ENCLOSURE (3)

BALTIMORE GAS AND ELECTRIC COMPANY

INSERVICE INSPECTION SUMMARY REPORT

FOR CALVERT CLIFFS UNIT 1

SPRING 1996 INSERVICE EXAMINATION OF SELECTED
CLASS 1 AND CLASS 2
COMPONENTS AT THE
CALVERT CLIFFS NUCLEAR POWER PLANT
UNIT 1

SPRING 1996 INSERVICE EXAMINATION OF SELECTED CLASS 1 AND CLASS 2 COMPONENTS AT THE CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT 1

FINAL REPORT

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Materials Engineering and Inspection Unit
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ABSTRACT

An inservice examination (ISI) of selected Class 1 and Class 2 components, and supports of Baltimore Gas and Electric Company's (BGE) Calvert Cliffs Nuclear Power Plant, Unit 1, was performed by BGE and Nuclear Energy Services (NES) personnel during the spring 1996 refueling outage. The ISI was performed using visual, manual ultrasonic, magnetic particle, and liquid penetrant techniques. This examination constituted the first ISI performed in the third period of the second 10-year interval of commercial operation. The components were examined in accordance with BGE "Examination Plan for the 1996 Inservice Examination of Calvert Cliffs Nuclear Power Plant, Unit 1," including any changes made during the ISI.

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ABBREVIATIONS

ASME	-	American Society of Mechanical Engineers
BGE	-	Baltimore Gas and Electric Company
IRS	-	Inside Radius Section
ISI	-	Inservice Examination
Calvert Cliffs 1	-	Calvert Cliffs Nuclear Power Plant, Unit 1
MEIU	-	Materials Engineering & Inspection Unit
MT	-	Magnetic Particle
NDE	-	Nondestructive Examination
NES	-	Nuclear Energy Services
PT	-	Liquid Penetrant
QA	-	Quality Assurance
RPV	-	Reactor Pressure Vessel
UT	-	Ultrasonic
VT	-	Visual

I. INTRODUCTION

During the spring 1996 refueling outage, Baltimore Gas and Electric Company (BGE) and Nuclear Energy Services (NES) personnel performed nondestructive examinations (NDE) on selected Class 1 and Class 2 components and supports at BGE's Calvert Cliffs Nuclear Power Plant, Unit 1 (Calvert Cliffs 1). This report discusses the results of those examinations.

A. Applicable Documents

The inservice examination (ISI) was performed in accordance with the following documents:

- Section Xl of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, "Rules for Inservice inspection of Nuclear Power Plant Components," 1983 Edition with Addenda through Summer 1983 (83S83)
- Section V of the ASME Code, "Nondestructive Examination," 83S83
- Program Plan for the Second Inspection Interval for Calvert Cliffs Nuclear Power Plant, Units 1 and 2
- Long-Term Plan for Calvert Cliffs Nuclear Power Plant, Unit 1
- BGE Final Plan, "Examination Plan for the 1996 Inservice Examination of Calvert Cliffs Nuclear Power Plant, Unit 1," with changes made on site
- ASME Code Case N-408, "Alternative Rules for Examination of Class 2 Piping"
- BGE MN-3-101, "Nondestructive Examination"
- BGE MN-3-104, "Procedures and Personnel Qualification"
- BGE MN-3- 110, "Inservice Inspection of ASME Section XI Components"

B. Examination Areas

Selected components in the following Class 1 and Class 2 areas were examined by BGE and NES personnel utilizing NDE techniques:

Class 1 Components and Systems

Reactor Pressure Vessel

Vessel Interior
ICI Bolting

Pressurizer

Nozzle-to-Head
Nozzle IRS
Manway Studs & Nuts

Class 1 Components and Systems (con't.)

Steam Generators

Circumferential
Lower Head Meridional
Manway Studs & Nuts

Piping and Supports

Reactor Coolant
Shutdown Cooling
Safety Injection
Pressurizer Spray
Pressurizer Safety and Relief
Letdown Lines
Charging Lines
Drain Lines

Pumps

Reactor Coolant Pump Studs & Nuts
Reactor Coolant Pump - Component Supports

Valves

Valve Bolting

Pressure Retaining Components (Pressure Retaining Boundary)

Reactor Vessel
Pressurizer
Steam Generators
Heat Exchangers
Piping
Pumps
Valves

Class 2 Components and Systems

Steam Generators

Transition Assembly-to-Intermediate Shell
Vessel-to-Main Steam Nozzle
Main Steam Nozzle IRS

Shutdown Cooling Heat Exchanger

Tube Sheet to Channel Cover
Outlet Nozzle to Shell

Class 2 Components and Systems (con't.)

Regenerative Heat Exchanger

Reducer to Tube Sheet
Tube Sheet to Shell
Cap to Tee
Tee to Tee
Tee to Cap
Tee to Shell
Shell to Tube Sheet
Tube Sheet to Reducer
Component Supports

Piping and Supports

Safety Injection
Containment Spray System
Shutdown Cooling System
Main Steam System
Feedwater

Pressure Retaining Components

Vessels
Piping
Pumps
Valves

II. DISCUSSION OF EXAMINATION ACTIVITIES

A. Preexamination Planning

In order to assure efficient performance of the ISI at Calvert Cliffs 1, BGE devoted a concentrated effort toward planning and preparing for the examination activities. This included review of MEIU procedures, review of ultrasonic (UT) calibration blocks for compliance to ASME Code, and procedure requirements.

BGE developed a comprehensive Examination Plan which provided all of the technical information required to perform the ISI. It contained a listing of the examination areas, procedures, UT calibration block drawings, weld identification drawings, and other information pertinent to the performance of the ISI. Selection of Class 1 and Class 2 components and supports for examination was based on the Long-Term Plan for Calvert Cliffs 1. Additional components were scheduled for examination to meet allocation requirements where the situation warranted.

Communication was maintained between BGE engineers and NES to review examination areas, discuss site support requirements, and develop the Examination Plan.

B. Examination Procedures and Personnel

The NDE activities were performed utilizing visual examinations (VT), liquid penetrant (PT), magnetic particle (MT), and UT techniques. All of the PT, MT, and VT examinations were performed in accordance with BGE's procedures. These procedures were written and controlled in accordance with BGE's QA program and are on file with BGE.

All of the UT examinations were performed in accordance with procedures that were written for BGE by NES.

BGE examination personnel were certified, trained, and qualified in accordance with BGE's QA program. Copies of the BGE examination personnel certifications are on file with BGE. NES examination personnel were certified and qualified by NES in accordance with the requirements of NES 80A9068 (Rev. 10), "Procedure for Certifying Nondestructive Examination Personnel," and NES 80A9069 (Rev. 14), "Certification of Visual Examination Personnel." NES personnel certifications were reviewed and approved by BGE Level III personnel.

C. Procedure Demonstration

All NES procedures used during this outage were demonstrated to the Authorized Nuclear Inservice Inspector (ANII).

D. Examination Activities

This section provides a discussion of the various onsite NDE activities performed during the ISI. While performing examinations, NES and BGE personnel were subject to QA surveillance by BGE QA personnel. The ANII performed surveillance of certain examinations performed by NES and BGE personnel.

1. Class 1 and Class 2 Piping, Pumps, and Valves

NES Level II and Level III examiners used UT techniques to examine Class 1 and Class 2 components, including welds in vessel forgings, austenitic piping, ferritic piping, dissimilar metal welds, flange bolting, and pumps.

Various techniques were utilized by NES personnel to perform the manual UT examinations, dependent upon the material type and weld thickness.

2. UT Examination Volume Coverage

UT coverage of the examination volume was provided, to the extent possible, in accordance with the requirements of ASME Section XI. In those cases where physical conditions of the component restricted examination of the required volume, the limitation is documented in the weld examination data package. A discussion of the required examination volumes is as follows:

a. *Vessels*

In accordance with IWB-2500 of Section XI, Class 1 vessels received a full-volume examination of the weld and one-half the component thickness on each side of the weld. In accordance with IWC-2500 of Section XI, Class 2 vessels received a full-volume examination of the weld and one-half inch of the base material on each side of the weld. For Class 2 nozzle-to-vessel welds, only the lower one-third volume of the weld and one-quarter inch on each side of the weld are required.

b. *Piping*

In accordance with IWB-2500 and IWC-2500 of Section XI, the required volume for Class 1 and Class 2 piping welds consists of the lower one-third of the weld and one-quarter inch of the base material on each side as measured from the outside surface fusion line.

E. Summary of Examination Results

All UT indications determined to be recordable were investigated by NES to determine the nature of the reflector. Disposition of these reflectors were documented on NES resolution records and are filed with the examination packages.

F. Data Comparison

In accordance with IWB-3121 of Section XI, examination data were compared with recorded results of the preservice examination and/or prior ISIs where available. When previous data were not available, a thickness and profile of the examination area was recorded and added to the examination package.

G. Materials

All materials contacting the examination surface (i.e., ultrasonic couplant, piping marking devices, liquid penetrant, etc.) are required by the ASME Code to be tested and certified to be within acceptable sulfur and halogen limits prior to their use. Certifications are on file with BGE.

H. Ultrasonic Calibration Blocks

Calibration blocks owned by BGE were used to calibrate manual UT instruments prior to the examination of the selected welds. Drawings of the various calibration blocks used are contained in Appendix C. Certifications for the blocks are on file with BGE.

III. SUMMARY OF EXAMINATIONS

This section provides a discussion of the field data records and a summary of the NDE activities performed at Calvert Cliffs 1.

A. Explanation of Field Data Records

The results of the examinations performed by BGE and NES personnel were recorded on either BGE or NES forms. Field data records are available at the plant site for review.

The NES field data records for each weld or area are assembled in a package preceeded by a BGE ISI Resolution Sheet. The examination areas and summary sheet numbers correspond to those listed in the Summary Table.

The instruments utilized to perform the UT examinations were calibrated prior to use, then verified again at intervals specified in the applicable procedures, and upon the completion of the examinations. The documented calibration and calibration verification provide immediate assurance that the examinations were performed using properly calibrated instruments.

The examination results were recorded on the applicable data record sheets as specified in the applicable procedures. The information documented on these forms describes the parameters associated with those indications which were greater than the recording levels specified in the applicable procedures

The size, location, and nature of indications were determined by analyzing the indication parameters recorded on the forms described above. The analysis is documented on NES Indication Data Sheets, which are included as part of each data package, when required.

B. Nondestructive Examination Summary Table

The following section is the Nondestructive Examination Summary Table (Summary Table). The Summary Table lists the areas at Calvert Cliffs 1 that were examined by BGE or NES during this ISI. See Figure 1 for an explanation of the Summary Table format. The identification drawings depicting the location of RPV and Class 1 piping components are contained in Appendix A. Class 2 piping components are contained in Appendix B.

CALVERT CLIFFS NUCLEAR POWER PLANT UNIT 2
SUMMARY OF NONDESTRUCTIVE EXAMINATIONS
SECOND INTERVAL, SECOND PERIOD, SECOND OUTAGE (1995)
CLASS 1 COMPLETED COMPONENTS

REACTOR PRESSURE VESSEL

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	GEOM	OTHER	REMARKS **CALIBRATION BLOCK**

The remarks column is used to describe any pertinent or unique features of the examination such as limitations, results, CNFs, etc. Ultrasonic calibration blocks are also listed in this column.

The results of the examination are indicated in these columns. The absence of recordable indications is shown by an "X" in the "NOREC" column. The presence of ultrasonic indications shown to be the result of a geometric feature of the examination area is indicated by an "X" in the "GEOM" column. The presence of nongeometric indications is indicated by an "X" in the "OTHER" column, and an explanation of the nature of each nongeometric indication is contained in the "REMARKS" column.

This column lists the applicable SwRI nuclear projects operating procedure used for the examination.

The NDE method used during the examination is listed in this column.

The ASME SECTION XI ITEM NO. and CATEGORY of the examination area are listed in this column.

Each examination area is listed in this column. Details of the weld identification system are contained in Appendices A and B.

This column references the examination summary sheet which serves as a cover sheet for the data package and lists the data record numbers, the examiners, and any pertinent remarks.

Figure 1. Explanation of the Summary Table Format

CALVERT CLIFFS NUCLEAR PLANT UNIT 1
INSERVICE INSPECTION SUMMARY
SECOND INTERVAL, THIRD PERIOD, FIRST OUTAGE (96RF)
CLASS 1 COMPLETED COMPONENTS

REACTOR PRESSURE VESSEL

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	GEOM	OTHER	REMARKS **CALIBRATION BLOCK**
	VESSEL INTERNALS (FIG NO A-1)							
003300	VESSEL INTERIOR	B-N-1 B13.10	VT-3	NDE-5715-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-169. ONLY THE REPAIRED AREA WAS EXAMINED PER R&R PLAN.
	ICI BOLTING							
003625	ICI BOLTING 1-64 (FIGURE A-1)	B-G-2 B7.10	VT-2	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-26. PRE-SERVICE EXAM.

PRESSURIZER

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	NOZZLE TO HEAD WELDS (FIG NO A-3)							
004150	16-405A SAFETY AND RELIEF NOZZLE TO UPPER HEAD	B-D B3.110	UT	83A6035, 2	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-515. LIMITED EXAM DUE TO CONFIGURATION. ONLY 77% EXAMINED. **CC-1 (5"-CSCL)**
	NOZZLE INSIDE RADIUS SECTION (FIG NO A-3)							
004350	16-405A-IRS SAFETY AND RELIEF NOZZLE AT 225 DEG.	B-D B3.120	UT	83A6045, 1	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-499. **CC-62 (4"-SS)**
	STUDS AND NUTS (FIG NO A-3)							
004550	MANWAY STUDS 1-20	B-G-2 B7.20	VT-1	NDE-5712-CC	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-64.
004600	MANWAY NUTS 1-20	B-G-2 B7.20	VT-1	NDE-5712-CC	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-79.

STEAM GENERATOR NUMBER 11

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	OGEOMR	OTHER	REMARKS **CALIBRATION BLOCK**
	CIRCUMFERENTIAL WELDS (FIG NO A-4)							
004650	11-4-104 TUBE SHEET TO LOWER EXTENSION RING	B-B B2.40	UT	83A6035, 2	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-318. LIMITED EXAM DUE TO GEOMETRY. ONLY 81% EXAMINED. **CC-2 (7"-CSCL)**
004700	11-4-102 LOWER EXTENSION RING TO LOWER HEAD	B-B B2.31	UT	83A6035, 2	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-317. LIMITED EXAM DUE TO WELD CONFIGURATION. ONLY 76% EXAMINED. **CC-2 (7"-CSCL)**
	LOWER HEAD MERIDIONAL WELDS (FIG NO A-5)							
004900	11-1-111A MERIDIONAL WELD AT 66 DEGREES	B-B B2.32	UT	83A6035, 2	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-315. LIMITED EXAM DUE TO OUTLET NOZZLE. ONLY 88% EXAMINED. **CC-2 (7"-CSCL)**

STEAM GENERATOR NUMBER 11

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	GEO M	OTH ER	REMARKS **CALIBRATION BLOCK**
	STUDS AND NUTS (FIG NO A-5)							
005700	OUTLET SIDE MANWAY STUDS	B-G-2 B7.30	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-117.
005750	OUTLET SIDE MANWAY NUTS	B-G-2 B7.30	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-118.
005800	INLET SIDE MANWAY STUDS	B-G-2 B7.30	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-111,-133,-144. ONE STUD WAS REPLACED WITH A MOD. IR WRITTEN TO ADDRESS MATERIAL TRACEABILITY WITH THIS REPLACEMENT STUD. NO FURTHER ACTION REQUIRED.
005850	INLET SIDE MANWAY NUTS	B-G-2 B7.30	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-116.

STEAM GENERATOR NUMBER 12

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OGE OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	STUDS AND NUTS (FIG NO A-5)							
007000	OUTLET SIDE MANWAY STUDS	B-G-2 B7.30	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-114.
007050	OUTLET SIDE MANWAY NUTS	B-G-2 B7.30	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-115.
007100	INLET SIDE MANWAY STUDS	B-G-2 B7.30	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-110,-134,-145. ONE MODIFIED STUD WAS REPLACED. IR WRITTEN TO ADDRESS MATERIAL TRACEABILITY WITH THIS REPLACEMENT STUD. NO FURTHER ACTION REQUIRED.
007150	INLET SIDE MANWAY NUTS	B-G-2 B7.30	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-113.

REACTOR COOLANT SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E N	O T H E R	REMARKS **CALIBRATION BLOCK**
	30-RC-11A (FIG NO A-6 & A-8)							
102200	7LU-1	B-J	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	LONGITUDINAL SEAM	B9.12	UT	83A6015, 4	X	-	-	SEE NDE REPORT 96-MT-1-276 AND 96-UT-1-435. **CC-7 (30"-3.0"-CSCL)**
102250	7LU-2	B-J	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	LONGITUDINAL SEAM	B9.12	UT	83A6015, 4	X	-	-	SEE NDE REPORT 96-MT-1-277 AND 96-UT-1-436. **CC-7 (30"-3.0"-CSCL)**
102300	7	B-F	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO SAFE END	B5.130	UT	83A6015, 4	X	-	-	SEE NDE REPORT 96-PT-1-141 AND 96-UT-1-449. LIMITED EXAM DUE TO WELD CONFIGURATION. ONLY 45% EXAMINED. **CC-7/CC-10**
102350	8	B-J	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	SAFE END TO PUMP	B9.11	UT	83A6015, 4	X	-	-	SEE NDE REPORT 96-PT-1-140 AND 96-UT-1-448. LIMITED EXAM DUE TO WELD CONFIGURATION. ONLY 41% EXAMINED. **CC-10 (38"-3.250"-SS)**

REACTOR COOLANT SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	30-RC-11B (FIG NO A-6 & A-9)							
104700	10 SAFE END TO PIPE	B-F B5.130	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-216 AND 96-UT-1-521. LIMITED EXAM DUE TO BRANCH CONNECTIONS. ONLY 85% EXAMINED. **CC-7/CC-10**
104750	10LD-1 LONGITUDINAL SEAM	B-J B9.12	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-365 AND 96-UT-1-523. **CC-7 (30"-3.0"-CSCL)**
104800	10LD-2 LONGITUDINAL SEAM	B-J B9.12	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-364 AND 96-UT-1-522. **CC-7 (30"-3.0"-CSCL)**

SHUTDOWN COOLING SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	14-SC-1005 (FIG NO A-14)							
111150	1 REDUCER TO PIPE	B-J B9.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-139 AND 96-UT-1-414. LIMITED EXAM DUE TO WELD CROWN GEOMETRY. ONLY 50% EXAMINED. **CC-60 (14"-1.250"-SS)**
112250	17 ELBOW TO PIPE	B-J B9.11	PT UT	NDE-5210-CC, 0 83A6015, 4	- X	- -	X -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-550, 96-PT-1-132, 240, AND 255. REJECTABLE PT INDICATION NOTED. EVALUATED PT INDICATION USING VOLUMETRIC METHOD, AND DETERMINED ACCEPTABLE. **CC-60 (14"-1.250"-SS)**
112350	R-6 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-213. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 71% EXAMINED.
113050	H-10 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-61. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 79% EXAMINED.
	12-SC-1004 (FIG NO A-14)							
113350	5 VALVE 1-MOV-652 TO ELBOW	B-J B9.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-156 AND 96-UT-1-447. **CC-59 (12"-1.125"-SS)**

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	GEO M	OTH ER	REMARKS **CALIBRATION BLOCK**
	12-SI-1009 (FIG NO A-15)							
113550	R-4, R-3 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-112.
113700	4/6-SI-1001 6-IN. BRANCH CONNECTION	B-J B9.31	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-109 AND 96-UT-1-404. LIMITED EXAM DUE TO WELD CONFIGURATION. ONLY 34% EXAMINED. **CC-59 (12"-1.125"-SS)**
113850	6 ELBOW TO PIPE	B-J B9.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-108 AND 96-UT-1-373. **CC-59 (12"-1.125"-SS)**
113900	7 PIPE TO ELBOW	B-J B9.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-107 AND 96-UT-1-372. **CC-59 (12"-1.125"-SS)**
	12-SI-1010 (FIG NO A-16)							
115150	13 PIPE TO SAFE END	B-J B9.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-207 AND 96-UT-1-479. **CC-59/CC-6**
115200	14 SAFE END TO NOZZLE	B-F B5.130	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-208 AND 96-UT-1-480. **CC-70 (12"-N/SE)**

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	12-SI-1011 (FIG NO A-17)							
115950	12 PIPE TO SAFE END	B-J B9.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-158 AND 96-UT-1-471. **CC-59/CC-6**
116000	13 SAFE END TO NOZZLE	B-F B5.130	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-163 AND 96-UT-1-470. **CC-70 (12"-N/SE)**
	12-SI-1012 (FIG NO A-18)							
116700	12 PIPE TO SAFE END	B-J B9.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-210 AND 96-UT-1-477. **CC-59/CC-6**
116750	13 SAFE END TO NOZZLE	B-F B5.130	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-209 AND 96-UT-1-478. **CC-70 (12"-N/SE)**
	6-SI-1002 (FIG NO A-16)							
117050	27 VALVE 1-SI-128 TO PIPE	B-J B9.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-119 AND 96-UT-1-400. LIMITED EXAM DUE TO WELD CONFIGURATION. ONLY 87% EXAMINED. **CC-16 (6"-.562"-SS)**
117100	H-6 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-118.

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	6-SI-1003 (FIG NO A-17)							
117550	23	B-J	PT	WDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO PIPE	B9.11	UT	83A6015, 4	X	-	-	SEE NDE REPORT 96-PT-1-120 AND 96-UT-1-402. **CC-16 (6"-.562"-SS)**
	6-SI-1004 (FIG NO A-18)							
117700	H-4	B-K-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	INTEGRALLY WELDED ATTACHMENT	B10.10						SEE NDE REPORT 96-PT-1-121.

PRESSURIZER SPRAY SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OGE OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	3-PS-1001 (FIG NO A-20)							
118900	8 ELBOW TO PIPE	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-250.
118950	R-21 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-247.
119000	R-22 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-251. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 85% EXAMINED.
119050	9 PIPE TO ELBOW	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-249.
119350	H-4 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-230. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 76% EXAMINED.
	3-PS-1001M (FIG NO A-20)							
119600	18 PIPE TO ELBOW	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-167.
119850	23 ELBOW TO PIPE	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-166.
120050	27 ELBOW TO PIPE	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-168.

PRESSURIZER SPRAY SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	3-PS-1002 (FIG NO A-21)							
120350	1 NOZZLE TO SAFE END	B-F B5.140	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-180.
120400	2 SAFE END TO ELBOW	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-181.
120850	R-3 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-248.
121150	R-1 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-203.
121200	15 PIPE TO ELBOW	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-190.
121360	R-30 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-234. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 73% EXAMINED.
121900	26 PIPE TO VALVE 1-CV-100F	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-146.
121950	27 VALVE 1-CV-100F TO PIPE	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-147.

PRESSURIZER SAFETY AND RELIEF SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	4-SR-1001 (FIG NO A-22)							
122500	5 PIPE TO ELBOW	B-J B9.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-148 AND 96-UT-1-548. LIMITED EXAM DUE TO WELD CROWN. ONLY 50% EXAMINED. **CC-15 (4"-.438"-SS)**
	4-SR-1005 (FIG NO A-22)							
123100	1 NOZZLE TO SAFE END	B-F B5.40	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-171 AND 96-UT-1-450. **CC-26 (4"-1.250"-SS)**
123250	R-3 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-173. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 73% EXAMINED.
123300	R-2 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-174. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 73% EXAMINED.
	4-SR-1006 (FIG NO A-23)							
123600	R-3 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-215. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 73% EXAMINED.
123650	R-2 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-214. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 73% EXAMINED.
	2-1/2-SR-1003 (FIG NO A-22)							
123900	R-12 INTEGRALLY WELDED ATTACHMENT	B-K-1 B10.10	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-172. LIMITED EXAM DUE TO U-BOLT. ONLY 77% EXAMINED.

PRESSURIZER SAFETY AND RELIEF SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R C	G E M	O T E R	REMARKS **CALIBRATION BLOCK**
	2-1/2-SR-1004 (FIG NO A-23)							
124350	4 ELBOW TO PIPE	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-169.
124450	5FB FLANGE BOLTING	B-G-2 B7.50	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-135.
	2-1/2-SR-1007 (FIG NO A-22)							
124600	2FB FLANGE BOLTING	B-G-2 B7.50	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-142.

LETDOWN LINES

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	O G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	2-LD-1004 (FIG NO A-24)							
124800	1N VALVE 1-CV-515 TO PIPE	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-260.
125750	11 PIPE TO VALVE 1-CV-515	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-259.

CHARGING LINES

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	W O R E C	G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	2-CV-1003 (FIG NO A-25)							
126250	12 COUPLING TO ELBOW	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-176.
126700	21 COUPLING-TO-PIPE	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-177.
127100	29 ELBOW TO PIPE	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-113.
127750	40 PIPE TO COUPLING	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-191.
127800	41 COUPLING-TO-PIPE	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-193.
	2-CV-1005 (FIG NO A-27)							
129500	16 ELBOW TO PIPE	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-123.
130250	25 PIPE TO ELBOW	B-J B9.21	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-149.

DRAIN LINES

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR	GEO	OTHER	REMARKS **CALIBRATION BLOCK**
	2-DR-1005 (FIG NO A-30)							
131850	2 PIPE TO COUPLING	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-137.
132000	5 VALVE 1-RC-115 TO PIPE	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-105.
	2-DR-1007 (FIG NO A-32)							
132450	1 NOZZLE TO SAFE END	B-F B5.140	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-179.
132500	1A SAFE END TO PIPE	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-178.
132950	9 VALVE 1-RC-107 TO PIPE	B-J B9.40	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-145.

REACTOR COOLANT PUMPS

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	OGEOM	OTHER	REMARKS **CALIBRATION BLOCK**
	RCP-11A (FIG NO A-33)							
133050	11A-S-1 THROUGH 16 STUDS	B-G-1 B6.180	UT	83A6185, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-549. **CC-75**
133100	11A-N-1 THROUGH 16 NUTS	B-G-1 B6.200	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-195.
	RCP-11B (FIG NO A-33)							
[illegible]700 133000	PUMP FLANGE SURFACE	B-G-1 B6.190	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-235.
134000	PUMP CASING INTERNAL SURFACE	B-L-2 B12.20	VT-3	NDE-5713-CC, 1	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-234.
	RCP-12B (FIG NO A-33)							
134700	12B-S-1 THROUGH 16 STUDS	B-G-1 B6.180	UT	83A6185, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-319. **CC-75**

VALVES

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	OGEOM	OTHER	REMARKS **CALIBRATION BLOCK**
	VALVE BOLTING							
136350	1-CV-100E ON 3-PS-1001 (FIGURE A-20)	B-G-2 B7.70	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-91 AND 96-VT-1-92.
136400	1-CV-100F ON 3-PS-1002 (FIGURE A-21)	B-G-2 B7.70	VT-1	NDE-5712-CC, 0	-	-	X	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-165 & 96-VT-1-223. MINOR BORICACID BUILD UP ACCEPTABLE. NO MATERIAL LOSS SEEN.
137200	1-CV-516 ON 2-LD-1002 (FIGURE A-24)	B-G-2 B7.70	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-166.
137900	1-MOV-652 ON 12-SC-1004 (FIGURE A-14)	B-G-2 B7.70	VT-1	NDE-5712-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-13. PRE-SERVICE EXAM.

PRESSURE RETAINING COMPONENTS

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R C	G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	REACTOR VESSEL							
138650	PRESSURE RETAINING BOUNDARY	B-P B15.10	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.
	PRESSURIZER							
138750	PRESSURE RETAINING BOUNDARY	B-P B15.20	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.
	STEAM GENERATORS							
138850	PRESSURE RETAINING BOUNDARY	B-P B15.30	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.
	HEAT EXCHANGERS							
138950	PRESSURE RETAINING BOUNDARY	B-P B15.40	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.
	PIPING							
139050	PRESSURE RETAINING BOUNDARY	B-P B15.50	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.
	PUMPS							
139150	PRESSURE RETAINING BOUNDARY	B-P B15.60	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.

PRESSURE RETAINING COMPONENTS

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	GEO M	OTH ER	REMARKS **CALIBRATION BLOCK**
	VALVES							
139250	PRESSURE RETAINING BOUNDARY	B-P B15.70	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND IES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.

STEAM GENERATOR 11

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	SG-11 (FIG NO B-1)							
250200	SG-11-5 TRANSITION ASSEMBLY TO INTERMED. SHELL	C-A C1.10	UT	83A6035, 2	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-385 AND 96-UT-1-345. **CC-54 (7"-CS)**
250400	SG-11-MS VESSEL TO MAIN STEAM NOZZLE	C-B C2.21	MT UT	NDE-5110-CC, 0 83A6035, 2	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-278 AND 96-UT-1-429. **CC-55 (5"-CS)**
250500	SG-11-MS-IRS MAIN STEAM NOZZLE INSIDE RADIUS SECTION	C-B C2.22	UT	83A6045, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-421. **CC-41 (CS-IRS)**

SHUTDOWN COOLING HEAT EXCHANGERS

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R C	G E O M	O T H R	REMARKS **CALIBRATION BLOCK**
	SCHE-12 (FIG NO B-3)							
252350	SCHE-12-2 TUBE SHEET TO CHANNEL COVER	C-A C1.10	UT	83A6135, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-59. LIMITED EXAM DUE TO TUBE SHEET CONFIGURATION. ONLY 65% EXAMINED. **CC-56 (1.125"-CSCL)**
252450	SCHE-12-N2 OUTLET NOZZLE TO SHELL	C-B C2.21	PT UT	NDE-5210-CC, 0 83A6135, 0	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-68 AND 96-UT-1-64. LIMITED EXAM DUE TO NOZZLE CONFIGURATION. ONLY 52% EXAMINED. **CC-56 (1.125"-CSCL)**

REGENERATIVE HEAT EXCHANGER

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	RHE (FIG NO B-4)							
252800	RHE-1 REDUCER TO TUBE SHEET	C-A C1.30	UT	83A6015, 4	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-567. **CC-11 (8"-.875"-SS)**
252900	RHE-3 TUBE SHEET TO SHELL	C-A C1.30	UT	83A6015, 4	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-569. **CC-11 (8"-.875"-SS)**
253300	RHE-10 CAP TO TEE	C-A C1.20	UT	83A6015, 4	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-565. **CC-11 (8"-.875"-SS)**
253450	RHE-13 TEE TO TEE	C-A C1.10	UT	83A6015, 4	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-570. **CC-11 (8"-.875"-SS)**
253500	RHE-14 TEE TO CAP	C-A C1.20	UT	83A6015, 4	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-564. **CC-11 (8"-.875"-SS)**
253600	RHE-16 TEE TO SHELL	C-A C1.10	UT	83A6015, 4	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-563. LIMITED EXAM DUE TO WELD CONFIGURATION. ONLY 82% EXAMINED. **CC-11 (8"-.875"-SS)**

REGENERATIVE HEAT EXCHANGER

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	O G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	RHE (FIG NO B-4)							
254000	RHE-23 SHELL TO TUBE SHEET	C-A C1.30	UT	83A6015, 4	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-568. **CC-11 (8"-.875"-SS)**
254100	RHE-25 TUBE SHEET TO REDUCER	C-A C1.30	UT	83A6015, 4	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-566. **CC-11 (8"-.875"-SS)**

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OGE OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	24-SI-1202 (FIG NO B-6)							
301750	8/18-SI-1204 18-IN. BRANCH CONNECTION	C-F-1 C5.41	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-5.
	6-SI-1204 (FIG NO B-28)							
322100	14BC 4-IN. BRANCH CONNECTION	C-F-1 C5.41	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-44.
	6-SI-1210 (FIG NO B-34)							
327900	32 ELBOW TO VALVE 1-SI-118	C-F-1 C5.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-115 AND 96-UT-1-399. **CC-16 (6"-.562"-SS)**
	6-SI-1212 (FIG NO B-36)							
330500	25 PIPE TO ELBOW	C-F-1 C5.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-114 AND 96-UT-1-403. **CC-16 (6"-.562"-SS)**
	6-SI-1213 (FIG NO B-37)							
331500	15 PIPE TO ELBOW	C-F-1 C5.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-223 AND 96-UT-1-545. **CC-16 (6"-.562"-SS)**
	6-SI-1214 (FIG NO B-38)							
[illegible]950	20 ELBOW TO VALVE 1-SI-148	C-F-1 C5.11	PT UT	NDE-5210-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-116 AND 96-UT-1-398. **CC-16 (6"-.562"-SS)**

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR CEC	OGE OME	OTH ORR	REMARKS **CALIBRATION BLOCK**
	4-SI-1204 (FIG NO B-42)							
334350	1	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	REDUCER TO PIPE	C5.21	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 96-PT-1-12 AND 96-UT-1-96. **CC-64 (4"-.337"-SS)**
	4-SI-1206 (FIG NO B-44)							
336200	7	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	VALVE 1-MOV-650 TO PIPE	C5.21	UT	83A6015, 4	-	-	X	SEE NDE REPORT 95-PT-1-63 & 96-UT-1-14. UT CHARACTERIZED AS CONSTRUCTION RELATED. INDICATION WAS PRESENT ON ORIGINAL CONSTRUCTION RADIOGRAPH - WAS ACCEPTED. LIMITED EXAM DUE TO GEOMETRY. ONLY 75% EXAMINED. **CC-64 (4"-.337"-SS)**
	4-SI-1207 (FIG NO B-45)							
336850	8	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO PIPE	C5.21	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 95-PT-1-43 AND 95-UT-1-98. **CC-15 (4"-.438"-SS)**
	4-SI-1211 (FIG NO B-49)							
342600	22	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO PIPE	C5.21	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 95-PT-1-45 AND 95-UT-1-100. **CC-15 (4"-.438"-SS)**
342750	25	F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	PIPE TO ELBOW	.21	UT	83A6015, 4	X	-	-	SEE NDE REPORT 96-PT-1-197 AND 96-UT-1-484. **CC-15 (4"-.438"-SS)**

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OGE OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	3-SI-1201 (FIG NO B-50)							
343050	4	C-F-1	PT	NDE-5210-CC, 0-	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	TEE TO VALVE SI-427	C5.21	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 96-PT-1-3. THIS EXAM IS A REPLACEMENT FOR LTP# 343100. SEE NDE REPORT NO. 96-UT-1-89. LIMITED EXAM DUE TO VALVE CONFIGURATION. ONLY 71% EXAMINED. **CC-66 (3"-.300-SS)**
	3-SI-1203 (FIG NO B-52)							
344950	13	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	PIPE TO BRANCH CONNECTION	C5.21	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 95-PT-1-65 AND 96-UT-1-22. LIMITED EXAM DUE TO BRANCH CONNECTION. ONLY 67% EXAMINED. **CC-66 (3"-.300-SS)**
	3-SI-1221 (FIG NO B-56)							
345850	4	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	PIPE TO REDUCER	C5.21	UT	83A6015, 4	X	-	-	SEE NDE REPORT 96-PT-1-201 AND 96-UT-1-483. **CC-14 (3"-.438"-SS)**

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	GEN OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	2-SI-1202 (FIG NO B-57)							
346050	4 PIPE TO ELBOW	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-56.
346250	8 PIPE TO ELBOW	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-196.
	2-SI-1203 (FIG NO B-58)							
346800	1 VALVE 1-CVC-270 TO PIPE	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL SEE NDE REPORT 95-PT-1-59.
347150	8 PIPE TO COUPLING	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-60.
	2-SI-1204 (FIG NO B-59)							
349050	22 PIPE TO TEE	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-54.
	2-SI-1205 (FIG NO B-60)							
349350	6 PIPE TO VALVE 1-MOV-637	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-199.
349550	10 PIPE TO TEE	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-198.

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	2-SI-1209 (FIG NO B-63)							
350500	7 ELBOW TO PIPE	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-53.
	2-SI-1211 (FIG NO B-65)							
351350	8 PIPE TO ELBOW	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-200.
	2-SI-1215 (FIG NO B-69)							
352800	5 ELBOW TO PIPE	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-57.
353050	10 PIPE TO ELBOW	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-195.
	2-SI-1219 (FIG NO B-73)							
354100	3 ELBOW TO PIPE	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-55.
	2-SI-1221 (FIG NO B-74)							
354650	8 ELBOW TO PIPE	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-PT-1-8.
	2-SI-1224 (FIG NO B-77)							
356300	12 ELBOW TO PIPE	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-64.

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G M	O T H E R	REMARKS **CALIBRATION BLOCK**
	2-SI-1225 (FIG NO B-78)							
358350	36 PIPE TO REDUCER	C-F-1 C5.30	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-PT-1-62.

CONTAINMENT SPRAY SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	10-CS-1202 (FIG NO B-80)							
400250	5	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO PIPE	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 96-PT-1-9 AND 96-UT-1-99.
								CC-48 (10"-.250"-SS)
	8-CS-1204 (FIG NO B-84)							
402300	2	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO ELBOW	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 96-UT-1-83 & 96-PT-1-2.
								CC-45 (8"-.322"-SS)
	8-CS-1205 (FIG NO B-85A, B)							
405850	42	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAMINATION PERFORMED BY BGE PERSONNEL.
	ELBOW TO PIPE	--						SEE NDE RPT 95-PT-1-58.
	8-CS-1206 (FIG NO B-86A, B)							
407400	2	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO PIPE	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 95-PT-1-69 & 96-UT-1-34.
								CC-45 (8"-.322"-SS)

SHUTDOWN COOLING SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	GOM	OTHER	REMARKS **CALIBRATION BLOCK**
	14-SC-1203 (FIG NO B-87)							
412650	22	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	PIPE TO ELBOW	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 95-PT-1-49 AND 95-UT-1-97. **CC-51 (14"-.250"-SS)**
	14-SC-1204 (FIG NO B-88)							
414200	19	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO PIPE	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 96-PT-1-11 AND 96-UT-1-109. **CC-51 (14"-.250"-SS)**
	12-SC-1208 (FIG NO B-89)							
415800	12	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO PIPE	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 96-PT-1-4 AND 96-UT-1-103. **CC-50 (12"-.205"-SS)**
	12-SC-1213 (FIG NO B-90)							
416050	1	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	VALVE 1-SI-658 TO PIPE	--	UT	83A6015, 4	X	-	-	SEE NDE REPORT 96-PT-1-10 AND 96-UT-1-101. LIMITED EXAM DUE TO VALVE CONFIGURATION. ONLY 62% EXAMINED. **CC-50 (12"-.250"-SS)**
	12-SC-1215 (FIG NO B-91)							
416900	13	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	PIPE TO ELBOW	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 95-PT-1-48 AND 95-UT-1-99. **CC-50 (12"-.250"-SS)**

SHUTDOWN COOLING SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR C	OGE M	OTH ER	REMARKS **CALIBRATION BLOCK**
	10-SC-1214 (FIG NO B-92)							
418650	24	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO PIPE	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 95-PT-1-67 AND 96-UT-1-29. **CC-48 (10"-.250"-SS)**
	8-SC-1206 (FIG NO B-93)							
419100	1	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	BRANCH CONNECTION TO PIPE	--	UT	83A6015, 4	X	-	-	SEE NDE REPORT 95-PT-1-50 AND 96-UT-1-496. **CC-45 (8"-.322"-SS)**
	8-SC-1207 (FIG NO B-94)							
419950	7	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	ELBOW TO PIPE	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 95-PT-1-66 AND 96-UT-1-33. **CC-45 (8"-.322"-SS)**
	8-SC-1209 (FIG NO B-95)							
420500	3	C-F-1	PT	NDE-5210-CC, 0	-	-	X	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	PIPE TO ELBOW	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 96-UT-1-77 AND 96-PT-1-14. 0.188" LINEAR INDICATION FOUND. INDICATION ACCEPTABLE PER TABLE IWB-3514-2. **CC-45 (8"-.322"-SS)**
	8-SC-1210 (FIG NO B-96)							
420850	2	C-F-1	PT	NDE-5210-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL.
	REDUCER TO ELBOW	--	UT	83A6015, 0/1	X	-	-	SEE NDE REPORT 96-PT-1-13 AND 96-UT-1-80. **CC-45 (8"-.322"-SS)**

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	OGEM	OTHER	REMARKS **CALIBRATION BLOCK**
	36-MS-1201 (FIG NO B-97)							
421600	1/6-RV-3997 6-IN. BRANCH CONNECTION	AUGMTD C5.81	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-138.
421700	1/6-RV-3998 6-IN. BRANCH CONNECTION	AUGMTD C5.81	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-139.
421750	1/6-RV-3999 6-IN. BRANCH CONNECTION	AUGMTD C5.81	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-141.
	36-MS-1202 (FIG NO B-98)							
422600	H-52 INTEGRALLY WELDED ATTACHMENT	C-C C3.20	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-143.
422625	R-8 INTEGRALLY WELDED ATTACHMENT	C-C C3.20	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-127.
422650	1/6-RV-4006 6-IN. BRANCH CONNECTION	AUGMTD C5.81	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-136.
422700	1/6-RV-4007 6-IN. BRANCH CONNECTION	AUGMTD C5.81	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-137.

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	GOM	OTHER	REMARKS **CALIBRATION BLOCK**
	34-MS-1201 (FIG NO B-99)							
422950	A-2 INTEGRALLY WELDED ATTACHMENT	C-C C3.20	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-252.
425100	13LU LONGITUDINAL SEAM	AUGMTD --	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-102 AND 96-UT-1-265. **CC-38 (34"-1.06"-CS)**
425150	13 PIPE TO ELBOW	AUGMTD --	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-103 AND 96-UT-1-238. **CC-38 (34"-1.06"-CS)**
425200	13LD-1 LONGITUDINAL SEAM	AUGMTD --	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-108 AND 96-UT-1-240. **CC-38 (34"-1.06"-CS)**
425250	13LD-2 LONGITUDINAL SEAM	AUGMTD --	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-110 AND 96-UT-1-239. **CC-38 (34"-1.06"-CS)**

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G M	O T H E R	REMARKS **CALIBRATION BLOCK**
	34-MS-1202 (FIG NO B-100)							
425600	A-1 INTEGRALLY WELDED ATTACHMENT	C-C C3.20	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-251.
427200	10A PIPE TO MANIFOLD	AUGMTD C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-113 AND 96-UT-1-249. **CC-38 (34"-1.06"-CS)**
427900	15LU LONGITUDINAL SEAM	AUGMTD --	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-135 AND 96-UT-1-251. **CC-38 (34"-1.06"-CS)**
427950	15 PIPE TO PIPE	AUGMTD --	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-114 AND 96-UT-1-243. **CC-38 (34"-1.06"-CS)**
428000	15LD LONGITUDINAL SEAM	AUGMTD --	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-134 AND 96-UT-1-250. **CC-38 (34"-1.06"-CS)**
428200	16BC 4-IN. BRANCH CONNECTION	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-117.

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOPE C	OGE M	OTHER R	REMARKS **CALIBRATION BLOCK**
	34-MS-1204 (FIG NO B-101)							
428700	1 NOZZLE TO REDUCER	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-279 AND 96-UT-1-422. **CC-23 (36"-2.00"-CS)**
428800	2 ELBOW TO PIPE	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-214 & 96-UT-1-347. **CC-38 (34"-1.06"-CS)**
429400	H-8 INTEGRALLY WELDED ATTACHMENT	C-C C3.20	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-213. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 81% EXAMINED.
	34-MS-1205 (FIG NO B-102)							
429550	1 NOZZLE TO REDUCER	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-360 AND 96-UT-1-500. **CC-38 (34"-1.06"-CS)**
429650	2 ELBOW TO PIPE	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-185 AND 96-UT-1-346. **CC-38 (34"-1.06"-CS)**
430650	14 ELBOW TO PIPE	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	- X	- -	X -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-393 AND 96-MT-1-242. 0.200" MT INDICATION. PER ASME XI, ALLOWABLE LINEAR INDICATION BASE ON PIPE WALL THICKNESS OF 1.160", IS 0.3625". ACCEPTABLE AS IS. **CC-38 (34"-1.06"-CS)**

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	6-MS-1207 (FIG NO B-103)							
430810	3A PIPE TO VALVE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-158.
430820	3B VALVE TO PIPE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-157.
430850	4 PIPE TO TEE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-153.
431000	7 ELBOW TO PIPE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-149.
	6-MS-1208 (FIG NO B-104)							
431300	3 ELBOW TO PIPE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-155.
431400	5 PIPE TO ELBOW	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-159.
431450	6 ELBOW TO PIPE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-160.
431460	6A PIPE TO VALVE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-154.

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	G M	OTH ER	REMARKS **CALIBRATION BLOCK**
	6-MS-1208 (FIG NO B-104)							
431470	6B VALVE TO PIPE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-151.
431500	7 PIPE TO TEE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-161. LIMITED EXAM DUE TO WHIP RESTRAINT. ONLY 46% EXAMINED.
431550	8 TEE TO PIPE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-162. LIMITED EXAM DUE TO WHIP RESTRAINT. ONLY 47% EXAMINED.
431600	9 PIPE TO ELBOW	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-150.
431650	10 ELBOW TO PIPE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-147.
	6-MS-1237 (FIG NO B-105)							
432000	2 PIPE TO VALVE 1-MS-105	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-119.

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	GEOM	OTHER	REMARKS **CALIBRATION BLOCK**
	6-MS-1238 (FIG NO B-106)							
432070	1B PIPE TO ELBOW	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-124.
432080	1C ELBOW TO PIPE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-123.
432090	1D PIPE TO ELBOW	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-122.
432095	1E ELBOW TO PIPE	AUGMTD --	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-121. LIMITED EXAM DUE TO SUPPORT BRACKET. ONLY 86% EXAMINED.

FEEDWATER SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N E C	O R M	G O R	T E R	REMARKS **CALIBRATION BLOCK**
	16-FW-1201 (FIG NO B-107)								
432180	1B PIPE TO PIPE	AUGMTD	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-		EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-325 AND 96-UT-1-473. **CC-24 (16"-.844"-CS)**
432190	1A PIPE TO VALVE 1-MOV-4517	AUGMTD	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-		EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-115 AND 96-UT-1-247. **CC-24 (16"-.844"-CS)**
	16-FW-1202 (FIG NO B-108)								
432[illegible]	1B PIPE TO PIPE	AUGMTD	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-		EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-324 AND 96-UT-1-472. **CC-24 (16"-.844"-CS)**
432490	1A PIPE TO VALVE 1-MOV-4516	AUGMTD	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-		EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-125. LIMITED EXAM DUE TO PIPE RESTRAINT. ONLY 78% EXAMINED. **CC-24 (16"-.844"-CS)**
	16-FW-1218 (FIG NO B-109)								
433150	1 PIPE TO ELBOW	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-		EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-285 AND 96-UT-1-417. **CC-24 (16"-.844"-CS)**
433700	10 PIPE TO ELBOW	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-		EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-285 AND 96-MT-1-166. **CC-24 (16"-.844"-CS)**

FEEDWATER SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	16-FW-1218 (FIG NO B-109)							
433750	11 ELBOW TO PIPE	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-286 AND 96-MT-1-165. **CC-24 (16"-.844"-CS)**
433800	12 PIPE TO REDUCER	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-188 AND 96-UT-1-363. **CC-24 (16"-.844"-CS)**
433850	13 REDUCER TO TRANSITION PIECE	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-190 AND 96-UT-1-364. **CC-24 (16"-.844"-CS)**
	[illegible]19 (FIG NO B-110)							
	PIPE TO ELBOW	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-325 AND 96-MT-1-186. **CC-24 (16"-.844"-CS)**
434900	R-3 INTEGRALLY WELDED ATTACHMENT	C-C C3.20	MT	NDE-5110-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-234. LIMITED EXAM DUE TO PIPE CLAMP. ONLY 79% EXAMINED.
435100	18 PIPE TO ELBOW	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-287 AND 96-MT-1-169. **CC-24 (16"-.844"-CS)**

FEEDWATER SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	16-FW-1219 (FIG NO B-110)							
435150	19 ELBOW TO PIPE	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-UT-1-288 AND 96-MT-1-167. **CC-24 (16"-.844"-CS)**
435250	20 PIPE TO REDUCER	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-189 AND 96-UT-1-366. **CC-24 (16"-.844"-CS)**
435300	21 REDUCER TO TRANSITION PIECE	C-F-2 C5.51	MT UT	NDE-5110-CC, 0 83A6015, 4	X X	- -	- -	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-MT-1-187 AND 96-UT-1-365. **CC-24 (16"-.844"-CS)**

PRESSURE RETAINING COMPONENTS

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	G M	OTH ER	REMARKS **CALIBRATION BLOCK**
	PRESURE VESSELS							
436050	PRESSURE RETAINING BOUNDARY	C-H C7.10	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.
	PIPING							
436150	PRESSURE RETAINING BOUNDARY	C-H C7.30	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.
	PUMPS							
436250	PRESSURE RETAINING BOUNDARY	C-H C7.50	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.
	VALVES							
436350	PRESSURE RETAINING BOUNDARY	C-H C7.70	VT-2	NDE-5710-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-214 & 96-VT-1-221.

SHUTDOWN COOLING SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATG/ ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OGE OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	14-SC-1005 (FIG NO A-14)							
600850	H-2 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-96.
601200	H-6 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-178.
601250	R-6 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-99.
601300	H-7 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	-	-	X	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-102 AND 96-VT-1-189. SIGHT HOLE DRILLED AND THREAD ENGAGEMENT VERIFIED.
601500	R-9 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-121.

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	12-SI-1009 (FIG NO A-15)							
601550	R-3, R-4 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-85.
601650	H-5 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-90.
601800	H-7 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-84.
601900	R-6 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-153. COMPONENT ID DIFFERS BETWEEN ISO AND HANGER SKETCH. IR WRITTEN TO ADDRESS ISSUE.
	12-SI-1010 (FIG NO A-16)							
602000	R-3 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-122. ADDITIONAL EXAM DUE TO FAILURE OF LTP# 603250.
	12-SI-1011 (FIG NO A-17)							
602350	R-4 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-124. ADDITIONAL EXAM DUE TO FAILURE OF LTP# 603250.
	12-SI-1012 (FIG NO A-18)							
602750	R-3 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-121. ADDITIONAL EXAM DUE TO FAILURE OF LTP# 603250.

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	GEO M	OTH ER	REMARKS **CALIBRATION BLOCK**
	6-SI-1001 (FIG NO A-15)							
603050	H-10 COMPONENT SUPPORT	F-B F2.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-119.
603100	R-12 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-123. ADDITIONAL EXAM DUE TO FAILURE OF LTP# 603250.
	6-SI-1002 (FIG NO A-16)							
603150	H-6 COMPONENT SUPPORT	F-B F2.00	VT-3	NDE 5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-88.
603200	R-6 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-89.
603250	R-7 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	-	-	X	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-83. LOOSE BOLT UNACCEPTABLE PER ASME XI. IR WRITTEN TO TIGHTEN LOOSE BOLT. ADDITIONAL EXAMS REQUIRED. (IR1-045-830)
	6-SI-1003 (FIG NO A-17)							
603300	R-3 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-86.
603350	H-5 COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-87.

PRESSURIZER SAFETY AND RELIEF SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	4-SR-1005 (FIG NO A-22)							
604500	R-2 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-196. PRE-SERVICE EXAM.
	4-SR-1006 (FIG NO A-23)							
604600	R-2 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-194. PRE-SERVICE EXAM.

DRAIN LINES

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR CAL	OGE MAN	OTH ER	REMARKS **CALIBRATION BLOCK**
	2-DR-1005 (FIG NO A-30)							
607650	H-1 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-67.

REACTOR COOLANT PUMPS

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR	GEO	OTHER	REMARKS **CALIBRATION BLOCK**
	RCP-11B (FIG NO A-33)							
608150	11B-2SC COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-151.
608260	1-64-098 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-146.
	RCP-12A (FIG NO A-33)							
608400	12A-3SC COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-176.
608460	1-64-100 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-175.
608470	1-64-101 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-174.
	RCP-12B (FIG NO A-33)							
608670	1-64-103 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-147.

STEAM GENERATORS

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	OGEOM	OTHER	REMARKS **CALIBRATION BLOCK**
	STEAM GENERATOR NO. 11							
700000	SG-11-S1 COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-125.
700050	SG-11-S2 COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-126.
700100	SG-11-S3 COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-127.
700150	SG-11-S4 COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-128.
700200	SG-11-S5 COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-129.
700250	SG-11-S6 COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-130.
700300	SG-11-S7 COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-131.
700350	SG-11-S8 COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-132.

REGENERATIVE HEAT EXCHANGERS

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	GEO M	OTHER	REMARKS **CALIBRATION BLOCK**
	RHE (FIG NO B-4)							
700800	UPPER SUPPORT CRADLE COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-208.
700850	LOWER SUPPORT CRADLE COMPONENT SUPPORT	F-A F1.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-209.

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	6-SI-1204 (FIG NO B-28)							
707150	H-3, R-3 COMPONENT SUPPORT	F-B F2.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-123.
707250	H-2 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-130.
	6-SI-1210 (FIG NO B-34)							
708550	H-2, R-1 COMPONENT SUPPORT	F-B F2.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-107.
708600	H-3, R-3 COMPONENT SUPPORT	F-B F2.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-108.
	4-SI-1206 (FIG NO B-44)							
711200	A-34 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-124.
711250	R-1 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-125.
711300	R-2, R-3 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-126.
	4-SI-1208 (FIG NO B-46)							
712000	H-4, R-4 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-122.

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OGE OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	4-SI-1209 (FIG NO B-47)							
712400	A-2 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-97.
	2-SI-1203 (FIG NO B-58)							
714400	S-1 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	-	-	X	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-109. ANCHOR BOLT LOOSE. ACCEPTABLE PER DESIGN ENGINEERING. BOLT TIGHTENED.
714450	S-2 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-104.
714500	S-3 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-105.
714550	S-4 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-106.
714600	S-5 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-107.
714650	S-6 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-108.
715050	S-14 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-4.

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	G M	OTH ER	REMARKS **CALIBRATION BLOCK**
	2-SI-1203 (FIG NO B-58)							
715100	S-15 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-5.
715150	S-16 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-6.
715200	S-17 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-7.
715250	S-18 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-8.
715300	S-19 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-9.
715350	S-20 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-10.
	2-SI-1225 (FIG NO B-78)							
717750	S-5 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-131.
717800	S-6 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-132.

SHUTDOWN COOLING SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	GEOM	OTHER	REMARKS **CALIBRATION BLOCK**
	14-SC-1203 (FIG NO B-87)							
721450	H-9 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-96.
721500	R-8 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-79.
721600	H-1 COMPONENT SUPPORT	F-A F1-3	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-82.
721650	H-2 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-80.
721800	H-3 COMPONENT SUPPORT	F-A F1-3	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 95-VT-1-81.

