIPE TO VALVE (FW0004)	C-F C5.11	PT	200-1/69	X	-	
615920	19 VALVE TO PIPE (FW0005)	C-F C5.11	PT	200-1/69	X	-	
615940	20 PIPE TO TEE	C-F C5.11	PT	200-1/69	X	-	
615960	20LD-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.

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SUMMARY EXAMINATION AREA		ASME			N	O			
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T		
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS	
					E	O	E	**CALIBRATION BLOCK**	
-----					C	M	R	-----	
					-	-	-		
<u>B-RH-2203-KB2 (FIG NO B-RH-B)</u>									
615980	20LD-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.	
616000	21LU-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.	
616020	21LU-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.	
616040	21 TEE TO PIPE	C-F C5.11	PT	200-1/69	X	-	-		
616060	22 PIPE TO VALVE (FW0006)	C-F C5.11	PT	200-1/69	X	-	-		
616080	23 VALVE TO PIPE (FW0007)	C-F C5.11	PT	200-1/69	X	-	-		
616100	24 PIPE TO TEE (F-SW0002)	C-F C5.11	PT	200-1/69	X	-	-		



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SUMMARY EXAMINATION AREA		ASME			W	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>B-RH-2203-KB2 (FIG NO B-RH-8)</u>								
616110	24LD-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
616120	24LD-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
616130	25LU-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
616140	25LU-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
616200	25 TEE TO PIPE (F-SW0003)	C-F C5.11	PT	200-1/69	X	-	-	
616220	26 PIPE TO TEE (FW0008)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
616230	26LD-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			M	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>B-RH-2203-KB2 (FIG NO B-RH-8)</u>							
616200	26LD-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
616250	27LU-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
616260	27LU-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
616320	27 TEE TO PIPE (G-SW0003)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
616340	28 PIPE TO FLANGED VALVE (G-SW0002)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
616380	29LU-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
616390	29LU-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>B-RH-2203-KB2 (FIG NO B-RH-8)</u>								
616400	29 TEE TO PIPE (G-SW0004)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
616420	30 PIPE TO ELBOW (G-SW0005)	C-F C5.11	PT	200-1/69	X	-	-	
616440	30LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
616480	31LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
616520	31 ELBOW TO PIPE (G-SW0006)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
616540	32 PIPE TO ELBOW (G-SW0007)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
616560	32LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	C	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	
					E	O	E	
					C	M	R	
								REMARKS
								**CALIBRATION BLOCK**

8-RH-2203-KB2 (FIG NO 8-RH-8)

616600	33LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
616640	33 ELBOW TO PIPE (G-SW0008)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
616660	34 PIPE TO REDUCER (FW0012)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
616680	34LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

8-RH-2204-KB2 (FIG NO 8-RH-12)

617200	1LU-1 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617220	1LU-2 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617240	1 TEE TO PIPE (FW0001)	C-F CS.11	PT	200-1/69	X	-	-	

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-----								
<u>B-RH-2204-KB2 (FIG NO B-RH-12)</u>								
617260	2 PIPE TO ELBOW (A-SW0002)	C-F CS.11	PT	200-1/69	X	-	-	
617280	2LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617320	3LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617360	3 ELBOW TO PIPE (A-SW0003)	C-F CS.11	PT	200-1/69	X	-	-	
617380	4 PIPE TO ELBOW (FW0002)	C-F CS.11	FT	200-1/69	X	-	-	
617400	4LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617440	5LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	M O			REMARKS
			E O E	C M R		
-----						
<u>B-RH-2204-KB2 (FIG NO B-RH-12)</u>						
617480 5 ELBOW TO PIPE	C-F C5.11	PT 200-1/69	X	-	-	
617500 6 PIPE TO PIPE (FW0003)	C-F C5.11	PT SEE REMARKS				NOT SELECTED FOR EXAMINATION.
617520 7 PIPE TO ELBOW (C-SW0002)	C-F C5.11	PT 200-1/69	X	-	-	
617540 7LD LONGITUDINAL WELD	C-F C5.12	PT 200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617580 8LU LONGITUDINAL WELD	C-F C5.12	PT 200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617620 8 ELBOW TO PIPE (FW0004)	C-F C5.11	PT 200-1/69	X	-	-	
61764U 9 PIPE TO ELBOW (D-SW0002)	C-F C5.11	PT 200-1/69	X	-	-	

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O	G	T	
		CATGY	ITEM NO		R	E	H	REMARKS
		METHOD			E	O	E	
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>B-RH-2204-KB2 (FIG NO B-RH-12)</u>								
617660	9LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617700	10LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617740	10 ELBOW TO PIPE (FW0005)	C-F C5.11	PT	200-1/69	X	-	-	
617760	11 PIPE TO ELBOW (FW0006)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
617780	11LD LONGITUDINAL WELD	C-F C5.	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
617820	12LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617860	12 ELBOW TO ELBOW (F-SW0002)	C-F C5.11	PT	200-1/69	X	-	-	

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SUMMARY EXAMINATION AREA		ASME			N	Q		
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	
					E	O	E	
					C	M	R	
								REMARKS
								**CALIBRATION BLOCK**
-----								-----
<u>8-RH-2204-YB2 (FIG NO B-RH-12)</u>								
617880	12LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
617920	13LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
617960	13 ELBOW TO PIPE (F-SW0003)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
617980	14 PIPE TO ELBOW (F-SW0004)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
618000	14LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
618040	15LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
618080	15 ELBOW TO PIPE (F-SW0005)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.



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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	MEI/HOD	PROCEDURE	E	O	E	
					C	M	R	**CALIBRATION BLOCK**
-----								-----
<u>8-RH-2204-KB2 (FIG NO B-RH-12)</u>								
618100	16 PIPE TO PIPE (F-SW0006)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
618120	17 PIPE TO ELBOW (FW0007)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
618140	17LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
618180	18LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
618220	18 ELBOW TO PIPE (G-SW0002)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
618240	19 PIPE TO ELBOW (G-SW0003)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
618260	19LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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<u>B-RH-2704-KB2 (FIG NO B-RH-12)</u>				
618300 20LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
618400 20 PIPE TO PIPE (FW0004)	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
618350 21 PIPE TO ELBOW (FW0005)	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
618380 21LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
618420 22LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
618460 22 ELBOW TO BENT PIPE (FW0008)	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
618480 23 BENT PIPE TO PIPE (FW0009)	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	E	R	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

8-RH-2204-KB2 (FIG NO B-RH-12)

618500	24 PIPE TO VALVE (FW0010)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
618520	25 VALVE TO PIPE (FW0011)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
618540	26 PIPE TO PENETRATION (FW0012)	C-F CS.11	PT	200-1/69	X	-	

8-RH-2204-KB2 (FIG NO B-RH-13)

618560	27 PENETRATION TO PIPE (FW0013)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
618580	28 PIPE TO VALVE (FW0014)	C-F CS.11	PT	200-1/69	X	-	

8-RH-2205-KB2 (FIG NO B-RH-13)

618800	1 VALVE TO PIPE (FW0001)	C-F CS.11	PT	200-1/69	X	-	
618810	2 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	X	-	

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----		-----	-----	-----	-	-	-
<u>B-RH-2205-KB2 (FIG. NO B-RH-13)</u>							
618820	2LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
618840	3LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
618860	3 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
618870	4 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
618880	4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
618900	5LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
618920	5 ELBOW TO PIPE	C-F CS.11	PT	200-1/69	X	-	

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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G		
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----		-----	-	-	-	-----
<u>B-RH-2205-KB2 (FIG NO B-RH-13)</u>								
618940	6 PIPE TO TEE (FW0004)	C-F C5.11	PT	200-1/69	X	-	-	
618950	6LD-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
618960	6LD-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
618970	7LU-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
618980	7LU-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
618990	7 TEE TO PIPE	C-F C5.11	PT	200-1/69	X	-	-	
619000	8 PIPE TO PIPE (FW2070)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			
		ITEM NO	METHOD	PROCEDURE	E	O	REMARKS
					C	M	**CALIBRATION BLOCK**
					-	-	
<u>9-RH-2205-KB2 (FIG NO B-RH-13)</u>							
619010	9 PIPE TO PIPE (FW0005)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619015	10 PIPE TO PIPE (FW2091)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619020	11 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	X	-	
619030	11LB LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
619050	12LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
619070	12 ELBOW TO PIPE	C-F CS.11	PT	200-1/69	X	-	
619080	13 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	-	-	X WE LINEAR PT INDICATION. SEE CNF 036. X REEXAMINATION REVEALED NO RECORDABLE INDICATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----								
<u>8-RH-2205-KB2 (FIG NO 8-RH-13)</u>								
619090	13LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
619110	14LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
619130	14 ELBOW TO PIPE (FW0006)	C-F CS.11	PT	200-1/69	X	-	-	
619140	15 PIPE TO ELBOW (FW0007)	C-F CS.11	PT	200-1/69	X	-	-	
619150	15LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
619170	16LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
619190	16 ELBOW TO PIPE (FW2005)	C-F CS.11	PT	200-1/69	X	-	-	

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	C	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
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<u>B-RH-2205-KB2 (FIG NO B-RH-13)</u>							
519200	17 PIPE TO ELBOW (DD-SW0002)	C-F C5.11	PT	200-1/69	X	-	-
619202	17LD LONGITUDINAL WELD	C-F C5/12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
619203	17ALU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619204	17A ELBOW TO PIPE	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619205	17B PIPE TO ELBOW	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619207	17BLD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619208	18LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.



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		SEC. XI			O	G	T	
		CATGY	EXAM			R	E H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	
					C	M	R	
					REMARKS			
					**CALIBRATION BLOCK**			

B-RH-2205-KB2 (FIG NO B-RH-13)

619210	18 ELBOW TO PIPE (DO-SW0003)	C-F CS.11	PT	200-1/69	X	-	-	
619230	19 PIPE TO PIPE (FW0010)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
619240	20 PIPE TO BRANCH CONNECTION (FW0011)	C-F CS.11	PT	200-1/69	X	-	-	

B-RH-2206-KB2 (FIG NO B-RH-9)

619400	1 FLANGED VALVE TO PIPE (A-SW0002)	C-F CS.11	PT	200-1/69	X	-	-	
619410	2 PIPE TO TEE (A-SW0003)	C-F CS.11	PT	200-1/69	X	-	-	
619412	2LD-1 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
619414	2LD-2 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	C	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
REMARKS							
**CALIBRATION BLOCK**							
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<u>8-RH-2206-KB2 (FIG NO 8-RH-9)</u>							
619416	3LU-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-
EXAMINED 2.5T OF WELD LENGTH.							
619418	3LU-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-
EXAMINED 2.5T OF WELD LENGTH.							
619420	3 TEE TO PIPE (FW0001)	C-F C5.11	PT	200-1/69	X	-	-
619424	4LU-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-
EXAMINED 2.5T OF WELD LENGTH.							
619426	4LU-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-
EXAMINED 2.5T OF WELD LENGTH.							
619430	4 TEE TO PIPE (A-SW0004)	C-F C5.11	PT	200-1/69	X	-	-
619440	5 PIPE TO ELBOW (A-SW0005)	C-F C5.11	PT	200-1/69	X	-	-

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
-----		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----					-----		
<u>B-RH-2206-KB2 (FIG NO B-RH-9)</u>							
619450	5LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
619470	6LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619490	6 ELBOW TO PIPE (A-SW0006)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619500	7 PIPE TO ELBOW (A-SW0007)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619510	7LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619530	8LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
619550	8 ELBOW TO PIPE (A-SW0008)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T	RE H
		ITEM NO	METHOD	PROCEDURE	E O E	REMARKS
					C M R	**CALIBRATION BLOCK**
-----						
<u>B-RH-2206-KB2 (FIG NO B-RH-9)</u>						
619560	9 PIPE TO PIPE (FW0002)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
619570	10 PIPE TO FLANGE (B-SW0002)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
619580	11 FLANGE TO PIPE	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
619590	12 PIPE TO ELBOW (FS10429)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
619600	12LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
619620	13LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
619640	13 ELBOW TO PIPE (FS8376)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REMARKS
			ITEM NO	METHOD	PROCEDURE	E	O	E
						C	M	R
-----								
<u>8-RH-2206-KB2 (FIG NO B-RH-9)</u>								
619650	14 PIPE TO VALVE (FW0003)	C-F	PT	SEE REMARKS				NO: SELECTED FOR EXAMINATION.
<u>8-RH-2207-BB2 (FIG NO B-RH-9)</u>								
620160	1 VALVE TO PIPE (FW0001)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
620180	2 PIPE TO VALVE (FW0002)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
<u>8-RH-2209-KB2 (FIG NO B-RH-3)</u>								
620680	1 FLANGED VALVE TO PIPE (A-SW0002)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
620700	2 PIPE TO ELBOW (A-SW0003)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
620720	2LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
620760	3LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			
		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
REMARKS							
**CALIBRATION BLOCK**							
<u>B-RH-2209-KB2 (FIG NO B-RH-3)</u>							
620800	3 ELBOW TO PIPE (A-SW0004)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
620820	4 PIPE TO TEE (A-SW0005)	C-F C5.11	PT	200-1/69	X	-	-
620840	4LD-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
620860	4LD-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
620880	5LU-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
620900	5LU-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
620920	5 TEE TO PIPE (FW0001)	C-F C5.11	PT	200-1/69	X	-	-

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T	
		ITEM NO	METHOD	PROCEDURE	R E H	REMARKS
					E O E	
					C M R	**CALIBRATION BLOCK**
-----					- - -	-----
<u>8-RH-2210-KB2 (FIG NO 8-RH-3)</u>						
621420	1LU-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
621440	1LU-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
621460	1 TEE TO PIPE (FW0001)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
621480	2 PIPE TO ELBOW (FW0002)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
621500	2LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
621540	3LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
621580	3 ELBOW TO PIPE (B-SW0002)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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					E O E	C M R	**CALIBRATION BLOCK**	

8-RH-2210-KB2 (FIG NO B-RH-3)

621600 4 PIPE TO FLANGE (B-SW0003)	C-F C5.11	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
621620 5 FLANGE TO PIPE (C-SW0003)	C-F C5.11	PT		200-1/69	X	-	-	
621640 6 PIPE TO PIPE (C-SW0002)	C-F C5.11	PT		200-1/69	X	-	-	
621660 7 PIPE TO VALVE (FW0003)	C-F C5.21	PT UT0L UT45 UT45T UT0W		200-1/69 800-114/2 600-31/19	X X - X X	- - X -	- -	LIMITED UT45 ON THE VALVE SIDE DUE TO VALVE CONFIGURATION. SEE APPENDIX L OF THIS REPORT.  **SS-10**

8-RH-2211-BB2 (FIG NO B-RH-3)

622160 1 VALVE TO PIPE (FW0001)	C-F C5.21	PT UT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
622180 2 PIPE TO ELBOW (A-SW0002)	C-F C5.21	PT UT0L UT45 UT45T		200-1/69 800-114/2	X X - X	- -	- -	   **SS-11**



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		SEC. XI			O	G		
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----		-----	-	-	-	-----
<u>B-RH-2211-BB2 (FIG NO B-RH-3)</u>								
622200	3	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	ELBOW TO PIPE	C5.21	UT					
	(A-SW0003)							
622220	4	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	PIPE TO VALVE	C5.21	UT					
	(FW0002)							
<u>B-RH-2215-KB2 (FIG NO B-RH-9)</u>								
622720	1LU	C-F	P.	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12						
622760	1	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	REDUCER TO PIPE	C5.11						
	(FW0002)							
622780	2	C-F	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	C5.11						
622900	2LD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.12						
622840	3LU	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.12						

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T		
		ITEM NO	METHCD	PROCEDURE	R E H		REMARKS
					E O E		
					C M R		**CALIBRATION BLOCK**

B-RH-2215-KB2 (FIG NO B-RH-9)

622880	3 ELBOW TO PIPE	C-F C5.11	PT	200-1/69	X		
622900	4 PIPE TO ELBOW	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
622920	4LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
622960	5LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623000	5 ELBOW TO PIPE	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623020	6 PIPE TO FLANGED VALVE	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

B-RH-2303-KB2 (FIG NO B-RH-10)

623520	1 FLANGE TO PIPE (A-SW0007)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>B-RH-2303-K82 (FIG NO B-RH-10)</u>							
623540	2 PIPE TO ELBOW (A-SW0006)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623560	2LD LONGITUDINAL WELD	C-F C5.12	PT	SEE INST			NOT SELECTED FOR EXAMINATION.
623600	3LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623640	3 ELBOW TO PIPE (A-SW0005)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623660	4 PIPE TO ELBOW (A-SW0004)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623680	4LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623720	5LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM N <sup>o</sup>	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-----		
<u>8-RH-2303-KB2 (FIG NO 8-RH-10)</u>							
623760	5 ELBOW TO PIPE (A-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623780	6 PIPE TO ELBOW (A-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623800	6LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623840	7LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623880	7 ELBOW TO PIPE (FW0001)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623885	8 PIPE TO PIPE (B-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
623900	9 PIPE TO FLANGE (FW0033)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N O	
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T	REMARKS
		ITE' NO	METHOD	PROCEDURE	E O E	**CALIBRATION BLOCK**
-----					C M R	-----
-----					- - -	-----
<u>B-RH-2303-KB2 (FIG NO B-RH-10)</u>						
623920	10 FLANGE TO PIPE (FW0034)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
623960	11 PIPE TO FLANGE	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
623980	12 FLANGE TO PIPE (C-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
624000	13 PIPE TO ELBOW (C-SW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
624020	13LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
624060	14LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
624100	14 ELBOW TO PIPE (C-SW0004)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	
			ITEM NO	METHOD	PROCEDURE	R	E
						E	O
						E	R
						C	M
						R	**CALIBRATION BLOCK**
-----							
<u>B-RH-2303-KB2 (FIG NO B-RH-10)</u>							
624120	15 PIPE TO VALVE (FW0002)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
624140	16 VALVE TO PIPE (FW0003)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
624160	17 PIPE TO ELBOW (D-SW0005)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
624180	17LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.12					
624220	18LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.12					
624260	18 ELBOW TO PIPE (D-SW0004)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
624280	19 PIPE TO ELBOW (D-SW0003)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-----		
<u>8-RH-2303-KB2 (FIG NO 8-RH-10)</u>							
624300	19LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
624340	20LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
624380	20 ELBOW TO PIPE (D-SW0002)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
624400	21 PIPE TO VALVE (FW0004)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
624420	22 VALVE TO PIPE (FW0005)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
624440	23 PIPE TO TEE (E-SW0002)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
624540	20 TEE TO PIPE (FW0006)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M	O	REMARKS
					E	G	
					E	O	E
					C	M	R
-----							
<u>8-RH-2303-KB2 (FIG NO 8-RH-10)</u>							
624560 25 PIPE TO PIPE (FW0007)	C-F	PT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	C5.11						
624580 26 PIPE TO TEE (G-SW0003)	C-F	PT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	C5.11						
624600 26LD-1 LONGITUDINAL WELD	C-F	PT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	C5.12						
624620 26LD-2 LONGITUDINAL WELD	C-F	PT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	C5.12						
624640 27LU-1 LONGITUDINAL WELD	C-F	PT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	C5.12						
624660 27LU-2 LONGITUDINAL WELD	C-F	PT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	C5.12						
624680 27 TEE TO PIPE (G-SW0002)	C-F	PT		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
	C5.11						



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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	M C			REMARKS
					O G T	R E H	E O E	
					C M R	**CALIBRATION BLOCK**		
<u>B-RH-2303-KB2 (FIG NO B-RH-10)</u>								
624700 28 PIPE TO ELBOW (FW0008)	C-F CS.11	PT		200-1/69	X	-	-	
624720 28LD LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
624760 29LU LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
624800 29 ELBOW TO PIPE	C-F CS.11	PT		200-1/69	X	-	-	
624820 30 PIPE TO ELBOW	C-F CS.11	PT		200-1/69	X	-	-	
624840 30LD LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
624880 31LU LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD PROCEDURE	M O O G T R E H E O E C M R	REMARKS
<u>B-RH-2303-KB2 (FIG NO B-RH-10)</u>			
624920 31 ELBOW TO PIPE	C-F PT C5.11 200-1/69	X - -	
624940 32 PIPE TO TEE	C-F PT C5.11 200-1/69	X - -	
624960 32LD-1 LONGITUDINAL WELD	C-F PT C5.12 200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.
624980 32LD-2 LONGITUDINAL WELD	C-F PT C5.12 200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.
625000 33LU-1 LONGITUDINAL WELD	C-F PT C5.12 200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.
625020 33LU-2 LONGITUDINAL WELD	C-F PT C5.12 200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.
625040 33 TEE TO PIPE	C-F PT C5.11 200-1/69	X - -	

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SUMMARY EXAMINATION AREA		ASME			M	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----		-----		-----	-----		
					*	*	*
<u>B-RH-2303-KB2 (FIG NO B-RH-10)</u>							
625060	34 PIPE TO FLANGED VALVE	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
625080	35LU-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
625100	35LU-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
625120	35 TEE TO PIPE (FW0011)	C-F C5.11	PT	200-1/69	X	-	
625140	36 PIPE TO ELBOW (J-SW0605)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
625160	36LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
625200	37LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.

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SUMMARY EXAMINATION AREA		ASME			U	O			
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM		O	G	T	
			ITEM NO	METHOD	PROCEDURE	R	E	H	
						E	O	E	REMARKS
						C	M	R	**CALIBRATION BLOCK**
.....									
<u>B-RH-2303-KB2 (FIG NO B-RH-13)</u>									
625240	37 ELBOW TO PIPE (J-SW0004)	C-F CS.11	PT		200-1/69	X	-	-	
625250	37A PIPE TO PIPE (FW7849)	C-F CS.11	PT		SEE REMARKS				NCT SELECTED FOR EXAMINATION.
625260	3C PIPE TO ELBOW (FS7848)	C-F CS.11	PT		200-1/69	X	-	-	
625280	38LD LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
625320	39LU LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
625360	39 ELBOW TO PIPE (J-SW0002)	C-F CS.11	PT		200-1/69	X	-	-	
625380	40 PIPE TO REDUCER (FW0012)	C-F CS.11	PT		200-1/69	X	-	-	

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SUMMARY EXAMINATION AREA					W	O	REMARKS
ASME					O	G	
SEC. XI					R	E	
NUMBER	IDENTIFICATION	CATGY	EXAM	PROCEDURE	E	O	
		ITEM NO	METHOD		C	M	**CALIBRATION BLOCK**
-----							
<u>B-RH-2303-KB2 (FIG NO B-RH-10)</u>							
625400	40LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5Y OF WELD LENGTH.
<u>B-RH-2304-KB2 (FIG NO B-RH-11)</u>							
625920	1LU-1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
625940	1LU-2 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
625960	1 TEE TO PIPE (FW0001)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
625980	2 PIPE TO PIPE (FW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
626000	3 PIPE TO ELBOW (B-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
626020	3LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N O	
NUMBER IDENTIFICATION		S <sup>PC</sup> . XI	CATGY	EXAM	O G T	RE H
		ITEM NO	METHOD	PROCEDURE	E O E	REMARKS
					C M R	**CALIBRATION BLOCK**
-----						-----
<u>B-RH-2304-KB2 (FIG NO B-RH-11)</u>						
626060	4LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
626100	4 ELBOW TO ELBOW (B-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
626120	4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
626160	5LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
626200	5 ELBOW TO PIPE (FW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
626210	6 PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
626220	7 PIPE TO ELBOW (C-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-----		
<u>B-RH-2304-KB2 (FIG NO B-RH-11)</u>							
626240	7LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
626280	8LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
626320	8 ELBOW TO PIPE (FW0004)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
626340	9 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	X	-	-
626360	9LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
626400	10LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
626440	10 ELBOW TO PIPE	C-F CS.11	PT	200-1/69	X	-	-

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SUMMARY EXAMINATION AREA		ASME			M	O		
		SEC. XI			O	G	T	
		CATGY	CSM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
.....		.....		.....	.....			.....
<u>8-RH-2304-KB2 (FIG NO 8-RH-11)</u>								
626460	11 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	X	-	-	
626480	11LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
626520	12LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
626560	12 ELBOW TO PIPE (FW0005)	C-F CS.11	PT	200-1/69	X	-	-	
626580	13 PIPE TO BENT PIPE (FW0006)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
626600	14 BENT PIPE TO VALVE (FW0017)	C-F CS.11	PT	200-1/69	X	-	-	
626620	15 VALVE TO PIPE (FW0018)	C-F CS.11	PT	200-1/69	X	-	-	



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SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>B-RH-2304-KB2 (FIG NO B-RH-11)</u>							
626640	16 PIPE TO (FW0007)	C-F CS.11	PT	200-1/69	X	-	-
626660	17 VALVE TO PIPE (FW0008)	C-F CS.11	PT	200-1/69	X	-	-
626680	18 PIPE TO PENETRATION (FW0009)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
<u>B-RH-2304-KB2 (FIG NO B-RH-13)</u>							
626700	19 PENETRATION TO PIPE (FW0010)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
626720	20 PIPE TO VALVE (FW0011)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
<u>B-RH-2305-KB2 (FIG NO B-RH-13)</u>							
626800	1 VALVE TO PIPE (FW0001)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
626810	2 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			M	O	
NUMBER	IDENTIFICATION	SEC. XI	CAIGY	EXAM			REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
							**CALIBRATION BLOCK**

B-RH-2305-KB2 (FIG NO B-RH-13)

626820 2LD LONGITUDINAL WELD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 CS.12

626840 3LU LONGITUDINAL WELD C-F PT 200-1/69 X - - EXAMINED 2.5T OF WELD LENGTH.  
 CS.12

626860 3 ELBOW TO PIPE C-F PT 200-1/69 X - -  
 CS.11

626870 4 PIPE TO T&E (FW0002) C-F PT 200-1/69 X - -  
 CS.11

626880 4LD-1 LONGITUDINAL WELD C-F PT 200-1/69 X - - EXAMINED 2.5T OF WELD LENGTH.  
 CS.12

626890 4LD-2 LONGITUDINAL WELD C-F PT 200-1/69 X - - EXAMINED 2.5T OF WELD LENGTH.  
 CS.12

B-RH-2306-KR2 (FIG NO B-RH-14)

627200 1 FLANGED VALVE TO PIPE C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 CS.11

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>B-RH-2306-KB2 (FIG NO B-RH-14)</u>							
627220	2 PIPE TO TEE	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
627240	2LD-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
627260	2LD-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
627280	3LU-1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
627300	3LU-2 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
627320	3 TEE TO PIPE	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
627340	4 PIPE TO PIPE (FW0003)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	ITEM NO	C	M	R
							**CALIBRATION BLOCK**
<hr/>							
<u>B-RH-2306-KB2 (FIG NO B-RH-14)</u>							
627360	5 PIPE TO ELBOW (B-SW0002)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
627380	5LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.12					
627420	6LU LONGITUDINAL WELD	C-F	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
		C5.12					
627460	6 ELBOW TO PIPE (FW0004)	C-F	PT	200-1/69	X	-	
		C5.11					
627480	7 PIPE TO FLANGE (C-SW0002)	C-F	PT	200-1/69	X	-	
		C5.11					
627500	8 FLANGE TO PIPE (FS8343)	C-F	PT	200-1/69	X	-	
		C5.11					
627510	8A PIPE TO PIPE (FW8342)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS
-----	-----	-----	-----	*	*	*	**CALIBRATION BLOCK**
-----	-----	-----	-----	-----	-----	-----	-----

B-RH-2306-KB2 (FIG NO B-RH-14)

627520 9 PIPE TO ELBOW	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
627540 9LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
627580 10LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
627620 10 ELBOW TO PIPE	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
627630 10A PIPE TO PIPE (FW8341)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
627640 11 PIPE TO VALVE (FW0005)	C-F C5.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

B-RH-2307-8B2 (FIG NO B-RH-14)

628140 1 VALVE TO PIPE (FW0001)	C-F C5.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM				
		ITEM NO	METHOD	PROCEDURE				REMARKS
					C	M	R	**CALIBRATION BLOCK**
<u>B-RH-2307-BB2 (FIG NO B-RH-14)</u>								
628160	2	C-F	PT	200-1/69	X	-	-	
	PIPE TO VALVE	C5.21	UT0L	800-114/2	X	-	-	
	(FW0002)		UT45		-	X	-	
			UT45T		X	-	-	
			UT0W	600-31/19	X	-	-	**SS-11**
			UT60		-	X	-	
<u>B-RH-2309-KB2 (FIG NO B-RH-14)</u>								
628660	1	C-F	PT	200-1/69	X	-	-	
	FLANGED VALVE TO PIPE	C5.11						
628680	2	C-F	PT	200-1/69	X	-	-	
	PIPE TO TEE	C5.11						
628700	2LD-1	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.12						
628720	2LD-2	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.12						
628740	3LU-1	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.12						

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NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O	G	T	REMARKS
		CATGY	METHOD		E	O	E	
		ITEM NO			C	H	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>B-RH-2309-KB2 (FIG NO B-RH-14)</u>								
628760	3LU-2 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENG <sup>1</sup> .
628780	3 TEE TO PIPE	C-F CS.11	PT	200-1/69	X	-	-	
628800	4 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
628820	4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
628860	5LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
628900	5 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
628920	6 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**

B-RH-2309-KB2 (FIG NO B-RH-14)

628940 6LD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

628980 7LU C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

629020 7 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 ELBOW TO PIPE CS.11

629040 8 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO TEE CS.11  
 (FW0001)

629060 F D-1 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

629080 8LD-2 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

B-RH-2312-KB2 (FIG NO B-RH-5)

629580 1LU C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12



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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHC'D	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>B-RH-2312-KB2 (FIG NO B-RH-5)</u>								
629620	1 REDUCER TO PIPE (FW0002)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
629630	2 PIPE TO PIPE (FW3610)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
629634	2A PIPE TO PIPE (FW5718)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
629636	2B PIPE TO PIPE (FW5719)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
629640	3 PIPE TO ELBOW (FW0003)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
629660	3LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
629700	4LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			
		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**
<u>B-RH-2312-KB2 (FIG NO B-RH-5)</u>							
629740	4 ELBOW TO PIPE	C-F C5.11	PT	200-1/69	X	-	-
629760	5 PIPE TO FLANGED VALVE	C-F C5.11	PT	200-1/69	X	-	-
<u>B-RH-2313-KB2 (FIG NO B-RH-14)</u>							
630260	1LU-1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
630280	1LU-2 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
630300	1 TEE TO PIPE (FW0001)	C-F C5.11	PT	200-1/69	X	-	-
630310	1A PIPE TO PIPE (FW7860)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
630320	2 PIPE TO FLANGE (FS7859)	C-F C5.11	PT	200-1/69	X	-	-

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						E O E	C M R
-----						-	-
<u>B-RH-2313-KB2 (FIG NO B-RH-14)</u>							
630340	3 FLANGE TO PIPE (B-SWG002)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
630360	4 PIPE TO ELBOW (FW0002)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
630580	4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
630420	5LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
630460	5 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
630470	6 PIPE TO PIPE (FW3700)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
630480	7 PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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					O G T	R E H	E O E	
					C M R			**CALIBRATION BLOCK**
<u>8-RH-2313-KB2 (FIG NO 8-RH-14)</u>								
630500 8 PIPE TO VALVE (FW0003)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	C5.21							
<u>8-RH-2314-BB2 (FIG NO 8-RH-14)</u>								
631000 1 VALVE TO PIPE (FW0001)	C-F	PT		200-1/69	X	-	-	
	C5.21	UT0L		800-114/2	X	-	-	
		UT45			-	X	-	
		UT45T			X	-	-	
		UT0W		600-31/19	X	-	-	**SS-11**
		UT60			-	X	-	
631020 2 PIPE TO VALVE (FW0002)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	C5.21	UT						

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					C	M	R	
-----								
<u>24-SI-2101-UB2 (FIG NO B-SI-1, 2)</u>								
699990 1LU LONGITUDINAL WELD	C-F C5.12	PT	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.
		UT0L	UT45	800-36/37	X	-	-	
		UT45T			-	X	-	
					X	-	-	**SS-32**
700000 1 NOZZLE TO PIPE (FW0027)	C-F C5.11	PT	PT	200-1/69	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
		UT0L	UT45	800-36/37	X	-	-	
		UT45T			-	X	-	
					X	-	-	**SS-32**
700020 1LD LONGITUDINAL WELD	C-F C5.12	PT	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.
		UT0L	UT45	800-36/37	X	-	-	
		UT45T			-	X	-	
					X	-	-	**SS-32**
700040 2LU LONGITUDINAL WELD	C-F C5.12	PT	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700060 2 PIPE TO ELBOW	C-F C5.11	PT	PT	200-1/69	X	-	-	
700080 2LD1 LONGITUDINAL WELD	C-F C5.12	PT	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	METHOD	PROCEDURE	
		ITEM NO				**CALIBRATION BLOCK**
<u>24-SI-2101-UB2 (FIG NO B-SI-1, 2)</u>						
700100	2LDO LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X - - EXAMINED 2.5T OF WELD LENGTH.
700120	3LUI LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X - - EXAMINED 2.5T OF WELD LENGTH.
700140	3LUO LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X - - EXAMINED 2.5T OF WELD LENGTH.
700160	3 ELBOW TO PIPE	C-F C5.11	PT		200-1/69	X - -
700180	3LD LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X - - EXAMINED 2.5T OF WELD LENGTH.
700200	4LU LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X - - EXAMINED 2.5T OF WELD LENGTH.
700220	4 PIPE TO ELBOW	C-F C5.11	PT		200-1/69	X - -

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T			
		ITEM NO	METHOD	PROCEDURE	R E H			
					E O E		REMARKS	
					C M R		**CALIBRATION BLOCK**	
-----		-----		-----		-----		
<u>24-SI-2101-UB2 (FIG NO B-SI-1, 2)</u>								
700240	4LD1 LONGITUDINAL WELD	C-F CS.12	IT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700260	4LDO LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700280	5LUI LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700300	5LUO LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700320	5 ELBOW TO PIPE	C-F CS.11	PT	200-1/69	X	-	-	
700340	5LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700360	6 6-IN. BRACKET CONNECTION	C-F CS.31	PT	200-1/69	X	-	-	

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O	G	T
		CATGY	ITEM NO	METHOD	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>24-SI-2101-UB2 (TIG NO B-SI-1, 2)</u>							
700380	7 8-IN. BRANCH CONNECTION	C-F CS.31	PT	200-1/69	X	-	-
700385	7ALU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
700390	7A PIPE TO PIPE (FW0028)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
700395	7ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
700400	8LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
700420	8 PIPE TO PIPE (FW0028)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
700440	8LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.



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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T		
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS	
					E	O	E		
					C	M	R	**CALIBRATION BLOCK**	
-----									
24-SI-2101-UB2 (FIG NO B-SI-1, 2)									
700450	8PL1-8PLB PIPE LUGS	C-C C3.20	PT	200-1/69	X	-	-		
700460	9LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.	
700480	9 PIPE TO PIPE (FW5506)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.	
700500	9LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.	
700520	10LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.	
700540	10 PIPE TO ELBOW (B-SW0002)	C-F C5.11	PT	200-1/69	X	-	-		
700560	10LD1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.	

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	METHOD	PROCEDURE		O G T
		ITEM NO					R E H
							E O E
-----							C M R
							**CALIBRATION BLOCK**
-----							
<u>24-S1-2101-UB2 (FIG NO B-S1-1, 2)</u>							
700580	10LDO LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.	
700600	11LUI LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.	
700620	11LUD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.	
700640	11 ELBOW TO PIPE (FW0029)	C-F CS.11	PT	200-1/69	X - -		
700660	11LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.	
700680	12LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.	
700700	12 PIPE TO PIPE (C-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.	

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
-----		-----	-----	-----	C	M	R	-----
					-	-	-	
<u>24-SI-2101-UB2 (FIG NO B-SI-1, 2)</u>								
700720	12LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
700740	13LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700760	13 PIPE TO ELBOW (FW0030)	C-F C5.11	PT	200-1/69	X	-	-	
700780	13LD1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700800	13LD0 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700820	14LU1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700840	14LD0 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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				C	M	R	
-----							
24-SI-2101-JB2 (FIG NO B-SI-1, 2)							
700860 14 ELBCW TO PIPE	C-F CS.11	PT	200-1/69	X	-	-	
700880 14LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700900 15LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
700920 15 PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
700940 15LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
700960 16LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
700980 16 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	X	-	-	

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					C	M	R	
-----								**CALIBRATION BLOCK**
-----								
<u>24-SI-2101-UB2 (FIG NO 8-SI-1, 2)</u>								
701000	16LD1 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701020	16LDO LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701040	17LU1 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701060	17LUC LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701080	17 ELBOW TO PIPE (FW0001)	C-F CS.11	PT	200-1/69	X	-	-	
701100	17LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701120	18LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
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<u>24-SI-2101-UB2 (FIG NO B-SI-1, 2)</u>								
701140	18 PIPE TO ELBOW (FW0002)	C-F C5.11	PT	200-1/69	X	-	-	
701160	18LD1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701180	18LD0 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701200	19LUI LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701220	19LU0 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701240	19 ELBOW TO PIPE (F-SW0002)	C-F C5.11	PT	200-1/69	X	-	-	
701260	19LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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						E O E	C M R
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<u>24-SI-2101-UB? (FIG NO B-SI-1, 2)</u>							
701270	20LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
701271	20 PIPE TO PIPE (F-SW0005)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
701272	20LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
701280	21LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
701300	21 PIPE TO PIPE (FW0003)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
701320	21LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
701340	22LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REH
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
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**CALIBRATION BLOCK**								
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<u>24-S1-2101-UB2 (FIG NO B-S1-1, 2)</u>								
701360	22 PIPE TO PIPE (G-SW0005)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
701380	22LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
701400	23LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701420	23 PIPE TO ELBOW (G-SW0002)	C-F C5.11	PT	200-1/69	X	-	-	
701440	23LD1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701460	23LDO LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
701480	24LU1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.



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					O	G	T	
		ITEM NO			E	O	E	
-----					C	M	R	**CALIBRATION BLOCK**
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<u>24-SI-2101-UB2 (FIG NO B-SI-1, 2)</u>								
701500	24LU0 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	.	.	EXAMINED 2.5T OF WELD LENGTH.
701520	24 ELBOW TO ELBOW (FW0004)	C-F C5.11	PT	200-1/69	X	.	.	
701540	24LD1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	.	.	EXAMINED 2.5T OF WELD LENGTH.
701560	24LD0 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	.	.	EXAMINED 2.5T OF WELD LENGTH.
701580	25LU1 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	.	.	EXAMINED 2.5T OF WELD LENGTH.
701600	25LU0 LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	.	.	EXAMINED 2.5T OF WELD LENGTH.
701620	25 ELBOW TO PIPE	C-F C5.11	PT	200-1/69	.	.	X	ONE LINEAR PT INDICATION. SEE CNF 052. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS.

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4-SI-2101-UP2 (FIG NO B-SI-1, 2)

701640	25LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.
701660	26 16-IN. BRANCH CONNECTION	C-F CS.31	PT	200-1/69	X - -	
701680	27LU LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-32**
701700	27 PIPE TO REDUCER (FW0005)	C-F CS.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X - - X - - - X - X - -	AUGMENTED PSI - VOLUMETRIC SAMPLE.   **SS-32**
701720	27LD LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-32**

20-SI-2101-UB2 (FIG NO B-SI-2)

702240	1LU LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-31**
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					O	G	T	
					R	E	H	
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>20-SI-2101-UB2 (FIG NO B-SI-2)</u>								
702280	1 REDUCER TO PIPE	C-F C5.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X X - X	- - X -	- - - -	PIGMENTED PSI - VOLUMETRIC SAMPLE.    **SS-31**
702300	1LD LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X X X X	- - - -	- - - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.   **SS-31**
702320	2LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
702340	2 PI-E TO PIPE (FW0006)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
702360	2LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
702380	3 16-IN. BRANCH CONNECTION	C-F C5.31	PT	200-1/69	X	-	-	
702400	4LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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-----							
<u>20-SI-2101-UB2 (FIG NO B-SI-2)</u>							
702420 4 PIPE TO REDUCER	C-F CS.11	PT	200-1/69	X	-	-	
702440 4LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
<u>14-SI-2101-UB2 (FIG NO B-SI-2)</u>							
702960 1LU LONGITUDINAL WELD	C-F CS.12	PT UTUL UT45 UT45T	200- 800-3	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI. - X - X - - **SS-30**
703000 1 REDUCER TO PIPE (FW0007)	C-F CS.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE. X - - - X - - X - **SS-30**
703020 1LD LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI. - - **SS-30**
703040 2LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O	G	T
		CATGY	METHOD		R	E	H
		ITEM NO			E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**
<u>16-SI-2101-U-2 (FIG NO B-SI-3)</u>							
703045	2 PIPE TO PIPE (L-SW0006)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
703050	2LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
703055	3LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
703060	3 PIPE TO ELBOW (L-SW0003)	C-F CS.11	PT	200-1/69	X	-	
703080	3LD1 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
703100	3LDC LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
703120	4LU1 LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X X X X	- - - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  ***SS-30**

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
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<u>16-SI-2101-UB2 (FIG NO B-SI-3)</u>								
703140	4LUO LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-30**
703160	4 ELBOW TO PIPE (L-SW0002)	C-F CS.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.  **SS-30**
703180	4LD LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-30**
703200	5LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
703220	5 PIPE TO VALVE (FW0008)	C-F CS.11	PT	200-1/69	X	-	-	
703240	6 VALVE TO PIPE (FW0009)	C-F CS.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.  **SS-30**

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	**CALIBRATION BLOCK**
					C	M	R	
					-	-	-	
<u>16-SI-2101-UB2 (FIG NO B-SI-3)</u>								
703260	6LD LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  ***SS-50**
703280	7LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
703300	7 PIPE TO VALVE (FW0010)	C-F C5.11	PT	200-1/69	X	-	-	
703320	8 VALVE TO PIPE (FW0011)	C-F C5.11	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
703340	8LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
703360	9 12-IN. BRANCH CONNECTION	C-F C5.31	PT	200-1/69	X	-	-	
703380	9ALU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			
		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>J6-SI-2101-UB2 (FIG NO B-SI-3)</u>							
703385	9A PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
703390	9ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
703395	9BLU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
703400	9B PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
703405	9BLD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
703410	9CLU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
703415	9C PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.



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				**CALIBRATION BLOCK**	
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<u>16-SI-2101-UB2 (FIG NO B-SI-3)</u>					
703420 9CLD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
703440 10 10-1W, BRANCH CONNECTION	C-F CS.31	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
703460 11LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
703480 11 PIPE TO PIPE (FW0011A)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
703500 11LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
703520 12 12-1W, BRANCH CONNECTION (N-SW.003)	C-F CS.31	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
703540 13LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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						C	M	R	
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<u>16-SI-2101-UB2 (FIG NO B-SI-3)</u>									
703560	13 PIPE TO ELBOW (FW0012)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
703580	13LD1 LONGITUDINAL WELD	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
703600	13LDO LONGITUDINAL WELD	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
703620	14LU' LONGITUDINAL WELD	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
703640	14LUD LONGITUDINAL WELD	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
703660	14 ELBOW TO ELBOW (P-SW0002)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
703680	14LD1 LONGITUDINAL WELD	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	ITEM NO	NR1.000				C	M	R
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**CALIBRATION BLOCK**									
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16-SI-2101-UB2 (FIG NO B-91-3)

703700	14LD0 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
703720	15LU1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
703740	15LU0 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
703760	15 ELBOW TO PIPE (P-SW0003)	C-F CS.11	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
703780	15LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
703800	16LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
703820	16 PIPE TO PIPE (FW0014)	C-F CS.11	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.