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	GEN OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	36-MS-1201 (FIG NO B-97)							
724450	H-53 COMPONENT SUPPORT	F-B F2.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-160. ADDITIONAL EXAM DUE TO FAILURE OF 724750.
724500	R-9 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-161. ADDITIONAL EXAM DUE TO FAILURE OF 725250.
724550	H-51 COMPONENT SUPPORT	F-B F2.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-162. ADDITIONAL EXAM DUE TO FAILURE OF 724750.
724600	R-7 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-163. ADDITIONAL EXAM DUE TO FAILURE OF 725250.
	36-MS-1202 (FIG NO B-98)							
724650	H-54 COMPONENT SUPPORT	F-B F2.00	VT-3	NDE-5711-CC, 0	-	-	X	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-35. GAP ACCEPTABLE AS IS PER CIVIL DESIGN. IR WRITTEN AND ESP # ES-199600736 GENERATED TO REVISE HANGER SKETCH. (IR1-047-053)
724700	R-10 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-37.
724750	H-52 COMPONENT SUPPORT	F-B F2.00	VT-3	NDE-5711-CC, 0	-	-	X	EXAM PERFORMED BY BGE & NES PERSONNEL. SEE NDE REPORT 96-VT-1-44 & 96-VT-1-193. CRACKED WELD UNACCEPTABLE PER ASME XI. IR WRITTEN & ESP GENERATED TO CORRECT PROBLEM. ADDITIONAL EXAMS ARE REQUIRED. PRE-SERVICE EXAM PERFORMED AFTER REPAIR.

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	OGEOM	OTHER	REMARKS **CALIBRATION BLOCK**
	36-MS-1202 (FIG NO B-98)							
724800	R-8 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	-	-	X	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-36. IR WRITTEN TO ADDRESS DISCREPANCY. PER CIVIL DESIGN MEMO, HANGER ACCEPTABLE AS IS. ESP# ES199600752 GENERATED TO CORRECT DRAWING. (IR1-047-056)
	34-MS-1201 (FIG NO B-99)							
724850	A-2 COMPONENT SUPPORT	F-A F1-3	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-100.
724900	H-1 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-32.
724950	R-2 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-28.
725000	H-2 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-33.
725050	H-3 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-38.
725100	R-3 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-39.
725150	H-4 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-40.

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOREC	OGEOMR	OTHER	REMARKS **CALIBRATION BLOCK**
	34-MS-1201 (FIG NO B-99)							
725200	H-47 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-42.
725250	R-14 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	-	-	X	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-41. FLUID RESERVOIR <5% FULL IS UNACCEPTABLE PER ASME XI. IR WRITTEN TO CORRECT PROBLEM. ADDITIONAL EXAMS ARE REQUIRED.
	34-MS-1202 (FIG NO B-100)							
725300	A-1 COMPONENT SUPPORT	F-A F1-3	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-101.
725700	R-15 COMPONENT SUPPORT	F-C F3.00	VT-3 VT-4	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-164. ADDITIONAL EXAM DUE TO FAILURE OF 725250.

FEEDWATER SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	16-FW-1219 (FIG NO B-110)							
727500	R-1 COMPONENT SUPPORT	F-C F3.00	VT-3	NDE-5711-CC, 0	X	-	-	EXAM PERFORMED BY BGE AND NES PERSONNEL. SEE NDE REPORT 96-VT-1-93.

APPENDIX A

WELD IDENTIFICATION FIGURES - CLASS 1

APPENDIX A
WELD IDENTIFICATION FIGURES - CLASS 1

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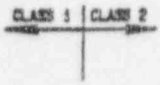
SYMBOLS FOR WELD IDENTIFICATION


ANCHOR


BRANCH CONNECTION


BUTT WELD



CLASS BOUNDARY

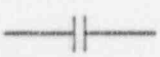

COMPONENT SUPPORT, NON-INTEGRAL


COMPONENT SUPPORT, WITH LUGS


COMPONENT SUPPORT, INTEGRAL

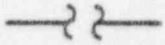

COUPLING


ELBOW

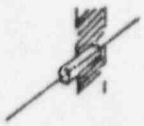

FLANGE

FLOW DIRECTION

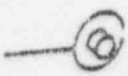

GRATING


LINE BREAK

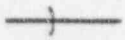
LINE CONTINUATION


PENETRATION

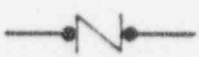

REDUCER


PUMP, SUCTION


PUMP, DISCHARGE


SOCKET WELD


TEE


VALVE, CHECK


VALVE, RELIEF


VALVE, OTHER

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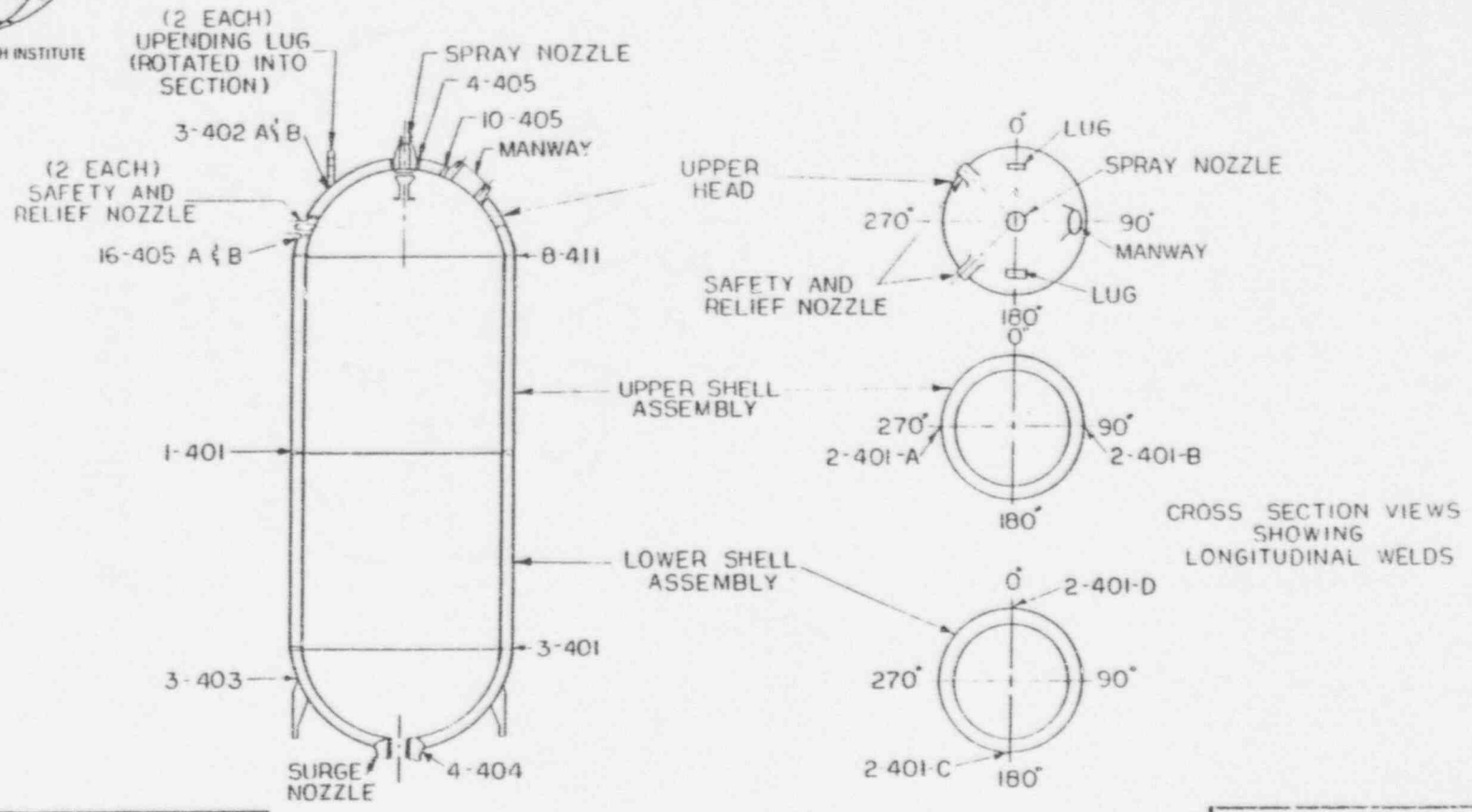

SwRI LINE No.	PRESSURIZER
BG&E LINE No.	N/A
NOM. O.D./SCH.	N/A
NOM. THICKNESS	4"
MATERIAL	CSCL
CAL. BLK.	SEE TBLS

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	N/A
REFERENCE DWG(s).	N/A
FIGURE	A-3
REV.	1 12-15-86

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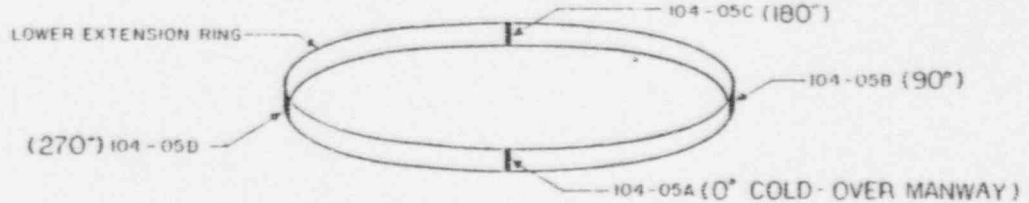

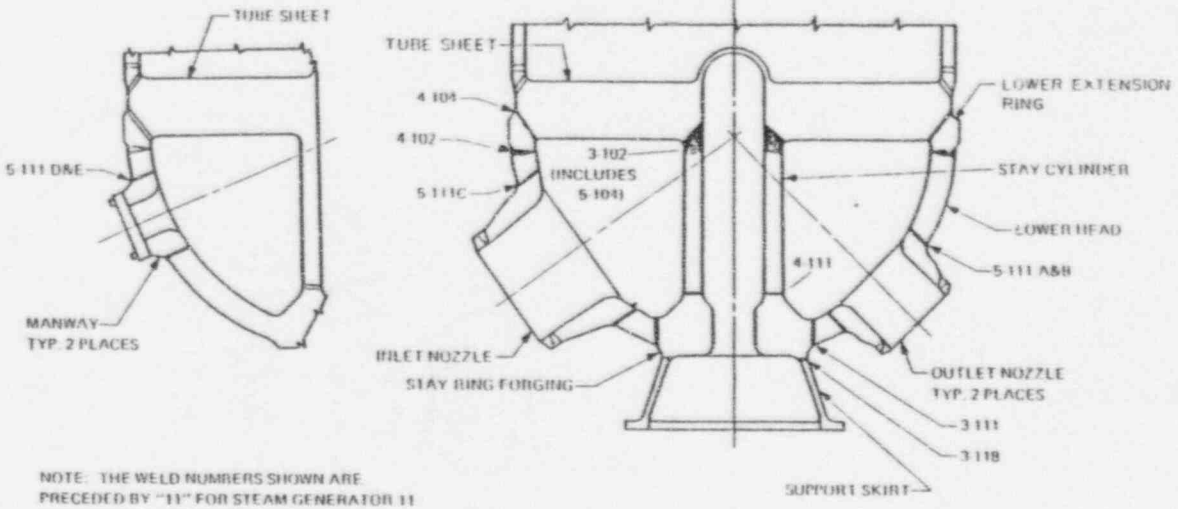

NOTE: THE WELD NUMBERS SHOWN ARE PRECEDED BY "11" FOR STEAM GENERATOR 11 AND "12" FOR STEAM GENERATOR 12.

SwRI LINE No.	S.G. TUBE SHEET & LOWER HEAD
BG&E LINE No.	N/A
NOM. O.D./SCH.	N/A
NOM. THICKNESS	7"
MATERIAL	CSCL
CAL. BLK.	CC-2, CC-33, CC-41

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	N/A
REFERENCE DWG(s).	N/A
FIGURE	A-4
REV.	1 12-15-86

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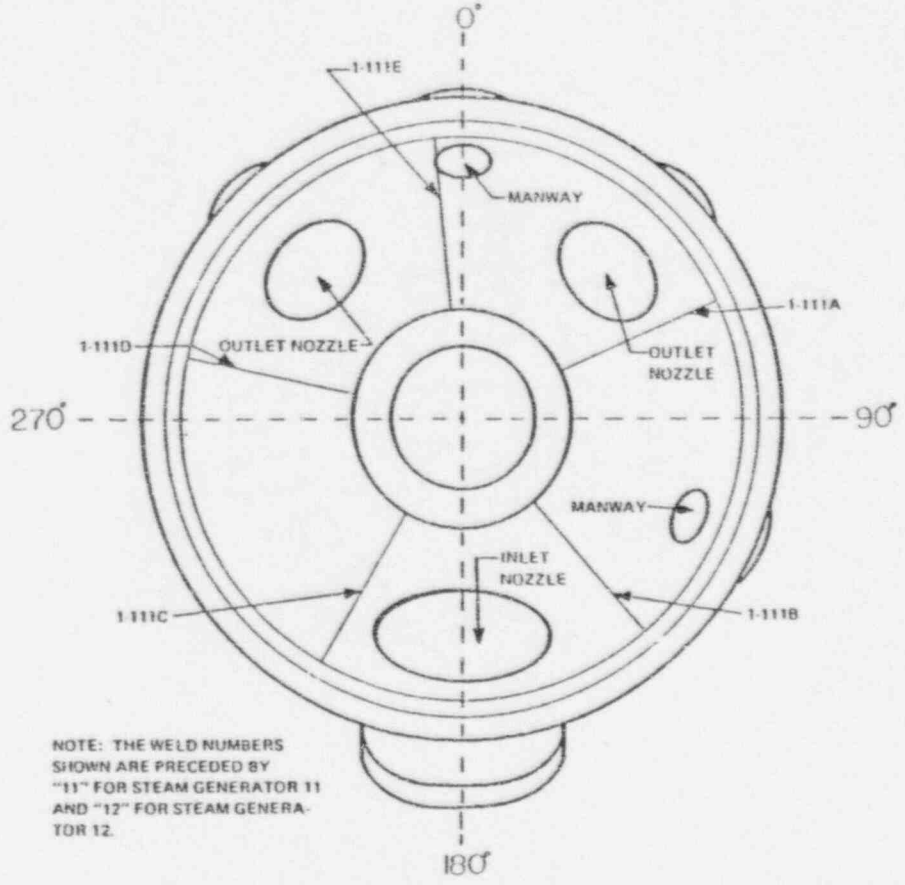

NOTE: THE WELD NUMBERS SHOWN ARE PRECEDED BY "11" FOR STEAM GENERATOR 11 AND "12" FOR STEAM GENERATOR 12.

SwRI LINE No.	S.G. NOS. 11&12 HIGH PRESSURE HEAD ASSEMBLY
BG&E LINE No.	N/A
NOM. O.D./SCH.	N/A
NOM. THICKNESS	7"
MATERIAL	CSCL
CAL. BLK.	CC-2, CC-33, CC-41

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	N/A
REFERENCE DWG(s).	N/A
FIGURE	A-5
REV.	1 12-15-86

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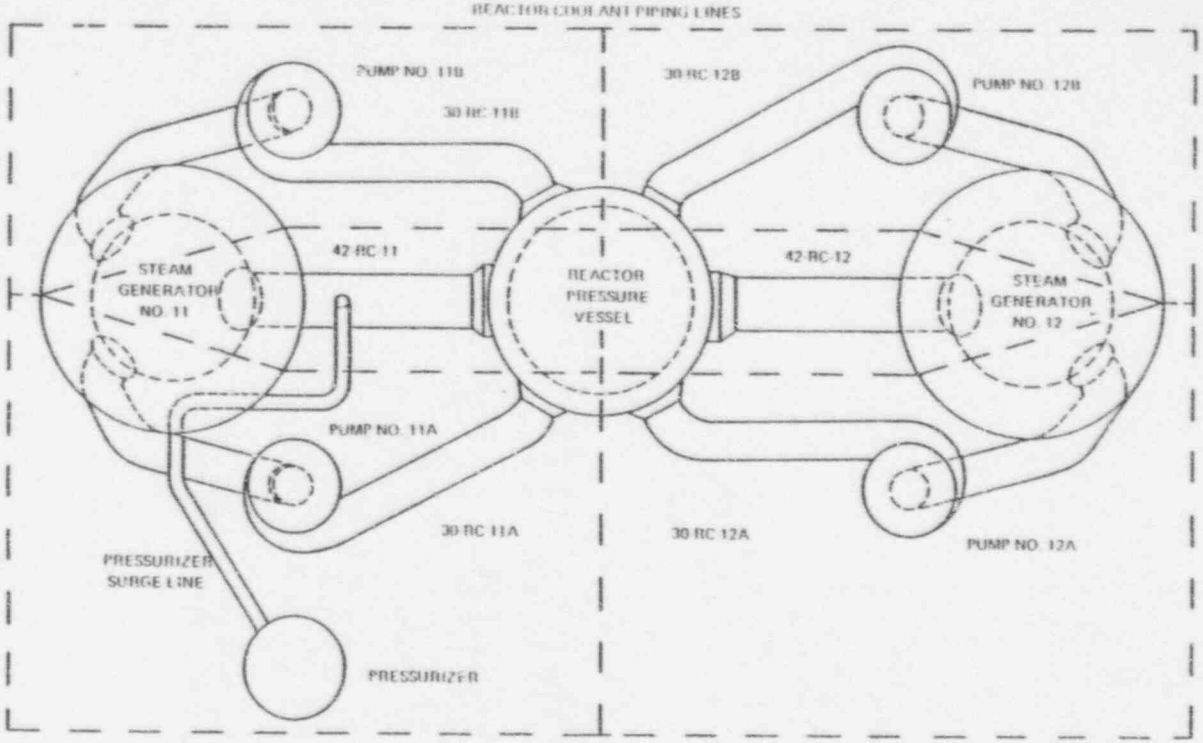

NOTE: SEE THE FOLLOWING SIX (6) PAGES FOR THE SECTIONAL DRAWINGS CONTAINING THE WELD IDENTIFICATION DETAILS.

SwRI LINE No.	REACTOR COOLANT SYSTEM LAYOUT
BG&E LINE No.	N/A
NOM. O.D./SCH.	42", 30"
NOM. THICKNESS	4.75", 3"
MATERIAL	CSCL
CAL. BLK.	SEE TBLS

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
PGID(s)	N/A
REFERENCE DWG(s).	N/A
FIGURE	A-6
REV.	1 12-15-86

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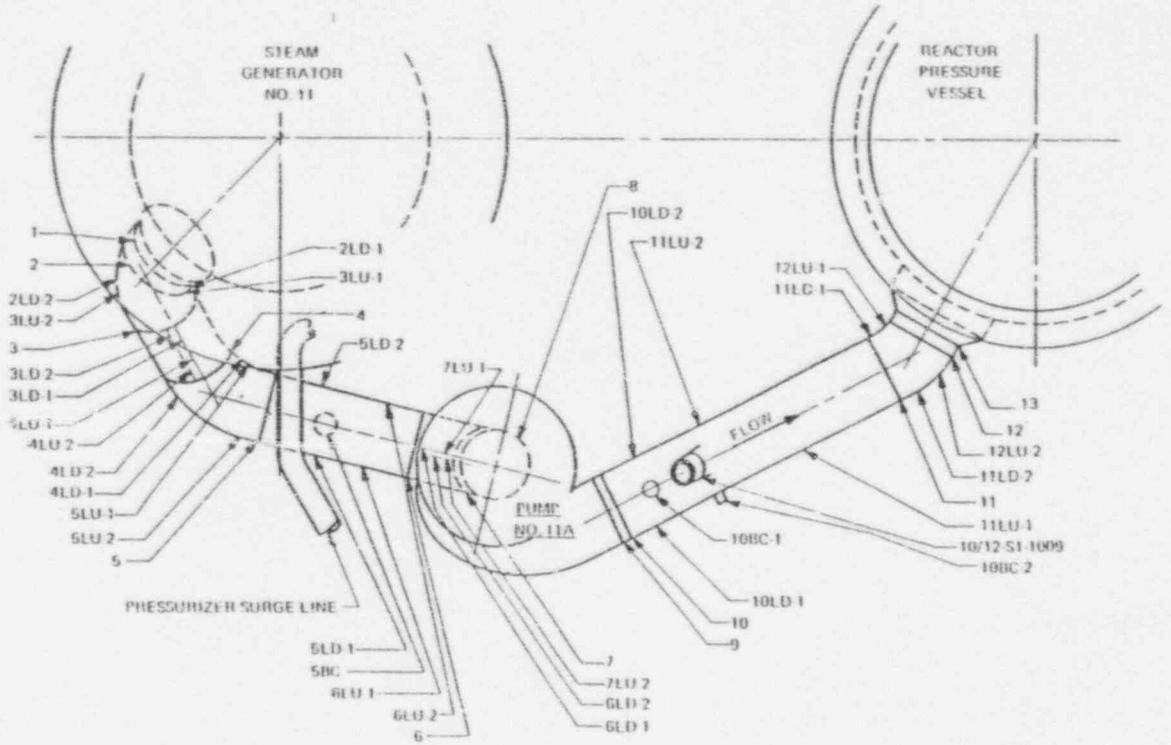

SwRI LINE No.	30 - RC - 11A
BG&E LINE No.	N / A
NOM. O.D./SCH.	30" / N/A
NOM. THICKNESS	3.000"
MATERIAL	CSCL
CAL. BLK.	CC - 7

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M - 72
REFERENCE DWG(s).	N / A
FIGURE	A - 8
REV.	2 12-15-86

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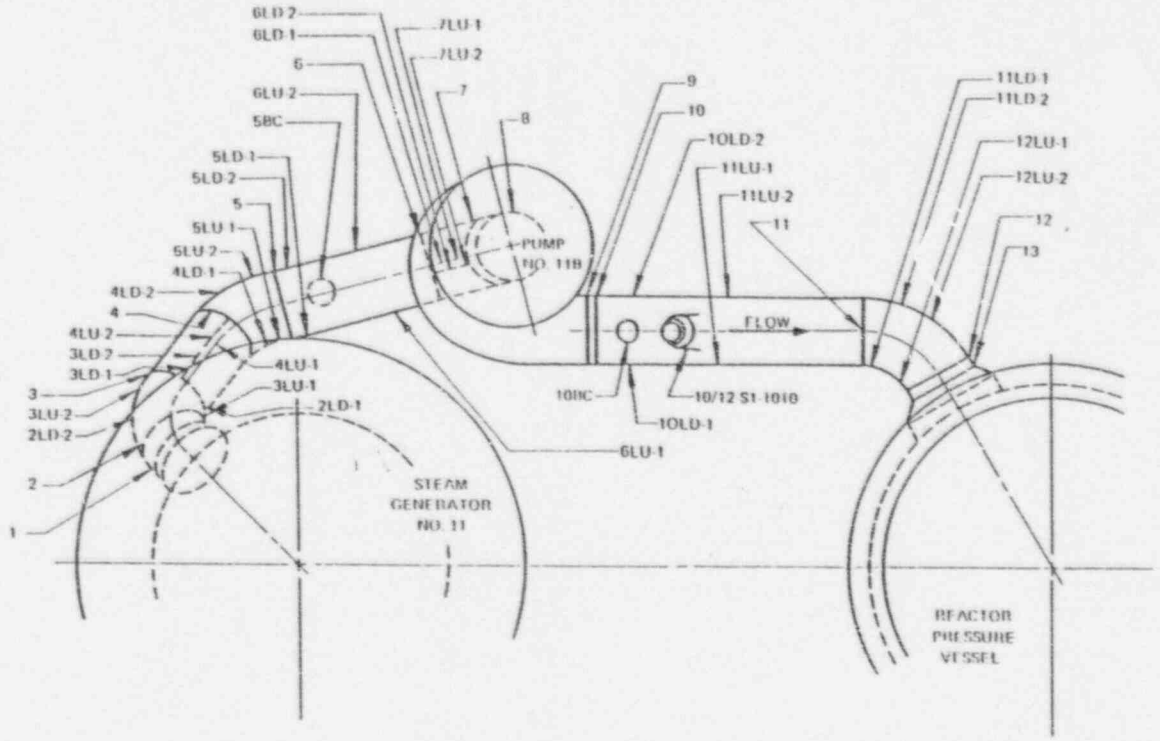

SwRI LINE No.	30-RC-11B
BG&E LINE No.	N/A
NOM. O.D./SCH.	30" / N/A
NOM. THICKNESS	3.000"
MATERIAL	CSCL
CAL. BLK.	CC-7

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-72
REFERENCE DWG(s).	N/A
FIGURE	A-9
REV.	2 12-15-86

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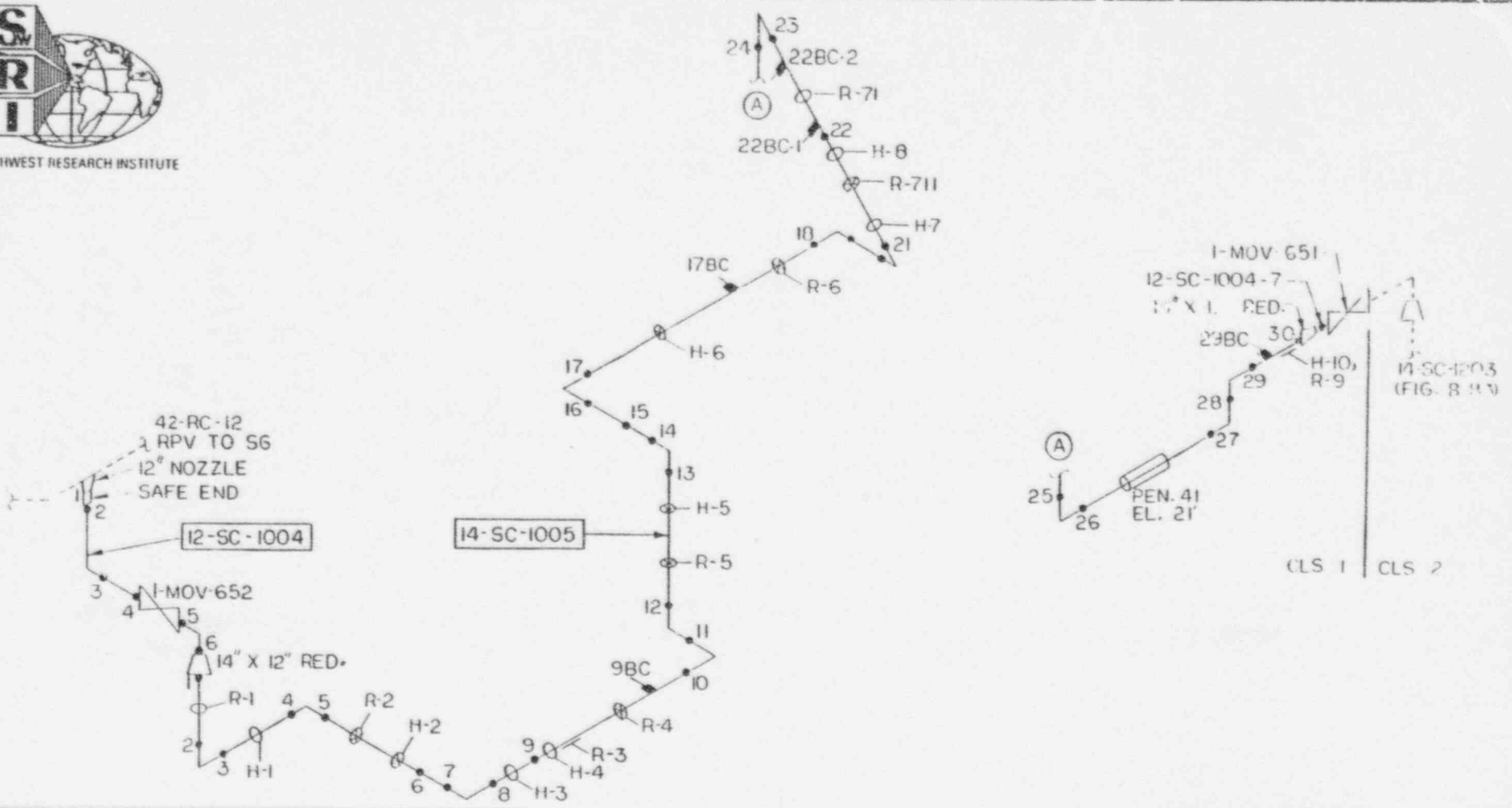

SwRI LINE No.	14-SC-1005	12-SC-1004
BG&E LINE No.	14-CC14-1004	12-CC14-1004
NOM. O.D./SCH.	14"/40	12"/40
NOM. THICKNESS	1.25	1.125
MATERIAL	SS	SS
CAL. BLK.	CC-60	CC-59

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-72, M-74(SH 2)
REFERENCE DWG(s).	SKM-612, 665
FIGURE	A-14
REV. 4	12-2-87

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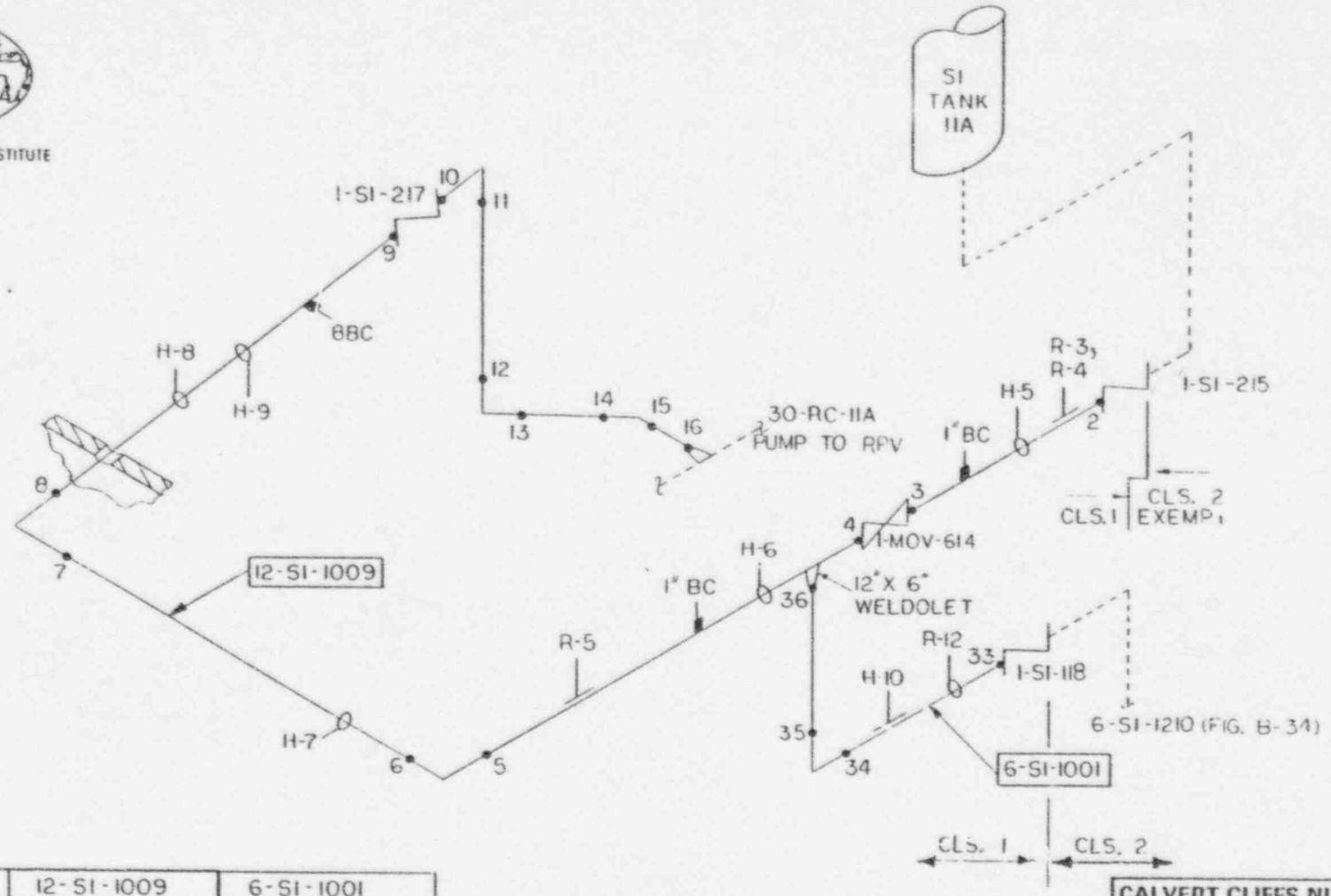

SwRI LINE No.	12-SI-1009	6-SI-1001
BASE LINE No.	12-CC4-1009 12-CC13-1009	6-CC4-1001
NOM. O.D./SCH.	12"/140	6"/120
NOM. THICKNESS	1.125"	0.562"
MATERIAL	SS	SS
CAL. BLK.	CC-59	CC-16

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74 (SH. 2)
REFERENCE DWG(s).	1-22-14
FIGURE	A-15
REV.	4 12-2-87

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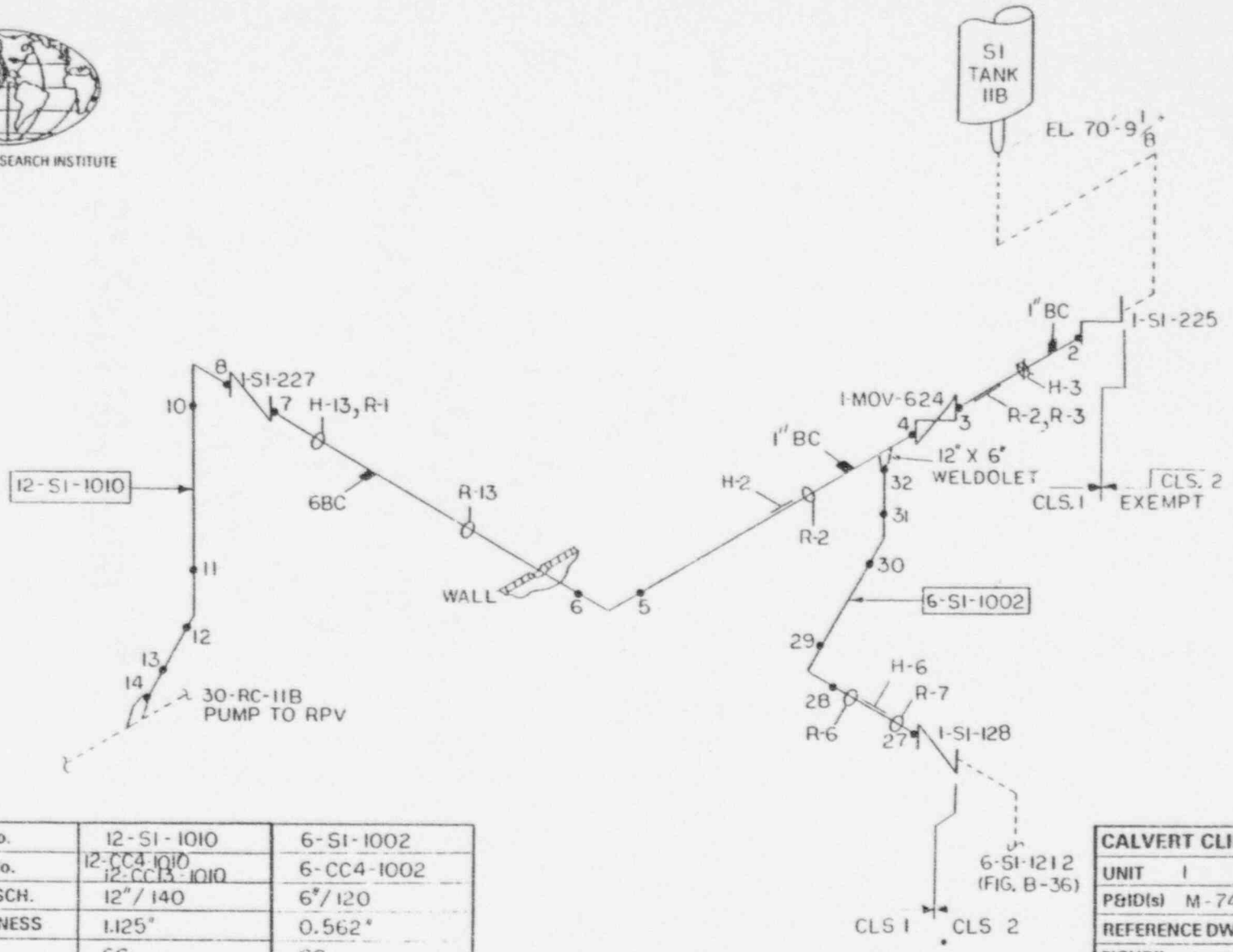
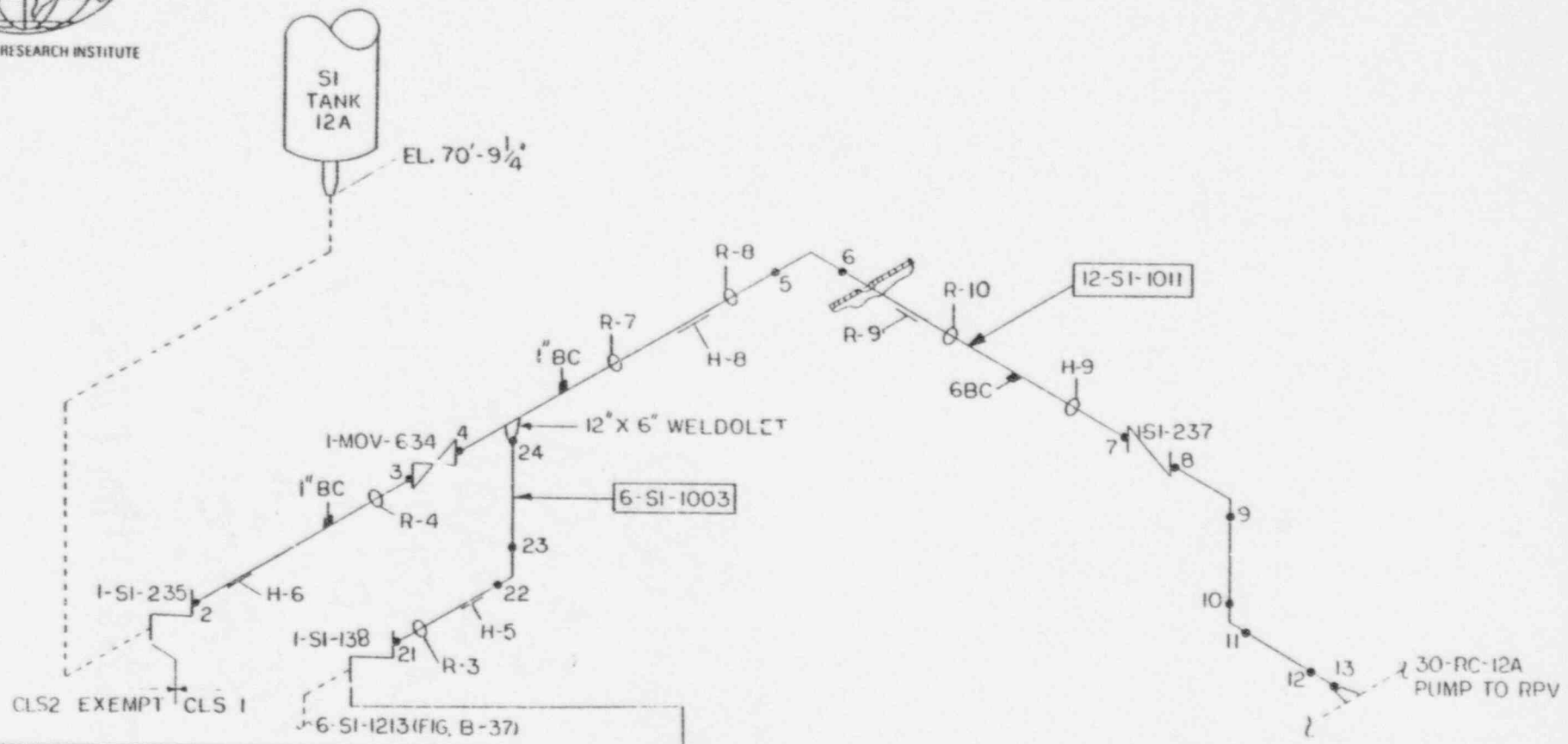


SwRI LINE No.	12-SI-1010	6-SI-1002
BG&E LINE No.	12-CC4-1010 12-CC13-1010	6-CC4-1002
NOM. O.D./SCH.	12"/140	6"/120
NOM. THICKNESS	1.125"	0.562"
MATERIAL	SS	SS
CAL. BLK.	CC-59	CC-16

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74 (SH. 2)
REFERENCE DWG(s).	1-22-18
FIGURE	A-16
REV.	4 12-2-87

SOUTHWEST RESEARCH INSTITUTE

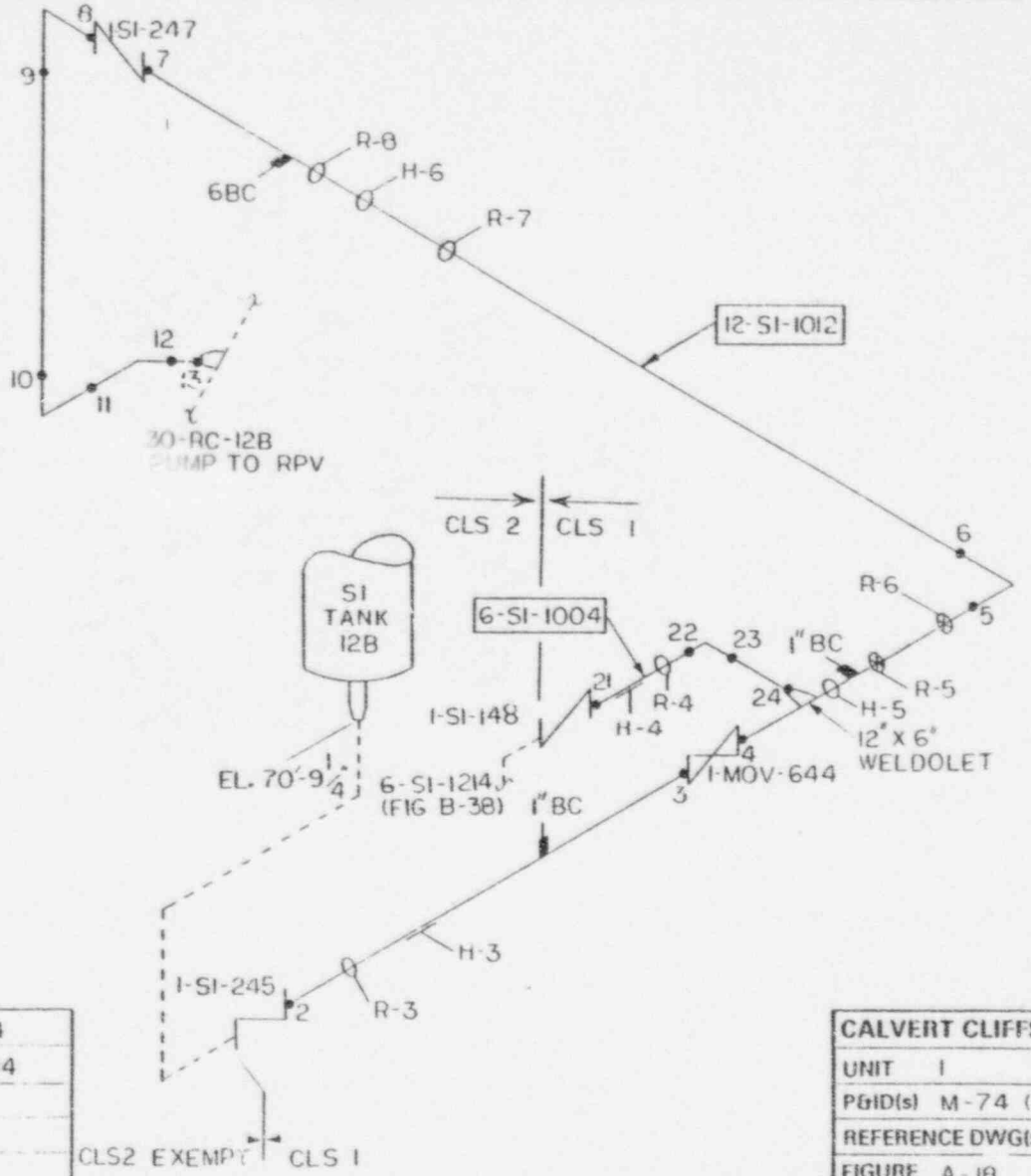


SwRI LINE No.	12-SI-1011	6-SI-1003
BG&E LINE No.	12-CC4-1011 12-CC13-1011	6-CC4-1003
NOM. O.D./SCH.	12"/140	6"/120
NOM. THICKNESS	1.125"	0.562"
MATERIAL	SS	SS
CAL. BLK.	CC-59	CC-16

CLS 2 | CLS 1

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74 (SH. 2)
REFERENCE DWG(s).	1-23-15
FIGURE	A-17
REV.	4 12-2-87

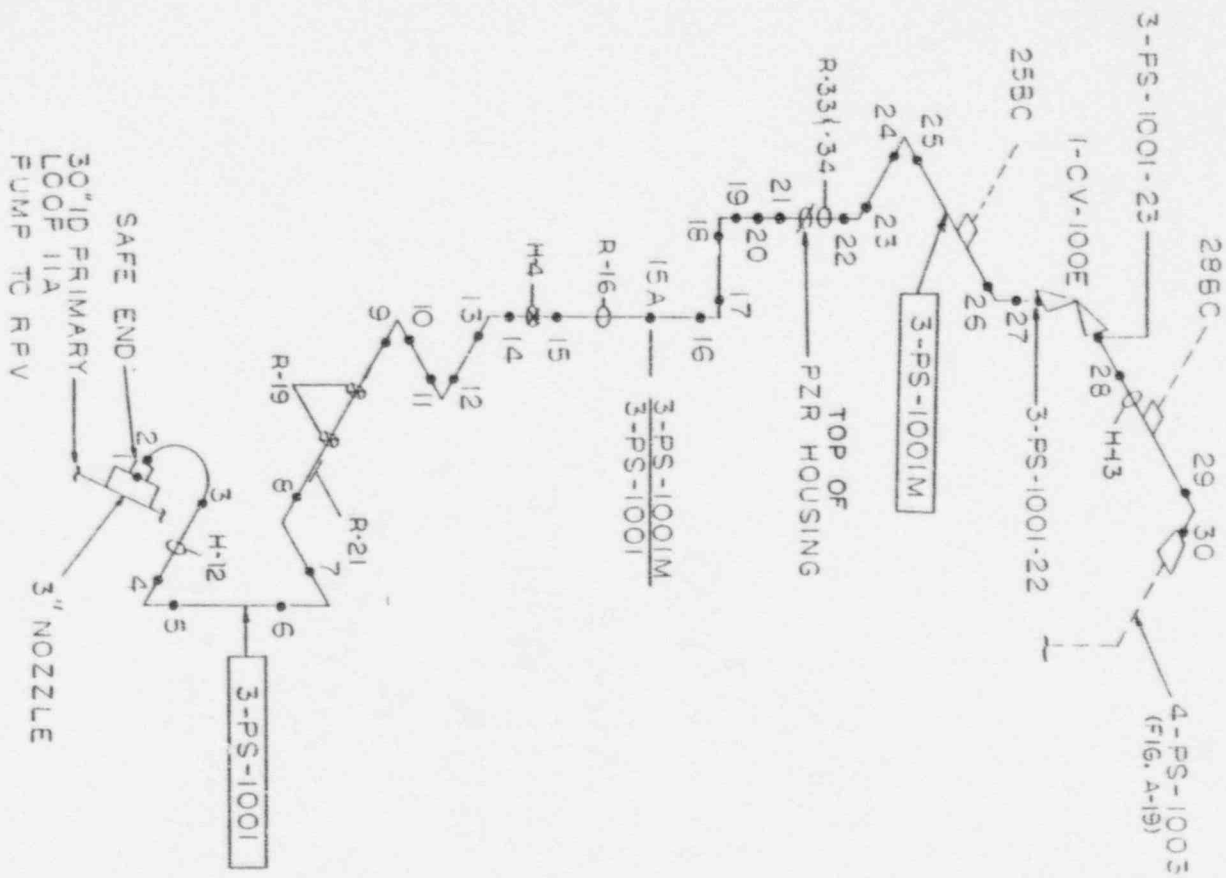
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	12-SI-1012	6-SI-1004
BG&E LINE No.	12-CC4-1012 12-CC13-1012	6-CC4-1004
NOM. O.D./SCH.	12" / 140	6"/120
NOM. THICKNESS	1.125"	0.562"
MATERIAL	SS	SS
CAL. BLK.	CC-59	CC-16

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74 (SH. 2)
REFERENCE DWG(s).	1-23-16
FIGURE	A-18
REV.	4 12-2-87

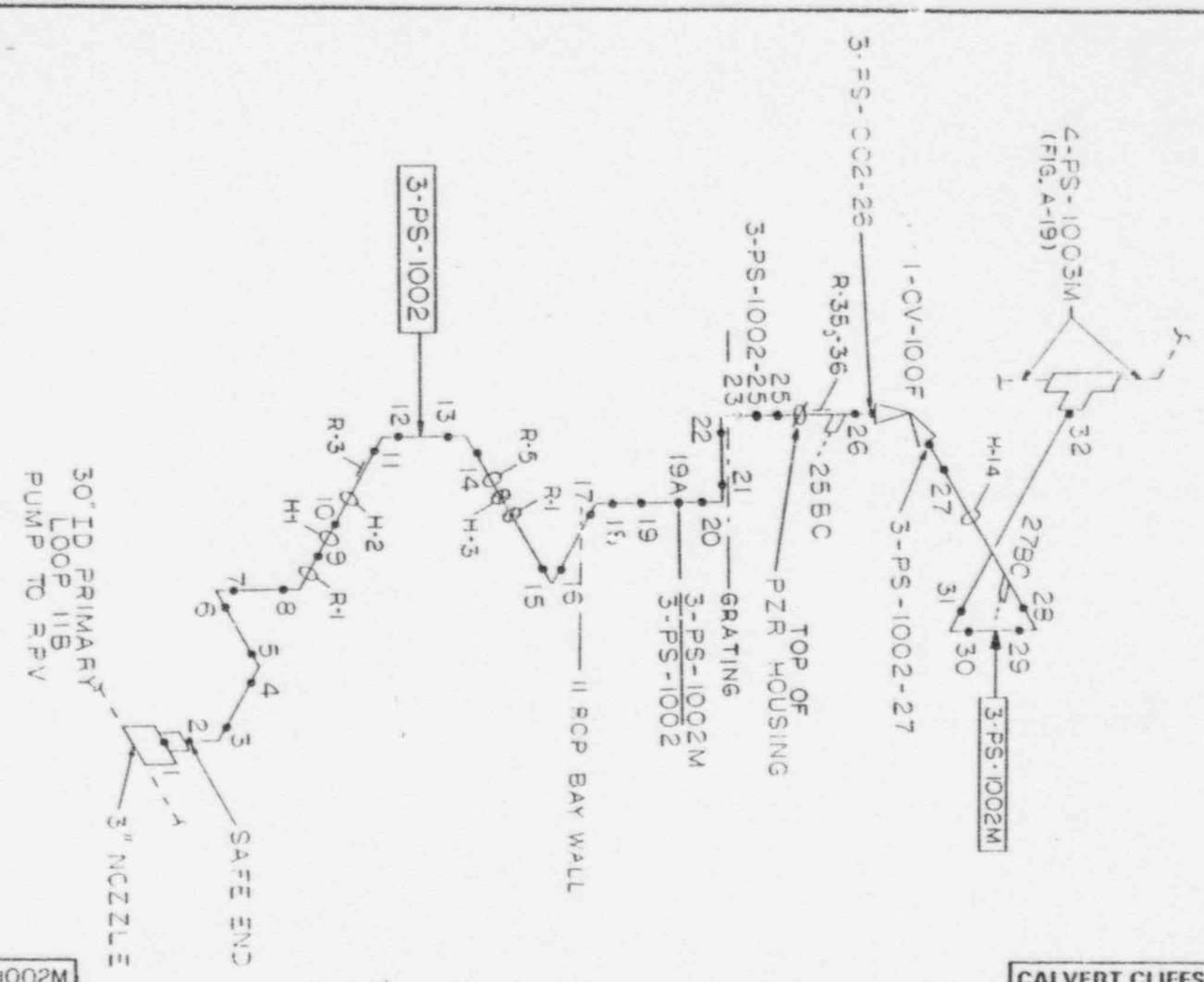
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	3-PS-1001	3-PS-1001M
BG&E LINE No.	3-CCII-1001	3-CCII-1001M
NOM. O.D./SCH.	3"	3"
NOM. THICKNESS	0.438"	0.438"
MATERIAL	SS	SS
CAL. BLK.	CC-14	CC-14

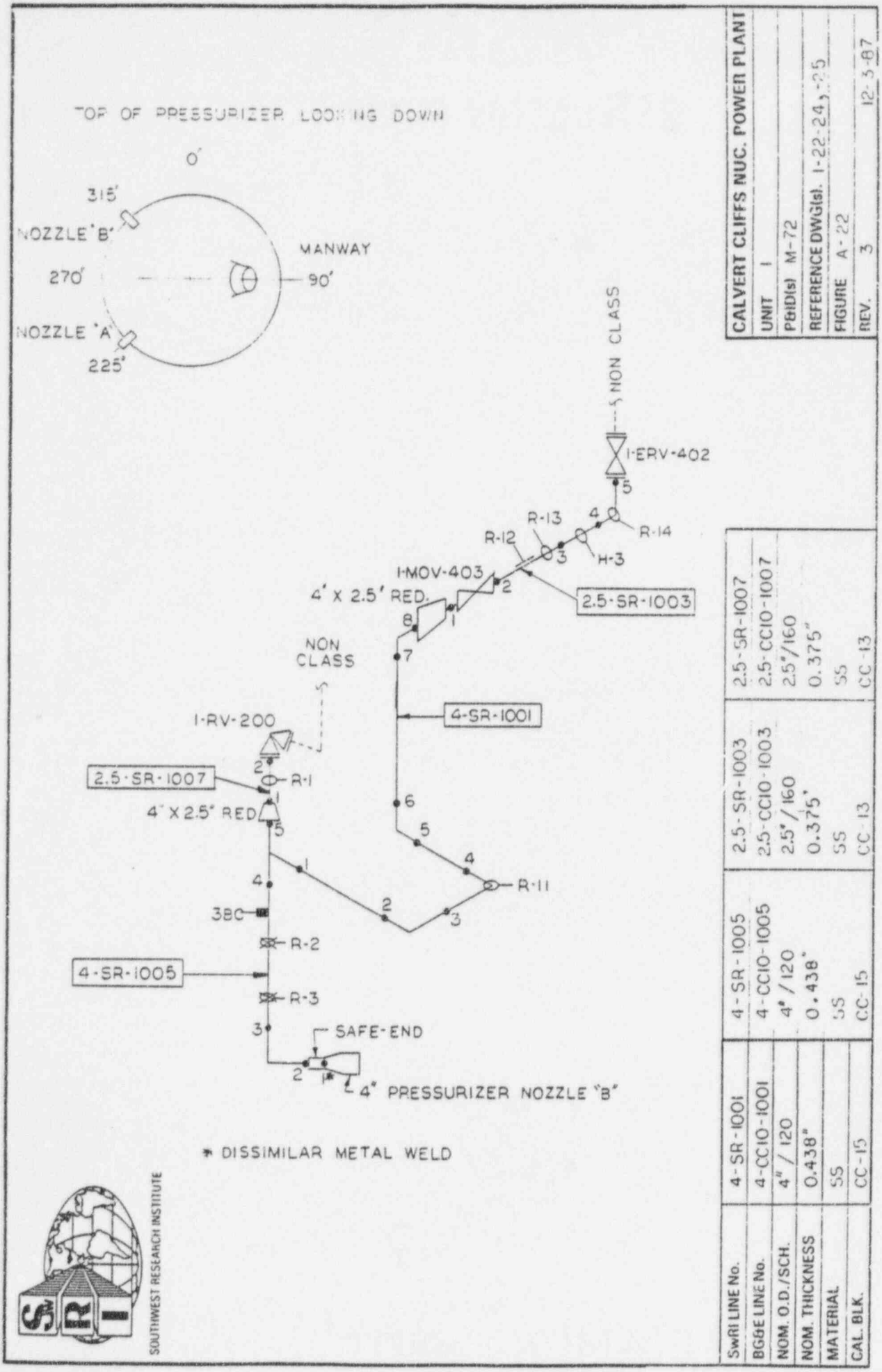
CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-72
REFERENCE DWG(s).	SKM 610
FIGURE	A-20
REV.	6 12-3-87

SOUTHWEST RESEARCH INSTITUTE

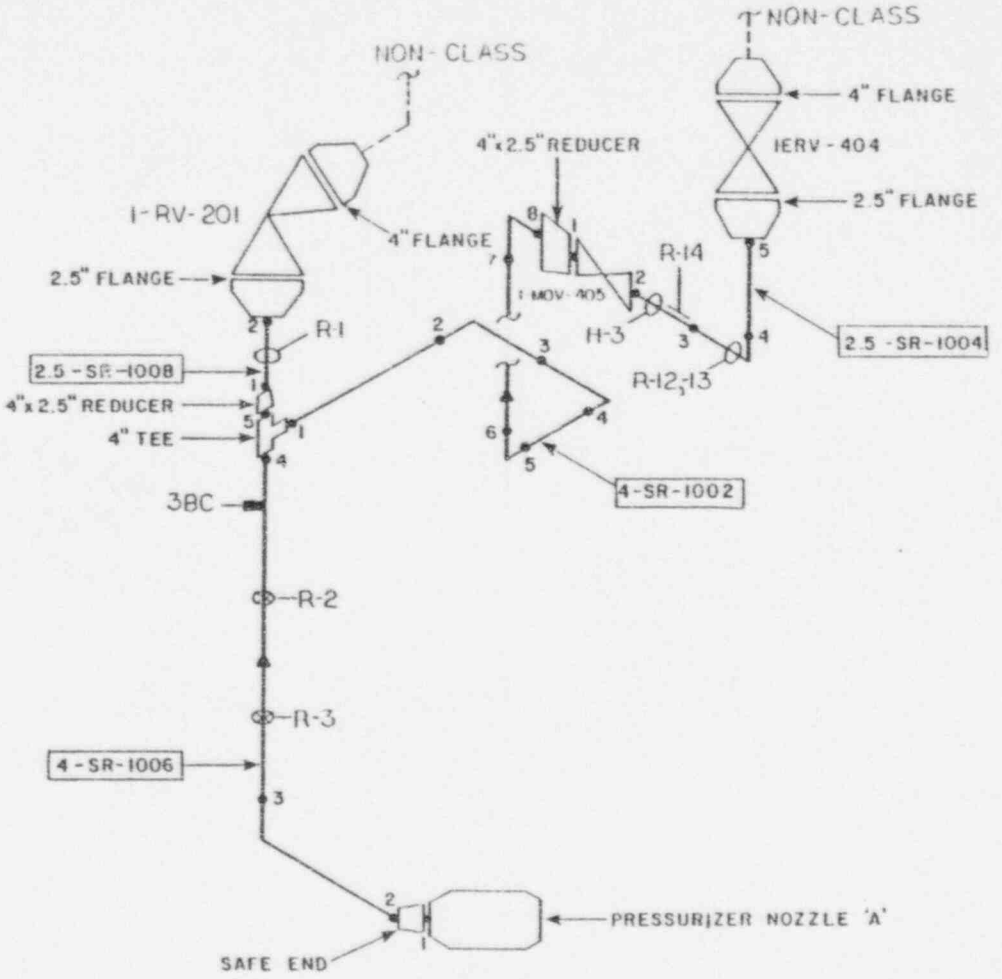


SwRI LINE No.	3-PS-1002,-1002M
BG&E LINE No.	3-CCII-1002,-1002M
NOM. O.D./SCH.	3"
NOM. THICKNESS	0.438"
MATERIAL	SS
CAL. BLK.	CC-14

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	I	
P&ID(s)	M-72	
REFERENCE DWG(s).	SKM-610	
FIGURE	A-21	
REV.	6	12-3-87


TOP OF PRESSURIZER LOOKING DOWN
0°
315°
NOZZLE "B"
MANWAY
270°
90°
NOZZLE "A"
225°
NON CLASS
1-ERV-402
R-13
R-14
R-12
H-3
1-MOV-403
4" X 2.5" RED.
2.5-SR-1003
NON CLASS
4-SR-1001
1-RV-200
2.5-SR-1007
R-1
4" X 2.5" RED
R-11
3BC
R-2
4-SR-1005
R-3
SAFE-END
4" PRESSURIZER NOZZLE "B"
* DISSIMILAR METAL WELD
SOUTHWEST RESEARCH INSTITUTE
SwRI LINE No. 4-SR-1001
BG&E LINE No. 4-CC10-1001
NOM. O.D./SCH. 4" / 120
NOM. THICKNESS 0.438"
MATERIAL SS
CAL. BLK. CC-15
4-SR-1005
4-CC10-1005
4" / 120
0.438"
SS
CC-15
2.5-SR-1003
2.5-CC10-1003
2.5" / 160
0.375"
SS
CC-13
2.5-SR-1007
2.5-CC10-1007
2.5"/160
0.375"
SS
CC-13
CALVERT CLIFFS NUC. POWER PLANT
UNIT 1
P&ID(s) M-72
REFERENCE DWG(s). 1-22-24, -25
FIGURE A-22
REV. 3
12-3-87

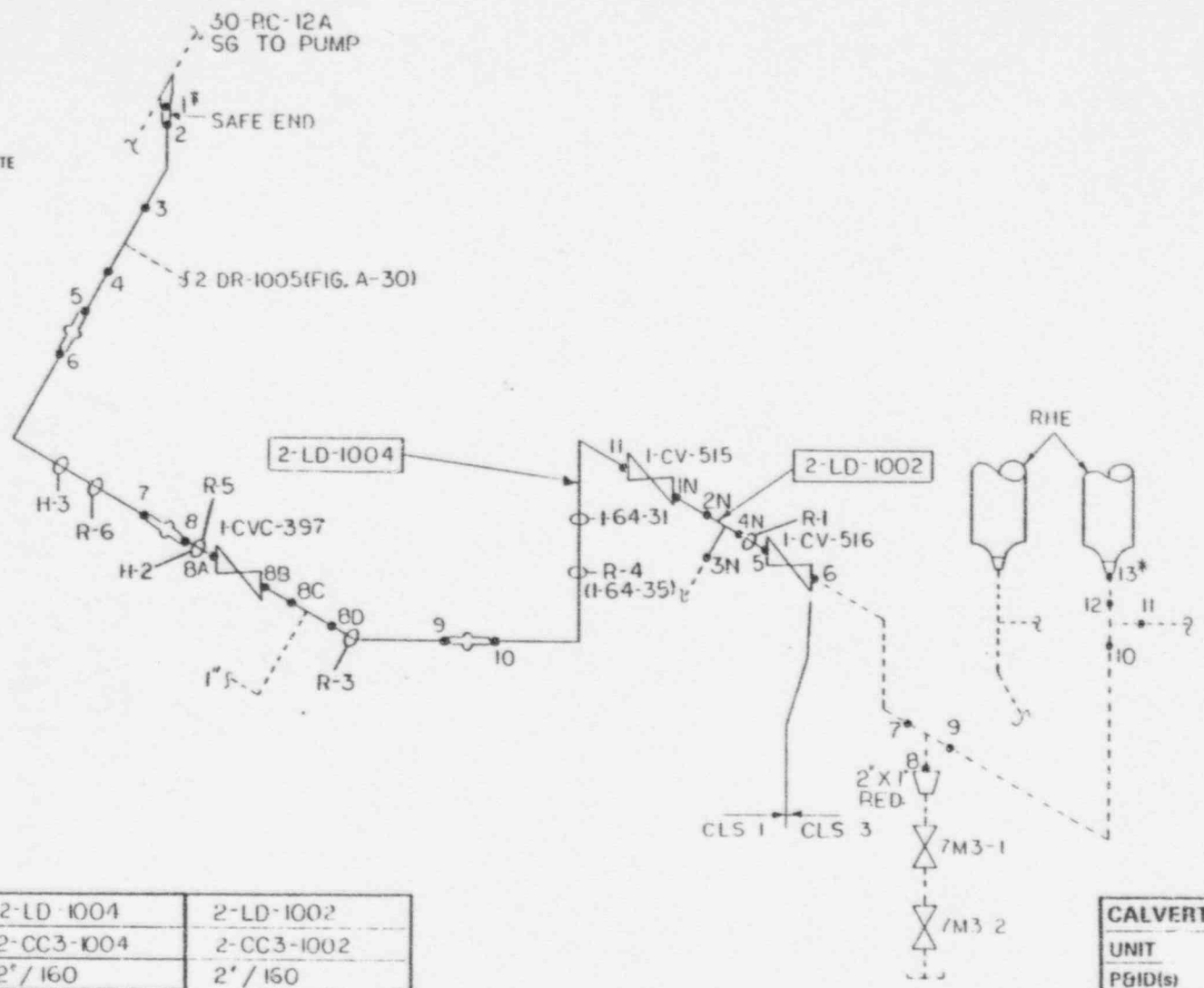
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	4-SR-1002	4-SR-1006	2.5-SR-1004	2.5-SR-1008
BG&E LINE No.	4-CC10-1002	4-CC10-1006	2.5-CC10-1004	2.5-CC10-1008
NOM. O.D./SCH.	4"	4"	2.5"	2.5"
NOM. THICKNESS	0.438"	0.438"	0.375"	0.375"
MATERIAL	SS	SS	SS	SS
CAL. BLK.	CC-15	CC-15	CC-13	CC-13

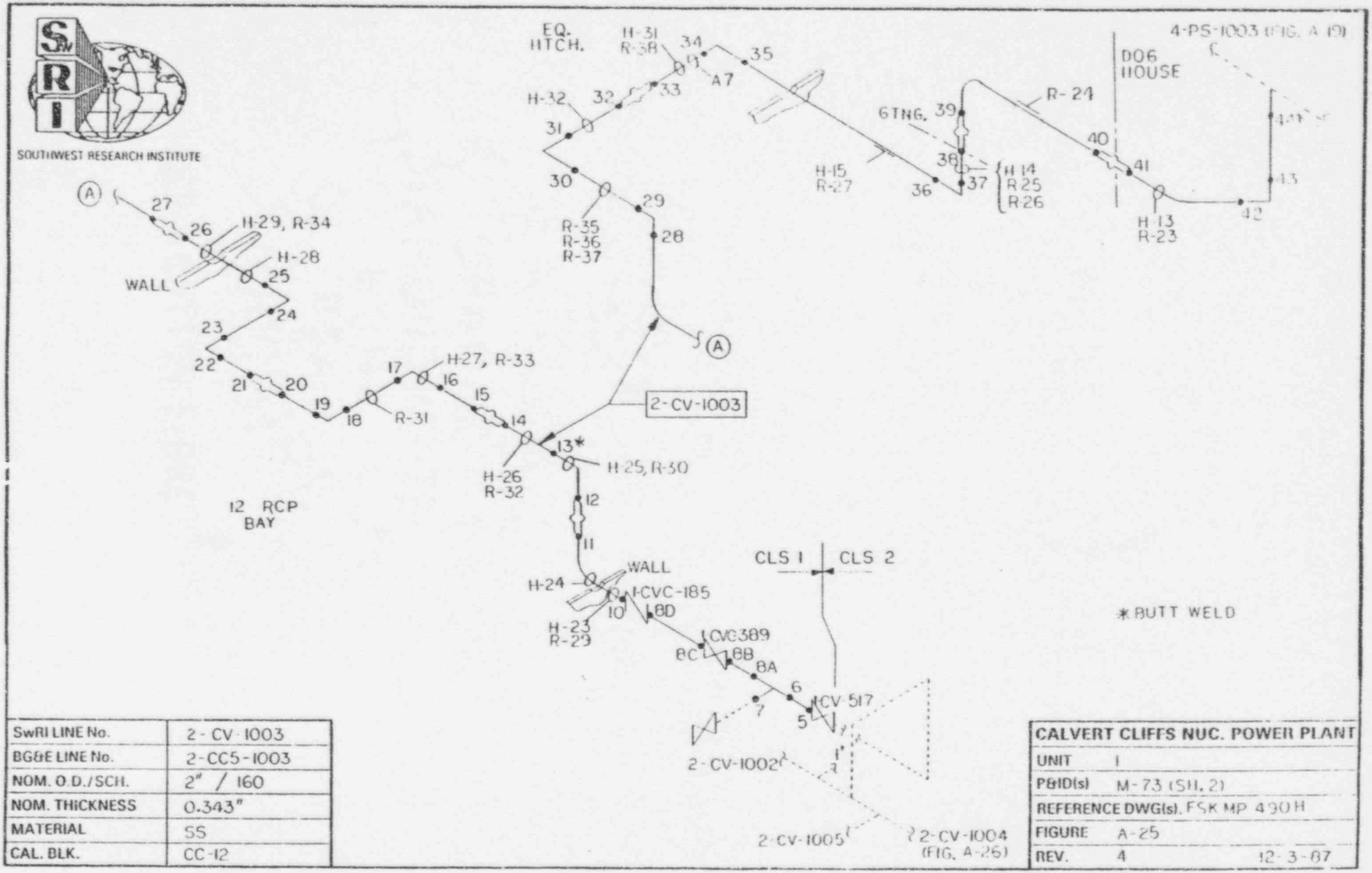
CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-72
REFERENCE DWG(s).	SKM 609 (SH. 1)
FIGURE	A-23
REV.	4 12-2-87

SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	2-LD-1004	2-LD-1002
BG&E LINE No.	2-CC3-1004	2-CC3-1002
NOM. O.D./SCH.	2" / 160	2" / 160
NOM. THICKNESS	0.343"	0.343"
MATERIAL	SS	SS
CAL. BLK.	CC 12	CC 12

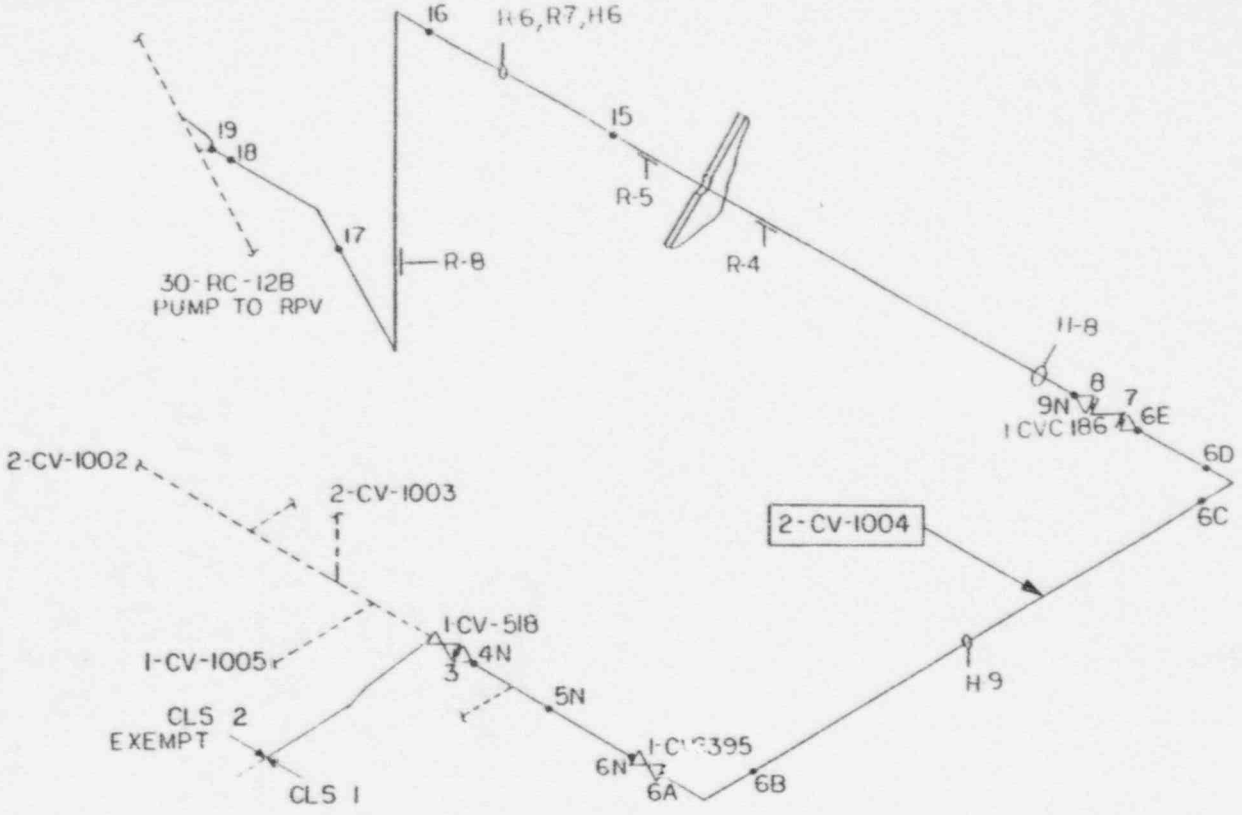
CALVERT CLIFFS NUC. POWER PLANT	
UNIT	
PGID(s)	(SH. 2)
REFERENCE	[illegible] KMP 454, -456
FIGURE	A 24
REV.	3 12-3-87



SwRI LINE No.	2-CV-1003
BG&E LINE No.	2-CC5-1003
NOM. O.D./SCH.	2" / 160
NOM. THICKNESS	0.343"
MATERIAL	SS
CAL. BLK.	CC-12

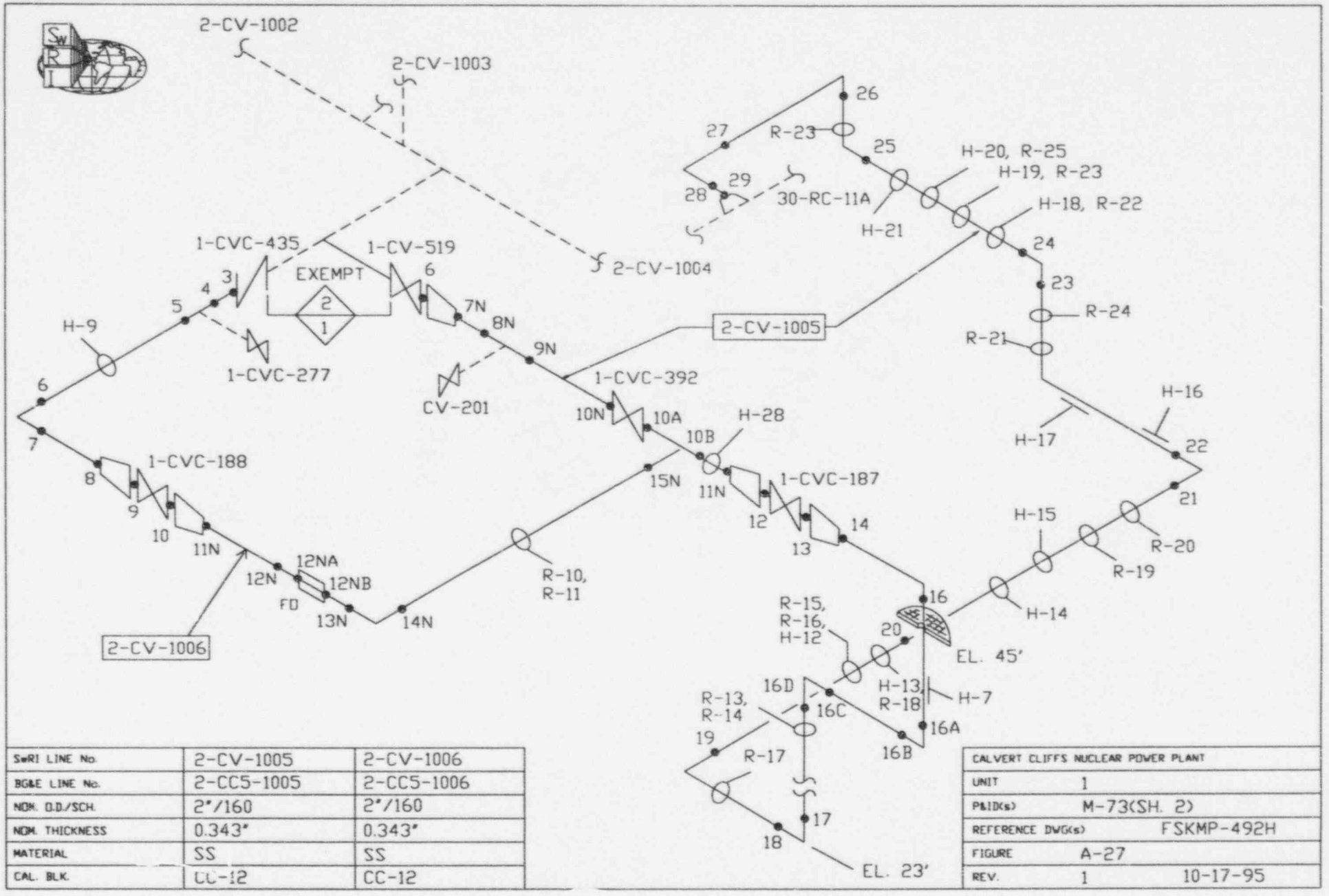
CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-73 (SH. 2)	
REFERENCE DWG(s).	FSK MP 490H	
FIGURE	A-25	
REV.	4	12-3-87

SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	2-CV-1004
BG&E LINE No.	2-CCS-1004
NOM. O.D./SCH.	2"/ 160
NOM. THICKNESS	0.343"
MATERIAL	SS
CAL. BLK.	CC-12

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-73 (SH. 2)
REFERENCE DWG(s).	FSK MP 401 H
FIGURE	A-26
REV.	4 12-4-87

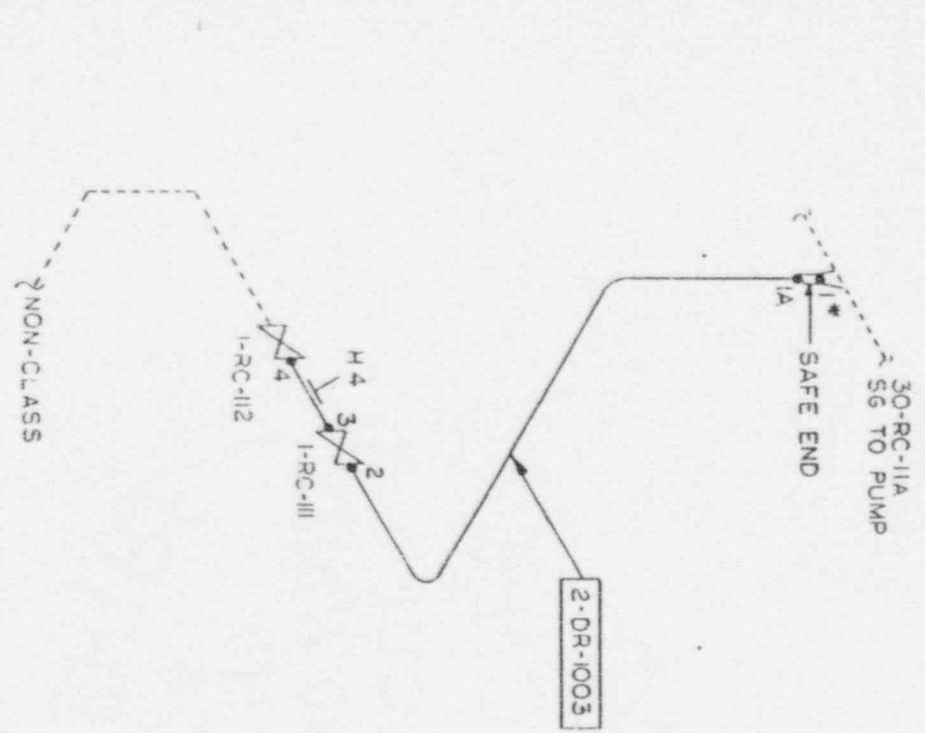


SwRI LINE No.	2-CV-1005	2-CV-1006
BG&E LINE No.	2-CCS-1005	2-CCS-1006
NOM. O.D./SCH.	2"/160	2"/160
NOM. THICKNESS	0.343"	0.343"
MATERIAL	SS	SS
CAL. BLK.	CC-12	CC-12

CALVERT CLIFFS NUCLEAR POWER PLANT		
UNIT	1	
P&ID(s)	M-73(SH. 2)	
REFERENCE DWG(s)	FSKMP-492H	
FIGURE	A-27	
REV.	1	10-17-95

A-27

SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	2-DR-1003
BG&E LINE No.	2-CC9-1003
NOM. O.D./SCH.	2"/ 160
NOM. THICKNESS	0.343"
MATERIAL	SS
CAL. BLK.	CC-12

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-72	
REFERENCE DWG(s).	FSK-575	
FIGURE	A-28	
REV.	3	12-3-87

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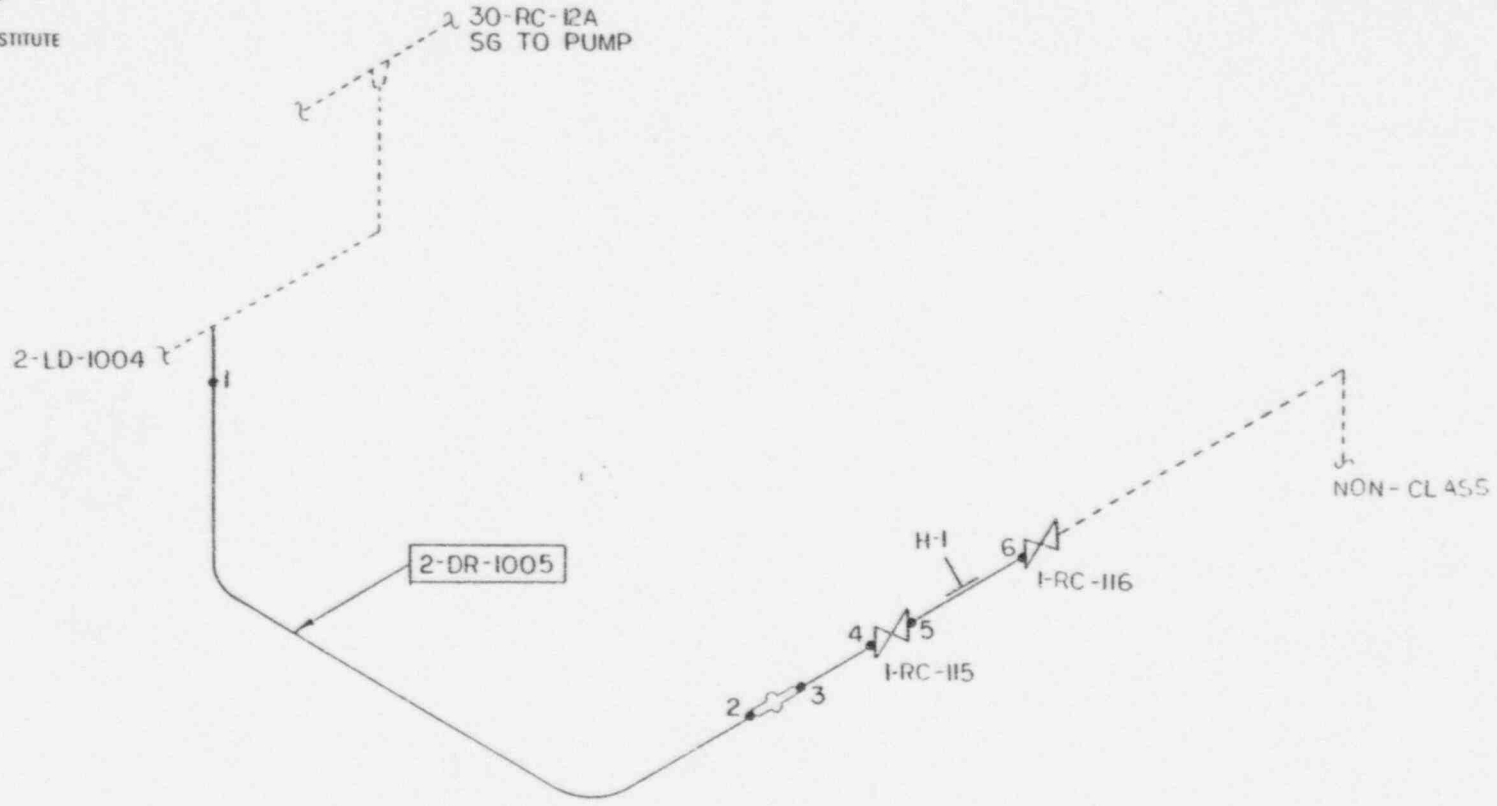
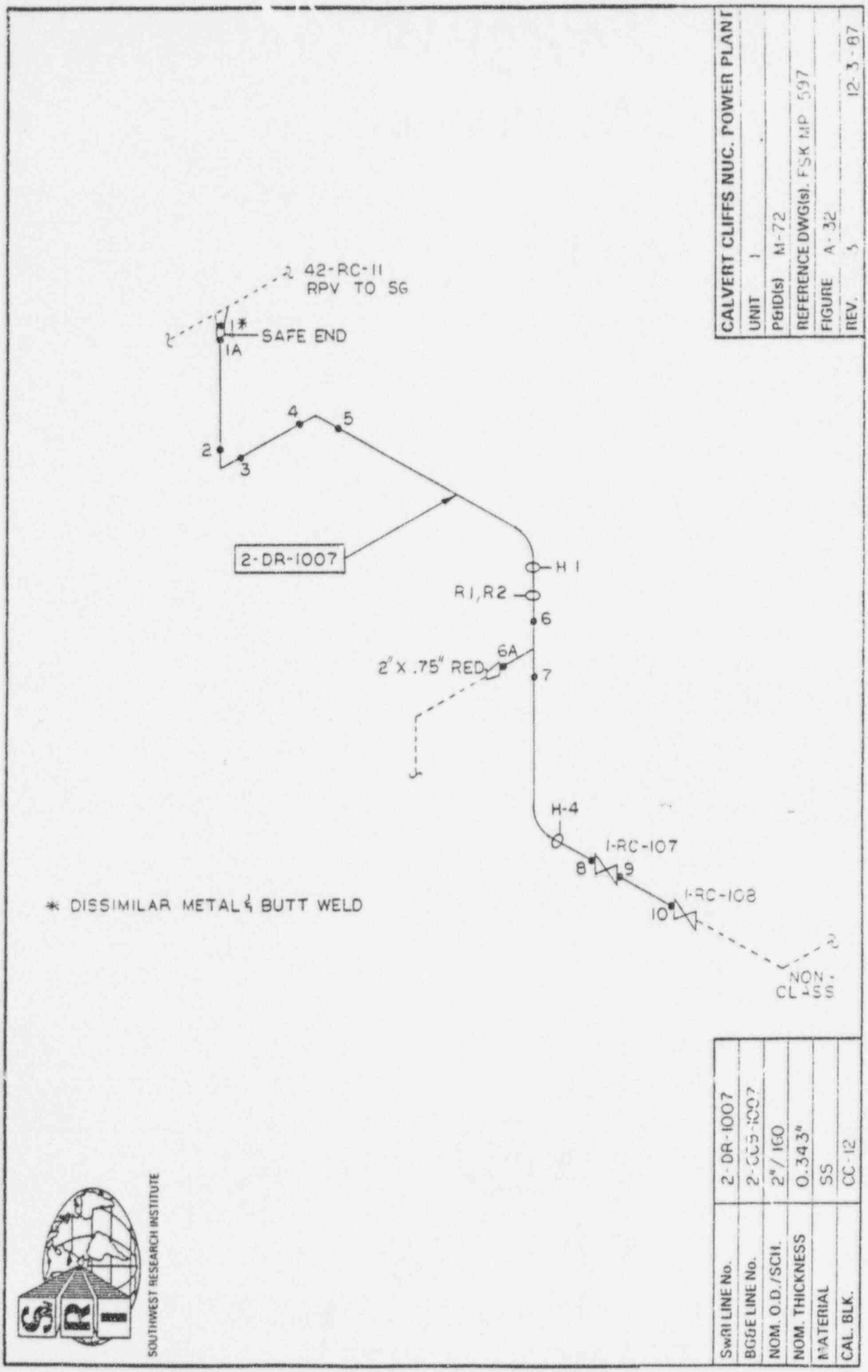
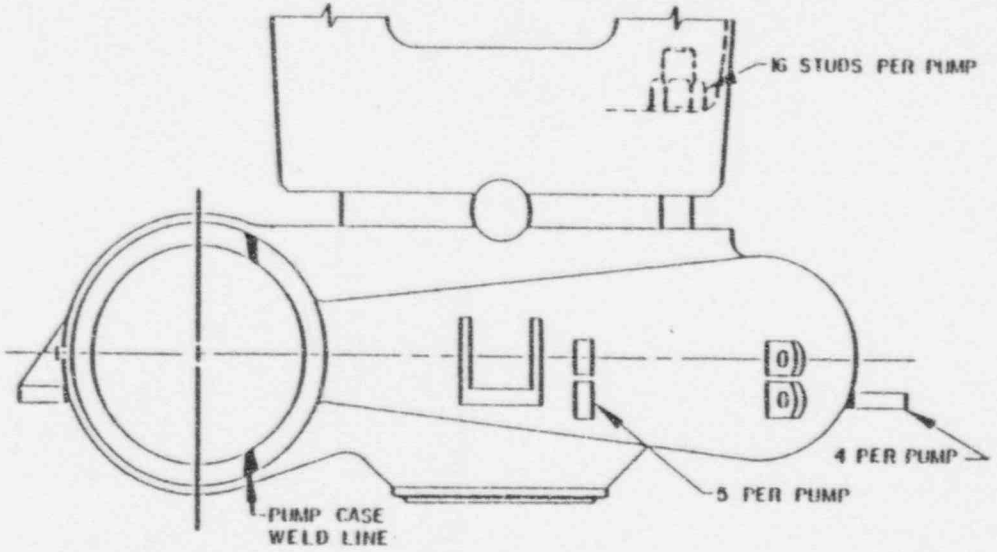


SwRI LINE No.	2-DR-1005
BG&E LINE No.	2-CC9-1005
NOM. O.D./SCH.	2" / 160
NOM. THICKNESS	0.343"
MATERIAL	SS
CAL. BLK.	CC-12

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-72
REFERENCE DWG(s).	FSK-576
FIGURE	A-30
REV.	3 12-3-87


CALVERT CLIFFS NUC. POWER PLANT
UNIT 1
P&ID(s) M-72
REFERENCE DWG(s). FSK MP 597
FIGURE A-32
REV. 5
12-3-87
42-RC-11
RPV TO SG
1*
SAFE END
1A
2
3
4
5
2-DR-1007
H 1
R1,R2
6
6A
2" X .75" RED
7
H-4
1-RC-107
8
9
1-RC-108
10
NON CLASS
* DISSIMILAR METAL & BUTT WELD
SwRI LINE No. 2-DR-1007
BG&E LINE No. 2-609-1207
NOM. O.D./SCH. 2"/160
NOM. THICKNESS 0.343"
MATERIAL SS
CAL. BLK. CC-12
SOUTHWEST RESEARCH INSTITUTE

SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	REACTOR COOLANT PUMP BODY (TYP.)
BG&E LINE No.	N/A
NOM. O.D./SCH.	N/A
NOM. THICKNESS	N/A
MATERIAL	N/A
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	N/A
REFERENCE DWG(s).	N/A
FIGURE	A-33
REV.	1 12-15-86

APPENDIX B
WELD IDENTIFICATION FIGURES - CLASS 2

APPENDIX B
WELD IDENTIFICATION FIGURES - CLASS 2

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APPENDIX B
WELD IDENTIFICATION FIGURES - CLASS 2

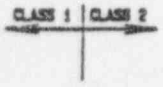
Table of Contents (Cont'd)

SYMBOLS FOR WELD IDENTIFICATION

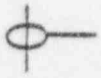

ANCHOR

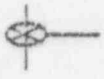

BRANCH CONNECTION


BUTT WELD



CLASS BOUNDARY

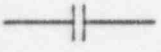

COMPONENT SUPPORT, NON-INTEGRAL


COMPONENT SUPPORT, WITH LUGS


COMPONENT SUPPORT, INTEGRAL

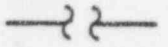

COUPLING

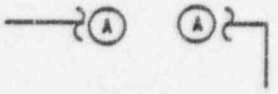

ELBOW


FLANGE

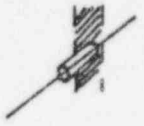
FLOW DIRECTION


GRATING


LINE BREAK



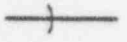
LINE CONTINUATION

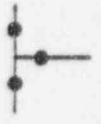

PENETRATION

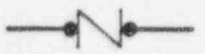

REDUCER


PUMP, SUCTION


PUMP, DISCHARGE


SOCKET WELD


TEE


VALVE, CHECK


VALVE, RELIEF


VALVE, OTHER

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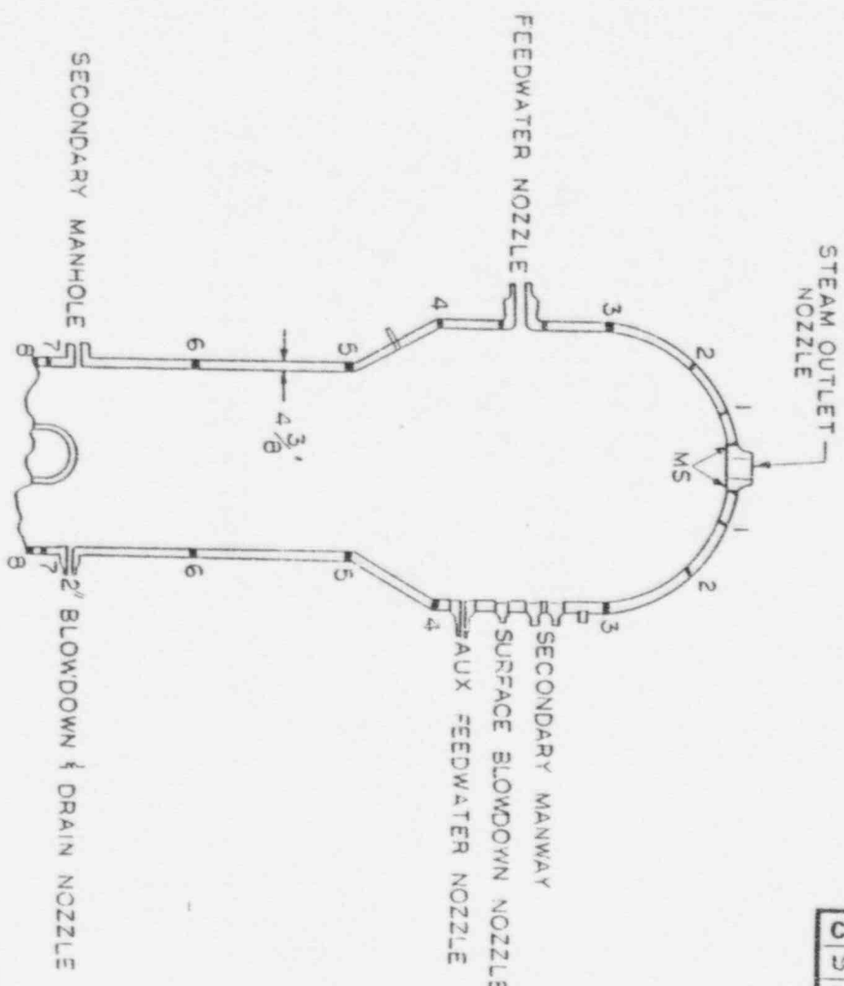

SwRI LINE No.	STEAM GENERATOR OUTLINE
BG&E LINE No.	N / A
NOM. O.D./SCH.	N / A
NOM. THICKNESS	3"-7"
MATERIAL	CS
CAL. BLK.	SEE TBLS

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	N / A
REFERENCE DWG(s).	N / A
FIGURE	B-1
REV.	1 6-17-86

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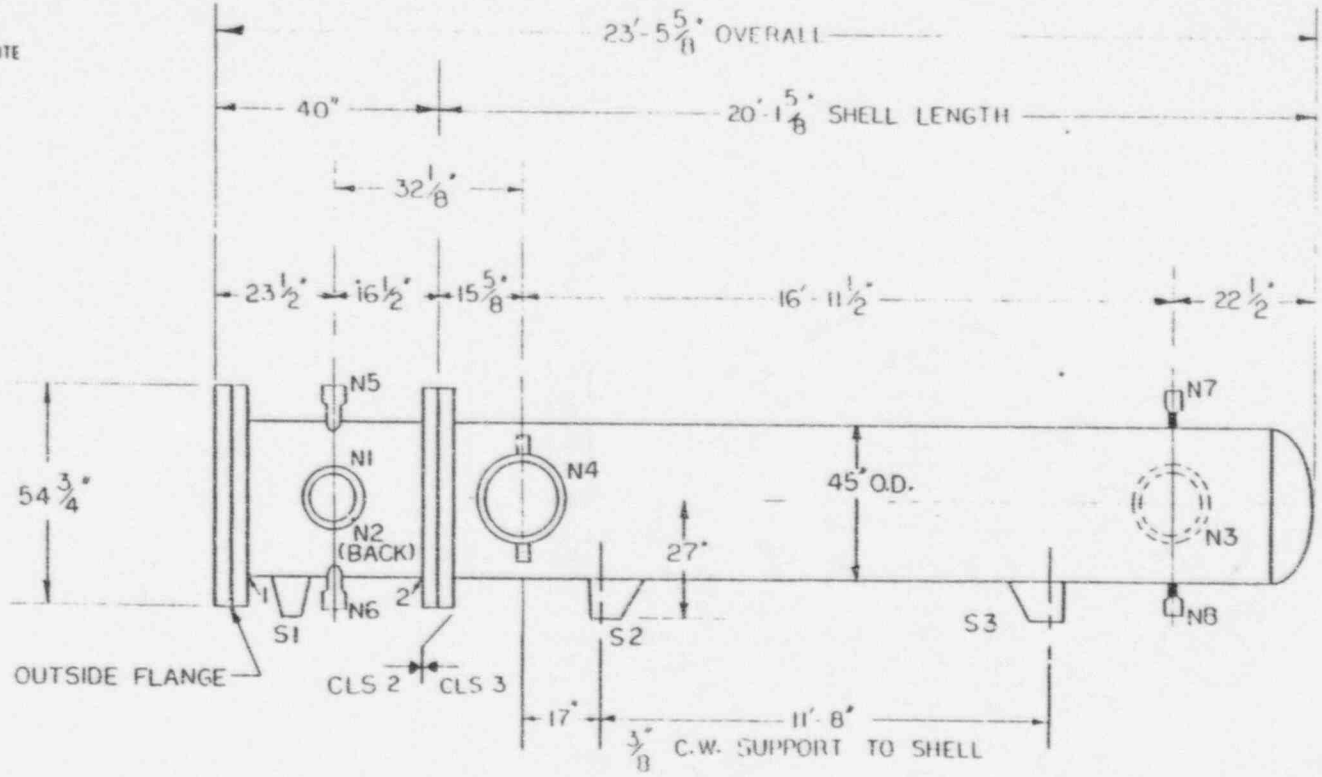
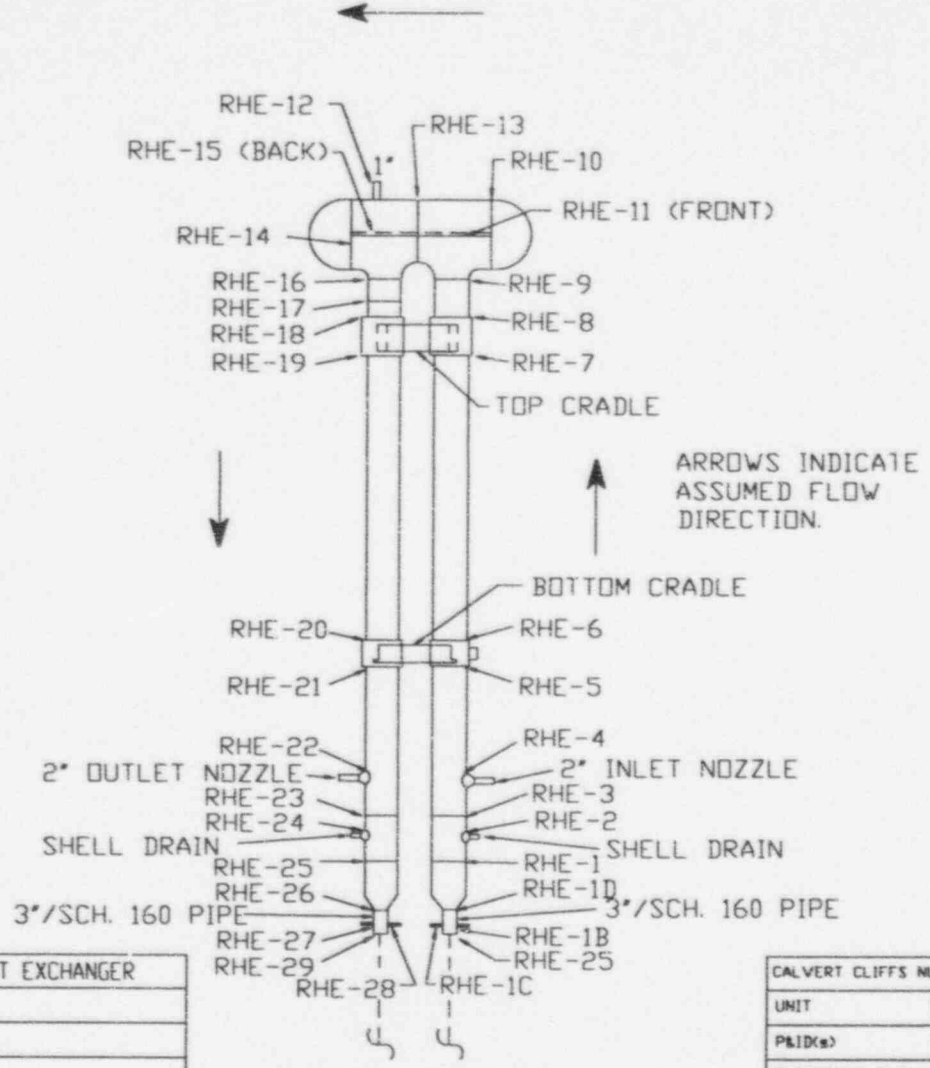


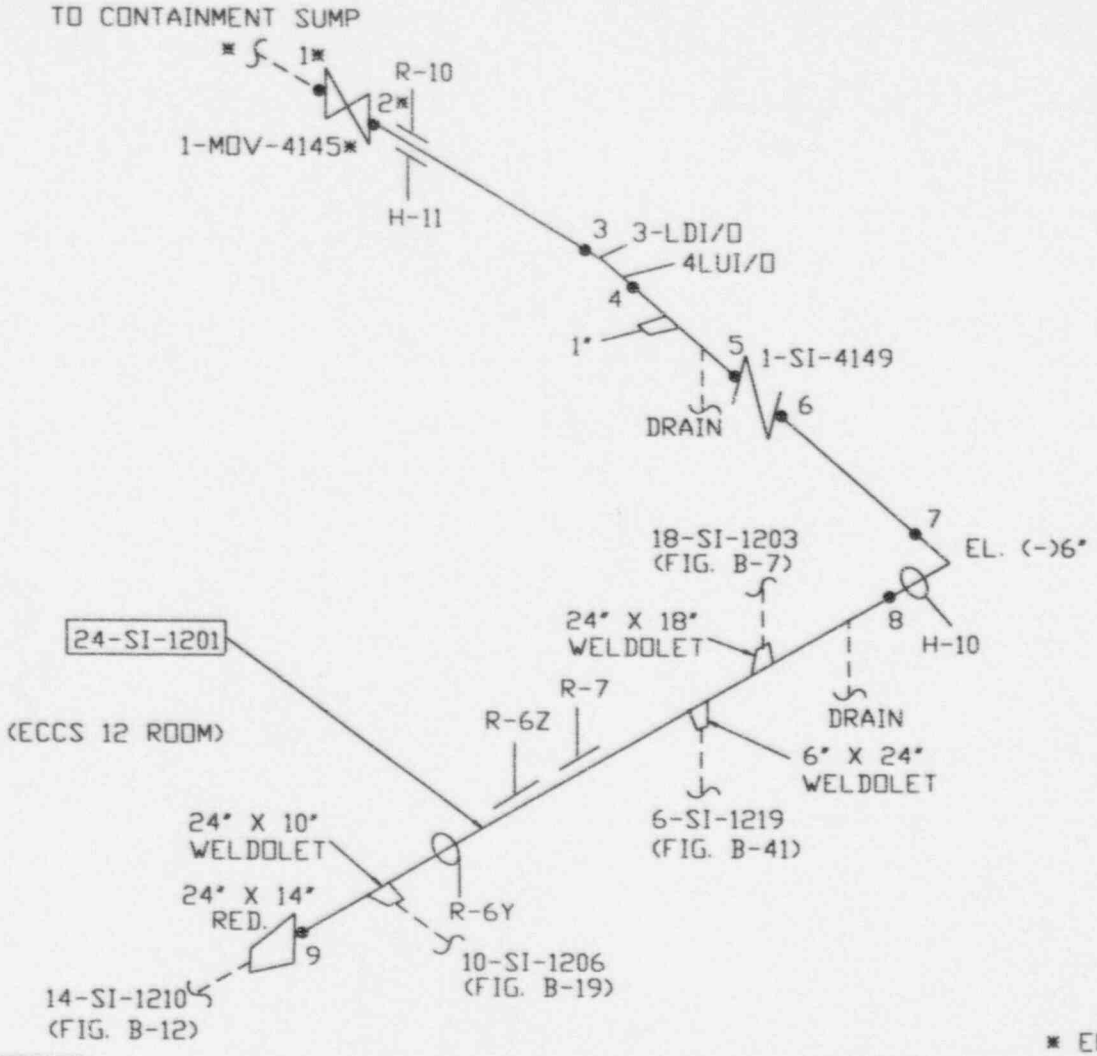
SwRI LINE No.	SHUTDOWN COOLING HEAT EXCHANGER OUTLINE
BG&E LINE No.	N / A
NOM. O.D./SCH.	N / A
NOM. THICKNESS	1.125"
MATERIAL	CSCL
CAL. BLK.	CC-56

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	N / A
REFERENCE DWG(s).	N / A
FIGURE	B-3
REV.	1 6-17-86



S&RI LINE No.	REGENERATIVE HEAT EXCHANGER
BG&E LINE No.	N/A
NOM. O.D./SCH.	8"
NOM. THICKNESS	.875"
MATERIAL	SS
CAL. BLK.	CC-11

CALVERT CLIFFS NUCLEAR POWER PLANT		
UNIT	1	
P&ID(s)	N/A	
REFERENCE DWG(s)		N/A
FIGURE	B-4	
REV.	1	10-17-95



* ENCAPSULATED

SwRI LINE No.	24-SI-1201
BG&E LINE No.	24-HC3-1001
NOM. O.D./SCH.	24"/20
NOM. THICKNESS	0.375"
MATERIAL	SS
CAL. BLK.	CC-53

CALVERT CLIFFS NUCLEAR POWER PLANT	
UNIT	1
P&ID(s)	M-74(SH. 1,3)
REFERENCE DWG(s)	1-16-12 & SKM-608(12)
FIGURE	B-5
REV.	1 10-17-95

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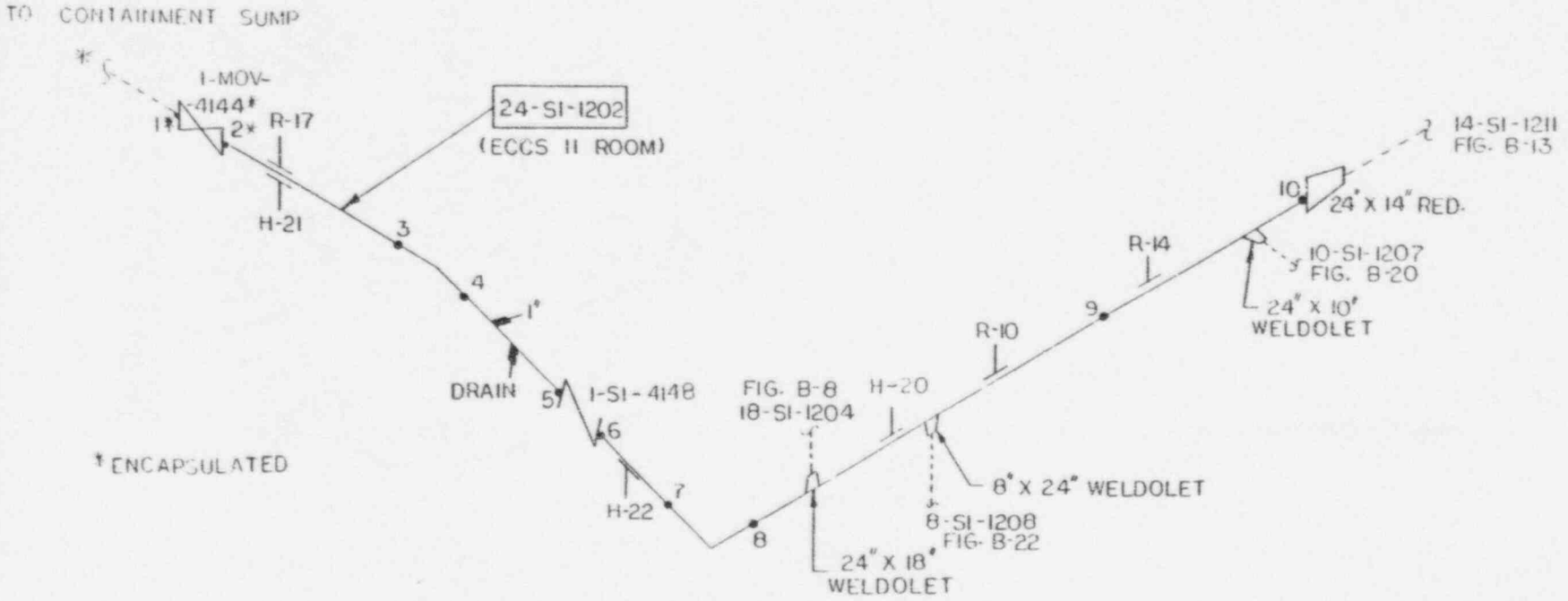

SwRI LINE No.	24-SI-1202
BG&E LINE No.	24-HC3-1002
NOM. O.D./SCH.	24" / 20
NOM. THICKNESS	0.375"
MATERIAL	SS
CAL. BLK.	CC-53

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74 (SH. 1,3)	
REFERENCE DWG(s).	I-15-13 & SK-M-608(13)	
FIGURE	B-6	
REV.	3	12-10-87