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				C M R	E O E
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<u>16-SI-2101-UB2 (FIG NO B-SI-3)</u>					
703840 16LD LONGITUDINAL WELD	C-F PT C5.12	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
703860 17LU LONGITUDINAL WELD	C-F PT C5.12	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
703880 17 PIPE TO VALVE (FW0015)	C-F PT C5.11	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
703900 18 VALVE TO PIPE (FW0016)	C-F PT C5.11	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
703920 18LD LONGITUDINAL WELD	C-F PT C5.12	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
703940 19LU LONGITUDINAL WELD	C-F PT C5.12	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
703960 19 PIPE TO ELBOW (RA-SW0002)	C-F PT C5.11	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**
<u>16-SI-2101-UB2 (FIG NO 9-SI-3)</u>							
703980	19LD1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704000	19LDO LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704020	20LU1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704040	20LUD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704060	20 ELBOW TO PIPE (FW0047)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704080	20LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704100	21LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
.....		.....		.....	.....			.....
<u>16-SI-2101-UB2 (FIG NO B-SI-3)</u>								
704120	21 PIPE TO ELBOW (RB-SW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
704140	21LD1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
704160	21LD0 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
704180	22LU1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
704200	22LUD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
704220	22 ELBOW TO PIPE (FW0048)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
704240	22LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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<u>16-SI-2101-U82 (FIG NO 8-SI-3)</u>						
704260	23LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
704280	23 PIPE TO ELBOW (RC-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
704300	23LD1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
704320	23LD0 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
704340	24LUI LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
704360	24LU0 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
704380	24 ELBOW TO PIPE (FW0049)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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			*****	*****	*****	
<u>16-SI-2101-UB2 (FIG NO B-SI-3)</u>						
704400 24LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704420 25LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704440 25 PIPE TO PIPE (RD-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704460 25LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704480 26LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704500 26 PIPE TO PIPE (FW0050)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
704510 26LD LONGITUDINAL WELD	C-F CS.12	PT	SEE INST			NOT SELECTED FOR EXAMINATION.



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				O	G	T	
	ITEM NO			E	O	E	**CALIBRATION BLOCK**
-----							

16-SI-2101-UB2 (FIG NO B-SI-3)

704550	27LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/62 DEV. 1	X	-	-	EXAMINED PRIOR TO INSTALLATION. THIS WELD IS INACCESSIBLE AFTER INSTALLATION.
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704560	27 PIPE TO PENETRATION (FW0051)	C-F CS.11	PT	200-1/62 DEV. 1	X	-	-	EXAMINED PRIOR TO INSTALLATION. THIS WELD IS INACCESSIBLE AFTER INSTALLATION.
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704620	28 PENETRATION TO FLANGE (FW0064)	C-F CS.11	PT	200-1/69	X	-	-	
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16-SI-2201-UB2 (FIG NO B-SI-4)

705120	1 BRANCH CONNECTION TO PIPE (FW0001)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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705140	1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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705160	ZLU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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705180	2 PIPE TO VALVE (FW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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				-	-	
<u>16-SI-2201-UB2 (FIG NO B-SI-4)</u>						
705200 3 VALVE TO PIPE (FW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705220 3LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705240 4LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705260 4 PIPE TO VALVE (FW0004)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705280 5 VALVE TO PIPE (FW0005)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705300 5LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705380 7 12-IN. BRANCH CONNECTION (FW5341)	C-F CS.31	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>16-SI-2201-U92 (FIG NO 8-SI-4)</u>							
705460	9 10-IN. BRANCH CONNECTION (FW5342)	C-F CS.31	PT	200-1/69	X	-	-
705480	10LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705500	10 PIPE TO PIPE (FW0005A)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705520	10LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705540	11 12-IN. BRANCH CONNECTION	C-F CS.31	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705560	12LU LONGITUDINAL WELD	C-F CS.12	PT UTDL UT4S UT4ST	200-1/69 800-36/37	X X X X	- - - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-30**
705580	12 PIPE TO ELBOW (FW0006)	C-F CS.11	PT UTDL UT4S UT4ST	200-1/69 800-36/37	X X - X	- - X -	AUGMENTED PSI - VOLUMETRIC SAMPLE.   **SS-30**

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					O	G		T	R	E	H
					*****						
<u>16-SI-2201-UB2 (FIG NO B-SI-4)</u>											
705600	12LD1 LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45f	200-1/69 800-36/37	X	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-30**				
705620	12LDO LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **S <sub>J</sub> -30**				
705640	13LUI LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.				
705660	13LUO LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.				
705680	13 ELBOW TO ELBOW (D-SW0002)	C-F CS.11	PT	200-1/69	X	-					
705700	13LD1 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.				
705720	13LDO LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.				

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		SEC. XI			O	G	T
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NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----							
<u>16-a1-2201-UB2 (FIG. NO. B-51-4)</u>							
705740	14LUI LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -		EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-30**
705760	14LUO LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -		EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-30**
705780	14 ELBOW TO PIPE (D-SW0003)	C-F C5.11	PT UTOL UT45 UT45T	200-1/69 800-36/37	X - - X - - - X - X - -		AUGMENTED PSI - VOLUMETRIC SAMPLE.   **SS-30**
705800	14LD LONGITUDINAL WELD	C-F C5.12	PT UTOL UT45 UT45T	200-1/69 800-36/37	X - - X - - - X - X - -		EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-30**
705810	14PL1-14PLB PIPE LUGS	C-C C3.20	PT	200-1/69	X - -		
705820	15LL LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	PROCEDURE	C	M	R	REMARKS
		ITEM NO	METHOD						
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<u>16-SI-2201-UB2 (FIG NO B-SI-4)</u>									
705840	15 PIPE TO PIPE (FW0008)	C-F CS.11	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
705860	15LD LONGITUDINAL WELD	C-F CS.12	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
705880	16LIJ LONGITUDINAL WELD	C-F CS.12	PT	UT0L UT45 UT45T	200-1/69 300-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-30**
705900	16 PIPE TO VALVE (FW0009)	C-F CS.11	PT	UT0L UT45 UT45T	200-1/69 300-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE. NO UT45T ON VALVE SIDE DUE TO VALVE CORROSION. SEE APPENDIX L OF THIS REPORT. **SS-30**
705920	17 VALVE TO PIPE (FW1037)	C-F CS.11	PT		200-1/69	X	-	-	
705940	17LD LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
705945	17ALU LONGITUDINAL WELD	C-F CS.12	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**
<u>16-SI-2201-UB2 (FIG NO B-SI-4)</u>							
705950	17A PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705955	17ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
705960	18LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
705980	18 PIPE TO ELBOW (2A-SW0002)	C-F CS.11	PT	200-1/69	X	-	
706000	18LD1 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
706020	18LDO LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
706040	19LU1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
<u>16-SI-2201-UB2 (FIG NO B-SI-6)</u>							
706060	19LUO LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
706080	19 ELBOW TO PIPE (FW0033)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
706100	19LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
706120	19ALU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
706140	19A PIPE TO PIPE (FW8057)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
706160	19ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
706180	20LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.



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				E	O	E	
	ITEM NO			C	M	R	**CALIBRATION BLOCK**
<u>16-SI-2201-UB2 (FIG NO B-SI-4)</u>							
706200 20 PIPE TO ELBOW (EB-SW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
706220 20LD1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
706240 20LD1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
706260 21LU1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
706280 21LU0 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
706300 21 ELBOW TO PIPE (FW0034)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
706320 21LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E O E	**CALIBRATION BLOCK**
					C M R	
					X X X	
<u>16-SI-2201-UB2 (FIG NO B-SI-4)</u>						
706340	22LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
706360	22 PIPE TO ELBOW (EC-SW0002)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
706380	22LD1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
706400	22LDO LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
706420	23LU1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
706440	23LUO LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
706460	23 ELBOW TO PIPE (FW0035)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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		SEC. XI	CATGY			O G T	R E H	E O E	
.....	.....	ITEM NO	.....	.....	.....	C M R	.....	.....	.....
<u>16-SI-2201-UB2 (FIG NO B-SI-4)</u>									
706480	23LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
706500	24LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
706520	24 PIPE TO PIPE (FW0036)	C-F C5.11	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
706540	24LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
706560	25LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/62 DEV. 1	X	.	.		EXAMINED PRIOR TO INSTALLATION. THIS WELD IS INACCESSIBLE AFTER INSTALLATION.
706580	25 PIPE TO PENETRATION (FW0037)	C-F C5.11	PT	200-1/62 DEV. 1	X	.	.		EXAMINED PRIOR TO INSTALLATION. THIS WELD IS INACCESSIBLE AFTER INSTALLATION.
706640	26 PENETRATION TO FLANGE (FW0038)	C-F C5.11	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
-----							
<u>16-SI-2301-UB2 (FIG NO B-SI-5)</u>							
707140	1 BRANCH CONNECTION TO PIPE (FW0001)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707160	1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707180	2LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707200	2 PIPE TO VALVE (FW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707220	3 VALVE TO PIPE (FW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707240	3LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707260	4LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----		-----		-----	-----		
<u>16-SI-2301-UB2 (FIG NO B-SI-5)</u>							
707200	4 PIPE TO VALVE (FW0004)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707300	5 VALVE TO PIPE (FW0005)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707320	5LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707460	6 12-IN. BRANCH CONNECTION (C-SW0003)	C-F CS.31	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707540	7 10-IN. BRANCH CONNECTION (C-SW0002)	C-F CS.31	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707560	BLU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707580	8 PIPE TO PIPE (FW0005A)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.



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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
<u>16-SI-2301-UB2 (FIG NO B-SI-5)</u>							
707800	11LU0 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707820	11 ELBOW TO ELBOW	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707840	11LD1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707860	11LD0 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707880	12LU1 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707900	12LU0 LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707920	12 ELBOW TO PIPE	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					- - -		
<u>16-SI-2301-UB2 (FIG NO B-SI-5)</u>							
707940	12LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707950	12PL1-12PL8 PIPE LUGS	C-C C3.20	PT	200-1/69	X	-	
707960	13LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
707980	13 PIPE TO PIPE (FW0008)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
708000	13LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
708020	14LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
708040	14 PIPE TO VALVE (FW0009)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.



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						C M R	**CALIBRATION BLOCK**	
<u>16-SI-2301-UB2 (FIG NO B-SI-5)</u>								
708060 15 VALVE TO PIPE (FW0010)	C-F CS.11	PT		SEE REMARKS	NOT SELECTED FOR EXAMINATION.			
708080 15LD LONGITUDINAL WELD	C-F CS.12	PT		SEE REMARKS	NOT SELECTED FOR EXAMINATION.			
708090 16LU LONGITUDINAL WELD	C-F CS.12	PT		SEE REMARKS	NOT SELECTED FOR EXAMINATION.			
708091 16 PIPE TO PIPE (FW6303)	C-F CS.11	PT		SEE REMARKS	NOT SELECTED FOR EXAMINATION.			
708092 16LD LONGITUDINAL WELD	C-F CS.12	F?		SEE REMARKS	NOT SELECTED FOR EXAMINATION.			
708100 17LU LONGITUDINAL WELD	C-F CS.12	PT		SEE REMARKS	NOT SELECTED FOR EXAMINATION.			
708120 17 PIPE TO ELBOW (EA-SW0002)	C-F CS.11	PT		SEE REMARKS	NOT SELECTED FOR EXAMINATION.			

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					-	-	-	
<u>16-SI-2301-U82 (FIG NO B-SI-5)</u>								
708140	17LD1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
708160	17LD0 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
708180	18LU1 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
708200	18LU0 LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
708220	18 ELBOW TO PIPE (FW0033)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
708240	18LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
708260	19LU LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -			EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  ***SS-30**

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
.....		.....	.....	.....	.....	.....	.....
<u>16-SI-2301-UB2 (FIG NO B-SI-5)</u>							
708280	19	C-F	PT	200-1/69	X	-	-
	PIPE TO ELBOW	C5.11	UT0L	800-36/37	X	-	-
	(EB-SW0002)		UT45		X	-	-
			UT45T		X	-	-
							**SS-30**
708300	19LD1	C-F	PT	200-1/69	X	-	-
	LONGITUDINAL WELD	C5.12	UT0L	800-36/37	X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**SS-30**
708320	19LD0	C-F	PT	200-1/69	X	-	-
	LONGITUDINAL WELD	C5.12	UT0L	800-36/37	X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**SS-30**
708340	20LUI	C-F	PT	200-1/69	X	-	-
	LONGITUDINAL WELD	C5.12					EXAMINED 2.5T OF WELD LENGTH.
708360	20LU0	C-F	PT	200-1/69	X	-	-
	LONGITUDINAL WELD	C5.12					EXAMINED 2.5T OF WELD LENGTH.
708380	20	C-F	PT	200-1/69	X	-	-
	ELBOW TO PIPE	C5.11					
	(FW0034)						

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NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O	G	T
		CATGY			R	E	H
		ITEM NO	METHOD		E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
.....		.....	.....	.....	-	-	-
<u>16-SI-2301-UB2 (FIG NO B-SI-5)</u>							
708400	20LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
708420	21LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
708440	21 PIPE TO ELBOW (FW7669)	C-F CS.11	PT	200-1/69	X	-	
708460	21LD1 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
708480	21LD0 LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
708500	22LUI LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X X X	- - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-30**
708520	22LU0 LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X X X	- - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-30**

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
.....					-	-	-
<u>16-SI-2301-UB2 (FIG NO B-SI-5)</u>							
708540	22 ELBOW TO PIPE (FW0035)	C-F CS.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X	-	-
					AUGMENTED PSI - VOLUMETRIC SAMPLE.		
					**SS-30**		
708560	22LD LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X	-	-
					EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.		
					**SS-30**		
708565	22ALU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			
					NOT SELECTED FOR EXAMINATION.		
708570	22A PIPE TO PIPE (FW0035)	C-F CS.11	PT	SEE REMARKS			
					NOT SELECTED FOR EXAMINATION.		
708575	22ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			
					NOT SELECTED FOR EXAMINATION.		
708580	23LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			
					NOT SELECTED FOR EXAMINATION.		
708600	23 PIPE TO PIPE (FW0036)	C-F CS.11	PT	SEE REMARKS			
					NOT SELECTED FOR EXAMINATION.		

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.....	.....	.....	X - -	.....
<u>16-SI-2301-UB2 (FIG NO B-SI-5)</u>				
708610 23LD LONGITUDINAL WELD	C-F CS.12	PT SEE REMARKS		NOT SELECTED FOR EXAMINATION.
708650 24LU LONGITUDINAL WELD	C-F CS.12	PT 200-1/62 DEV. 1	X - -	EXAMINED PRIOR TO INSTALLATION. THIS WELD IS INACCESSIBLE AFTER INSTALLATION.  **SS-30**
708660 24 PIPE TO PENETRATION (FW0037)	C-F CS.11	PT 200-1/62 DEV. 1	X - -	EXAMINED PRIOR TO INSTALLATION. THIS WELD IS INACCESSIBLE AFTER INSTALLATION.
708720 25 PENETRATION TO FLANGE (FW0038)	C-F CS.11	PT 200-1/69		NOT SELECTED FOR EXAMINATION.
<u>12-SI-2101-UB2 (FIG NO B-SI-3)</u>				
709220 1 BRANCH CONNECTION TO PIPE (FW0023)	C-F CS.11	PT UT0L UT45 UT45T	X - - X - - - X - X - -	AUGMENTED PSI - VOLUMETRIC SAMPLE.    **SS-12**
709240 1LD LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	X - - X - - X - - X - -	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.   **SS-12**

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	**CALIBRATION BLOCK**
					C	M	R	
					-	-	-	
<u>12-SI-2101-UB2 (FIG NO B-91-3)</u>								
709241	1ALU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
709242	1A PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
709243	1ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
709245	2LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
709280	2 PIPE TO ELBOW (FS8834)	C-F CS.11	PT	200-1/69	X	-	-	
709300	2LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
709340	3LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.





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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>12 SI-2101-U82 (FIG NO B-SI-3)</u>							
709560	5LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
709580	6LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
709600	6 PIPE TO ELBOW (AB-SW0004)	C- CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
709620	6LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
709660	7LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
709700	7 ELBOW TO PIPE (AB-SW0005)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
709720	7LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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			-	-	-	

12-SI-2101-UB2 (FIG NO B-SI-3)

709740 BLU LONGITUDINAL WELD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 CS.12

709760 8 PIPE TO FLANGE (AB-SW0006) C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 CS.11

709780 9 FLANGE TO PIPE (AC-SW0002) C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 CS.11

709800 9LD LONGITUDINAL WELD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 CS.12

709820 10LI LONGITUDINAL WELD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 CS.12

709840 13 PIPE TO NOZZLE (AC-SW0003) C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 CS.11

12-SI-2123-KB2 (FIG NO B-SI-6)

710340 1 NOZZLE EXTENSION TO ELBOW (FW0001) C-F PT 200-1/69 X - - AUGMENTED PSI - VOLUMETRIC SAMPLE.  
 CS.11 UTOL 800-36/37 X - -  
 UT45 X - -  
 UT45T X - -

\*\*SS-13\*\*

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					E O E	C M R	
							**CALIBRATION BLOCK**

12-SI-2123-KB2 (FIG NO B-SI-5)

710360	1LD LONGITUDINAL WELD	C-F CS.12	PT UTDL UT45 UY-5T	200-1/69 800-36/37	X - - X - - X - - X - -		EXAMINED 2.5T OF WELD LENGTH, AUGMENTED PSI.  **SS-13**
710400	2LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
710440	2 ELBOW TO PIPE (A-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
710460	3 PIPE TO PIPE (A-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
710480	4 PIPE TO VALVE (FW0002)	C-F CS.21	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

12-SI-2124-JB2 (FIG NO B-SI-6)

71096	1 VALV <sup>n</sup> TO PIPE (FW0001)	C-F CS.21	PT UTDL UTDW UT45 UT45T UT60	200-1/69 800-114/2	X - - X - - X - - - X - X - - - X -		**SS-21**
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		SEC. X:	EXAM		O	G	T
		CATGY			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
.....		.....	.....	.....	.....	.....	.....
<u>J2-SI-2124-882 (FIG NO B-SI-6)</u>							
711000	2	C-F	PT	200-1/69	X	-	-
	PIPE TO ELBOW	CS.21	UTOL	800-114/2	X	-	-
			UTOW		X	-	-
			UT45		-	X	-
			UT45T		X	-	-
							**SS-21**
711020	3	C-F	PT	200-1/69	X	-	-
	ELBOW TO PIPE	CS.21	UTOL	800-114/2	X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**SS-21**
711040	4	C-F	PT	SEE REMARKS			
	PIPE TO ELBOW	CS.21					NOT SELECTED FOR EXAMINATION.
711060	5	C-F	PT	SEE REMARKS			
	ELBOW TO PIPE (FW0002)	CS.21					NOT SELECTED FOR EXAMINATION.
711080	6	C-F	PT	SEE REMARKS			
	PIPE TO ELBOW	CS.21					NOT SELECTED FOR EXAMINATION.
711100	7	C-F	PT	SEE REMARKS			
	ELBOW TO PIPE	CS.21					NOT SELECTED FOR EXAMINATION.
711120	8	C-F	PT	SEE REMARKS			
	PIPE TO PIPE (FW0003)	CS.21					NOT SELECTED FOR EXAMINATION.

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							**CALIBRATION BLOCK**
<u>12-SI-2124-882 (FIG NO B-SI-6)</u>							
711130	8A PIPE TO PIPE (FW8250)	C-F CS.21	PT		SEE REMARKS		NOT SELECTED FOR EXAMINATION.
711140	9 PIPE TO ELBOW (FW0004)	C-F CS.21	PT		SEE REMARKS		NOT SELECTED FOR EXAMINATION.
711160	10 ELBOW TO PIPE (D-SW0002)	C-F CS.21	PT		SEE REMARKS		NOT SELECTED FOR EXAMINATION.
711180	11 PIPE TO VALVE (FW000R)	C-F CS.21	PT		SEE REMARKS		NOT SELECTED FOR EXAMINATION.
<u>12-SI-2201-UB2 (FIG NO B-SI-4)</u>							
711680	1 BRANLH CONNECTION TO PIPE (FW0017)	C-F CS.11	PT		SEE REMARKS		NOT SELECTED FOR EXAMINATION.
711700	1LD LONGITUDINAL WELD	C-F CS.12	PT		SEE REMARKS		NOT SELECTED FOR EXAMINATION.
711704	1ALU LONGITUDINAL WELD	C-F CS.12	PT		SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			M	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					Z	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
.....		.....	.....	.....	.....	.....	.....
<u>12-SI-2201-UB2 (FIG NO B-SI-4)</u>							
711706	1A PIPE TO PIPE (FWB919)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
711708	1ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
711710	1BLU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
711712	1B PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
711714	1BLD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
711720	2LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
711740	2 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>12-SI-2201-UB2 (FIG NO 8-SI-4)</u>							
711760	2LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
711800	3LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
711840	3 ELBOW TO PIPE (FW0018)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
711860	3LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
711880	4LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
711900	4 PIPE TO ELBOW (R-SW0002)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
711920	4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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<u>12-SI-2201-UB2 (FIG. NO. B-SI-4)</u>						
711960 5LU LONGITUDINAL WELD	C-F CS.12	PT 200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
712000 5 ELBOW TO PIPE (R-SW0003)	C-F CS.11	PT 200-1/69	X	-	-	
712020 5LD LONGITUDINAL WELD	C-F CS.12	PT 200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
712040 6LU LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T 200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-12**
712060 6 PIPE TO ELBOW (R-SW0004)	C-F CS.11	PT UTOL UT45 UT45T 200-1/69 800-36/37	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.  **SS-12**
712080 6LD LONGITUDINAL WELD	C-F CS.12	PT UTOL UT45 UT45T 200-1/69 800-36/37	X	-	-	EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  **SS-12**



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			C M R			
<u>12-SI-2201-UB2 (FIG NO S-SI-4)</u>						
712120 7LU LONGITUDINAL WELD	C-F CS.12	PT 200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
712160 7 ELBOW TO PIPE (R-SW0005)	C-F CS.11	PT 200-1/69	X	-	-	
712180 7LD LONGITUDINAL WELD	C-F CS.12	PT 200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
712200 8LU LONGITUDINAL WELD	C-F CS.12	PT SEE REMARKS				NOT SELECTED FOR EXAMINATION.
712220 8 PIPE TO FLANGE (R-SW0006)	C-F CS.11	PT SEE REMARKS				NOT SELECTED FOR EXAMINATION.
712240 9 FLANGE TO PIPE (S-SW0002)	C-F CS.11	PT SEE REMARKS				NOT SELECTED FOR EXAMINATION.
712260 9LD LONGITUDINAL WELD	C-F CS.12	PT SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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			*	*	*	
<u>12-SI-2201-UB2 (FIG NO B-SI-4)</u>						
712280 10LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
712300 10 PIPE TO FLANGE (S-SW003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
<u>12-SI-2216-KB2 (FIG NO B-SI-7)</u>						
712800 1 NOZZLE EXTENSION TO ELBOW (FW0001)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
712820 1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
712860 2LU LONGITUDINAL WELD	C-F CS.12	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - X - - X - -		EXAMINED 2.5T OF WELD LENGTH. AUGMENTED PSI.  ***SS-13**
712900 2 ELBOW TO PIPE (A-SW002)	C-F CS.11	PT UT0L UT45 UT45T	200-1/69 800-36/37	X - - X - - - X - X - -		AUGMENTED PSI - VOLUMETRIC SAMPLE.  ***SS-13**

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					-	-	-	
<u>12-SI-2216-KB2 (FIG NO B-SI-7)</u>								
712920 3 PIPE TO PIPE (A-SW0007)	C-F	PT	CS.11	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
712940 4 PIPE TO PIPE (A-SW0003)	C-F	PT	CS.11	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
712960 5 PIPE TO VALVE (FW0002)	C-F	PT	CS.21	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
<u>12-SI-2217-BB2 (FIG NO B-SI-7)</u>								
713460 1 VALVE TO PIPE (FW0001)	C-F	PT	CS.21	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
713480 2 PIPE TO ELBOW (A-SW0002)	C-F	PT	CS.21	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
713500 3 ELBOW TO PIPE (A-SW0003)	C-F	PT	CS.21	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
713510 4 PIPE TO ELBOW (A-SW0004)	C-F	PT	CS.21	200-1/69 800-114/2 UT45 UT45T	X	-	-	X - X X

\*\*SS-71\*\*

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				ITCM NO			
<u>12-SI-2217-882 (FIG NO B-SI-7)</u>							
713540 5 ELBOW TO PIPE (A-SW0005)	C-F CS.21	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X - X	- - X -	- - - -	**SS-21**
713580 8 PIPE TO ELBOW (A-SW0006)	C-F CS.21	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X - X	- - X -	- - - -	**SS-21**
713600 9 ELBOW TO PIPE (FW0002)	C-F CS.21	PT UTOL UT45 UT45T	200-1/69 800-114/2	X X - X	- - X -	- - - -	**SS-21**
713640 10 PIPE TO PIPE (FW0003)	C-F CS.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
713660 11 PIPE TO ELBOW (FW0004)	C-F CS.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
713680 12 ELBOW TO PIPE (FS7847)	C-F CS.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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<u>12-SI-2217-BB2 (FIG NO B-SI-7)</u>				
713700 13 PIPE TO VALVE (FW0005)	C-F CS.21	PT SEE REMARKS		NOT SELECTED FOR EXAMINATION.
<u>12-SI-2301-UB2 (FIG NO B-SI-5)</u>				
714200 1 BRANCH CONNECTION TO PIPE (FW0017)	C-F CS.11	PT SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714220 1LD LONGITUDINAL WELD	C-F CS.12	PT SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714240 2LU LONGITUDINAL WELD	C-F CS.12	PT SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714260 2 PIPE TO ELBOW (P-SW0002)	C-F CS.11	PT SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714280 2LD LONGITUDINAL WELD	C-F CS.12	PT SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714320 3LU LONGITUDINAL WELD	C-F CS.12	PT SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	F
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>12-SI-2217-882 (FIG NO 8-SI-7)</u>							
713700	13 PIPE TO VALVE (FW0005)	C-F CS.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
<u>12-SI-2301-UB2 (FIG NO 8-SI-5)</u>							
714200	1 BRANCH CONNECTION TO PIPE (FW. 7)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
714220	1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
714240	2LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
714260	2 PIPE TO ELBOW (P-SW0002)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
714280	2LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
714320	3LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	Q	T	
			ITEM NO	METHOD	PROCEDURE	R	E	H
						E	O	E
						C	M	R
						**CALIBRATION BLOCK**		REMARKS
<u>12-SI-2301-UB2 (FIG NO B-SI-5)</u>								
714360	3 ELBOW TO PIPE (FW001B)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
714380	3LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
714400	4LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
714420	4 PIPE TO ELBOW (R-SW0002)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
714440	4LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
714480	5LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
714520	5 ELBOW TO PIPE (R-SW0003)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G
		ITEM NO	METHOD	PROCEDURE	R	E
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					E	O
					E	R
					M	E
					O	R
					E	E
					C	M
					O	O
					**CALIBRATION BLOCK**	
<u>12-SI-2301-UB2 (FIG NO 11-SI-5)</u>						
714540	5LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714560	6LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714580	6 PIPE TO ELBOW (R-SW0004)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714600	6LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714640	7LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714680	7 ELBOW TO PIPE (R-SW0005)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
714700	7LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.





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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIGRATION BLOCK**		
<u>12-SI-2313-KB2 (FIG NO B-SI-7)</u>							
715340	1LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
715380	2LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
715420	2 ELBOW TO F.PE	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
715440	3 PIPE TO ELBOW	C-F C5.11	PT	200-1/69	X	-	-
715460	3LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
715500	4LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
715540	4 ELBOW TO PIPE	C-F C5.11	PT	200-1/69	X	-	-

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	UTOL	UTOW	UT45	
		ITEM NO	METHOD	PROCEDURE	C	M	R	
								REMARKS
								**CALIBRATION BLOCK**
<u>12-SI-2313-KB2 (FIG NO B-SI-7)</u>								
715560	5	C-F	PT	200-1/69	X	-	-	
	PIPE TO VALVE	C5.21	UT0L	800-114/2	X	-	-	
	(FW0002)		UTOW		X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-21**
<u>12-SI-2314-BB2 (FIG NO B-SI-7)</u>								
716060	1	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	VALVE TO PIPE	C5.21						
	(FW0001)							
716080	2	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW	C5.21						
	(A-SW0005)							
716100	3	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	ELBOW TO PIPE	C5.21						
	(A-SW0004)							
716110	4	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	PIPE TO PIPE	C5.21						
	(A-SW0006)							
716120	5	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW	C5.21						
	(A-SW0003)							
716140	6	C-F	PT	200-1/69	X	-	-	
	ELBOW TO PIPE	C5.21	UT0L	800-114/2	X	-	-	
	(A-SW0002)		UTOW		X	-	-	
			UT45		-	X	-	
			UT45T		X	-	-	**SS-21**

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		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
<u>12-SI-2314-BB2 (FIG NO B-SI-7)</u>								
716160	7	C-F	PT	200-1/69	X	-	-	
	PIPE TO VALVE	C5.21	UT0L	300-114/2	X	-	-	
	(FW0002)		UT0W		X	-	-	
			UT45		-	X	-	
			JT45T		X	-	-	**SS-21**
			UT60		-	X	-	
<u>10-SI-2101-UB2 (FIG NO B-SI-3)</u>								
716660	1	C-F	PT	200-1/69	X	-	-	
	BRANCH CONNECTION TO PIPE	C5.11						
	(FW0022)							
716680	1LD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
	LONGITUDINAL WELD	C5.12						
716685	1ALU	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12						
716690	1A	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	PIPE TO PIPE	C5.11						
	(FW5884)							
716695	1ALD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12						

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			ITEM NO	METHOD	PROCEDURE	R	E	H	
						E	O	E	
						C	M	R	
REMARKS									
**CALIBRATION BLOCK**									
-----									
<u>10-SI-2101-UB2 (FIG NO B-SI-3)</u>									
716700	2LU LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
716720	2 PIPE TO ELBOW (Y-SW0002)	C-F C5.11	PT		200-1/69	X	-	-	
716740	2LD LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
716780	3LU LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
716820	3 ELBOW TO PIPE (Y-SW0003)	C-F C5.11	PT		200-1/69	X	-	-	
716840	3LD LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
716845	3ALU LONGITUDINAL WELD	C-F C5.12	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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					O	G	T	
		ITEM NO			E	O	E	**CALIBRATION BLOCK**
-----								
<u>10-SI-2101-UB2 (FIG NO B-SI-3)</u>								
716850	3A PIPE TO PIPE (FW7835)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
716855	3ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
716860	4LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
716880	4 PIPE TO ELBOW (Y-SW0004)	C-F CS.11	PT	200-1/69	X	-	-	
716900	4LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
716940	5LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
716980	5 ELBOW TO PIPE (Y-SW0005)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.



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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

10-SI-2101-UB2 (FIG NO B-SI-3)

717180	8LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717200	8 PIPE TO FLANGE (Y-SW0008)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717220	9 FLANGE TO PIPE	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717240	9LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717260	10LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717280	10 PIPE TO FLANGE	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

10-SI-2201 UB2 (FIG NO B-SI-4)

717780	1 BRANCH CONNECTION TO PIPE (FW0016)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	P	E	H
					E	O	E
					C	M	R
REMARKS							
**CALIBRATION BLOCK**							
-----							
<u>10-SI-2201-UB2 (FIG NO B-SI-4)</u>							
717800	1LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
717805	1ALU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
717810	1A PIPE TO PIPE (FW9059)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
717815	1ALD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
717820	2LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
717840	2 PIPE TO ELBOW	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
717860	2LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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						E O E	C H R
-----						-	-
<u>10-SI-2201-UB2 (FIG NO B-SI-4)</u>							
717900	3LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717940	3 ELBOW TO PIPE	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717960	3LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717965	3ALU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717970	3A PIPE TO PIPE (FW9060)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717975	3ALD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
717980	4LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	**CALIBRATION BLOCK**
					C	M	R	
-----								
<u>10-SI-2201-UB2 (FIG NO B-SI-4)</u>								
718000	4 PIPE TO ELBOW (M-SW00C4)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
718020	4LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
718060	5LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
718100	5 ELBOW TO PIPE	C-F C5.11	PT	200-1/69	X	-	-	
718120	5LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
718140	6LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
718160	6 PIPE TO ELBOW	C-F C5.11	PT	200-1/69	X	-	-	

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		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>10-SI-2201-UB2 (FIG NO B-SI-4)</u>								
718180	6LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
718220	7LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
718260	7 ELBOW TO PIPE	C-F C5.11	PT	200-1/69	X	-	-	
718280	7LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
718300	8LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
718320	3 PIPE TO FLANGE	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
718340	9 FLANGE TO PIPE (N-SW0002)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G
		ITEM NO	METHOD	PROCEDURE	R	E
					H	
					E	O
					E	R
					C	M
					R	
<u>10-SI-2201-UB2 (FIG NO B-SI-4)</u>						
718360	9LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
718380	10LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
718400	10 PIPE TO FLANGE (N-SW0003)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
<u>10-SI-2301-UB2 (FIG NO B-SI-5)</u>						
719400	1 BRANCH CONNECTION TO PIPE (FW0016)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
719420	1LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
719425	1ALU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
719430	1A PIPE TO PIPE	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM				
			ITEM NO	METHOD	PROCEDURE	E	O	E
						C	M	R
						REMARKS		
						**CALIBRATION BLOCK**		

10-SI-2301-UB2 (FIG NO B-SI-5)

719435	1ALD LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
719440	2LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
719460	2 PIPE TO ELBOW (M-SW0002)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
719480	2LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
719520	3LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
719560	3 ELBOW TO PIPE (M-SW0003)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
719580	3LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----							
<u>10-SI-2301-UB2 (FIG NO B-SI-5)</u>							
719585	3ALU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
719590	3A PIPE TO PIPE (FW8684)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
719595	3ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
719600	3LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
719620	4 PIPE TO ELBOW (M-SW0004)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
719640	4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
719680	5LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G
		CATGY	EXAM		R	E
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O
					E	MARKS
					C	M
					R	**CALIBRATION BLOC**
					-	-
<u>10-SI-2301-082 (FIG NO B-SI-5)</u>						
719720	5 ELBOW TO PIPE (M-SW0005)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
719740	5LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
719745	5ALU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
719750	5A PIPE TO PIPE (FW8751)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
719755	5ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
719760	6LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
719780	6 PIPE TO ELBOW (FS8752)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.



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		SEC. XI				O	G	
		CATGY	EXAM				R	E
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	
					E	O	E	
					REMARKS			
					**CALIBRATION BLOCK**			
<u>10-SI-2301-UB2 (FIG NO B-SI-5)</u>								
719800	6LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.	
719840	7LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.	
719880	7 ELBOW TO PIPE (M-SW0007)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.	
719900	7LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.	
719920	8LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.	
719940	8 PIPE TO FLANGE (M-SW0008)	C-F C5.11	PT	200-1/69	X	-		
719960	9 FLANGE TO PIPE (N-SW0003)	C-F C5.11	PT	200-1/69	X	-		

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<u>10-SI-2301-UB2 (FIG NO 8-SI-5)</u>								
719980	9LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
720000	10LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
720020	10 PIPE TO FLANGE (N-SW0002)	C-F C5.11	PT	200-1/69	X	-	-	
<u>8(10)-SI-2102-PB2 (FIG NO 8-SI-8)</u>								
720500	1 FLANGE TO REDUCER	C-F C5.11	PT	200-1/69	X	-	-	
<u>8-SI-2102-PB2 (FIG NO 8-SI-8)</u>								
721000	1 REDUCER TO PIPE	C-F C5.11	PT	200-1/69	X	-	-	
721020	1LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
721040	ZLU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**
<u>B-SI-2102-PB2 (FIG NO B-SI-8)</u>							
721060	2 PIPE TO ELBOW	C-F C5.11	PT	200-1/69	X	-	-
721080	2LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
721120	3LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
721160	3 ELBOW TO FLANGE	C-F C5.11	PT	200-1/69	X	-	-
721180	4 FLANGE TO PIPE	C-F C5.11	PT	200-1/69	X	-	-
721200	4LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
721220	5LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
REMARKS							
**CALIBRATION BLOCK**							
<u>B-SI-2102-PB2 (FIG NO B-SI-B)</u>							
721420	7LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
721460	8LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
721500	8 ELBOW TO PIPE (D-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
721520	8LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
721540	9LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
721560	9 PIPE TO FLANGE (D-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
721580	10 FLANGE TO PIPE (T-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REMARKS	
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**	
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8-SI-2102-P82 (FIG NO 8-SI-8)

721600	10LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
721620	11LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
721640	11 PIPE TO VALVE (FW0003)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

8-SI-2105-K82 (FIG NO 8-SI-8)

722000	1 VALVE TO PIPE (FW0001)	C-F C5.11	PT	200-1/69	X	-	-	
722010	2 PIPE TO ELBOW (A-SW002)	C-F C5.11	PT	200-1/69	X	-	-	
722020	2LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
722040	3LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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<u>B-SI-2105-KB2 (FIG NO B-SI-B)</u>				
722060 3 ELBOW TO PIPE (FW0002)	C-F PT CS.11	200-1/69	X - -	
722070 4 PIPE TO PIPE (B-SW0003)	C-F PT CS.11	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
722120 5 PIPE TO ELBOW (FW0003)	C-F PT CS.11	200-1/69	X - -	
722125 5LD LONGITUDINAL WELD	C-F PT CS.12	200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.
722128 6LU LONGITUDINAL WELD	C-F PT CS.12	200-1/69	X - -	EXAMINED 2.5T OF WELD LENGTH.
722130 6 ELBOW TO PIPE (C-SW0002)	C-F PT CS.11	200-1/69	X - -	
722180 7 PIPE TO ELBOW (FW0004)	C-F PT CS.11	200-1/69	X - -	

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**

B-SI-2105-KB2 (FIG NO B-SI-8)

722185 7LD LONGITUDINAL WELD C-F PT 200-1/69 X - - EXAMINED 2.5T OF WELD LENGTH.  
 C5.12

722187 8LU LONGITUDINAL WELD C-F PT 200-1/69 X - - EXAMINED 2.5T OF WELD LENGTH.  
 C5.12

722190 8 ELBOW TO PIPE (D-SW0002) C-F PT 200-1/69 X - -  
 C5.11

722200 9 PIPE TO PIPE (FW0028) C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 C5.11

J-SI-2105-KB2 (FIG NO B-SI-9)

722210 10 PENETRATION TO PIPE (FW0011) C-F PT 200-1/69 X - -  
 C5.11

722220 11 PIPE TO VALVE (FW0012) C-F PT 200-1/69 X - -  
 C5.11

722230 12 VALVE TO PIPE (FW3501) C-F PT 200-1/69 X - -  
 C5.11



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			
		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>B-SI-2105-KB2 (FIG NO B-SI-9)</u>							
722280	13 PIPE TO ELBOW (F-SW0004)	C-F CS.11	PT	200-1/69	X	-	-
722285	13LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
722287	14LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
722290	14 ELBOW TO PIPE (F-SW0003)	C-F CS.11	PT	200-1/69	X	-	-
722300	15 PIPE TO VALVE (FW0030)	C-F CS.11	PT	200-1/69	X	-	-
722310	16 VALVE TO PIPE (FW0031)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
722320	17 PIPE TO ELBOW (F-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-----		
<u>8-SI-2105-KB2 (FIG NO 8-SI-9)</u>							
722330	17LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722350	18LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722370	18 ELBOW TO PIPE (FW0016)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722380	19 PIPE TO ELBOW (FW0017)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722390	19LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722410	20LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722430	20 ELBOW TO PIPE (H-SWC004)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>B-SI-2105-KB2 (FIG NO B-SI-9)</u>							
722440	21 PIPE TO ELBOW (H-SW0003)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
722450	21LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
722470	22LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
722490	22 ELBOW TO PIPE (H-SW0002)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
722500	23 PIPE TO ELBOW (FW0018)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
722510	23LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
722530	24LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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		ITEM NO	METHOD	PROCEDURE	E O E	
						C M R
						**CALIBRATION BLOCK**
<u>8-SI-2105-KB2 (FIG NO B-SI-9)</u>						
72255C	24 ELBOW TO PIPE (J-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
722560	25 PIPE TO ELBOW (FW0019)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
722570	25LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
722590	26LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
722610	26 ELBOW TO PIPE (K-SW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
722620	27 PIPE TO ELBOW (K-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
722630	27LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T			
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
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<u>B-SI-2105-B2 (FIG NO B-SI-9)</u>								
722650	28LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
722670	28 ELBOW TO PIPE (FW0020)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
722680	29 PIPE TO PIPE (FW0021)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
722690	30 PIPE TO PIPE (M-SW0005)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
722740	31 PIPE TO ELBOW (M-SW0002)	C-F CS.11	PT	200-1/69	X	-	-	
722742	31LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
722744	S2LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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						E O E	C M R
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<u>8-SI-2105-KB2 (FIG NO 8-SI-9)</u>							
722750	32 ELBOW TO PIPE (FW0022)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722760	33 PIPE TO PIPE (N-SW0002)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722810	34 PIPE TO ELBOW (N-SW0003)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722812	34LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722814	35LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722820	35 ELBOW TO PIPE (FW0023)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
722830	36 PIPE TO PIPE (FW0024)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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			ITEM NO	METHOD	PROCEDURE	R	E
						E	O
						E	R
						C	M
						R	**CALIBRATION BLOCK**
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<u>B-SI-2105-KB2 (FIG NO B-SI-9)</u>							
722880	37 PIPE TO ELBOW (R-SW0002)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
722882	37LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.12					
722884	38LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.12					
722890	38 ELBOW TO PIPE (R-SW0003)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
722940	39 PIPE TO ELBOW (R-SW0004)	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.11					
722942	39LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.12					
722944	40LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
		C5.12					

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		ITEM NO	METHOD	PROCEDURE	R E H
					E O E
					C M R
					REMARKS
					**CALIBRATION BLOCK**
<u>B-SI-2105-KB2 (FIG NO B-SI-9)</u>					
722950	40 ELBOW TO PIPE (FW0025)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
723000	41 PIPE TO ELBOW (FW0026)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
723002	41LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
723004	42LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
723010	42 ELBOW TO PIPE (T-SW0002)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
723060	43 PIPE TO ELBOW (T-SW0003)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
723062	43LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
			ITEM NO	METHOD	PROCEDURE	E	O	E
						C	M	R
							REMARKS	
							**CALIBRATION BLOCK**	

B-SI-2105-KB2 (FIG NO B-SI-9)

723064	44LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
723070	44 ELBOW TO PIPE (T-SW0004)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
723075	45 PIPE TO TEE	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						

B(10)-SI-2202-PB2 (FIG NO B-SI-10)

723500	1 FLANGE TO REDUCER (A-SW0002)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
723510	1LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						

B-SI-2202-PB2 (FIG NO B-SI-10)

724020	1LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
724040	1 REDUCER TO PIPE (A-SW0003)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T
		ITEM NO	METHOD	PROCEDURE	R E H
					E O E
					C M R
					REMARKS

B-91-2202-P82 (FIG NO B-91-10)

724060	1LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
724080	2LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
724100	2 PIPE TO ELBOW (A-SW0004)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
724120	2LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
724160	3LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
724200	3 ELBOW TO FLANGE (A-SW0005)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
724220	4 FLANGE TO PIPE (B-SW0002)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**
<u>B-SI-2202-P82 (FIG NO B-SI-10)</u>							
724240	4LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
724260	5LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-
724280	5 PIPE TO ELBOW (B-SW0003)	C-F C5.11	PT	200-1/69	X	-	-
724300	5LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
724340	6LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
724380	6 ELBOW TO PIPE (FW0001)	C-F C5.11	PT	200-1/69	X	-	-
724400	6LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	F
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-	-	-
<u>8-SI-2202-P82 (FIG NO 8-SI-10)</u>							
724405	6ALU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
724410	6A PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
724415	6ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
724420	7LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
724440	7 PIPE TO ELBOW (FW0002)	C-F CS.11	PT	200-1/69	X	-	
724460	7LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
724480	8LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	C	G	T
		ITEM NO	MEIHO	PROCEDURE	R	C	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					-----		
<u>B-SI-2202-PB2 (FIG NO B-SI-10)</u>							
724500	8 ELBOW TO PIPE (D-SW0002)	C-F CS.11	PT	200-1/69	X	-	-
724520	8LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
724560	9LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
724600	9 PIPE TO FLANGE (D-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
724660	10 FLANGE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
724680	10LP LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
724700	11LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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			ITEM NO	METHOD	PROCEDURE	E	O	E
						C	M	R
								REMARKS
								**CALIBRATION BLOCK**

8-SI-2202-P82 (FIG NO 8-SI-10)

724740	11	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
	PIPE TO VALVE (FW0003)	C5.11			

8-SI-2205-K82 (FIG NO 8-SI-10)

725240	1	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
	VALVE TO PIPE (FW0001)	C5.11			

725260	2	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW (A-SW0003)	C5.11			

725280	2LD	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12			

725320	3LU	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
	LONGITUDINAL WELD	C5.12			

725360	3	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
	ELBOW TO PIPE (A-SW0002)	C5.11			

725380	4	C-F	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
	PIPE TO ELBOW (FW0002)	C5.11			

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		ITEM NO	METHOD			
						**CALIBRATION BLOCK**
<u>B-SI-2205-KB2 (FIG NO B-SI-10)</u>						
725400	4LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
725440	5LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
725480	5 ELBOW TO PIPE (B-SW0002)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
725500	6 PIPE TO ELBOW (FWG003)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				
725520	6LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
725560	7LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.12				
725600	7 ELBOW TO PIPE (C-SW0002)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		C5.11				

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T	RE H
		ITEM NO	METHOD	PROCEDURE	E O E	REMARKS
					C M R	**CALIBRATION BLOCK**
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8-SI-2205-KB2 (FIG NO B-SI-10)

725620	8 PIPE TO PIPE (FW0025)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
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8-SI-2205-KB2 (FIG NO B-SI-11)

725640	9 PENETRATION TO PIPE (FW0027)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
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725660	10 PIPE TO ELBOW (S-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
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725680	10LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
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725720	11LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
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725760	11 ELBOW TO PIPE (S-SW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
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725780	12 PIPE TO VALVE (FW0028)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
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						C	M	R	
-----									
<u>R-SI-2205-KB2 (FIG NO B-SI-11)</u>									
725800	13 VALVE TO PIPE (FW0029)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11							
725820	14 PIPE TO ELBOW (T-SW0002)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11							
725840	14LD LONGITUDINAL WELD	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12							
725880	15LU LONGITUDINAL WELD	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12							
725920	15 ELBOW TO PIPE (T-SW0003)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11							
725930	16 PIPE TO PIPE (FW3526)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11							
725940	17 PIPE TO VALVE (FW0030)	C-F	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11							

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		SEC. XI			O	G	T
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NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
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<u>B-SI-2205-KB2 (FIG NO B-SI-11)</u>							
725960	18 VALVE TO PIPE (FW0031)	C-F CS.11	PT	200-1/69	X	-	-
725980	19 PIPE TO ELBOW (U-SW0004)	C-F CS.11	PT	200-1/69	X	-	-
726000	19LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	- EXAMINED 2.5T OF WELD LENGTH.
726040	20LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	- EXAMINED 2.5T OF WELD LENGTH.
726080	20 ELBOW TO PIPE (U-SW0003)	C-F CS.11	PT	200-1/69	X	-	-
726100	21 PIPE TO ELBOW (U-SW0002)	C-F CS.11	PT	200-1/69	X	-	-
726120	21LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	- EXAMINED 2.5T OF WELD LENGTH.