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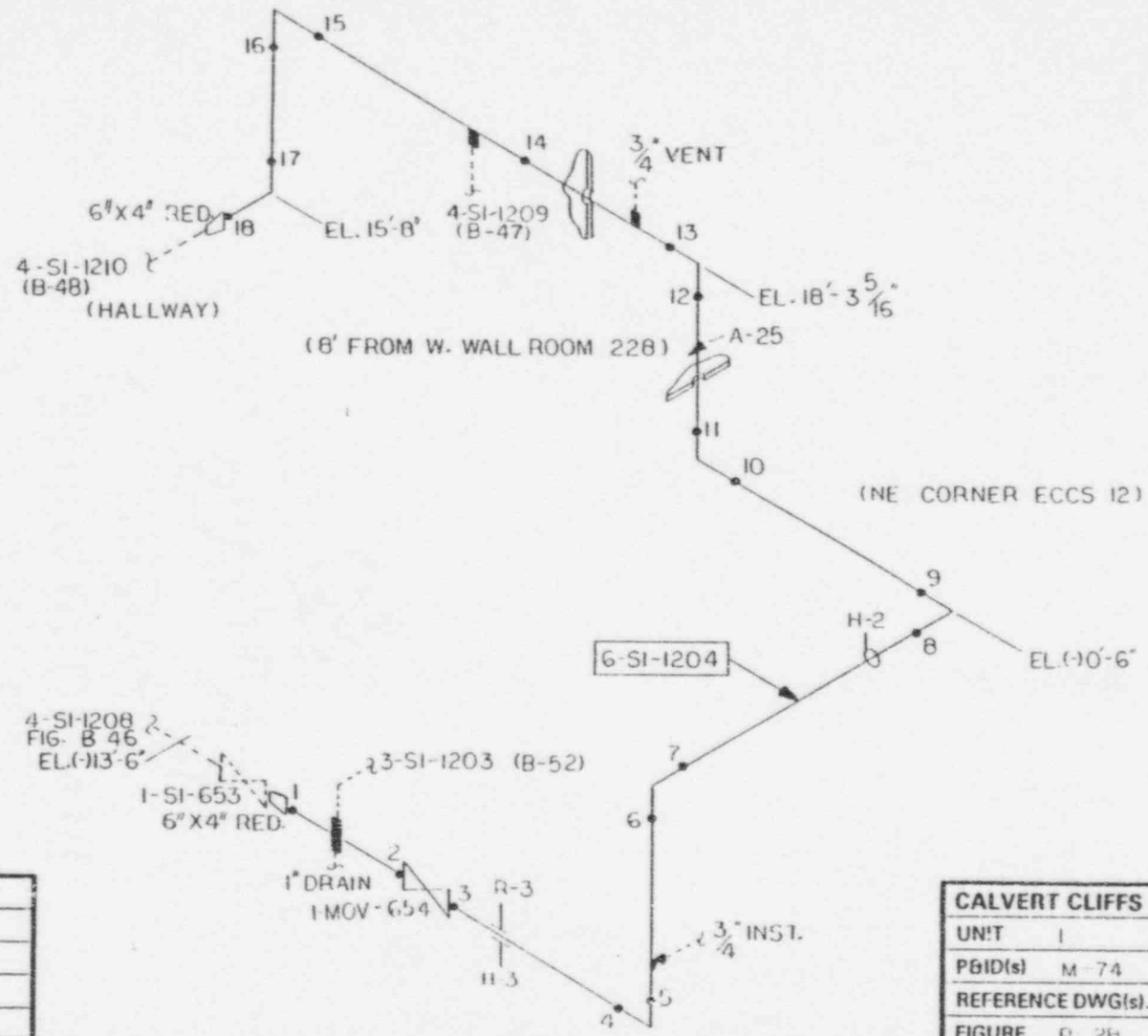

SwRI LINE No.	6-SI-1204
BG&E LINE No.	6-DCI-1004
NOM. O.D./SCH.	6" / 80S
NOM. THICKNESS	0.432"
MATERIAL	SS
CAL. BLK.	CC-42

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	1-15-3 , 1-16-7
FIGURE	B 28
REV.	2 12-16-87

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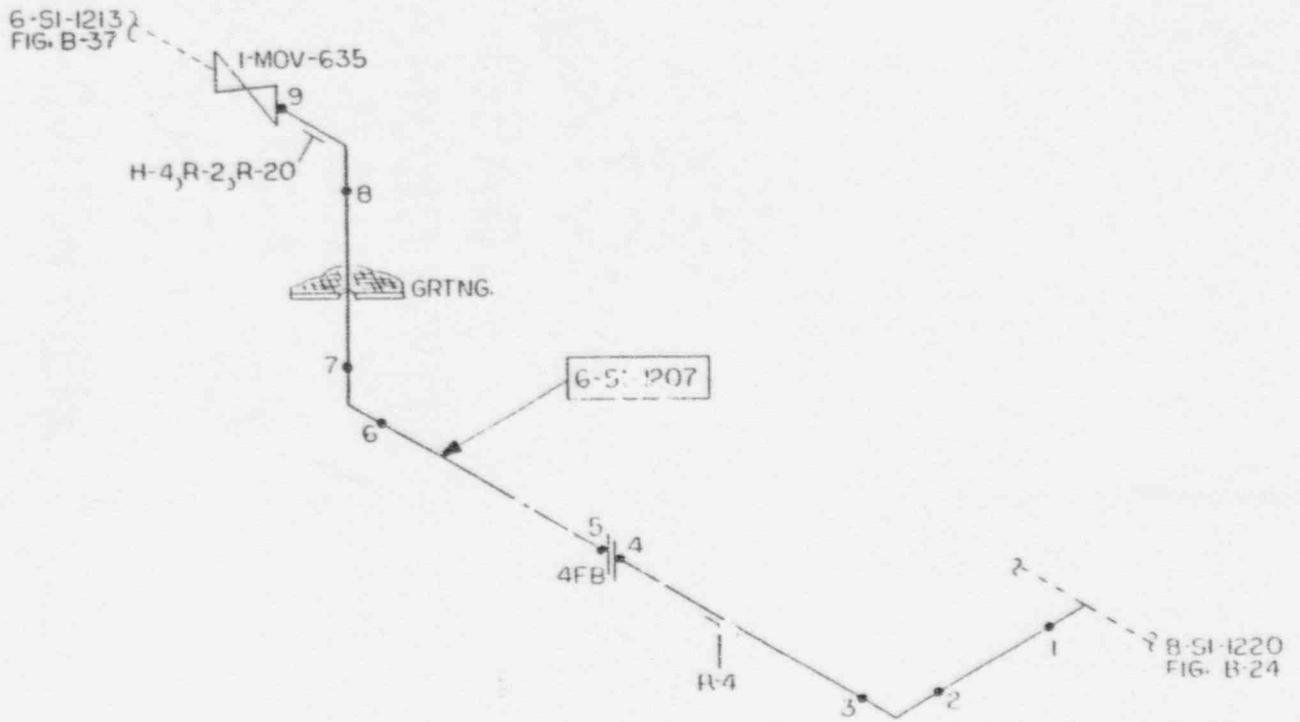

SwRI LINE No.	6-SI-1207
BG&E LINE No.	6-GCI-1007
NOM. O.D./SCH.	6"/40S
NOM. THICKNESS	0.280"
MATERIAL	SS
CAL. BLK.	CC-43

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	1 19 B 1 23 16
FIGURE	B-31
REV.	0 12 16-86

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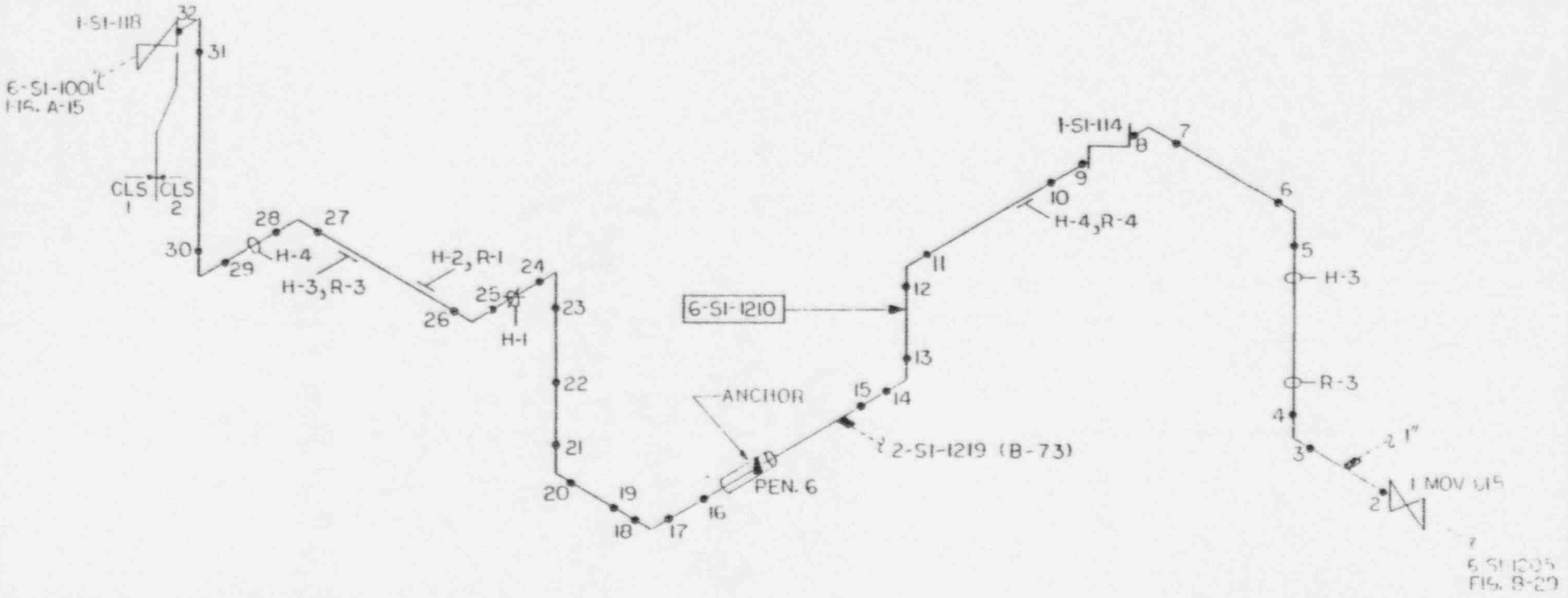
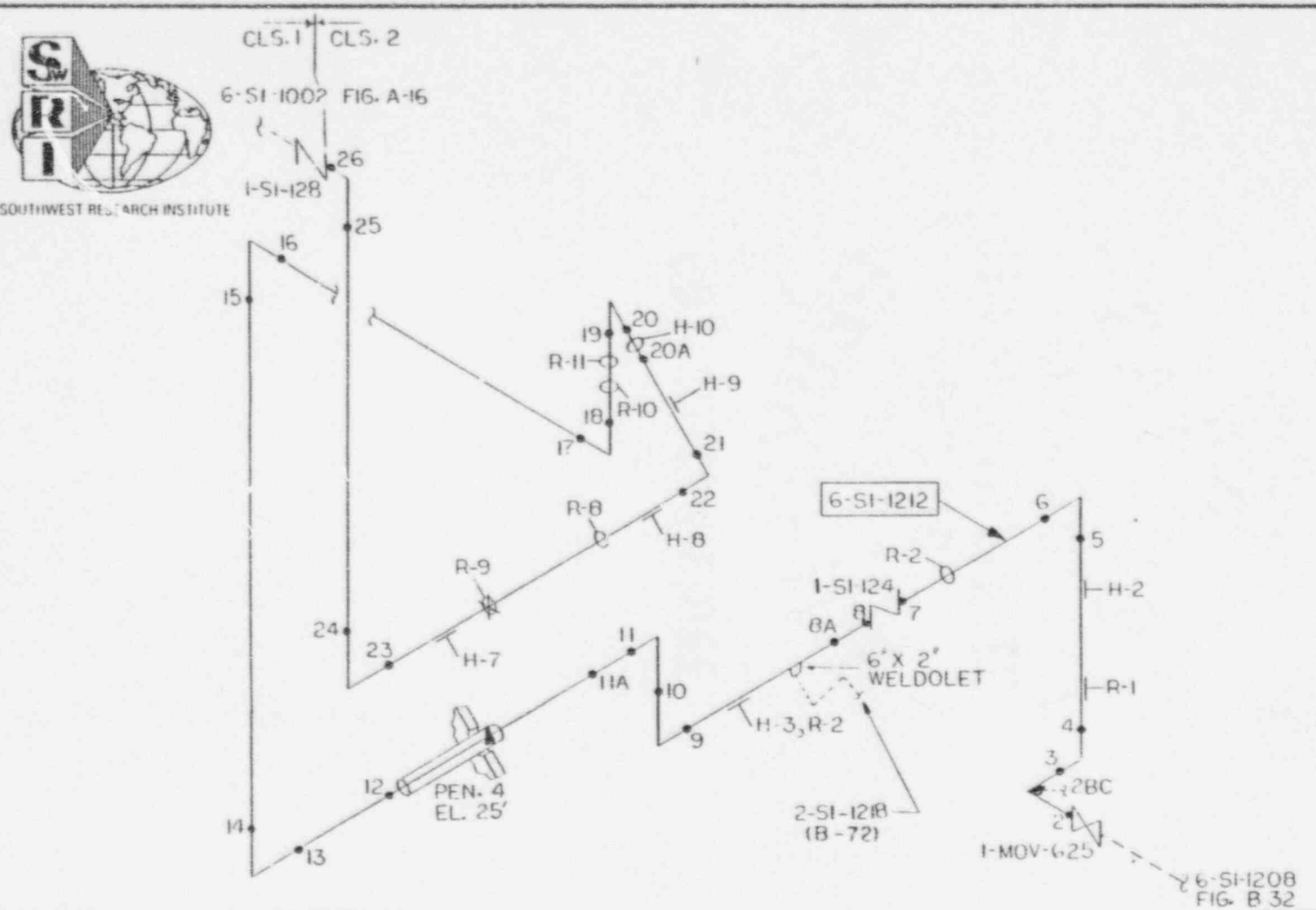


SwRI LINE No.	6-SI-1210*
BG&E LINE No.	6-CC13-1001
NOM. O.D./SCH.	6"/120
NOM. THICKNESS	0.562"
MATERIAL	SS
CAL. BLK.	CC-16

* FORMERLY 6-SI-1001

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	1-22-14 & 1-26-4$_2$-6	
FIGURE	B-34	
REV.	1	12-16-87



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SwRI LINE No.	6-SI-1212*
BG&E LINE No.	6-CC13-1002
NOM. O.D./SCH.	6" / 120
NOM. THICKNESS	0.562
MATERIAL	SS
CAL. BLK.	CC-16

* FORMERLY 6-SI-1002

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	SKM 663
FIGURE	B-36
REV.	1 12-16-87

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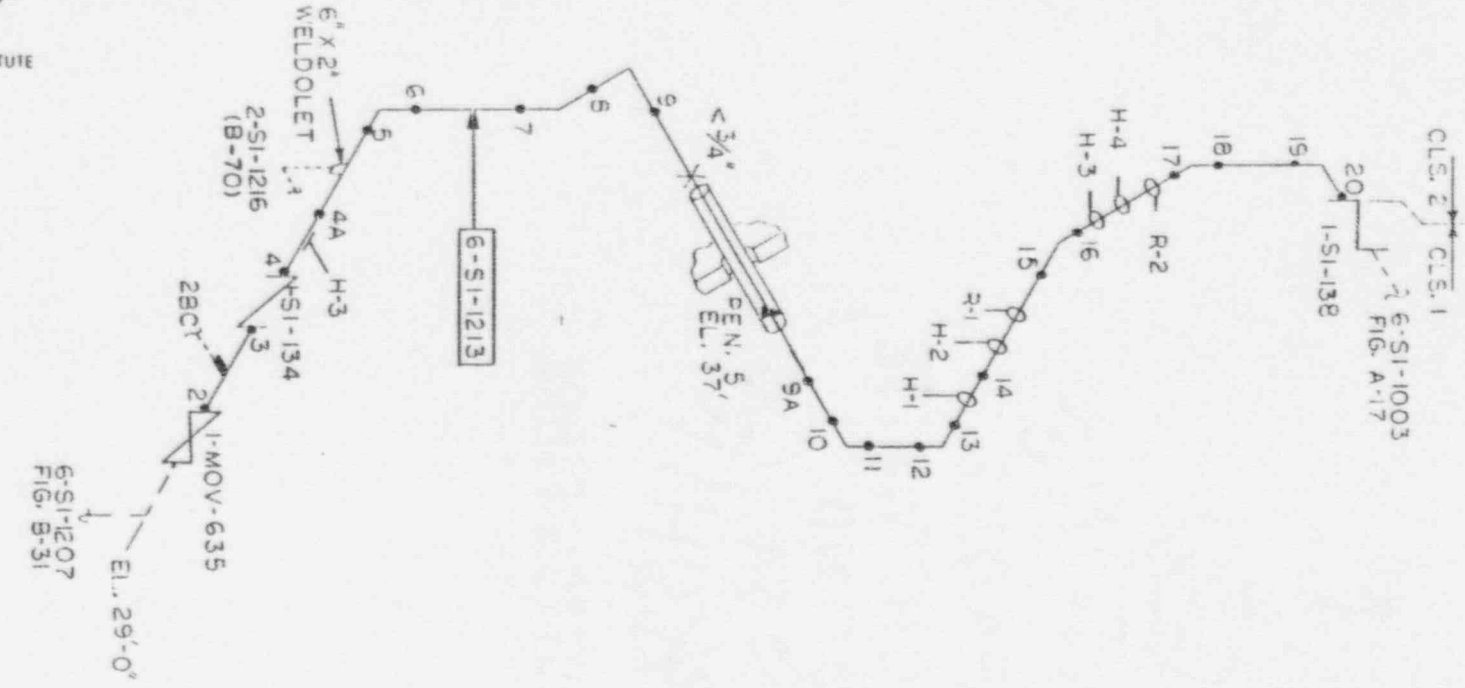

SwRI LINE No.	6-SI-1213*
BG&E LINE No.	6-CC13-1003
NOM. O.D./SCH.	6"/120
NOM. THICKNESS	0.562"
MATERIAL	SS
CAL. BLK.	CC-16

* FORMERLY 6-SI-1003

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74 (SH. 2)
REFERENCE DWG(s).	1-19-11, 1-23-15
FIGURE	B-37
REV.	1 12-16-87

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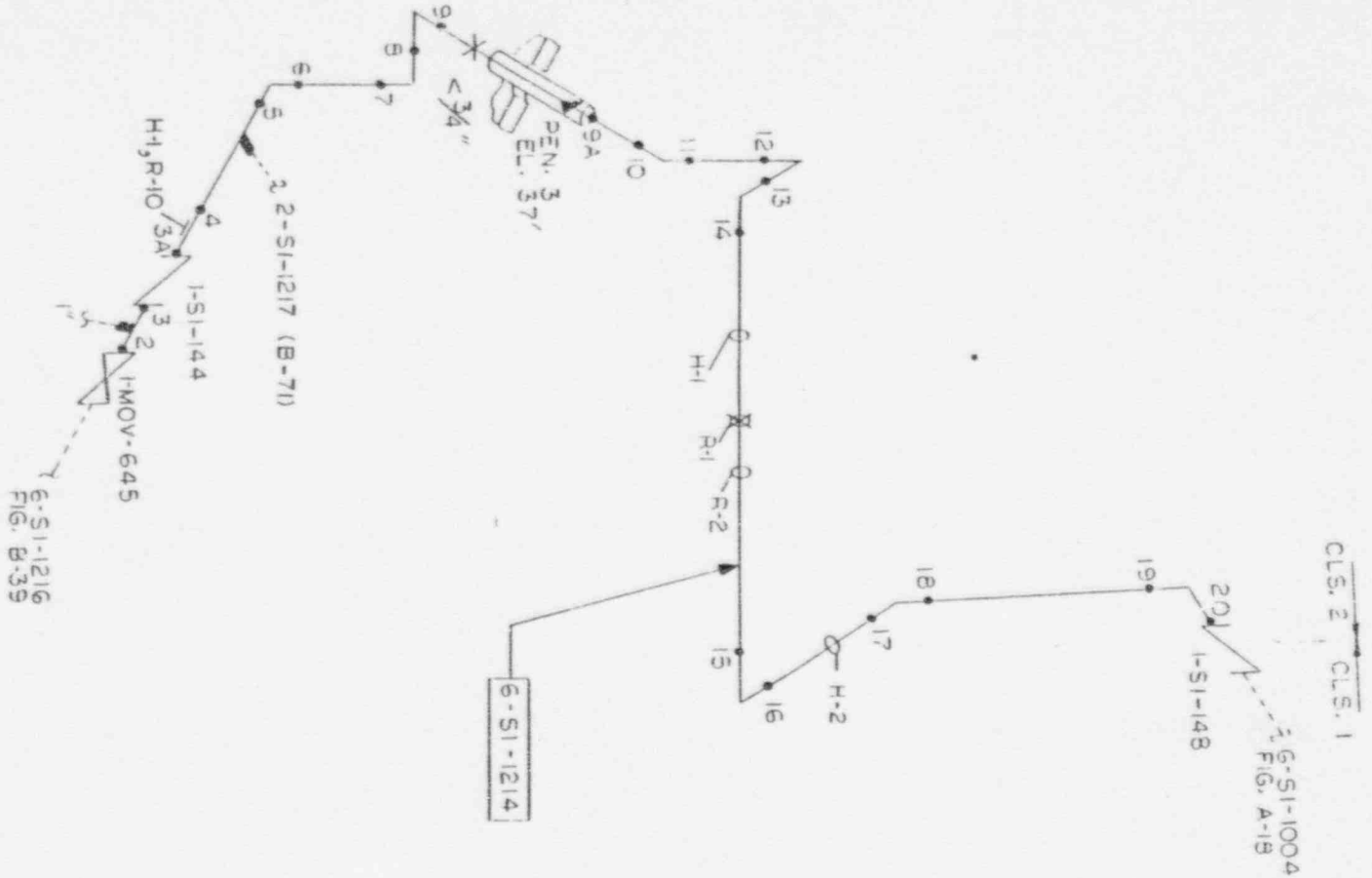

SwRI LINE No.	6-SI-1214*
BG&E LINE No.	6-CC13-1004
NOM. O.D./SCH.	6"/120
NOM. THICKNESS	0.562"
MATERIAL	SS
CAL. BLK.	CC-16

* FORMERLY 6-SI-1004

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74 (SH. 2)
REFERENCE DWG(s).	1-19-8 & 1-23-16
FIGURE	B-38
REV.	1 12-16-87

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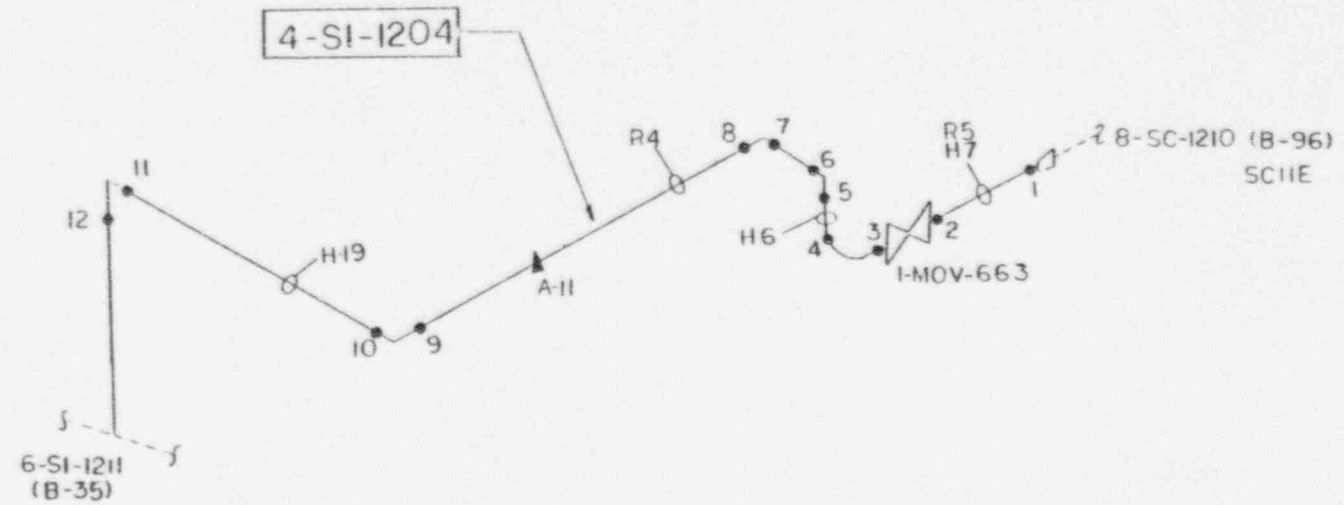

SwRI LINE No.	4-SI-1204
BG&E LINE No.	4-GC3-1004
NOM. O.D./SCH.	4"/40 S
NOM. THICKNESS	0.237"
MATERIAL	SS
CAL. BLK.	CC-65

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	SKM - 608 SII, 2, 15
FIGURE	B-42
REV.	0 12-11-87

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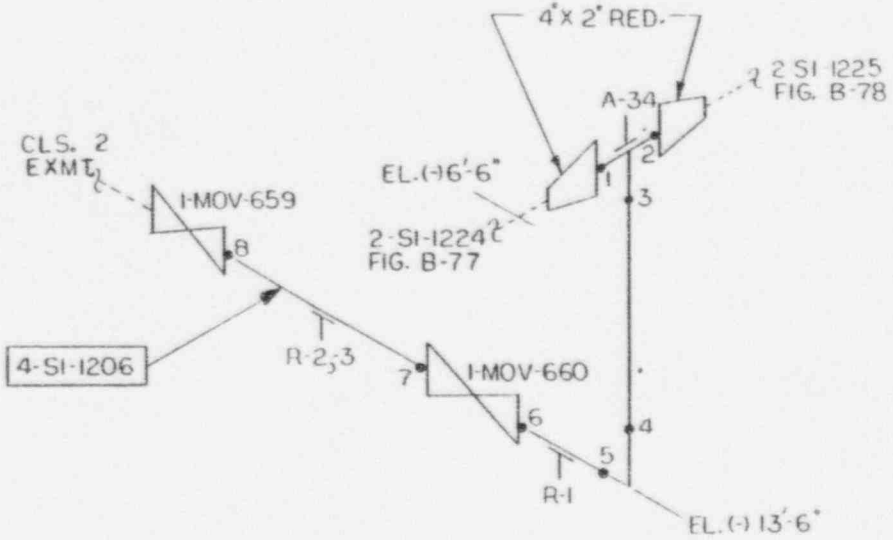

SwRI LINE No.	4-SI-1206
BG&E LINE No.	4-DC2-1006 ✓
NOM. O.D./SCH.	4/80
NOM. THICKNESS	0.337
MATERIAL	SS
CAL. BLK.	CC-64

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74 (SH. 1)	
REFERENCE DWG(s).	SK-M-608 SHT. 10	
FIGURE	B-44	
REV.	1	12-16-87

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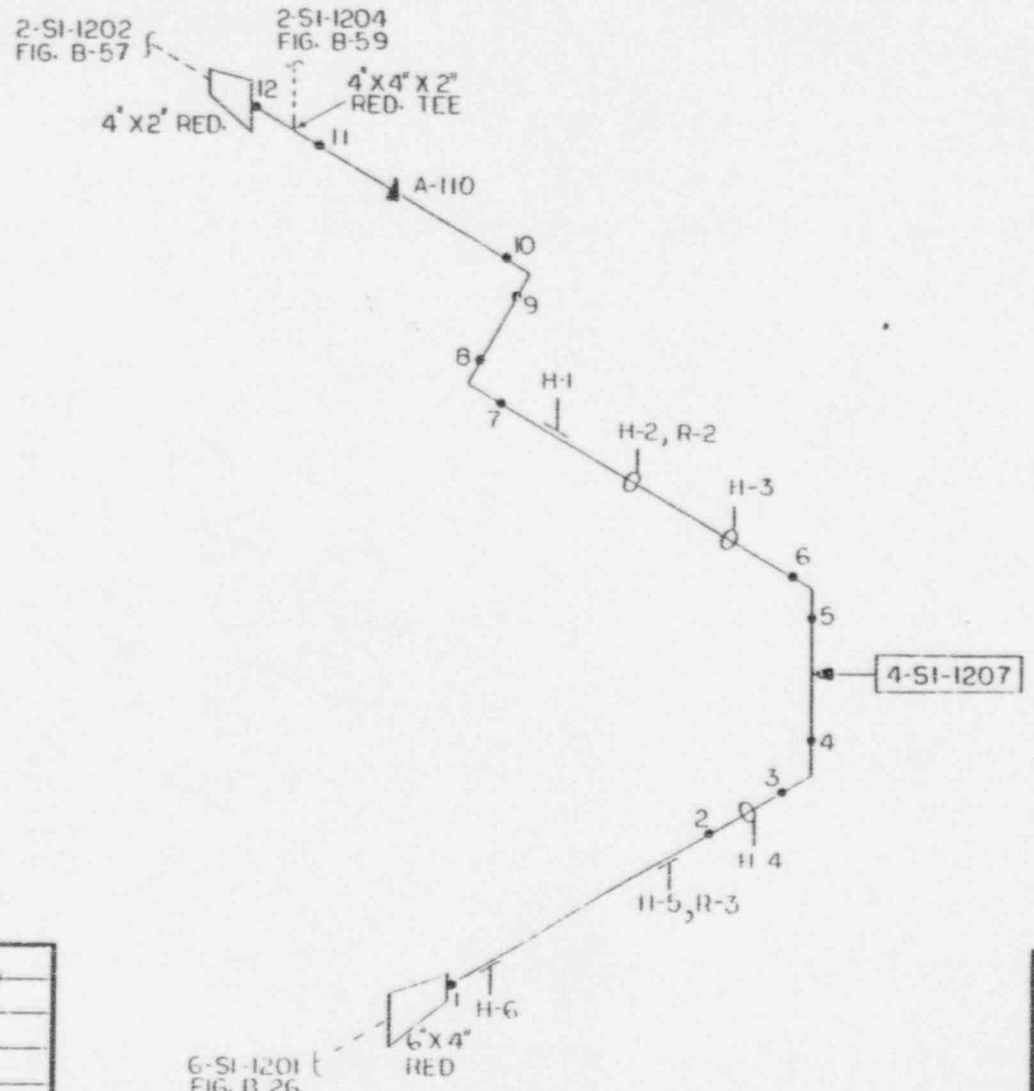

SwRI LINE No.	4-SI-1207
BG&E LINE No.	4-CC6-1007 ✓
NOM. O.D./SCH.	4 / 120
NOM. THICKNESS	0.438
MATERIAL	SS
CAL. BLK.	CC-15

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M 74	
REFERENCE DWG(s).	SK-M-645	
FIGURE	B-45	
REV.	1	12-15-87

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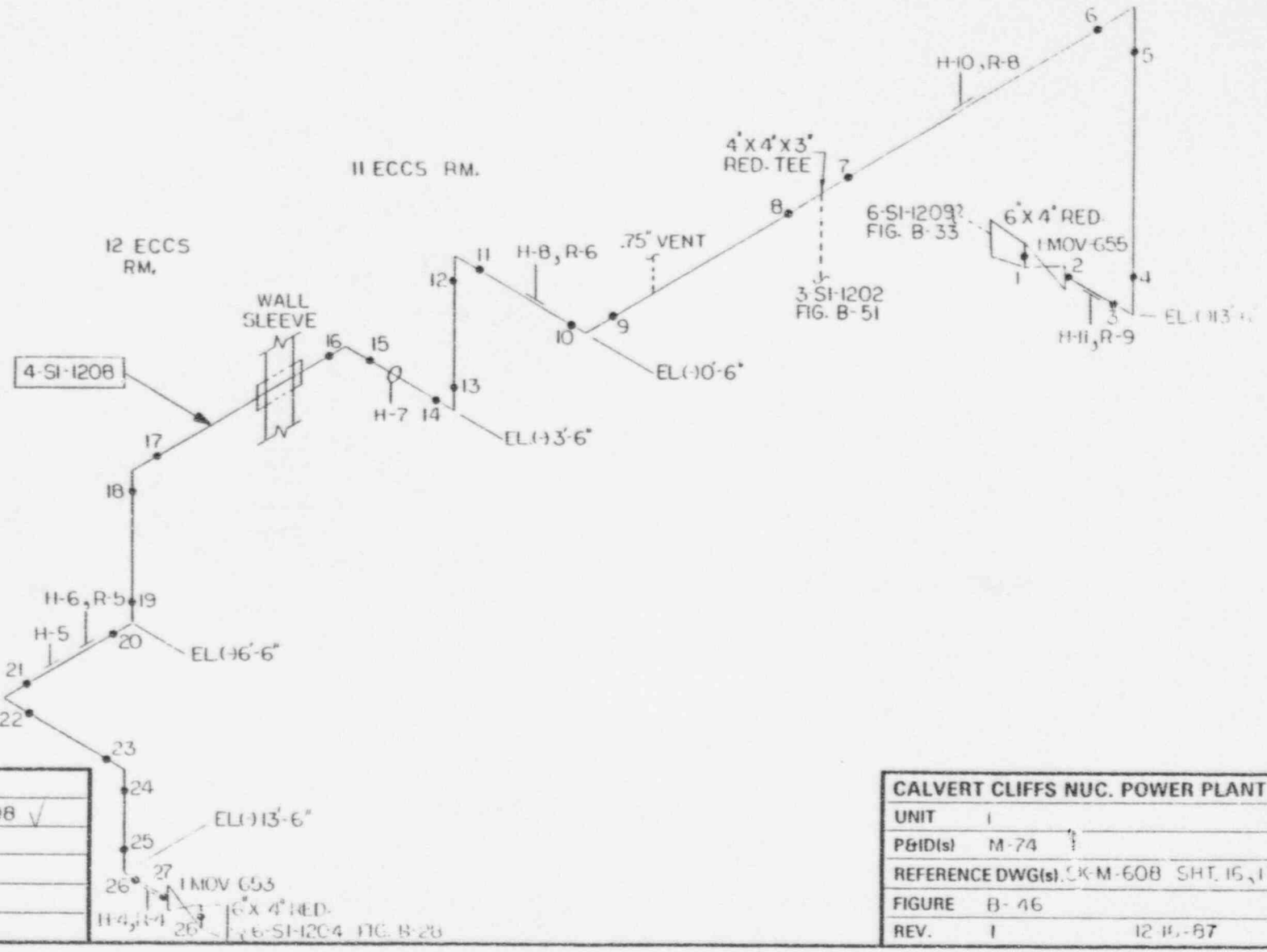

SwRI LINE No.	4-SI-1208
BG&E LINE No.	4-DCI-1008 √
NOM. O.D./SCH.	4 / 80
NOM. THICKNESS	0.337
MATERIAL	SS
CAL. BLK.	CC-64

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	CK-M-608 SHT. 16, 17
FIGURE	B-46
REV.	1 12-15-87

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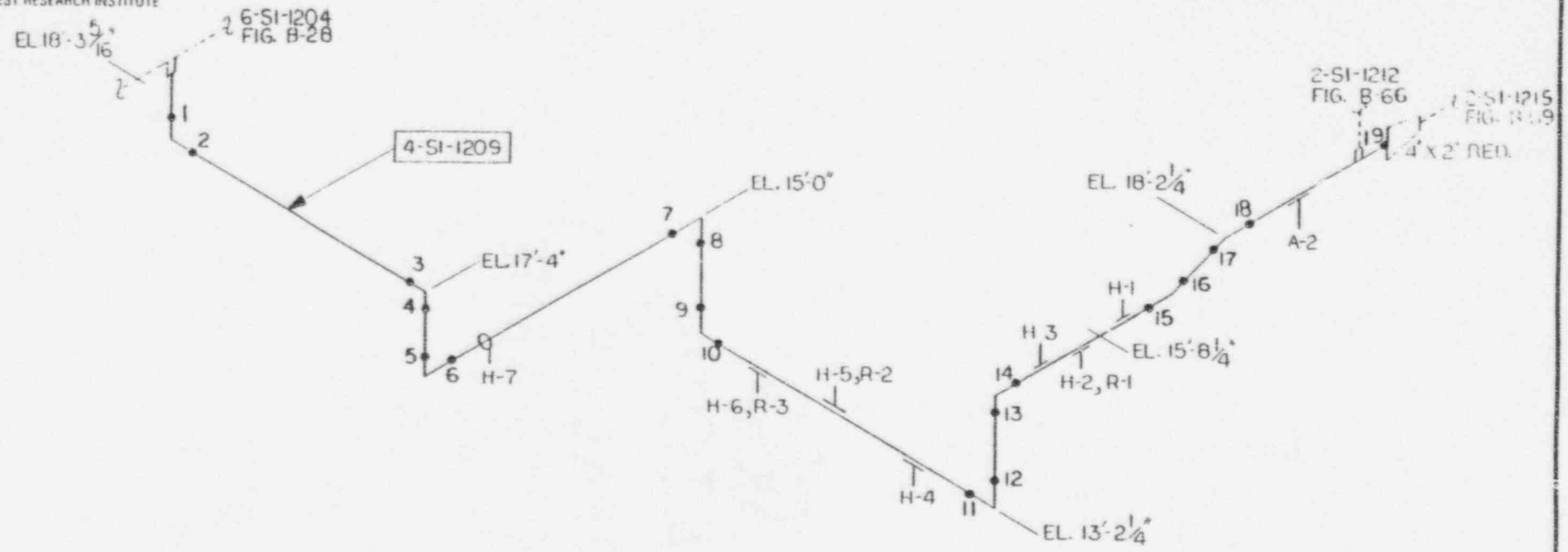
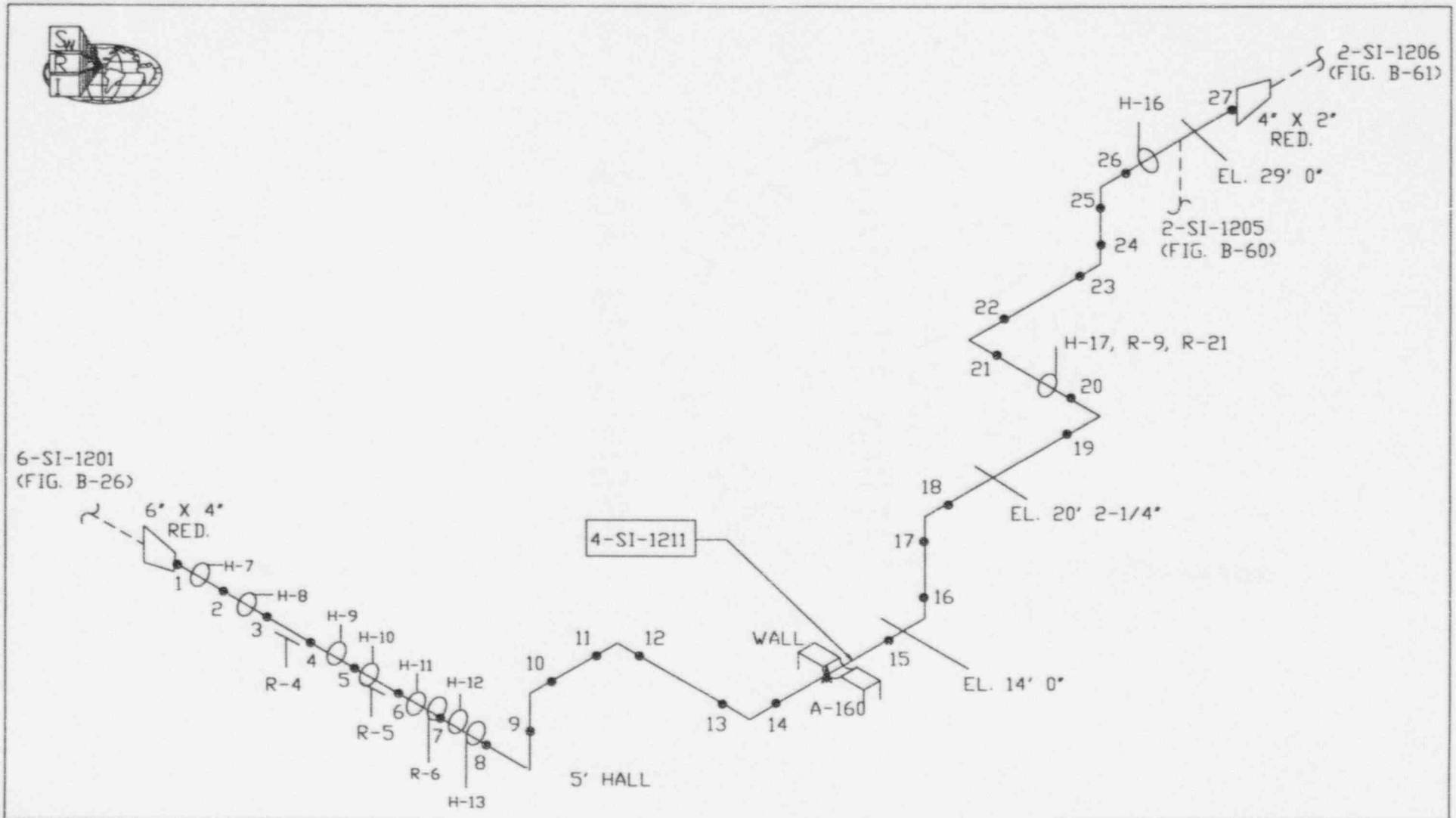


SwRI LINE No.	4-SI-1209
BG&E LINE No.	4-DCI-1009
NOM. O.D./SCH.	4/80
NOM. THICKNESS	0.337
MATERIAL	SS
CAL. BLK.	CC-64

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	SK M 690	
FIGURE	B-47	
REV.	1	12-16-87



SwRI LINE No.	4-SI-1211
BG&E LINE No.	4-CC6-1008
NOM. O.D./SCH.	4"/120
NOM. THICKNESS	0.438"
MATERIAL	SS
CAL. BLK.	CC-15

CALVERT CLIFFS NUCLEAR POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s)	SKM-645, SKM-671	
FIGURE	B-49	
REV.	1	10-17-95

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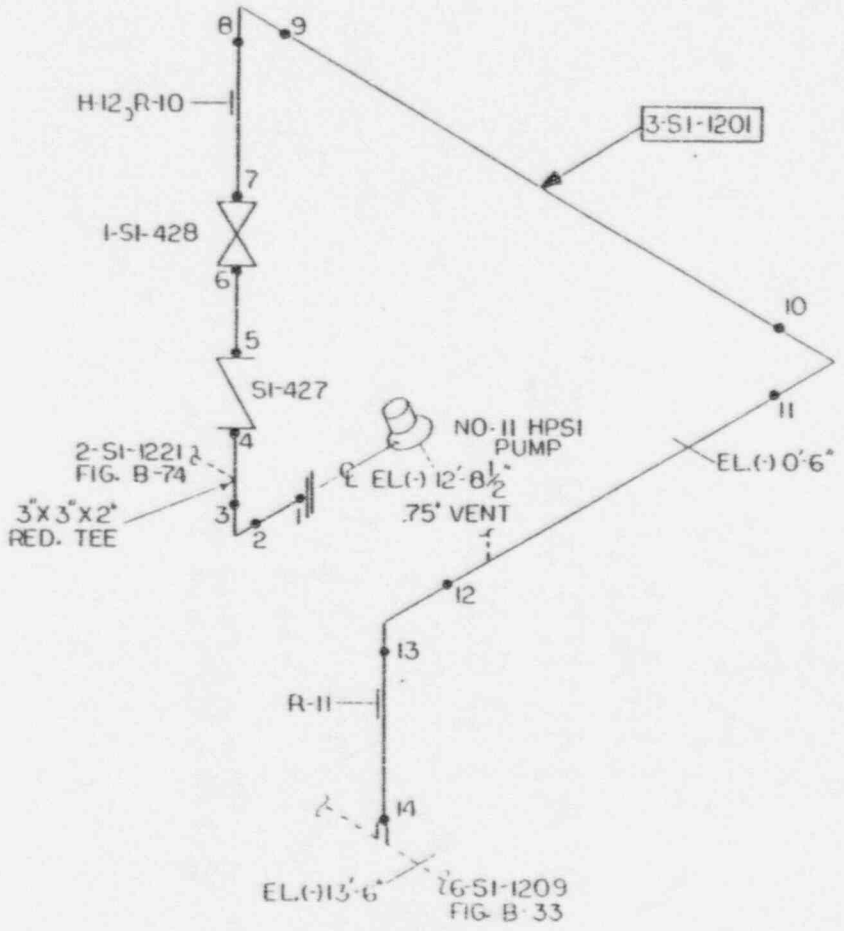

SwRI LINE No.	3-SI-1201
BG&E LINE No.	3-DCI-1001
NOM. O.D./SCH.	3 / 80
NOM. THICKNESS	0.300
MATERIAL	SS
CAL. BLK.	CC-66

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	SK-M-608 SHT. 17
FIGURE	B-50
REV.	1 12-20-87

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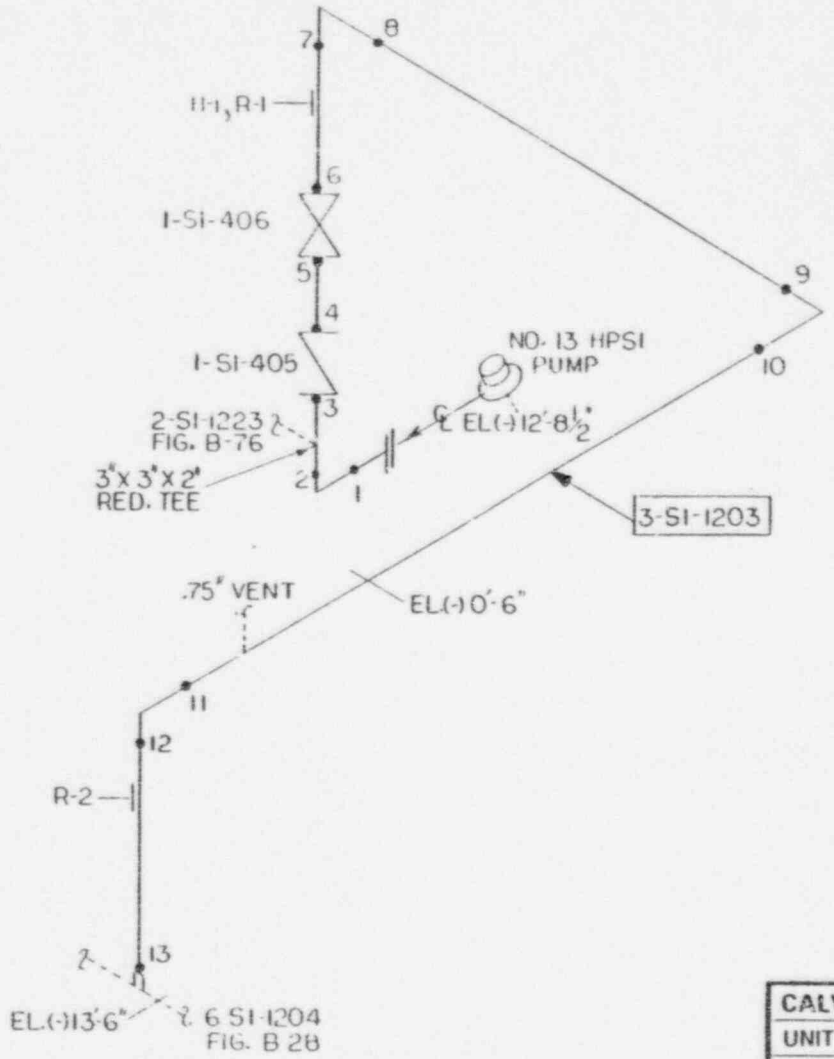

SwRI LINE No.	3-SI-1203
BG&E LINE No.	3-DCI-1003
NOM. O.D./SCH.	3 / 80
NOM. THICKNESS	0.300
MATERIAL	SS
CAL. BLK.	CC-66

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	SK-M-608 SHT. 15	
FIGURE	B-52	
REV.	1	12-20-87

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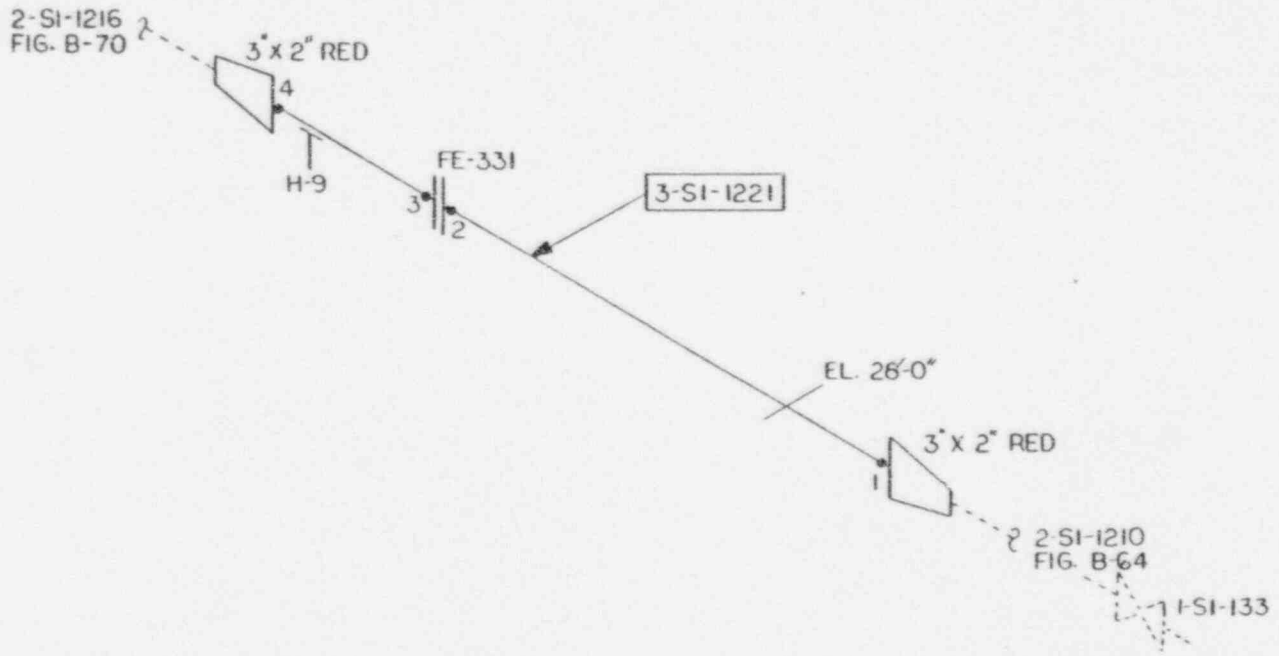

SwRI LINE No.	3-SI-1221
BG&E LINE No.	3-CC13-1021
NOM. O.D./SCH.	3 / 160
NOM. THICKNESS	0.438
MATERIAL	SS
CAL. BLK.	CC-14

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	KELLOGG 1-19-9
FIGURE	B 56
REV.	1 12-20 87

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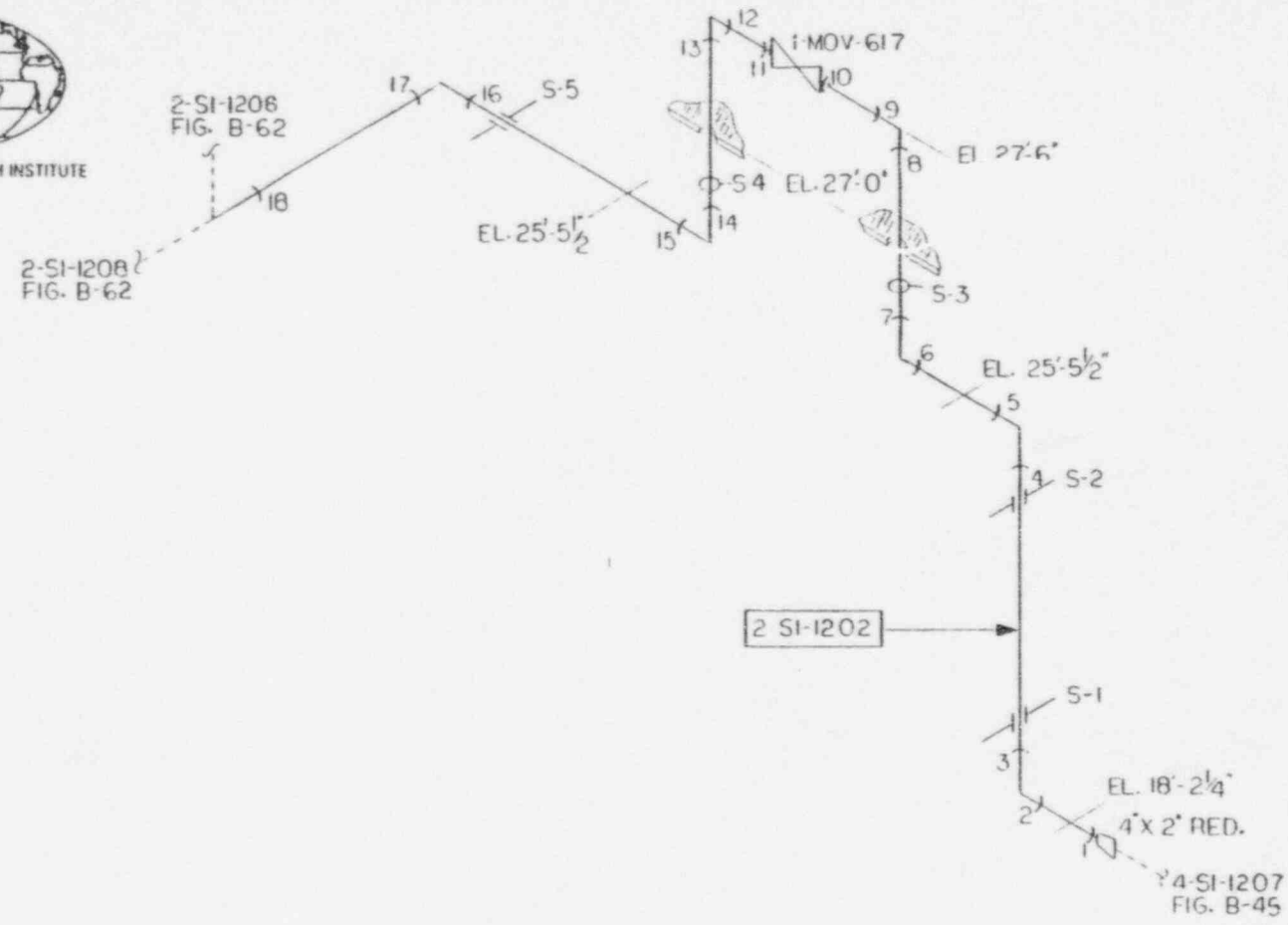

SwRI LINE No.	2-SI-1202
BG&E LINE No.	2-CC6-1002
NOM. O.D./SCH.	2/160
NOM. THICKNESS	0.344
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
PGID(s)	M-74
REFERENCE DWG(s).	FSK M-P-744, -75
FIGURE	B-57
REV.	1 12-20-87

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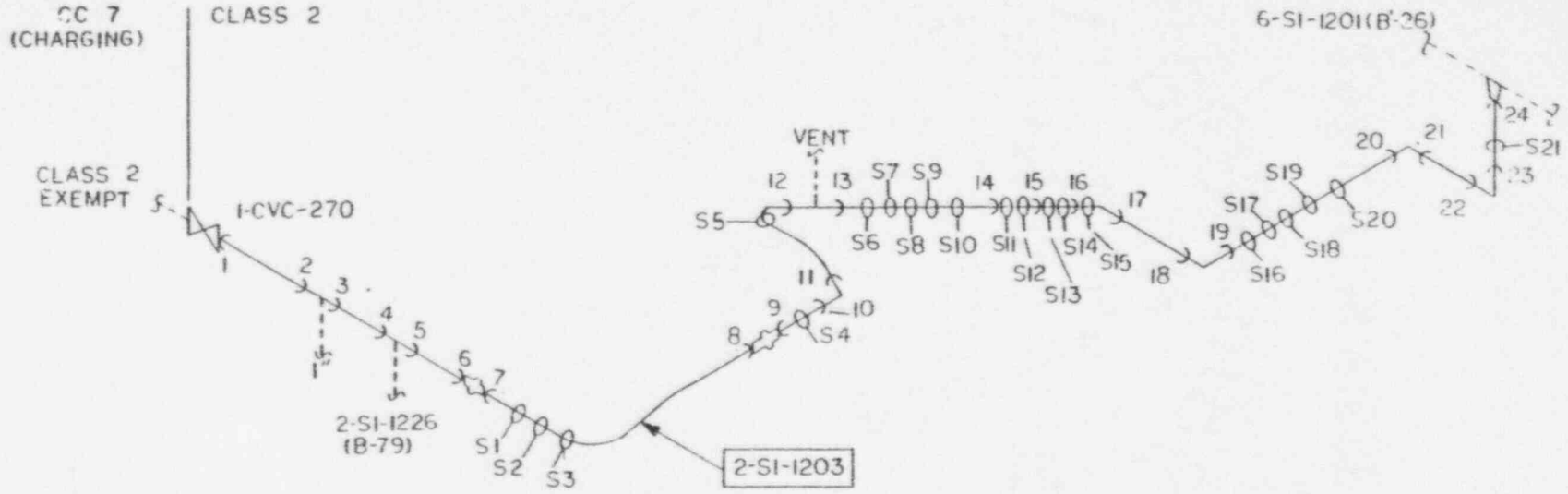

SwRI LINE No.	2-SI-1203
BG&E LINE No.	2-CC6-1003
NOM. O.D./SCH.	2"/ 160
NOM. THICKNESS	0.344"
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-73 & M-74
REFERENCE DWG(s).	FSK-MP-1668, -432
FIGURE	B-58
REV.	1 12-20-87

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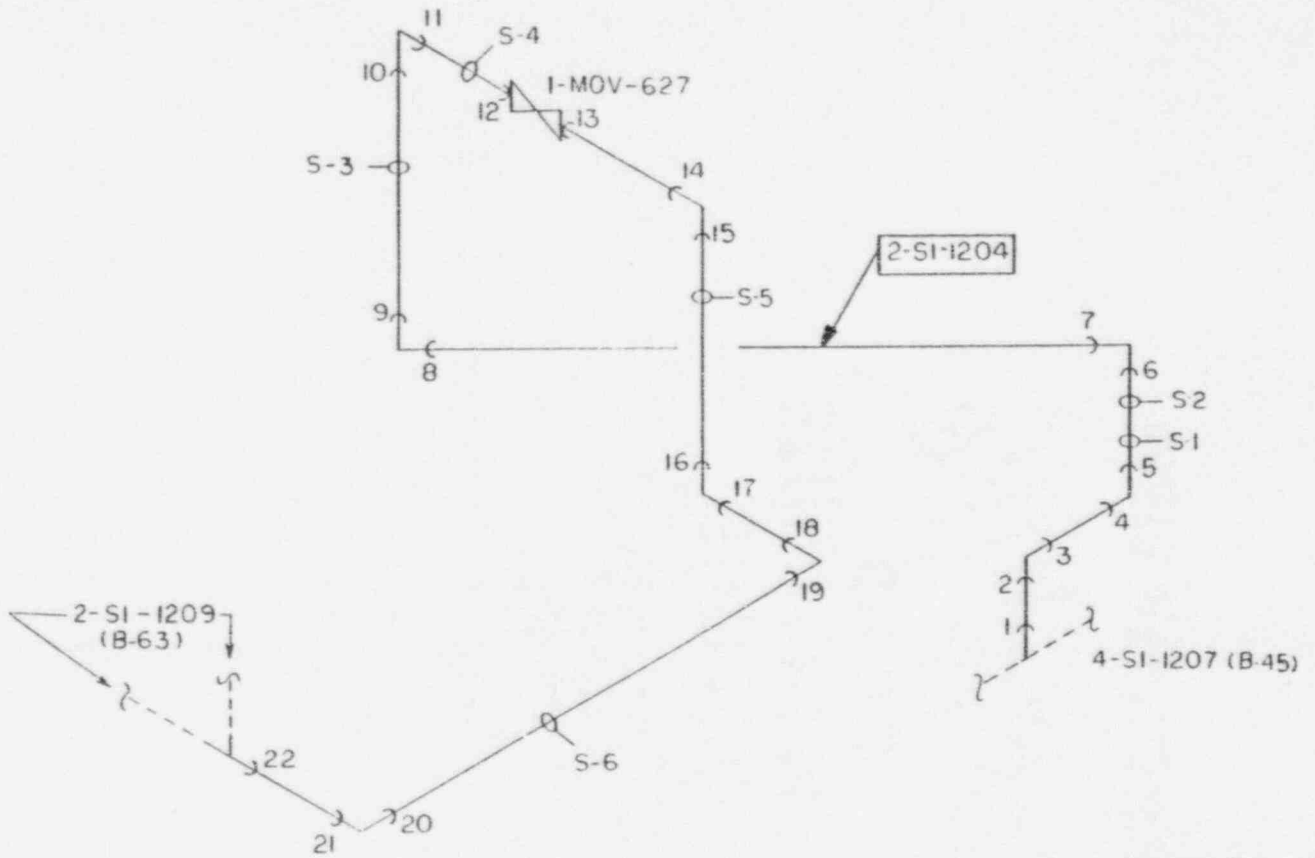

SwRI LINE No.	2-SI-1204
BG&E LINE No.	2-CC6-1004
NOM. O.D./SCH.	2" / 160
NOM. THICKNESS	0.344"
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	FSK-MP-743
FIGURE	B-59
REV.	1 12-20-87

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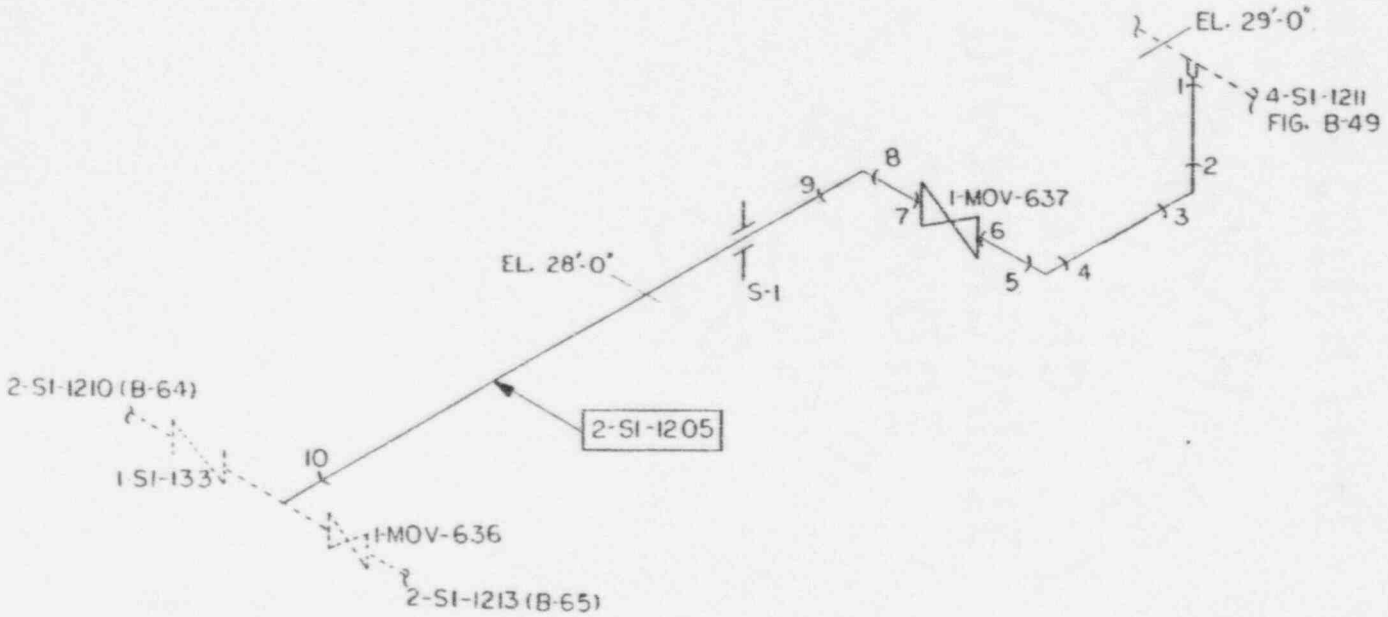

SwRI LINE No.	2-SI-1205
BG&E LINE No.	2-CC6-1005
NOM. O.D./SCH.	2"/ 160
NOM. THICKNESS	0.344"
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	FSK M-P-698
FIGURE	B-60
REV.	1 12-20-87

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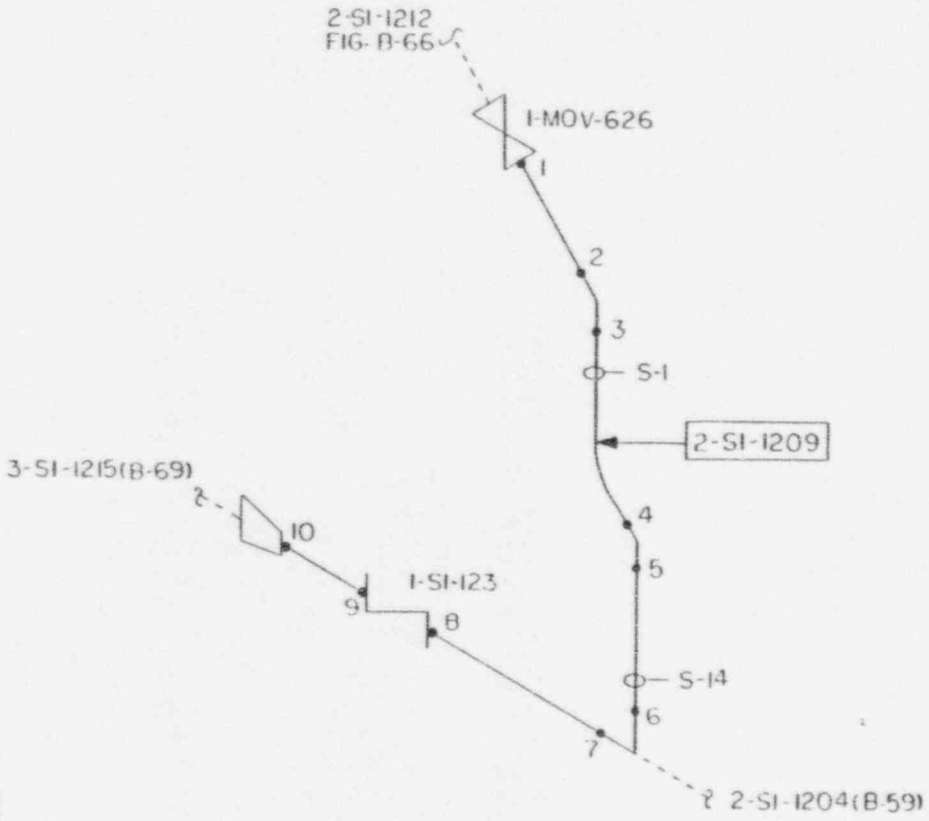

NOTE: WELDS ARE SOCKET WELDS

SwRI LINE No.	2-SI-1209
BG&E LINE No.	2-CC13-1006
NOM. O.D./SCH.	2"/160
NOM. THICKNESS	0.344"
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	FSK-MP-743
FIGURE	B-63
REV.	1 12-20-87

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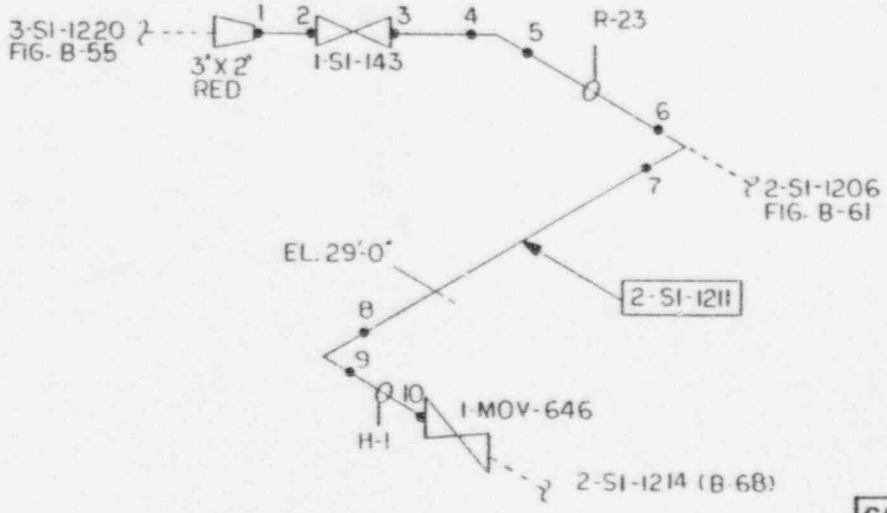

NOTE: WELDS ARE SOCKET WELDS

SwRI LINE No.	2-SI-1211
BG&E LINE No.	2-CC13-1008
NOM. O.D./SCH.	2" / 160
NOM. THICKNESS	0.344"
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M 74	
REFERENCE DWG(s).	FSK MP 698	
FIGURE	B-65	
REV.	1	12-20-87

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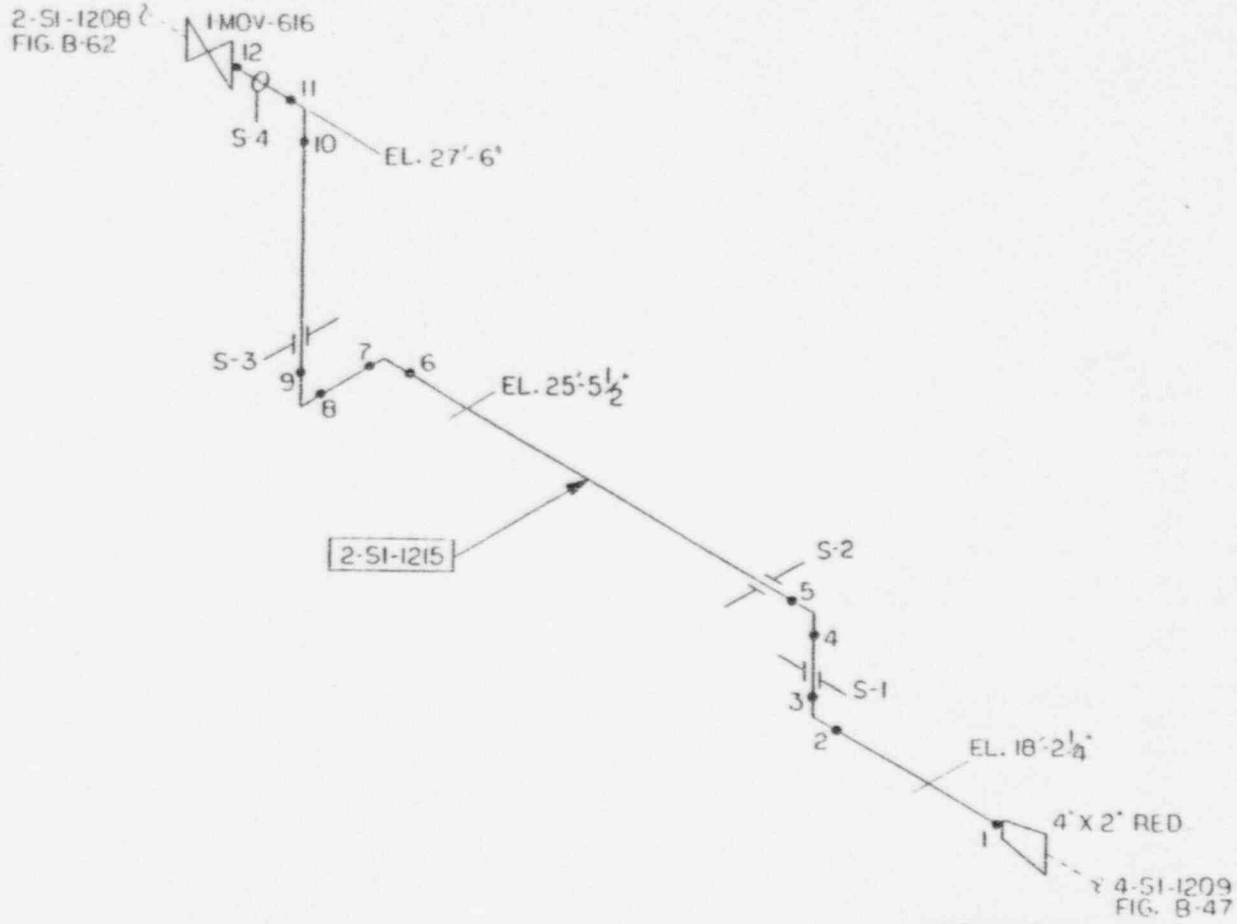

NOTE: WELDS ARE SOCKET WELDS

SwRI LINE No.	2-SI-1215
BG&E LINE No.	2-DCI-1005
NOM. O.D./SCH.	2 /80
NOM. THICKNESS	0.218"
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	1SK-MP-747
FIGURE	B-69
REV.	1 12-20-87

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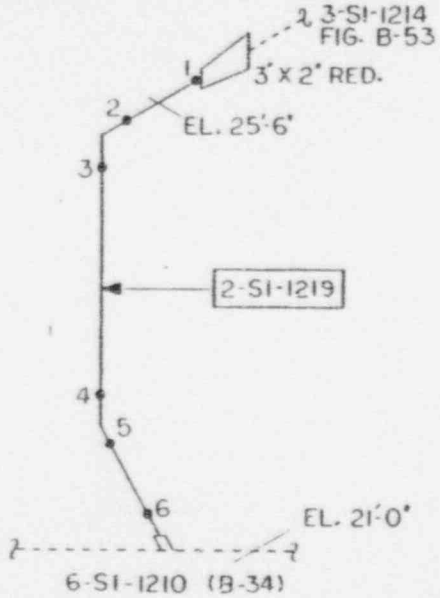

NOTE: WELDS ARE SOCKET WELDS

SwRI LINE No.	2-SI-1219
BG&E LINE No.	2-CC13-1019
NOM. O.D./SCH.	2"/160
NOM. THICKNESS	0.344
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74 (SH. 2)
REFERENCE DWG(s).	FSK-MP-744
FIGURE	B-73
REV.	1 12-20-87

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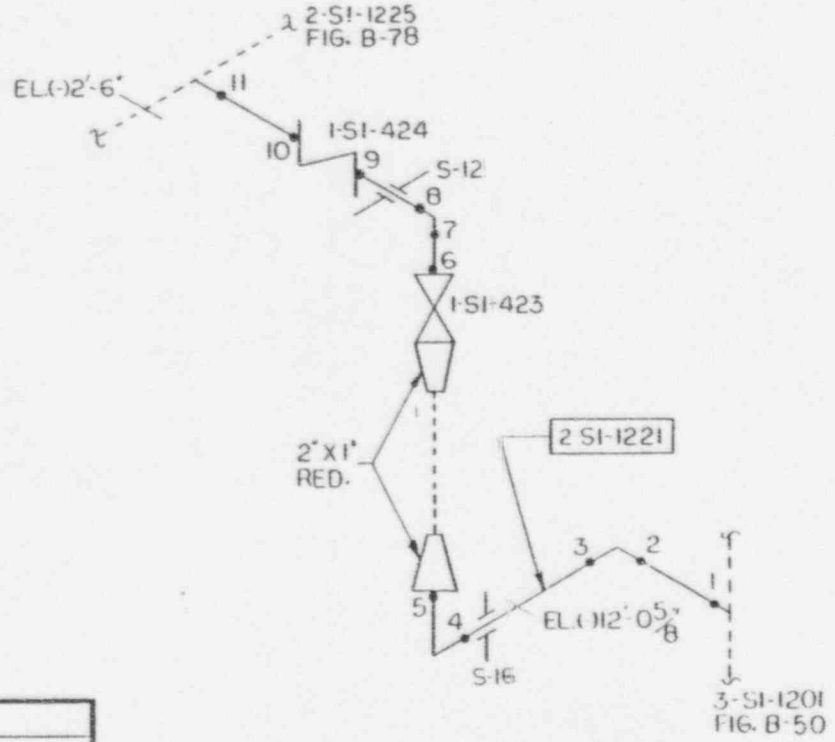

NOTE: WELDS ARE SOCKET WELDS

SwRI LINE No.	2-SI-1221
BG&E LINE No.	2-DC2-1001
NOM. O.D./SCH.	2"/80
NOM. THICKNESS	0.218"
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	FSK-MP-1783	
FIGURE	B-74	
REV.	1	12-20-87

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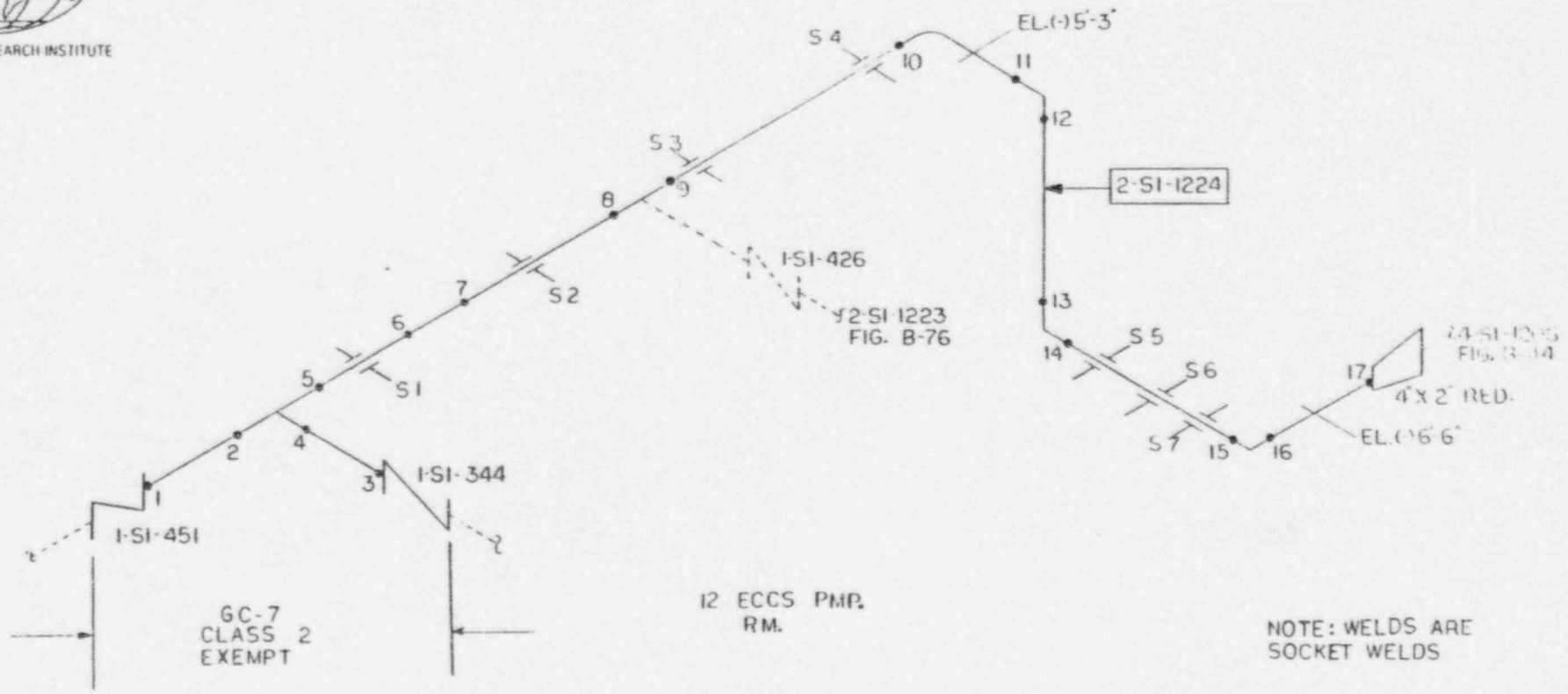

SwRI LINE No.	2-SI-1224
BG&E LINE No.	2-DC2-1004
NOM. O.D./SCH.	2/80
NOM. THICKNESS	0.218"
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74 (SH.1)	
REFERENCE DWG(s).	FSK-MP-103, -113	
FIGURE	B-77	
REV.	1	12-20-87

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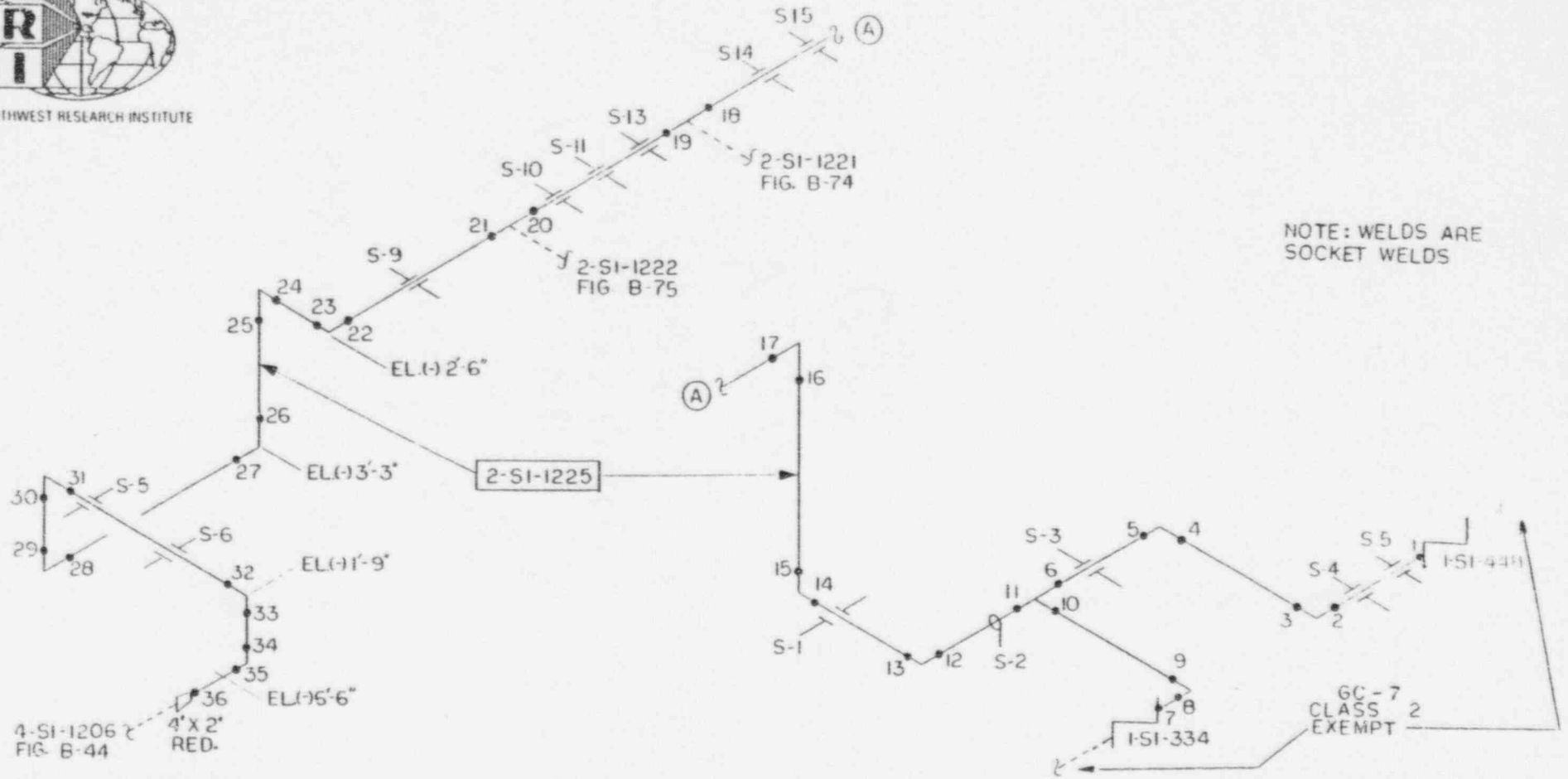
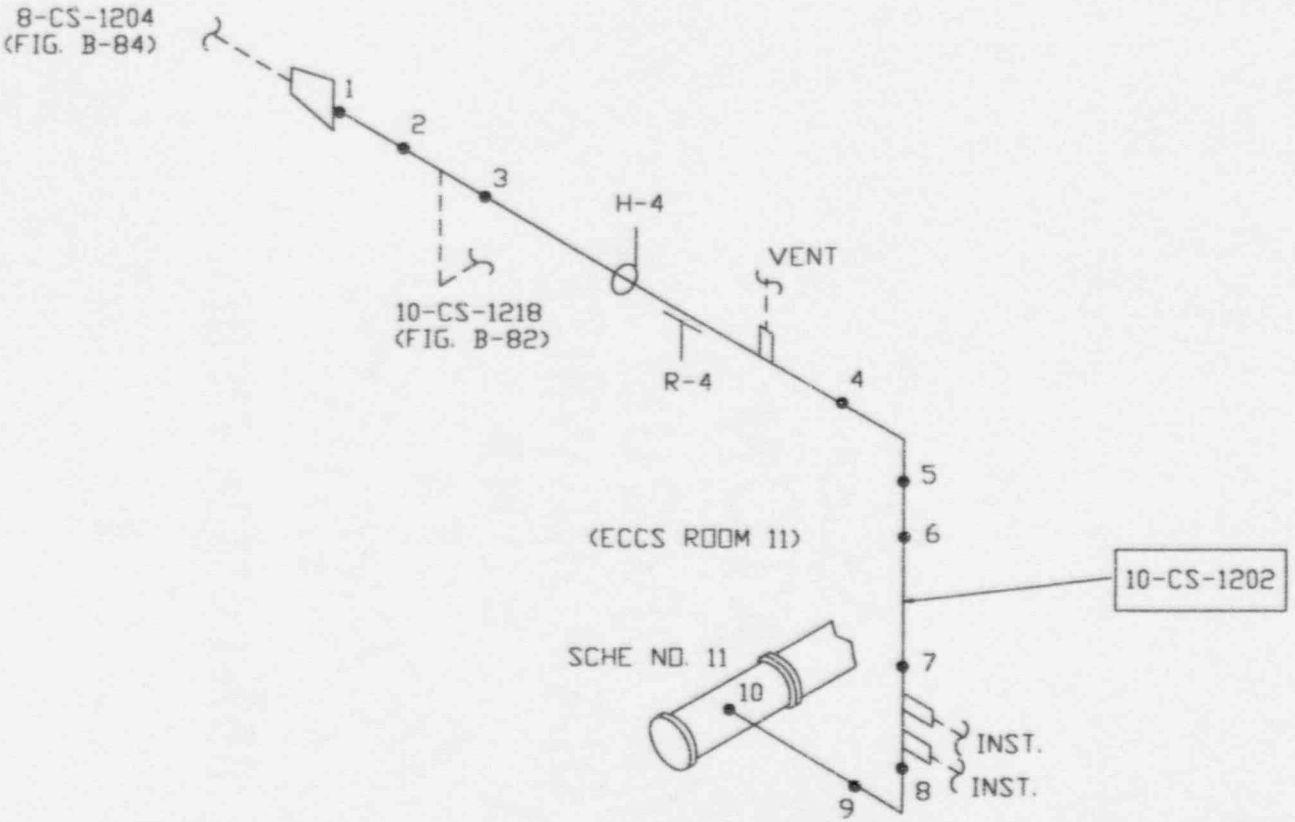


NOTE: WELDS ARE SOCKET WELDS

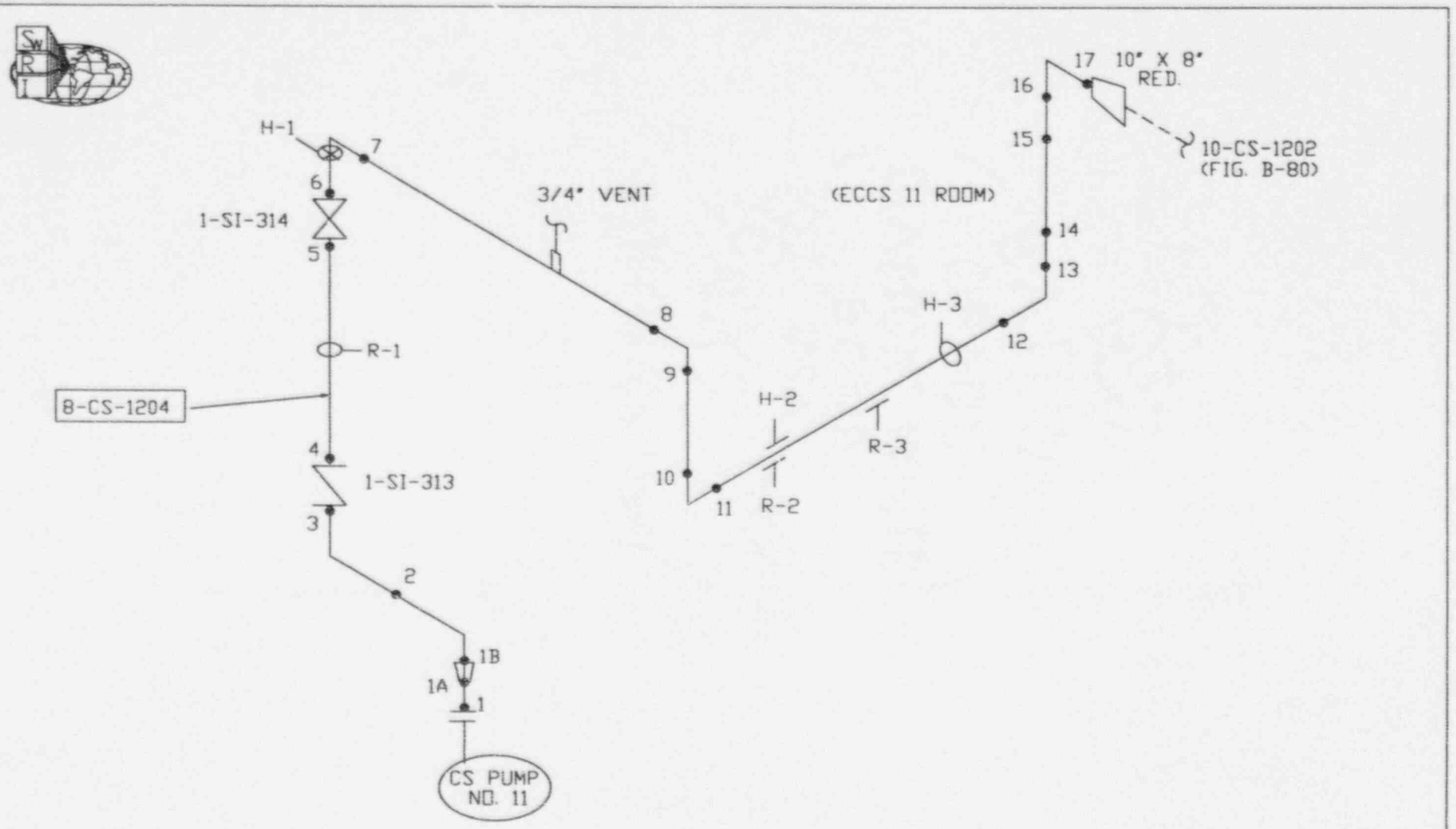
SwRI LINE No.	2 SI-1225
BG&E LINE No.	2-DC2-1005
NOM. O.D./SCH.	2/80
NOM. THICKNESS	0.218"
MATERIAL	SS
CAL. BLK.	N/A

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	FSK-MP-1782, 1783
FIGURE	B-78
REV.	1 12-20-87



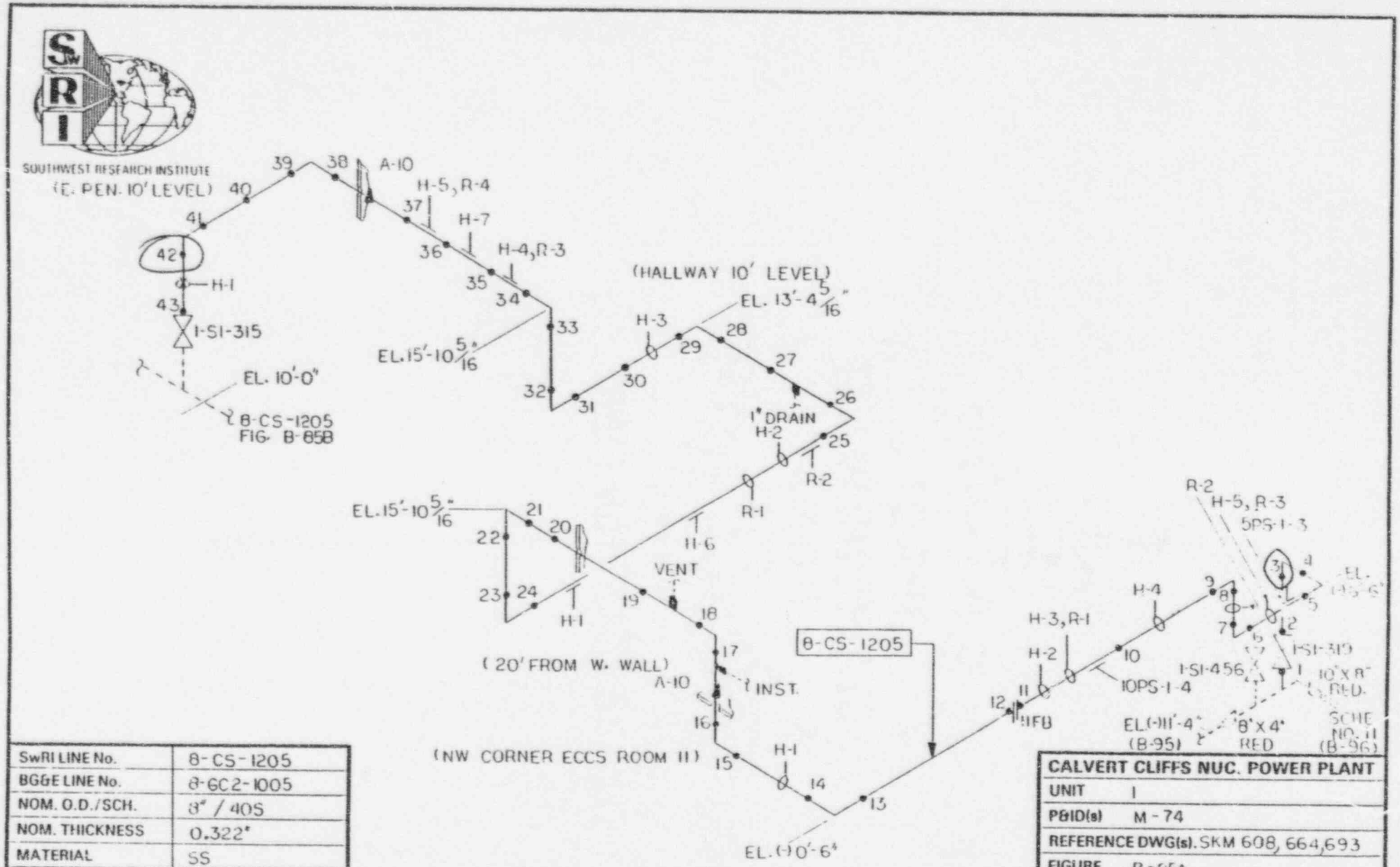
SwRI LINE No.	10-CS-1202
BG&E LINE No.	10-GC2-1002
NOM. O.D./SCH.	10"/20
NOM. THICKNESS	0.250"
MATERIAL	SS
CAL. BLK.	CC-48

CALVERT CLIFFS NUCLEAR POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s)		1-15-16
FIGURE	B-80	
REV.	0	11-9-90



SwRI LINE No.	8-CS-1204
BG&E LINE No.	8-GC2-1004
NOM. O.D./SCH.	8"/40S
NOM. THICKNESS	0.322"
MATERIAL	SS
CAL. BLK.	CC-45

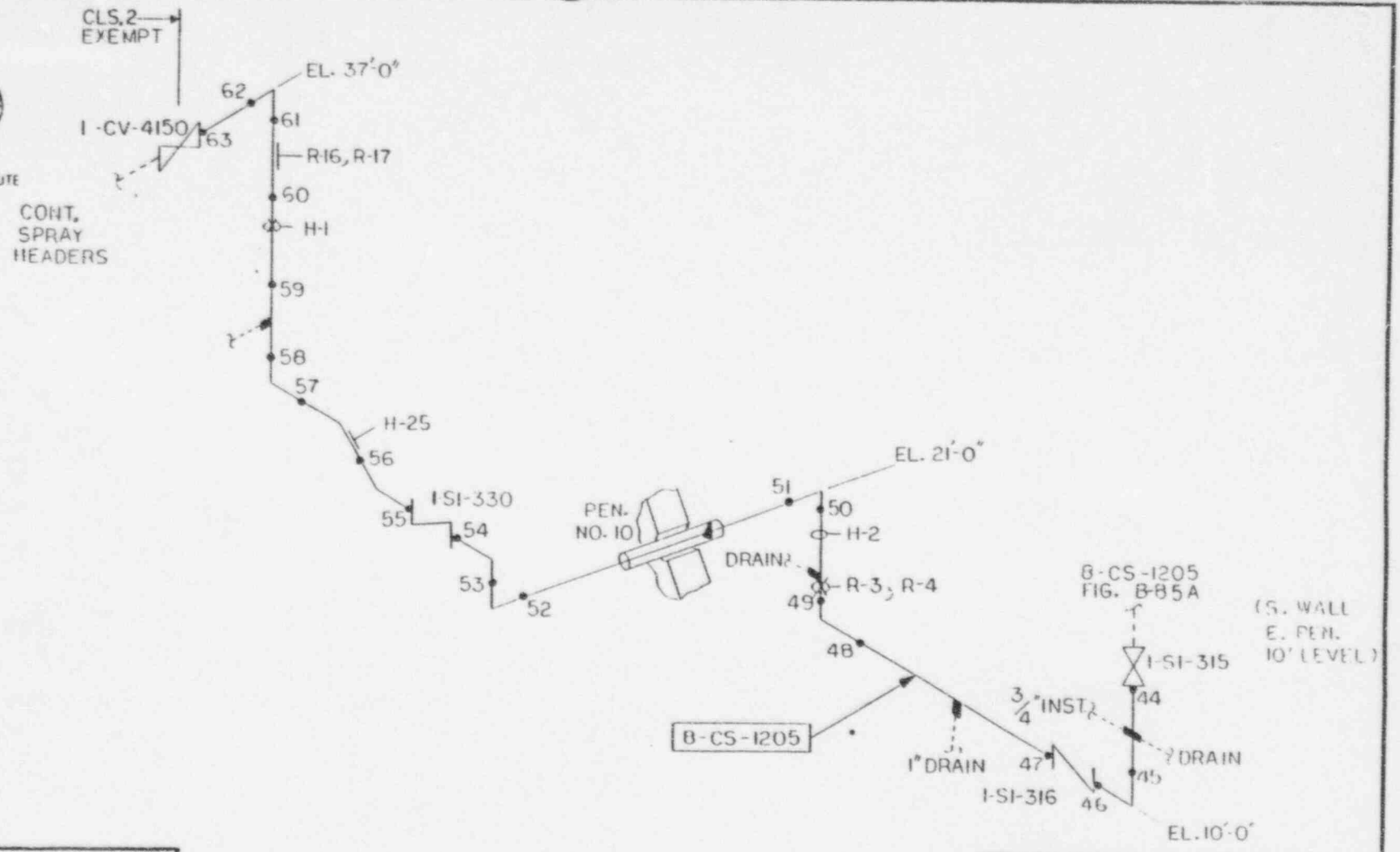
CALVERT CLIFFS NUCLEAR POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s)	1-15-6	
FIGURE	B-84	
REV.	1	10-17-95



SwRI LINE No.	8-CS-1205
BG&E LINE No.	8-GC2-1005
NOM. O.D./SCH.	8" / 40S
NOM. THICKNESS	0.322"
MATERIAL	SS
CAL. BLK.	CC-45

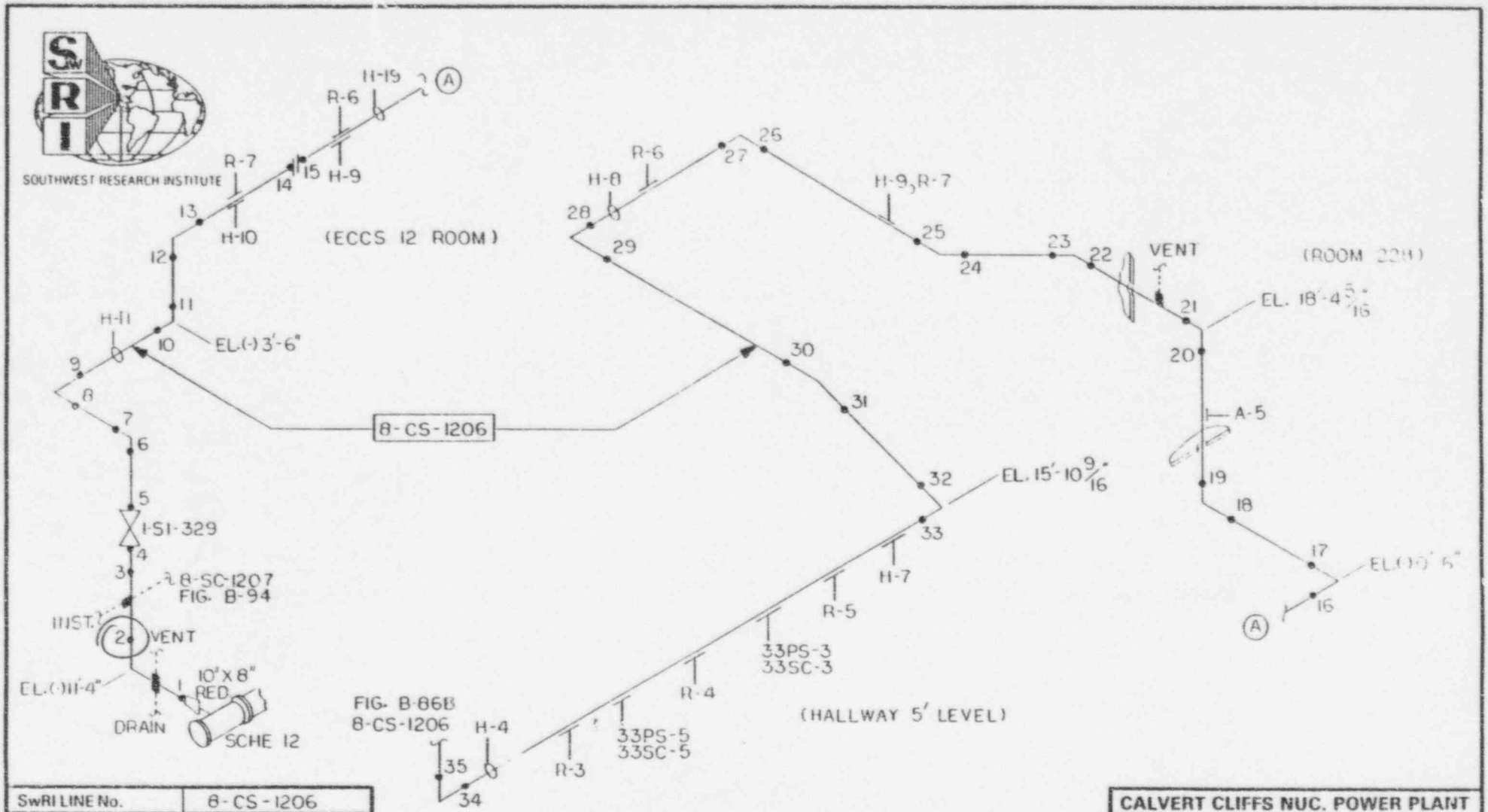
CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	SKM 608, 664, 693	
FIGURE	B-85A	
REV.	4	12-20-87

SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	8-CS-1205
BG&E LINE No.	8-HC33-1005
NOM. O.D./SCH.	8" / 10S
NOM. THICKNESS	0.148"
MATERIAL	SS
CAL. BLK.	CC-46

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	SKM 607, 664
FIGURE	B-85B
REV.	3 12-20-87



SwRI LINE No.	8-CS-1206
BG&E LINE No.	8-GC2-1006
NOM. O.D./SCH.	8"/40S
NOM. THICKNESS	0.322"
MATERIAL	SS
CAL. BLK.	CC-45

* 1-15-18, 1-16-1, 1-16-2, 1-16-49, 1-17-55, 1-18-10, 1-19-7, 1-19-11

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	*	
FIGURE	B-86A	
REV.	2	12-20-87

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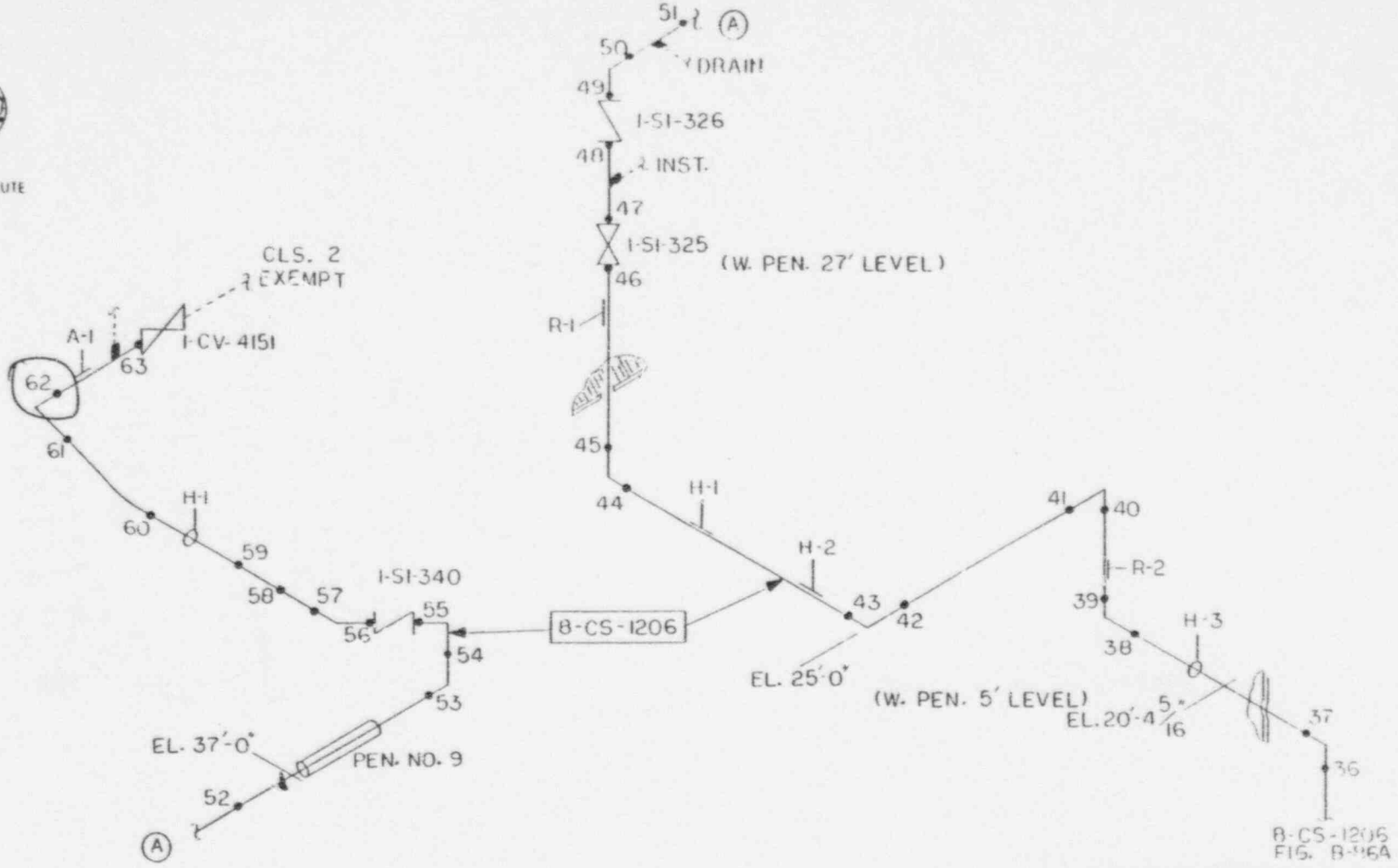
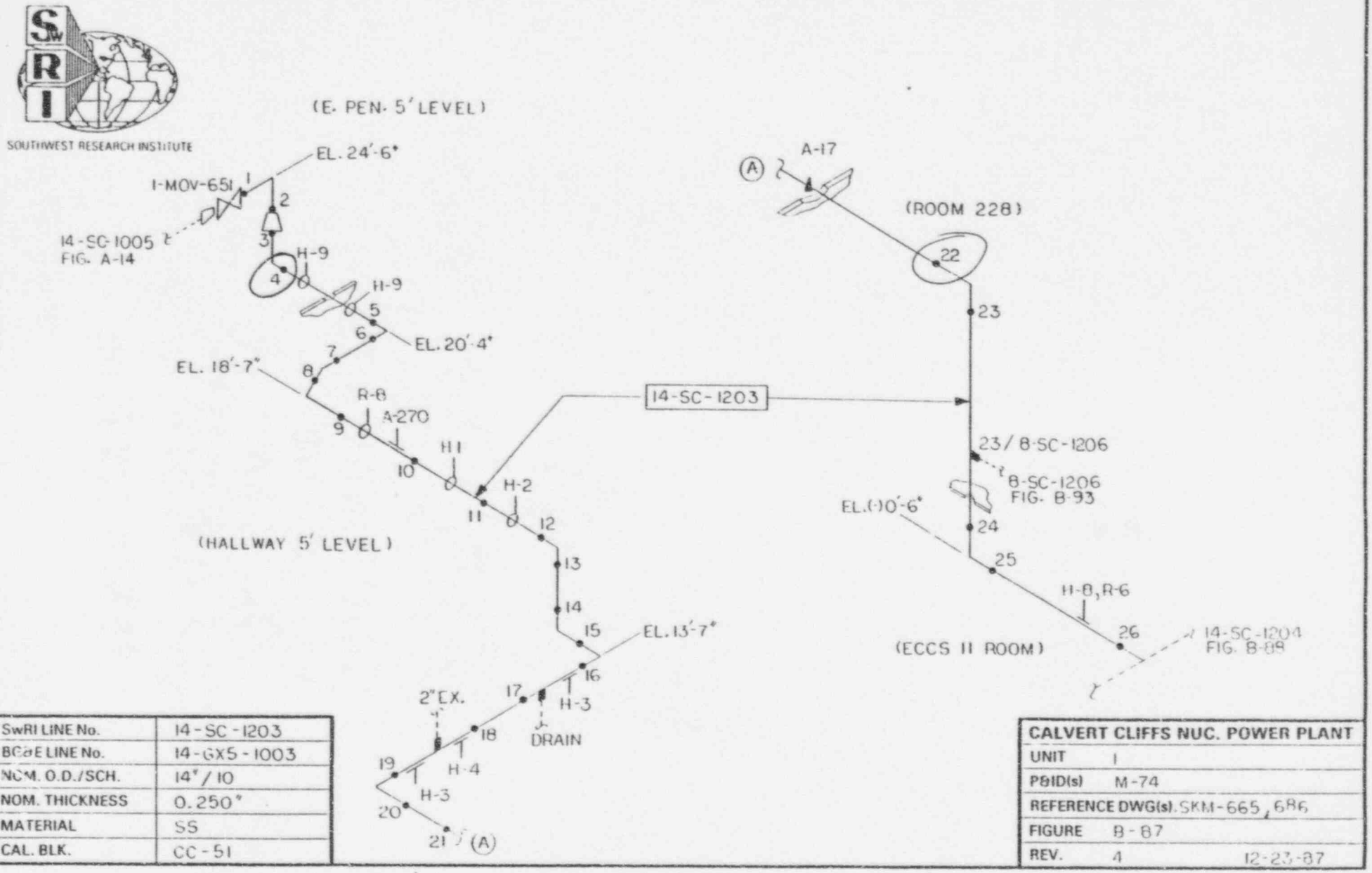