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		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
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<u>B-SI-2205-KB2 (FIG NO B-SI-11)</u>								
726160	22LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
726200	22 ELBOW TO PIPE (FW0032)	C-F C5.11	PT	200-1/69	X	-	-	
726220	23 PIPE TO PIPE (FW0014)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
726240	24 PIPE TO PIPE (FW0015)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
726260	25 PIPE TO PIPE (FW1377)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
726360	26 PIPE TO ELBOW (K-SW0002)	C-F C5.11	PT	200-1/69	X	-	-	
726365	26LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
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					**CALIBRATION BLOCK**		
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<u>8-SI-2205-KB2 (FIG NO B-SI-11)</u>							
726370	27LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
726380	27 ELBOW TO PIPE (K-SW0003)	C-F CS.11	PT	200-1/69	X	-	
726400	28 PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
726410	29 PIPE TO ELBOW (FW0016)	C-F CS.11	PT	200-1/69	X	-	
726420	29LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
726460	30LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
726500	30 ELBOW TO PIPE (J-SW0003)	C-F CS.11	PT	200-1/69	X	-	

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
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<u>B-SI-2205-KB2 (FIG NO B-SI-11)</u>							
726520	31 PIPE TO PIPE (J-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
726540	32 PIPE TO ELBOW (H-0017)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
726560	32LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
726600	33LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
726640	33 ELBOW TO PIPE (K-SW0002)	C-F CS.11	PT	200-1/69	X	-	
726660	34 PIPE TO PIPE (K-SW0005)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
726680	35 PIPE TO PIPE (FW0018)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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.....		ITEM NO	METHOD	PROCEDURE	R	E	H
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<u>8-SI-2205-K82 (FIG NO 8-SI-11)</u>							
726700	36 PIPE TO PIPE (L-SW002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
726720	37 PIPE TO ELBOW (FW0019)	C-F CS.11	PT	200-1/69	X	-	-
726740	37LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
726780	38LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
726820	38 ELBOW TO PIPE (M-SW003)	C-F CS.11	PT	200-1/69	X	-	-
726840	39 PIPE TO ELBOW (M-SW002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
726860	39LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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					REMARKS	
SUMMARY EXAMINATION AREA	ASME	SEC. XI	CATG	EXAM	REMARKS	
NUMBER IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	**CALIBRATION BLOCK**		
<u>8-SI-2205-KB2 (FIG NO 8-SI-11)</u>						
726900	40LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
726940	40 ELBOW TO PIPE (FW020)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
726960	41 PIPE TO PIPE (FW021)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
726980	42 PIPE TO ELBOW (P-SW002)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
727000	42LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
727040	43LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	
727080	43 ELBOW TO PIPE (P-SW003)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.	

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		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
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<u>B-SI-2205-KB2 (FIG. NO. B-SI-11)</u>								
727100	44 PIPE TO ELBOW (P-SW0004)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
727120	44LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED F/A EXAMINATION.
727160	45LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
727200	45 ELBOW TO PIPE (FW0022)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
727220	46 PIPE TO ELBOW (FW0023)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
727240	46LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
727280	47LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.



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NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O G Y	RE H
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		ITEM NO	METHOD		C M R	**CALIBRATION BLOCK**
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<u>B-SI-2205-KB2 (FIG NO B-SI-11)</u>						
727320	47 ELBOW TO PIPE (R-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
727325	47A PIPE TO PIPE (FW7950)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
727330	47B PIPE TO PIPE (FW7951)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
727340	48 PIPE TO ELBOW (R-SW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
727360	48LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
727400	49LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
727440	49 ELBOW TO PIPE (R-SW0004)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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		ITEM NO	METHOD	PROCEDURE	R	E
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<u>B-SI-2205-KB2 (FIG NO B-SI-11)</u>						
727460	50 PIPE TO TEE (C-0024)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
<u>B(10)-SI-2302-PB2 (FIG NO B-SI-12)</u>						
727750	1 FLANGE TO REDUCER (A-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
727760	1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
<u>B-SI-2302-PB2 (FIG NO B-SI-12)</u>						
728040	1 REDUCER TO PIPE (A-SW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
728060	1LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
728080	2LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
728100	2 PIPE TO ELBOW (A-SW0004)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
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<u>8-SI-2302-PB2 (FIG NO P-SI-12)</u>								
728120	2LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
728160	3LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
728200	3 ELBOW TO FLANGE (A-SW0005)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
728220	4 FLANGE TO PIPE (B-SW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
728240	4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
728260	5LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
728280	5 PIPE TO ELBOW (B-SW0003)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
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					REMARKS		
					**CALIBRATION BLOCK**		
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<u>B-SI-2302-P82 (FIG NO B-SI-12)</u>							
728300	5LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
728340	6LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
728380	6 ELBOW TO PIPE (FW0001)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
728400	6LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
728405	6ALU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
728410	6A PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
728415	6ALD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

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NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O	G	T
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<u>B-SI-2302-P82 (FIG NO B-SI-12)</u>							
728420	7LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
728440	7 PIPE TO ELBOW (FW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
728460	7LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
728500	8LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
728540	8 ELBOW TO PIPE (D-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
728560	9LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
728580	9LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/89	X	-	EXAMINED 2.5T OF WELD LENGTH.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHCD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
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E-SI-2302-PB2 (FIG NO B-SI-12)

728600	9 PIPE TO FLANGE (D-SW0002)	C-F CS.11	PT	200-1/69	X	-	-	
728620	10 FLANGE TO PIPE (E-SW0002)	C-F CS.11	PT	200-1/69	X	-	-	
728640	10LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
728660	11LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
728680	11 PIPE TO VALVE (FW0003)	C-F CS.11	PT	200-1/69	X	-	-	

B-SI-2305-KB2 (FIG NO B-SI-12)

729200	1 VALVE TO PIPE (FW0001)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
729220	2 PIPE TO ELBOW (A-SW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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		ITEM NO	METHOD	PROCEDURE	R	E
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					**CALIBRATION BLOCK**	

8-T1-2305-KB2 (FIG. NO. P-SI-12)

729240	2LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
729280	3LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
729320	3 ELBOW TO PIPE (FW0002)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
729340	4 PIPE TO ELBOW (FW0003)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
729360	4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
729400	5LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
729440	5 ELBOW TO PIPE (C-SW0002)	C-F CS.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E O E	
					C M R	**CALIBRATION BLOCK**

8-SI-2305-Y92 (FIG NO 8-SI-12)

729460 6 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO ELBOW  
 (FW0004) CS.11

729480 6LD C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

729520 7LU C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 LONGITUDINAL WELD CS.12

729560 7 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 ELBOW TO PIPE CS.11  
 (D-SW0002)

729580 8 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO PIPE CS.11  
 (FW0018)

8-SI-2305-KB2 (FIG NO 8-SI-13)

729600 9 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PENETRATION TO PIPE CS.11  
 (FW0009)

729620 10 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO VALVE CS.11  
 (FW0010)



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T	
			ITEM NO	METHOD	R E H	REMARKS
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<u>B-SJ-2305-KB2 (FIG NO B-SJ-13)</u>						
729640	11 VALVE TO PIPE (FW0024)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		CS.11				
729660	12 PIPE TO ELWOW (F-SW0004)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		CS.11				
729680	12LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		CS.12				
729720	13LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		CS.12				
729760	13 ELBOW TO PIPE (F-SW0003)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		CS.11				
729780	14 PIPE TO VALVE (FW0020)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		CS.11				
729800	15 VALVE TO PIPE (FW0021)	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
		CS.11				

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SUMMARY EXAMINATION AREA		ASME	EXAM		N O	REMARKS
NUMBER	IDENTIFICATION	SEC. XI	ITEM NO	METHOD	PROCEDURE	
-----						
<u>B-SI-2305-KB2 (FIG NO B-SI-13)</u>						
729820	16 PIPE TO ELBOW (F-SW0002)	C-F CS.11	PT		200-1/69	X - -
729840	16LD LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X - - EXAMINED 2.5T OF WELD LENGTH.
729880	17LU LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X - - EXAMINED 2.5T OF WELD LENGTH.
729920	17 ELBOW TO PIPE (FW0012)	C-F CS.11	PT		200-1/69	X - -
729940	18 PIPE TO ELBOW (FW0013)	C-F CS.11	PT		200-1/69	X - -
729960	18LD LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X - - EXAMINED 2.5T OF WELD LENGTH.
730000	19LU LONGITUDINAL WELD	C-F CS.12	PT		200-1/69	X - - EXAMINED 2.5T OF WELD LENGTH.

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SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	M O D			REMARKS
					E	C	R	
-----								
<u>B-SI-2305-KB2 (FIG NO B-SI-13)</u>								
730040	19 ELBOW TO PIPE (H-SW0002)	C-F CS.11	PT	200-1/69	X	-	-	
730060	20 PIPE TO ELBOW (FW0014)	C-F CS.11	PT	200-1/69	X	-	-	
730080	20LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
730120	21LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
730160	21 ELBOW TO PIPE (J-SW0002)	C-F CS.11	PT	200-1/69	X	-	-	
730200	22 PIPE TO TEE (FW0017)	C-F CS.11	PT	200-1/69	X	-	-	
<u>6-SI-2106-DB2 (FIG NO B-SI-14)</u>								
732000	1 FLANGE TO PIPE (A-SW0002)	C-F CS.11	PT UTOL UTOW UT45 UT45T	200-1/69 600-31/19	X X - - X	- - X X -	- - - - -	AUGMENTED PSI - VOLUMETRIC SAMPLE. HL&P ELECTED TO EXCAVATE PORTIONS OF WELD CONTAINING UTOW INDICATIONS EVALUATED TO BE LACK OF FUSION. SEE CNF 040A. REEXAMINATION AFTER REPAIR REVEALED ONE UTOW CODE ALLOWABLE INDICATION. SEE CNF 088. **SS-23**



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SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>6-SI-2106-DB2 (FIG NO B-SI-14)</u>								
732100	7	C-F	PT	200-1/69	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
	ELBOW TO PIPE	C5.11	UTOL	600-31/19	X	-	-	
	(B-SW0005)		UT45		-	X	-	
			UT45T		X	-	-	**SS-23**
732120	8	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
	PIPE TO PIPE	C5.11						
	(FW0097)							
732140	9	C-F	PT	200-1/69	X	-	-	
	PIPE TO FLANGE	C5.11						
	(BA-SW0002)							
732160	10	C-F	PT	200-1/69	X	-	-	
	FLANGE TO PIPE	C5.11						
	(FW0002)							
732180	11	C-F	PT	200-1/69	X	-	-	
	PIPE TO FLANGE	C5.11						
	(FW0003)							
732200	12	C-F	PT	200-1/69	X	-	-	
	FLANGE TO PIPE	C5.11						
	(D-SW0003)							
732220	13	C-F	PT	200-1/69	X	-	-	
	PIPE TO ELBOW	C5.11						
	(D-SW0002)							

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		SEC. XI			G	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----							
<u>6-SI-2106-DB2 (FIG NO B-SI-14)</u>							
732240	14 ELBOW TO PIPE (FW0004)	C-F CS.11	PT	200-1/69	X	-	-
732250	14A PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
732260	15 PIPE TO VALVE (FW0005)	C-F CS.11	PT	200-1/69	X	-	-
732280	16 VALVE TO PIPE (FW0006)	C-F CS.11	PT	200-1/69	X	-	-
732300	17 PIPE TO ELBOW (F-SW0003)	C-F CS.11	PT	200-1/69			
732320	18 ELBOW TO PIPE (F-SW0002)	C-F CS.11	PT	200-1/69	X	-	-
732340	19 PIPE TO ELBOW (FW0007)	C-F CS.11	PT	200-1/69	X	-	-

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>6-SI-2106-DB2 (FIG NO B-SI-14)</u>							
732360	20 ELBOW TO PIPE (G-SW0002)	C-F C5.11	PT	200-1/69	X	-	-
732380	21 PIPE TO ELBOW (FW0008)	C-F C5.11	PT	200-1/69	X	-	-
732400	22 ELBOW TO PIPE (H-SW0002)	C-F C5.11	PT	200-1/69	X	-	-
732420	23 PIPE TO PIPE (FW0009)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
<u>6-SI-2106-DB2 (FIG NO B-SI-15)</u>							
732440	24 PENETRATION TO PIPE (FW0042)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
732460	25 PIPE TO VALVE (FW0043)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
732480	26 VALVE TO PIPE (FW0044)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O G T	RE H
		ITEM NO	METHOD	PROCEDURE	E O E	REMARKS
-----		-----	-----	-----	C M R	**CALIBRATION BLOCK**
					- - -	-----
<u>6-SI-2106-0B2 (FIG NO B-SI-15)</u>						
732500	27 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732520	28 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732540	29 PIPE TO VALVE (FW0078)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732560	30 VALVE TO PIPE (FW0079)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732580	31 PIPE TO ELBOW (FW0047)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732600	32 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732620	33 PIPE TO ELBOW (FW0048)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	
-----					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>6-SI-2106-DB2 (FIG NO B-SI-15)</u>								
732640	34 ELBOW TO PIPE (M-SW0004)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
732680	35 PIPE TO ELBOW (M-SW0005)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
732700	36 ELBOW TO PIPE (M-SW0004)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
732720	37 PIPE TO ELBOW (M-SW0003)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
732740	38 ELBOW TO PIPE (M-SW0002)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
732760	39 PIPE TO ELBOW (FW0049)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
732780	40 ELBOW TO PIPE (N-SW0004)	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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				C M	R
<u>6-SI-2106-DB2 (FIG NO B-SI-15)</u>					
732800 41 PIPE TO PIPE (N-SW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732840 42 PIPE TO ELBOW (N-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732860 43 ELBOW TO PIPE (FW0050)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732880 44 PIPE TO PIPE (FW1582)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
<u>6-SI-2106-DB2 (FIG NO B-SI-16)</u>					
732920 45 PIPE TO ELBOW (FW0035)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732940 46 ELBOW TO PIPE (Q-SW0009)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
732960 47 PIPE TO TEE (Q-SW0008)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T	RE H
		ITEM NO	METHOD	PROCEDURE	E O E	REMARKS
						**CALIBRATION BLOCK**
-----						
<u>6-SI-2106-DB2 (FIG NO B-SI-16)</u>						
772980	48 TEE TO PIPE (Q-SW0007)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
733000	49 PIPE TO ELBOW (Q-SW0006)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
733020	50 ELBOW TO PIPE (Q-SW0005)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
733040	51 PIPE TO ELBOW (Q-SW0004)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
733060	52 ELBOW TO PIPE (Q-SW0003)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
733080	53 PIPE TO PIPE (Q-SW0014)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
733100	54 PIPE TO ELBOW (Q-SW0002)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	METHOD	PROCEDURE	REMARKS
		ITEM NO	METHOD				
							**CALIBRATION BLOCK**

6-SI-2106-DB2 (FIG NO B-SI-16)

733120	55 ELBOW TO PIPE (FW0038)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
733140	56 PIPE TO ELBOW (R-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
733160	57 ELBOW TO PIPE (FW0039)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
733200	58 PIPE TO FLANGE (S-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
733220	59 FLANGE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
733240	60 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
733260	61 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R

REMARKS  
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6-SI-2106-DB2 (FIG NO B-SI-16)

733280	62 PIPE TO ELBOW	C-F C5.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
733300	63 ELBOW TO PIPE (FW5569)	C-F C5.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
733320	64 PIPE TO VALVE (FW0040)	C-F C5.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

6-SI-2107-BB2 (FIG NO B-SI-16)

733820	1 VALVE TO PIPE (FW0001)	C-F C5.21	PT UT0L UT45 UT45T UTOW UT60	200-1/69 800-114/2  600-31/19	X - - X - - X - - X - - - - X - X -			ONE UTOW CODE ALLOWABLE INDICATION. SEE CNF 046. LIMITED UT45/UT60 ON THE VALVE SIDE DUE TO VALVE CONFIGURATION. SEE APPENDIX L OF THIS REPORT. ***SS-9**
733840	2 PIPE TO ELBOW (A-SW0002)	C-F C5.21	PT UT0L UT45 UT45T	200-1/69 800-114/2	X - - X - - - X - X - -			***SS-9**
733860	3 ELBOW TO PIPE (A-SW0003)	C-F C5.21	PT UT0L UT45 UT45T	200-1/69 800-114/2	X - - X - - - X - X - -			***SS-9**

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

6-SI-2107-882 (FIG NO B-SI-16)

733880	4 PIPE TO ELBOW (A-SW0004)	C-F C5.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
733900	5 ELBOW TO PIPE (A-SW0005)	C-F C5.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
733920	6 PIPE TO ELBOW (A-SW0006)	C-F C5.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
733940	7 ELBOW TO PIPE (A-SW0007)	C-F C5.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
733960	8 PIPE TO VALVE (FW0002)	C-F C5.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		

6-SI-2109-882 (FIG NO B-SI-16)

734460	1 TEE TO PIPE (FW0001)	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		
734480	2 PIPE TO FLANGE	C-F C5.11	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.		



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SUMMARY EXAMINATION AREA				N	O	REMARKS
NUMBER	IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	O G T R E H E O E C M R	
-----						
**CALIBRATION BLOCK**						
-----						

6-SI-2109-DB2 (FIG NO B-SI-16)

734640	10	C-F	PT	200-1/69	X - -	
	ELBOW TO PIPE	C5.21	UT0L	800-114/2	X - -	
			UT45		- X -	
			UT45T		X - -	**SS-9**

734660	11	C-F	PT	200-1/69	X - -	TWO UTOW CODE ALLOWABLE INDICATIONS.
	PIPE TO VALVE	C5.21	UT0L	800-114/2	X - -	SEE CNF 047. LIMITED UT45/UT60 ON THE
	(FW0002)		UT45		- X -	VALVE SIDE DUE TO VALVE CONFIGURATION.
			UT45T		X - -	SEE APPENDIX L OF THIS REPORT.
			UTOW	600-31/19	- - X	**SS-9**
			UT60		- X -	

6-SI-2110-8B2 (FIG NO B-SI-16)

735160	1	C-F	PT	200-1/69	X - -	ONE UTOW CODE ALLOWABLE INDICATION. SEE
	VALVE TO PIPE	C5.21	UT0L	800-114/2	X - -	CNF 048. LIMITED UT45/UT60 ON THE VALVE
	(FW0001)		UT45		- X -	SIDE DUE TO VALVE CONFIGURATION. SEE
			UT45T		X - -	APPENDIX L OF THIS REPORT.
			UTOW	600-31/19	- - X	**SS-9**
			UT60		- X -	

735180	2	C-F	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
	PIPE TO VALVE	C5.21				
	(FW0002)					

6-SI-2118-UB2 (FIG NO B-SI-1)

735680	1	C-F	PT	200-1/69	X - -	
	BRANCH CONNECTION TO PIPE	C5.11				
	(FW0001)					



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<u>6-SI-2118-UB2 (FIG NO B-SI-1)</u>								
735700	1LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
735720	2LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
735740	2 PIPE TO ELBOW (A-SW0002)	C-F C5.11	PT	200-1/69	X	-	-	
735760	2LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
735800	3LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
735840	3 ELBOW TO PIPE (FW5554)	C-F C5.11	PT	200-1/69	-	-	X	THREE LINEAR PT INDICATIONS. SEE CNF 020. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS.
735860	3LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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				-	-	-	
<u>6-SI-2118-UB2 (FIG NO B-SI-1)</u>							
735880 4LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
735885 4 PIPE TO PIPE (FW5555)	C-F CS.11	PT	SPE REMARKS				NOT SELECTED FOR EXAMINATION.
735890 4LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
735895 5LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
735900 5 PIPE TO ELBOW (A-SW0004)	C-F CS.11	PT	200-1/69	X	-	-	
735920 5LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
735960 6LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	C	F	
			ITEM NO	METHOD	PROCEDURE	E	O	E
						C	M	R
								REMARKS
								**CALIBRATION BLOCK**
<u>6-SI-2118-UB2 (FIG NO B-SI-1)</u>								
736000	6 ELBOW TO PIPE (FW0002)	C-F	PT	200-1/69	X	-	-	
		C5.11						
736020	6LD LONGITUDINAL WELD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
		C5.12						
736040	7LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
736060	7 PIPE TO PIPE (FW0003)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
736080	7LD LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
736100	8LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.12						
736120	8 PIPE TO PIPE (C-SW0007)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						

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				C	M	R	
-----							
<u>6-SI-2118-UB2 (FIG NO B-SI-1)</u>							
736140 8LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
736160 9LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
736165 9 PIPE TO PIPE (C-SW0008)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
736170 9LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
736175 10LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
736180 10 PIPE TO ELBOW (C-SW0004)	C-F CS.11	PT	200-1/69	X	-	-	
736200 10LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.

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		SEC. XI	CATGY	EXAM	O	G	T
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>6-SI-2118-UB2 (FIG NO B-SI-1)</u>							
736240	11LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
736280	11 ELBOW TO PIPE (C-SW0003)	C-F C5.11	PT	200-1/69	X	-	
736300	11LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
736320	12LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
736340	12 PIPE TO ELBOW (C-SW0002)	C-F C5.11	PT	200-1/69	X	-	
736360	12LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
736400	13LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITSM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>6-SI-2118-UB2 (FIG NO B-SI-1)</u>							
736440	13 ELBOW TO PIPE (FW0004)	C-F CS.11	PT	200-1/69	X	-	-
736500	14 PIPE TO PIPE (FW0005)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
736560	15 PIPE TO PIPE (FW0006)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
736580	15LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
736600	16LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
736620	16 PIPE TO PIPE (FWS286)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
736640	16LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
			ITEM NO	METHOD	PROCEDURE	R	E	H
						E	O	E
						C	M	R
						REMARKS		
						**CALIBRATION BLOCK**		
						-----		
<u>6-SI-2118-UB2 (FIG NO B-SI-1)</u>								
736660	17LU LONGITUDINAL WELD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
		C5.12						
736680	17 PIPE TO ELBOW (FW0023)	C-F	PT	200-1/69	X	-	-	
		C5.11						
736700	17LD LONGITUDINAL WELD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
		C5.12						
736740	18LU LONGITUDINAL WELD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
		C5.12						
736780	18 ELBOW TO PIPE	C-F	PT	200-1/69	X	-	-	
		C5.11						
736800	18LD LONGITUDINAL WELD	C-F	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
		C5.12						
736810	19LU LONGITUDINAL WELD	C-F	PT	SEE REMARKS				HOT SELECTED FOR EXAMINATION.
		C5.12						

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
-----		-----	-----	-----	C	M	R	-----
					-	-	-	
<u>6-91-2118-UB2 (FIG NO B-SI-1)</u>								
736811	19 PIPE TO PIPE (FW1683)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
736812	19LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
736820	20LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
736840	20 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	X	-	-	
736860	20LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
736900	21LU LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-	EXAMINED 2.5T OF WELD LENGTH.
736940	21 ELBOW TO PIPE	C-F CS.11	PT	200-1/69	X	-	-	



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
					R	E	H
		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
REMARKS							
**CALIBRATION BLOCK**							
<u>6-SI-2118-UB2 (FIG NO 6-SI-1)</u>							
736960	21LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	-
EXAMINED 2.5T OF WELD LENGTH.							
736970	22LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			
NOT SELECTED FOR EXAMINATION.							
736972	22 PIPE TO PIPE (G-SW0008)	C-F CS.11	PT	SEE REMARKS			
NOT SELECTED FOR EXAMINATION.							
736974	22LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			
NOT SELECTED FOR EXAMINATION.							
736980	23LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			
NOT SELECTED FOR EXAMINATION.							
737000	23 PIPE TO PIPE (FW1375)	C-F CS.11	PT	SEE REMARKS			
NOT SELECTED FOR EXAMINATION.							
737020	23LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			
NOT SELECTED FOR EXAMINATION.							

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					-	-	-
							REMARKS
							**CALIBRATION BLOCK**
<u>6-SI-2118-UB2 (FIG NO B-SI-1)</u>							
737040	24LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
737060	24 PIPE TO ELBOW (FW0024)	C-F C5.11	PT	200-1/69	X	-	
737160	25 ELBOW TO PIPE (FW2011)	C-F C5.11	PT	200-1/69	X	-	
737180	25LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
737190	26LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
737191	26 PIPE TO PIPE (FW1724)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
737230	27 PIPE TO ELBOW (FW2012)	C-F C5.11	PT	200-1/69	X	-	

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			REMARKS
		ITEM NO	METHOD	PROCEDURE	C	M	R
-----							
<u>6-SI-2118-UB2 (FIG NO B-S'-1)</u>							
737320	28 ELBOW TO PIPE (FW2013)	C-F C5.11	PT	200-1/69	X	-	-
737340	28LD LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
737360	29LU LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
737380	29 PIPE TO PIPE (FW0025)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
737400	29LD LONGITUDINAL WELD	C-F C5.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
737420	30LU LONGITUDINAL WELD	C-F C5.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
737440	30 PIPE TO ELBOW (FW0026)	C-F C5.11	PT	200-1/69	X	-	-

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		SEC. XI				C	W	
<u>6-SI-2118-UB2 (FIG NO B-SI-1)</u>								
737540	31 ELBOW TO PIPE (J-SW0002)	C-F C5.11	PT		200-1/69	X	-	
737560	31LD LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
737580	32LU LONGITUDINAL WELD	C-F C5.12	PT		200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.
737600	32 PIPE TO ELBOW (FW0012)	C-F C5.11	PT		200-1/69	X	-	
737700	33 ELBOW TO PIPE (K-SW0002)	C-F C5.11	PT		200-1/69	X	-	
737760	34 PIPE TO ELBOW (K-SW0003)	C-F C5.11	PT		200-1/69	X	-	
737860	35 ELBOW TO PIPE (K-SW0004)	C-F C5.11	PT		200-1/69	X	-	

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM		O	G T
		ITEM NO	METHOD	PROCEDURE		R	E H
						E	O E
						M	R
							REMARKS
							**CALIBRATION BLOCK**
<u>6-SI-2118-UB2 (FIG NO B-SI-1)</u>							
737905	36 PIPE TO PIPE (K-SW0007)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
737920	37 PIPE TO PIPE (PW0013)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
737980	38 PIPE TO ELBOW (L-SW0002)	C-F CS.11	PT	200-1/69	X	-	
738040	39 ELBOW TO PIPE (L-SW0003)	C-F CS.11	PT	200-1/69	X	-	
738140	40 PIPE TO ELBOW (L-SW0004)	C-F CS.11	PT	200-1/69	X	-	
738200	41 ELBOW TO PIPE (L-SW0005)	C-F CS.11	PT	200-1/69	X	-	
738300	42 PIPE TO VALVE (PW0014)	C-F CS.11	PT	200-1/69	X	-	



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G
		ITEM NO	METHOD	PROCEDURE	R	E
					H	
					E	O
					E	R
					C	M
					R	
						REMARKS
						**CALIBRATION BLOCK**
<u>6-SI-2206-DB2 (FIG NO B-SI-17)</u>						
738980	7 PIPE TO PIPE (FW0001)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
739000	8 PIPE TO FLANGE	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
739020	9 FLANGE TO PIPE (FW0002)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
739060	10 PIPE TO FLANGE (FW0003)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
739080	11 FLANGE TO PIPE (D-SW0003)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
739100	12 PIPE TO ELBOW (D-SW0002)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
739120	13 ELBOW TO PIPE (FW0004)	C-F C5.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>6-SI-2206-DB2 (FIG NO B-SI-17)</u>							
739140	14 PIPE TO VALVE (FW0005)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739160	15 VALVE TO PIPE (FW0006)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739180	16 PIPE TO ELBOW (F-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739200	17 ELBOW TO PIPE (F-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739220	18 PIPE TO ELBOW (FW0007)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739240	19 ELBOW TO PIPE (G-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739250	20 PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
-----								

6-SI-2206-DB2 (FIG NO B-SI-17)

739260	21 PIPE TO ELBOW (FW0008)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
739280	22 ELBOW TO PIPE (H-SW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
739300	23 PIPE TO PIPE (FW0009)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

6-SI-2206-DB2 (FIG NO B-SI-18)

739320	24 PENETRATION TO PIPE (FW0096)	C-F CS.11	PT UTOL UTOW UT45 UT45T	200-1/69 600-31/19	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
739340	25 PIPE TO ELBOW (J-SW0002)	C-F CS.11	PT UTOL UT45 UT45T	200-1/69 600-31/10	-	-	X	AUGMENTED PSI - VOLUMETRIC SAMPLE. ONE LINEAR PT INDICATION. SEE CNF 037. REEXAMINATION REVEALED NO RECORDABLE INDICATIONS.
739360	26 ELBOW TO PIPE (J-SW0003)	C-F CS.11	PT UTOL UT45 UT45T	200-1/69 600-31/19	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
**SS-23**								

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		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	N	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>6-SI-2206-DB2 (FIG NO B-SI-18)</u>							
739380	27	C-F	PT	200-1/69	X	-	-
	PIPE TO VALVE	C5.11	UT0L	600-31/19	X	-	-
	(FW0035)		UTOW		X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**SS-23**
739400	28	C-F	PT	200-1/69	X	-	-
	VALVE TO PIPE	C5.11	UT0L	600-31/19	X	-	-
	(FW0097)		UTOW		X	-	-
			UT45		X	-	-
			UT45T		X	-	-
							**SS-23**
739420	29	C-F	P	200-1/69	X	-	-
	PIPE TO ELBOW	C5.11					
739440	30	C-F	PT	200-1/69	X	-	-
	ELBOW TO PIPE	C5.11					
739460	31	C-F	PT	200-1/69	X	-	-
	PIPE TO ELBOW	C5.11					
739480	32	C-F	PT	200-1/69	X	-	-
	ELBOW TO PIPE	C5.11					
739520	33	C-F	PT	200-1/69	X	-	-
	PIPE TO VALVE	C5.11					
	(FW0096)						

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
			ITEM NO	METHOD	R	E	H
				PROCEDURE	E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**
-----							
<u>6-SI-2206-DB2 (FIG NO B-SI-18)</u>							
739540	34 VALVE TO PIPE (FW0089)	C-F	PT	200-1/69	X	-	-
		C5.11					
739580	35 PIPE TO ELBOW	C-F	PT	200-1/69	X	-	-
		C5.11					
739600	36 ELBOW TO PIPE (FW0099)	C-F	PT	200-1/69	X	-	-
		C5.11					
739620	37 PIPE TO ELBOW (FW0039)	C-F	PT	200-1/69	X	-	-
		C5.11					
739640	38 ELBOW TO PIPE (N-SW0004)	C-F	PT	200-1/69	X	-	-
		C5.11					
739660	39 PIPE TO ELBOW (N-SW0003)	C-F	PT	200-1/69	X	-	-
		C5.11					
739680	40 ELBOW TO PIPE (N-SW0002)	C-F	PT	200-1/69	X	-	-
		C5.11					

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			-	-	-	
<u>6-SI-2206-DB2 (FIG NO B-SI-18)</u>						
739700 41 PIPE TO PIPE (FW0040)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739720 42 PIPE TO ELBOW (FW0041)	C-F CS.11	PT	200-1/69	X	-	
739740 43 ELBOW TO PIPE (Q-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739750 44 PIPE TO PIPE (Q-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739755 45 PIPE TO PIPE (Q-SW0006)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739760 46 PIPE TO ELBOW (FW0042)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739780 47 ELBOW TO PIPE (R-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM			REMARKS
		ITEM NO	METHOD	PROCEDURE	C	M	R
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<u>6-SI-2206-DB2 (FIG NO B-SI-18)</u>							
739790	48 PIPE TO PIPE (R-SW0003)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739800	49 PIPE TO ELBOW (R-SW0004)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739820	50 ELBOW TO PIPE (FW0043)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739880	51 PIPE TO TEE	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739900	52 TEE TO PIPE (FW0044)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739920	53 PIPE TO ELBOW (T-SW0002)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739940	54 ELBOW TO PIPE (FW0045)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>6-SI-2206-DB2 (FIG NO B-SI-19)</u>							
739960	55 PIPE TO ELBOW (U-SW000 )	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
739980	56 ELBOW TO PIPE (FW0046)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
740000	57 PIPE TO FLANGE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
740020	58 FLANGE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
740040	59 PIPE TO ELBOW (W-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
740060	60 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
740080	61 PIPE TO VALVE (FW0047)	C-F CS.21	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM		O	G
			ITEM NO	METHOD	PROCEDURE	R	E
						H	
						E	O
						E	R
						C	M
						R	
						**CALIBRATION BLOCK**	

6-SI-2207-BB2 (FIG NO B-SI-18)

740580 1 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 VALVE TO PIPE  
 (FW0001) C5.21

740600 2 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO ELBOW  
 (A-SW0005) C5.21

740620 3 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 ELBOW TO PIPE  
 (A-SW0004) C5.21

740640 4 C-F PT 200-1/69 X - -  
 PIPE TO ELBOW UTOL 80J-114/2 X - -  
 (A-SW0007) UT45 - X -  
 UT45T X - -  
 \*\*\*SS-9\*\*

740660 5 C-F PT 200-1/69 X - -  
 ELBOW TO PIPE UTOL 80J-114/2 X - -  
 (A-SW0002) UT45 - X -  
 UT45T X - -  
 \*\*\*SS-9\*\*

740680 6 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO VALVE  
 (FW0002) C5.21

6-SI-2209-DB2 (FIG NO B-SI-19)

741180 1 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 TEE TO PIPE  
 (FW0001) C5.11

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		SEC. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		
-----		-----		-----	-	-	-	-----		
<u>6-SI-2209-DB2 (FIG NO B-SI-19)</u>										
741200	2 PIPE TO FLANGE (A-SW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
741220	3 FLANGE TO PIPE (B-SW0007)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.		
741260	4 PIPE TO ELBOW (B-SW0006)	C-F CS.11	PT	200-1/69	X	-	-			
741280	5 ELBOW TO PIPE (B-SW0005)	C-F CS.11	PT	200-1/69	X	-	-			
741300	6 PIPE TO ELBOW (FW7388)	C-F CS.11	PT	200-1/69	X	-	-			
741320	7 ELBOW TO PIPE (B-SW0003)	C-F CS.11	PT	200-1/69	X	-	-			
741340	8 PIPE TO PIPE (B-SW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.		



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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
			ITEM NO	METHOD	PROCEDURE	R	E	H
						E	O	E
						C	M	R
								REMARKS
								**CALIBRATION BLOCK**
<u>6-SI-2209-DB2 (FIG NO B-SI-19)</u>								
741360	9 PIPE TO ELBOW (FW0018)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
741380	10 ELBOW TO PIPE (FW0019)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.11						
741400	11 PIPE TO ELBOW (A-SW0002)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.21						
741420	12 ELBOW TO PIPE (A-SW0003)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.21						
741440	13 PIPE TO VALVE (FW0020)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.21						
<u>6-SI-2210-BB2 (FIG NO B-SI-19)</u>								
741900	1 VALVE TO PIPE (FW0012)	C-F	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
		C5.21						
741920	2 PIPE TO VALVE (FW0013)	C-F	PT	200-1/69		X	-	LIMITED UT45 ON THE VALVE SIDE DUE TO
		C5.21	UT0L	800-114/2		X	-	VALVE CONFIGURATION. SEE APPENDIX L OF
			UT45			-	X	THIS REPORT.
			UT45T			X	-	
			UT0W	600-31/19		X	-	**SS-9**

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		ITEM NO	METHOD	PROCEDURE	R E H	REMARKS
					E O E	
					C M R	**CALIBRATION BLOCK**
					- - -	
<u>6-SI-2306-DB2 (FIG NO B-SI-20)</u>						
742420	1 FLANGE TO PIPE (A-SW0002)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
742440	2 PIPE TO FLANGE (A-SW0003)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
742460	3 FLANGE TO ELBOW	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
742480	4 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
742500	5 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
742520	6 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
742540	7 PIPE TO PIPE (FW0039)	C-F CS.11	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
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<u>6-SI-2306-082 (FIG NO B-SI-20)</u>							
742560	8 PIPE TO FLANGE (BA-SW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742580	9 FLANGE TO PIPE (FW0001)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742600	10 PIPE TO FLANGE (FW0002)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742620	11 FLANGE TO PIPE (D-SW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742640	12 PIPE TO ELBOW (D-SW0002)	C-F CS.11	Ft	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742660	13 ELBOW TO PIPE (FW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742670	13A PIPE TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>6-SI-2306-DB2 (FIG NO B-SI-20)</u>							
742680	14 PIPE TO VALVE (FW0004)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742700	15 VALVE TO PIPE (FW0005)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742720	16 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742740	17 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742760	18 PIPE TO ELBOW (FW0006)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742780	19 ELBOW TO PIPE (FW0007)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742800	20 PIPE TO ELBOW (FW7389)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	REMARKS
		ITEM NO	METHOD	PROCEDURE	E	O	E	**CALIBRATION BLOCK**
.....		.....	.....	.....	x	x	x	.....

6-SI-2306-082 (FIG NO B-SI-20)

742820 21 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 ELBOW TO PIPE  
 (FW0100) CS.11

742830 21A C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO PIPE  
 (FW9005) CS.11

742840 22 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO ELBOW  
 (FW0080) CS.11

742860 23 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 ELBOW TO PIPE  
 (FW0081) CS.11

6-SI-2306-082 (FIG NO B-SI-21)

742900 24 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PENETRATION TO PIPE  
 (FW0041) CS.11

742920 25 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 PIPE TO VALVE  
 (FW0042) CS.11

742940 26 C-F PT SEE REMARKS NOT SELECTED FOR EXAMINATION.  
 VALVE TO PIPE  
 (FW0043) CS.11

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NUMBER IDENTIFICATION		SEC. XI	CATGY EXAM	PROCEDURE	O	Q	T
		ITEM NO	METHOD		R	E	M
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					X	-	-
<u>6-SI-2306-082 (FIG NO 8-SI-21)</u>							
742960	27 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
742980	28 ELBOW TO PIPE (FS10186)	C-F CS.11	PT	200-1/69	X	-	-
742990	29 PIPE TO PIPE (FW5659)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
743000	30 PIPE TO VALVE (FW0077)	C-F CS.11	PT	200-1/69	X	-	-
743020	31 VALVE TO PIPE (FW0078)	C-F CS.11	PT	200-1/69	X	-	-
743040	32 PIPE TO TEE	C-F CS.11	PT UTOL UTOW UT4S UT4ST	200-1/69 600-31/19	X X X - X	- - - X -	AUGMENTED PSI - VOLUMETRIC SAMPLE.    **SS-23**
743060	33 TEE TO PIPE	C-F CS.11	PT UTOL UTOW UT4S UT4ST	200-1/69 600-31/19	X X X - X	- - - X -	AUGMENTED PSI - VOLUMETRIC SAMPLE.    **SS-23**

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		SEC. XI	EXAM		O	G	T
		CATGY			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

6-SI-2306-DB2 (FIG NO B-SI-21)

743080	34 PIPE TO ELBOW	C-F CS.11	PT UTOL UT45 UT45T	200-1/69 600-31/19	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
					X	-	-	
					-	X	-	
					X	-	-	**SS-23**

743100	35 ELBOW TO PIPE (F10045)	C-F CS.11	PT UTOL UT45 UT45T	200-1/69 600-31/19	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
					X	-	-	
					X	-	-	
					X	-	-	**SS-23**

743120	36 PIPE TO FLANGE (L-9W0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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743140	37 FLANGE TO PIPE (F58334)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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743160	38 PIPE TO PIPE (F48335)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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743180	39 PIPE TO VALVE (F40046)	C-F CS.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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6-SI-2307-BB2 (FIG NO B-SI-21)

743680	1 VALVE TO PIPE (F40001)	C-F CS.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O G T		R E H	
		ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>6-SI-2307-882 (FIG NO B-SI-21)</u>								
743700	2 PIPE TO VALVE (FW0002)	C-F CS.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
<u>6-SI-2325-882 (FIG NO B-SI-21)</u>								
744200	1 TEE TO PIPE (FW0001)	C-F CS.11	PT UT0L UT45 UT45T	200-1/69 600-31/19	X	-	-	AUGMENTED PSI - VOLUMETRIC SAMPLE.
					X	-	-	
					-	X	-	
					X	-	-	**SS-23**
744220	2 PIPE TO PIPE (FW0002)	C-F CS.11	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
744240	3 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	X	-	-	
744260	4 ELBOW TO PIPE	C-F CS.11	PT	200-1/69	X	-	-	LIMITED PT ON WELD DUE TO PERMANENT T -BEAM SUPPORT. SEE APPENDIX L OF THIS REPORT.
744280	5 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	X	-	-	
744300	6 ELBOW TO PIPE (FW0003)	C-F CS.11	PT	200-1/69	X	-	-	



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		ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
REMARKS							
**CALIBRATION BLOCK**							
<u>6-SI-2325-DB2 (FIG NO B-SI-21)</u>							
744320	7 PIPE TO PIPE (C-SW0005)	C-F C5.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
744340	8 PIPE TO FLANGE (FW0004)	C-F C5.11	PT	200-1/69	X	-	-
744360	9 FLANGE TO PIPE (FW7376)	C-F C5.11	PT	200-1/69	X	-	-
744380	10 PIPE TO PIPE	C-F C5.11	PT	200-1/69	X	-	-
744400	11 PIPE TO VALVE (FW0005)	C-F C5.21	PT	200-1/69	X	-	-
			UT0L	800-114/2	X	-	-
			UT45		-	X	-
			UT45T		X	-	-
			UT0W	600-31/19	X	-	-
			UT60		X	-	-
***SS-9**							
<u>6-SI-2326-8B2 (FIG NO B-SI-21)</u>							
744900	1 VALVE TO PIPE (FW0001)	C-F C5.21	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	ITEM NO	METHOD	PROCEDURE	REMARKS
								**CALIBRATION BLOCK**
<hr/>								
<u>6-SI-2326-882 (FIG NO 8-SI-21)</u>								
744920	2 PIPE TO ELBOW (FW0002)	C-F	PT				SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		C5.21						
744940	3 ELBOW TO PIPE	C-F	PT				SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		C5.21						
744960	4 PIPE TO ELBOW	C-F	PT				SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		C5.21						
744980	5 ELBOW TO PIPE	C-F	PT				200-1/69 800-114/2	X - - X - - - X - X - -  **SS-Q**
		C5.21	UT0L UT45 UT45T					
744990	6 PIPE TO PIPE	C-F	PT				SEE REMARKS	NOT SELECTED FOR EXAMINATION.
		C5.21						
745000	7 PIPE TO VALVE (FW0008)	C-F	PT				200-1/69 800-114/2 600-31/19	X - - NO UT45T ON THE VALVE SIDE DUE TO VALVE X - - CONFIGURATION. SEE APPENDIX L OF THIS - X - REPORT. X - - X - - **SS-Q** X - -
		C5.21	UT0L UT45 UT45T UT0W UT60					

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	
					E	O	E	
					C	M	R	
							REMARKS	
							**CALIBRATION BLOCK**	
<u>2-SI-2106-DB2 (FIG NO 0-SI-22)</u>								
746000	1 BRANCH CONNECTION TO PIPE (FW0012)	C-F-1 C5.30	PT	200-1/69	X	-	-	AUGMENTED PSI - OPTIONAL WB3 BASELINE.
746010	2 PIPE TO ELBOW (FW0013)	C-F-1 C5.30	PT	200-1/69	X	-	-	AUGMENTED PSI - OPTIONAL WB3 BASELINE.
746020	3 ELBOW TO PIPE (FW0014)	C-F-1 C5.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746030	4 PIPE TO FLANGE (FW0015)	C-F-1 C5.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746040	5 FLANGE TO PIPE (FW0016)	C-F-1 C5.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746050	6 PIPE TO REDUCER (FW0017)	C-F-1 C5.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746060	7 REDUCER TO PIPE	C-F-1 C5.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
<u>2-SI-2106-DB2 (FIG NO B-SI-22)</u>							
746065	8 PIPE TO FLANGE	C-F-1 CS.21	PT	SEE REMARKS			REMARKS **CALIBRATION BLOCK**
746070	9 FLANGE TO PIPE	C-F-1 CS.21	PT	SEE REMARKS			
746080	10 PIPE TO FLOW ORIFICE (FW0101)	C-F-1 CS.21	PT	SEE REMARKS			
746085	11 FLOW ORIFICE TO PIPE (FW0102)	C-F-1 CS.21	PT	SEE REMARKS			
746090	12 PIPE TO FLANGE	C-F-1 CS.21	PT	SEE REMARKS			
746100	13 FLANGE TO PIPE	C-F-1 CS.21	PT	SEE REMARKS			
746110	14 PIPE TO REDUCER	C-F-1 CS.21	PT	SEE REMARKS			

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SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	**CALIBRATION BLOCK**
					C	M	R	

2-SI-2106-DB2 (FIG NO B-SI-22)

746120	15 REDUCER TO PIPE (FW0020)	C-F-1 CS.21	PT UTOL UT45 UT45T	200-1/69 600-39/7	X	-	-	AUGMENTED PSI - OPTIONAL W83 BASELINE. LIMITED UT45 ON BOTH SIDES DUE TO WELD AND REDUCER CONFIGURATION. NO UT45T ON THE REDUCER SIDE DUE TO REDUCER CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-22**
746130	16 PIPE TO ELBOW (FW0021)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746140	17 ELBOW TO PIPE (FW0022)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746143	18 PIPE TO VALVE (FW0023)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746147	19 VALVE TO PIPE (FW0024)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746150	20 PIPE TO VALVE (FW0025)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

2-SI-2139-DB2 (FIG NO B-SI-23)

746200	1 BRANCH CONNECTION TO PIPE (FW0022)	C-F-1 CS.30	PT	200-1/69	X	-	-	AUGMENTED PSI - OPTIONAL W83 BASELINE.
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SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
					X	X	X
<u>2-SI-2139-092 (FIG NO 8-SI-23)</u>							
746210	2 PIPE TO TEE (FW0023)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746220	3 TEE TO REDUCER (FW0040)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746230	4 REDUCER TO VALVE (FW0041)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746240	5 TEE TO PIPE (FW0024)	C-F-1 CS.30	PT	200-1/69	X	X	AUGMENTED PSI - OPTIONAL WBS BASELINE.
746250	6 PIPE TO ELBOW (FW0025)	C-F-1 CS.30		SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746260	7 ELBOW TO PIPE (FW0026)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746270	8 PIPE TO ELBOW (FW0027)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
			ITEM NO	METHOD	PROCEDURE	R	E	H
						E	O	E
						C	M	R
								REMARKS
								**CALIBRATION BLOCK**
.....								
<u>2-SI-2139-082 (FIG NO 8-SI-23)</u>								
746274	8A ELBOW TO PIPE (FW8096)		C-F-1 C5.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746276	8B PIPE TO ELBOW (FW8097)		C-F-1 C5.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746280	9 ELBOW TO PIPE (FW8098)		C-F-1 C5.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746290	10 PIPE TO COUPLING (FW0029)		C-F-1 C5.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746300	11 COUPLING TO PIPE (FW0030)		C-F-1 C5.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746310	12 PIPE TO COUPLING (FW0031)		C-F-1 C5.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746320	13 COUPLING TO PIPE (FW0032)		C-F-1 C5.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	Q	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	**CALIBRATION LOCK**
					C	M	R	
					X	X	X	
<u>6-SI-2129-082 (FIG NO R-SI-23)</u>								
746330	14 PIPE TO ELBOW (FW0032)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746340	15 ELBOW TO PIPE (FW0034)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746350	16 PIPE TO ELBOW (FW0035)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746360	17 ELBOW TO PIPE (FW0036)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746370	18 PIPE TO ELBOW (FW0037)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746380	19 ELBOW TO PIPE (FW0038)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746390	20 PIPE TO VALVE (FW0024)	C-F-1 CS.30	PT	200-1/69	X	X	X	AUGMENTED PSI - OPTIONAL W83 BASELINE.



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					O G T	R E H	E O E	
					C	M	R	**CALIBRATION BLOCK**
.....								
<u>2-SI-2206-DB2 (FIG NO B-SI-22)</u>								
746400 1 BRANCH CONNECTION TO PIPE (FW0011)	C-F-1 CS.30	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746410 2 PIPE TO ELBOW (FW0012)	C-F-1 CS.30	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746420 3 ELBOW TO PIPE (FW0013)	C-F-1 CS.30	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746430 4 PIPE TO FLANGE (FW0014)	C-F-1 CS.21	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746440 5 FLANGE TO PIPE (FW0015)	C-F-1 CS.21	PT UTOL UT45 UT45T		200-1/69 600-39/7	X - - X - - X - - X - -			AUGMENTED PSI - OPTIONAL W83 BASELINE. NO UT45T ON THE FLANGE SIDE DUE TO FLANGE CONFIGURATION. SEE APPENDIX L OF THIS REPORT. **SS-22**
746450 6 PIPE TO REDUCER (FW0016)	C-F-1 CS.21	PT UTOL UT45 UT45T		200-1/69 600-39/7	X - - X - - - X - X - -			AUGMENTED PSI - OPTIONAL W83 BASELINE. **SS-22**
746460 7 REDUCER TO PIPE	C-F-1 CS.21	PT		SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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SUMMARY EXAMINATION NUMBER IDENTIFICATION	ASME SEC. XI CATGY EXAM ITEM NO METHOD	PROCEDURE	N O O G T R E H E O E C M R	REMARKS
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2-SI-2306-DB2 (FIG NO B-SI-22)

746465 8 PIPE TO FLANGE	C-F-1 CS.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
746467 9 FLANGE TO PIPE	C-F-1 CS.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
746470 10 PIPE TO FLOW ORIFICE (FW0110)	C-F-1 CS.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
746480 11 FLOW ORIFICE TO PIPE (FW0111)	C-F-1 CS.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
746485 12 PIPE TO FLANGE	C-F-1 CS.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
746487 13 FLANGE TO PIPE	C-F-1 CS.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.
746490 14 PIPE TO REDUCER	C-F-1 CS.21	PT	SEE REMARKS	NOT SELECTED FOR EXAMINATION.

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2-SI-2206-DB2 (FIG NO B-SI-22)

746500 15 REDUCER TO PIPE (FW0019)	C-F-1 CS.21	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746510 16 PIPE TO ELBOW (FW0020)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746520 17 ELBOW TO PIPE (FW0021)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746530 18 PIPE TO VALVE (FW0022)	C-F-1 CS.30	PT	SEE REMARKS				NOT .LECTED FOR EXAMINATION.
746540 19 VALVE TO PIPE (FW0023)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746550 20 PIPE TO VALVE (FW0024)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

2-SI-2232-DB2 (FIG NO B-SI-24)

746600 1 BRANCH CONNECTION TO PIPE (FW0022)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
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-----							
<u>2-LI-2232-DB2 (FIG NO B-SI-24)</u>							
746610 2 PIPE TO TEE (FW0023)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746620 3 TEE TO REDUCER (FW0040)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746630 4 REDUCER TO VALVE (FW0041)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746640 5 TEE TO PIPE (FW0024)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746650 6 PIPE TO ELBOW (FW0025)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746660 7 ELBOW TO PIPE (FW0026)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746670 8 PIPE TO ELBOW (FW0027)	C-F-1 CS.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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<u>2-SI-2232-DB2 (FIG NO B-SI-24)</u>				
746680 9 ELBOW TO PIPE (FW0028)	C-F-1 PT C5.30	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
746730 10 PIPE TO COUPLING (FW8224)	C-F-1 PT C5.30	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
746740 11 COUPLING TO PIPE (FW8225)	C-F-1 PT C5.30	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
746750 12 PIPE TO COUPLING (FW0031)	C-F-1 PT C5.30	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
746760 13 COUPLING TO PIPE (FW0032)	C-F-1 PT C5.30	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
746765 14 PIPE TO ELBOW (FW0033)	C-F-1 PT C5.30	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
746770 15 ELBOW TO PIPE (FW3072)	C-F-1 PT C5.30	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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				-	-	-	
<u>2-SI-2232-DB2 (FIG NO B-SI-24)</u>							
746775 16 PIPE TO ELBOW (FW0035)	C-F-1 C5.30	PT	200-1/69	X	-	-	AUGMENTED PSI - OPTIONAL W83 BASELINE.
746780 17 ELBOW TO PIPE (FW0036)	C-F-1 C5.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746785 18 PIPE TO ELBOW (FW0037)	C-F-1 C5.30	PT	200-1/69	X	-	-	AUGMENTED PSI - OPTIONAL W83 BASELINE.
746790 19 ELBOW TO PIPE (FW0038)	C-F-1 C5.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746795 20 PIPE TO VALVE (FW0039)	C-F-1 C5.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
<u>2-SI-2306-DB2 (FIG NO B-SI-22)</u>							
746800 1 BRANCH CONNECTION TO PIPE (FW0008)	C-F-1 C5.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.
746810 2 PIPE TO ELBOW (FW0009)	C-F-1 C5.30	PT	SEE REMARKS				NOT SELECTED FOR EXAMINATION.

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		SEC. XI	ITE. NO			**CALIBRATION BLOCK**				
<u>2-SI-2306-DB2 (FIG NO B-SI-22)</u>										
746820	3 ELBOW TO PIPE (FW0010)	C-F-1	PT	C5.30	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
746830	4 PIPE TO FLANGE (FW0011)	C-F-1	PT	C5.21	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
746840	5 FLANGE TO PIPE (FW0012)	C-F-1	PT	C5.21	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
746850	6 PIPE TO REDUCER (FW0013)	C-F-1	PT	C5.21	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
746860	7 REDUCER TO PIPE	C-F-1	PT	C5.21	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
746865	8 PIPE TO FLANGE	C-F-1	PT	C5.21	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
746870	9 FLANGE TO PIPE	C-F-1	PT	C5.21	SEE REMARKS					NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	PROCEDURE	M	O
		ITEM NO	METHOD			C	R
						E	O
						R	E
						H	
						E	
						O	
						E	
						R	
						**CALIBRATION BLOCK**	
-----							
<u>2-SI-2306-DB (FIG NO B-SI-22)</u>							
746880	10 PIPE TO FLOW ORIFICE	C-F-1 C5.21	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746885	11 FLOW ORIFICE TO PIPE	C-F-1 C5.21	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746890	12 PIPE TO FLANGE	C-F-1 C5.21	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746900	13 FLANGE TO PIPE	C-F-1 C5.21	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746910	14 PIPE TO REDUCER	C-F-1 C5.21	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746920	15 REDUCER TO PIPE (FW0016)	C-F-1 C5.21	PT	200-1/69 600-39/7 UT45 UT45T	X - - X - - X - - X - -		AUGMENTED PSI - OPTIONAL W83 BASELINE. LIMITED UT45 AND UT45T ON THE PIPE SIDE DUE TO PERMANENT PIPE SUPPORT. SEE APPENDIX L OF THIS REPORT. ** r2**
746923	16 PIPE TO ELBOW (FW0017)	C-F-1 C5.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.



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NUMBER	IDENTIFICATION	SEC. XI	EXAM	PROCEDURE	D	G	T
		CATGY	ITEM NO		F	L	H
			METHOD		%	O	E
					C	H	R
					-	-	-
<u>2-SI-2306-DB2 (FIG NO B-SI-22)</u>							
746927	17 ELBOW TO PIPE (FW0018)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746930	18 PIPE TO VALVE (FW0019)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746940	19 VALVE TO PIPE (FW0020)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
746950	20 PIPE TO VALVE (FW0021)	C-F-1 CS.30	PT	200-1/69	X	-	AUGMENTED PSI - OPTIONAL W83 BASELINE.
<u>2-SI-2335-DB2 (FIG NO B-SI-25)</u>							
747000	1 BRANCH CONNECTION TO PIPE (FW0022)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
747010	2 PIPE TO TEE (FW0023)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
747020	3 TEE TO REDUCER (FW0040)	C-F-1 CS.30	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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<u>2-SI-2335-DB2 (FIG NO B-SI-25)</u>						
747030	4 REDUCER TO VALVE (FW0041)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747040	5 TEE TO PIPE (FW0024)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747050	6 PIPE TO ELBOW (FW0025)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747060	7 ELBOW TO PIPE (FW0026)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747070	8 PIPE TO ELBOW (FW0027)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747080	9 ELBOW TO PIPE (FW0028)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747090	10 PIPE TO COUPLING (FW0029)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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<u>2-SI-2335-DB2 (FIG NO B-SI-25)</u>						
747100	11 COUPLING TO PIPE (FW0030)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747110	12 PIPE TO COUPLING (FW0031)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747120	13 COUPLING TO PIPE (FW0032)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747130	14 PIPE TO ELBOW (FW0033)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747140	15 ELBOW TO PIPE (FW0034)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747150	16 PIPE TO ELBOW (FW0035)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.
747160	17 ELBOW TO PIPE (FW0036)	C-F-1 C5.30	PT	SEE REMARKS		NOT SELECTED FOR EXAMINATION.

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NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	PROCEDURE	E	O	E	REMARKS
		ITEM NO	METHOD			C	M	R	**CALIBRATION BLOCK**
<u>2-SI-2355-DB2 (FIG NO B-SI-25)</u>									
747170	18 PIPE TO ELBOW (FW0037)	C-F-1 C5.30	PT	SEE REMARKS					NOT SELECTED FOR EXAMINATION.
747180	19 ELBOW TO PIPE (FW0038)	C-F-1 C5.30	PT	200-1/69	X	-	-		AUGMENTED PSI - OPTIONAL W83 BASELINE.
747190	20 PIPE TO VALVE (FW0039)	C-F-1 C5.30	PT	200-1/69	X	-	-		AUGMENTED PSI - OPTIONAL W83 BASELINE.

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SLUDGE LANCING SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
-----		-----		-----	-	-	-----
<u>6-SL-2010-UB2 (FIG NO B-SL-1)</u>							
748100	1 VALVE TO PIPE (FW0003)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
748110	2 PIPE TO ELBOW	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
748115	2LD LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
748120	3LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
748130	3 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
748140	4 PIPE TO ELBOW	C-F CS.11	PT	200-1/69	X	-	
748150	4LD LONGITUDINAL WELD	C-F CS.12	PT	200-1/69	X	-	EXAMINED 2.5T OF WELD LENGTH.

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SLUDGE LANCING SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>6-SL-2010-UB2 (FIG NO 3-SL-1)</u>							
748160	5LU LONGITUDINAL WELD	C-F CS.12	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
748170	5 ELBOW TO PIPE	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
748190	6 PIPE TO PENETRATION (A-FW0002)	C-F CS.11	PT	200-1/69	X	-	-
<u>6-SL-2010-UB2 (FIG NO 8-SL-2)</u>							
748200	7 PIPE TO PIPE (FW7498)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.
748210	8 PIPE TO VALVE (FW7497)	C-F CS.11	PT	SEE REMARKS			NOT SELECTED FOR EXAMINATION.

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CONTAINMENT SPRAY PUMPS (FIGURE B-CSP-1)

SUMMARY NUMBER	EXAMINATION IDENTIFICATION AREA	ASME SEC. XI CATGY	EXAM ITEM NO METHOD	PROCEDURE	N O O G T R E H E O E C M R			REMARKS
					*	*	*	
<u>PUMP 2A</u>								
750120	CIAPCS-2A-PCW1 FLANGE TO UPPER CASE	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
750125	CIAPCS-2A-PCW2 UPPER CASE TO LOWER CASE	C-G C6.10	PT	200-3/6	X	-	-	
750130	CIAPCS-2A-PCW3 LOWER CASE TO BOTTOM HEAD	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
750135	CIAPCS-2A-PCW4 NOZZLE TO UPPER CASE	C-G C6.10	PT	200-3/6	X	-	-	
750140	CIAPCS-2A-PCW5 LOWER CASE SEAM WELD	C-G C6.10	PT	200-3/6	X	-	-	LIMITED PT DUE TO PUMP PIT INACCESSIBILITY. SHOP EXAMINATION RECORDS USED FOR BASELINE ON INACCESSIBLE PORTION OF WELD. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
<u>PUMP 2B</u>								
750220	CIAPCS-2B-PCW1 FLANGE TO UPPER CASE	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.

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CONTAINMENT SPRAY PUMPS (FIGURE B-CSP-1)

SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----					-	-	-	-----
<u>PUMP 2B</u>								
75/225	CIAPCS-2B-PCW2 UPPER CASE TO LOWER CASE	C-G C6.10	PT	200-3/6	X	-	-	
750230	CIAPCS-2B-PCW3 LOWER CASE TO BOTTOM HEAD	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
750235	CIAPCS-2B-PCW4 NOZZLE TO UPPER CASE	C-G C6.10	PT	200-3/6	X	-	-	
750240	CIAPCS-2B-PCW5 LOWER CASE SEAM WELD	C-G C6.10	PT	200-3/6	X	-		LIMITED PT DUE TO PUMP PIT INACCESSIBILITY. SHOP EXAMINATION RECORDS USED FOR BASELINE ON INACCESSIBLE PORTION OF WELD. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
<u>PUMP 2C</u>								
750320	CIAPCS-2C-PCW1 FLANGE TO UPPER CASE	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASLINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
750325	CIAPCS-2C-PCW2 UPPER CASE TO LOWER CASE	C-G C6.10	PT	200-3/6	X	-	-	



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CONTAINMENT SPRAY PUMPS (FIGURE B-CSP-1)

SUMMARY NUMBER	EXAMINATION IDENTIFICATION AREA	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O G T R E H E O E C M R - - -	REMARKS
<u>PUMP 2C</u>						
750330	CIAPCS-2C-PCW3 LOWER CASE TO BOTTOM HEAD	C-G C6.10	PT	SEE REMARKS		SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
750335	CIAPCS-2C-PCW4 NOZZLE TO UPPER CASE	C-G C6.10	PT	200-3/6	X - -	
750340	CIAPCS-2C-PCW5 LOWER CASE SEAM WELD	C-G C6.10	PT	200-3/6		LIMITED PT DUE TO PUMP PIT INACCESSIBILITY. SHOP EXAMINATION RECORDS USED FOR BASELINE ON INACCESSIBLE PORTION OF WELD. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.

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CENTRIFUGAL CHARGING PUMPS (CV) (NO FIGURE)

SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION LOCK**		

PUMP 2A

750400	CSAPCH-2A-IWA INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	SEE REMARKS	NO EXAMINATION REQUIRED SINCE PUMP CASING WELD DOES NOT REQUIRE EXAMINATION.		
750410	CSAPCH-2A-PB PUMP BOLTS	C-D C4.30	PT	SEE REMARKS	NO EXAMINATION REQUIRED. BOLT SIZE IS 2 INCHES IN DIAMETER.		
750420	CSAPCH-2A-PCW PUMP CASING WELD	C-G C6.10	PT	SEE REMARKS	NO EXAMINATION REQUIRED SINCE CONNECTED PIPING DOES NOT REQUIRE EXAMINATION UNDER CATEGORY C-F.		

PUMP 2B

750430	CSAPCH-2B-IWA INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	SEE REMARKS	NO EXAMINATION REQUIRED SINCE PUMP CASING WELD DOES NOT REQUIRE EXAMINATION.		
750440	CSAPCH-2B-PB PUMP BOLTS	C-D C4.30	PT	SEE REMARKS	NO EXAMINATION REQUIRED. BOLT SIZE IS 2 INCHES IN DIAMETER.		
750450	CSAPCH-2B-PCW PUMP CASING WELD	C-G C6.10	PT	SEE REMARKS	NO EXAMINATION REQUIRED SINCE CONNECTED PIPING DOES NOT REQUIRE EXAMINATION UNDER CATEGORY C-F.		

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POSITIVE DISPLACEMENT PUMP (CV) (NO FIGURE)

SUMMARY EXAMINATION AREA	ASME SEC. XI	CATGY	EXAM	PROCEDURE	N O G T R E H E O E C M R	REMARKS
NUMBER IDENTIFICATION	ITEM NO	METHOD				**CALIBRATION BLOCK**
<u>PUMP 2A</u>						
750500 PDP-2A-IWA INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT		SEE REMARKS		NO EXAMINATION REQUIRED SINCE PUMP CASING WELD DOES NOT REQUIRE EXAMINATION.
750510 PDP-2A-PB PUMP BOLTS	C-D C4.30	PT		SEE REMARKS		NO EXAMINATION REQUIRED. BOLT SIZE IS 2 INCHES IN DIAMETER.
750520 PDP-2A-PCW PUMP CASING WELD	C-G C6.10	PT		SEE REMARKS		NO EXAMINATION REQUIRED SINCE CONNECTED PIPING DOES NOT REQUIRE EXAMINATION UNDER CATEGORY C-F.

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RESIDUAL HEAT REMOVAL PUMPS (FIGURE B-RHRP-1)

SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G		
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
-----		-----		-----	C	M	R	**CALIBRATION BLOCK**
-----		-----		-----	-	-	-	-----
<u>PUMP 2A</u>								
750600	RHARHS-2A-IWA1 INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	200-3/6	X	-	-	LIMITED EXAMINATION DUE TO PERMANENT PUMP SUPPORT. SEE APPENDIX L OF THIS REPORT.
750605	RHARHS-2A-IWA2 INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	200-3/6	X	-	-	LIMITED EXAMINATION DUE TO PERMANENT PUMP SUPPORT. SEE APPENJIX L OF THIS REPORT.
750610	RHARHS-2A-IWA3 INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	200-3/6	X	-	-	LIMITED EXAMINATION DUE TO PERMANENT PUMP SUPPORT. SEE APPENDIX L OF THIS REPORT.
750620	RHARHS-2A-PCW4 PUMP CASING TO NOZZLE	C-G C6.10	PT	200-3/6	X	-	-	
<u>PUMP 2B</u>								
750700	RHARHS-2B-IWA1 INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	200-3/6	X	-	-	LIMITED EXAMINATION DUE TO PERMANENT PUMP SUPPORT. SEE APPENDIX L OF THIS REPORT.
750705	RHARHS-2B-IWA2 INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	200-3/6	X	-	-	LIMITED EXAMINATION DUE TO PERMANENT PUMP SUPPORT. SEE APPENDIX L OF THIS REPORT.
750710	RHARHS-2B-IWA3 INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	200-3/6	X	-	-	LIMITED EXAMINATION DUE TO PERMANENT PUMP SUPPORT. SEE APPENDIX L OF THIS REPORT.

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RESIDUAL HEAT REMOVAL PUMP (FIGURE B-RHRP-1)

SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
-----		-----		-----	C	M	R	**CALIBRATION BLOCK**
-----		-----		-----	-	-	-	-----
<u>PUMP 2B</u>								
750720	RHARHS-2B-PCW4 PUMP CASING TO NOZZLE	C-G C6.10	PT	200-3/6	X	-	-	
<u>PUMP 2C</u>								
750800	RHARHS-2C-IWA1 INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	200-3/6	X	-	-	LIMITED EXAMINATION DUE TO PERMANENT PUMP SUPPORT. SEE APPENDIX L OF THIS REPORT.
750805	RHARHS-2C-IWA2 INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	200-3/6	X	-	-	LIMITED EXAMINATION DUE TO PERMANENT PUMP SUPPORT. SEE APPENDIX L OF THIS REPORT.
750810	RHARHS-2C-IWA3 INTEGRALLY WELDED ATTACHMENT	C-C C3.30	PT	200-3/6	X	-	-	LIMITED EXAMINATION DUE TO PERMANENT PUMP SUPPORT. SEE APPENDIX L OF THIS REPORT.
750820	RHARHS-2C-PCW4 PUMP CASING TO NOZZLE	C-G C6.10	PT	200-3/6	X	-	-	

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HIGH HEAD SAFETY INJECTION PUMPS

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	M O G T R E H E O E C M R			REMARKS
-----							
**CALIBRATION BLOCK**							
-----							

PUMP 2A (FIG NO B-HHSIP-1)

751020	SIAPHH-2A-PCW1 FLANGE TO UPPER CASE	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
751025	SIAPHH-2A-PCW2 UPPER CASE TO LOWER CASE	C-G C6.10	PT	200-3/6	X	-	-	
751030	SIAPHH-2A-PCW3 LOWER CASE TO BOTTOM HEAD	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
751035	SIPHH-2A-PCW4 NOZZLE TO UPPER CASE	C-G C6.10	PT	200-3/6	X	-	-	
751040	SIAPHH-2A-PCW5 LOWER CASE SEAM WELD	C-G C6.10	PT	200-3/6	X	-	-	LIMITED PT DUE TO PUMP PIT INACCESSIBILITY. SHOP EXAMINATION RECORDS USED FOR BASELINE ON INACCESSIBLE PORTION OF WELD. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.

PUMP 2B (FIG NO B-HHSIP-1)

751120	SIAPHH-2B-PCW1 FLANGE TO UPPER CASE	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
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HIGH HEAD SAFETY INJECTION PUMPS

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T	
			ITEM NO	METHOD	PROCEDURE	E	O	E
						C	M	R
REMARKS								

\*\*CALIBRATION BLOCK\*\*

PUMP 2B (FIG NO B-HHSIP-1)

751125	SIAPHH-2B-PCW2 UPPER CASE TO LOWER CASE	C-G C6.10	PT	200-3/6	X - -			
751130	SIAPHH-2B-PCW3 LOWER CASE TO BOTTOM HEAD	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
751135	SIAPHH-2B-PCW4 NOZZLE TO UPPER CASE	C-G C6.10	PT	200-3/6	X - -			
751140	SIAPHH-2B-PCW5 LOWER CASE SEAM WELD	C-G C6.10	PT	200-3/6	X - -			LIMITED PT DUE TO PUMP PIT INACCESSIBILITY. SHOP EXAMINATION RECORDS USED FOR BASELINE ON INACCESSIBLE PORTION OF WELD. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.

PUMP 2C (FIG NO B-HHSIP-1)

751220	SIAPHH-2C-PCW1 FLANGE TO UPPER CASE	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
751225	SIAPHH-2C-PCW2 UPPER CASE TO LOWER CASE	C-G C6.10	PT	200-3/6	X - -			

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HIGH HEAD SAFETY INJECTION PUMPS

SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
-----		-----		-----	C	M	R	**CALIBRATION BLOCK**
-----		-----		-----	-	-	-	-----
<u>PUMP 2C (FIG NO B-HHSJP-1)</u>								
751230	SIAPHH-2C-PCW3 LOWER CASE TO BOTTOM HEAD	C-G C6.10	PT	SEE REMARKS				SHC <sup>2</sup> EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
751235	SIAPHH-2C-PCW4 NOZZLE TO UPPER CASE	C-G C6.10	PT	200-3/6	X	.	.	
751240	SIAPHH-2C-PCW5 LOWER CASE SEAM WELD	C-G C6.10	PT	200-3/6	X	.	.	LIMITED PT DUE TO PUMP PIT INACCESSIBILITY. SHOP EXAMINATION RECORDS USED FOR BASELINE ON INACCESSIBLE PORTION OF WELD. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.



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LOW HEAD SAFETY INJECTION PUMPS

SUMMARY EXAMINATION AREA		ASME			N	O			
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T		
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS	
					E	O	E	**CALIBRATION BLOCK**	
					C	M	R		
					-	-	-		
<u>PUMP 2A (FIG NO B-LHSIP-1)</u>									
751320	SIAPLH-2A-PCW1 FLANGE TO UPPER CASE	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.	
751325	SIAPLH-2A-PCW2 UPPER CASE TO LOWER CASE	C-G C6.10	PT	200-3/6	X	-	-		
751330	SIAPLH-2A-PCW3 LOWER CASE TO BOTTOM HEAD	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.	
751335	SIAPLH-2A-PCW4 NOZZLE TO UPPER CASE	C-G C6.10	PT	200-3/6	X	-	-		
751340	SIAPLH-2A-PCW5 LOWER CASE SEAM WELD	C-G C6.10	PT	200-3/6	X	-	-	LIMITED PT DUE TO PUMP PIT INACCESSIBILITY. SHOP EXAMINATION RECORDS USED FOR BASELINE ON INACCESSIBLE PORTION OF WELD. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.	
<u>PUMP 2B (FIG NO B-LHSIP-1)</u>									
751420	SIAPLH-2B-PCW1 FLANGE TO UPPER CASE	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.	

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SUMMARY EXAMINATION AREA		ACME			M	O	
NUMBER IDENTIFICATION		SEC. XI	EXAM	PROCEDURE	O	G	T
		CATGY	ITEM NO		R	E	H
		METHOD			E	O	E
					C	M	R
					-	-	-
							REMARKS
							**CALIBRATION BLOCK**
<u>PUMP 2B (FIG NO B-LHSIP-1)</u>							
751425	SIAPLH-2B-PCW2 UPPER CASE TO LOWER CASE	C-G C6.10	PT	200-3/6	X	-	-
751430	SIAPLH-2B-PCW3 LOWER CASE TO BOTTOM HEAD	C-G C6.10	PT	SEE REMARKS			SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
751435	SIAPLH-2B-PCW4 NOZZLE TO UPPER CASE	C-G C6.10	PT	200-3/6	X	-	-
751440	SIAPLH-2B-PCW5 LOWER CASE SEAM WELD	C-G C6.10	PT	200-3/6	X	-	LIMITED PT DUE TO PUMP PIT INACCESSIBILITY. SHOP EXAMINATION RECORDS USED FOR BASELINE ON INACCESSIBLE PORTION OF WELD. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
<u>PUMP 2C (FIG NO B-LHSIP-1)</u>							
751520	SIAPLH-2C-PCW1 FLANGE TO UPPER CASE	C-G C6.10	PT	SEE REMARKS			SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
751525	SIAPLH-2C-PCW2 UPPER CASE TO LOWER CASE	C-G C6.10	PT	200-3/6	X	-	-

DATE: 08/18/88  
 REVISION: 0

SOUTH TEXAS GENERATING STATION UNIT 2  
 SUMMARY OF NONDESTRUCTIVE EXAMINATIONS  
 Baseline (1987)  
 CLASS 2 COMPONENTS

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LOW HEAD SAFETY INJECTION PUMPS

SUMMARY EXAMINATION AREA				ASME	M O			
				SEC. XI	O G T			
				CATGY	EXAM	R E H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C M R	E O E		REMARKS
								**CALIBRATION BLOCK**
-----								

PUMP 2C (FIG NO B-LHSIP-1)

751530	SIAPLH-2C-PCW3 LOWER CASE TO BOTTOM HEAD	C-G C6.10	PT	SEE REMARKS				SHOP EXAMINATION RECORDS USED FOR BASELINE DUE TO INACCESSIBILITY. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.
751535	SIAPLH-2C-PCW4 NOZZLE TO UPPER CASE	C-G C6.10	PT -	200-3/6	X	-	-	
751540	SIAPLH-2C-PCW5 LOWER CASE SEAM WELD	C-G C6.10	PT	200-3/6	X	-	-	LIMITED PT DUE TO PUMP PIT INACCESSIBILITY. SHOP EXAMINATION RECORDS USED FOR BASELINE ON INACCESSIBLE PORTION OF WELD. ISI TO BE SCHEDULED IF PUMP IS REMOVED FOR MAINTENANCE.

APPENDIX J

SOUTHWEST RESEARCH INSTITUTE IMPLEMENTATION OF  
REGULATORY 1.150 REQUIREMENTS

SOUTHWEST RESEARCH INSTITUTE IMPLEMENTATION OF  
REGULATORY GUIDE 1.150 REQUIREMENTS

The following is a transcript of Appendix A to Regulatory Guide 1.150, Revision 1, annotated with SwRI comments. These comments identify SwRI's technical methods of implementing the Regulatory Guide. Comments are made relative to the Regulatory Position portion of the Regulatory Guide only, as this is the portion to which the Nuclear Regulatory Commission (NRC) will audit for compliance.

## APPENDIX A

Ultrasonic examination of reactor vessel welds should be performed according to the requirements of Section XI of the ASME B&PV Code, as referenced in the Safety Analysis Report (SAR) and its amendment, supplemented by the following:

### 1. INSPECTION SYSTEM PERFORMANCE CHECKS

The conduct of a quality examination requires that the performance characteristics of the inspection system used be well defined and documented. This is particularly true for situations which require comparisons of examination results generated during successive examinations on the same components.

A system comprises:

- a. a transducer;
- b. a single-channel instrument or each channel of a multichannel instrument; and
- c. a given cable type and length.

The checks described in paragraphs 1.1 and 1.2 should be made for any UT system used for inspection of reactor pressure vessel (RPV) welds.

The field performance checks described in 1.2 (with the possible exception of 1.2.c) should be conducted on a basic calibration block that represents the thickness range to be examined.

*SwRI agrees with the need to define and document the performance characteristics of UT systems, and we have been doing so for many years. Most of the checks identified herein have been standard operating practice for SwRI. SwRI applies these requirements to all reactor vessel weld examinations, whether the examinations are manual, automated from the inside surface, or automated from the outside surface. Since the results of the field performance checks described in 1.2 are independent of calibration block design, SwRI procedures allow the use of any calibration block that will provide the signal responses needed for the performance check.*

#### 1.1 Pre-exam Performance Checks

##### a. Frequency of Checks

These checks should be verified within 6 months before reactor pressure vessel examinations performed during one outage. Pulse shape and noise suppression controls should remain at the same settings during calibration and examination.

b. RF Waveform

A record of the RF (radiofrequency) pulse waveform from a reference reflector should be obtained for each search unit used in the examination in a manner which will provide frequency amplitude information. At the highest amplitude portion of the beam, the RF return signal should be recorded before it has been rectified or conditioned for display. The reflector used in generating the RF return signal as well as the electronic system (i.e., the basic ultrasonic instrument, gating, and form of gated signal) should be documented. These records should be used for comparison with previous and future records.

*SwRI performs a complete laboratory analysis of every search unit in inventory at least every 6 months. This analysis includes not only recording the RF pulse waveform identified above, but also determination of the frequency spectrum and distance amplitude curve for each search unit. Search units that do not meet strict performance tolerances are discarded or labeled as not acceptable for field use. Documentation of this analysis is provided to SwRI clients prior to the job and is also included in the final examination report.*

*In addition to the laboratory search unit analysis, SwRI photographs the RF waveform in the field during initial and final calibrations. This provides a record of the RF waveform obtained using the specific system components (transducer, instrument, and cable) that are used for calibration and examination.*

1.2 Field Performance Checks

a. Frequency of Checks

As a minimum, these checks should be verified on site before and after examining all the welds that need to be examined in a reactor pressure vessel during one outage. Pulse shape and noise suppression controls should remain at the same setting during examination and calibration.

b. Instrument Sensitivity During Linearity Checks

The initial instrument sensitivity during the performance of 1.2.e should be such that it falls at the calibration sensitivity or at some point between the calibration sensitivity and the scanning sensitivity.

c. RF Waveform

A record of the RF (radiofrequency) pulse waveform from a reference reflector should be obtained and recorded in a manner that will permit extraction of frequency amplitude information. At the highest amplitude portion of the beam, the RF return signal should be recorded before it has been rectified or conditioned for display. This should be determined on the same reflector as that used in 1.1.b above. This record should be retained for future reference.

d. Screen Height Linearity

Screen height linearity of the ultrasonic instrument should be determined according to the mandatory Appendix I to Article 4, Section V of the ASME Code or Appendix I to Section XI of the ASME Code.

e. Amplitude Control Linearity

Amplitude control linearity should be determined according to the mandatory Appendix II of Article 4, Section V, of the ASME Code or Appendix I of Section XI of the ASME Code.

f. Angle-Beam Profile Characterization

The vertical beam profile should be determined for each search unit used during the examination by a procedure similar to that outlined in nonmandatory Appendix B-60, Article 4, Section V, of the ASME Code or Appendix I to Section XI of the ASME Code. Beam profile curves should be determined at different depths to cover the thicknesses of materials to be examined. Interpolation may be used to obtain beam profile correction for assessing flaws at intermediate depths for which beam profile has not been determined.

Beam profile measurements should be made at the sensitivity required for sizing. For example, sizing to 20-percent DAC criteria requires beam profile determination at 20-percent DAC.

*The field performance checks described above are performed by SwRI as follows:*

- 1) *RF Waveform - SwRI photographs the RF waveform in the field during each initial and final calibration. This provides a record of the RF waveform obtained using the specific system components (transducer, instrument, and cable) that are used for calibration and examination.*
- 2) *Screen Height Linearity - Screen height linearity checks are performed for each instrument in accordance with the Reg Guide requirements. These checks are performed immediately before and after completion of the examinations.*
- 3) *Amplitude Control Linearity - Amplitude control linearity checks establish a linear relationship between an adjustment of the gain, or sensitivity, controls (knobs or switches) and the corresponding signal amplitude change observed on the CRT.*

*In the case of manual examinations, the gain controls are used to determine the amplitude as a percentage of the Distance Amplitude Correction (DAC) Curve by adjusting the controls until the signal meets the DAC curve and calculating the indication amplitude based upon the amount of gain adjustment. Since the gain controls are used to indirectly calculate indication amplitude, it is important for the relationship between control adjustments and corresponding signal changes to be linear regardless of how large or small the indication is prior to the control adjustment. In the case*



of manual examinations in accordance with RG 1.150, amplitude control linearity is determined for each instrument in accordance with the Reg Guide requirements. These checks are performed in conjunction with the screen height linearity checks immediately before and after completion of the examinations.

Paragraph 1.2.b above requires that the instrument sensitivity during the performance of amplitude control linearity checks should be at the calibration sensitivity or between the calibration sensitivity and scanning sensitivity. However, the calibration sensitivity levels (and scanning sensitivity levels) vary with the different techniques used during vessel examinations. Therefore, SwRI performs these linearity checks at the extreme upper and lower ends of the sensitivity range. This ensures that the instrument is linear across a wide range of calibration and scanning sensitivity levels.