SwRI LINE No.	8-CS-1206
BG&E LINE No.	8-[illegible]3-1001
NOM. O.D./SCH.	8"/40S & 40S
NOM. THICKNESS	0.322" & 0.148"
MATERIAL	SS
CAL. BLK.	CC-45 CC-46

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	1-23-1, 1-102-5, -6	
FIGURE	B-86B	
REV.	2	12-20-87



SwRI LINE No.	14-SC-1203
BG&E LINE No.	14-GX5-1003
NOM. O.D./SCH.	14"/10
NOM. THICKNESS	0.250"
MATERIAL	SS
CAL. BLK.	CC-51

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	SKM-665, 686	
FIGURE	B-87	
REV.	4	12-23-87

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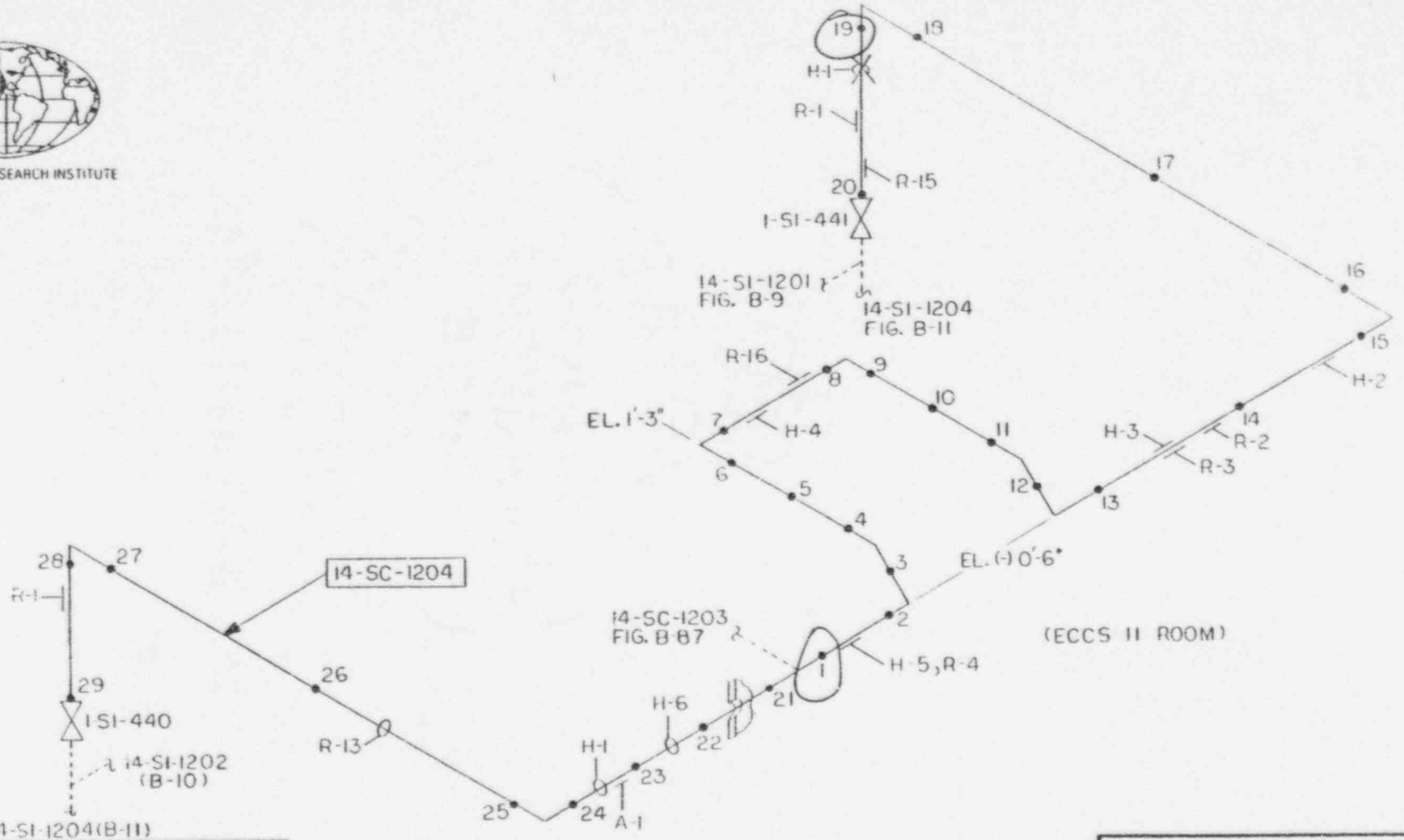
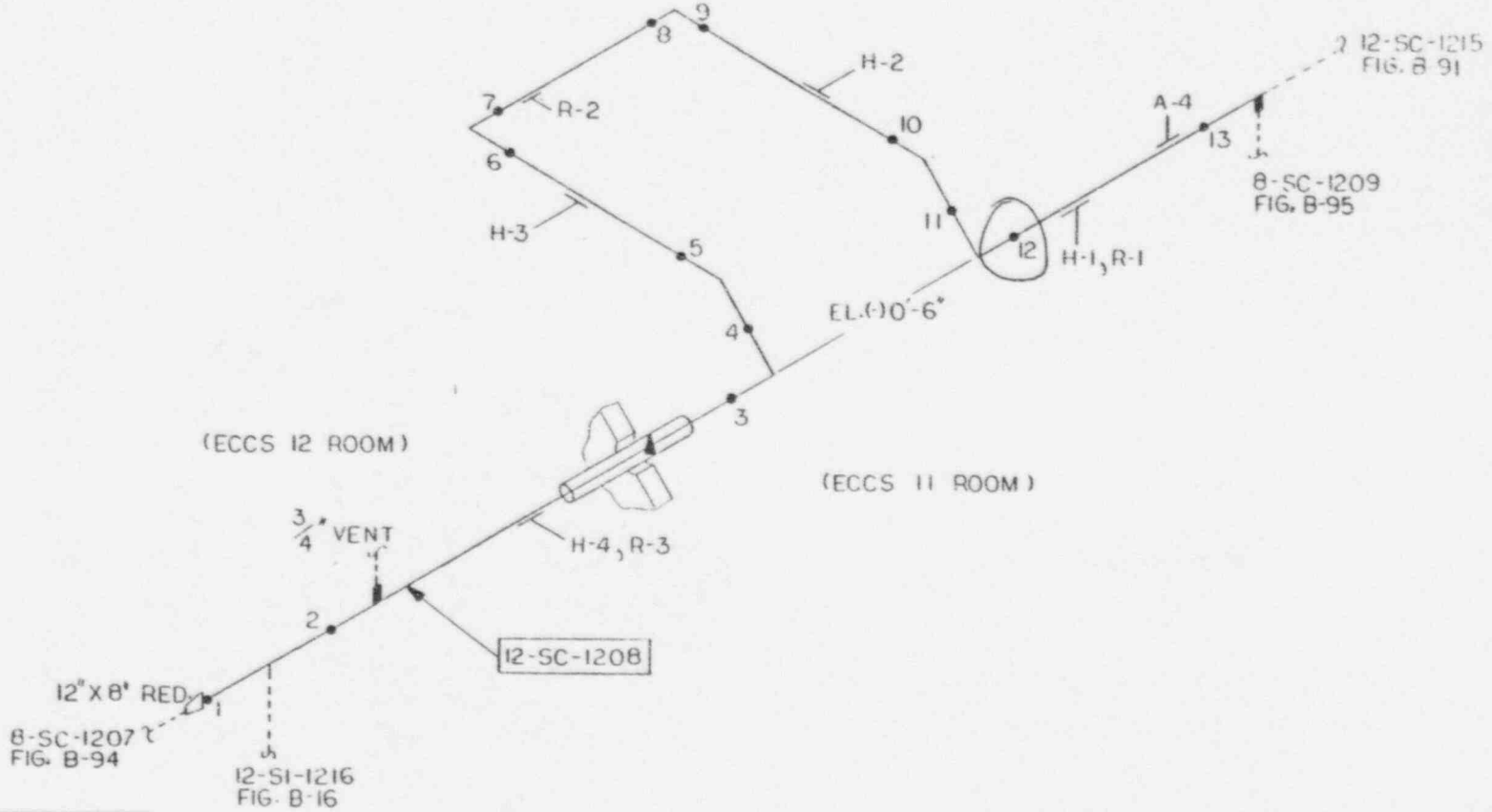


SwRI LINE No.	14-SC-1204
BG&E LINE No.	14-GCS-1004
NOM. O.D./SCH.	14" / 10
NOM. THICKNESS	0.250"
MATERIAL	SS
CAL. BLK.	CC-51

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	SKM-608	
FIGURE	B-88	
REV.	3	12-23-87

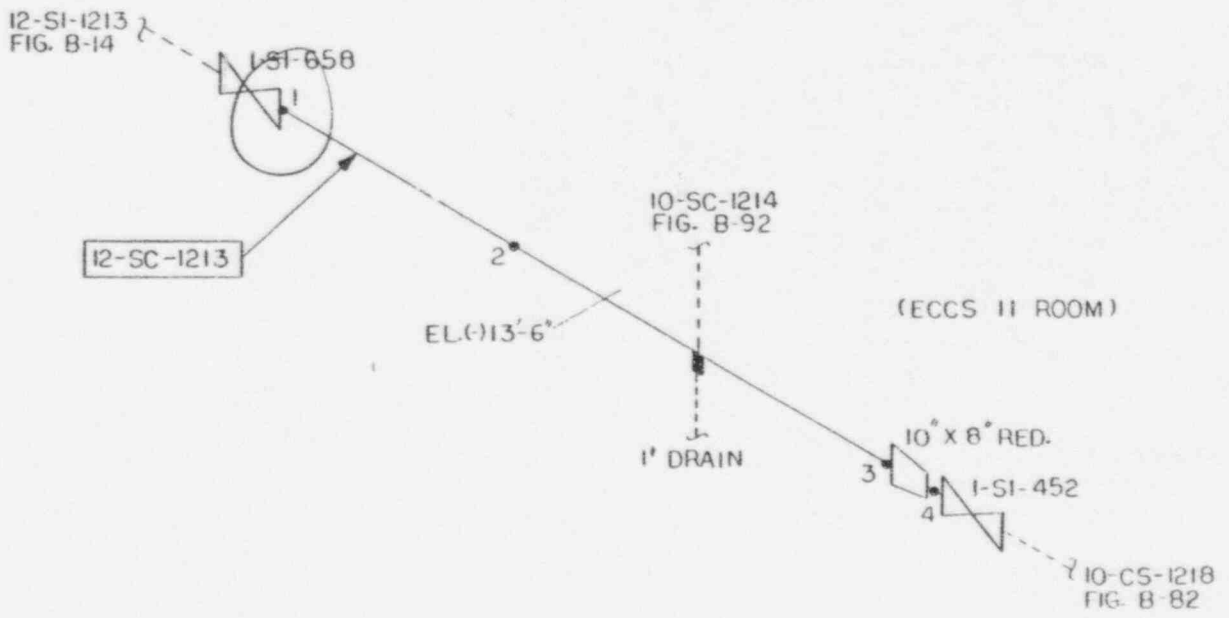
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	12-SC-1208
BG&E LINE No.	12-GC2-1008
NOM. O.D./SCH.	12"/20
NOM. THICKNESS	0.250"
MATERIAL	SS
CAL. BLK.	CC-50

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	SKM-1008	
FIGURE	B-89	
REV.	3	12-23-87

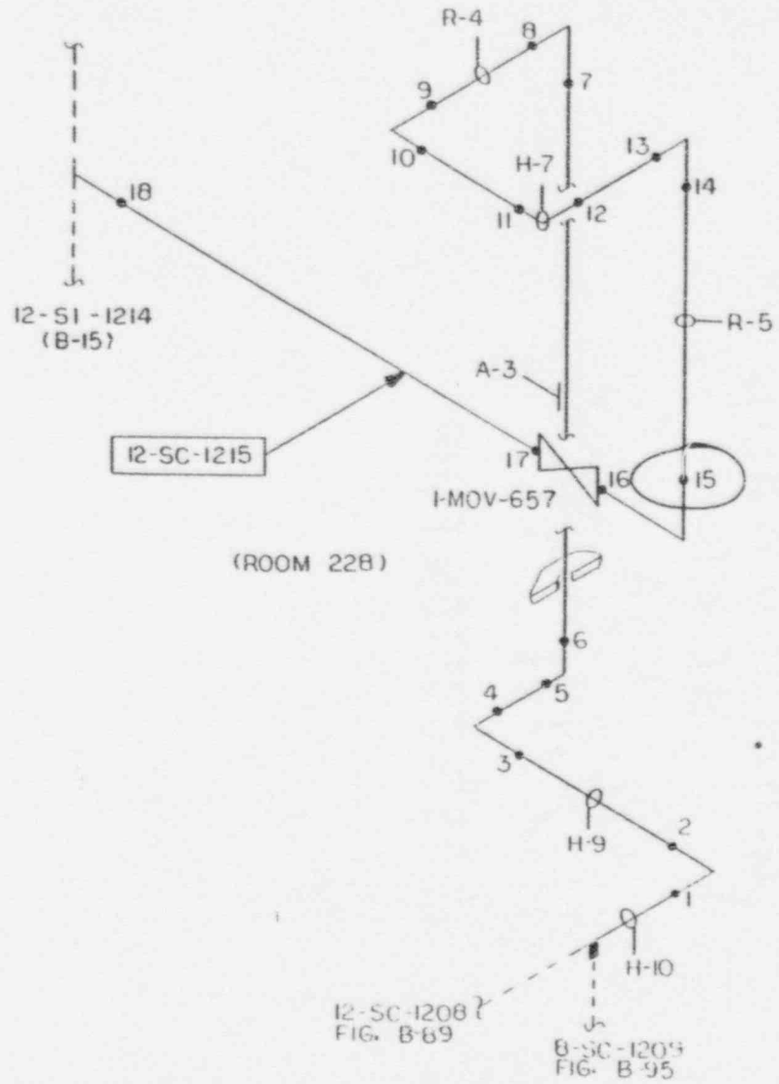
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	12-SC-1213
BG&E LINE No.	12-GCI-1013
NOM. O.D./SCH.	12" / 20
NOM. THICKNESS	0.250"
MATERIAL	SS
CAL. BLK.	CC-50

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	1-15-10	
FIGURE	B-90	
REV.	3	12-23-87

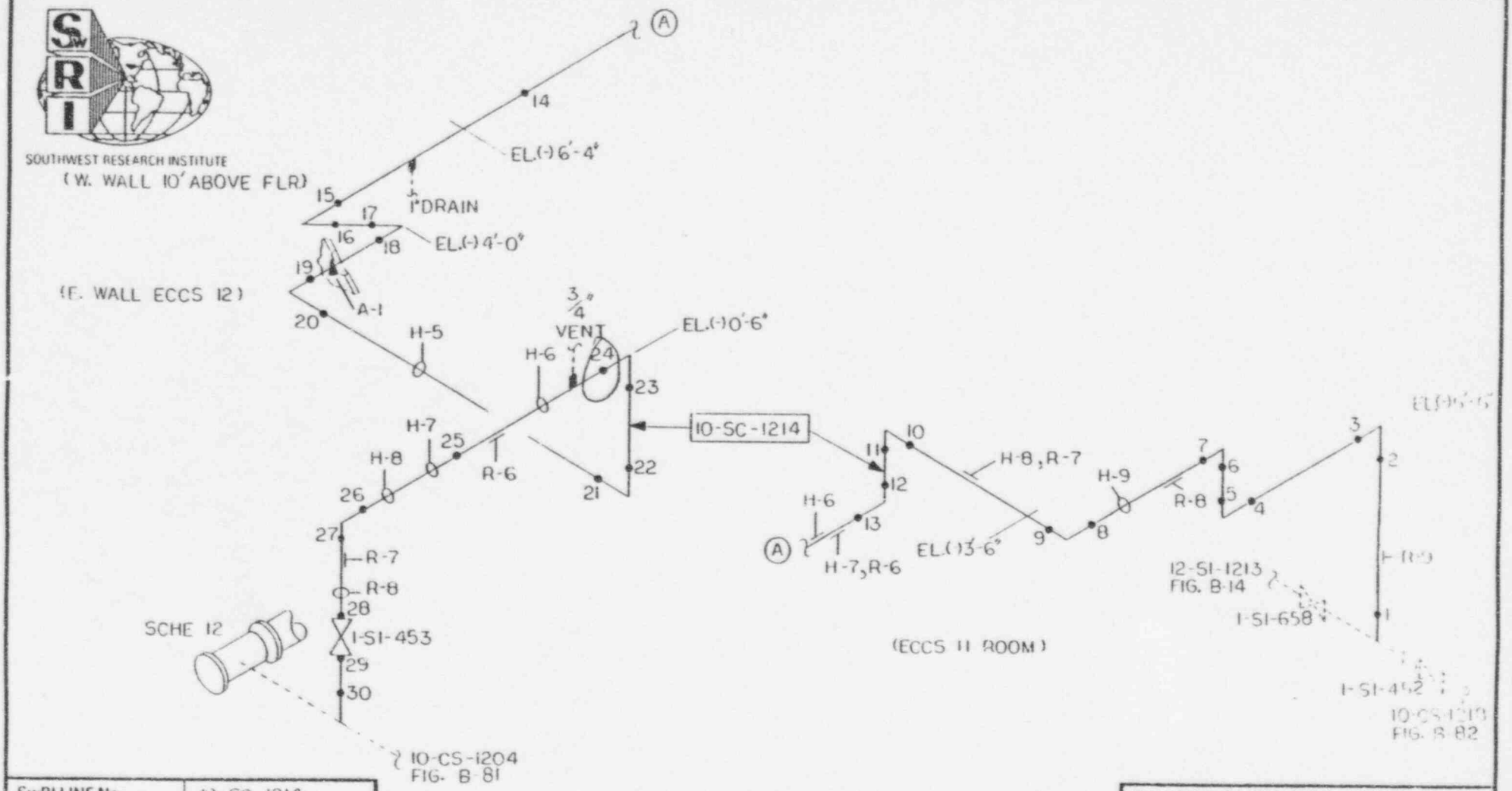
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	12-SC-1215
BG&E LINE No.	12-GCI-1015
NOM. O.D./SCH.	12" / 20S
NOM. THICKNESS	0.250"
MATERIAL	SS
CAL. BLK.	CC-50

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	1-15-7, 1-15-21
FIGURE	B-91
REV.	4 12-23-87

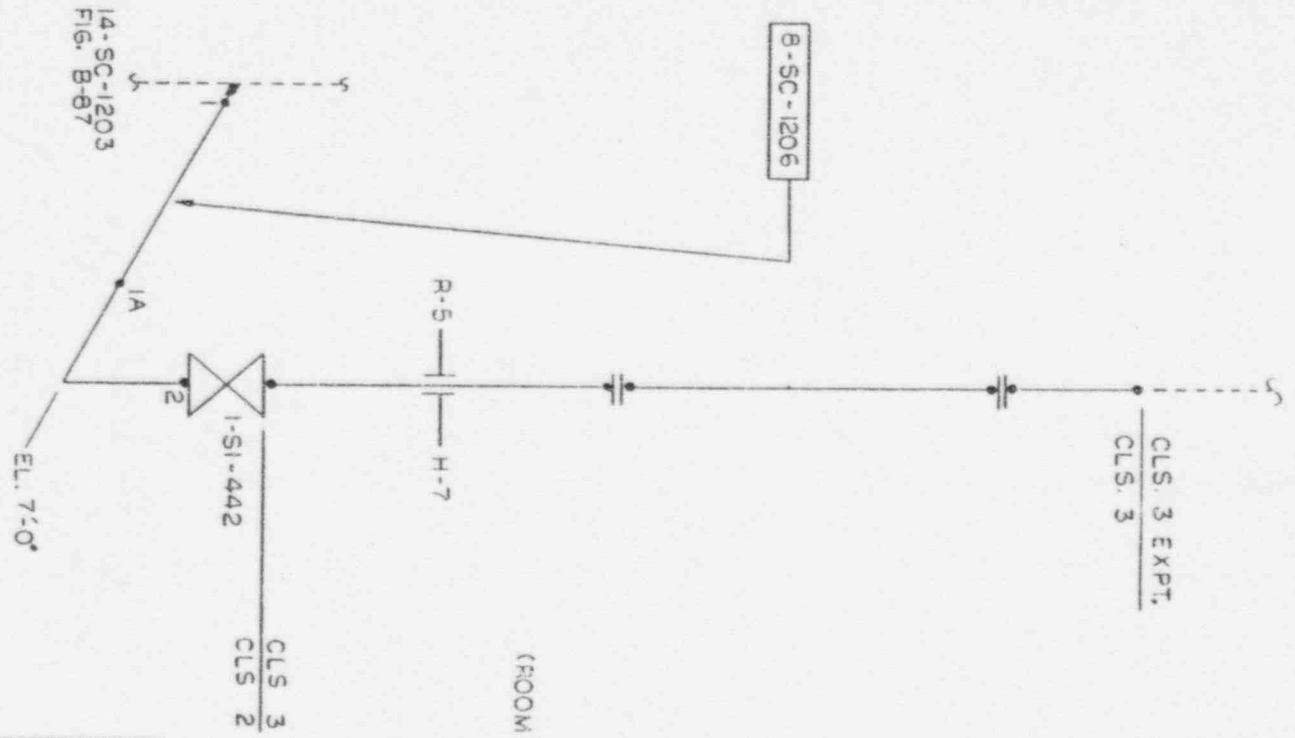
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	10-SC-1214
BG&E LINE No.	10-GCI-1014
NOM. O.D./SCH.	10" / 20
NOM. THICKNESS	0.250"
MATERIAL	SS
CAL. BLK.	CC-48

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	1-15-10, -11, 1-15-5
FIGURE	B-92
REV.	4 12-23-87

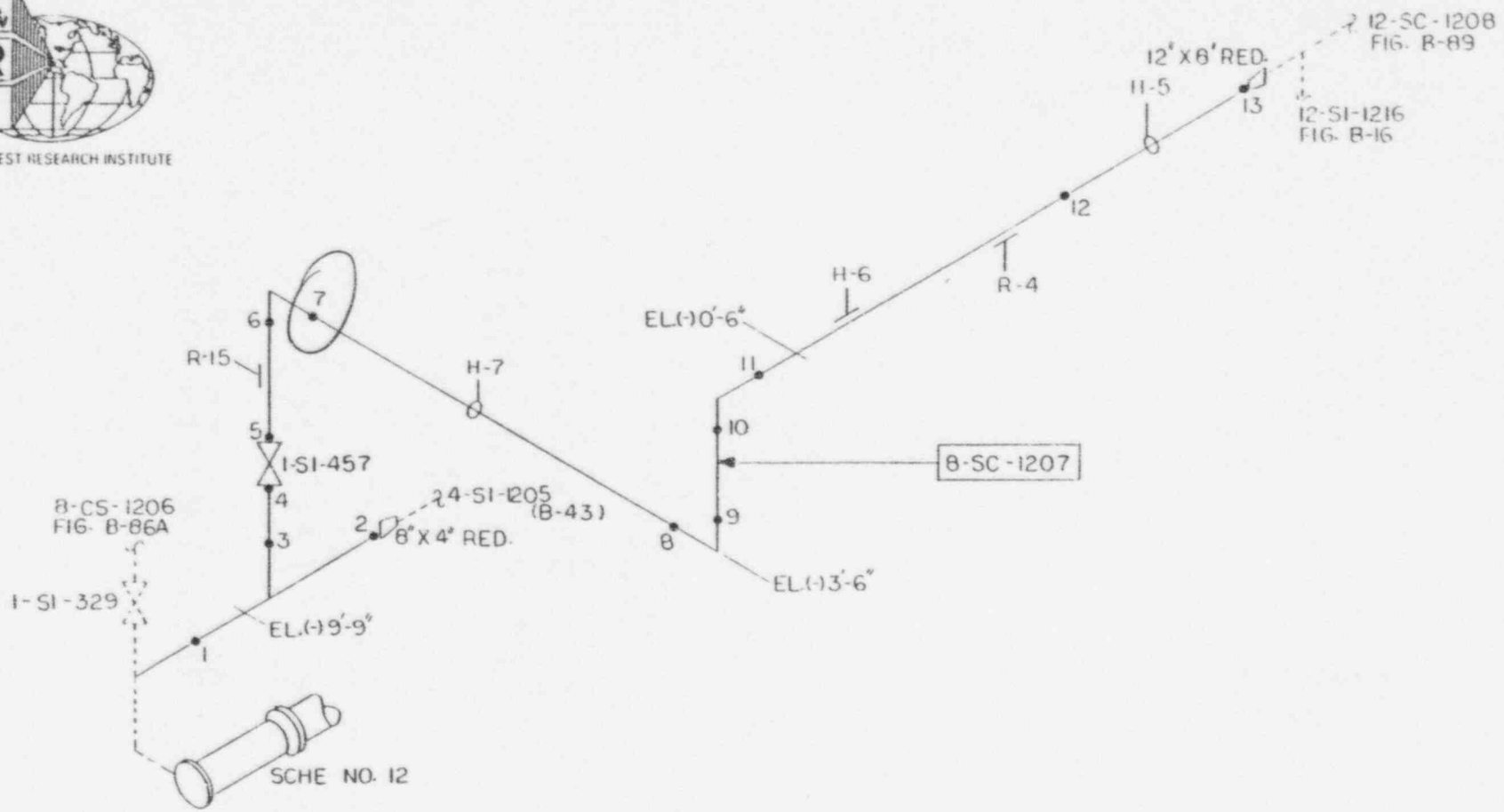
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	8-SC-1206
BG&E LINE No.	8-GCS-1006
NOM. O.D./SCH.	8" / 40S
NOM. THICKNESS	0.322"
MATERIAL	SS
CAL. BLK.	CC-45

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	1-15-24
FIGURE	B-93
REV.	3 12-29-87

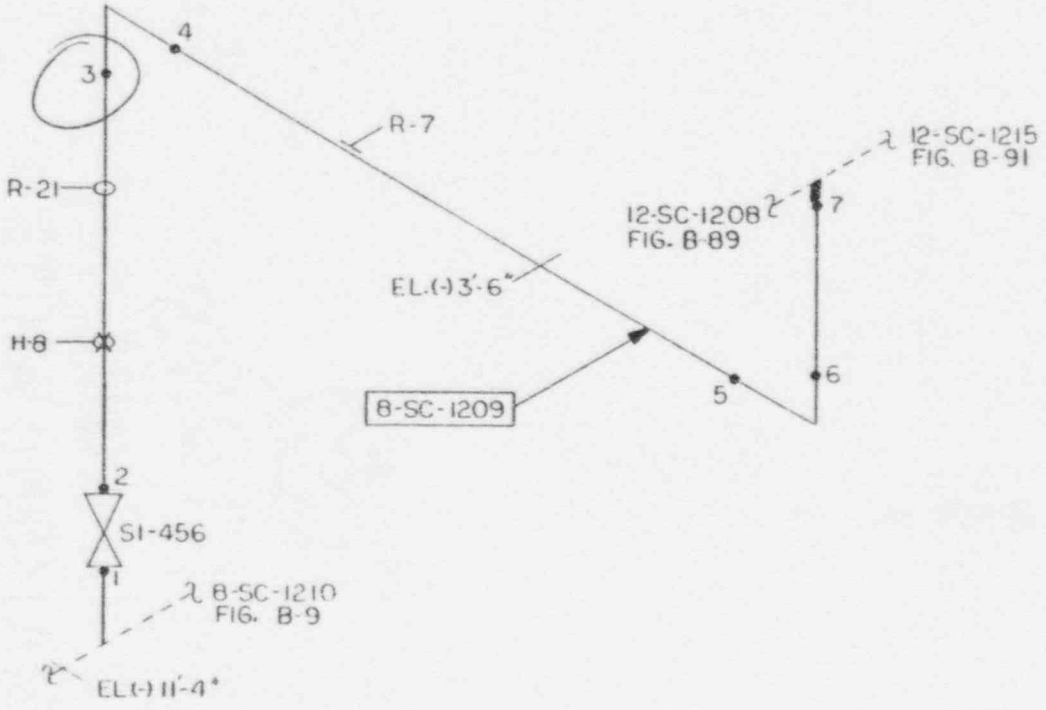
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	8-SC-1207
BG&E LINE No.	8-GC2-1007
NOM. O.D./SCH.	8" / 40S
NOM. THICKNESS	0.322"
MATERIAL	SS
CAL. BLK.	CC-45

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	1-16-1	
FIGURE	B-94	
REV.	3	12-29-87

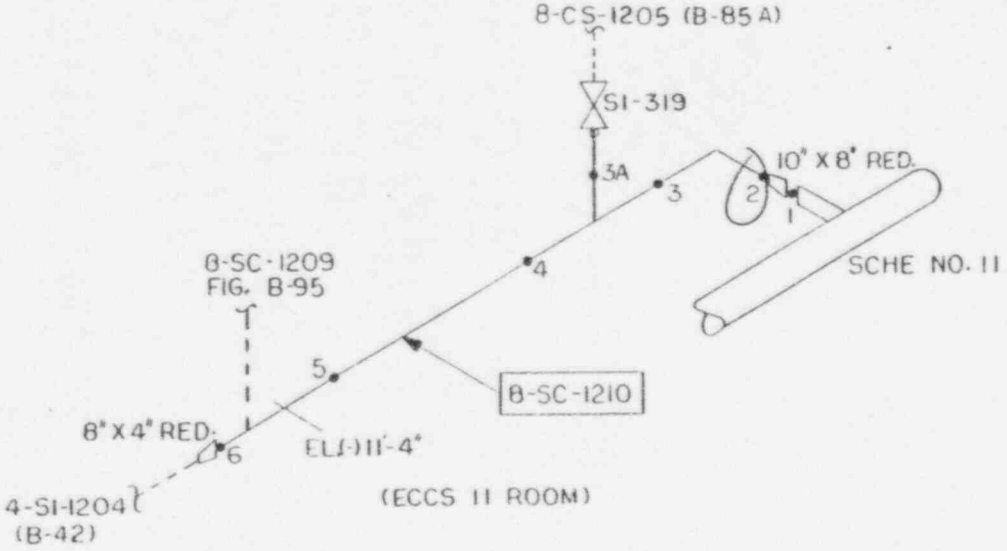
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	8-SC-1209
BG&E LINE No.	8-GC2-1009
NOM. O.D./SCH.	8"/40S
NOM. THICKNESS	0.322"
MATERIAL	SS
CAL. BLK.	CC-45

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-74
REFERENCE DWG(s).	115-114-15-7
FIGURE	B-35
REV.	1 12-29-87

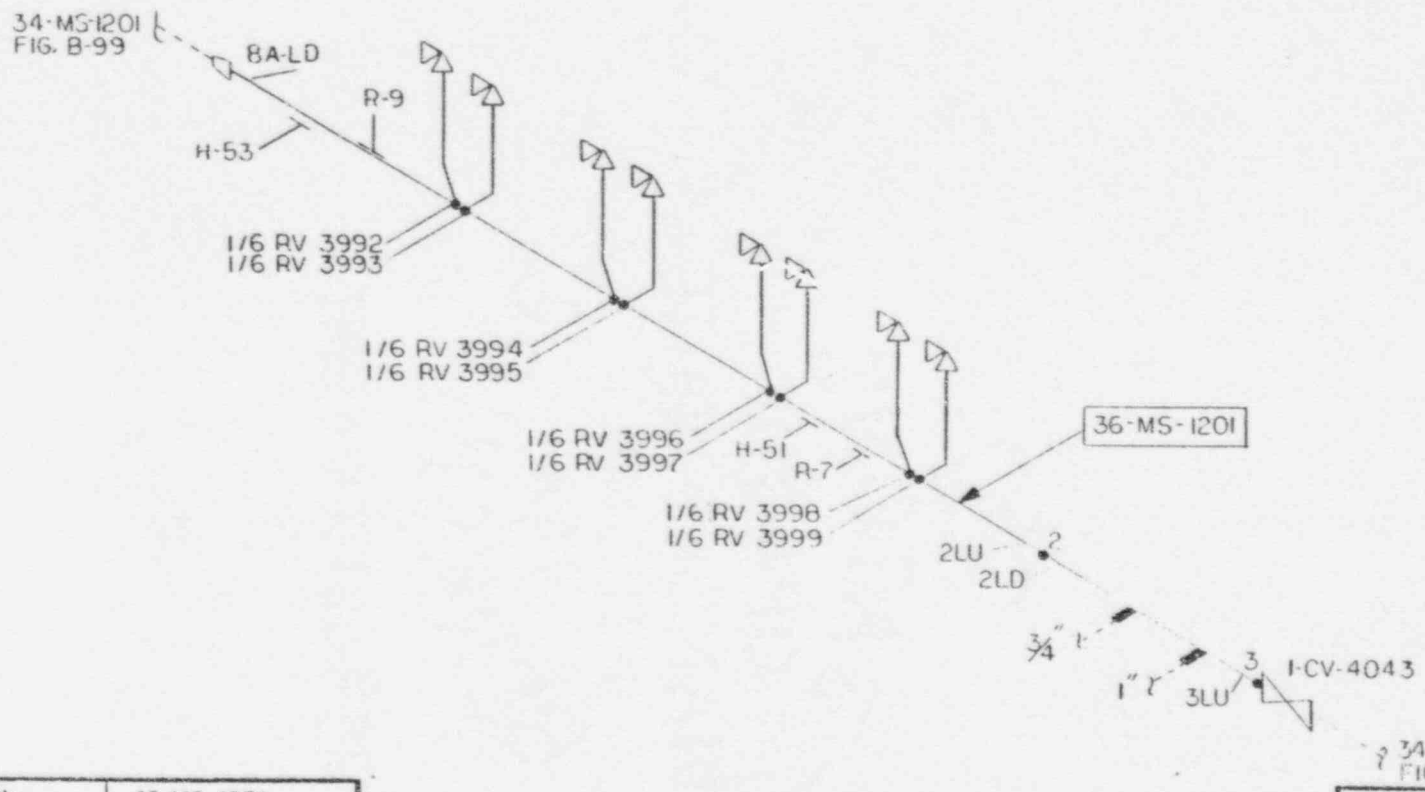
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	8-SC-1210
BG&E LINE No.	8-GC2-1010
NOM. O.D./SCH.	8"/40S
NOM. THICKNESS	0.322"
MATERIAL	SS
CAL. BLK.	CC-45

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-74	
REFERENCE DWG(s).	1-15-1, 1-15-7	
FIGURE	B-96	
REV.	4	12-15-87

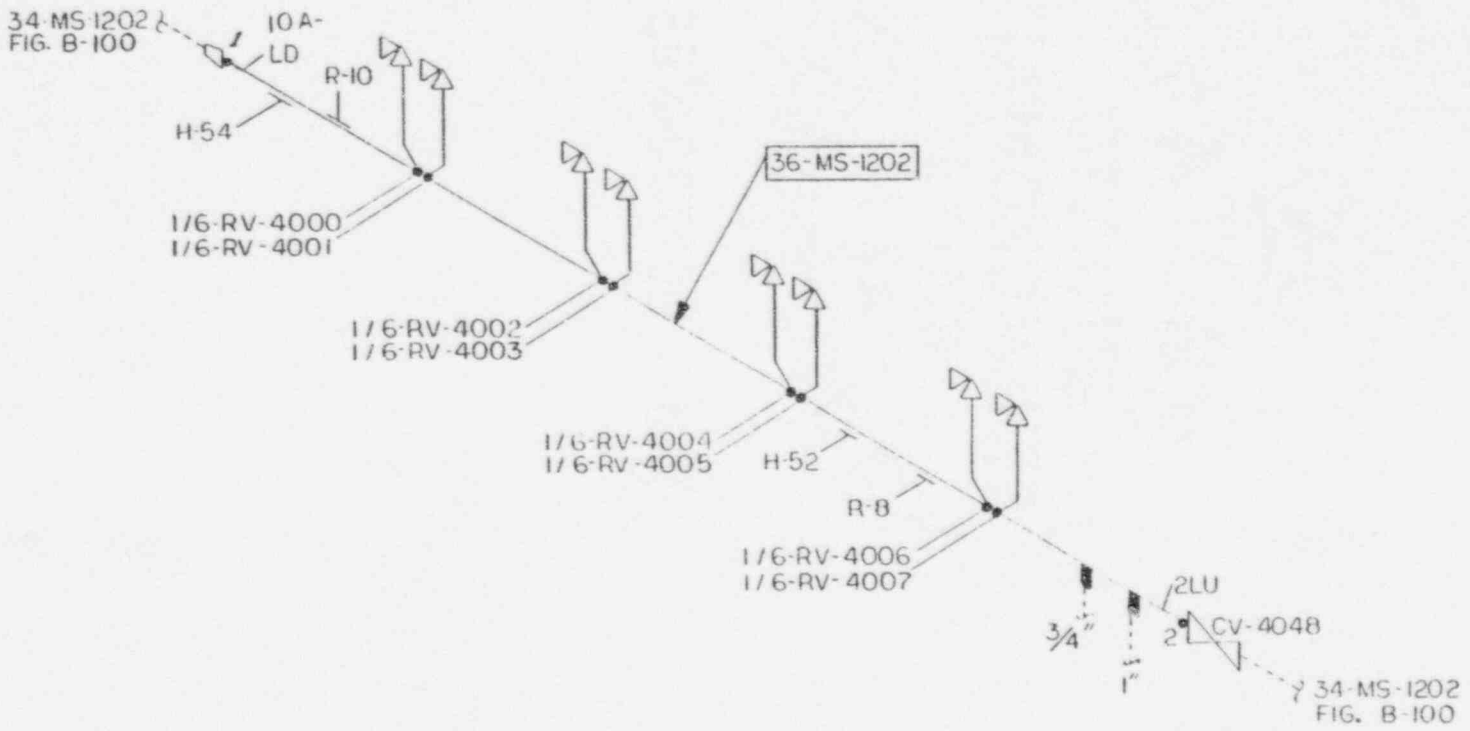
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	36-MS-1201
BG&E LINE No.	36-EB-12-1001
NOM. O.D./SCH.	36?
NOM. THICKNESS	2.150"
MATERIAL	CS
CAL. BLK.	CC-23

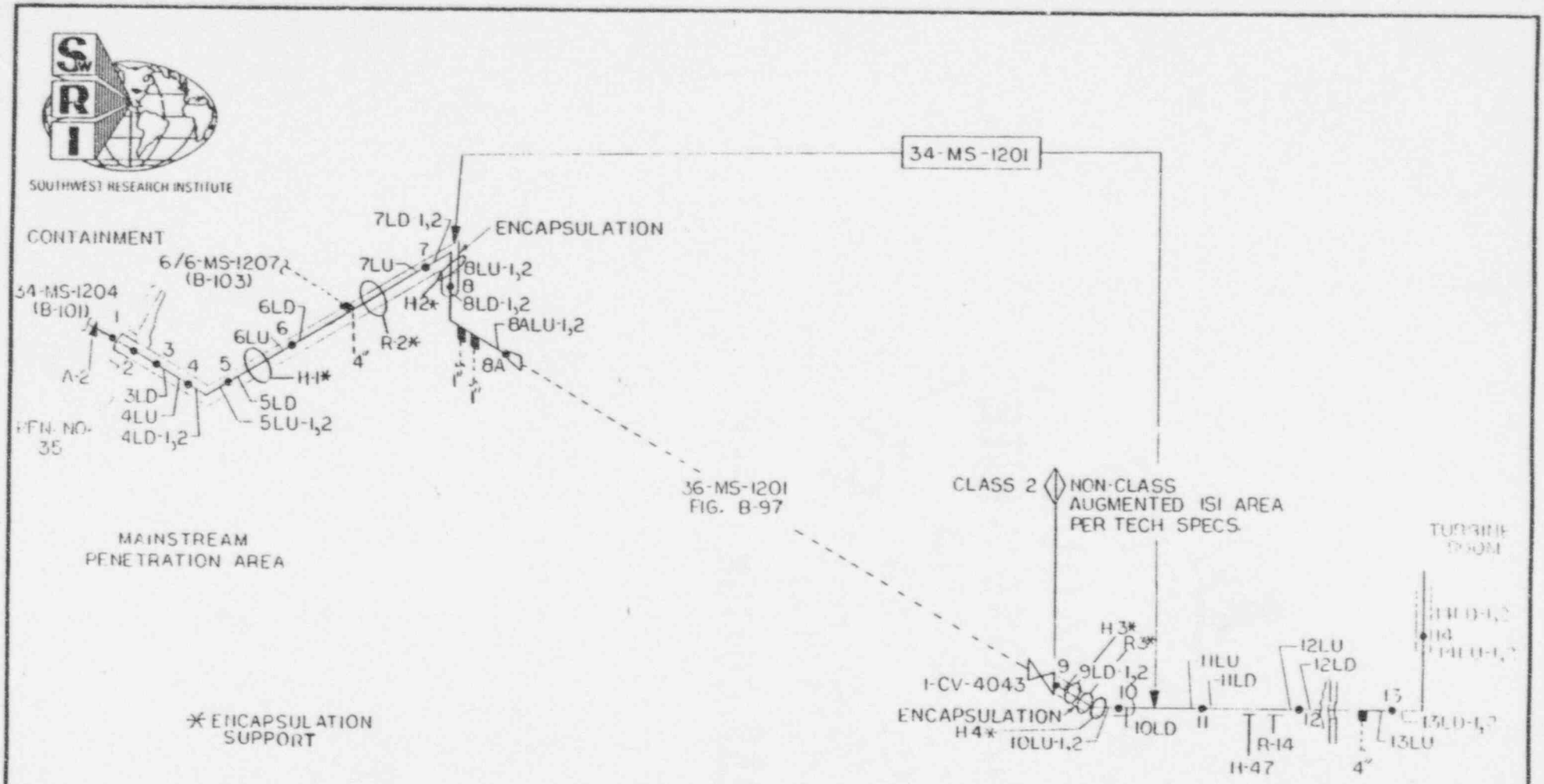
CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-35
REFERENCE DWG(s).	1-104-4
FIGURE	B-37
REV.	1 12-20-87

SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	36-MS-1202
BG&E LINE No.	36-EB-12-1002
NOM. O.D./SCH.	36"/
NOM. THICKNESS	2.150"
MATERIAL	CS
CAL. BLK.	CC-23

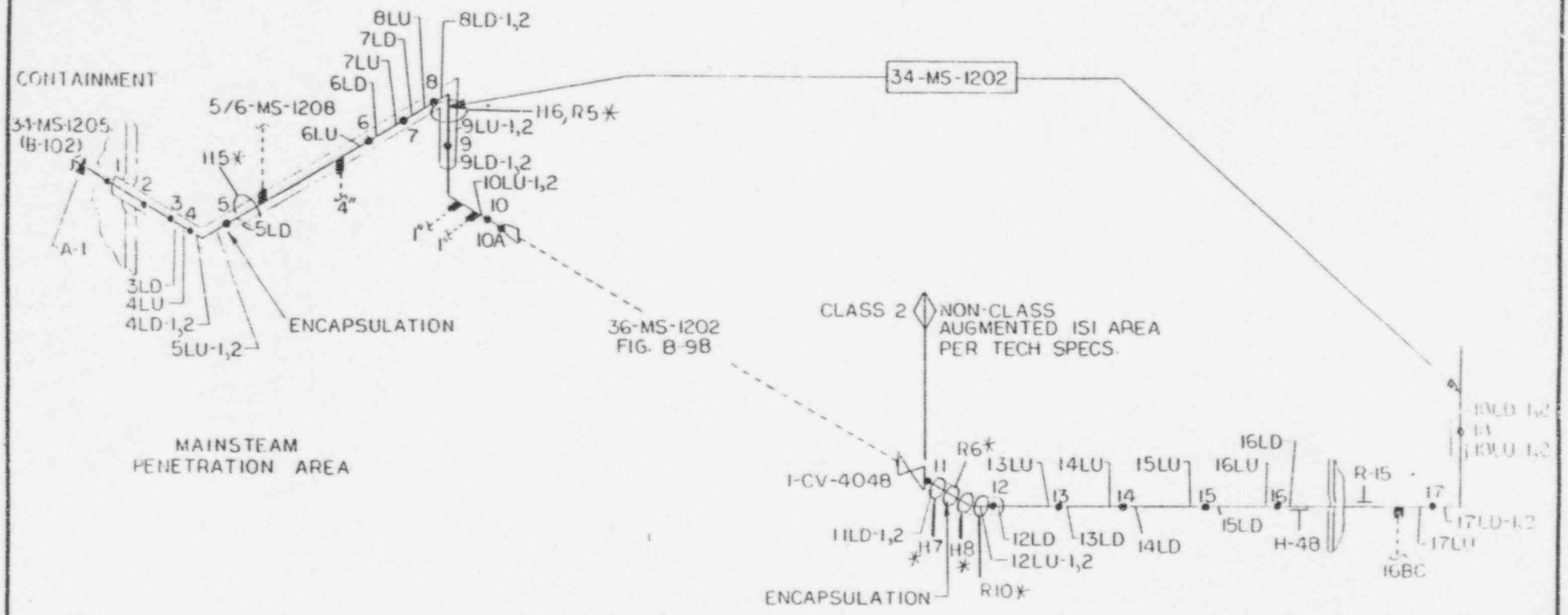
CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-35
REFERENCE DWG(s).	1-101-3
FIGURE	B-98
REV.	1 12-29-87



SwRI LINE No.	34-MS-1201
BG&E LINE No.	34-EB12-1001
NOM. O.D./SCH.	34"/
NOM. THICKNESS	1.060"
MATERIAL	CS
CAL. BLK.	CC-38

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-35	
REFERENCE DWG(s).	1-101-4, SKM-864	
FIGURE	B-99	
REV.	4	12-20-97

SOUTHWEST RESEARCH INSTITUTE

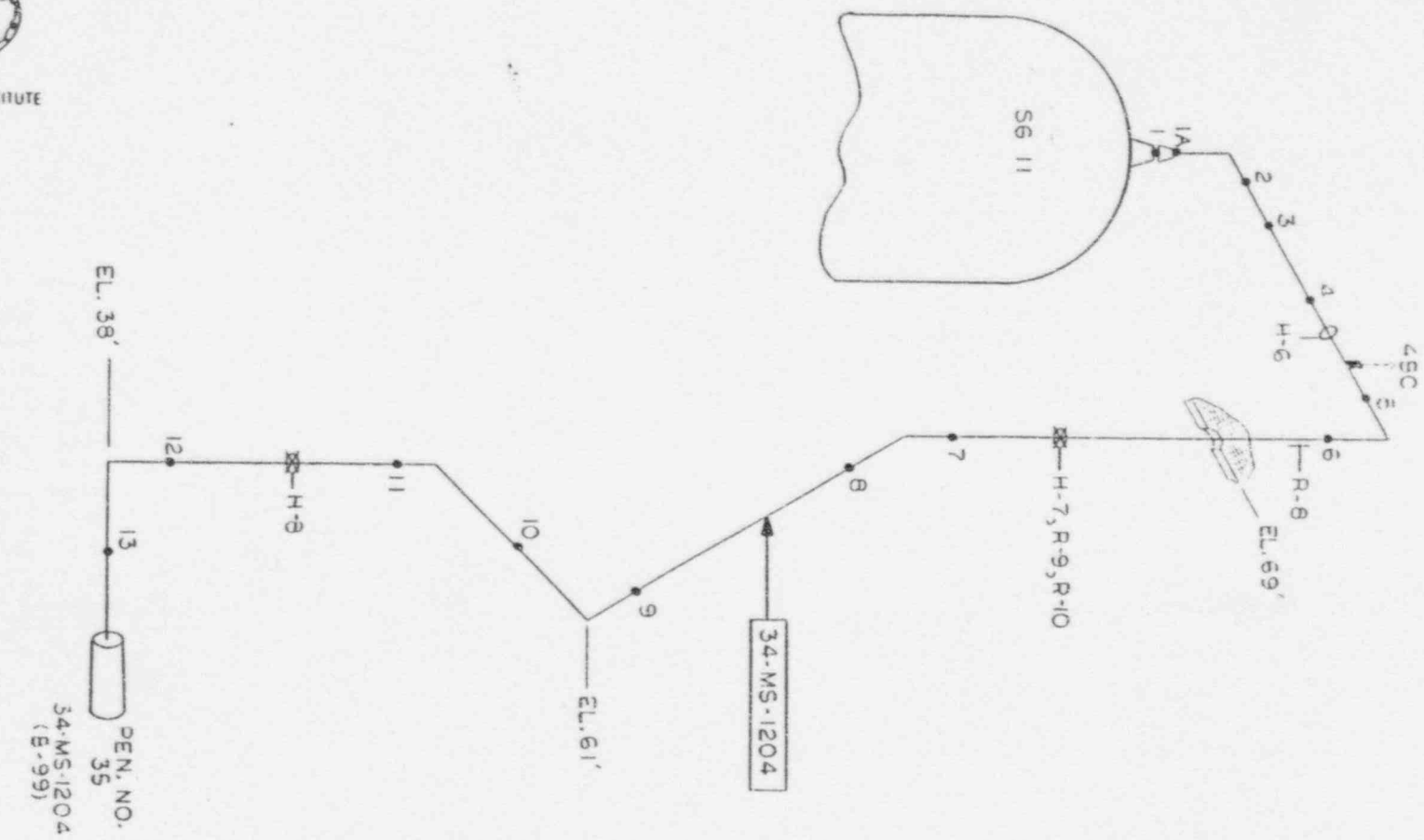


*ENCAPSULATION SUPPORT

SwRI LINE No.	34-MS-1202
BG&E LINE No.	34-EB12-1002
NOM. O.D./SCH.	34"/
NOM. THICKNESS	1.060"
MATERIAL	CS
CAL. BLK.	CC-38

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-35
REFERENCE DWG(s).	1-101-3 SKM-864
FIGURE	B-100
REV.	4 12-20-87

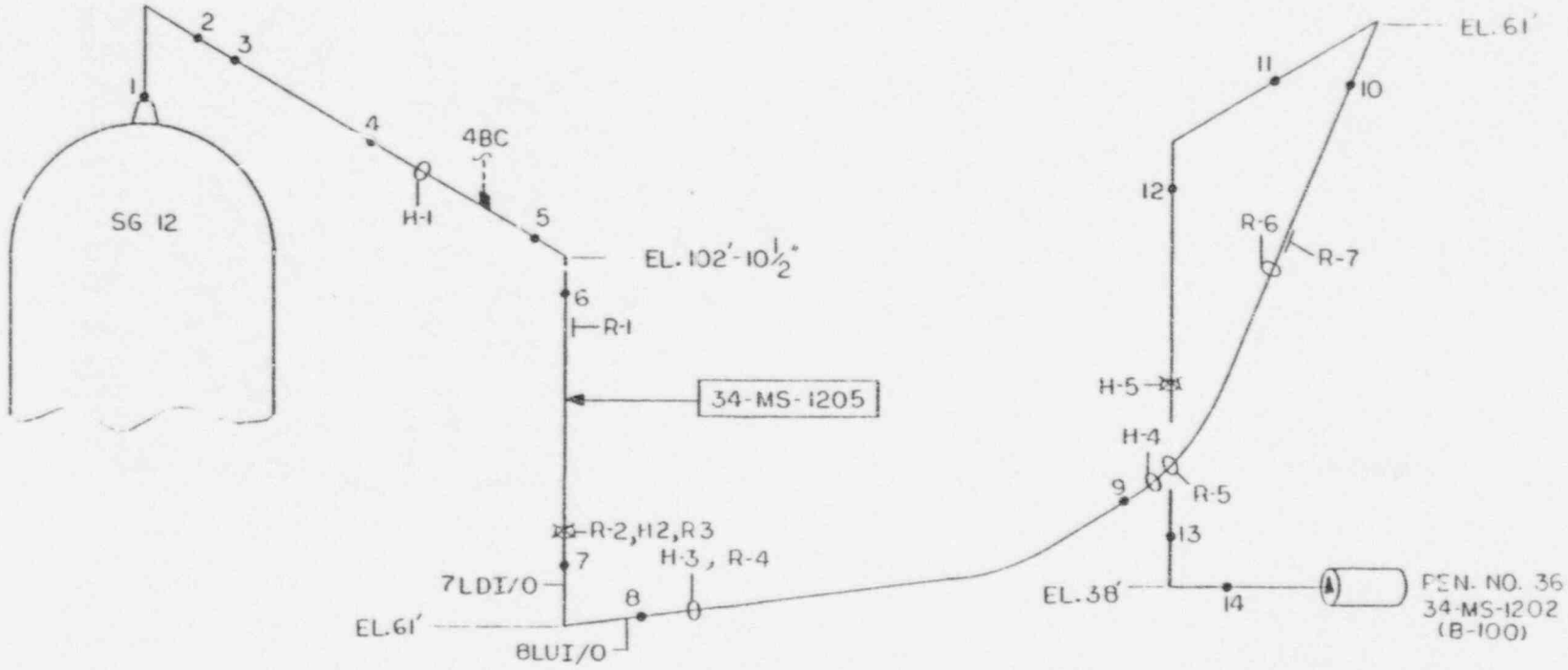
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	34-MS-1204
BG&E LINE No.	34-EBI-1004
NOM. O.D./SCH.	34"/
NOM. THICKNESS	1.060"
MATERIAL	CS
CAL. BLK.	CC-38

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-35
REFERENCE DWG(s).	1-101-1
FIGURE	B-101
REV.	3 12-29-87