In the case of automated examinations, SwRI's Time Control Gain (TCG) circuitry electronically compensates for the normal signal attenuation that causes a sloping DAC Curve and provides a variable gain adjustment across the CRT screen such that a constant, horizontal DAC curve is attained. Therefore, with TCG, indication amplitudes as a percentage of DAC are not determined by adjusting the gain controls, but instead, can be determined directly by monitoring the digitized signal voltage, or visually by using the horizontal screen grids. The performance of the TCG circuitry is ascertained at SwRI's calibration laboratory at least every 6 months and also onsite during examinations by periodically verifying that the TCG is, in fact, maintaining a straight horizontal DAC. In essence, whenever the amplitude controls are used for indication amplitude measurement, SwRI performs amplitude control linearity checks, however in most cases the checks are unnecessary when using the TCG system.

- 4) *Angle-Beam Profile Characterization* - A beam profile for each single element pulse-echo angle beam search unit is determined onsite in accordance with the Reg Guide requirements. These profiles are generated using the 1/4, 1/2, and 3/4T side drilled holes in a calibration block that is as thick or thicker than the component to which the search unit will be applied. Since Appendix A of the Reg Guide permits sizing at either 20% or 50% of DAC, SwRI takes both 20% and 50% beam profiles.

With the use of tandem dual refracted longitudinal wave search units for near surface examination, typical sizing methodologies are not applicable because of the unique search unit performance. Therefore, when near surface indications are observed with these techniques, special supplemental sizing techniques may be required depending upon the observed characteristics of the flaw. These special supplemental sizing techniques have been substantiated and qualified using mockups, field experience, and research project data over many years.

## 2. CALIBRATION

System calibration should be performed to establish the DAC curve and the sweep range calibration in accordance with Article 4, Section V, of the ASME Code or Appendix I to Section XI. Calibration should be confirmed before and after each RPV examination, or each week in which the system is in use, whichever is less. Where possible, the same calibration block should be used for successive inservice examinations of the RPV.

*System calibration is performed onsite by SwRI in accordance with Reg Guide requirements on the applicable basic calibration block.*

*Calibration confirmation during manual examinations is performed prior to the examination; at least every four hours during the examinations; with any substitution of search unit, cable, or power source; and upon completion of the examinations.*

*For mechanized examinations, SwRI performs calibration confirmation prior to the start of a series of examinations (a series is considered to be similar examinations performed using the same examination techniques and the same equipment configuration); with any substitution of search unit, cable, or power source; whenever the device is removed from the examination area; at least every week during the examinations; and at the completion of a series of examinations. While this calibration confirmation frequency is consistent with the Regulatory Guide, it sometimes does not comply with the 12-hour frequency requirements of Paragraph T-432.1.2 of Section V. Because of the inherent stability and reliability of the SwRI electronic equipment, however, SwRI has never experienced problems meeting calibration confirmation criteria when going beyond the 12-hour time period. The acceptability of exceeding the Section V 12-hour calibration check can be demonstrated as allowed in Paragraph IWA-2240 of Section XI.*

### 2.1 Calibration for Manual Scanning

For manual sizing of flaws, static calibration may be used if sizing is performed using a static transducer. When signals are maximized during calibration, they should also be maximized during sizing. For manual scanning for the detection of flaws, reference hole detection should be shown at scanning speed and detection level set accordingly.

*As required above, SwRI uses static calibration and static sizing techniques for manual examinations, maximizing both calibration and flaw signals. Reference hole detection is verified by scanning over the calibration block at the maximum scanning speed and verifying that the signal meets or exceeds the recording level.*

### 2.2 Calibration for Mechanized Scanning

When flaw detection is to be done by mechanized equipment, the calibration should be performed using the following guidelines:

- a. The DAC curve should be established using either a moving transducer mounted on the mechanism that will be used for examination of the component or a mechanism that duplicates the critical factors (e.g., transducer mounting, weight,

pivot points, couplant) present in the scanning mechanism.

- b. Calibration speed should be at or higher than the scanning speed, except when correction factors established in 2.2.d are used.
- c. The direction of transducer movement (forward or backward) during calibration to establish the DAC curve should be the same direction during scanning unless it can be shown that a change in scanning direction does not reduce flaw detection capability.
- d. One of the following alternative guidelines should be followed to establish correction factors if static calibration is used:
  - (1) Correction factors between dynamic and static response should be established using the basic calibration block or,
  - (2) Correction factors should be established using models and taking scaling factors into consideration (assumed scaling relationship should be verified) or,
  - (3) Correction factors should be established using full-scale mock-ups.

*SwRI complies with these requirements for calibration for mechanized scanning in accordance with 2.2.d(1) in that we have repeatedly demonstrated equivalency between scanning with the SwRI PaR devices or track mounted scanners and our static calibration techniques. SwRI routinely provides a report to its customers documenting this equivalency using the equipment pertinent to each customer's application.*

### 2.3 Calibration Confirmation

Calibration confirmation performed as midshift or interim confirmation between onsite calibrations should comply with stability requirements in T-433, Article 4, Section V, of the ASME Code.

When an electronic simulator is used for onsite calibration confirmation after a Code-required block calibration performed off site, the following should apply:

- a. Complete system performance should be maintained stable prior to offsite calibrations and onsite calibration confirmation by use of target reflectors. The target reflectors should be mounted with identical physical displacement in both the offsite calibration facilities and the onsite mechanized equipment. Each onsite periodic calibration should be preceded by complete system performance verification using a minimum of two (2) target reflectors separated by a distance representing 75 percent of maximum thickness to be examined.
- b. Written records of calibrations should be established for both target reflector responses and Code calibration block DAC curves for each transducer. These written records may be used to monitor drift since the original recorded calibration.

- c. Measures should be taken to ensure that the different variables such as temperature, vibration, and shock limits are minimized by controlling packaging, handling, and storage.

*SwRI calibration confirmations are performed at the frequency specified in paragraph 2 above and are in compliance with the stability requirements of the Reg Guide. SwRI calibration confirmations are performed onsite using the basic calibration block, not an electronic block simulator. As such, the additional requirements identified in this paragraph for the use of an electronic block simulator do not apply.*

*In addition to periodic calibration confirmations, functional checks of the UT instruments and the TCG system are typically performed at shift changeover. These checks utilize electronic signal generators to monitor for changes in sweep and amplitude displays. The stability criteria of Paragraph T-433 of Article 4 are used for acceptability of these functional checks.*

*For PWR full vessel examinations using SwRI's Fast PaR system, two Data Acquisition Systems are utilized in parallel. While one system is used for scanning and data acquisition, the other system is being calibrated for the next series of examinations. In effect, two separate cable systems are used, one for calibration and another for examination. SwRI's Remote Cable Calibrator system allows comparison of the difference in cable performance and also provides electronic signal generation for periodic verification that the performance of the two cable systems has not changed. These cable performance checks are performed at the same time, and using the same criteria, as the electronic functional checks described above.*

#### 2.4 Calibration Blocks

Calibration blocks should comply with Appendix I to Section XI or Article 4, Section V, of the ASME Code. When an alternative calibration block or a new conventional block is used, a ratio between the DAC curves obtained from the original block and from the new block should be noted (for reference) to provide for a meaningful comparison of previous and current data.

The calibration side-drilled holes in the basic calibration block and the block surface should be protected so that their characteristics do not change during storage. These side-drilled holes or the block surface should not be modified in any way (e.g., by polishing) between successive examinations. If the block surface or the calibration reflector holes have been polished by any chemical or mechanical means, this fact should be recorded.

*SwRI procedures require the use of calibration blocks that are fabricated in accordance with the Reg Guide requirements for standard Code techniques. When special techniques are utilized, such as dual tandem beam examination of the near surface volume or special nozzle inner radius examination, SwRI recommends modification of conventional blocks in order to accommodate the requirements of the special technique. Whenever possible, existing Code requirements are used as guidance for the SwRI recommendations.*

*It is SwRI's recommendation that the same calibration block be used for repetitive examinations. However, whenever calibration blocks are changed, SwRI also*

*recommends that a correlation be performed if possible to aid in comparison of indications if necessary.*

### 3. EXAMINATION

The scope and extent of the ultrasonic examinations should comply with IWA-2000, Section XI, of the ASME Code.

If electronic gating is used to define the examination volume within which indications are recorded, the start and stop control points should include the entire required thickness including the material near each surface.

If a single gate is used, it should be capable of recording multiple indications appearing in the gate. Alternative means of recording may be used providing they do not reduce flaw detection and recording capability.

Examination should be done with a minimum 25-percent scan overlap based on the transducer element size.

*The scope and extent of manual examinations are addressed in the examination plan and examination procedures in accordance with IWA-2000.*

*In order to insure that the scope and extent of automated examinations comply with IWA-2000 of Section XI, SwRI prepares a detailed Scan Plan for each automated examination activity in addition to typical examination procedures. This plan addresses device configurations, scanning parameters, calibration parameters, gate settings, and other specific information needed to perform the work. Implementation of the SwRI scan plan, as prepared for a specific application, will ensure that the full volume of the ASME examination area is examined to the extent allowed by that vessel configuration. Coverage is accomplished using a combination of several beam angles and examination techniques as specified in the scan plans.*

*The electronic gating system utilized by SwRI does not limit the examination volume within which indications are recorded. When the SwRI standard data acquisition system is used, a video recording is made of the actual UT instruments' CRT presentations with the search unit positional information superimposed in real time.*

*SwRI's "state of the art" enhanced data acquisition system has overlapping electronic gating for each UT channel such that a full volume examination is digitized, recorded, and displayed. The SwRI enhanced data acquisition system gating is capable of recording multiple simultaneous indications.*

*All examinations performed in accordance with this Regulatory Guide are performed using a 25-percent overlap, unless a greater overlap is required.*

#### 3.1 Internal Surface

The capability to effectively detect defects at the internal clad/base metal interface shall be considered acceptable if the examination procedure(s) or technique(s) meet the requirements of Section 6.0 of this document and demonstrate the following:

- a. Procedures for examination from the outer surface, or when using full vee from the inside surface, should include the use of the 2-percent notch which penetrates the internal (clad) surface of the calibration blocks, defined by Section XI, Appendix I, Figure I-3131, or Section V, Article 4, Figure T-434-1. Procedures for examination from the internal surface when not using the full vee should conform to paragraph 3.1.b below.
- b. An alternate reflector, other than the 2-percent notch described above, may be used provided: (1) that it is located at the clad/base metal interface or at an equivalent distance from the surface, (2) that it does not exceed the maximum allowable defect size, and (3) that equivalent or superior results can be demonstrated.
- c. The examination procedure(s) should provide for volumetric examination of at least 1-inch of metal as measured perpendicular to the nominal location of the base metal cladding interface.

*SwRI procedures for examination from the outside surface of the vessel wall use the 2-percent notch for reference as specified in paragraph 3.1(a). These procedures also include a half vee calibration with the notch used for evaluation of all indications which appear at the inside surface of the examination area.*

*SwRI procedures for tandem beam examination from the inside surface utilize 1/16-inch diameter side-drilled holes at the clad/base metal interface as described in paragraph 3.1(b). In both cases, SwRI procedures provide for volumetric examination of greater than 1-inch depth below the cladding interface as required by paragraph 3.1(c). SwRI has demonstrated that the reference sensitivity established on the 1/16-inch diameter side-drilled holes meets or exceeds that specified in Section XI of the ASME Code. This technique has also been demonstrated to have the capability of detecting flaws with good signal-to-noise discrimination at depths of at least 2-3/4 inches below the clad-to-base metal interface, thus overlapping the throughwall zone of calibrated sensitivity of the 45-degree and 60-degree beams. Using the tandem beam transducers, SwRI has detected flaws of minute size in the area between the clad-to-base metal interface and the first 45-degree and 60-degree DAC point.*

*SwRI has also used 70-degree dual (side-by-side mounted piezoelectric elements) search units for underclad examinations; however, the useful range is limited to approximately 1-inch of depth below the cladding with no discernible improvement over the tandem beam search unit at the clad-to-base metal interface.*

### 3.2 Scanning Weld-Metal Interface

The beam angles used to scan welds should be based on the geometry of the weld/parent metal interface. Where feasible for welds such as those identified in Section T-441.4.2 of Article 4, Section V, of the ASME Code, at least one angle should be such that the beam is perpendicular ( $\pm 15$  degrees to perpendicular) to the weld/parent metal interface, or it should be demonstrated that unfavorably oriented planar flaws can be detected by the UT technique being used. If this is not feasible, use of alternative volumetric NDE techniques, as permitted by the ASME Code, should be considered.

For RPV shell seam welds, SwRI uses the nominal Code-specified 0-degree, 45-degree, and 60-degree beams to examine the full volume of the wall section except for the volume of material near the beam entry point, for which we use the previously mentioned tandem search units.

Section T-441.4.2 (or T-441.3.2.2 of the 1986 Edition of Article 4, Section V states that beam angles other than 0-degree, 45-degrees, and 60-degrees should be used for the examination of (a) flange welds when the examination is conducted from the flange face, (b) nozzles and nozzle welds when the examination is conducted from the nozzle bore, (c) attachment and support welds, and (d) examination of double taper junctions. SwRI has employed this approach for many years.

SwRI procedures, however, often provide more than code specified coverage where feasible. Each of the unique weld configurations noted above is evaluated to determine the best and most comprehensive coverage attainable. Where necessary, other angle and straight beam examinations are performed to assure complete coverage of nozzle-to-shell, vessel-to-flange and attachment welds. Previously mentioned tandem beam techniques are also utilized to provide the required near surface coverage when nozzle bore examinations are performed.

#### 4. BEAM PROFILE

Delete entire paragraph. This section included in Recommended Change 1.2.f, Angle Beam Profile Characterization.

#### 5. SCANNING WELD-METAL INTERFACE

Delete entire paragraph. This section included in Recommended Change 3.2, Scanning Weld-Metal Interface.

#### 6. RECORDING AND SIZING

The capability to detect, record, and size the flaws delineated by Section XI, IWB-3500, should be demonstrated. The measurement tolerance established should be applied when sizing flaws detected and recorded during scanning (see paragraph 7.a).

*The requirement to demonstrate the capability to detect, record, and size flaws can be interpreted many ways. A liberal interpretation might be that years of industry experience has demonstrated that Code techniques are capable of detecting, recording and sizing flaws. A conservative interpretation might be that a mockup of every conceivable weld configuration should be fabricated containing implanted flaws and examined in order to demonstrate and document the capability. SwRI feels that the real need is somewhere in between.*

*We have considerable experience and documentation to show that the 45-degree and 60-degree Code examinations and those using the tandem probes are effective for detecting and recording flaws in seam welds when scanning from either the inside or outside surface of the vessel. Our experience also shows that beam angles that are designed to be essentially normal to the weld are effective in detecting and recording flaws in the nozzle-to-shell welds from the nozzle bore. By virtue of actual flaw*

*detection using current techniques, SwRI's UT procedures are well qualified.*

*Although the capabilities of SwRI procedures to detect and record flaws has been demonstrated on a significant variety of test specimens and in reactor vessels during actual inservice and preservice examinations, it cannot be practically demonstrated that the techniques and equipment have the capability to size flaws with any predictable tolerance. Many research studies throughout the history of the nuclear industry have attempted to quantify the sizing ability of various NDE applications, none have established universally accepted results. The different joint configurations, plate thicknesses, flaw locations within the weld, flaw orientations, and acoustic characteristics of the component material all contribute to the inherent variability of sizing techniques.*

*As always, SwRI will continue to recommend to our customers the thorough evaluation of any flaws that are detected and recorded during our examinations. These recommendations have included, and will continue to include, Code and non-Code sizing techniques, the use of supplemental NDE techniques if practical, construction of mock-ups of the particular configuration in question, research of data from similar examinations and studies, and calling in consultants with particular expertise in the type of problem (from outside SwRI if appropriate) to fully evaluate the examination and the results. We will also assist our clients in every way possible with NRC evaluations of reportable indications and in the use of Fracture Mechanics techniques, if necessary.*

#### 6.1 Geometric Indications

Indications determined to be from geometric sources need not be sized. Recording of these indications should be at 50-percent DAC. When indications are evaluated as geometric in origin, the basis for that determination should be described. After recording sufficient information to identify the origin of the geometric indication, further recording and evaluation are not required.

*Indication analysis and sizing is performed as an independent onsite activity by SwRI. All of the examination data is reviewed by Level II or Level III examiners to the extent necessary to determine the origin of any recorded indications.*

*Indications that are geometric in origin are recorded at 50 percent DAC and the nature of each such indication is documented.*

#### 6.2 Indications with Changing Metal Path

- a. Indications that change metal path distances (indicating throughwall dimension), when scanned in accordance with the requirements of ASME Section XI for a distance greater than that recorded from the calibration reflector, should be recorded.
- b. Reflectors which are at metal paths representing 25 percent and greater of the throughwall thickness of the vessel wall measured from the inner surface should be recorded in accordance with the requirements of ASME Section XI and



characterized at 50-percent DAC.

- c. Reflectors which are within the inner 25-percent of the throughwall thickness should be recorded at 20-percent DAC. Characterization should be in accordance with the demonstrated methods under paragraph 6.0. When the indication is sized at 20-percent DAC, the size may be corrected by subtracting the beam width in the through-thickness direction obtained from the calibration hole (between 20-percent DAC points) which is at a depth similar to the flaw depth. If the indication exceeds 50-percent DAC, the length should be recorded by measuring the distance between 50-percent DAC levels. The determined size should be the larger of the two.

*SwRI believes that the intent of this paragraph is to require that the examiner attempt to determine and document the most accurate size of a reflector having throughwall dimension. To the extent practicable, SwRI data analysis of travelling indications is performed in accordance with these requirements.*

*SwRI typically performs both 20-percent and 50-percent beam spread measurement at the time of calibration in case the information is needed during data analysis. However, sizing with beam spread correction at 20-percent DAC should not be generally applied without caution as this approach produces widely varied sizing data, including negative flaw sizes in certain cases.*

*For tandem beam search units, the use of beam spread correction for sizing is not normally applicable because of the unique beam profile characteristics. When near surface indications are observed during a vessel examination, SwRI routinely applies one or more special sizing techniques in order to obtain the best estimate of the flaw size before comparing the size to the acceptance criteria of Section XI.*

*In general, SwRI concurs with the specified approach, but also recommends application of selected alternate sizing techniques when necessary based upon a case-by-case evaluation to determine which technique is considered most appropriate for the anticipated flaw type and orientation.*

### 6.3 Indications Without Changing Metal Path

- a. Indications which do not change metal path distance when scanned in accordance with the requirements of ASME Section XI and are within the outer 75-percent of the throughwall dimension should be recorded when any continuous dimension exceeds 1-inch.
- b. If the indication falls within the inner 25-percent of the throughwall dimensions, it should be recorded at 20-percent DAC and evaluated at 50-percent DAC.
- c. Precautionary note: Indications lying parallel to welds may appear as nontraveling (without changing metal path) when scanned by parallel moving transducers whose beams are aimed normal to the weld, i.e., at 90-degrees. Multiple scans, however, may reveal that these indications are traveling indications. If so, recording and sizing are to be done in accordance with paragraph 6.2.

To the extent practicable, SwRI data analysis of nontravelling indications is performed in accordance with these requirements, along with the use of additional sizing techniques where appropriate.

The precautionary note of Paragraph 6.3.c is appropriate. To alleviate this concern, SwRI performs scanning in the direction of the beam component wherever possible. In those instances when this preferred mode of scanning cannot be utilized, SwRI procedures address this concern by requiring additional scans of (along the sound beam direction) of any nongeometric angle-beam indication observed during scans made parallel to the weld. These additional scans are performed using small scan increments (or large transducer overlap) in order to develop a very accurate data set. This data set allows a determination of whether the indication is a traveling or nontraveling indication and also provides accurate data for sizing purposes if necessary.

#### 6.4 Additional Recording Criteria

The following information should also be recorded for indications that are reportable according to this regulatory position:

- a. Indications should be recorded at scan intervals no greater than 1/4-inch.
- b. The recorded information should include the indication travel (metal path distance) and the transducer position for 20-percent (where applicable), 50-percent, and 100-percent DAC and the maximum amplitude of the signal.
- c. When multichannel equipment is used in the examination system such that all examination displays are not available for simultaneous viewing, an electronic gating system should be used which will provide on-line, reproducible, recorded information regarding metal path, amplitude, and position of all indications exceeding a present level. The represent level should be the minimum recording level required. To ensure that all recordable indications are recorded, a preferred method would incorporate multigates in each channel or a single gate for each channel with multi-indication recording capability.

*In reference to Paragraph 6.4.a, SwRI typically performs initial scanning using a 25% overlap as specified in Paragraph 3. However, data to be utilized for specific sizing or investigation of indications that exceed the allowable limits of Section XI is acquired at 1/4-inch scan intervals.*

*The information required in Paragraph 6.4.b is typically recorded by SwRI for all vessel examinations, whether the examination is performed manually or using automated equipment.*

*In reference to Paragraph 6.4.c which addresses the use of multi-channel equipment, the SwRI standard data acquisition system satisfies this requirement by virtue of the video recording of the instrument screens. Since the entire screen presentation is recorded, simultaneous multiple signals are recorded if encountered. The data analysis process also includes review of all of the video tape data thereby ensuring that each recorded signal is reviewed and analyzed.*

*SwRI's "state of the art" enhanced data acquisition system has the capability to*

*individually record simultaneous multiple indications by digitizing and storing the entire waveform, thus significantly streamlining and accelerating the data acquisition and analysis process.*

## 7. REPORTING OF RESULTS

Records obtained while following the recommendations of regulatory positions 1.2, 3, and 6, along with discussions and explanations, if any, should be kept available at the site. If the size of an indication, as determined in regulatory positions 6.2 or 6.3, exceeds the allowable limits of Section XI of the ASME Code, the indications should be reported as abnormal degradation of reactor pressure boundary in accordance with the recommendation of regulatory position 2.a(3) of Regulatory Guide 1.16.

Along with the report of ultrasonic examination test results, the following information should also be included:

- a. The best estimate of the tolerances in sizing of flaws at the sensitivity required in Section 6 and the basis for this estimate.

This estimate may be determined in part by the use of additional reflectors in the basic calibration block.

- b. A description of the technique used to qualify the effectiveness of the examination procedure, including, as a minimum, material, section thickness, and reflectors.
- c. The best estimates of the portion of the volume required to be examined by the ASME Code that has not been effectively examined such as volumes of material near each surface because of near-field or other effects, volumes near interfaces between cladding and parent metal, geometry, volumes inaccessible to the transducer, volumes affected by electronic gating, and volumes near the surface opposite the transducer.\*

Sketches and/or descriptions of the tools, fixtures, and component geometry which contribute to incomplete coverage should be included.

- d. Provide sketches of equipment (i.e., scanning mechanism and transducer holders) with reference points and necessary dimensions to allow a reviewer to follow the equipment's indication location scheme.
- e. When other volumetric techniques are used, a description of the techniques used should be included in the report.

\* It should be noted that the licensee is required to apply for relief from impractical ASME Code requirements according to 50.55a of 10CFR. If the licensee is committed to examine a weld as per the inspection plan in the plant SAR, the licensee is required to file an amendment when the commitments made in the SAR cannot be met.

*In reference to Paragraph 7.a, SwRI feels that the sizes obtained using Code sizing techniques should be used consistently for comparison to Code acceptance standards whenever possible. Based on SwRI experience, Code sizing techniques appear to be somewhat conservative, however, there is little evidence to support the feasibility of developing specific tolerances or correction factors for Code sizing techniques. Nor is*

there significant evidence of improved accuracy and consistency resulting from the use of any one alternate sizing technique. Alternate sizing methods must be used carefully and, in effect, should be used only when it can be determined that the Code sizing techniques are, for some reason, inappropriate for the specific type of flaw encountered.

These statements do point out that flaw sizes based on UT are estimates. We, of course, have varying degrees of confidence in flaw size estimates depending on pertinent examination variables. Since the ramifications of our flaw size estimations are very great, SwRI will typically recommend certain actions to our customer which can increase our confidence in flaw size estimation. These recommendations may include actions such as:

- a) placing additional holes in the calibration block
- b) constructing mock-ups of the examination area
- c) using other NDE equipment
- d) applying alternate NDE methods
- e) performing certain laboratory tests
- f) calling in specialists with particular experience in similar problems.

In reference to Paragraph 7.b, the basis for all SwRI procedure qualifications is documented and available for audit by client or regulatory personnel at any time.

In reference to Paragraph 7.c, SwRI provides a detailed limitations report for all reactor vessel examinations. The limitations report is a combination of tables and sketches that depict and quantify the various limitations to the Code required coverage. These reports compile all of the various pertinent data into a concise, understandable format and can be used as the basis for Relief Requests if necessary.

The information identified in Paragraph 7.d is routinely provided in the SwRI Scan Plan prior to performance of examinations. In addition, a copy of the "as executed" Scan Plan is reproduced and included in the SwRI Final Report.

In reference to Paragraph 7.e, when alternate techniques are utilized, either for examination or sizing purposes, a complete description of the application and results is included in the SwRI Final Report.

APPENDIX K

PRESERVICE EXAMINATION LIMITATIONS FOR THE  
REACTOR PRESSURE VESSEL

## APPENDIX K

### PRESERVICE EXAMINATION LIMITATIONS FOR THE REACTOR PRESSURE VESSEL

#### Introduction

The South Texas Project Electric Generating Station (STPEGS), Unit 2, Reactor Pressure Vessel (RPV) welds and examination areas were examined during the preservice examinations (PSI) in accordance with ASME Section XI Code and U.S. NRC Regulatory Guide 1.150 (RG 1.150). Some limitations to examination coverage were experienced during mechanized and manual PSI examinations. These limitations were defined and quantified in terms of examination areas and volumes required by Section XI and the requirements of RG 1.150.

Two generic types of limitations to examination coverage were encountered during the PSI of the STPEGS 2 RPV welds and components:

- (1) Component geometric interference with the scanning equipment and
- (2) Geometric shadowing of examination areas.

SwRI procedures implemented during the STPEGS 2 RPV examinations met or exceeded the requirements of ASME Section XI 1980 Edition with Addenda through Winter 1981 as well as U.S. NRC Regulatory Guide 1.150, Revision 1. SwRI procedures required examination of 100 percent of all RPV welds and examination areas, and this baseline examination coverage was achieved with very few exceptions where accessibility limitations were encountered. The examination coverage that was obtained on all RPV welds and examination areas is documented herein.

#### Description of Limitations

The attached Table 1 and Figures 1 through 9 detail the examination coverage attained during the STPEGS 2 RPV PSI. Specifically, the tables quantify the coverage in terms of percent of Code-required examination volume which was effectively covered with each beam component. The accompanying figures graphically depict the location and extent of the limitations with respect to weld metal and associated base material. The computed values for percent coverage do not include any consideration for beam spread except in the case of the single scan with three beams of the shell-to-flange weld from the flange seal surface. The percent coverage values for the 50/70-degree examinations are calculated on depth of calibration as specified in the procedure.

#### RPV Lower Head Welds

The Bottom Head Torus-to-Bottom Head Dome Weld, No. RPV2-102-151, received a limited examination due to interference from the in-core instrumentation tubes. Figure 3 depicts the inside surfaces not accessible to the search units. Table 1 identifies the volume of weld and base material examined with each search unit beam angle. It should be noted that the ASME Code recognizes the inherent limitations to the lower head weld examinations imposed by the instrumentation tubes and specifies that 100 percent of the "accessible" portions of these welds shall be examined. Nevertheless, the percent coverage identified in Table 1 is calculated in terms of full weld length.

Portions of the Lower Head Meridional Welds, Nos. RPV2-101-154A through D, were also inaccessible due to interference from the instrumentation tubes and the core support and antirotation lugs as shown in Figures 2 and 3 and Table 1.

#### **RPV Circumferential Shell Welds**

The examination of the Lower Shell-to-Bottom Head Torus Weld, No. RPV2-101-141, was limited due to interference from the core support and antirotation lugs. Figure 2 is a rollout view of the scan surface limitations. Table 1 lists the coverage for each beam component in terms of percent of total weld and base metal examination volume.

No limitations were encountered during examination of the Intermediate Shell-to-Lower Shell Circumferential Weld, No. RPV2-101-171, nor during examination of the Upper Shell-to-Intermediate Shell Weld, No. RPV2-103-121.

Limitations to the examination of the Flange-to-Upper Shell Weld, No. RPV2-101-121, were due to interference from the outlet nozzle integral extensions. These were very small limitations to scanning and are depicted in Figure 1. Weld No. RPV2-101-121 was also examined by three beams oriented nearly normal to the weld plane from the flange seal surface with no limitation to scanning.

#### **RPV Longitudinal Shell Welds**

No limitations were experienced during examination of the Lower Shell Course or Intermediate Shell Course Longitudinal Welds, Nos. RPV2-101-142A through C and RPV2-101-124A through C. Examination of the Upper Shell Course Longitudinal Weld, Nos. RPV2-101-122A through C, were limited due to interference from adjacent or intersecting nozzles as shown on Figure 1. Table 1 quantifies those limitations. It should be noted that the longitudinal weld examination limitations were ameliorated to some extent during the nozzle-to-shell weld examinations although search unit skew angles varied from parallel and transverse to the longitudinal welds.

#### **Closure Head Welds**

The examinations of the RPV closure head welds were performed using a manual ultrasonic technique from the outside surface. The Closure Head Torus-to-Flange Weld, No. RPV2-101-101, was examined with limitations on the flange side due to the flange configuration and location to the weld. The Closure Head Dome-to-Closure Head Torus Weld, No. RPV2-103-101, was examined and limitations were encountered due to the insulation support ring and head lifting lugs. The location of the closure head weld limitations are shown on Figures 6 and 7 and a table of coverage achieved is located in Table 1. No limitations were experienced during examination of the Meridional Closure Head Welds, Nos. RPV2-101-104A through D.

#### **Nozzle-to-Shell Welds and Nozzle Inner Radius**

The inlet and outlet nozzle-to-shell welds were examined from the vessel wall and from the nozzle bore. Straight-beam and transverse examinations performed from the vessel wall were limited on the nozzle forging side of the weld due to the nozzle configuration as shown in Figures 8 and 9. Nozzle configuration also shadowed the straight-beam and angle-beam examinations performed from the nozzle bores as shown in Figures 4 and 5. The Code-defined nozzle inner radius sections were nevertheless covered quite adequately using 50/70-degree search units in the nozzle bores and also from the blend itself in the case of the inlet nozzles. Table 1 lists the coverage achieved with each search unit beam component.

### Nozzle-to-Safe End Welds

The examinations of the Outlet Nozzle-to-Safe End and Safe End-to-Inlet Nozzle Welds were performed from both the outside surface and inside surfaces. Examination of the lower one-third examination volume was performed using the 50/70-degree search units on the inside surface. Liquid penetrant surface examination was performed on the outside surface of the welds. No limitations were experienced during the examinations of the Nozzle-to-Safe End Welds.

### Bolting

Magnetic particle examination was performed on all surfaces of the closure nuts except the threaded portion, which could not be examined due to magnetic particle yoke access requirements. Ultrasonic examination was performed as a supplemental examination of the threaded area. However, ultrasonic coverage of the threaded area was limited due to the presence of spanner wrench slots on the outside surface of the nuts. Examination coverage of the closure nuts is identified in Table 1.

The RPV Roto-Lok closure studs are unique in their breech lock installation design. In order to achieve maximum coverage in accordance with ASME Code Case N-307-1, several nondestructive testing procedures were utilized. First, a fluorescent magnetic particle examination was performed on the outer surface of the stud. Then a fluorescent liquid penetrant examination was performed on the inside surface of the stud, excluding the 0.625-inch diameter portion of the inside bore. Examination of the inside surface of the 0.625-inch diameter bore was accomplished with a high-angle (88 degrees) refracted longitudinal ultrasonic stud probe. Finally, the outer 1/4 inch of the nonthreaded portion, threads, and Roto-Lok lugs, was examined with a combination of 45- and 60-degree angle beams using search unit wedges and a 60-degree angle beam using a stud probe. Examination coverage of the studs was limited due to the configuration of the Roto-Lok lugs and is shown in Table 1.

The RPV Flange Threads were examined ultrasonically with a 0-degree search unit for a minimum depth of one closure stud diameter and one inch of base metal from the threaded surface. No limitations were experienced during these examinations.

The RPV Flange Bushings were examined with the visual method and were supplemented at the request of HL&P with a 0-degree examination as well. No limitations were experienced during the examinations of the Flange Bushings.

The RPV Closure Stud Washers were examined visually and no limitations were experienced during these examinations.

### Vessel Interior, Attachments, and Core Support Structure

The Vessel Interior, Attachments and Core Support Structure were examined with the visual method. The Vessel Interior and Attachments were examined during the mechanized examinations of the RPV and were performed with the PaR device and remote video camera system and recorded on video tape. No limitations were experienced during these examinations. The Vessel Core Support Structure was examined manually and recorded on video tape with a video camcorder with one exception. Item No. 26 (Lower Core Support Assembly - Fuel Pin to Core Support Locking Devices) was not accessible for examination during the video taping. The fabrication visual examinations will be used for PSI of Item No. 26. Therefore, complete coverage of the Core Support Structure was attained with the visual method during these examinations.



### Control Rod Drive Housing Welds

The Control Rod Drive Housing welds were examined with a liquid penetrant examination method and included 100 percent of the peripheral control rod drive housings.

Table 1

## RPV EXAMINATION COVERAGE

Weld Description and Weld No.	Exam Angle (Deg.)	Percent of Volume Examined	Figure No.
<u>ASME Examination Category B-A:</u>			
<u>Code Item No. B1.11</u>			
RPV2-103-121	0	100.00	1
	45	100.00	1
	45T	100.00	1
	60	100.00	1
	60T	100.00	1
	50/70	100.00	1
	50/70T	100.00	1
RPV2-101-171	0	100.00	2
	45	100.00	2
	45T	100.00	2
	60	100.00	2
	60T	100.00	2
	50/70	100.00	2
	50/70T	100.00	2
RPV2-101-141	0	64.16	2
	45	80.08	2
	45T	79.87	2
	60	88.25	2
	60T	83.09	2
	50/70	93.14	2
	50/70T	93.14	2
<u>Code Item No. B1.12</u>			
RPV2-101-122A	0	40.24	1
	45	40.24	1
	45T	53.58	1
	60	40.24	1
	60T	63.34	1
	50/70	49.12	1
	50/70T	49.12	1

Table 1

## RPV EXAMINATION COVERAGE (Cont'd)

Weld Description and Weld No.	Exam Angle (Deg.)	Percent of Volume Examined	Figure No.
<u>Code Item No. B1.12 (Cont'd)</u>			
RPV2-101-122B	0	93.56	1
	45	93.56	1
	45T	97.22	1
	60	93.56	1
	60T	97.18	1
	50/70	92.18	1
	50/70T	92.18	1
RPV2-101-122C	0	76.33	1
	45	76.33	1
	45T	91.92	1
	60	76.33	1
	60T	95.57	1
	50/70	96.76	1
	50/70T	96.76	1
RPV2-101-124A	0	100.00	N/A
RPV2-101-124B	45	100.00	N/A
RPV2-101-124C	45T	100.00	N/A
RPV2-101-142A	60	100.00	N/A
RPV2-101-142B	60T	100.00	N/A
RPV2-101-142C	50/70	100.00	N/A
	50/70T	100.00	N/A
<u>Code Item No. B1.21</u>			
RPV2-103-101	0	69.74	6,7
	45	97.37	6,7
	60	98.71	6,7
	45T	69.74	6,7
	60T	69.74	6,7
RPV2-102-151	0	49.19	3
	45	48.24	3
	45T	48.24	3
	60	52.46	3
	60T	52.46	3
	50/70	47.00	3
	50/70T	47.00	3

Table 1

## RPV EXAMINATION COVERAGE (Cont'd)

Weld Description and Weld No.	Exam Angle (Deg.)	Percent of Volume Examined	Figure No.
<u>Code Item No. B1.22</u>			
RPV2-101-154A	0	82.36	2.3
	45	82.36	2.3
	45T	79.91	2.3
	60	82.36	2.3
	60T	86.27	2.3
	50/70	81.00	2.3
	50/70T	81.00	2.3
RPV2-101-154B	0	94.87	2.3
	45	96.27	2.3
	45T	97.87	2.3
	60	96.14	2.3
	60T	98.68	2.3
	50/70	97.61	2.3
	50/70T	97.61	2.3
RPV2-101-154C	0	95.58	2.3
	45	96.10	2.3
	45T	97.12	2.3
	60	96.24	2.3
	60T	98.30	2.3
	50/70	99.94	2.3
	50/70T	99.94	2.3
RPV2-101-154D	0	65.54	2.3
	45	65.54	2.3
	45T	75.78	2.3
	60	65.34	2.3
	60T	85.41	2.3
	50/70	74.10	2.3
	50/70T	74.10	2.3
RPV2-101-104A	0	100.00	N/A
RPV2-101-104B	45	100.00	N/A
RPV2-101-104C	60	100.00	N/A
RPV2-101-104D	45T	100.00	N/A
	60T	100.00	N/A

RPV EXAMINATION COVERAGE (Cont'd)

Weld Description and Weld No.	Exam Angle (Deg.)	Percent of Volume Examined	Figure No.
<u>Code Item No. B1.30</u>			
RPV2-101-121	0	100.00	1
	45	100.00	1
	45T	100.00	1
	60	98.50	1
	60T	100.00	1
	50/70	100.00	1
	50/70T	100.00	1
	1.5, 9, & 5	100.00	1
<u>Code Item No. B1.40</u>			
RPV2-101-101	0	95	6
	45	98.65	6
	60	96.63	6
	45T	95	6
	60T	95	6
<u>ASME Examination Category B-D</u>			
<u>Code Item No. B3.90</u>			
RPV2-105-121A	6 (From Bore)	60.08	4
RPV2-105-121B	45	95.69	4
RPV2-105-121C	0 (From Wall)	32.92	8
RPV2-105-121D	45T	32.92	8
	60T	32.92	8
	50/70	42.77	8
RPV2-107-121A	0 (From Bore)	97.21	5
RPV2-107-121B	45	95.02	5
RPV2-107-121C	0 (From Wall)	31.20	9
RPV2-107-121D	45T	31.20	9
	60T	31.20	9
	50/70	41.72	9
<u>Code Item No. B3.100</u>			
RPV2-N1AIR	50/70 (From Bore)	100.00	N/A
RPV2-N1BIR			
RPV2-N1CIR			
RPV2-N1DIR			

Table 1

## RPV EXAMINATION COVERAGE (Cont'd)

Weld Description and Weld No.	Exam Angle (Deg.)	Percent of Volume Examined	Figure No.
<u>Code Item No. B3.100 (Cont'd)</u>			
RPV2-N2AIR RPV2-N2BIR RPV2-N2CIR RPV2-N2DIR	50/70 (From Bore and Blend Radius)	100.00	N/A
<u>ASME Examination Category B-F</u>			
<u>Code Item No. B5.10</u>			
RPV2-N1ASE RPV2-N1BSE RPV2-N1CSE RPV2-N1DSE	0 (From ID) 50/70 PT (From OD)	100.00 100.00 100.00	N/A N/A N/A
RPV2-N2ASE RPV2-N2BSE RPV2-N2CSE RPV2-N2DSE	0 (From ID) 50/70 PT (From OD)	100.00 100.00 100.00	N/A N/A N/A
<u>ASME Examination Category B-G-1</u>			
<u>Code Item No. B6.10</u>			
RPV Closure Nuts	0 43 MT	91.00 91.00 100.00	N/A N/A N/A
<u>Code Item No. B6.30</u>			
RPV Closure Studs	45/60 88/MT/PT	95.00 100.00	N/A N/A
<u>Code Item No. B6.40</u>			
RPV Flange Threads	0	100.00	N/A
<u>Code Item No. B6.50</u>			
RPV Flange Bushings	VT-1 0	100.00 100.00	N/A N/A

Table 1

## RPV EXAMINATION COVERAGE (Cont'd)

Weld Description and Weld No.	Exam Angle (Deg.)	Percent of Volume Examined	Figure No.
<u>Code Item No. B6.50 (Cont'd)</u>			
RPV Closure Head Washers	VT-1	100.00	N/A
<u>ASME Examination Category B-N-1</u>			
<u>Code Item No. B13.10</u>			
Vessel Interior	VT-3	100.00	N/A
<u>ASME Examination Category B-N-2</u>			
<u>Code Item No. B13.31</u>			
Attachments	VT-3	100.00	N/A
<u>ASME Examination Category B-N-3</u>			
<u>Code Item No. B13.32</u>			
Core Support Structure	VT-3	100.00	N/A
<u>ASME Examination Category B-O</u>			
<u>Code Item No. B14.10</u>			
Control Rod Drive Housing Welds	PT	100.00	N/A

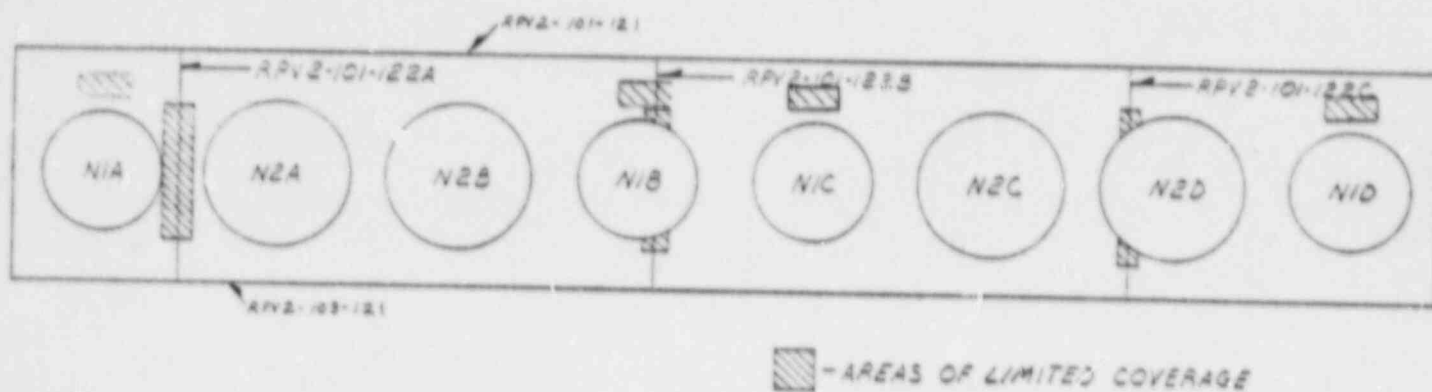


Figure 1. Upper shell limitations

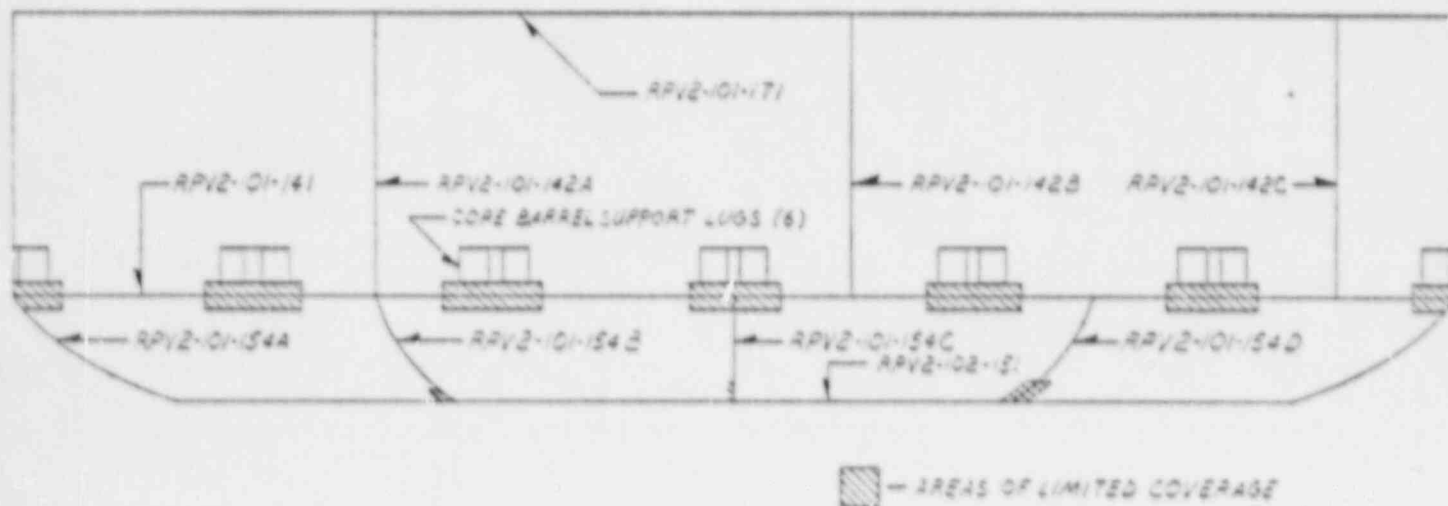


Figure 2. RPV Lower shell and lower head limitations



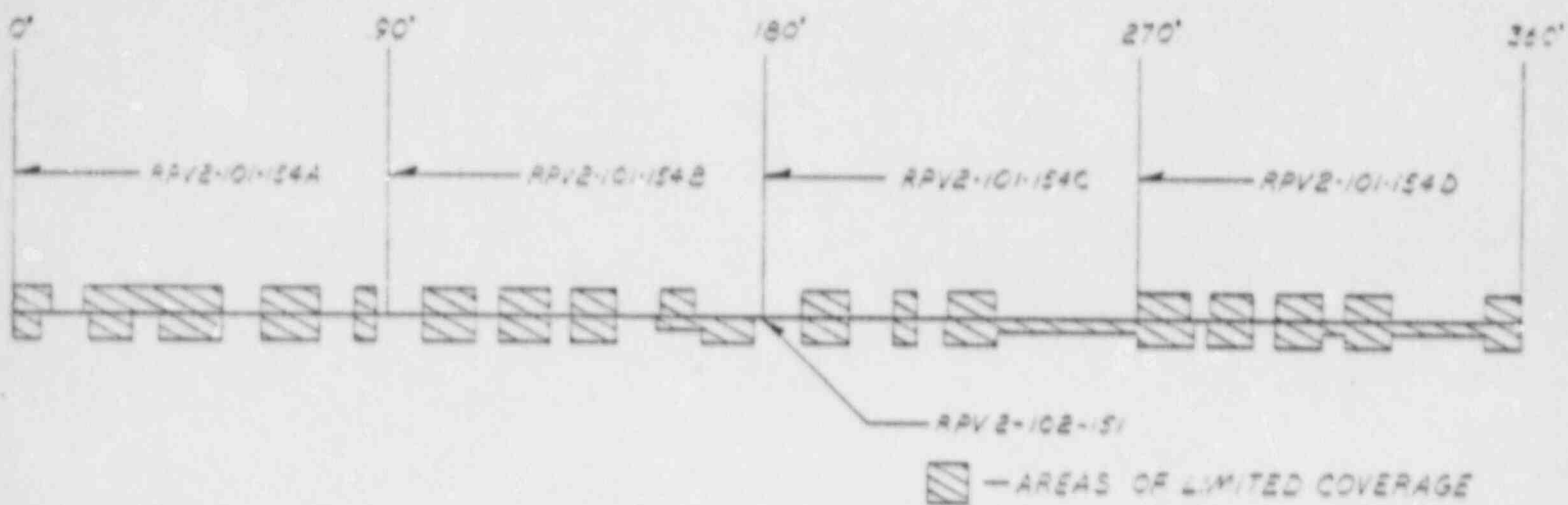


Figure 3. Bottom head torus-to-bottom head dome limitations

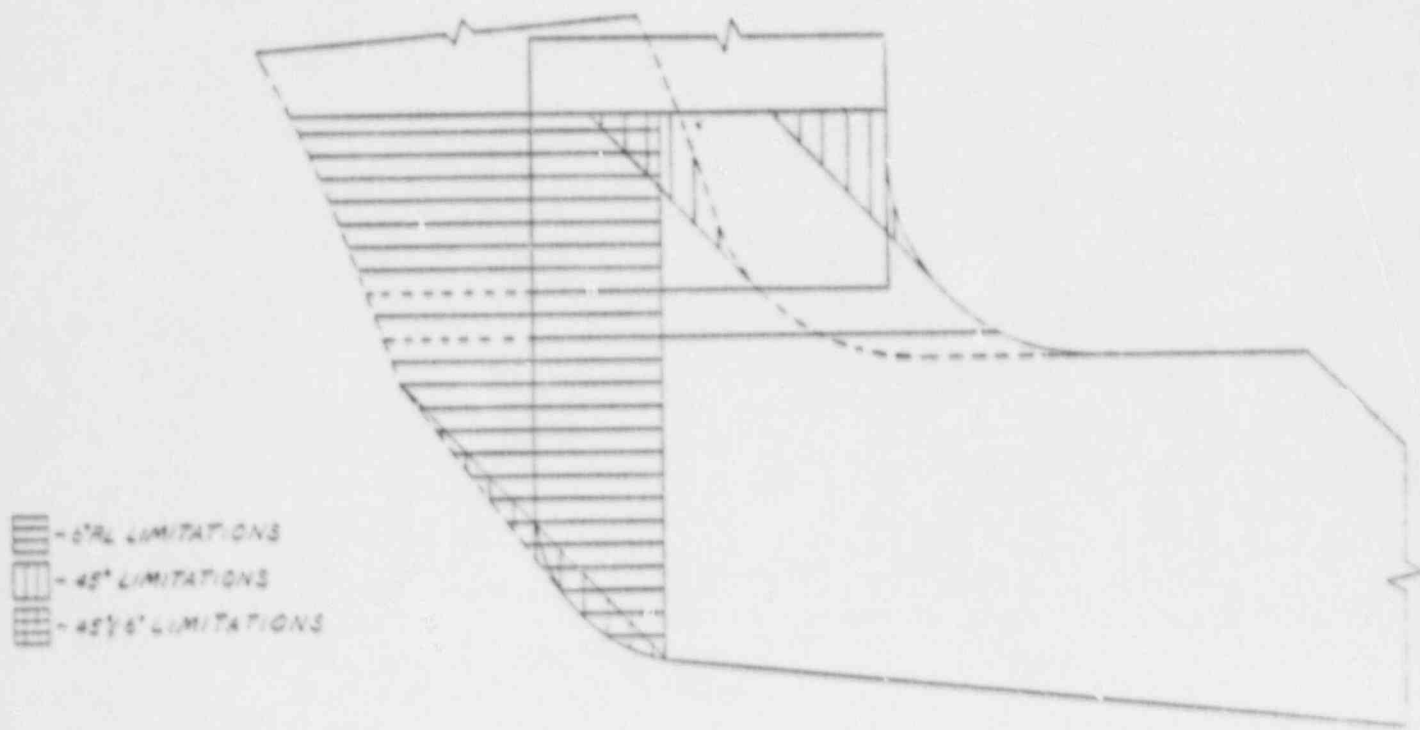


Figure 4. Typical inlet nozzle limitations from bore

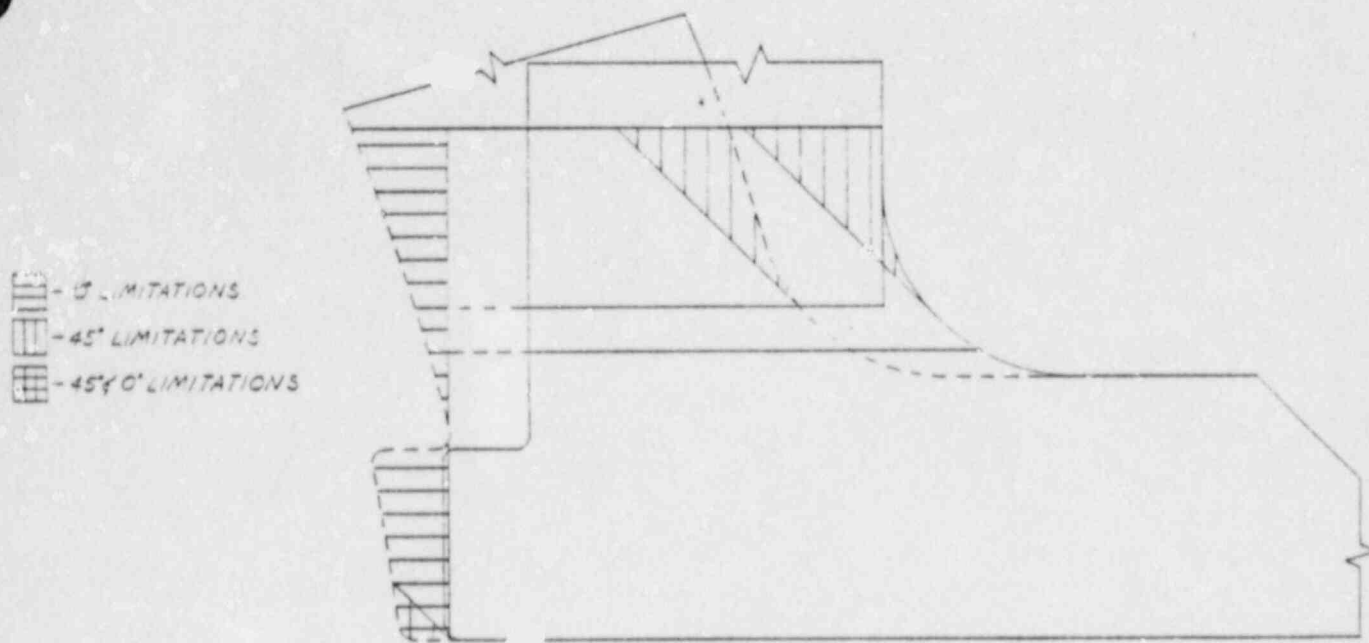


Figure 5. Typical outlet nozzle limitations from bore

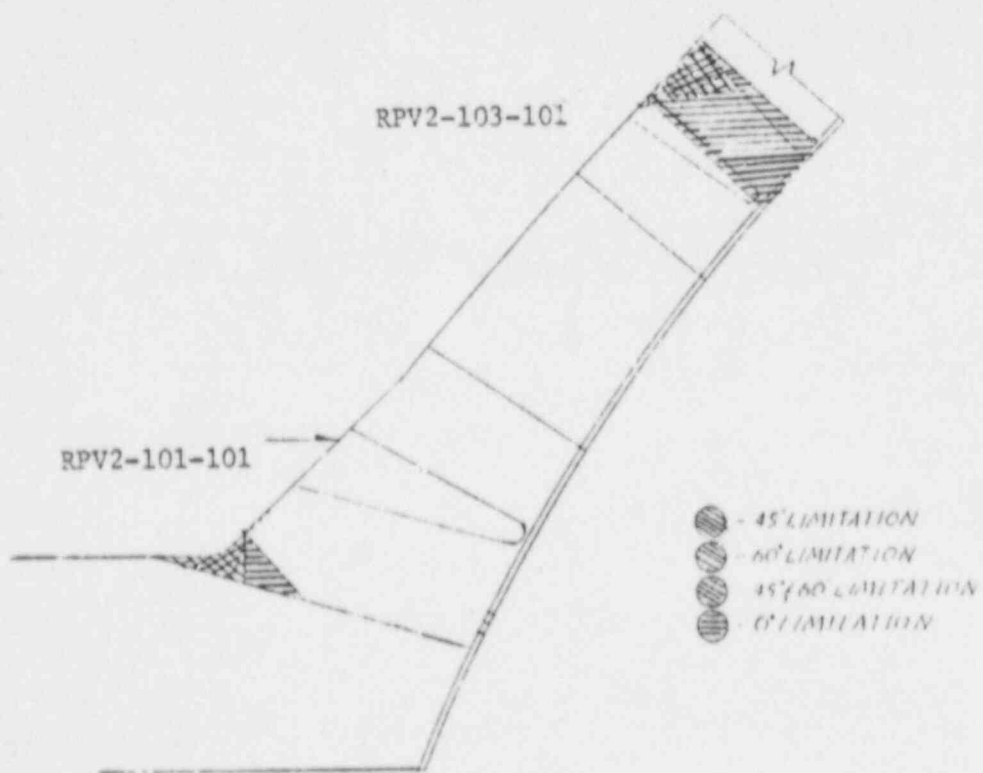
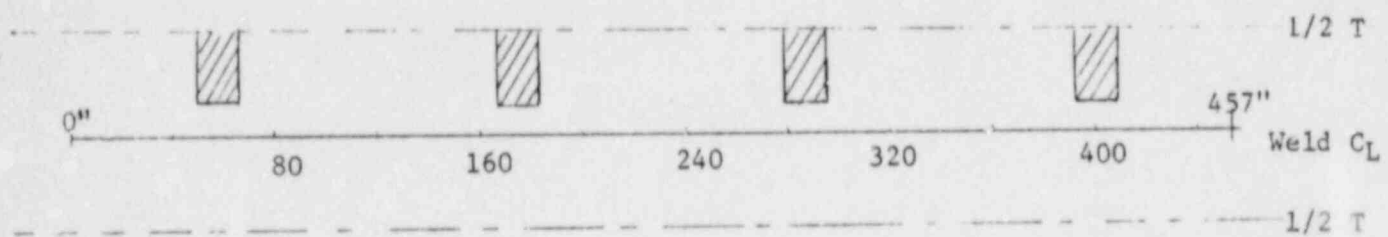


Figure 6. RPV closure head




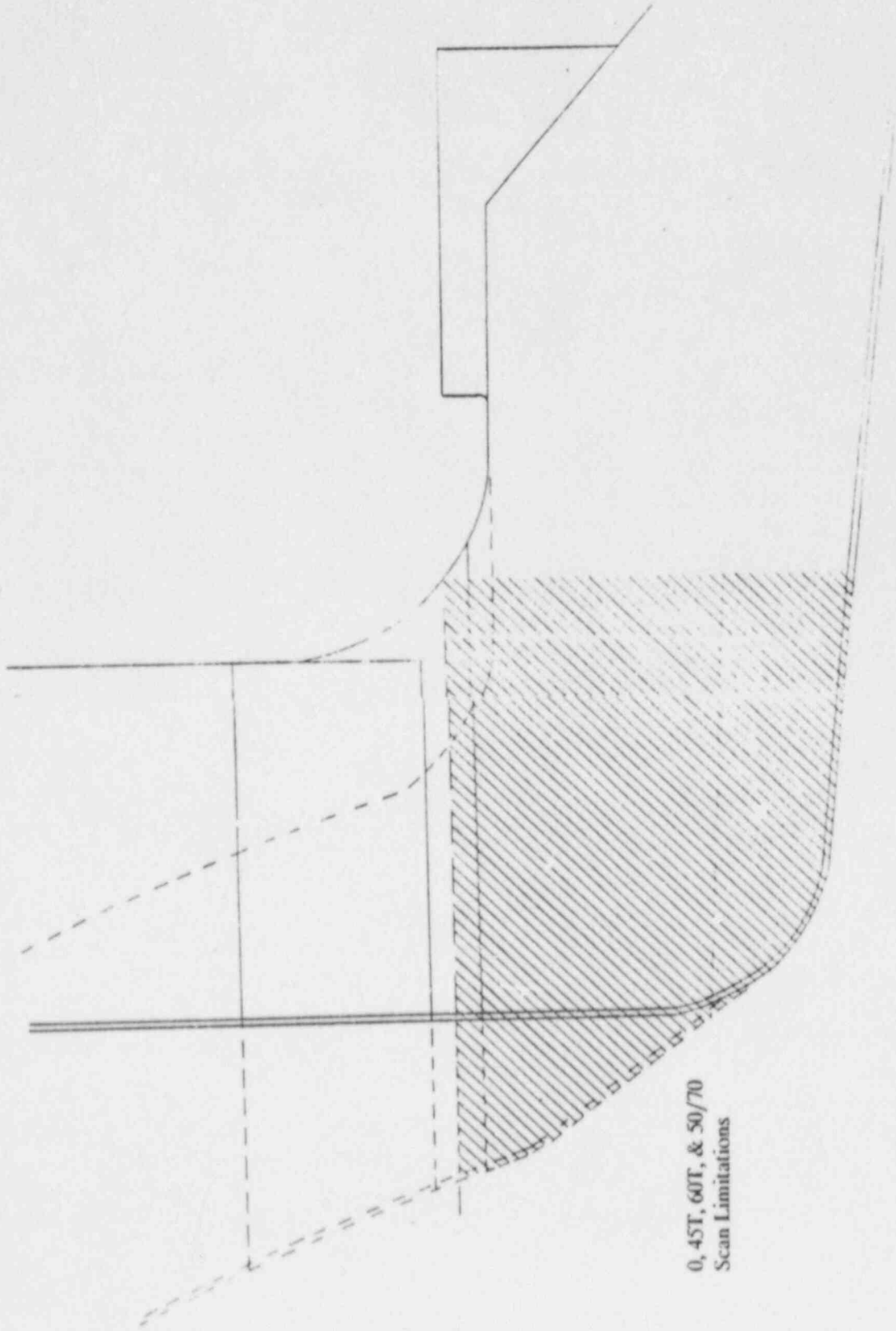
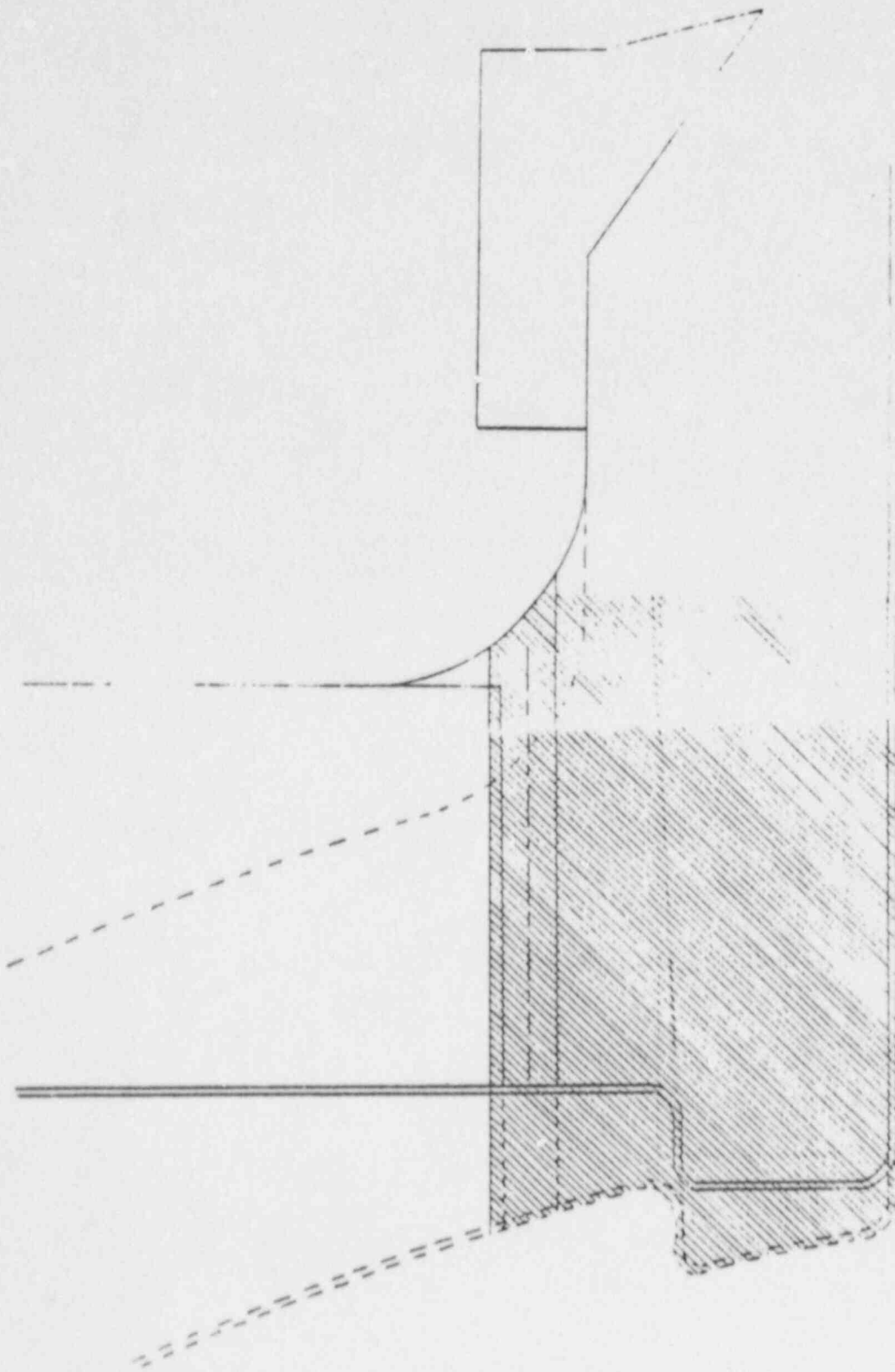
 Limited Area of 0 , 45 , 60  
 45T, and 60T due to Support Ring

Figure 7. Closure head dome to closure head torus weld layout 2



0, 45T, 60T, & 50/70  
Scan Limitations

Figure 8. Typical inlet nozzle limitations from vessel wall



0, 45T, 60T, & 50/70  
Scan Limitations

Figure 9. Typical outlet nozzle limitations from vessel wall

APPENDIX L

PRESERVICE EXAMINATION LIMITATIONS FOR  
CLASS 1 AND CLASS 2 COMPONENTS  
(EXCLUDING THE RPV)

APPENDIX L

PRESERVICE EXAMINATION LIMITATIONS FOR  
CLASS 1 AND CLASS 2 COMPONENTS  
(EXCLUDING THE RPV)

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
SUMMARY OF PRESERVICE EXAMINATION LIMITATIONS

The following tables provide details on the limitations which were encountered during the Preservice Examinations (PSI) at the South Texas Project Electric Generating Station (STP), Unit 2. Each table of this summary provides the following information as described:

Column 1 - Class/Category/Item No./Examination Requirement

Identifies the ASME Section XI Code Class, Category, Item Number and Examination Requirement (volumetric or surface) for the specific examination area listed in Column 2. This information is derived from Tables IWB-2500-1 and IWC-2500-1 of the 1980 Edition of ASME Section XI (with Addenda through Winter 1981).

Column 2 - Line No./Subassembly  
Weld Identification  
Weld ID Figure  
Weld Configuration  
Examination Method

Provides information for each examination area by line number (piping) or subassembly number (vessel), unique weld identification number, SWRI weld ID figure reference, weld configuration (pipe-to-tee, head-to-shell, etc.), and examination method (UT, UT/PT, or UT/MT).

Column 3 - Exam. Type

Lists the Methods of Examinations used for each area by specific angles for UT (0, 45, 60, 90) and surface technique (MT or PT) if required.

Column 4 - % Coverage

The extent of coverage for each exam type is expressed in percentages based on the examination volume/area required in Section XI. Depending on method, the percentage coverage may be represented in more than one way.

Surface methods are the simplest and are expressed as a percentage of the required surface area receiving no coverage and the remaining balance from 100% as the total coverage.

Ultrasonic coverage is first expressed for each exam type as a percentage of the volume receiving no coverage, angle beam coverage in 1 direction only, and angle beam coverage in 2 directions. These percentages are then used to compute the effective coverage for that exam type. In the case of 0 degree, the effective coverage is equal to the balance of 100% minus the percentage receiving no coverage. The effective coverage for angle beam is calculated from the following formula:

$$c = \frac{a + 2*b}{2} \quad (\text{effective coverage formula, angle beam})$$

where a = 1 direction only percentage  
 b = 2 direction percentage

examples:

(1)	none	1 dir	2 dir
	0%	0%	100%

$$c = \frac{0 + 2*100}{2} = 100\% \text{ effective coverage}$$

(2)	none	1 dir	2 dir
	0%	100%	0%

$$c = \frac{100 + 2*0}{2} = 50\% \text{ effective coverage}$$

(3)	none	1 dir	2 dir
	50%	50%	0%

$$c = \frac{50 + 2*0}{2} = 25\% \text{ effective coverage}$$

The total UT coverage is then expressed as the average of the effective coverage percentages for each UT exam type. Each UT exam type is considered as equal weight in the calculation of the average.

This method for reporting UT coverage as a single percentage for all UT exam types was the preferred method by HL&P for identifying UT examination area limitations.

Column 5 - Limitation

A description of the type of limitation and primary reason for why the coverage was limited is provided in this column.

Column 6 - Fabrication NDE

This column describes the fabrication/construction NDE that was performed to satisfy the ASME Section III requirements for that component.

Class 1 Components

SECTION XI CODE COVERAGE LIMITATIONS  
 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 SYSTEM: PRESSURIZER (CLASS 1)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	WELD ID FIGURE	WELD CONFIGURATION	EXAM TYPE	% COVERAGE				LIMITATION	FABRICATION NDE
						NONE	DIR	DIR	EFF. COV. TOTAL		
1	PRZ-2	C1	A-PRZ-1	HEAD-TO-SHELL	0	11	-	-	89	LIMITED UT FROM BOTH SIDES DUE TO PROXIMITY OF WELDED PLATES. LIMITED UT FROM THE SHELL SIDE DUE TO PROXIMITY OF PERMANENT PIPE SUPPORTS AND 3/4" INSTRUMENTATION LINES.	RT/PT
B-B					45/60	3	18	79	88		
B2.11					45T	8	7	85	89		
VOL					60T	6	10	84	89		
				UT					89		
1	PRZ-2	C4	A-PRZ-1	SHELL-TO-SHELL	0	0	-	-	100	LIMITED UT45/UT60 FROM THE SHELL C SIDE DUE TO THE PROXIMITY OF TRUNNIONS. NO EXAMINATION REQUIRED BY INSERVICE PROGRAM.	RT/PT
B-B					45/60	0	3	97	99		
--					45T	0	0	100	100		
VOL					60T	0	0	100	100		
				UT					100		
1	PRZ-2	L1	A-PRZ-1	LONGITUDINAL WELD	0	16	-	-	84	LIMITED UT ON BOTH SIDES DUE TO PROXIMITY OF PERMANENT INSULATION SUPPORT RING. NO LIMITATION FOR INSERVICE EXAMINATION SINCE SUPPORT RING IS OUTSIDE THE 1 FT EXAM AREA REQUIRED BY INSERVICE PROGRAM.	RT/PT
B-B					45/60	16	0	84	84		
B2.12					45T	8	14	78	85		
VOL					60T	5	21	74	85		
				UT					84		

SECTION XI CODE COVERAGE LIMITATIONS  
 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 SYSTEM: STEAM GENERATOR (CLASS 1 - PRIMARY SIDE)

CLASS	LINE NO./SUBASSEMBLY - WELD IDENTIFICATION	EXAM	% COVERAGE				EFF.	TOTAL	LIMITATION	FABRICATION NDE
			NONE	DIR	DIR	COV.				
CATEGORY	WELD ID FIGURE	TYPE	1	2	EFF.	COV.	TOTAL	LIMITATION	FABRICATION NDE	
ITEM NO.	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	COV.	TOTAL	LIMITATION	FABRICATION NDE	
EX. RQMT	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	COV.	TOTAL	LIMITATION	FABRICATION NDE	
1	SG-2A	0	29	-	-	71	71	NO UT FROM THE SUPPORT RING SIDE DUE TO SUPPORT RING CONFIGURATION.	RT/MT	
B-B	SR1	45/60	4	96	0	48	48			
B2.31	FIGURE NO. A-SG-1	45T	29	0	71	71	71			
VOL	60T	29	0	71	71	71	71			
	HEAD-TO-SUPPORT RING									
	UT						65			
1	SG-2A	0	29	-	-	71	71	LIMITED UT45/UT60 FROM THE TUBE PLATE SIDE DUE TO PROXIMITY OF WELDED PLATES. NO UT FROM THE SUPPORT RING SIDE DUE TO SUPPORT RING CONFIGURATION.	RT/MT	
B-B	SR2	45/60	4	96	0	48	48			
B2.40	FIGURE NO. A-SG-1	45T	29	0	71	71	71			
VOL	60T	29	0	71	71	71	71			
	SUPPT RING-TO-TUBE PLT									
	UT						65			
1	SG-2B	0	20	-	-	80	80	LIMITED UT FROM THE SUPPORT RING SIDE DUE TO SUPPORT RING CONFIGURATION.	RT/MT	
B-B	SR1	45/60	2	98	0	49	49			
B2.31	FIGURE NO. A-SG-2	45T	20	0	80	80	80			
VOL	60T	20	0	80	80	80	80			
	HEAD-TO-SUPPORT RING									
	UT						72			
1	SG-2B	0	28	-	-	72	72	LIMITED UT45/UT60 FROM THE TUBE PLATE SIDE DUE TO PROXIMITY OF WELDED PLATES. NO UT FROM THE SUPPORT RING SIDE DUE TO SUPPORT RING CONFIGURATION.	RT/MT	
B-B	SR2	45/60	4	96	0	48	48			
B2.40	FIGURE NO. A-SG-2	45T	28	0	72	72	72			
VOL	60T	28	0	72	72	72	72			
	SUPPT RING-TO-TUBE PLT									
	UT						66			

SECTION XI CODE COVERAGE LIMITATIONS  
 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 SYSTEM: STEAM GENERATOR (CLASS 1 - PRIMARY SIDE)

CLASS	LINE NO./SUBASSEMBLY WELD IDENTIFICATION	EXAM	% COVERAGE				EFF.	LIMITATION	FABRICATION NDE
			TYPE	NONE	DIR	DIR			
1	SG-2C	0	25	-	-	75	LIMITED UT FROM THE SUPPORT	RT/MT	
B-B	SR1	45/60	3	97	0	49	RING SIDE DUE TO SUPPORT RING		
B2.31	FIGURE NO. A-SG-1	45T	25	0	75	75	CONFIGURATION.		
VOL		60T	25	0	75	75			
	HEAD-TO-SUPPORT RING								
	UT					68			
1	SG-2C	0	29	-	-	71	LIMITED UT45/UT60 FROM THE TUBE	RT/MT	
B-B	SR2	45/60	4	96	0	48	PLATE SIDE DUE TO PROXIMITY OF		
B2.40	FIGURE NO. A-SG-1	45T	29	0	71	71	WELDED PLATES. NO UT FROM THE		
VOL		60T	29	0	71	71	SUPPORT RING SIDE DUE TO SUPPORT		
	SUPPT RING-TO-TUBE PLT						RING CONFIGURATION.		
	UT					65			
1	SG-2D	0	32	-	-	68	NO UT FROM THE SUPPORT RING SIDE DUE	RT/MT	
B-B	SR1	45/60	5	95	0	48	TO SUPPORT RING CONFIGURATION.		
B2.31	FIGURE NO. A-SG-2	45T	32	0	68	68			
VOL		60T	32	0	68	68			
	HEAD-TO-SUPPORT RING								
	UT					63			
1	SG-2D	0	30	-	-	70	LIMITED UT45/UT60 FROM THE TUBE	RT/MT	
B-B	SR2	45/60	4	96	0	48	PLATE SIDE DUE TO PROXIMITY OF		
B2.40	FIGURE NO. A-SG-2	45T	30	0	70	70	WELDED PLATES. NO UT FROM THE		
VOL		60T	30	0	70	70	SUPPORT RING SIDE DUE TO SUPPORT		
	SUPPT RING-TO-TUBE PLT						RING CONFIGURATION.		
	UT					65			

SECTION XI CODE COVERAGE LIMITATIONS  
 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 SYSTEM: PRESSURIZER (CLASS 1)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				TOTAL	LIMITATION	FABRICATION NDE
				NONE	DIR	DIR	EFF.			
ITEM NO.	WELD CONFIGURATION	EXAM	TYPE	NONE	DIR	DIR	COV.			
1	PRZ-2	0	30	-	-	-	70		NO UT FROM THE NOZZLE SIDE DUE TO	RT/PT
B-D	N1	45/60	4	96	0	0	48		NOZZLE CONFIGURATION.	
83.110	FIGURE NO. A-PRZ-1	45T	30	0	70	70	70			
VOL		60T	30	0	70	70	70			
	SHELL-TO-NOZZLE									
	UT							65		
1	PRZ-2	0	30	-	-	-	70		NO UT FROM THE NOZZLE SIDE DUE TO	RT/PT
B-D	N2	45/60	4	96	0	0	48		NOZZLE CONFIGURATION.	
83.110	FIGURE NO. A-PRZ-1	45T	30	0	70	70	70			
VOL		60T	30	0	70	70	70			
	NOZZLE-TO-SHELL									
	UT							55		
1	PRZ-2	0	31	-	-	-	69		NO UT FROM THE NOZZLE SIDE DUE TO	RT/PT
B-D	N3	45/60	4	96	0	0	48		NOZZLE CONFIGURATION.	
83.110	FIGURE NO. A-PRZ-1	45T	31	0	69	69	69			
VOL		60T	31	0	69	69	69			
	SHELL-TO-NOZZLE									
	UT							64		
1	PRZ-2	0	30	-	-	-	70		NO UT FROM THE NOZZLE SIDE DUE TO	RT/PT
B-D	N4A	45/60	4	96	0	0	48		NOZZLE CONFIGURATION.	
83.110	FIGURE NO. A-PRZ-1	45T	30	0	70	70	70			
VOL		60T	30	0	70	70	70			
	SHELL-TO-NOZZLE									
	UT							65		
1	PRZ-2	0	31	-	-	-	69		NO UT FROM THE NOZZLE SIDE DUE TO	RT/PT
B-D	N4B	45/60	4	96	0	0	48		NOZZLE CONFIGURATION.	
83.110	FIGURE NO. A-PRZ-1	45T	31	0	69	69	69			
VOL		60T	31	0	69	69	69			
	SHELL-TO-NOZZLE									
	UT							64		
1	PRZ-2	0	34	-	-	-	66		NO UT FROM THE NOZZLE SIDE DUE TO	RT/PT
B-D	N4C	45/60	6	94	0	0	47		NOZZLE CONFIGURATION. LIMITED UT	
83.110	FIGURE NO. A-PRZ-1	45T	32	4	64	66	66		FROM THE SHELL SIDE DUE TO PROXIMITY	
VOL		60T	32	4	64	66	66		OF 2" ELBOW.	
	SHELL-TO-NOZZLE									
	UT							61		



SECTION XI CODE COVERAGE LIMITATIONS  
 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 SYSTEM: STEAM GENERATOR (CLASS 1 - PRIMARY SIDE)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				TOTAL	LIMITATION	FABRICATION NDE
				NONE	DIR	DIR	EFF.			
ITEM NO.	WELD ID FIGURE	WELD CONFIGURATION	TYPE							
1	SG-2A		0	36	-	-	64		NO UT FROM THE NOZZLE SIDE DUE TO	RT/MT
B-D	IN		45/60	8	92	0	46		NOZZLE CONFIGURATION.	
83.130	FIGURE NO. A-SG-1		45T	36	0	64	64			
VOL			60T	36	0	64	64			
	NOZZLE-TO-HEAD									
	UT							60		
1	SG-2A		0	30	-	-	70		NO UT FROM THE NOZZLE SIDE DUE TO	RT/MT
B-D	ON		45/60	8	92	0	46		NOZZLE CONFIGURATION.	
83.130	FIGURE NO. A-SG-1		45T	30	0	70	70			
VOL			60T	30	0	70	70			
	HEAD-TO-NOZZLE									
	UT							64		
1	SG-2B		0	32	-	-	68		NO UT FROM THE NOZZLE SIDE DUE TO	RT/MT
B-D	IN		45/60	7	93	0	47		NOZZLE CONFIGURATION.	
83.130	FIGURE NO. A-SG-2		45T	32	0	68	68			
VOL			60T	32	0	68	68			
	NOZZLE-TO-HEAD									
	UT							63		
1	SG-2B		0	30	-	-	70		NO UT FROM THE NOZZLE SIDE DUE TO	RT/MT
B-D	ON		45/60	7	93	0	47		NOZZLE CONFIGURATION.	
83.130	FIGURE NO. A-SG-2		45T	30	0	70	70			
VOL			60T	30	0	70	70			
	HEAD-TO-NOZZLE									
	UT							64		

SECTION XI CODE COVERAGE LIMITATIONS  
 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 SYSTEM: STEAM GENERATOR (CLASS 1 - PRIMARY SIDE)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE						LIMITATION	FABRICATION
			EXAM	1		2		EFF.		
ITEM NO.	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	COV.	TOTAL	NDE	
1	SG-2C		0	30	-	-	70		NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION.	RT/MT
B-D	IN		45/60	7	93	0	47			
B3.130	FIGURE NO. A-SG-1		45T	30	0	70	70			
VOL	NOZZLE-TO-HEAD		60T	30	0	70	70			
	UT							64		
1	SG-2C		0	30	-	-	70		NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION.	RT/MT
B-D	ON		45/60	7	93	0	47			
B3.130	FIGURE NO. A-SG-1		45T	30	0	70	70			
VOL	HEAD-TO-NOZZLE		60T	30	0	70	70			
	UT							64		
1	SG-2D		0	31	-	-	69		NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION.	RT/MT
B-D	IN		45/60	7	93	0	47			
B3.130	FIGURE NO. A-SG-2		45T	31	0	69	69			
VOL	NOZZLE-TO-HEAD		50T	31	0	69	69			
	UT							63		
1	SG-2D		0	30	-	-	70		NO UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION.	RT/MT
B-D	ON		45/60	8	92	0	46			
B3.130	FIGURE NO. A-SG-2		45T	30	0	70	70			
VOL	HEAD-TO-NOZZLE		60T	30	0	70	70			
	UT							64		

SECTION XI CODE COVERAGE LIMITATIONS  
 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 SYSTEM: PRESSURIZER (CLASS 1)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE					LIMITATION	FABRICATION
				TYPE	NONE	DIR	DIR	EFF.		
CATEGORY	WELD ID FIGURE									
ITEM NO.	WELD CONFIGURATION									
EX. RQMT	EXAMINATION METHOD									
1	PRZ-2		45	7	73	20	57		LIMITED UT45 FROM THE NOZZLE SIDE	RT/PT
B-F	N1-SE		45T	0	0	100	100		DUE TO NOZZLE CONFIGURATION.	
B5.40	FIGURE NO. A-PRZ-1								LIMITED UT45 FROM THE SAFE END SIDE	
VOL/SURF	NOZZLE-TO-SAFE END							78	DUE TO PROXIMITY OF WELDED LUGS.	
	UT/PT	PT	0	-	-	-	-	100		
1	PRZ-2		45	4	57	39	68		LIMITED UT45 FROM THE SAFE END SIDE	RT/PT
B-F	N2-SE		45T	0	0	100	100		DUE TO SAFE END CONFIGURATION.	
B5.40	FIGURE NO. A-PRZ-1								LIMITED UT45 FROM THE SAFE END SIDE	
VOL/SURF	SAFE END-TO-NOZZLE							84	DUE TO SAFE END CONFIGURATION.	
	UT/PT	PT	0	-	-	-	-	100		
1	PRZ-2		45	6	50	44	69		LIMITED UT45 FROM THE SAFE END SIDE	RT/PT
B-F	N3-SE		45T	0	0	100	100		DUE TO SAFE END CONFIGURATION.	
B5.40	FIGURE NO. A-PRZ-1								LIMITED UT45 FROM THE SAFE END SIDE	
VOL/SURF	NOZZLE-TO-SAFE END							85	DUE TO SAFE END CONFIGURATION.	
	UT/PT	PT	0	-	-	-	-	100		
1	PRZ-2		45	11	49	40	65		LIMITED UT45 FROM THE SAFE END SIDE	RT/PT
B-F	N4A-SE		45T	0	0	100	100		DUE TO SAFE END CONFIGURATION.	
B5.40	FIGURE NO. A-PRZ-1								LIMITED UT45 FROM THE SAFE END SIDE	
VOL/SURF	NOZZLE-TO-SAFE END							82	DUE TO SAFE END CONFIGURATION.	
	UT/PT	PT	0	-	-	-	-	100		
1	PRZ-2		45	12	44	44	66		LIMITED UT45 FROM THE SAFE END SIDE	RT/PT
B-F	N4B-SE		45T	0	0	100	100		DUE TO SAFE END CONFIGURATION.	
B5.40	FIGURE NO. A-PRZ-1								LIMITED UT45 FROM THE SAFE END SIDE	
VOL/SURF	NOZZLE-TO-SAFE END							83	DUE TO SAFE END CONFIGURATION.	
	UT/PT	PT	0	-	-	-	-	100		
1	PRZ-2		45	13	49	38	63		LIMITED UT45 FROM THE SAFE END SIDE	RT/PT
B-F	N4C-SE		45T	0	0	100	100		DUE TO SAFE END CONFIGURATION.	
B5.40	FIGURE NO. A-PRZ-1								LIMITED UT45 FROM THE SAFE END SIDE	
VOL/SURF	NOZZLE-TO-SAFE END							81	DUE TO SAFE END CONFIGURATION.	
	UT/PT	PT	0	-	-	-	-	100		

ASME CATEGORY B-F

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION NDE	
			EXAM	1	2	EFF.	TOTAL			
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	COV.	TOTAL		
ITEM NO.	EXAMINATION METHOD									
1	31-RC-2102	45/60	2	96	0	49			LIMITED UT45 ON THE WELD AND NO	RT/PT
B-F	1	45T	10	0	90	90			UT45T ON THE ELBOW SIDE DUE TO WELD	
B5.130	FIGURE NO. A-RC-1								CONFIGURATION AND SIZE OF SEARCH	
VOL/SURF	NOZZLE-TO-ELBOW							70	UNIT.	
	UT/PT	PT	0	-	-	-		100		
1	31-RC-2202	45/60	0	100	0	50			NO UT45T ON THE ELBOW SIDE DUE TO	RT/PT
B-F	1	45T	10	0	90	90			WELD CONFIGURATION AND SIZE OF	
B5.130	FIGURE NO. A-RC-2								SEARCH UNIT.	
VOL/SURF	NOZZLE-TO-ELBOW							70		
	UT/PT	PT	0	-	-	-		100		
1	31-RC-2302	45/60	1	99	0	50			LIMITED UT45 ON THE WELD AND NO	RT/PT
B-F	1	45T	9	0	91	91			UT45T ON THE ELBOW SIDE DUE TO WELD	
B5.130	FIGURE NO. A-RC-3								CONFIGURATION AND SIZE OF SEARCH	
VOL/SURF	NOZZLE-TO-ELBOW							70	UNIT.	
	UT/PT	PT	0	-	-	-		100		
1	31-RC-2402	45	2	98	0	49			LIMITED UT45 ON THE WELD DUE TO WELD	RT/PT
B-F	1	45T	0	0	100	100			CONFIGURATION AND SIZE OF SEARCH	
B5.130	FIGURE NO. A-RC-4								UNIT.	
VOL/SURF	NOZZLE-TO-ELBOW							75		
	UT/PT	PT	0	-	-	-		100		