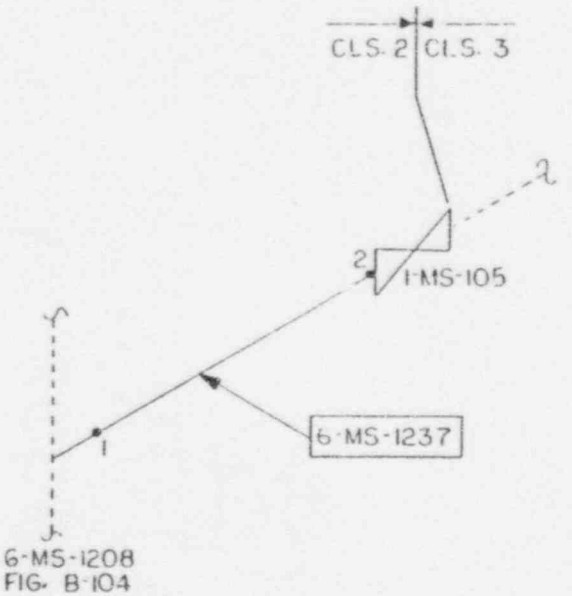
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	34-MS-1205
BG&E LINE No.	34-EBI-1005
NOM. O.D./SCH.	34" /
NOM. THICKNESS	1.060"
MATERIAL	CS
CAL. BLK.	CC-38

CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M-35	
REFERENCE DWG(s).	1-101-2	
FIGURE	B-102	
REV.	3	12-29-87

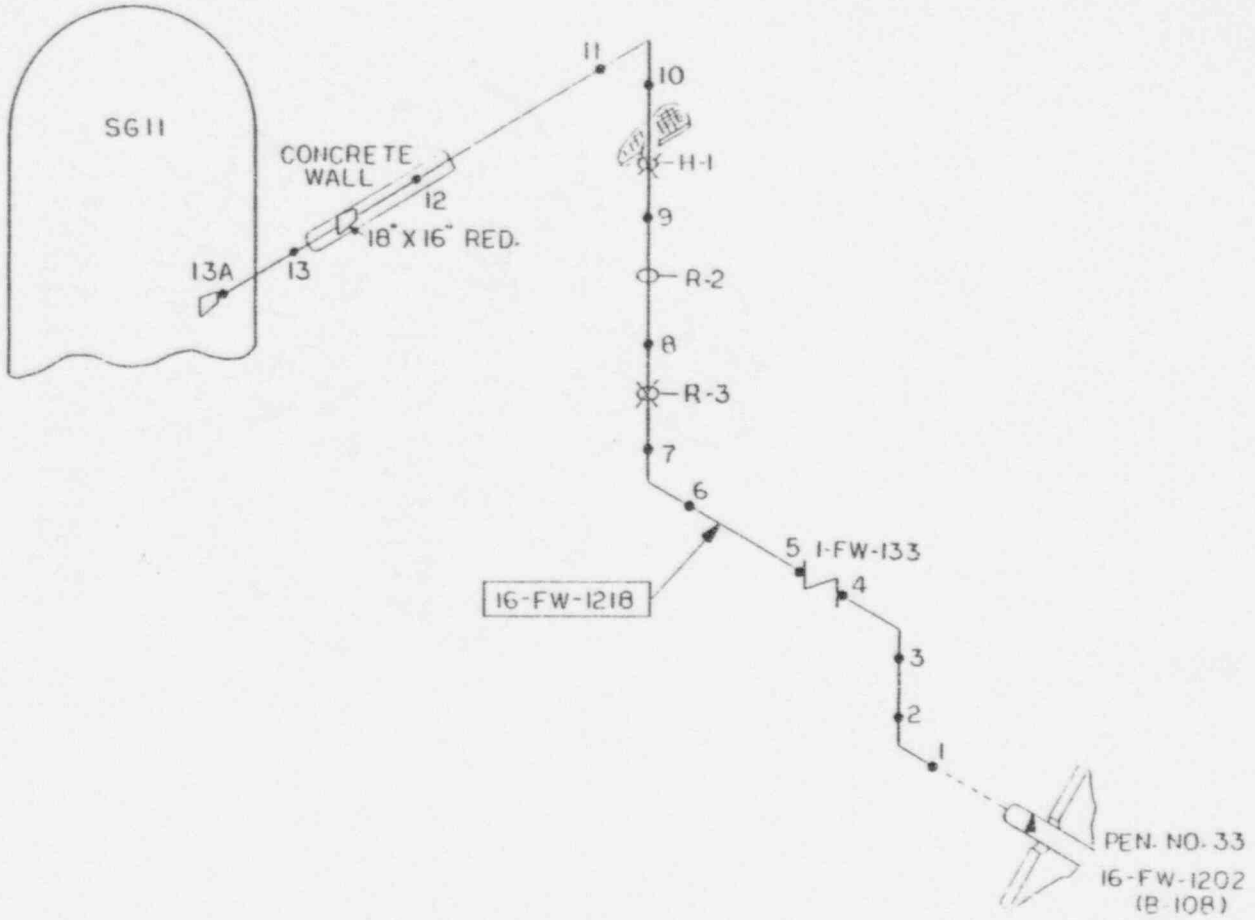
SOUTHWEST RESEARCH INSTITUTE



SwRI LINE No.	6 MS-1237
BG&E LINE No.	6-EB12-1037
NOM. O.D./SCH.	6"/40
NOM. THICKNESS	0.310"
MATERIAL	CS
CAL. BLK.	CC-20

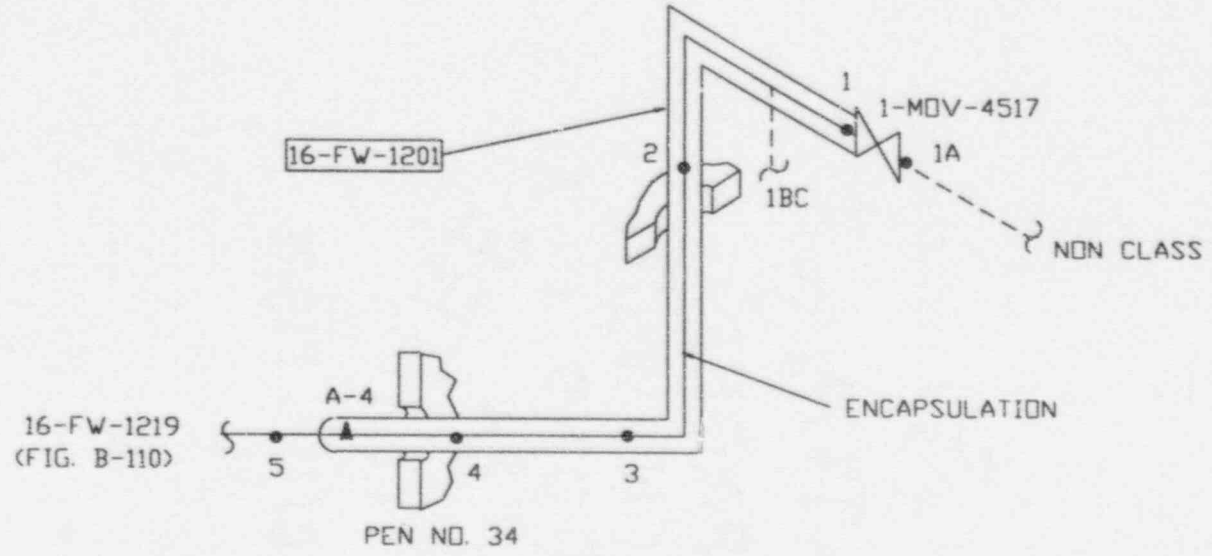
CALVERT CLIFFS NUC. POWER PLANT		
UNIT	1	
P&ID(s)	M 35	
REFERENCE DWG(s).		
FIGURE	B-105	
REV.	1	10-17-87

SOUTHWEST RESEARCH INSTITUTE



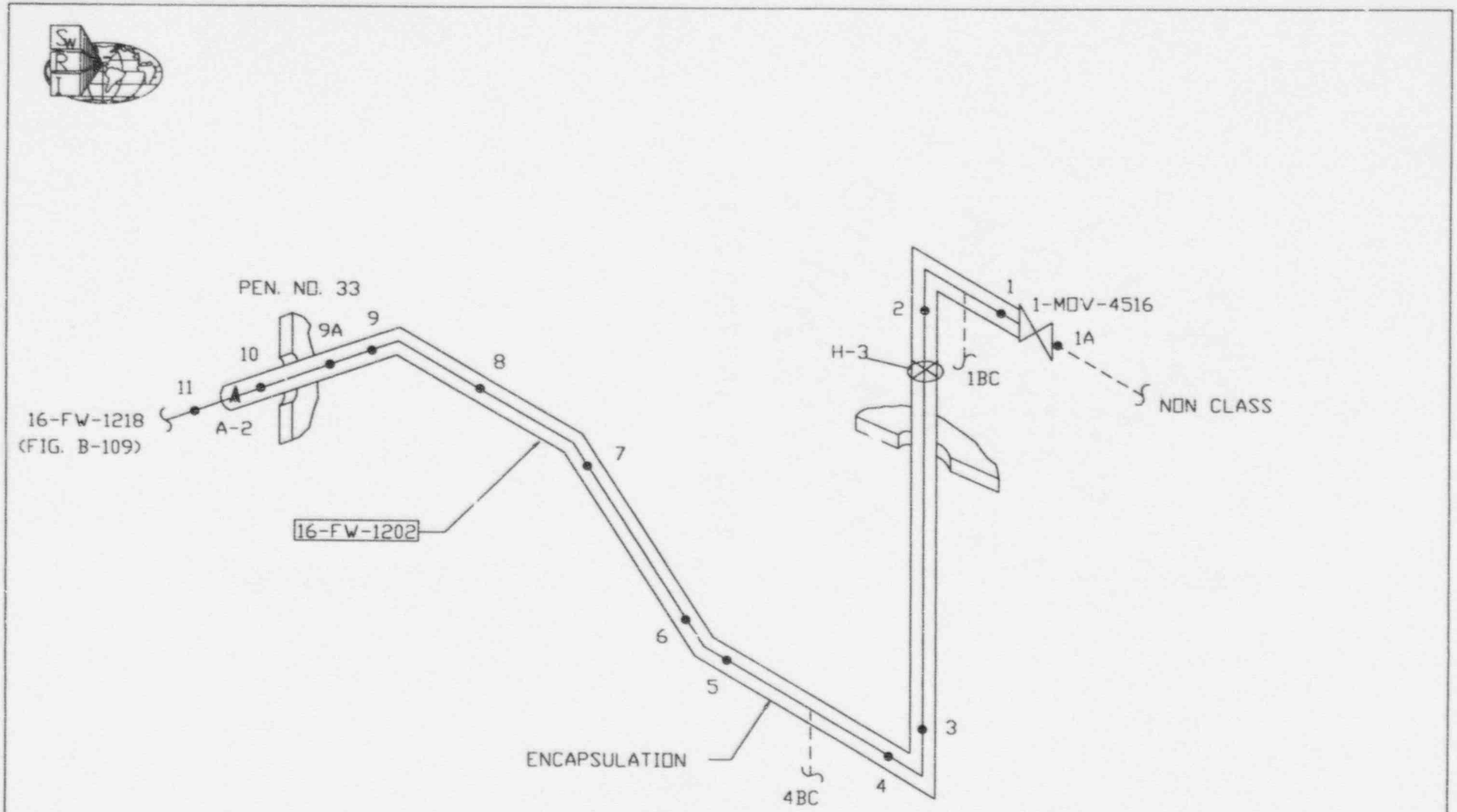
SwRI LINE No.	16-FW-1218
BG&E LINE No.	16-DB1-1018
NOM. O.D./SCH.	16"/80
NOM. THICKNESS	0.844"
MATERIAL	CS
CAL. BLK.	CC-24

CALVERT CLIFFS NUC. POWER PLANT	
UNIT	1
P&ID(s)	M-39
REFERENCE DWG(s).	1-22-1
FIGURE	B-109
REV.	4 12-29-87



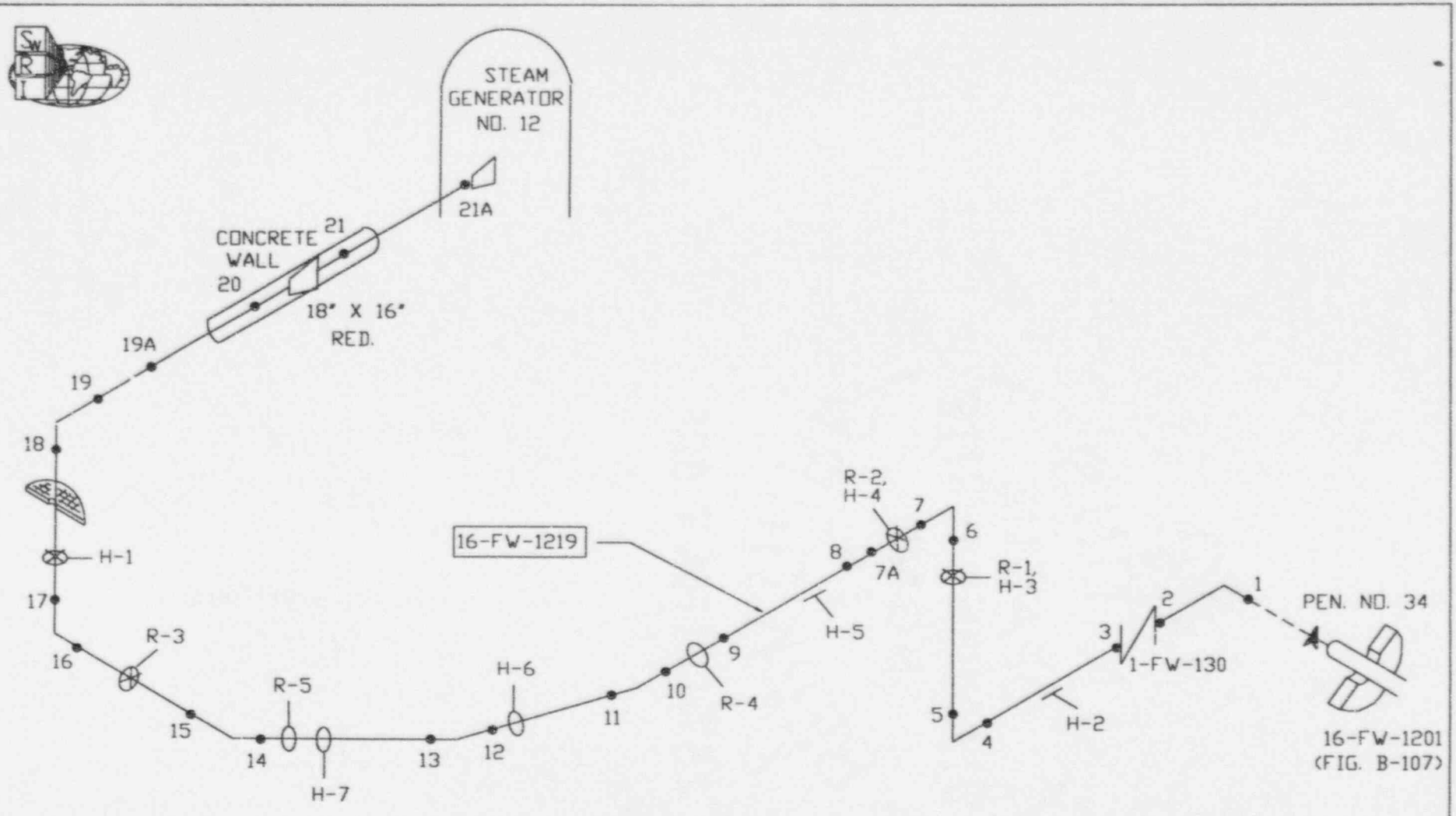
SwRI LINE No.	16-FW-1201
BG&E LINE No.	16-DB3-1001
NOM. O.D./SCH.	16"/80
NOM. THICKNESS	0.844"
MATERIAL	CS
CAL. BLK.	CC-24

CALVERT CLIFFS NUCLEAR POWER PLANT	
UNIT	1
P&ID(s)	M-39
REFERENCE DWG(s)	1-18-12
FIGURE	B-107
REV.	1 10-18-95



SwRI LINE No.	16-FW-1202
BG&E LINE No.	16-DB3-1002
NOM. O.D./SCH.	16"/80
NOM. THICKNESS	0.844"
MATERIAL	CS
CAL. BLK.	CC-24

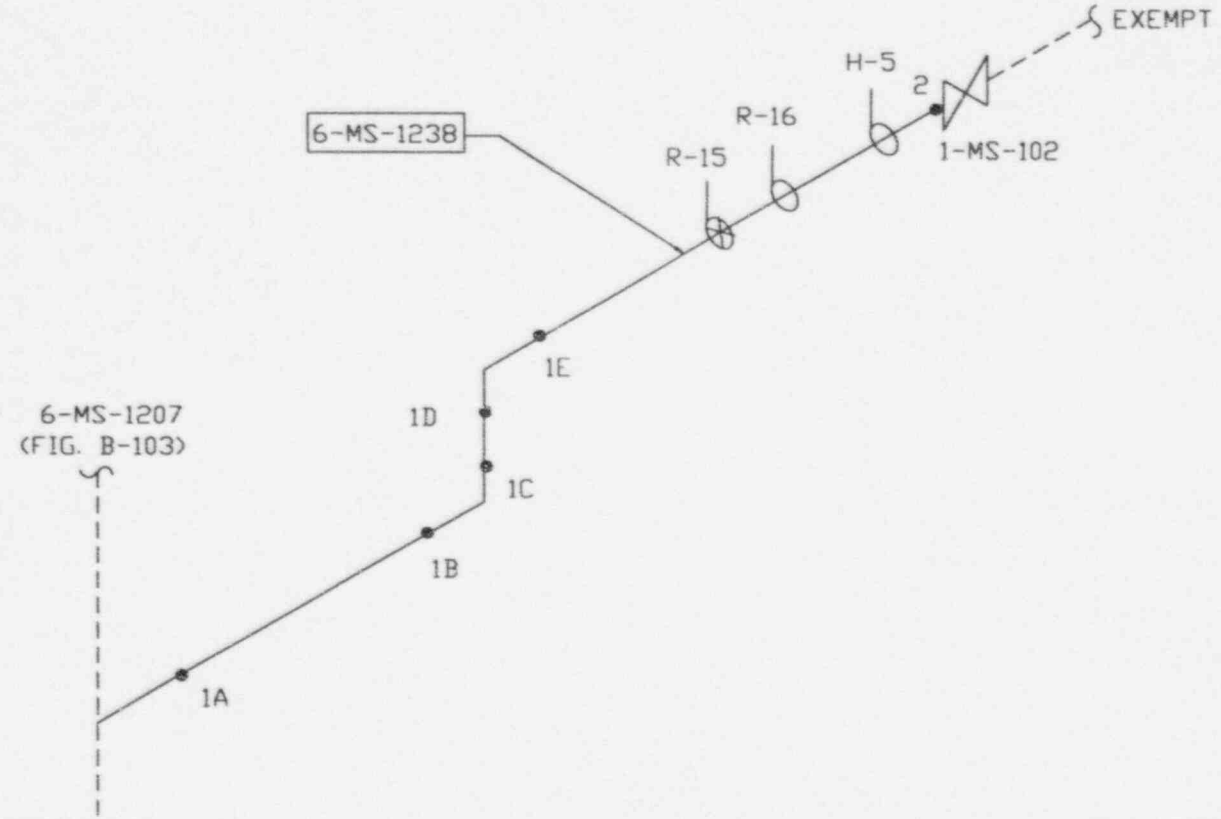
CALVERT CLIFFS NUCLEAR POWER PLANT		
UNIT	1	
P&ID(s)	M-39	
REFERENCE DWG(s)		1-18-12
FIGURE	B-108	
REV.	1	10-18-95



SwRI LINE No.	16-FW-1219
BG&E LINE No.	16-DB1-1019
NOM. O.D./SCH.	16"/80
NOM. THICKNESS	0.844"
MATERIAL	CS
CAL. BLK.	CC-24

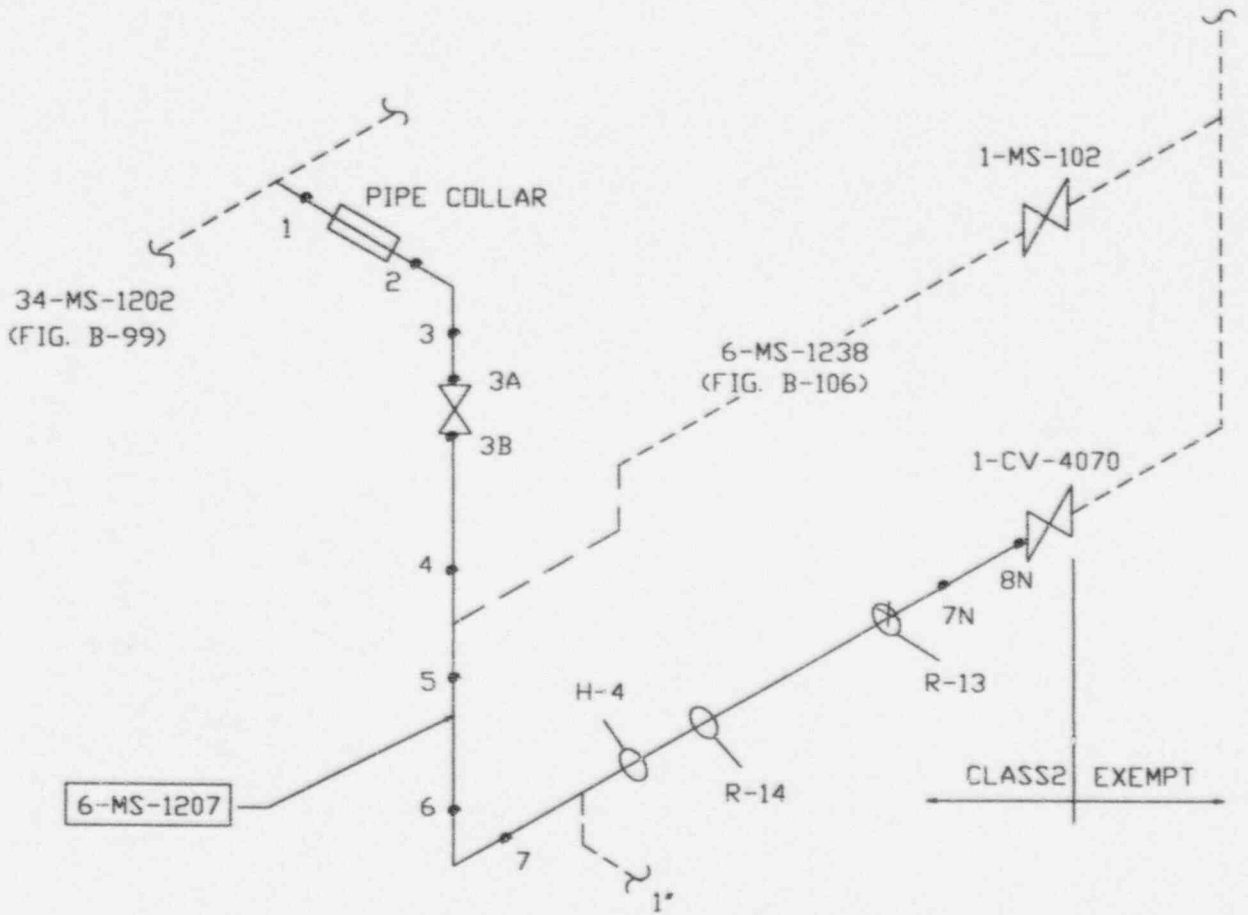
*1-22-1, 1-22-22, 1-23-1, 1-23-17

CALVERT CLIFFS NUCLEAR POWER PLANT		
UNIT	1	
P&ID(s)	M-39	
REFERENCE DWG(s)	*	
FIGURE	B-110	
REV.	1	10-18-95



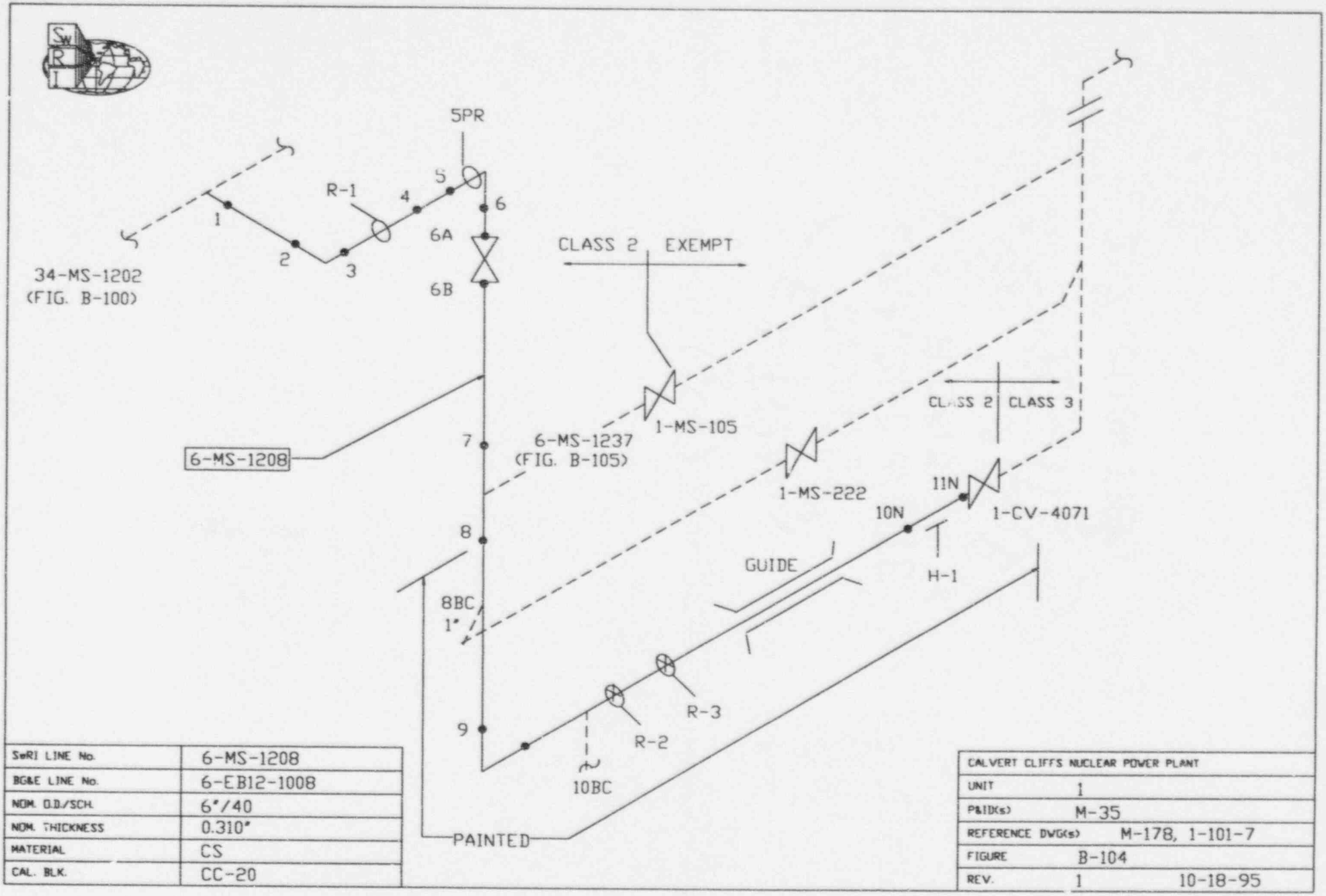
SwRI LINE No.	6-MS-1238
BG&E LINE No.	6-EB12-1038
NOM. O.D./SCH.	6"/40
NOM. THICKNESS	0.310"
MATERIAL	CS
CAL. BLK.	CC-20

CALVERT CLIFFS NUCLEAR POWER PLANT		
UNIT	1	
P&ID(s)	M-35	
REFERENCE DWG(s)		
FIGURE	B-106	
REV.	1	10-18-95



SwRI LINE No.	6-MS-1207
BG&E LINE No.	6-EB12-1007
NOM. O.D./SCH.	6"/40
NOM. THICKNESS	0.310"
MATERIAL	CS
CAL. BLK.	CC-20

CALVERT CLIFFS NUCLEAR POWER PLANT		
UNIT	1	
P&ID(s)	M-35	
REFERENCE DWG(s)		M-178, 1-101-7
FIGURE	B-103	
REV.	1	10-18-95



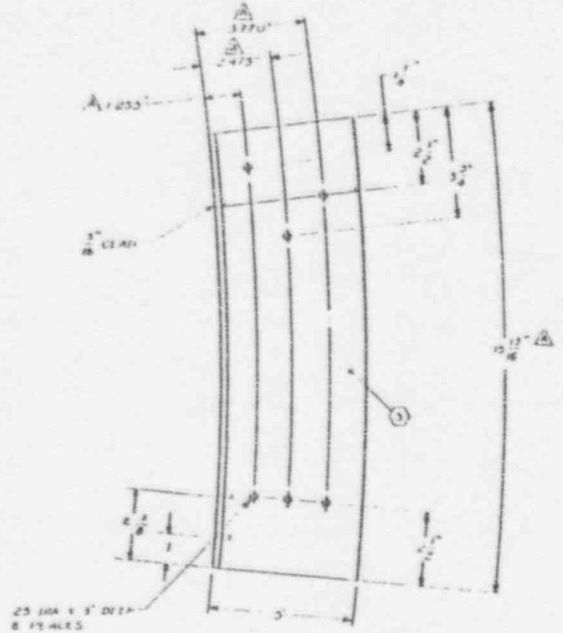
SwRI LINE No.	6-MS-1208
BG&E LINE No.	6-EB12-1008
NOM. O.D./SCH.	6"/40
NOM. THICKNESS	0.310"
MATERIAL	CS
CAL. BLK.	CC-20

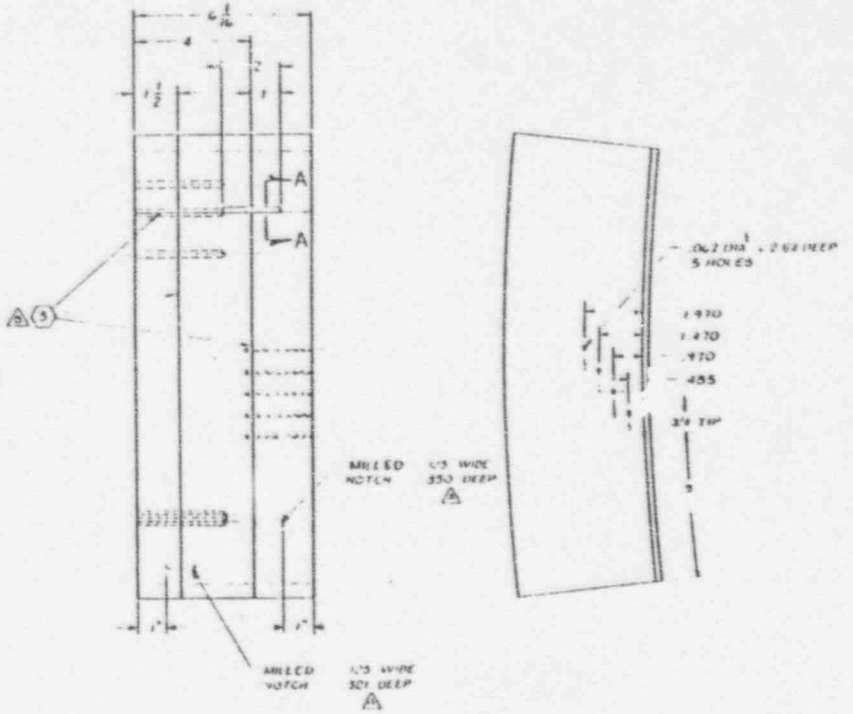
CALVERT CLIFFS NUCLEAR POWER PLANT	
UNIT	1
P&ID(s)	M-35
REFERENCE DWG(s)	M-178, 1-101-7
FIGURE	B-104
REV.	1 10-18-95

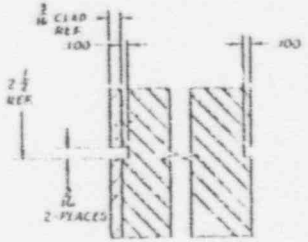
APPENDIX C
ULTRASONIC CALIBRATION BLOCK DRAWINGS

CALVERT CLIFFS NUCLEAR POWER PLANT
ULTRASONIC CALIBRATION BLOCK DRAWINGS

Calibratio Block No.	Description	Drawing No.	Rev.
CC-1	5" Vessel Calibration Block	D-2929-056	D
CC-2	7" Vessel Calibration Block	D-2929-011	G
CC-6	Pressurizer Surge Line Calibration Block (12"-XX-.959"-SS)	D-2929-047	E
CC-7	3" Cold Leg Calibration Block (Flat-XX-3.00"-CSCL)	D-2929-057	D
CC-10	Reactor Coolant Pump Safe End Calibration Block (38"-XX-3.25"-SS)	D-2929-090	D
CC-11	Regenerative Heat Exchanger Calibration Block (8"-160-.875"-SS)	D-2929-040	B
CC-14	3" Pipe Calibration Block (3"-160-.438"-SS)	D-2929-073	D
CC-15	4" Pipe Calibration Block (4"-120-..438"-SS)	D-2929-072	E
CC-16	6" Pipe Calibration Block (6"-120-.562"-SS)	D-2929-060	C
CC-23	36" Pipe Calibration Block (36"-XX-2.00"-CS)	D-2929-065	C
CC-24	16" Pipe Calibration Block (16"-80-.844"-CS)	D-2929-067	E
CC-26	4" Pressurizer Relief Nozzle-to-Safe End Calibration Block (4"-XX-1.25"-SS)	D-2929-143	B
CC-38	34" Pipe Calibratic Block (34"-XX-1.060"-CS)	D-2929-228	A
CC-41	OD Examinatic Inner Radius Calibration Block (CSCL)	D-2929-236	C
CC-45	8" Pipe Ultrasonic Calibration Block (8"-40S-.322"-SS)	D-2929-242	
CC-48	10" Pipe Ultrasonic Calibration Block (10"-20-.250"-SS)	D-2929-247	
CC-50	12" Pipe Ultrasonic Calibration Block (12"-20-.250"-SS)	D-2929-248	
CC-51	14" Pipe Ultrasonic Calibration Block (14"-20-.250"-SS)	D-2929-240	
CC-54	7" Vessel Ultrasonic Calibration Block (7.0"-CS)	D-2929-254	
CC-55	5" Vessel Ultrasonic Calibration Block (5.0-CS)	D-2929-255	A
CC-56	Shutdown Cooling Heat Exchanger Ultrasonic Calibration Block (Flat-1.125"-CSCL)	D-2929-252	B
CC-59	12" Pipe Ultrasonic Calibration Block (12"-.140-1.125"-SS)	D-2929-253	
CC-60	14" Pipe Ultrasonic Calibration Block (14"-.140-1.250"-SS)	D-2929-256	A
CC-62	Nozzle Inner Radius Calibration Block Pressurizer Safety and Relief Nozzles (CSCL)	D-2929-600	
CC-64	4" Pipe Ultrasonic Calibration Block (4"-80S-.337"-SS)	D-2929-602	
CC-66	3" Pipe Ultrasonic Calibration Block (3"-80S-.300"-SS)	D-2929-604	A
CC-70	Nozzle-to-Safe End Mockup (12" Dissimilar Metal)	D-2929-610	C
CC-75	Pump Stud UT Calibration Block	D-2929-618	A





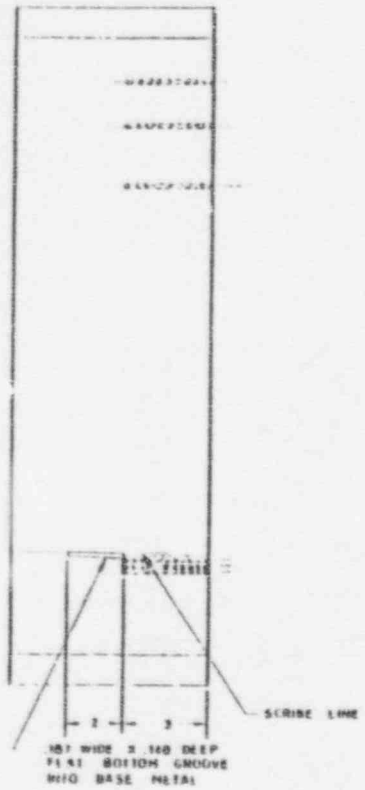


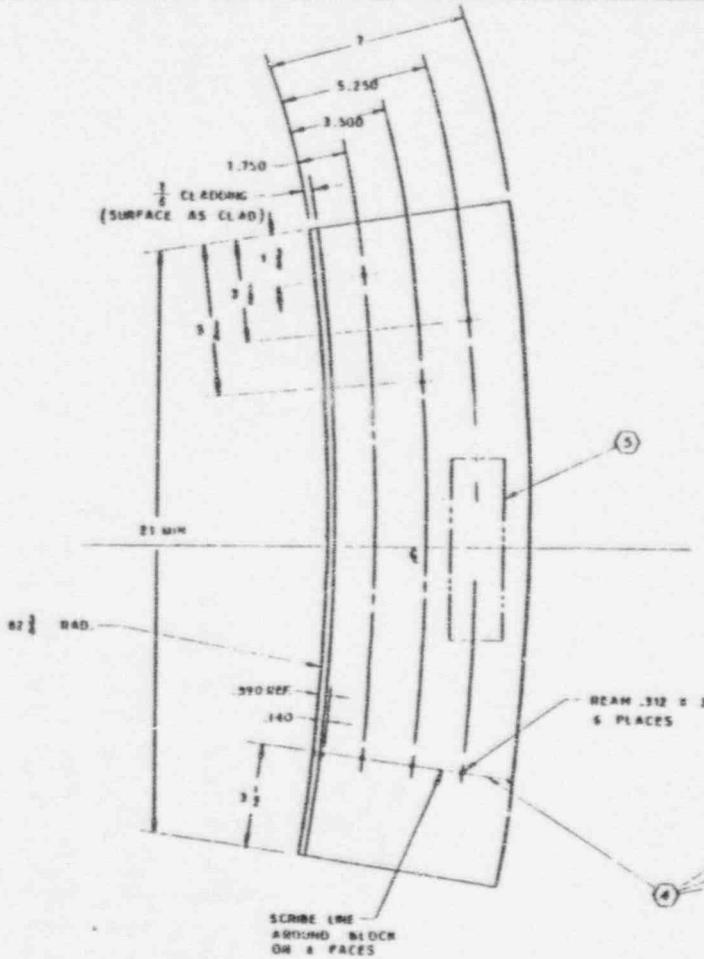
SECTION A-A
SCALE: 1/1

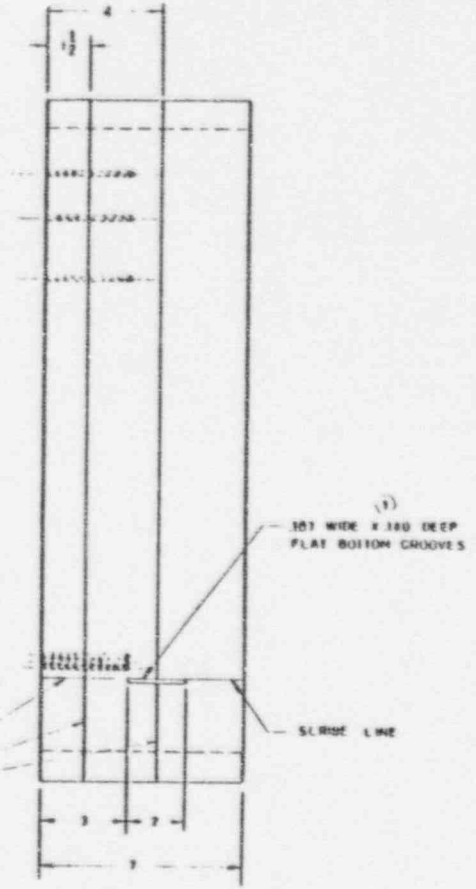
CC-1

SOUTHWEST RESEARCH INSTITUTE

C-1







NOTES :

(1) DIMENSION IS DEPTH OF GROOVE IN BASE METAL
(2) MAKE FROM VESSEL DROPOUT OF CALVERT CLIFFS NO 1 VESSEL.
3 DIMENSIONS ARE AS [illegible]
(4) SCRIBE CENTERLINES .005 TO .005 WIDE & DEEP WHERE NOTED STEEL STAMP, OR FILE CUT AN INDEX MARK AT EACH END OF SCRIBE LINE, 1/32 × 1/32 × 1/4 LONG.
(5) STEEL STAMP IN INFORMATION ON SURFACE INDICATED IN CHARACTERS 1/16 MIN HEIGHT CC 2
CONT N° 72167 & 73167
CODE 8705 1
HEAT TREAT 4 HRS.

G	6537	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
F	6508	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
E	4567	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
D	3528	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C	2537	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

REVISIONS

W. BLACK

FISHER

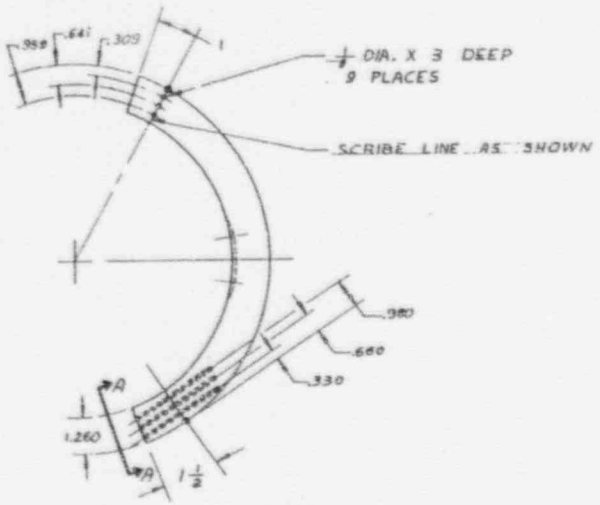
(2)

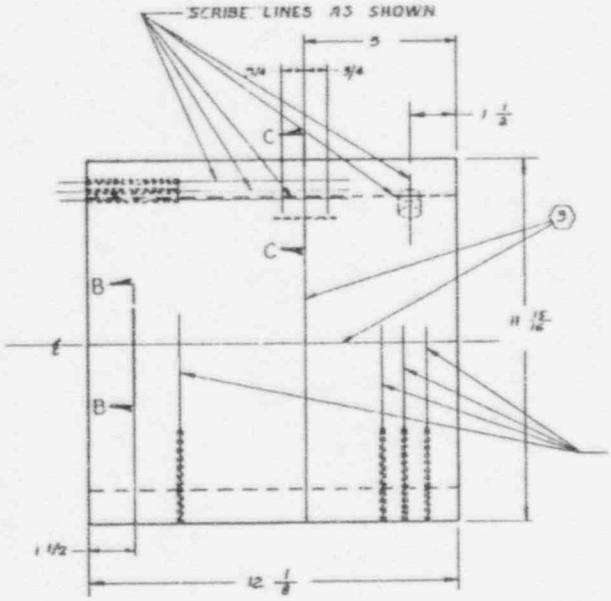
SOUTHWEST RESEARCH INSTITUTE

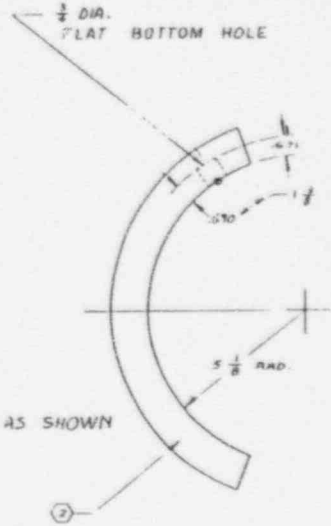
CALIBRATION BLOCK
VESSEL 7.00" CC-2

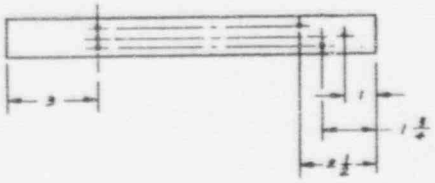
1/2 C D-2929 011 G

SHEET 1 OF 1



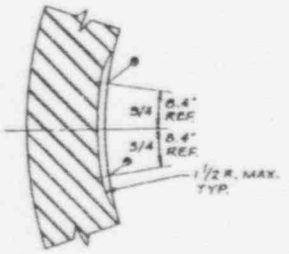




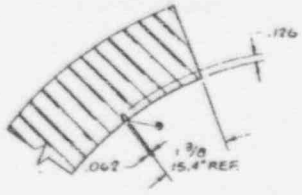


VIEW A-A

SCALE: 1/2



SECTION B-B
SCALE: 1/1



SECTION C-C
SCALE: 1/1

NOTES:

1. DIMENSIONS ARE AS BUILT.
2. "C-2929 047 STAMP 09 " STAMPED ON SURFACE INDICATED ▲.
3. SCRIBE CENTERLINES .005 TO .005 WIDE AND DEEP WHERE NOTED. STEEL STAMP OR MILL CUT AN INDEX MARK AT ENDS OF EACH CENTERLINE, 1/32 x 1/32 x 1/4 LONG.

REVISIONS							
LET	DESCRIPTION	DATE	DWN	DES. ENGR APPR.	PROG. ENGR.	Q.A. MGR.	
E	7235	1/9/80	JK				
D	7233	4/8/80	JK				
C	2599	11 JULY 80	JK				

TOLERANCES UNLESS NOTED
DECIMALS ± .010
FRACTIONS ± 1/16
ANGLES ± 0° 30'
FINISH 125

APPROVED
DESIGN SUPVR. — DATE
J.R. CRICK — 11 Nov 78
PROJ. MGR.
Q.A. MGR.

DRAWN BY J. RAMOS — DATE 11 Nov 78
CHECKED BY — DATE

PARTS LIST

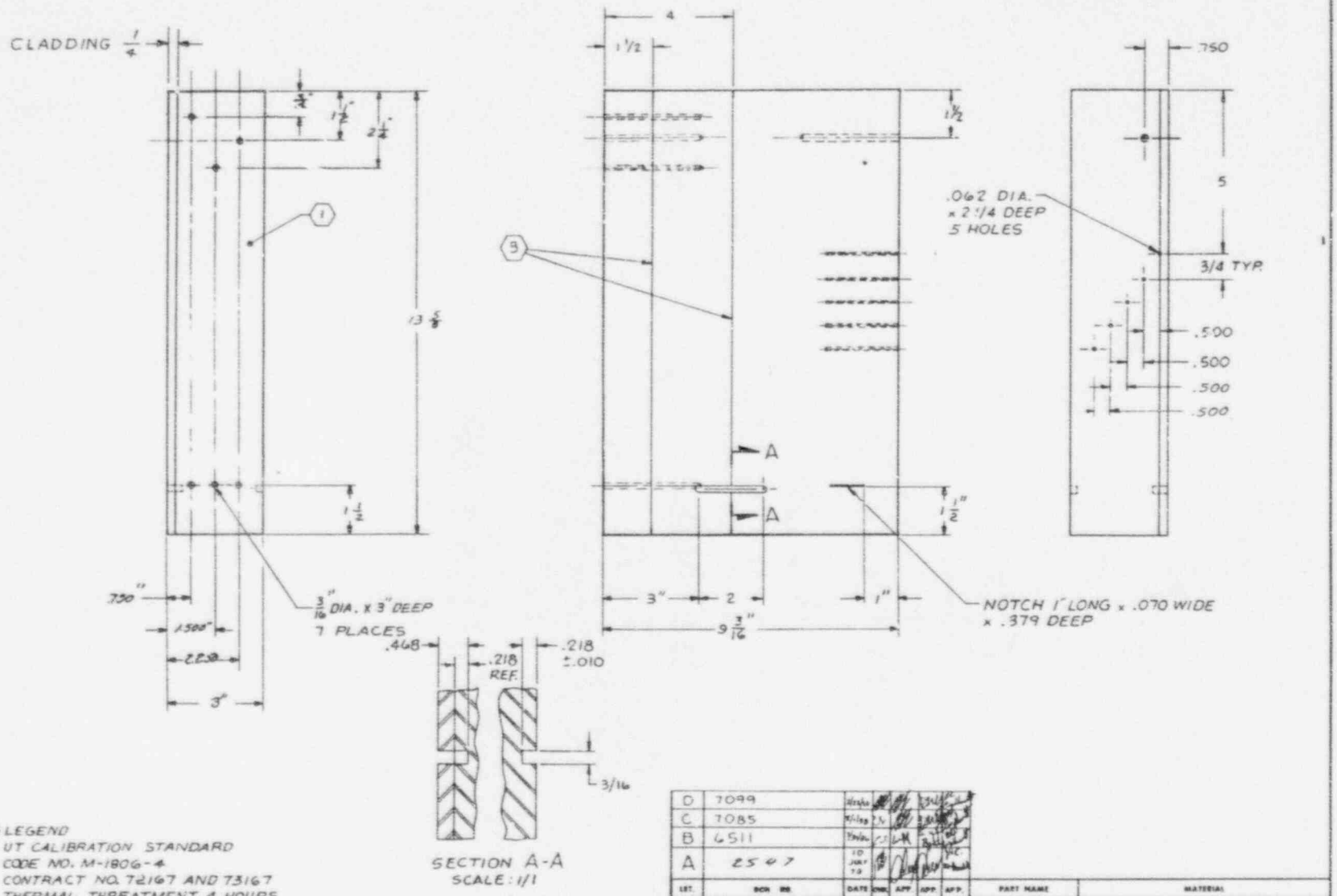
ITEM NO.	PART NAME	MATERIAL

SEE A-931-CF811

SOUTHWEST RESEARCH INSTITUTE
QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION
SAN ANTONIO, TEXAS

CALIBRATION BLOCK FOR CALVERT CLIFFS UNIT 1 SURGELINE CC-6

SCALE 1/2 | C | D-2929 047 | E



SECTION A-A
SCALE: 1/1

(1) LEGEND
UT CALIBRATION STANDARD
CODE NO. M-1806-4
CONTRACT NO. 72167 AND 73167
THERMAL TREATMENT 4 HOURS
BLOCK THICKNESS 3"

2. DIMENSIONS ARE AS-BUILT.

(3) SCRIBE CENTERLINES WHERE SHOWN .003 TO .005 WIDE AND DEEP. STEEL STAMP OR MILL CUT AN INDEX MARK AS SHOWN 1/32 x 1/32 x 1/4 LONG.

LTR	DESCRIPTION	DATE	DWN	APP
D	7099			
C	7085			
B	6511			
A	2507	10 JULY 73		

REVISIONS

F. D. R 9-11-73

PARTS LIST

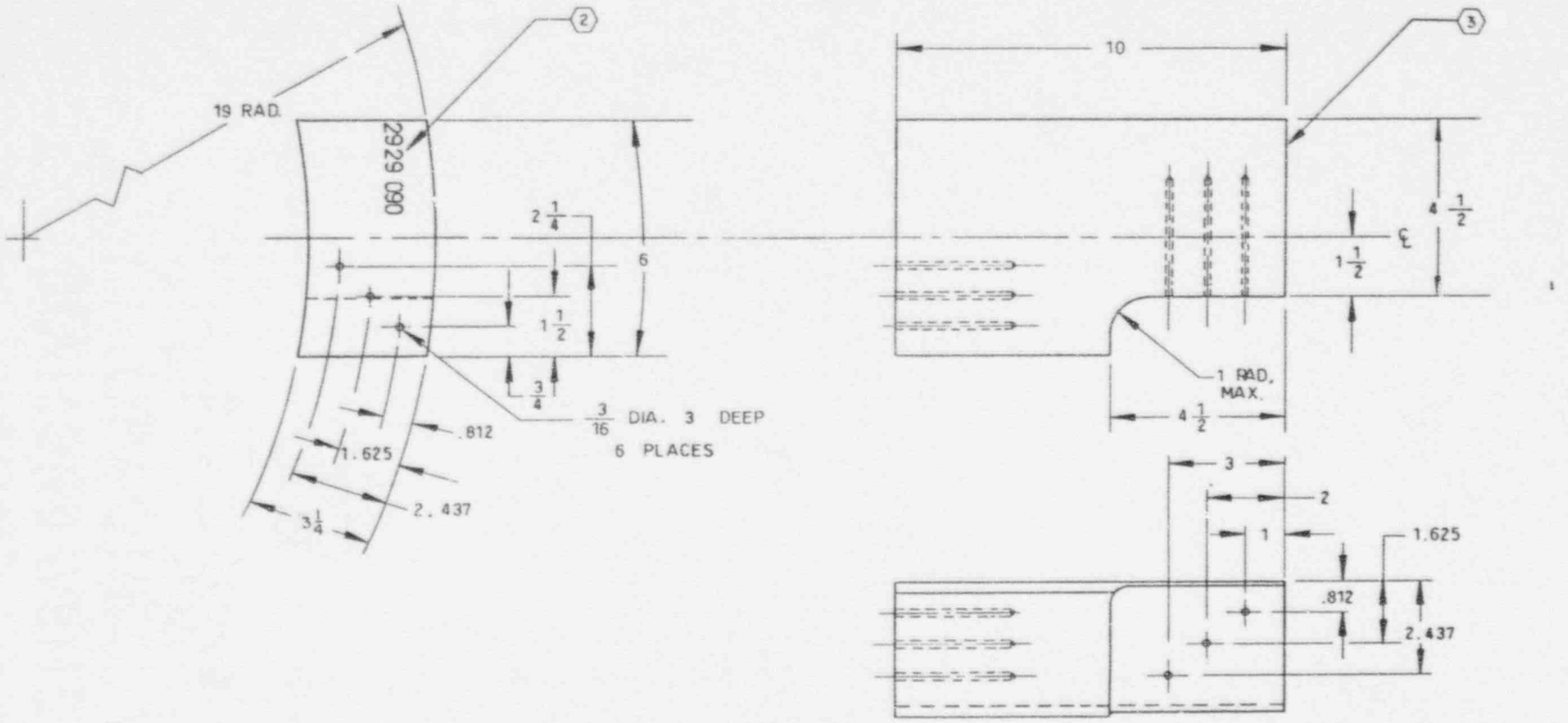
DRAWN BY	J Rangel
CHECKED BY	
ENGRD BY	
APPROVED BY	DBE
MATERIAL	CARBON STEEL
FINISH	125

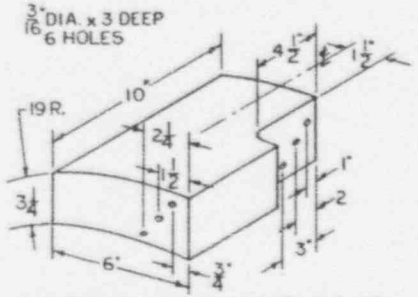
PART NAME: 3" CALIBRATION BLOCK CC-7

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS

DATE 11-13-73 SCALE 1/2

DRAWING NUMBER C-2929-057 D





REACTOR COOLANT PUMP SAFE-END STD.