ASME CATEGORY B-F

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY WELD IDENTIFICATION	EXAM	% COVERAGE				EFF.	LIMITATION	FABRICATION NDE
			TYPE	NONE	DIR	DIR			
CATEGORY	WELD ID FIGURE								
ITEM NO.	WELD CONFIGURATION								
EX. QMNT	EXAMINATION METHOD								
1	29-RC-2101	45/60	0	100	0	50	NO UT45T ON THE ELBOW SIDE DUE TO	RT/PT	
B-F	5	45T	10	0	90	90	WELD CONFIGURATION AND SIZE OF		
85.130	FIGURE NO. A-RC-1						SEARCH UNIT.		
VOL/SURF	ELBOW-TO-NOZZLE						70		
	UT/PT	PT	0	-	-	-	100		
1	29-RC-2201	45/60	1	99	0	50	LIMITED UT45 ON THE WELD AND NO	RT/PT	
B-F	5	45T	9	0	91	91	UT45T ON THE ELBOW SIDE DUE TO WELD		
85.130	FIGURE NO. A-RC-2						CONFIGURATION AND SIZE OF SEARCH		
VOL/SURF	ELBOW-TO-NOZZLE						70 UNIT.		
	UT/PT	PT	0	-	-	-	100		
1	29-RC-2301		0	100	0	50	NO UT45T ON THE ELBOW SIDE DUE TO	RT/PT	
B-F	5		11	0	89	89	WELD CONFIGURATION AND SIZE OF		
85.130	FIGURE NO. A-RC-3						SEARCH UNIT.		
VOL/SURF	ELBOW-TO-NOZZLE						70		
	UT/PT	PT	0	-	-	-	100		
1	29-RC-2401	45/60	1	99	0	50	LIMITED UT45 ON THE WELD AND NO	RT/PT	
B-F	4	45T	8	0	92	92	UT45T ON THE ELBOW SIDE DUE TO WELD		
85.130	FIGURE NO. A-RC-4						CONFIGURATION AND SIZE OF SEARCH		
VOL/SURF	ELBOW-TO-NOZZLE						71 UNIT.		
	UT/PT	PT	0	-	-	-	100		

ASME CATEGORY B-H

SECTION XI CODE COVERAGE LIMITATIONS  
 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 SYSTEM: PRESSURIZER (CLASS 1)

CLASS	- LINE NO./SUBASSEMBLY	EXAM	% COVERAGE				LIMITATION	FABRICATION
			1	2	EFF.	NOE		
EX. REQMT	- WELD IDENTIFICATION	TYPE	NONE	DIR	DIR	COV.	TOTAL	
1	PRZ-2	MT	10	-	-		90	NO MT ON TOP OF THE BRACKETS DUE TO
B-H	1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B							PROXIMITY OF PERMANENT SUPPORT
BB.20	FIGURE NO. A-PRZ-1							FRAME,
SURF	SUPPORT BRACKETS							(8 SUPPORT BRACKETS)
	MT							

ASME CATEGORY B-J

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION NDE	
			EXAM	1	2	EFF.	COV.			TOTAL
CATEGORY	WELD ID FIGURE									
ITEM NO.	WELD CONFIGURATION		TYPE	NONE	DIR	DIR	COV.	TOTAL		
EX. RQMT	EXAMINATION METHOD		TYPE	NONE	DIR	DIR	COV.	TOTAL		
1	31-RC-2102		45	0	6	94	97		LIMITED UT45 ON THE ELBOW SIDE AND	RT/PT
B-J	2		45T	88	0	12	12		NO UT45T ON THE WELD AND PIPE SIDE	
B9.11	FIGURE NO. A-RC-1								DUE TO WELD CONFIGURATION AND SIZE	
VOL/SURF	ELBOW-TO-PIPE							55	OF SEARCH UNIT.	
	UT/PT		PT	0	-	-	-	100		
1	31-RC-2102		45	0	0	100	100		LIMITED UT45T ON THE PIPE SIDE DUE	RT/PT
B-J	3		45T	7	0	93	93		WELD CONFIGURATION AND SIZE OF	
B9.11	FIGURE NO. A-RC-1								SEARCH UNIT.	
VOL/SURF	PIPE-TO-ELBOW							97		
	UT/PT		PT	0	-	-	-	100		
1	31-RC-2102		45	0	0	100	100		LIMITED UT45T ON THE WELD AND PIPE	RT/PT
B-J	4		45T	67	0	33	33		SIDE DUE TO WELD CONFIGURATION AND	
B9.11	FIGURE NO. A-RC-1								SIZE OF SEARCH UNIT.	
VOL/SURF	ELBOW-TO-PIPE							67		
	UT/PT		PT	0	-	-	-	100		
1	31-RC-2102		45	0	0	100	100		LIMITED UT45T ON THE WELD AND PIPE	RT/PT
B-J	8		45T	50	0	50	50		SIDE DUE TO WELD CONFIGURATION AND	
B9.11	FIGURE NO. A-RC-1								SIZE OF SEARCH UNIT.	
VOL/SURF	PIPE-TO-ELBOW							75		
	UT/PT		PT	0	-	-	-	100		
1	31-RC-2102		45	0	33	67	84		LIMITED UT45 ON BOTH SIDES AND NO	RT/PT
B-J	9		45T	100	0	0	0		UT45T DUE TO WELD CONFIGURATION AND	
B9.11	FIGURE NO. A-RC-1								SIZE OF SEARCH UNIT.	
VOL/SURF	ELBOW-TO-PUMP							42		
	UT/PT		PT	0	-	-	-	100		
1	31-RC-2202		45	0	0	100	100		NO UT45T ON THE WELD AND PIPE SIDE	RT/PT
B-J	2		45T	89	0	11	11		DUE TO WELD CONFIGURATION AND SIZE	
B9.11	FIGURE NO. A-RC-2								OF SEARCH UNIT.	
VOL/SURF	ELBOW-TO-PIPE							56		
	UT/PT		PT	0	-	-	-	100		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE						LIMITATION	FABRICATION
			EXAM	NONE	DIR	DIR	EFF.	COV.		
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	1	2	EFF.	COV.	TOTAL	NDE	
1	31-RC-2202	45	0	0	100	100			LIMITED UT45T ON THE WELD AND PIPE	RT/PT
B-J	3	45T	27	0	73	73			SIDE DUE TO WELD CONFIGURATION AND	
B9.11	FIGURE NO. A-RC-2								SIZE OF SEARCH UNIT.	
VOL/SURF	PIPE-TO-ELBOW							87		
	UT/PT	PT	0	-	-	-	-	100		
1	31-RC-2202	45	0	15	85	93			LIMITED UT45 ON THE ELBOW SIDE AND	RT/PT
B-J	4	45T	88	0	12	12			NO UT45T ON THE WELD AND PIPE SIDE	
B9.11	FIGURE NO. A-RC-2								DUE TO WELD CONFIGURATION AND SIZE	
VOL/SURF	ELBOW-TO-PIPE							52	OF SEARCH UNIT.	
	UT/PT	PT	0	-	-	-	-	100		
1	31-RC-2202	45	0	0	100	100			LIMITED UT45T ON THE WELD AND PIPE	RT/PT
B-J	8	45T	36	0	64	64			SIDE DUE TO WELD CONFIGURATION AND	
B9.11	FIGURE NO. A-RC-2								SIZE OF SEARCH UNIT.	
VOL/SURF	PIPE-TO-ELBOW							82		
	UT/PT	PT	0	-	-	-	-	100		
1	31-RC-2202	45	0	34	66	83			LIMITED UT45 ON BOTH SIDES AND NO	RT/PT
B-J	9	45T	100	0	0	0			UT45T DUE TO WELD CONFIGURATION AND	
B9.11	FIGURE NO. A-RC-2								SIZE OF SEARCH UNIT.	
VOL/SURF	ELBOW-TO-PUMP							42		
	UT/PT	PT	0	-	-	-	-	100		
1	31-RC-2302	45	0	83	17	59			LIMITED UT45 ON BOTH SIDES AND NO	RT/PT
B-J	2	45T	89	0	11	11			UT45T ON THE WELD AND PIPE SIDE DUE	
B9.11	FIGURE NO. A-RC-3								TO WELD CONFIGURATION AND SIZE OF	
VOL/SURF	ELBOW-TO-PIPE							35	SEARCH UNIT.	
	UT/PT	PT	0	-	-	-	-	100		
1	31-RC-2302	45	0	0	100	100			NO UT45T ON THE WELD AND PIPE SIDE	RT/PT
B-J	3	45T	90	0	10	10			DUE TO WELD CONFIGURATION AND SIZE	
B9.11	FIGURE NO. A-RC-3								OF SEARCH UNIT.	
VOL/SURF	PIPE-TO-ELBOW							55		
	UT/PT	PT	0	-	-	-	-	100		



ASME CATEGORY B-J

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION
				TYPE	NONE	DIR	DIR		
CATEGORY	WELD ID FIGURE								
ITEM NO.	WELD CONFIGURATION								
EX. QMNT	EXAMINATION METHOD								
1	31-RC-2302	45	0	0	100	100	100	LIMITED UT45T ON THE WELD AND PIPE	RT/PT
B-J	4	45T	53	0	47	47	47	SIDE DUE TO WELD CONFIGURATION AND	
B9.11	FIGURE NO. A-RC-3							SIZE OF SEARCH UNIT.	
VOL/SURF	ELBOW-TO-PIPE						74		
	UT/PT	PT	0	-	-	-	100		
1	31-RC-2302	35	15	0	85	85	85	NO UT FROM THE MAIN RUN SIDE DUE TO	RT/PT
B-J	7							COMPONENT CONFIGURATION.	
B9.31	FIGURE NO. A-RC-3								
VOL/SURF	4" BRANCH CONNECTION						85		
	UT/PT	PT	0	-	-	-	100		
1	31-RC-2302	45	0	0	100	100	100	LIMITED UT45T ON THE WELD AND PIPE	RT/PT
B-J	8	45T	42	0	58	58	58	SIDE DUE TO WELD CONFIGURATION AND	
B9.11	FIGURE NO. A-RC-3							SIZE OF SEARCH UNIT.	
VOL/SURF	PIPE-TO-ELBOW						79		
	UT/PT	PT	0	-	-	-	100		
1	31-RC-2302	45	0	29	71	86	86	LIMITED UT45 ON BOTH SIDES AND NO	RT/PT
B-J	9	45T	100	0	0	0	0	UT45T DUE TO WELD CONFIGURATION AND	
B9.11	FIGURE NO. A-RC-3							SIZE OF SEARCH UNIT.	
VOL/SURF	ELBOW-TO-PUMP						43		
	UT/PT	PT	0	-	-	-	100		
1	31-RC-2402	45	0	3	97	99	99	LIMITED UT45 ON THE ELBOW SIDE AND	RT/PT
B-J	2	45T	85	0	15	15	15	NO UT45T ON THE WELD AND PIPE SIDE	
B9.11	FIGURE NO. A-RC-4							DUE TO WELD CONFIGURATION AND SIZE	
VOL/SURF	ELBOW-TO-PIPE						57	OF SEARCH UNIT.	
	UT/PT	PT	0	-	-	-	100		
1	31-RC-2402	45	0	0	100	100	100	LIMITED UT45T ON THE WELD AND PIPE	RT/PT
B-J	3	45T	50	0	50	50	50	SIDE DUE TO WELD CONFIGURATION AND	
B9.11	FIGURE NO. A-RC-4							SIZE OF SEARCH UNIT.	
VOL/SURF	PIPE-TO-ELBOW						75		
	UT/PT	PT	0	-	-	-	100		

ASME CATEGORY B-J

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1 PIPING)

CLASS	CATEGORY	ITEM NO.	EX. RQMT	LINE NO./SUBASSEMBLY WELD IDENTIFICATION WELD ID FIGURE WELD CONFIGURATION EXAMINATION METHOD	EXAM	% COVERAGE					LIMITATION	FABRICATION NDE
						TYPE	NONE	DIR	DIR	COV.		
1	B-J	89.11		31-RC-2402 4 FIGURE NO. A-RC-4 ELBOW-TO-PIPE	45	0	15	85	93		LIMITED UT45 ON THE ELBOW SIDE AND NO UT45T ON THE WELD AND PIPE SIDE DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT
				UT/PT	PT	0	-	-	-	52		
										100		
1	B-J	89.11		31-RC-2402 8 FIGURE NO. A-RC-4 PIPE-TO-ELBOW	45	0	0	100	100		LIMITED UT45T ON THE PIPE SIDE DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT
				UT/PT	PT	0	-	-	-	96		
										100		
1	B-J	89.11		31-RC-2402 9 FIGURE NO. A-RC-4 ELBOW-TO-PUMP	45	0	26	74	87		LIMITED UT45 ON BOTH SIDES AND NO UT45T DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT
				UT/PT	PT	0	-	-	-	44		
										100		
1	B-J	89.31		29-RC-2101 2 FIGURE NO. A-RC-1 8" BRANCH CONNECTION	24/45	0	88	12	56		LIMITED UT DUE TO COMPONENT CONFIGURATION. APPROXIMATELY 12% FROM PIPE SIDE AND 76% FROM BC SIDE IN ONE DIRECTION. APPROXIMATELY 12% FROM BOTH SIDES IN TWO DIRECTIONS.	RT/PT
				UT/PT	PT	0	-	-	-	56		
										100		
1	B-J	89.31		29-RC-2101 3 FIGURE NO. A-RC-1 12" BRANCH CONNECTION	24/45	10	90	0	45		LIMITED UT DUE TO COMPONENT CONFIGURATION. APPROXIMATELY 23% FROM PIPE SIDE AND 67% FROM BC SIDE IN ONE DIRECTION.	RT/PT
				UT/PT	PT	0	-	-	-	45		
										100		
1	B-J	89.11		29-RC-2101 4 FIGURE NO. A-RC-1 PIPE-TO-ELBOW	45	0	0	100	100		LIMITED UT45T ON THE WELD AND PIPE SIDE DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT
				UT/PT	PT	0	-	-	-	79		
										100		

ASME CATEGORY B-J

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION
				NOE	DIR	DIR	COV.		
ITEM NO.	WELD ID FIGURE	WELD CONFIGURATION	TYPE	1	2	EFF.	TOTAL		NDE
EX. QMNT	EXAMINATION METHOD	EXAMINATION METHOD	TYPE	NOE	DIR	DIR	COV.	TOTAL	
1	29-RC-2201	24/45	0	88	12	56		LIMITED UT DUE TO COMPONENT CONFIGURATION.	RT/PT
B-J	2								
89.31	FIGURE NO. A-RC-2						56	APPROXIMATELY 12% FROM PIPE SIDE AND 76% FROM BC SIDE IN ONE DIRECTION.	
VOL/SURF	8" BRANCH CONNECTION							APPROXIMATELY 12% FROM BOTH SIDES IN TWO DIRECTIONS.	
	UT/PT	PT	0	-	-	-	100		
1	29-RC-2201	24/45	10	90	0	45		LIMITED UT DUE TO COMPONENT CONFIGURATION.	RT/PT
B-J	3								
89.31	FIGURE NO. A-RC-2						45	APPROXIMATELY 23% FROM PIPE SIDE AND 67% FROM BC SIDE IN ONE DIRECTION.	
VOL/SURF	12" BRANCH CONNECTION								
	UT/PT	PT	0	-	-	-	100		
1	29-RC-2201	45	0	0	100	100		LIMITED UT45T ON THE WELD AND PIPE SIDE DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT
B-J	4	45T	42	0	58	58			
89.11	FIGURE NO. A-RC-2						79		
VOL/SURF	PIPE-TO-ELBOW								
	UT/PT	PT	0	-	-	-	100		
1	29-RC-2301	24/45	0	88	12	56		LIMITED UT DUE TO COMPONENT CONFIGURATION.	RT/PT
B-J	2								
89.31	FIGURE NO. A-RC-3						56	APPROXIMATELY 12% FROM PIPE SIDE AND 76% FROM BC SIDE IN ONE DIRECTION.	
VOL/SURF	8" BRANCH CONNECTION							APPROXIMATELY 12% FROM BOTH SIDES IN TWO DIRECTIONS.	
	UT/PT	PT	0	-	-	-	100		
1	29-RC-2301	24/45	10	90	0	45		LIMITED UT DUE TO COMPONENT CONFIGURATION.	RT/PT
B-J	3								
89.31	FIGURE NO. A-RC-3						45	APPROXIMATELY 23% FROM PIPE SIDE AND 67% FROM BC SIDE IN ONE DIRECTION.	
VOL/SURF	12" BRANCH CONNECTION								
	UT/PT	PT	0	-	-	-	100		
1	29-RC-2301	45	0	0	100	100		NO UT45T ON THE WELD AND PIPE SIDE DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT
B-J	4	45T	93	0	7	7			
89.11	FIGURE NO. A-RC-3						54		
VOL/SURF	PIPE-TO-ELBOW								
	UT/PT	PT	0	-	-	-	100		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE			EFF.	LIMITATION	FABRICATION
				1	2	COV.			
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	TOTAL	NDE	
1	29-RC-2401	24/45	10	90	0	45	LIMITED UT DUE TO COMPONENT CONFIGURATION.	RT/PT	
B-J	2								
B9.31	FIGURE NO. A-RC-4						APPROXIMATELY 23% FROM PIPE SIDE AND 67% FROM BC SIDE IN ONE DIRECTION.		
VOL/SURF	16" BRANCH CONNECTION					45			
	UT/PT	PT	0	-	-	-	100		
1	27.5-RC-2103	45	0	16	84	92	LIMITED UT45 ON BOTH SIDES AND NO UT45T ON THE WELD AND PIPE SIDE DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT	
B-J	1	45T	90	0	10	10			
B9.11	FIGURE NO. A-RC-1								
VOL/SURF	PUMP-TO-PIPE					51			
	UT/PT	PT	0	-	-	-	100		
1	27.5-RC-2103	35	15	0	85	85	NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION.	PT	
B-J	3								
B9.31	FIGURE NO. A-RC-1								
VOL/SURF	4" BRANCH CONNECTION					85			
	UT/PT	PT	0	-	-	-	100		
1	27.5-RC-2103	35	15	0	85	85	NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION.	PT	
B-J	5								
B9.31	FIGURE NO. A-RC-1								
VOL/SURF	4" BRANCH CONNECTION					85			
	UT/PT	PT	0	-	-	-	100		
1	27.5-RC-2203	45	0	74	26	63	LIMITED UT45 ON BOTH SIDES AND NO UT45T ON THE WELD AND PIPE SIDE DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT	
B-J	1	45T	90	0	10	10			
B9.11	FIGURE NO. A-RC-2								
VOL/SURF	PUMP-TO-PIPE					37			
	UT/PT	PT	0	-	-	-	100		
1	27.5-RC-2303	45	0	42	58	79	LIMITED UT45 ON BOTH SIDES AND NO UT45T DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT	
B-J	1	45T	100	0	0	0			
B9.11	FIGURE NO. A-RC-3								
VOL/SURF	PUMP-TO-PIPE					40			
	UT/PT	PT	0	-	-	-	100		

ASME CATEGORY B-J

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION
			EXAM	1	2	EFF.	COV.		
ITEM NO.	WELD CONFIGURATION	EXAM	1	2	EFF.	COV.	TOTAL		
EX. RQMT	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	COV.	TOTAL	NDE	
1	27.5-RC-2303	35	15	0	85	85		NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION.	PT
B-J	4								
B9.31	FIGURE NO. A-RC-3								
VOL/SURF	4" BRANCH CONNECTION						85		
	UT/PT	PT	-	-	-	-	100		
1	27.5-RC-2403	45	0	26	74	87		LIMITED UT45T ON BOTH SIDES AND NO UT45T ON THE WELD DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT
B-J	1	45T	77	0	23	23			
B9.11	FIGURE NO. A-RC-4								
VOL/SURF	PUMP-TO-PIPE						55		
	UT/PT	PT	-	-	-	-	100		
1	27.5-RC-2403	35	15	0	85	85		NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION.	PT
B-J	3								
B9.31	FIGURE NO. A-RC-4								
VOL/SURF	4" BRANCH CONNECTION						85		
	UT/PT	PT	0	-	-	-	100		
1	27.5-RC-2403	35	15	0	85	85		NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION.	PT
B-J	4								
B9.31	FIGURE NO. A-RC-4								
VOL/SURF	4" BRANCH CONNECTION						85		
	UT/PT	PT	0	-	-	-	100		
1	27.5-RC-2403	45	0	0	100	100		LIMITED UT45T ON THE WELD AND PIPE SIDE DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.	RT/PT
B-J	5	45T	39	0	61	61			
B9.11	FIGURE NO. A-RC-4								
VOL/SURF	PIPE-TO-ELBOW						81		
	UT/PT	PT	0	-	-	-	100		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION CODE
				NONE	DIR	DIR	EFF. COV.		
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE						
ITEM NO.	WELD ID FIGURE	WELD CONFIGURATION	TYPE						
EX. QMNT	EXAMINATION METHOD	EXAMINATION METHOD	TYPE						
1	12-RC-2212		45/60	0	27	73	87	LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	8		45T	0	0	100	100	DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RC-10								
VOL/SURF								93	
	PIPE-TO-VALVE								
	UT/PT	PT		0	-	-	-	100	
1	12-RC-2221		45/60	0	24	76	88	LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1		45T	0	0	100	100	DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RC-9								
VOL/SURF								94	
	VALVE-TO-PIPE								
	UT/PT	PT		0	-	-	-	100	
1	12-RC-2312		45/60	0	24	76	88	LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	11		45T	0	0	100	100	DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RC-8								
VOL/SURF								94	
	PIPE-TO-VALVE								
	UT/PT	PT		0	-	-	-	100	
1	8-RC-2114		45/60	0	6	94	97	LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1		45T	0	0	100	100	DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RC-12								
VOL/SURF								99	
	VALVE-TO-PIPE								
	UT/PT	PT		0	-	-	-	100	
1	8-RC-2214		45/60	0	21	79	90	LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1		45T	0	0	100	100	DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RC-12								
VOL/SURF								95	
	VALVE-TO-PIPE								
	UT/PT	PT		0	-	-	-	100	

ASME CATEGORY B-J

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION NDE
				TYPE	NONE	DIR	DIR		
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION							
ITEM NO.	WELD CONFIGURATION	EXAM							
EX. RQMT	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	EFF. COV.	TOTAL		
1	8-RC-2324	45/60	0	18	82	91		LIMITED UT45/UT60 ON T. VALVE SIDE	RT/PT
B-J	1	45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RC-12								
VOL/SURF	VALVE-TO-PIPE						96		
	UT/PT	PT	0	-	-	-	100		
1	6-RC-2003	45/60	0	11	89	95		LIMITED UT45/UT60 ON THE SAFE END	RT/PT
B-J	14	45T	0	0	100	100		SIDE DUE TO WELD CONFIGURATION.	
B9.11	FIGURE NO. A-RC-13								
VOL/SURF	PIPE-TO-SAFE END						97		
	UT/PT	PT	0	-	-	-	100		
1	6-RC-2009	45/60	0	57	43	72		LIMITED UT45/UT60 ON BOTH SIDES DUE	RT/PT
B-J	1	45T	0	0	100	100		TO WELD CONFIGURATION.	
B9.11	FIGURE NO. A-RC-6								
VOL/SURF	SAFE END-TO-ELBOW						86		
	UT/PT	PT	0	-	-	-	100		
1	6-RC-2009	45/60	0	2	98	99		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	9	45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RC-6								
VOL/SURF	PIPE-TO-FLANGED VALVE						100		
	UT/PT	PT	0	-	-	-	100		
1	4-RC-2000	45	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO	RT/PT
B-J	1	45T	21	0	79	79		VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RC-14								
VOL/SURF	VALVE-TO-PIPE						90		
	UT/PT	PT	0	-	-	-	100		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION NDE	
				TYPE	NONE	DIR	DIR			EFF. COV.
ITEM NO.	WELD CONFIGURATION	EXAM	TYPE	NONE	DIR	DIR	EFF. COV.	TOTAL	LIMITATION	FABRICATION NDE
1	4-RC-2003	45	45T	0	0	100	100	100	NO UT45T ON THE VALVE SIDE DUE TO VALVE CONFIGURATION.	RT/PT
B-J	1	45T	45T	20	0	80	80	80		
B9.11	FIGURE NO. A-RC-13									
VOL/SURF	VALVE-TO-PIPE							90		
	UT/PT	PT	PT	0	-	-	-	100		
1	4-RC-2123	45	45T	0	0	100	100	100	NO UT45T ON THE VALVE SIDE DUE TO VALVE CONFIGURATION.	RT/PT
B-J	20	45T	45T	22	0	78	78	78		
B9.11	FIGURE NO. A-RC-14									
VOL/SURF	PIPE-TO-VALVE							89		
	UT/PT	PT	PT	0	-	-	-	100		
1	4-RC-2126	45	45T	0	0	100	100	100	NO UT45T ON THE VALVE SIDE DUE TO VALVE CONFIGURATION.	RT/PT
B-J	1	45T	45T	18	0	82	82	82		
B9.11	FIGURE NO. A-RC-11									
VOL/SURF	VALVE-TO-PIPE							91		
	UT/PT	PT	PT	0	-	-	-	100		
1	4-RC-2126	45	45T	0	0	100	100	100	LIMITED UT45T ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION.	RT/PT
B-J	2	45T	45T	4	1	95	96	96		
B9.11	FIGURE NO. A-RC-11									
VOL/SURF	PIPE-TO-ELBOW							98		
	UT/PT	PT	PT	0	-	-	-	100		
1	4-RC-2126	45	45T	0	0	100	100	100	LIMITED UT45T ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION.	RT/PT
B-J	3	45T	45T	4	1	95	96	96		
B9.11	FIGURE NO. A-RC-11									
VOL/SURF	ELBOW-TO-PIPE							98		
	UT/PT	PT	PT	0	-	-	-	100		



SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI COVE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION NDE
			EXAM	1	2	EFF.	COV.		
ITEM NO.	WELD CONFIGURATION	EXAM	1	2	EFF.	COV.	TOTAL		
EX. RQMT	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	COV.	TOTAL		
1	4-RC-2126	45	0	0	100	100		LIMITED UT45T ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION.	RT/PT
B-J	4	45T	4	1	95	96			
B9.11	FIGURE NO. A-RC-11								
VOL/SURF	PIPE-TO-ELBOW						98		
	UT/PT	PT	0	-	-	-	100		
1	4-RC-2126	45	0	0	100	100		LIMITED UT45T ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION.	RT/PT
B-J	5	45T	5	1	95	96			
B9.11	FIGURE NO. A-RC-11								
VOL/SURF	ELBOW-TO-PIPE						98		
	UT/PT	PT	0	-	-	-	100		
1	4-RC-2320	45	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO VALVE CONFIGURATION.	RT/PT
B-J	8	45T	20	0	80	80			
B9.11	FIGURE NO. A-RC-10								
VOL/SURF	PIPE-TO-VALVE						90		
	UT/PT	PT	0	-	-	-	100		
1	4-RC-2320	45	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO VALVE CONFIGURATION.	RT/PT
B-J	9	45T	20	0	80	80			
B9.11	FIGURE NO. A-RC-10								
VOL/SURF	VALVE-TO-PIPE						90		
	UT/PT	PT	0	-	-	-	100		
1	4-RC-2320	45	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO VALVE CONFIGURATION.	RT/PT
B-J	12	45T	20	0	80	80			
B9.11	FIGURE NO. A-RC-10								
VOL/SURF	PIPE-TO-VALVE						90		
	UT/PT	PT	0	-	-	-	100		

ASME CATEGORY B-1

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

ASME SECTION XI CODE COVERAGE LIMITATIONS

SYSTEM: REACTOR COOLANT (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE						LIMITATION	FABRICATION NDE
			EXAM	1	2	EFF.	COV.	TOTAL		
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	COV.	TOTAL		
1	4-RC-2323		45/60	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO	RT/PT
B-J	1		45T	18	0	82	82		VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RC-11									
VOL/SURF	VALVE-TO-PIPE							91		
	UT/PT		PT	0	-	-	-	100		
1	4-RC-2422		45	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO	RT/PT
B-J	24		45T	24	0	76	76		VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RC-13									
VOL/SURF	PIPE-TO-VALVE							88		
	UT/PT		PT		-	-	-	100		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: CHEMICAL AND VOLUME CONTROL (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE						LIMITATION	FABRICATION CODE
			EXAM	1	2	EFF.	COV.	TOTAL		
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	COV.	TOTAL		
1	4-CV-2001		45/60	0	22	78	89		LIMITED UT45/UT60 AND NO UT45T ON	RT/PT
B-J	1		45T	22	0	78	78		THE VALVE SIDE DUE TO VALVE CON-	
B9.11	FIGURE NO. A-CV-1								FIGURATION.	
VOL/SURF								84		
	VALVE-TO-PIPE									
	UT/PT		PT	0	-	-	-	100		
1	4-CV-2001		45/60	31	31	38	54		LIMITED UT45/UT60 AND NO UT45T ON	RT/PT
B-J	2		45T	19	0	81	81		THE VALVE SIDE DUE TO VALVE CON-	
B9.11	FIGURE NO. A-CV-1								FIGURATION.	
VOL/SURF								67		
	PIPE-TO-VALVE									
	UT/PT		PT	0	-	-	-	100		
1	4-CV-2120		45/60	8	25	67	80		LIMITED UT45/UT60 AND NO UT45T ON	RT/PT
B-J	1		45T	20	0	80	80		THE VALVE SIDE DUE TO VALVE CON-	
B9.11	FIGURE NO. A-CV-2								FIGURATION.	
VOL/SURF								80		
	VALVE-TO-PIPE									
	UT/PT		PT	0	-	-	-	100		
1	4-CV-2120		45/60	14	30	56	71		LIMITED UT45/UT60 AND NO UT45T ON	RT/PT
B-J	2		45T	20	0	80	80		THE VALVE SIDE DUE TO VALVE CON-	
B9.11	FIGURE NO. A-CV-2								FIGURATION.	
VOL/SURF								76		
	PIPE-TO-VALVE									
	UT/PT		PT	0	-	-	-	100		

ASME CATEGORY B-J

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: RESIDUAL HEAT REMOVAL (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION NDE	
			EXAM	1	2	EFF.	TOTAL			
EX. RQMT	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NCNE	DIR	DIR	COV.	TOTAL		
1	12-RH-2101		45/60	0	15	85	93		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1		45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-1									
VOL/SURF	VALVE-TO-PIPE							96		
	UT/PT	PT	0	-	-	-	-	100		
1	12-RH-2101		45/60	4	31	65	81		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1		45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-1									
VOL/SURF	PIPE							90		
	UT	1	0	-	-	-	-	100		
1	12-RH-2201		45/60	0	20	80	90		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	16		45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-2									
VOL/SURF	PIPE-TO-VALVE							95		
	UT/PT	PT	0	-	-	-	-	100		
1	12-RH-2301		45/60	0	18	82	91		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	11		45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-3									
VOL/SURF	PIPE-TO-VALVE							96		
	UT/PT	PT	0	-	-	-	-	100		
1	10-RH-2108		45/60	0	0	100	100		LIMITED UT45T ON THE REDUCING TEE	RT/PT
B-J	11		45T	7	3	90	92		SIDE DUE TO REDUCING TEE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-4									
VOL/SURF	PIPE-TO-REDUCING TEE							96		
	UT/PT	PT	0	-	-	-	-	100		

ASME CATEGORY B-J

SOUTH TEXAS PROJECT/ ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: RESIDUAL HEAT REMOVAL (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE						LIMITATION	FABRICATION NDE
			EXAM	1	2	EFF.	COV.	TOTAL		
ITEM NO.	WELD CONFIGURATION	EXAM	NONE	DIR	DIR	EFF.	COV.	TOTAL		
EX. RQMT	EXAMINATION METHOD	TYPE								
1	10-RH-2208	45	0	0	100	100			NO UT45T ON THE REDUCING TEE SIDE	RT/PT
B-J	2	45T	20	0	80	80			DUE TO REDUCING TEE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-2									
VOL/SURF	PIPE-TO-REDUCING TEE							90		
	UT/PT	PT	0	-	-	-	-	100		
1	10-RH-2208	45	0	0	100	100			NO UT45T ON THE REDUCING TEE SIDE	RT/PT
B-J	3	45T	15	0	85	85			DUE TO REDUCING TEE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-2									
VOL/SURF	REDUCING TEE-TO-PIPE							93		
	UT/PT	PT	0	-	-	-	-	100		
1	10-RH-2208	45/60	0	0	100	100			NO UT45T ON THE ELBOW SIDE DUE TO	RT/PT
B-J	5	45T	17	0	83	83			ELBOW CONFIGURATION.	
B9.11	FIGURE NO. A-RH-2									
VOL/SURF	ELBOW-TO-PIPE							92		
	UT/PT	PT	0	-	-	-	-	100		
1	10-RH-2308	45	0	0	100	100			NO UT45T ON THE REDUCING TEE SIDE	RT/PT
B-J	3	45T	18	0	82	82			DUE TO REDUCING TEE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-5									
VOL/SURF	REDUCING TEE-TO-PIPE							91		
	UT/PT	PT	0	-	-	-	-	100		
1	10-RH-2308	45/60	0	0	100	100			NO UT45T ON THE ELBOW SIDE DUE TO	RT/PT
B-J	5	45T	17	0	83	83			ELBOW CONFIGURATION.	
B9.11	FIGURE NO. A-RH-5									
VOL/SURF	ELBOW-TO-PIPE							92		
	UT/PT	PT	0	-	-	-	-	100		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE VERAGE LIMITATIONS  
 SYSTEM: RESIDUAL OF REMOVAL (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION
				TYPE	NONE	DIR	DIR		
ITEM NO.	WELD ID FIGURE	WELD CONFIGURATION		1	2	EFF.			
EX. RQMT	EXAMINATION METHOD		TYPE	NONE	DIR	DIR	COV.	TOTAL	NOE
1	B-RH-2108		45	0	34	66	83		RT/PT
B-J	1		45T	0	0	100	100	LIMITED UT45 ON THE VALVE SIDE DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-4							LIMITED UT45 ON THE PIPE SIDE DUE TO HANGER.	
VOL/SURF	VALVE-TO-PIPE							92	
	UT/PT		PT	0	-	-	-	100	
1	B-RH-2212		45/60	0	0	100	100		RT/PT
B-J	2		45T	16	0	84	84	NO UT45T ON THE TEE SIDE DUE TO TEE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-2								
VOL/SURF	PIPE-TO-TEE							92	
	UT/PT		PT	0	-	-	-	100	
1	B-RH-2308		45/60	0	23	77	89		RT/PT
B-J	1		45T	0	0	100	100	LIMITED UT45/UT60 ON THE VALVE SIDE DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-RH-5								
VOL/SURF	VALVE-TO-PIPE							94	
	UT/PT		PT	0	-	-	-	100	

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: SAFETY INJECTION (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION NDE	
			EXAM TYPE	NONE	DIR	DIR	EFF. COV.			TOTAL
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	EXAM TYPE	NONE	DIR	DIR	EFF. COV.	TOTAL	LIMITATION	FABRICATION NDE
1	12-SI-2125		45/60	0	53	47	74		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1		45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-1									
VOL/SURF								87		
	VALVE-TO-PIPE									
	UT/PT	PT	0	-	-	-	-	100		
1	12-SI-2125		45/60	3	27	70	84		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	4		45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-1									
VOL/SURF								92		
	PIPE-TO-VALVE									
	UT/PT	PT	0	-	-	-	-	100		
1	12-SI-2218		45/60	13	29	58	73		LIMITED UT45/UT60 AND NO UT45T ON	RT/PT
B-J	1		45T	14	0	86	86		THE VALVE SIDE DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-4									
VOL/SURF								79		
	VALVE-TO-PIPE									
	UT/PT	PT	0	-	-	-	-	100		
1	12-SI-2218		45/60	0	12	88	94		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	4		45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-2									
VOL/SURF								97		
	PIPE-TO-VALVE									
	UT/PT	PT	0	-	-	-	-	100		
1	8-SI-2208		45/60	0	18	82	91		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	4		45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-4									
VOL/SURF								96		
	PIPE-TO-VALVE									
	UT/PT	PT	0	-	-	-	-	100		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: SAFETY INJECTION (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION
			EXAM	1	2	EFF.	COV.		
EX. RQMT	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	COV.	TOTAL	NDE	
1	8-SI-2327	45/60	0	9	91	96		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	11	45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-5								
VOL/SURF	PIPE-TO-VALVE						98		
	UT/PT	PT	0	-	-	-	100		
1	6-SI-2108	45/60	0	34	66	83		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1	45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-3								
VOL/SURF	VALVE-TO-PIPE						92		
	UT/PT	PT	0	-	-	-	100		
1	6-SI-2111	45/60	6	0	94	94		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1	45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-3								
VOL/SURF	VALVE-TO-PIPE						97		
	UT/PT	PT	0	-	-	-	100		
1	6-SI-2208	45/60	11	43	46	68		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1	45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-4								
VOL/SURF	VALVE-TO-PIPE						84		
	UT/PT	PT	0	-	-	-	100		
1	6-SI-2208	45	0	0	100	100		NO UT45T ON THE WELD DUE TO WELD	RT/PT
B-J	4	45T	63	0	37	37		CONF. LOCATION.	
B9.11	FIGURE NO. A-SI-4								
VOL/SURF	PIPE-TO-REDUCER						69		
	UT/PT	PT	0	-	-	-	100		



ASME CATEGORY B-J

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: SAFETY INJECTION (CLASS 1 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION NDE
			EXAM	1	2	EFF.	COV.		
ITEM NO.	WELD CONFIGURATION	EXAM	1	2	EFF.	COV.	TOTAL		
EX. RQMT	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	COV.	TOTAL		
1	6-SI-2211	45/60	3	0	97	97		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1	45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-4								
VOL/SURF							99		
	VALVE-TO-PIPE								
	UT/PT	PT	0	-	-	-	100		
1	6-SI-2308	45/60	2	26	72	85		LIMITED UT45/UT60 AND NO UT45T ON	RT/PT
B-J	5	45T	17	0	83	83		THE REDUCING TEE SIDE DUE TO REDUC-	
C9.11	FIGURE NO. A-SI-5							ING TEE CONFIGURATION.	
VOL/SURF							84		
	PIPE-TO-REDUCING TEE								
	UT/PT	PT	0	-	-	-	100		
1	6-SI-2327	45/60	0	14	86	93		LIMITED UT45/UT60 ON THE VALVE SIDE	RT/PT
B-J	1	45T	0	0	100	100		DUE TO VALVE CONFIGURATION.	
B9.11	FIGURE NO. A-SI-5								
VOL/SURF							97		
	VALVE-TO-PIPE								
	UT/PT	PT	0	-	-	-	100		
1	6-SI-2327	45	0	0	100	100		LIMITED UT45T ON THE PIPE SIDE DUE	RT/PT
B-J	6	45T	4	0	96	96		TO PROXIMITY OF BRANCH CONNECTION.	
B9.11	FIGURE NO. A-SI-5								
VOL/SURF							98		
	ELBOW-TO-PIPE								
	UT/PT	PT	0	-	-	-	100		
1	6-SI-2327	45	33	0	67	67		LIMITED UT45 AND UT45T ON THE PIPE	RT/PT
B-J	7	45T	19	0	81	81		SIDE DUE TO PROXIMITY OF BRANCH	
B9.11	FIGURE NO. A-SI-5							CONNECTION.	
VOL/SURF							74	NO UT45T ON THE REDUCING TEE SIDE	
	PIPE-TO-REDUCING TEE							DUE TO REDUCING TEE CONFIGURATION.	
	UT/PT	PT	0	-	-	-	100		

Class 2 Components

ASME CATEGORY C-A

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: STEAM GENERATORS 2A, 2B, 2C, 2D (CLASS 2 - SECONDARY SIDE)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	WELD ID FIGURE	EXAM	% COVERAGE					LIMITATION	FABRICATION NDE
					TYPE	NONE	DIR	DIR	EFF.		
2	SG-2A	S1	FIGURE NO. B-SG-1	0	9	-	-	91		LIMITED UT ON BOTH SIDES OF THE WELD	RT/MT
C-A		S1		45/60	1	1	98	99		DUE TO PROXIMITY OF INSTRUMENTATION	
C1.30				45T	1	3	96	98		LINES AND INSPECTION HOLES.	
VOL				60T	3	11	86	92			
			TUBE PLT-TO-STUB BRRL								
			UT					95			
2	SG-2B	S1	FIGURE NO. B-SG-1	0	7	-	-	93		LIMITED UT ON BOTH SIDES OF THE WELD	RT/MT
C-A		S1		45/60	0	1	99	100		DUE TO PROXIMITY OF INSTRUMENTATION	
C1.30				45T	1	3	96	98		LINES AND INSPECTION HOLES.	
VOL				60T	3	9	88	93			
			TUBE PLT-TO-STUB BRRL								
			UT					96			
2	SG-2C	S1	FIGURE NO. B-SG-1	0	8	-	-	92		LIMITED UT ON BOTH SIDES OF THE WELD	RT/MT
C-A		S1		45/60	1	2	97	98		DUE TO PROXIMITY OF INSTRUMENTATION	
C1.30				45T	1	4	95	97		LINES AND INSPECTION HOLES.	
VOL				60T	3	10	87	92			
			TUBE PLT-TO-STUB BRRL								
			UT					95			
2	SG-2D	S1	FIGURE NO. B-SG-1	0	8	-	-	92		LIMITED UT ON BOTH SIDES OF THE WELD	RT/MT
C-A		S1		45/60	1	3	96	98		DUE TO PROXIMITY OF INSTRUMENTATION	
C1.30				45T	1	3	96	98		LINES AND INSPECTION HOLES.	
VOL				60T	4	9	87	92			
			TUBE PLT-TO-STUB BRRL								
			UT					95			

ASME CATEGORY C-A

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REGENERATIVE HEAT EXCHANGER 2A (CLASS 2)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION
				1	2	EFF.	COV.		
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	TOTAL		NDE
2	CSAHRG-2A	45/60	1	3	96	98		LIMITED UT45/UT60 FROM THE SHELL	RT
C-A	S2	45T	0	0	100	100		SIDE DUE TO PROXIMITY OF BRANCH	
C1.30	FIGURE NO. B-RGX-1							CONNECTION. NO UT45/UT60 FROM THE	
VOL	TUBE SHEET-TO-SHELL							TUBE SHEET SIDE DUE TO TUBE SHEET	
								CONFIGURATION.	
	UT						99		
2	CSAHRG-2A	45/60	1	3	96	98		LIMITED UT45/UT60 FROM THE SHELL	RT
C-A	S7	45T	0	0	100	100		SIDE DUE TO PROXIMITY OF BRANCH	
C1.30	FIGURE NO. B-RGX-1							CONNECTION. NO UT45/UT60 FROM THE	
VOL	SHELL-TO-TUBE SHEET							TUBE SHEET SIDE DUE TO TUBE SHEET	
								CONFIGURATION.	
	UT						99		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: EXCESS LETDOWN HEAT EXCHANGER 2A (CLASS 2)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION
			EXAM	1	2	EFF.	COV.		
EX. RQMT	WELD ID FIGURE	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	COV.	TOTAL	NDE
2	CSAKSL-2A	45/60	12	48	40	64	LIMITED UT45/UT60 FROM THE HEAD SIDE		RT
C-A	S1	45T	28	0	72	72	DUE TO HEAD CONFIGURATION.		
C1.10	FIGURE NO. B-ELDX-1						NO UT45/UT60 OR UT45T FROM THE		
VOL	(HEAD) SHELL-TO-FLANGE						FLANGE SIDE DUE TO PROXIMITY OF		
							FLANGE BOLTING.		
	UT					68			

ASME CATEGORY C-A

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REACTOR COOLANT FILTERS 2A, 2B (CLASS 2)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION		
				TYPE	NONE	DIR	DIR			EFF.	COV.
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	EFF.	COV.	TOTAL	NDE	
2	CSFLRC-2A	S1	45	56	0	44	44	44	44	LIMITED UT45 AND UT45T FROM BOTH SIDES DUE TO WELDED SUPPORT LEGS.	PT
C-A	S1		45T	44	5	51	54	54	54		
C1.10	FIGURE NO. B-RCF-1										
VOL	INLET-TO-SHELL										
	UT								49		
2	CSFLRC-2A	S2	45	10	8	82	86	86	86	LIMITED UT45 AND UT45T FROM BOTH SIDES DUE TO PROXIMITY OF IDENTIFICATION PLATES AND CLOSURE BRACKETS.	PT
C-A	S2		45T	4	6	90	93	93	93		
C1.20	FIGURE NO. B-RCF-1										
VOL	SHELL-TO-HEAD										
	UT								90		
2	CSFLRC-2B	S1	45	60	0	40	40	40	40	LIMITED UT45 AND UT45T FROM BOTH SIDES DUE TO WELDED SUPPORT LEGS.	PT
C-A	S1		45T	48	5	47	50	50	50		
C1.10	FIGURE NO. B-RCF-1										
VOL	INLET-TO-SHELL										
	UT								45		
2	CSFLRC-2B	S2	45	10	8	82	86	86	86	LIMITED UT45 AND UT45T FROM BOTH SIDES DUE TO PROXIMITY OF IDENTIFICATION PLATES AND CLOSURE BRACKETS.	PT
C-A	S2		45T	4	6	90	93	93	93		
C1.20	FIGURE NO. B-RCF-1										
VOL	SHELL-TO-HEAD										
	UT								90		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: SEAL WATER INJECTION FILTERS 2A, 2B (CLASS 2)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION
				1	2	EFF.	COV.		
CATEGORY	WELD ID FIGURE	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	TOTAL	NDE	
2	CSFLS1-2A	45/60	0	0	100	100	100	NO UT+5T ON THE HEAD SIDE DUE TO HEAD CONFIGURATION.	PT
C-A	S1	45T	33	0	67	67	67		
C1.20	FIGURE NO. B-SWF-1								
VOL	HEAD-TO-SHELL								
	UT						84		
2	CSFLS1-2B	45/60	0	0	100	100	100	NO UT+5T ON THE HEAD SIDE DUE TO HEAD CONFIGURATION.	PT
C-A	S1	45T	35	0	65	65	65		
C1.20	FIGURE NO. B-SWF-1								
VOL	HEAD-TO-SHELL								
	UT						83		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: PULSATION DAMPENER 2A (CLASS 2)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION
				1	2	EFF.	COV.		
CATEGORY	WELD ID FIGURE	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	TOTAL	NO2	
2	PUD-2A		45/60	1	3	96	98	LIMITED UT45/UT60 FROM BOTH SIDES	PT
C-A	S1		45T	0	0	100	100	DUE TO PROXIMITY OF SUPPORT	
C1.20	FIGURE NO. B-PUD-1							BRACKETS.	
VOL									
	SHELL-TO-SHELL								
	UT						99		



ASME CATEGORY C-B

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: REGENERATIVE HEAT EXCHANGER 2A (CLASS 2)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION
			EXAM	1	2	EFF.	COV.		
EX. RGMT	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	COV.	TOTAL	NDE	
2	CSAHRG-2A	45	3	1	96	97	LIMITED UT45 AND UT45T FROM THE	RT	
C-B	S1	45T	18	4	78	80	NOZZLE SIDE DUE TO PROXIMITY OF		
C2.21	FIGURE NO. B-RGX-1						BRANCH CONNECTION. NO UT45 OR UT45T		
VOL/SURF							88 FROM THE TUBE SHEET SIDE DUE TO TUBE		
	NOZZLE-TO-TUBE SHEET						SHEET CONFIGURATION.		
	UT/PT	PT	0	-	-	-	100		
2	CSAHRG-2A	45	0	1	99	100	LIMITED UT45 FROM THE NOZZLE SIDE	RT	
C-B	S8	45T	18	0	82	82	DUE TO PROXIMITY OF BRANCH		
C2.21	FIGURE NO. B-RGX-1						CONNECTION. NO UT45 OR UT45T FROM		
VOL/SURF							91 THE TUBE SHEET SIDE DUE TO TUBE		
	TUBE SHEET-TO-NOZZLE						SHEET CONFIGURATION.		
	UT/PT	PT	0	-	-	-	100		
2	CSAHRG-2A	45	0	2	98	99	LIMITED UT45 FROM THE SHELL SIDE DUE	RT	
C-B	S9	45T	0	0	100	100	TO SHELL CONFIGURATION.		
C2.21	FIGURE NO. B-RGX-1								
VOL/SURF							100		
	NOZZLE-TO-SHELL								
	UT/PT	PT	0	-	-	-	100		
2	CSAHRG-2A	45	1	4	95	97	LIMITED UT45 FROM THE SHELL SIDE DUE	RT	
C-B	S10	45T	30	0	70	70	TO SHELL CONFIGURATION. LIMITED		
C2.21	FIGURE NO. B-RGX-1						UT45T ON THE WELD DUE TO WELD		
VOL/SURF							84 CONFIGURATION.		
	SHELL-TO-NOZZLE								
	UT/PT	PT	0	-	-	-	100		

ASME CATEGORY C-B

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: RESIDUAL HEAT REMOVAL HEAT EXCHANGERS 2A, 2B, 2C (CLASS 2)

CLASS	CATEGORY	ITEM NO.	EX. RQMT	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	WELD ID FIGURE	WELD CONFIGURATION	EXAM TYPE	% COVERAGE					LIMITATION	FABRICATION NDE	
									NONE	DIR	DIR	EFF.	COV.			TOTAL
2	C-B	C2.21		RHAHRS-2A	NA	FIGURE NO. B-RHX-1	NOZZLE-TO-SHELL	45T	0	0	100	100	38	38	NO UT45T ON THE WELD DUE TO WELD CONFIGURATION.	RT
							UT/PT	PT	0	-	-	-	-	100		
2	C-B	C2.21		RHAHRS-2A	NB	FIGURE NO. B-RHX-1	SHELL-TO-NOZZLE	45T	0	0	100	100	38	38	NO UT45T ON THE WELD DUE TO WELD CONFIGURATION.	RT
							UT/PT	PT	0	-	-	-	-	100		
2	C-B	C2.21		RHAHRS-2B	NA	FIGURE NO. B-RHX-1	NOZZLE-TO-SHELL	45T	0	0	100	100	40	40	NO UT45T ON THE WELD DUE TO WELD CONFIGURATION.	RT
							UT/PT	PT	0	-	-	-	-	100		
2	C-B	C2.21		RHAHRS-2B	NB	FIGURE NO. B-RHX-1	SHELL-TO-NOZZLE	45T	0	0	100	100	40	40	NO UT45T ON THE WELD DUE TO WELD CONFIGURATION.	RT
							UT/PT	PT	0	-	-	-	-	100		
2	C-B	C2.21		RHAHRS-2C	NA	FIGURE NO. B-RHX-1	NOZZLE-TO-SHELL	45T	0	0	100	100	40	40	NO UT45T ON THE WELD DUE TO WELD CONFIGURATION.	RT
							UT/PT	PT	0	-	-	-	-	100		
2	C-B	C2.21		RHAHRS-2C	NB	FIGURE NO. B-RHX-1	SHELL-TO-NOZZLE	45T	0	0	100	100	40	40	NO UT45T ON THE WELD DUE TO WELD CONFIGURATION.	RT
							UT/PT	PT	0	-	-	-	-	100		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: FEEDWATER - PIPE LUGS (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE			EFF.	TOTAL	LIMITATION	FABRICATION NDE
				1	2	DIR				
CATEGORY	WELD ID FIGURE									
ITEM NO.	WELD CONFIGURATION		TYPE	NONE	DIR	DIR	COV.			
EX. RQMT	EXAMINATION METHOD									
2	18-FW-2029		45	1	35	64	82		LIMITED UT AND MT COVERAGE DUE TO	MT/PT
C-C	1PL1-1PLB								PIPE LUG CONFIGURATION.	
C3.20	FIGURE NO. B-FW-1									
SURF								82		
VOL *	PIPE LUGS									
	UT/MT		MT	49	-	-	-	51	* AUG PSI - BEZ	
2	18-FW-2029		45	6	14	80	87		LIMITED UT COVERAGE DUE TO PIPE LUG	PT
--	1PL9-1PL10								CONFIGURATION.	
--	FIGURE NO. B-FW-1									
VOL *	PIPE LUGS									
	UT							87	* AUG PSI - BEZ	
2	18-FW-2030		45	1	35	64	82		LIMITED UT AND MT COVERAGE DUE TO	MT/PT
C-C	1PL1-1PLB								PIPE LUG CONFIGURATION.	
C3.20	FIGURE NO. B-FW-3									
SURF								82		
VOL *	PIPE LUGS									
	UT/MT		MT	49	-	-	-	51	* AUG PSI - BEZ	
2	18-FW-2030		45	6	14	80	87		LIMITED UT COVERAGE DUE TO PIPE LUG	PT
--	1PL9-1PL10								CONFIGURATION.	
--	FIGURE NO. B-FW-3									
VOL *	PIPE LUGS									
	UT							87	* AUG PSI - BEZ	

ASME CATEGORY C-C

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: FEEDWATER - PIPE LUGS (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION NDE	
				NONE	DIR	DIR	EFF. COV.			TOTAL
CATEGORY	WELD TO FIGURE	WELD CONFIGURATION	TYPE	1	2	EFF.	COV.	TOTAL		
ITEM NO.	EXAMINATION METHOD	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	EFF. COV.	TOTAL		
2	18-FW-2031	45	1	35	64	82			LIMITED UT AND MT COVERAGE DUE TO PIPE LUG CONFIGURATION.	MT/PT
C-C	1PL1-1PL8									
CS.20	FIGURE NO. 8-FW-5									
SURF								82		
VOL *	PIPE LUGS									
	UT/MT	MT	49	-	-	-	-	51	* AUG PSI - BEZ	
2	18-FW-2031	45	6	14	80	87			LIMITED UT COVERAGE DUE TO PIPE LUG CONFIGURATION.	PT
--	1PL9-1PL10									
--	FIGURE NO. 8-FW-5									
VOL *	PIPE LUGS									
	UT							87	* AUG PSI - BEZ	
2	18-FW-2032	45	1	35	64	82			LIMITED UT AND MT COVERAGE DUE TO PIPE LUG CONFIGURATION.	MT/PT
C-C	1PL1-1PL8									
CS.20	FIGURE NO. 8-FW-7									
SURF								82		
VOL *	PIPE LUGS									
	UT/MT	MT	49	-	-	-	-	51	* AUG PSI - BEZ	
2	18-FW-2032	45	6	14	80	87			LIMITED UT COVERAGE DUE TO PIPE LUG CONFIGURATION.	PT
--	1PL9-1PL10									
--	FIGURE NO. 8-FW-7									
VOL *	PIPE LUGS									
	UT							87	* AUG PSI - BEZ	

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: MAIN STEAM - PIPE LUGS (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION NDE
				1	2	EFF.	COV.		
CATEGORY	WELD ID FIGURE	EXAM TYPE	NONE	DIR	DIR	COV.	TOTAL		
ITEM NO.	WELD CONFIGURATION								
EX. RQMT	EXAMINATION METHOD								
2	30-MS-2001	45	2	20	78	88		LIMITED UT AND MT COVERAGE DUE TO	MT/PT
C-C	29PL1-29PL8							PIPE LUG CONFIGURATION.	
C3.20	FIGURE NO. 8-MS-2								
SURF							88		
VOL *	PIPE LUGS								
	UT/MT	MT	46	-	-	-	54	* AUG PSI - BEZ	
2	30-MS-2001	45	6	14	80	87		LIMITED UT COVERAGE DUE TO PIPE LUG	PT
--	30PL1-30PL2							CONFIGURATION.	
--	FIGURE NO. 8-MS-2								
VOL *	PIPE LUGS								
	UT						87	* AUG PSI - BEZ	
2	30-MS-2002	45	2	20	78	82		LIMITED UT AND MT COVERAGE DUE TO	MT/PT
C-C	30PL1-30PL8							PIPE LUG CONFIGURATION.	
C3.20	FIGURE NO. 8-MS-4								
SURF							88		
VOL *	PIPE LUGS								
	UT/MT	MT	46	-	-	-	54	* AUG PSI - BEZ	
2	30-MS-2002	45	6	14	80	87		LIMITED UT COVERAGE DUE TO PIPE LUG	PT
--	31PL1-31PL2							CONFIGURATION.	
--	FIGURE NO. 8-MS-4								
VOL *	PIPE LUGS								
	UT						87	* AUG PSI - BEZ	

ASME CATEGORY C-C

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: MAIN STEAM - PIPE LUGS (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				TOTAL	LIMITATION	FABRICATION NDE
				NONE	DIR	DIR	EFF.			
CATEGORY	WELD ID FIGURE	WELD ID FIGURE	TYPE							
ITEM NO.	WELD CONFIGURATION	WELD CONFIGURATION		1	2	EFF.				
EX. RQMT	EXAMINATION METHOD	EXAMINATION METHOD		COV.						
2	30-MS-2003	30-MS-2003	45	2	20	78	88		LIMITED UT AND MT COVERAGE DUE TO	MT/PT
C-C	29PL1-29PL8	29PL1-29PL8							PIPE LUG CONFIGURATION.	
C3.20	FIGURE NO. 8-MS-6	FIGURE NO. 8-MS-6								
SURF							88			
VOL *	PIPE LUGS	PIPE LUGS								
	UT/MT	UT/MT	MT	46	-	-	-	54	* AUG PSI - BEZ	
2	30-MS-2003	30-MS-2003	45	6	14	80	87		LIMITED UT COVERAGE DUE TO PIPE LUG	PT
..	30PL1-30PL2	30PL1-30PL2							CONFIGURATION.	
..	FIGURE NO. 8-MS-6	FIGURE NO. 8-MS-6								
VOL *	PIPE LUGS	PIPE LUGS								
	UT	UT						87	* AUG PSI - BEZ	
2	30-MS-2004	30-MS-2004	45	2	20	78	88		LIMITED UT AND MT COVERAGE DUE TO	MT/PT
C-C	28PL1-28PL8	28PL1-28PL8							PIPE LUG CONFIGURATION.	
C3.20	FIGURE NO. 8-MS-8	FIGURE NO. 8-MS-8								
SURF							88			
VOL *	PIPE LUGS	PIPE LUGS								
	UT/MT	UT/MT	MT	46	-	-	-	54	* AUG PSI - BEZ	
2	30-MS-2004	30-MS-2004	45	6	14	80	87		LIMITED UT COVERAGE DUE TO PIPE LUG	PT
..	29PL1-29PL2	29PL1-29PL2							CONFIGURATION.	
..	FIGURE NO. 8-MS-8	FIGURE NO. 8-MS-8								
VOL *	PIPE LUGS	PIPE LUGS								
	UT	UT						87	* AUG PSI - BEZ	



ASME CATEGORY C-F

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: CONTAINMENT SPRAY (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				EFF.	TOTAL	LIMITATION	FABRICATION
				WONE	DIR	DIR	COV.				
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	1	2	EFF.	COV.	TOTAL	LIMITATION	FABRICATION	
ITEM NO.	WELD ID FIGURE	WELD CONFIGURATION	TYPE	1	2	EFF.	COV.	TOTAL	LIMITATION	FABRICATION	
EX. ROHT	EXAMINATION METHOD	EXAMINATION METHOD	TYPE	WONE	DIR	DIR	COV.	TOTAL	LIMITATION	NDE	
2	12-CS-2301		45	0	0	100	100		NO UT45T ON THE FLANGE SIDE DUE TO	RT	
C-F	8		45T	14	0	86	86		FLANGE CONFIGURATION.		
CS.11	FIGURE NO. 8-CS-4										
VOL/SURF	PIPE-TO-FLANGE							93			
	UT/PT		PT	0	*	*	*	100			
2	8-CS-2302		45	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO	RT	
C-F	17		45T	25	0	75	75		VALVE CONFIGURATION.		
CS.11	FIGURE NO. 8-CS-6										
VOL/SURF	PIPE-TO-VALVE							88			
	UT/PT		PT	0	*	*	*	100			
2	8-CS-2303		45	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO	RT	
C-F	12		45T	22	0	78	78		VALVE CONFIGURATION.		
CS.11	FIGURE NO. 8-CS-4										
VOL/SURF	PIPE-TO-VALVE							89			
	UT/PT		PT	0	*	*	*	100			



SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: MAIN STEAM - LOOP 1 (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION NOE
			EXAM TYPE	NONE	DIR	DIR	EFF. COV. TOTAL		
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	EXAM TYPE	1	2	EFF. COV.	TOTAL		
ITEM NO.	WELD CONFIGURATION	EXAM TYPE	NONE	DIR	DIR	EFF. COV.	TOTAL		
EX. RQMT	EXAMINATION METHOD	EXAM TYPE	NONE	DIR	DIR	EFF. COV.	TOTAL		
2	30-MS-2001	45	13	0	87	87		LIMITED UT45 AND UT45T DUE TO	RT
C-F	26	45T	8	10	82	87		PROXIMITY OF PERMANENT PIPE SUPPORT.	
CS.21	FIGURE NO. W-MS-2								
VOL/SURF	PIPE-TO-PIPE						87		
	UT/MT	MT	11	-	-	-	89	LIMITED MT COVERAGE DUE TO PROXIMITY	
								OF PERMANENT PIPE SUPPORT.	
2	30-MS-2001	45	1	1	98	99		LIMITED UT45 DUE TO PROXIMITY OF	RT
C-F	30LU	45T	0	0	100	100		PERMANENT PIPE SUPPORT.	
CS.22	FIGURE NO. B-MS-2								
VOL/SURF	LONGITUDINAL WELD						99		
	UT/MT	MT	0	-	-	-	100		
2	30-MS-2001	45	48	0	52	52		LIMITED UT45 AND UT45T DUE TO	RT
C-F	30LD	45T	43	10	47	52		PROXIMITY OF PERMANENT PIPE SUPPORT.	
CS.22	FIGURE NO. B-MS-2								
VOL/SURF	LONGITUDINAL WELD						52		
	UT/MT	MT	48	-	-	-	52	LIMITED MT COVERAGE DUE TO PROXIMITY	
								OF PERMANENT PIPE SUPPORT.	
2	30-MS-2001	45	72	0	28	28		LIMITED UT45 AND UT45T DUE TO	RT
C-F	31LU	45T	67	10	23	28		PROXIMITY OF PERMANENT PIPE SUPPORT.	
CS.22	FIGURE NO. B-MS-2								
VOL/SURF	LONGITUDINAL WELD						28		
	UT/MT	MT	72	-	-	-	28	LIMITED MT COVERAGE DUE TO PROXIMITY	
								OF PERMANENT PIPE SUPPORT.	

SOUTH PLAIN PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: MAIN STEAM - LOOP 2 (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	% COVERAGE					LIMITATION	FABRICATION NDE
			EXAM	1	2	EFF.	COV.		
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	TOTAL		
2	30-MS-2002	45	2	4	94	96		LIMITED UT45 AND UT45T DUE TO	RT
C-F	27	45T	4	4	92	94		PROXIMITY OF PERMANENT PIPE SUPPORT.	
CS.21	FIGURE NO. B-MS-4								
VOL/SURF	PIPE-TO-PIPE						95		
	UT/MT	MT	11	-	-	-	89	LIMITED MT COVERAGE DUE TO PROXIMITY	
								OF PERMANENT PIPE SUPPORT.	
2	30-MS-2002	45	1	4	95	97		LIMITED .45 DUE TO PROXIMITY OF	RT
C-F	31LU	45T	0	0	100	100		PERMANENT PIPE SUPPORT.	
CS.22	FIGURE NO. B-MS-4								
VOL/SURF	LONGITUDINAL WELD						99		
	UT/MT	MT	0	-	-	-	100		
2	30-MS-2002	45	48	0	52	52		LIMITED UT45 AND UT45T DUE TO	RT
C-F	31LD	45T	43	10	47	52		PROXIMITY OF PERMANENT PIPE SUPPORT.	
CS.22	FIGURE NO. B-MS-4								
VOL/SURF	LONGITUDINAL WELD						52		
	UT/MT	MT	48	-	-	-	52	LIMITED MT COVERAGE DUE TO PROXIMITY	
								OF PERMANENT PIPE SUPPORT.	
2	30-MS-2002	45	72	0	28	28		LIMITED UT45 AND UT45T DUE TO	RT
C-F	32LU	45T	68	8	24	28		PROXIMITY OF PERMANENT PIPE SUPPORT.	
CS.22	FIGURE NO. B-MS-4								
VOL/SURF	LONGITUDINAL WELD						28		
	UT/MT	MT	72	-	-	-	28	LIMITED MT COVERAGE DUE TO PROXIMITY	
								OF PERMANENT PIPE SUPPORT.	

ASME CATEGORY C-F

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: MAIN STEAM - LOOP 3 (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY WELD IDENTIFICATION	EXAM	% COVERAGE				EFF.	TOTAL	LIMITATION	FABRICATION NDE
			TYPE	NONE	DIR	DIR				
2	30-MS-2003	45	0	1	99	100		LIMITED UT45 AND UT45T DUE TO	RT	
C-F	30LU	45T	0	15	85	93		PROXIMITY OF PERMANENT PIPE SUPPORT.		
C5.22	FIGURE NO. B-MS-6									
VOL/SURF							96			
	LONGITUDINAL WELD									
	UT/MT	MT	4	-	-	-	96	LIMITED MT COVERAGE DUE TO PROXIMITY		
								OF PERMANENT PIPE SUPPORT.		
2	30-MS-2003	45	43	0	57	57		LIMITED UT45 AND UT45T DUE TO	RT	
C-F	30LD	45T	40	6	54	57		PROXIMITY OF PERMANENT PIPE SUPPORT.		
C5.22	FIGURE NO. B-MS-6									
VOL/SURF							57			
	LONGITUDINAL WELD									
	UT/MT	MT	43	-	-	-	57	LIMITED MT COVERAGE DUE TO PROXIMITY		
								OF PERMANENT PIPE SUPPORT.		
2	30-MS-2003	45	72	0	28	28		LIMITED UT45 AND UT45T DUE TO	RT	
C-F	31LU	45T	68	8	24	28		PROXIMITY OF PERMANENT PIPE SUPPORT.		
C5.22	FIGURE NO. B-MS-6									
VOL/SURF							28			
	LONGITUDINAL WELD									
	UT/MT	MT	72	-	-	-	28	LIMITED MT COVERAGE DUE TO PROXIMITY		
								OF PERMANENT PIPE SUPPORT.		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: MAIN STEAM - LOOP 4 (CLASS 2 PIPING)

CLASS	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION NDE	
			1	2	EFF.	TOTAL			
CATEGORY	WELD ID FIGURE	TYPE	NONE	DIR	DIR	COV.	TOTAL		
ITEM NO.	WELD CONFIGURATION								
EX. RQMT	EXAMINATION METHOD								
2	30-MS-2004	45	6	9	85	90		LIMITED UT45 DUE TO PROXIMITY OF	RT
C-F	29LU	45T	0	0	100	100		PIPE LUGS.	
C5.22	FIGURE NO. B-MS-8								
VOL/SURF	LONGITUDINAL WELD						95		
	UT/MT	MT	0	-	-	-	100		
2	30-MS-2004	45	48	0	52	52		LIMITED UT45 AND UT45T DUE TO	RT
C-F	29LD	45T	48	0	52	52		PROXIMITY OF PERMANENT PIPE SUPPORT.	
C5.22	FIGURE NO. B-MS-8								
VOL/SURF	LONGITUDINAL WELD						52		
	UT/MT	MT	48	-	-	-	52	LIMITED MT COVERAGE DUE TO PROXIMITY	
								OF PERMANENT PIPE SUPPORT.	
2	30-MS-2004	45	70	0	30	30		LIMITED UT45 AND UT45T DUE TO	RT
C-F	30LU	45T	68	8	24	3		PROXIMITY OF PERMANENT PIPE SUPPORT.	
C5.22	FIGURE NO. B-MS-8								
VOL/SURF	LONGITUDINAL WELD						29		
	UT/MT	MT	72	-	-	-	28	LIMITED MT COVERAGE DUE TO PROXIMITY	
								OF PERMANENT PIPE SUPPORT.	

ASME CATEGORY C-F

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: RESIDUAL HEAT REMOVAL (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION NDE		
				TYPE	NONE	DIR	DIR			EFF.	COV.
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	EFF.	COV.	TOTAL		
ITEM NO.	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	EFF.	COV.	TOTAL		
EX. RGMT	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	EFF.	COV.	TOTAL	FABRICATION NDE		
2	14-RH-2202		45	0	0	100	100			NO UT45T ON THE FLANGE SIDE DUE TO	RT
C-F	2		45T	18	0	82	82			FLANGE CONFIGURATION.	
C5.11	FIGURE NO. B-RH-2										
VOL/SURF									91		
	PIPE-TO-FLANGE										
	UT/PT	PT	0	-	-	-	-		100		
2	12-RH-2202		45	0	0	100	100			NO UT45T ON THE FLANGE SIDE DUE TO	RT
C-F	4		45T	18	0	82	82			FLANGE CONFIGURATION.	
C5.11	FIGURE NO. B-RH-2										
VOL/SURF									91		
	ELBOW-TO-FLANGE										
	UT/PT	PT	0	-	-	-	-		100		
2	12-RH-2202		45	0	0	100	100			NO UT45T ON THE FLANGE SIDE DUE TO	RT
C-F	5		45T	18	0	82	82			FLANGE CONFIGURATION.	
C5.11	FIGURE NO. B-RH-2										
VOL/SURF									91		
	FLANGE-TO-PIPE										
	UT/PT	PT	0	-	-	-	-		100		
2	12-RH-2303		45	0	0	100	100			NO UT45T ON THE NOZZLE SIDE DUE TO	RT
C-F	4		45T	21	0	79	79			WELDED RING.	
C5.11	FIGURE NO. B-RH-10										
VOL/SURF									90		
	PIPE-TO-NOZZLE										
	UT/PT	PT	0	-	-	-	-		100		
2	8-RH-2106		45/60	0	23	77	89			LIMITED UT45/UT60 ON THE VALVE SIDE	RT
C-F	13		45T	0	0	100	100			DUE TO VALVE CONFIGURATION.	
C5.21	FIGURE NO. B-RH-7										
VOL/SURF									94		
	PIPE-TO-VALVE										
	UT/PT	PT	0	-	-	-	-		100		

ASME CATEGORY C-F

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: RESIDUAL HEAT REMOVAL (CLASS 2 PIPING)

CLASS	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION
			1	2	EFF.	TOTAL		
CATEGORY	WELD ID FIGURE	TYPE	NONE	DIR	DIR	COV.	TOTAL	NDE
2	B-RH-2210	45	23	20	57	67		RT
C-F	7	45T	0	0	100	100	LIMITED UT45 ON THE VALVE SIDE DUE TO VALVE CONFIGURATION.	
CS.21	FIGURE NO. B-RH-3							
VOL/SURF	PIPE-TO-VALVE						84	
	UT/PT	PT	0	-	-	-	100	

ASME CATEGORY C-F

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: SAFETY INJECTION (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION NDE	
				TYPE	NONE	DIR	DIR			EFF. COV.
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	EFF. COV.	TOTAL		
ITEM NO.	WELD CONFIGURATION	EXAM	TYPE	NONE	DIR	DIR	EFF. COV.	TOTAL		
EX. RQMT	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	EFF. COV.	TOTAL			
2	16-SI-2201	45	0	0	100	100			NO UT45T ON THE VALVE SIDE DUE TO	RT
C-F	16	45T	25	0	75	75			VALVE CONFIGURATION.	
C5.11	FIGURE NO. B-SI-4									
VOL/SURF	PIPE-TO-VALVE							88		
	UT/PT	PT	0	-	-	-		100		
2	12-SI-2301	45	0	0	100	100			NO UT45T ON THE FLANGE SIDE DUE TO	RT
C-F	10	45T	18	0	82	82			FLANGE CONFIGURATION.	
C5.11	FIGURE NO. B-SI-5									
VOL/SURF	PIPE-TO-FLANGE							91		
	UT/PT	PT	0	-	-	-		100		
2	6-SI-2107	45/60	8	34	58	75			LIMITED UT45/UT60 ON THE VALVE SIDE	RT
C-F	1	45T	0	0	100	100			DUE TO VALVE CONFIGURATION.	
C5.21	FIGURE NO. B-SI-16									
VOL/SURF	VALVE-TO-PIPE							88		
	UT/PT	PT	0	-	-	-		100		
2	6-SI-2109	45/60	2	41	57	78			LIMITED UT45,UT60 ON THE VALVE SIDE	RT
C-F	11	45T	0	0	100	100			DUE TO VALVE CONFIGURATION.	
C5.21	FIGURE NO. B-SI-16									
VOL/SURF	PIPE-TO-VALVE							89		
	UT/PT	PT	0	-	-	-		100		
2	6-SI-2110	45/60	0	35	65	83			LIMITED UT45/UT60 ON THE VALVE SIDE	RT
C-F	1	45T	0	0	100	100			DUE TO VALVE CONFIGURATION.	
C5.21	FIGURE NO. B-SI-14									
VOL/SURF	VALVE-TO-PIPE							91		
	UT/PT	PT	0	-	-	-		100		

ASME CATEGORY C-F

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: SAFETY INJECTION (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				LIMITATION	FABRICATION NDE
				1	2	EFF.	COV.		
CATEGORY	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	TOTAL		
ITEM NO.	WELD ID FIGURE	WELD CONFIGURATION	TYPE	NONE	DIR	DIR	TOTAL		
EX. RQMT	EXAMINATION METHOD	TYPE	NONE	DIR	DIR	COV.	TOTAL		
2	6-SI-2206	45	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO	RT
C-F	27	45T	20	0	80	80		VALVE CONFIGURATION.	
C5.11	FIGURE NO. B-SI-18								
VOL/SURF							90		
	PIPE-TO-VALVE								
	UT/PT	PT	0	-	-	-	100		
2	6-SI-2206	45	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO	RT
C-F	28	45T	20	0	80	80		VALVE CONFIGURATION.	
C5.11	FIGURE NO. B-SI-18								
VOL/SURF							90		
	VALVE-TO-PIPE								
	UT/PT	PT	0	-	-	-	100		
2	6-SI-2210	45	0	11	89	95		LIMITED UT45 ON THE VALVE SIDE DUE	RT
C-F	2	45T	0	0	100	100		TO VALVE CONFIGURATION.	
C5.21	FIGURE NO. B-SI-19								
VOL/SURF							97		
	PIPE-TO-VALVE								
	UT/PT	PT		-	-	-	100		
2	6-SI-2325	PT	24	-	-	-	76	LIMITED PT ON WELD DUE TO PERMANENT	RT
C-F	4							I-BEAM SUPPORT.	
C5.11	FIGURE NO. B-SI-21								
SURF									
	ELBOW-TO-PIPE								
	PT								
2	6-SI-2326	45/60	0	0	100	100		NO UT45T ON THE VALVE SIDE DUE TO	RT
C-F	7	45T	16	0	84	84		VALVE CONFIGURATION.	
C5.21	FIGURE NO. B-SI-21								
VOL/SURF							92		
	PIPE-TO-VALVE								
	UT/PT	PT		-	-	-	100		



ASME CATEGORY C-F-1

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2  
 ASME SECTION XI CODE COVERAGE LIMITATIONS  
 SYSTEM: SAFETY INJECTION (CLASS 2 PIPING)

CLASS	LINE NO./SUBASSEMBLY	WELD IDENTIFICATION	EXAM	% COVERAGE				EFF.	LIMITATION	FABRICATION
				NONE	DIR	DIR	COV.			
CATEGORY	WELD ID FIGURE		-----							
ITEM NO.	WELD CONFIGURATION		TYPE	1	2				NDE	
EX. RQMT	EXAMINATION METHOD		TYPE	NONE	DIR	DIR				
2	2-SI-2105		45	38	26	36		49	LIMITED UT45 ON BOTH SIDES DUE TO WELD AND REDUCER CONFIGURATION. NO UT45T ON THE REDUCER SIDE DUE TO REDUCER CONFIGURATION.	RT
C-F-1	15		45T	27	0	73		73		
C5.21	FIGURE NO. B-SI-22									
VOL/SURF	REDUCER-TO-PIPE							61		
		UT/PT	PT	0	-	-		-	100	
2	2-SI-2206		45	0	0	100		100	NO UT45T ON THE FLANGE SIDE DUE TO FLANGE CONFIGURATION.	RT
C-F-1	5		45T	27	0	73		73		
C5.21	FIGURE NO. B-SI-22									
VOL/SURF	FLANGE-TO-PIPE							87		
		UT/PT	PT	0	-	-		-	100	
2	2-SI-2306		45	0	13	87		94	LIMITED UT45 AND UT45T ON THE PIPE SIDE DUE TO PERMANENT PIPE SUPPORT.	RT
C-F-1	15		45T	18	0	82		82		
C5.21	FIGURE NO. B-SI-22									
VOL/SURF	REDUCER-TO-PIPE							88		
		UT/PT	PT	0	-	-		-	100	

APPENDIX M

COMPONENTS FOR WHICH FABRICATION  
NDE WAS UTILIZED FOR PSI

APPENDIX M

COMPONENTS FOR WHICH FABRICATION  
NDE WAS USED FOR PSI

<u>Components</u>	<u>Examination Area</u>	<u>Required Section XI Examination Method</u>	<u>Section III Fabrication NDE Method(s)</u>	<u>Basis for Using Fabrication NDE</u>
<u>Class 1</u>				
RPV Core Support Structure	Item No. 26 - Fuel Pin-to-Core Support Locking Devices	Visual	Visual	Inaccessible
Reactor Coolant System	12-RC-2221-8 Pipe-to-Pipe	Volumetric and Surface	RT, PT	Inaccessible
Reactor Coolant Pumps 2A, 2B, 2C, 2D	Pump Casing Welds - PCW	Volumetric	RT, PT	UT not feasible due to material acoustic properties
<u>Class 2</u>				
CS Pumps 2A, 2B, 2C	Pump Casing Welds - PCW1, PCW3, and PCW5 (Partial)	Surface	RT, PT	Inaccessible
HHSI Pumps 2A, 2B, 2C	Pump Casing Welds - PCW1, PCW3, and PCW5 (Partial)	Surface	RT, PT	Inaccessible
LHSI Pumps 2A, 2B, 2C	Pump Casing Welds - PCW1, PCW3, and PCW5 (Partial)	Surface	RT, PT	Inaccessible
Letdown HX 2A	Head-to-Flange	Volumetric	RT	UT not feasible due to the presence of numerous laminar-type reflectors within the base material.

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APPENDIX N

NIS-1 FORMS

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

1. Owner Houston Lighting & Power Co.; Electric Tower, P.O. Box 1700; Houston, TX  
(Name and Address of Owner) 77001
2. Plant South Texas Project Electric Generating Station; P.O. Box 308; Bay City, TX  
(Name and Address of Plant) 77414
3. Plant Unit 2 4. Owner Certificate of Authorization (if required) N.A.
5. Commercial Service Date N.A. 6. National Board Number for Unit N.A.
7. Components Inspected ASME Code Class 1 Items

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Reactor Pressure Vessel	Combustion Engineering/ Westinghouse (M)	12173	22391
Steam Generator A	Westinghouse (M)	2151	29
Steam Generator B	Westinghouse (M)	2152	30
Steam Generator C	Westinghouse (M)	2153	31
Steam Generator D	Westinghouse (M)	2154	32
Pressurizer	Westinghouse (M)	2161	19
Reactor Coolant Pump A	Westinghouse (M)	1080- 1163E26G01-14	NOT AVAILABLE
Reactor Coolant Pump B	Westinghouse (M)	1081- 1163E26G01-14	NOT AVAILABLE
Reactor Coolant Pump C	Westinghouse (M)	1082- 1163E26G01-14	NOT AVAILABLE
Reactor Coolant Pump D	Westinghouse (M)	1083- 1163E26G01-14	NOT AVAILABLE
Class 1 Piping	Ebasco (I)	N.A.	N.A.
Class 1 Valves	Various	N.A.	N.A.

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

FORM NIS-1 (Back)

8. Examination Dates 5-12-87 to 9-28-88 9. Inspection Interval from -- to PSI

- 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Section 5.0 of the STPEGS -2 PSI Summary Report for Class 1 and Class 2 Pressure Retaining Components
- 11. Abstract of Conditions Noted See Section 6.0 of the STPEGS -2 PSI Summary Report for Class 1 and Class 2 Pressure Retaining Components
- 12. Abstract of Corrective Measures Recommended and Taken See Section 6.0 of the STPEGS -2 PSI Summary Report for Class 1 and Class 2 Pressure Retaining Components

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

Certificate of Authorization No. (if applicable) N.A. Expiration Date N.A.

Date September 29, 19 88 Signed Houston Lighting & Power Company Owner By [Signature]

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texas and employed by Lumbermens Mut. Cas. Co. Long Grove, Ill. have inspected the components described in this Owner's Report during the period 5-12-87 to 9-28-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

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

[Signature] Commissions TEX 826  
Inspector's Signature National Board, State, Province, and Endorsements  
Date 9-30- 19 88

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

1. Owner Houston Lighting & Power Company; Electric Tower, P.O. Box 1700; Houston, TX  
(Name and Address of Owner) 77001
2. Plant South Texas Project Electric Generating Station; P.O. box 308; Bay City, TX  
(Name and Address of Plant) 77414
3. Plant Unit 2 4. Owner Certificate of Authorization (if required) N.A.
5. Commercial Service Date N.A. 6. National Board Number for Unit N.A.
7. Components Inspected ASME Code Class 2 Items (Sheet 1 of 2)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Regenerative Heat Exchanger	Joseph Oat Corp. (M)	2380-1B	2052
RHR Heat Exchanger A	Joseph Oat Corp. (M)	2312-4D	993
RHR Heat Exchanger B	Joseph Oat Corp. (M)	2312-4E	994
RHR Heat Exchanger C	Joseph Oat Corp. (M)	2312-4F	995
Steam Generator A	Westinghouse (M)	2151	29
Steam Generator B	Westinghouse (M)	2152	30
Steam Generator C	Westinghouse (M)	2153	31
Steam Generator D	Westinghouse (M)	2154	32
Letdown Heat Exchanger	Joseph Oat Corp. (M)	2312-1B	987
Excess Letdown Heat Exchanger	Joseph Oat Corp. (M)	2312-3B	989
R.C. Filter A	Paul Trinity Micro Corp. (M)	5EH-S1193-4	19481
R.C. Filter B	Paul Trinity Micro Corp. (M)	5EH-S1193-5	19482
Seal Water Inj. Filter A	Paul Trinity Micro Corp. (M)	5EH-S1209-1	19022
Seal Water Inj. Filter B	Paul Trinity Micro Corp. (M)	5EH-S1209-2	19023
Pulsation Dampener	Johnson Controls (M)	M0440	178
Class 2 Piping	Ebasco (I)	N.A.	N.A.

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

FORM NIS-1 (Back)

8. Examination Dates 5-12-87 to 9-28-88 9. Inspection Interval from -- to PSI
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Section 5.0 of the STPEGS -2 PSI Summary Report for Class 1 and Class 2 Pressure Retaining Components
11. Abstract of Conditions Noted See Section 6.0 of the STPEGS -2 PSI Summary Report for Class 1 and Class 2 Pressure Retaining Components
12. Abstract of Corrective Measures Recommended and Taken See Section 6.0 of the STPEGS -2 PSI Summary Report for Class 1 and Class 2 Pressure Retaining Components

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

Certificate of Authorization No. (if applicable) N.A. Expiration Date N.A.  
Houston Lighting &  
Date September 29, 19 88 Signed Power Company By Randall & Beverly  
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texas and employed by Lumbermens Mut. Cas. Co. of Long Grove, Ill. have inspected the components described in this Owner's Report during the period 5-12-87 to 9-28-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

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

B. Russell Commissions TEX 826  
Inspector's Signature National Board, State, Province, and Endorsements  
Date 9-30- 19 88



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

1. Owner Houston Lighting & Power Co.; Electric Tower, P.O. Box 1700; Houston, TX.  
(Name and Address of Owner) 77001
2. Plant South Texas Project Electric Generating Station; P.O. Box 308; Bay City, TX  
(Name and Address of Plant) 77414
3. Plant Unit 2 4. Owner Certificate of Authorization (if required) N.A.
5. Commercial Service Date N.A. 6. National Board Number for Unit N.A.
7. Components Inspected ASME Code Class 2 Items (Sheet 2 of 2)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Containment Spray Pump A	Pacific Pumps (M)	51710	454
Containment Spray Pump B	Pacific Pumps (M)	51711	455
Containment Spray Pump C	Pacific Pumps (M)	51712	456
RHR Pump A	Pacific Pumps (M)	51734	363
RHR Pump B	Pacific Pumps (M)	51735	364
RHR Pump C	Pacific Pumps (M)	51736	365
HHSI Pump A	Pacific Pumps (M)	51698	400
HHSI Pump B	Pacific Pumps (M)	51699	401
HHSI Pump C	Pacific Pumps (M)	51700	402
LHSI Pump A	Pacific Pumps (M)	51704	460
LHSI Pump B	Pacific Pumps (M)	51705	461
LHSI Pump C	Pacific Pumps (M)	51706	462

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

FORM NIS-1 (Back)

- 8. Examination Dates 5-12-87 to 9-28-88 9. Inspection Interval from -- to PSI
- 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Section 5.0 of the STPEGS -2 PSI Summary Report for Class 1 and Class 2 Pressure Retaining Components
- 11. Abstract of Conditions Noted. See Section 6.0 of the STPEGS -2 PSI Summary Report for Class 1 and Class 2 Pressure Retaining Components
- 12. Abstract of Corrective Measures Recommended and Taken See Section 6.0 of the STPEGS -2 PSI Summary Report for Class 1 and Class 2 Pressure Retaining Components

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

Certificate of Authorization No. (if applicable) N.A. Expiration Date N.A.  
Houston Lighting & Power Company  
 Date September 29, 19 88 Signed Owner By Shadell J. Gentry

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texas and employed by Lumbermens Mut. Cas. Co. Long Grove, Ill. have inspected the components described in this Owner's Report during the period 5-12-87 to 9-28-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

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

Shadell J. Gentry Commissions TEX 896  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date 9-30- 19 88