NOTES:

1. BREAK ALL SHARP EDGES AND REMOVE BURRS.
2. STAMP DRAWING NUMBER AS SHOWN. (D)
3. STAMP HT. NO. J262D1234 ON SURFACE INDICATED. (D)
4. DIMENSIONS ARE AS BUILT. (D)

LET.	CHANGE	DATE	BY	APP.
C	INCORPORATED DCN-266	5/4/75	JA	
B	REVISED AND REDRAWN. SEE ORIGINAL IN OBSOLETE FILES	2 MAY 75	FC	

REVISIONS

DASH NO.	NO. REQ'D.	PART NAME	MATERIAL
			ASTM A351 GR CF8M

F. D. R. 9-11-78 PARTS LIST

DRAWN BY J. ALATORRE
DESIGNED BY FC
CHECKED BY D. LAMM
APPROVED BY [signature] 5/1/75
MATERIAL SEE P/L
HEAT TREAT
FINISH 125

TOLERANCES UNLESS NOTED DECIMALS ± .010 FRACTIONS ± 1/16 ANGLES ± 0° 30'

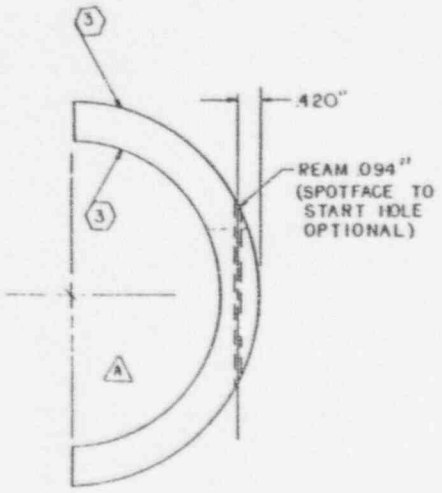
ULTRASONIC CALIBRATION BLOCK FOR REACTOR COOLANT PUMP SAFE-END WELDS CC-10

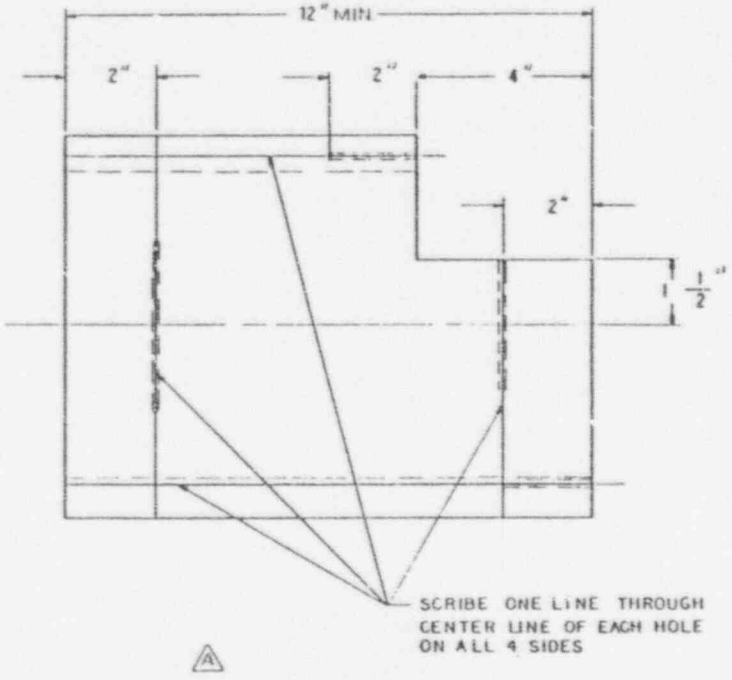
SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS C

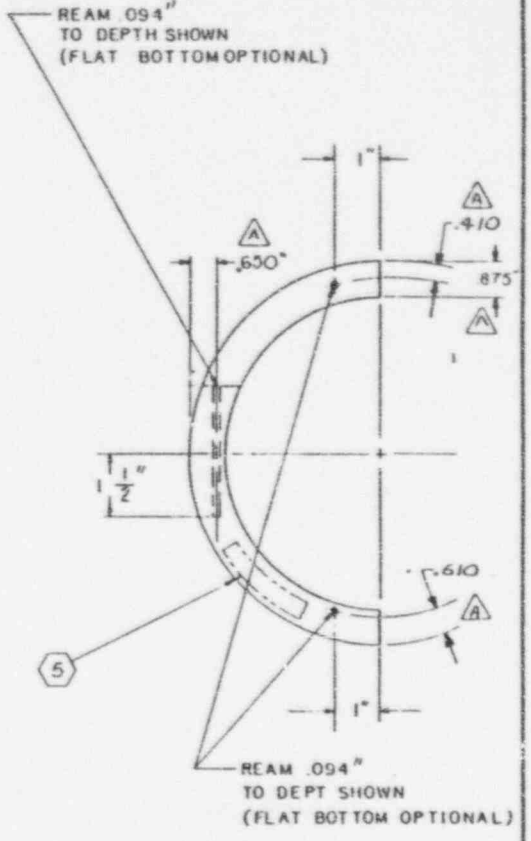
DATE 2 MAY 75 SCALE 1/2

DRAWING NUMBER C-2929 090 D

LT	DCN NO	DATE	CK	APP	APP	APP
D	2566	8/1/78				







C-11

NOTES A

(1) MAKE FROM 8 SCHEDULE 160 SA 182 F304 SMS STAINLESS STEEL PIPE.

2 DIMENSIONS ARE IN INCHES.

(3) THIS SURFACE FINISH TO BE AS SUPPLIED.

4. DIMENSIONS ARE AS BUILT .

(5) STEEL STAMP ID INFORMATION ON SURFACE INDICATED IN CHARACTERS 3/16" MIN. HEIGHT. CC-11, C2929-040

LET	CHANGE	DATE	BY	APP.
B	4569	3/10/81		
A	2542	7-17-78		

REVISIONS

DRAW NO	REQ NO	PART NAME	MATERIAL
		F. D. R. 9-8-78	PARTS LIST

DRAWN BY J. Reyes
DESIGNED BY
CHECKED BY
APPROVED BY
CLEN BY

MATERIAL (1)
HEAT TREAT
FINISH (3)

TOLERANCES UNLESS NOTED
DECIMALS ± .010
FRACTIONS ± 1/16
ANGLES ± .5°

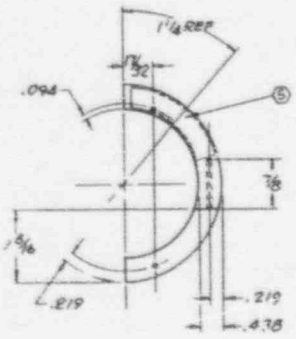
CALIBRATION BLOCK CALVERT CLIFFS UNIT ONE REGENERATIVE HEAT EXCHANGER CC-11

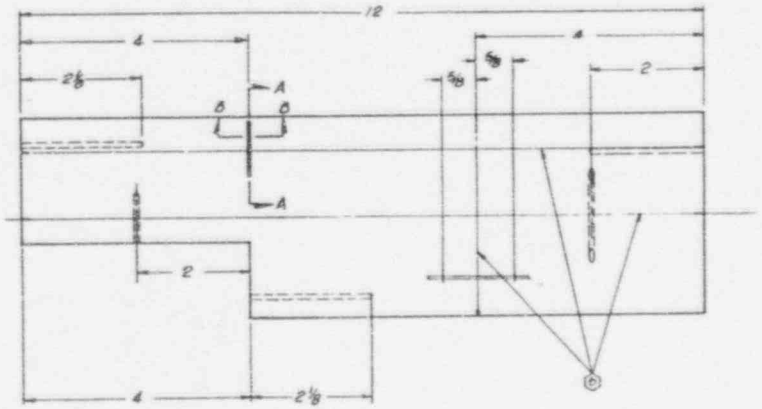
SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS

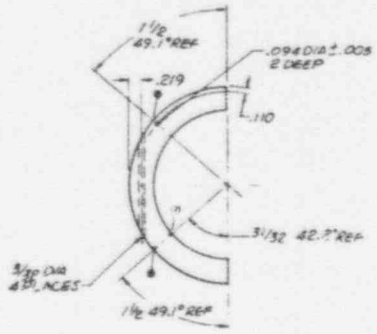
C

DATE 3-29-73 SCALE 1/2

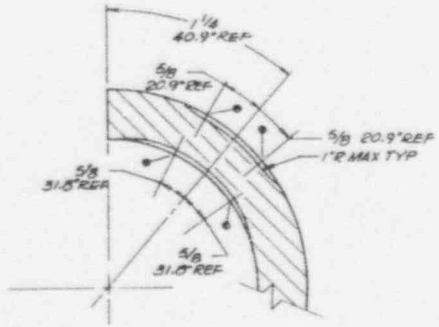
DRAWING NUMBER C292[illegible]40B



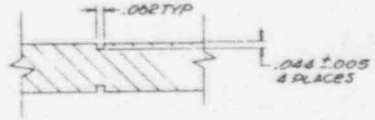




NOTES:
1. PIPE SIZE 3" SCHEDULE 160
2. B.O. AND E. AP-2-CC11
3. 3/16 STAINLESS STEEL, SA 376, SEAMLESS.
4. DIMENSIONS ARE AS BUILT
5. STEEL STAMP ID. INFORMATION ON SURFACE INDICATED IN CHARACTERS 3/16 MIN HEIGHT CC-14 WT NNN16 W
6. SCRIBE CENTERLINES AS SHOWN .003 TO .005 WIDE AND DEEP WHERE NOTED. STEEL OR MILL CUT AN INDEX MARK AT ENDS OF EACH CENTERLINE AS SHOWN 1/32 x 1/32 x 1/8 LONG.



SECTION A-A
SCALE: 2/1



SECTION B-B
SCALE: 2/1

CC-14

D	7124										
LET	DESCRIPTION	DATE	CHK	DESIGN ENGR	PROJ. MGR	U.S. GOVT					

REVISIONS

UNLESS NOTED			
DECIMALS ± .010			
FRACTIONS ± 1/16			
SCALE 1/2"			
FINISH 250			
APPROVALS	DATE		
DESIGN AGY			
PROJ. MGR			
U.S. GOVT			

SHEET NO.		PART NAME	MATERIAL
		PARTS LIST	
SHEET DESCRIPTION			
P. E. M. DATE	9-11-78		
DESIGNED BY	DATE		
J.C. RAMOS	11-1-78		
DRAWN BY	DATE		
J.C. RAMOS	11-1-78		
CHECKED BY	DATE		

SOUTHWEST RESEARCH INSTITUTE
QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION
SAN ANTONIO, TEXAS

3" PIPE CALIBRATION BLOCK
CC-14
CALVERT CLIFFS

SCALE 1/1 | C | D-2929 073 | D

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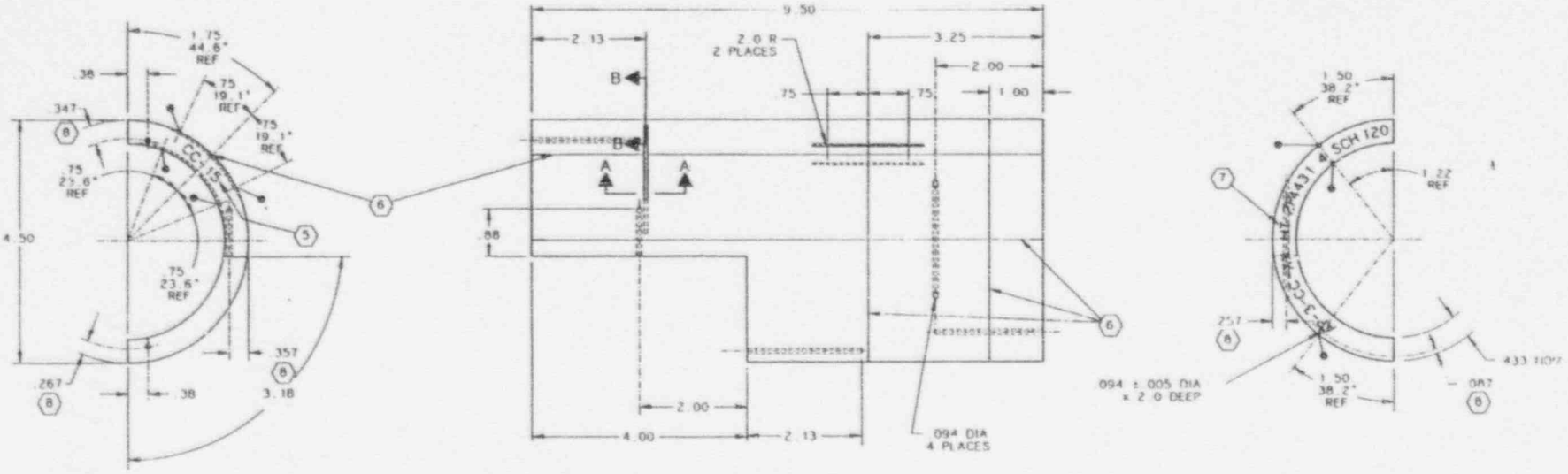
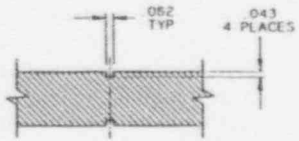
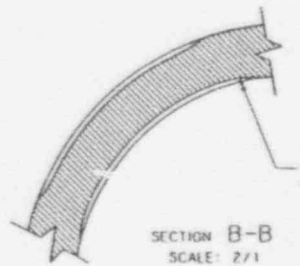




SECTION A-A
SCALE: 2/1



SECTION B-B
SCALE: 2/1

CC-15

NOTES:

1. PIPE SIZE 4" SCH 120.
2.
3. 316 STAINLESS STEEL SA 376, SEAMLESS.
4. DIMENSIONS ARE AS-BUILT.
5. STEEL STAMP ID. No AS SHOWN ON SURFACE INDICATED IN CHARACTERS 3/16 MIN HEIGHT.
6. SCRIBE CENTERLINES AS SHOWN .003 TO .005 WIDE AND DEEP WHERE NOTED. STEEL STAMP OR MILL CUT AN INDEX MARK AT ENDS OF EACH CENTERLINE AS SHOWN 1/32 x 1/32 x 1/4 LONG.
7. STEEL STAMP ON SURFACE INDICATED:
   AP-3-CC-XX
   4" DIA SCH 120
   HT 2P4431
8. HOLE LOCATIONS MEASURED FROM OD SURFACE ULTRASONICALLY, DATA SHEET No 135019.

REVISIONS							
E	9838	3/3/94	AW				
D	7125	3/29/88	AW	EDWARDS	REE	D. W. YORK	
C	7108	3/7/88	RWH	EDWARDS	RYE	D. W. YORK	

TOLERANCES UNLESS NOTED

	DECIMALS		
	2 PLACES	3 PLACES	4 PLACES
SHEET 2	± .12	± .06	± .015
SHEET 3/4	± .12	± .06	± .015
ANGLES	± 1°		

DRAWN BY: L. Ewe 3/7/88
DESIGN BY:
ENGINEERING APPROVAL SIGNATURES & DATE:
CHECKED BY:
MFG. APPROVAL:
Q.A. APPROVAL:
PROJECT MGR.

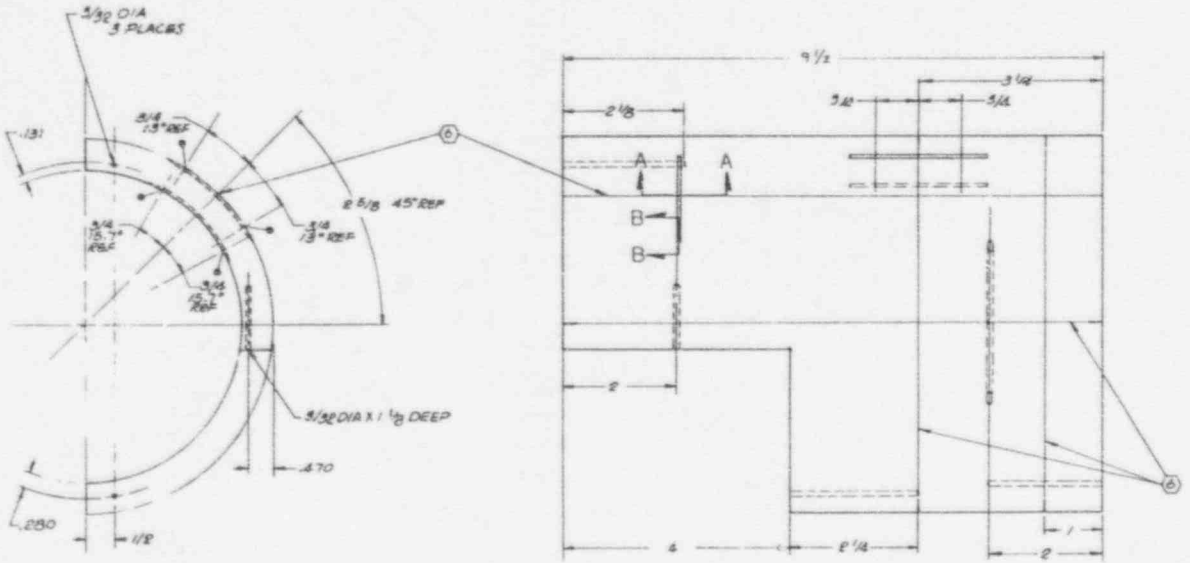
PARTS LIST

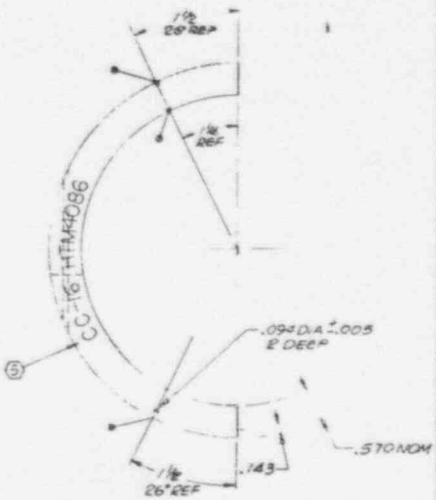
SOUTHWEST RESEARCH INSTITUTE
NONDESTRUCTIVE EVALUATION SCIENCE & TECHNOLOGY DIVISION
SAN ANTONIO, TEXAS

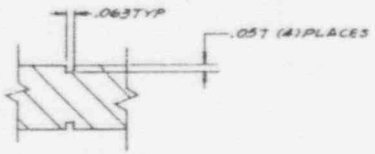
4" PIPE
UT CALIBRATION BLOCK
CALIBRI GUIDES

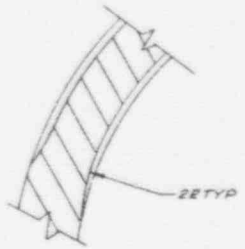
CAGE CODE 2640i | C | D-2929-072 | REV E

SCALE 1/1 | DO NOT SCALE DRAWING | CAD FILE CAD2929 | SHEET 1 OF 1









SECTION A-A
SCALE: 2/1

SECTION B-B
SCALE: 2/1

NOTES:
1. PIPE SIZE 6" SCHEDULE 120,
6" CC-4 AND CC-13 PIPE.
2. B.G AND E HT M4086
③ STAINLESS STEEL ASTM A-376-64 CROLDY 316
4. DIMENSIONS ARE AS BUILT.
⑤ STEEL STAMP ID. NO. AND HEAT NO. AS SHOWN ON SURFACE INDICATED, IN CHARACTERS 3/16 MIN. HEIGHT.
⑥ SCRIBE CENTERLINES AS SHOWN .003 TO .005 WIDE AND DEEP WHERE NOTED. STEEL STAMP OR MILL CUT AN INDEX MARK AT ENDS OF EACH CENTERLINE AS SHOWN 1/32 x 1/32 x 1/4 LONG

(6-120S-.570-SS)-CC-16

③

C	7107	2-4-8[illegible]				
LET	ECN NO	DATE	CHK	DRGN MGT	PROJ MGR	Q A MGR

REVISIONS

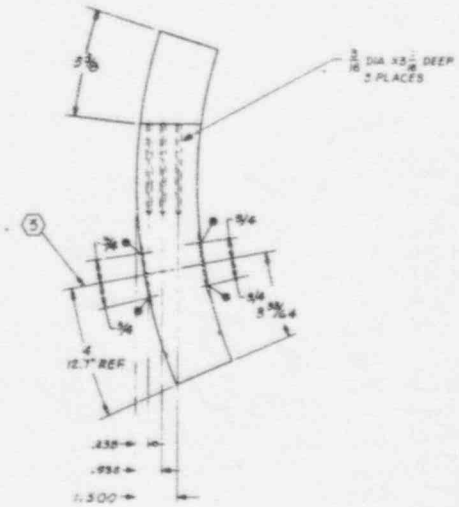
TOLERANCES UNLESS NOTED
DECIMALS ± .010
FRACTIONS ± 1/16
ANGLES
FINISH

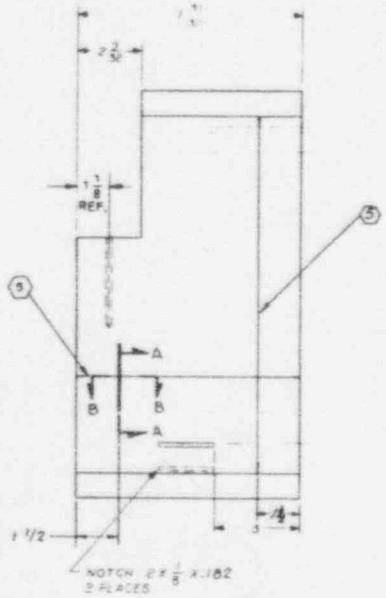
PARTS LIST

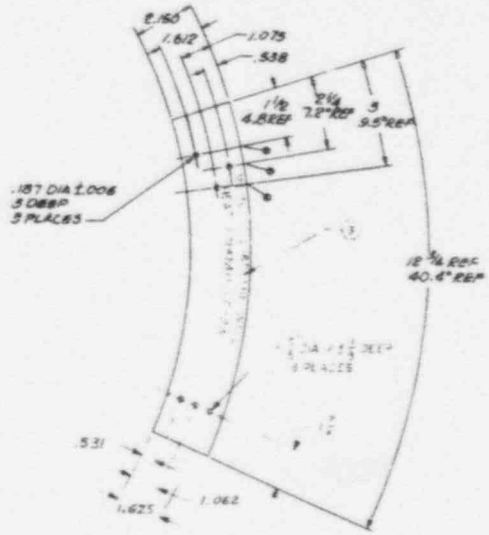
SOUTHWEST RESEARCH INSTITUTE
QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION
SAN ANTONIO, TEXAS

6" SCH 120 ULTRASONIC
CALIBRATION BLOCK
CALVERT CLIFFS

SCALE 1/1 | C | D-2929-060 | REV C

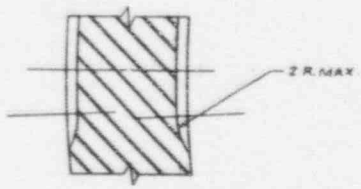




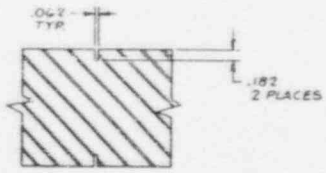


NOTES

1. 36" 2" WALL MAIN STEAM PIPE STANDARD
2. CARBON STEEL, ASTM A 155 GRADE KCF 70 CLASS 1.
3. INFORMATION STAMPED ON SURFACE AS SHOWN
4. DIMENSIONS ARE AS BUILT .
5. SCRIBE CENTERLINES .003 TO .005 WIDE AND DEEP WHERE SHOWN. STEEL STAMP OR MILL CUT AN INDEX MARK AT ENDS OF EACH CENTERLINE AS SHOWN, 1.53 x 1/32 x 1/4 LONG.



SECTION A-A
SCALE: 1/1



SECTION B-B
SCALE: 1/1

C	7086	shake					
B	2553	12-8-78					
LET	DES. NO.	DATE	CHK	APPROVED	SHELL MFR.	S.A. MFR.	

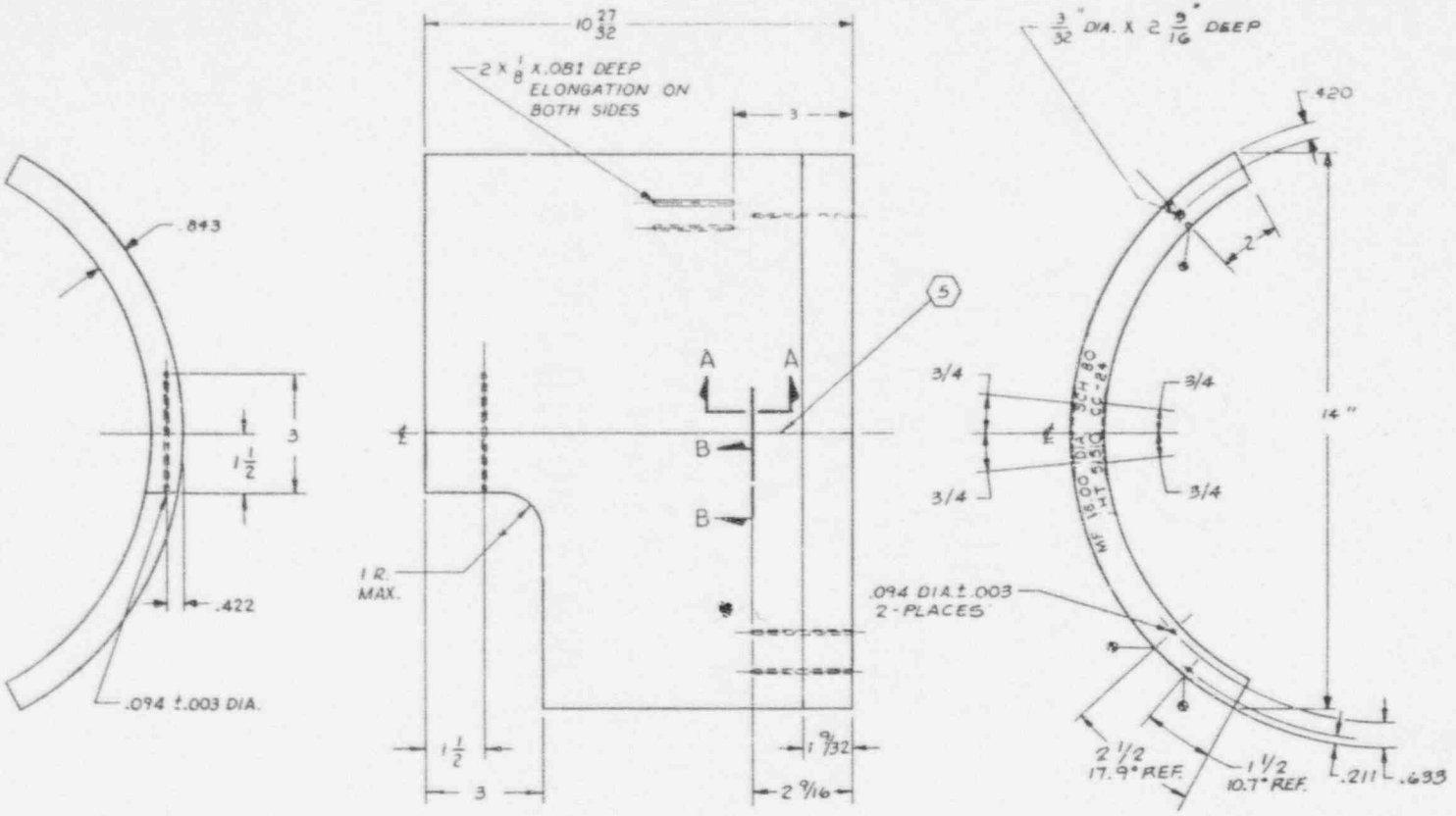
REVISIONS

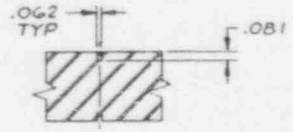
			2
		PART NAME	MATERIAL
		PLATE LIST	

SOUTHWEST RESEARCH INSTITUTE
QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION
SAN ANTONIO, TEXAS

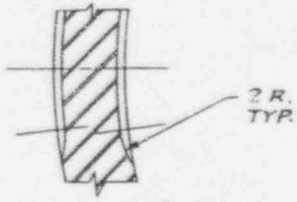
36" CALIBRATION SPOOL
CC-23

DRAWN BY J. RAMOS	DATE 11-1978	SCALE 1/2	C D-2922-2X3 REV C





SECTION A-A
SCALE: 1/1



SECTION B-B
SCALE: 1/1

NOTES:

1. PIPE SIZE 16" SCHEDULE 80, FEEDWATER PIPE, 16" OD 1 and 3
2. B.G. AND E. HT51510
3. CARBON STEEL, ASTM A-106 C.
4. DIMENSIONS ARE AS BUILT.
5. SCRIBE CENTERLINE .003 TO .005 WIDE AND DEEP WHERE NOTED. STEEL STAMP OR MILL CUT AN INDEX MARK AT ENDS OF SCRIBE LINE AS SHOWN 1/32 x 11/32 x 1/4 LONG.

LET	DCN NO	DATE	CHK	SSOR SP SUPVR	PROJ MGR	QA MGR
E	7106	4/4/80	EW			
D	3348	9/19/79				
C	2555	7-17-78				

REVISIONS

LET	CHANGE	DATE	CHK	APP
B	INCORPORATED DCN - 648	4-3-74	JA	
A	1) ADDED: DIA. CALLOUT 3). NOTE ONE. WAS: PIPE SIZE 16" SCH. 80. 2). 2 9/16" WAS: 2 11/64" 11) ADDED: NOTE 3.			

REVISIONS

ITEM NO	NO REQD	PART NAME	3 MATERIAL
		F. D. R. 9-8-78	PARTS LIST

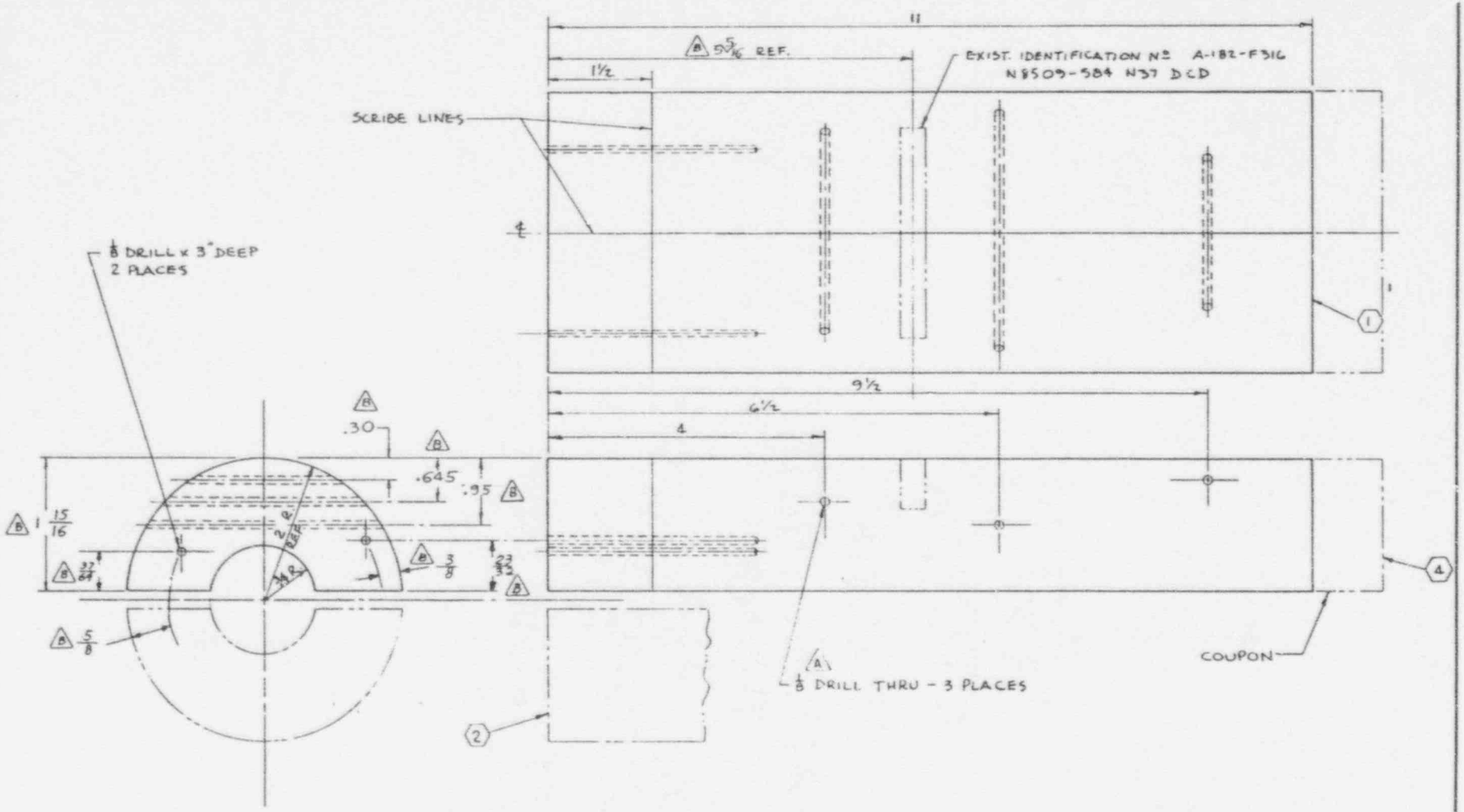
DRAWN BY: G. Ramos
DESIGNED BY:
CHECKED BY:
APPROVED BY:
MFG. MOD'S:
MATERIAL: 3
HEAT TREAT:
FINISH: 125

TOLERANCES UNLESS NOTED: DECIMALS ±.010, FRACTIONS ±1/16, ANGLES ±.5°

16" PIPE CALIBRATION BLOCK
CC-24

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS

DATE 11-19-73 SCALE 1/2
DRAWING NUMBER C-292067 E
C



NOTES:

1. STEEL STAMP DWG. Nº ON THIS SURFACE
2. STEEL STAMP IDENTIFICATION Nº ON OTHER HALF OF MATERIAL (A1B2-F316 N8509-584 N37 DCD)
3. BREAK SHARP EDGES AND REMOVE BURRS
4. STEEL STAMP DWG. Nº ON COUPON
5. DIMENSIONS ARE AS BUILT. (B)

B	2568							
A	ADDED MISSING DIM	5/16	JA	JK				
REF.	DCN NO.	DATE	DWN.	APP.	APP.	APP.	PART NAME	MATERIAL

REVISIONS — FDR 9-8-78 — PARTS LIST

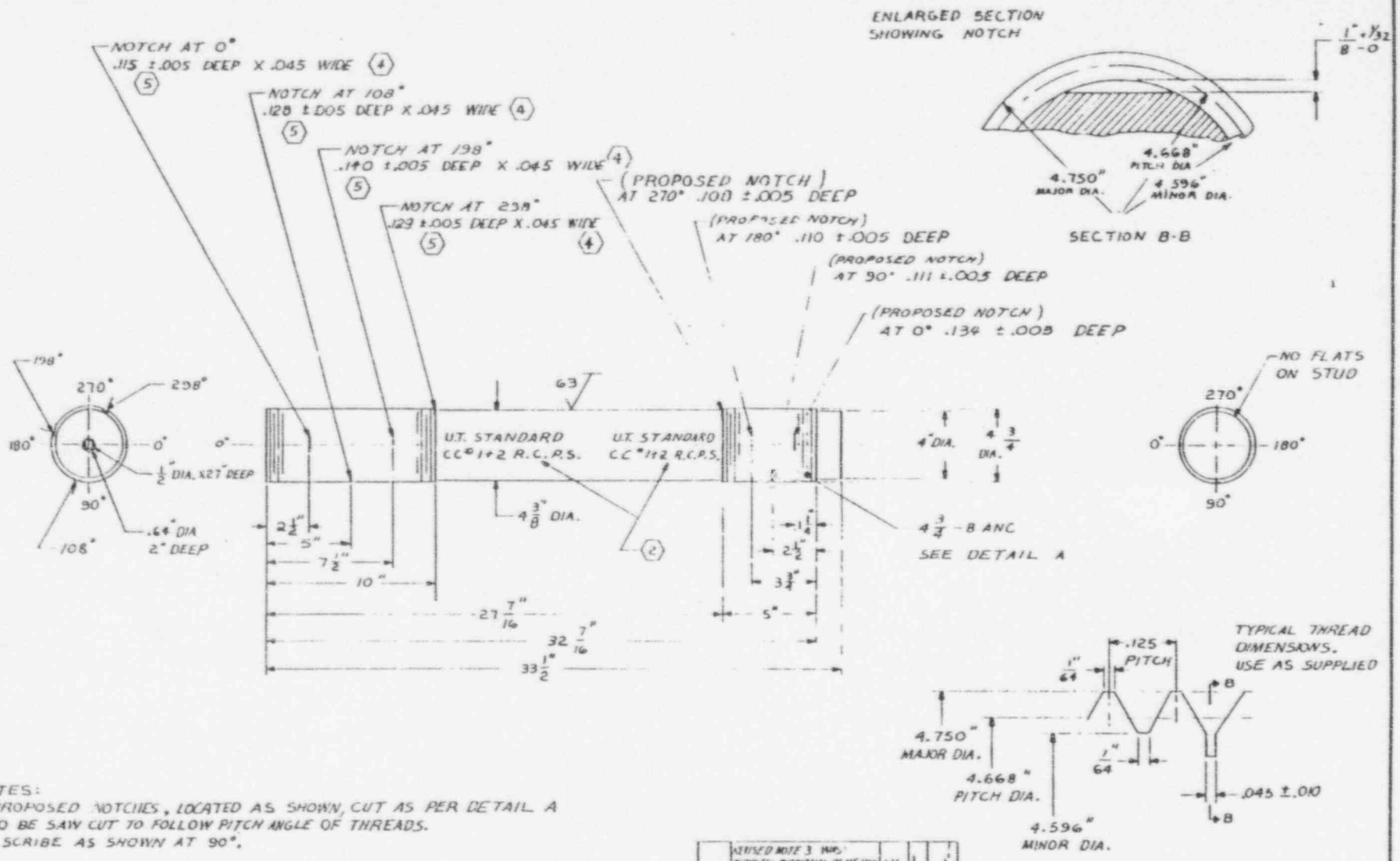
DRAWN BY: ALATORRE
DESIGNED BY: J. CRANE
CHECKED BY: Fred Olivier
APPROVED BY: Raymond J. Stark
NO. REQ'D.
MATERIAL: A1B2 - F316
HEAT TREAT
FINISH
TOLERANCES UNLESS NOTED: DECIMALS ± .010; FRACTIONS ± 1/16; ANGLES ± .5°

4" PRESSURIZER RELIEF NOZZ. TO SAFE END CALIBRATION BLOCK CC-26

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS

DATE 10-7-74 — SHEET 1/1

SIZE C — DRAWING NUMBER C-29[illegible]3 B



NOTES:

1. PROPOSED NOTCHES, LOCATED AS SHOWN, CUT AS PER DETAIL A TO BE SAW CUT TO FOLLOW PITCH ANGLE OF THREADS.
2. SCRIBE AS SHOWN AT 90°.
3. MATERIAL CHECKED TO BE ACOUSTICALLY SIMILAR TO REACTOR COOLANT PUMP STUDS.
4. EXISTING NOTCHES.
5. AS BUILT DIMENSIONS.

LET	CHANGE	DATE	BY	APP
B	REVISED NOTE 3 WAS: ACOUSTIC PROPERTIES OF THE MAT'L ASSUMED SIMILAR TO PUMP STUD SO USE SAME STANDARD IS NOW MAT'L FROM AN EXTRA PUMP SUPP OF SAME MAT.	5-15-74		
A	REDRAWN WITH CHANGES SEE OBSOLETE FILE	1-3-73		

LET	DCN #	DATE	CHK	DESIGN SUPVR	PROJ MGR	QA MGR
E	2548	1-26-78				

REVISIONS

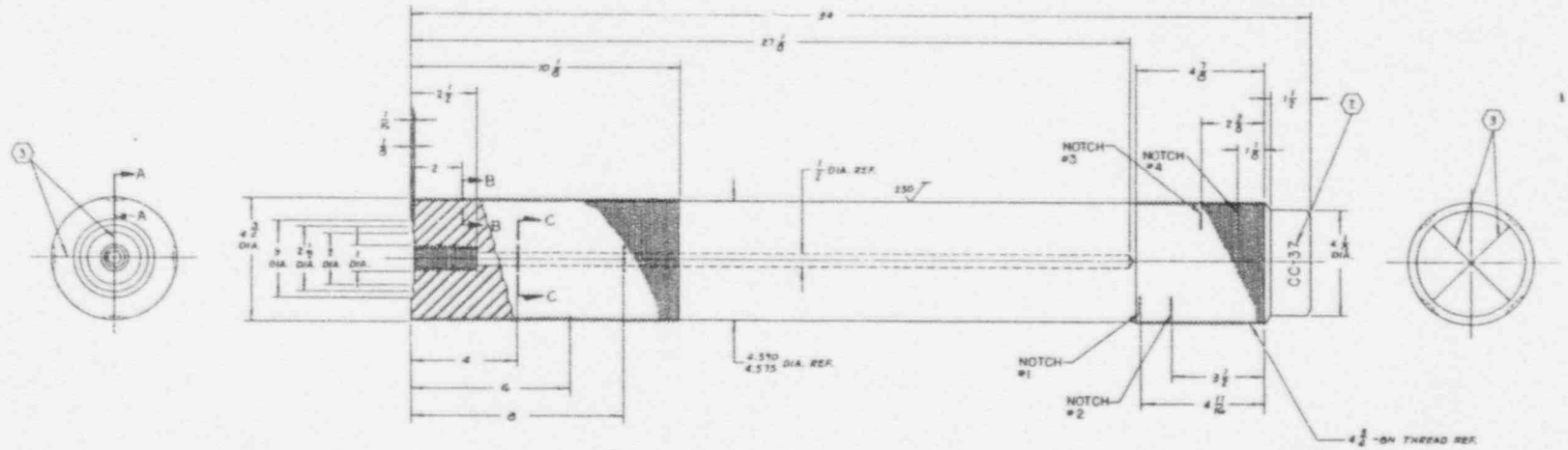
LET	CHANGE	DATE	CH	APP
D	INCORP. DCN 1972	10-25-77		
C	REVISED NOTE 3 WAS: ACOUSTIC PROPERTIES OF MAT. CHECKED SIMILAR TO PROPERTIES OF REACTOR COOLANT PUMP STUDS.	3-25-74		

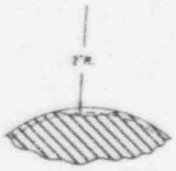
DRAWN BY	J Ramos	TOLERANCES UNLESS NOTED DECIMALS ± .XXX .010 FRACTIONS ± 1/16 ANGLES ± 0°30'	CALVERT CLIFFS 1 AND 2 REACTOR COOLANT PUMP STUD, CALIBRATION BLOCK CC-30
DESIGNED BY		MATERIAL (3)	
CHECKED BY		HEAT TREAT	
APPROVED BY		FINISH 63	SOUTHWEST RESEARCH INSTITUTE SAN ANTONIO, TEXAS

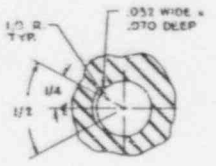
DATE 1-14-73 SCALE 1/4

DRAWING NUMBER C-2929058 E

NO. REQD	PART NO.	PART NAME	MATERIAL
		F. D. R 9-8-78	PARTS LIST







NOTES:

1. MAKE FROM PUMP STUD SUPPLIED BY CALVERT CLIFFS.
2. STEEL STAMP STANDARD 1D NO. AS SHOWN, ON SURFACE INDICATED, IN CHARACTERS 3/16 MINIMUM HEIGHT.
3. SCRIBE CENTERLINES .003 TO .005 WIDE AND DEEP WHERE NOTED, STEEL STAMP OR MILL CUT AN INDEX MARK AT EACH END OF CENTERLINE AS SHOWN, 1/32 WIDE x 1/32 DEEP x 1/4 LONG WHERE NOTED.
4. NOTCHES TO BE CENTERED ON THREAD ROOT AND ALIGNED WITH THREAD PITCH.

CC-37

E	9241	[illegible]	[illegible]
A	7091	[illegible]	[illegible]
LET	ECN NO.	DATE	

REVISIONS

TOLERANCES UNLESS NOTED
DECIMALS ±.010
FRACTIONS ±1/16
FINISH 125 ✓ EXCEPT AS NOTED

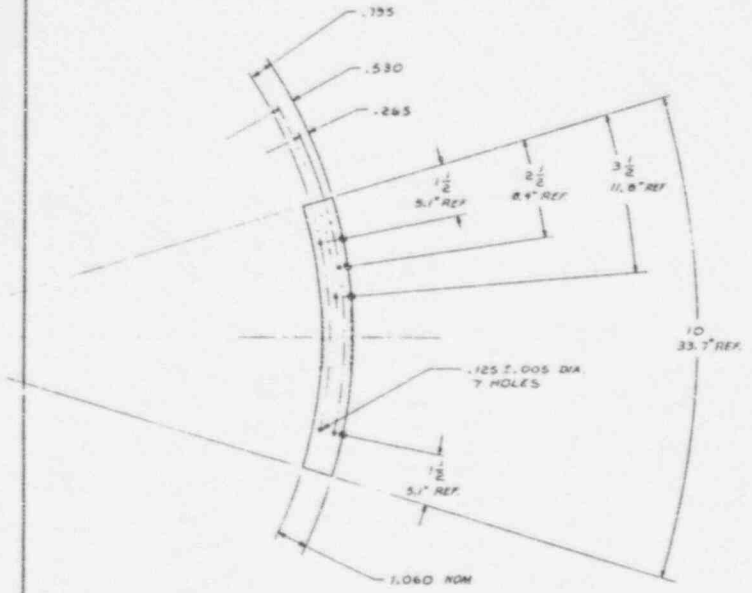
PARTS LIST

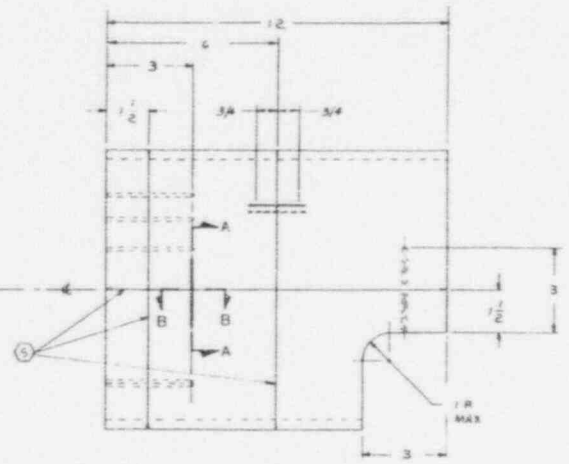
SOUTHWEST RESEARCH INSTITUTE
QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION
SAN ANTONIO, TEXAS

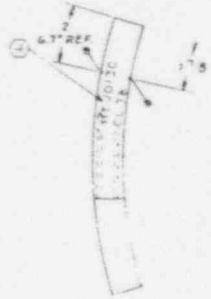
PUMP STUD UT
CALIBRATION BLOCK
CALVERT CLIFFS

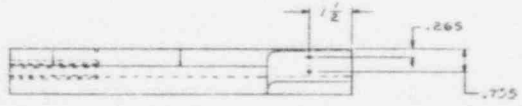
SCALE 1/2

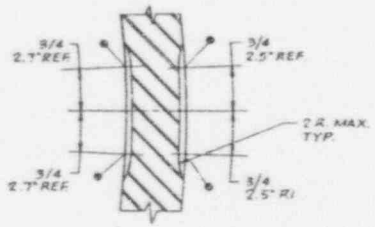
C D-2929-238 B



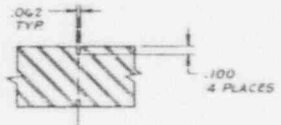








SECTION A-A
SCALE: 1/1



SECTION B-B
SCALE: 1/1

(4) MAKE FROM 34" PIPE, ASTM A155 KC65 CL1, HEAT NO. 30130.

(5) SCRIBE CENTERLINES .003 TO .005 WIDE AND DEEP WHERE SHOWN. STEEL STAMP, OR MILL CUT, AN INDEX MARK AT ENDS OF EACH CENTERLINE AS SHOWN, 1/32 x 1/32 x 1/4 LONG.

(4) STEEL STAMP ID. NO AND HEAT NO., AS SHOWN, ON SURFACE INDICATED, IN CHARACTERS 3/16 MIN. HEIGHT.

3. MATERIAL FOR BLOCK MUST BE FREE OF: PIPE SEAM WELDS, FABRICATION AND REPAIR WELDS, ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.

2. DEBURR AND BREAK SHARP EDGES.

1. DIMENSIONS ARE IN INCHES.

NOTES:

CC-38

REVISIONS								
LET	DESCRIPTION	DATE	APVD	LET	DESCRIPTION	DATE	APVD
A	TOOL	1/30/80					

SOUTHWEST RESEARCH INSTITUTE
QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION
SAN ANTONIO, TEXAS

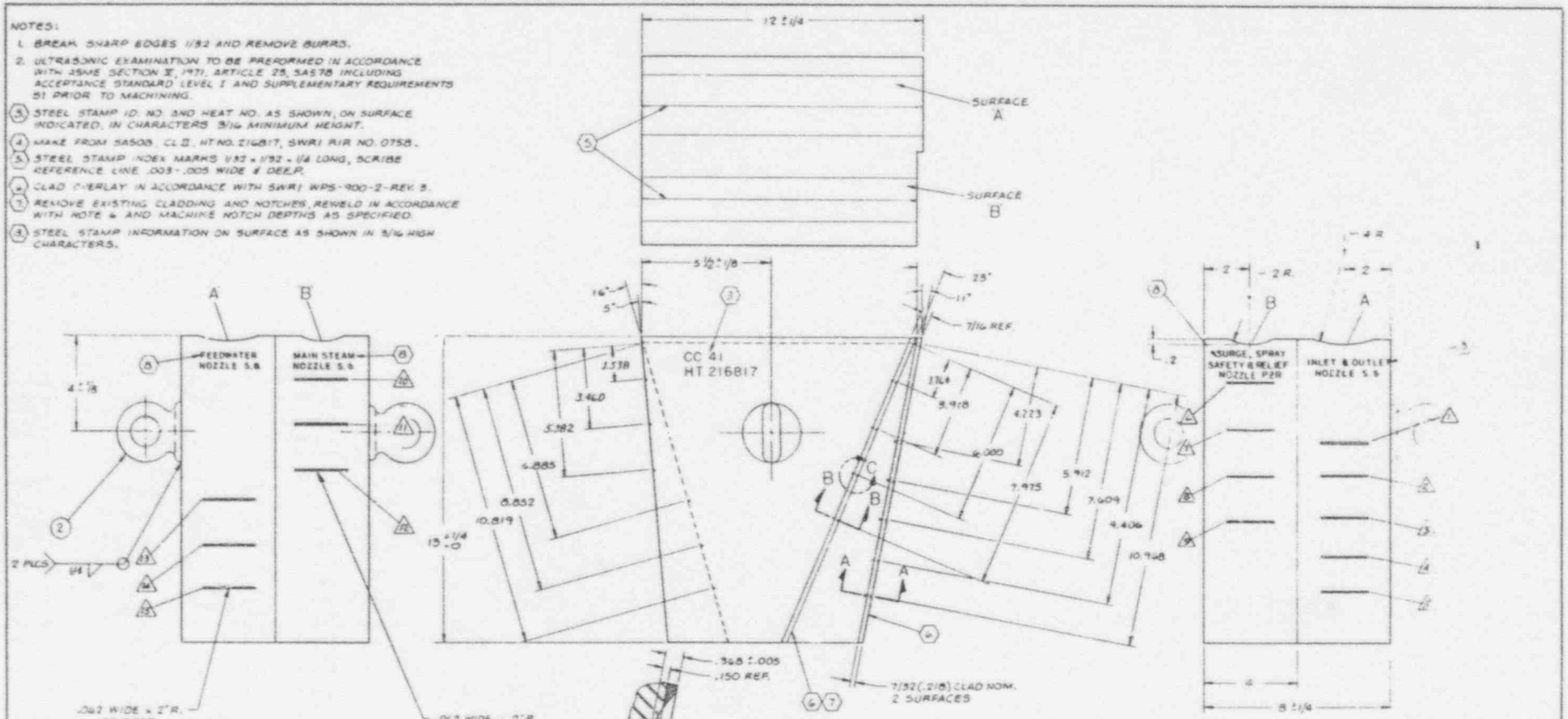
34" PIPE ULTRASONIC CALIBRATION BLOCK

CALVERT CLIFFS

SCALE 1/2 | C | D-24255-A | A

NOTES:

1. BREAK SHARP EDGES 1/32 AND REMOVE BURRS.
2. ULTRASONIC EXAMINATION TO BE PREFORMED IN ACCORDANCE WITH ASME SECTION XI, 1971, ARTICLE 23, SA578 INCLUDING ACCEPTANCE STANDARD LEVEL I AND SUPPLEMENTARY REQUIREMENTS S1 PRIOR TO MACHINING.
3. STEEL STAMP I.D. NO. AND HEAT NO. AS SHOWN, ON SURFACE INDICATED, IN CHARACTERS 3/16 MINIMUM HEIGHT.
4. MAKE FROM SA508, CL II, HT NO. 216817, SWRI PUR NO. 0758.
5. STEEL STAMP INDEX MARKS 1/32 x 1/32 x 1/4 LONG, SCRIBE REFERENCE LINE .003 - .005 WIDE & DEEP.
6. CLAD OVERLAY IN ACCORDANCE WITH SWRI WPS-900-2-REV. 3.
7. REMOVE EXISTING CLADDING AND NOTCHES, REWELD IN ACCORDANCE WITH NOTE 6 AND MACHINE NOTCH DEPTHS AS SPECIFIED.
8. STEEL STAMP INFORMATION ON SURFACE AS SHOWN IN 5/16 HIGH CHARACTERS.



DASH NO.	NOZZLE ID	EXAMINATION ANGLE	WEDGE RADIUS	BLOCK ANGLE	CALIB. SURFACE	NOTCH NOS △	TRANSDUCER WEDGE PART NO.
1	S.G. INLET	35°	4	11°	A	2, 3, 4, 5	D-14795-177
2	S.G. OUTLET	32°	4	11°	A	1, 2, 3, 4, 5	D-14795-178
3	S.G. FEEDWATER	25°	4	16°	A	13, 14, 15	D-14795-151
4	S.G. FEEDWATER	35°	4	16°	A	13, 14, 18	D-14795-179
5	S.G. MAIN STEAM	40°	3	5°	B	10, 11, 12	D-14795-180
6	PZR SURGE	35°	2.5	25°	B	7, 8, 9	D-14796-106
7	PZR SPRAY	20°	1.5	25°	B	6, 7, 8	D-14795-170
8	PZR SAFETY & RELIEF	20°	1.5	23°	B	6, 7, 8	D-14795-170

CC-41

2	2	LIFTING EYE	
1	1	BLOCK	4

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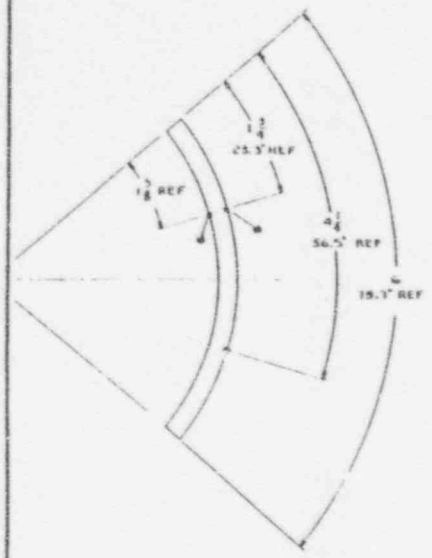
SAN ANTONIO, TEXAS

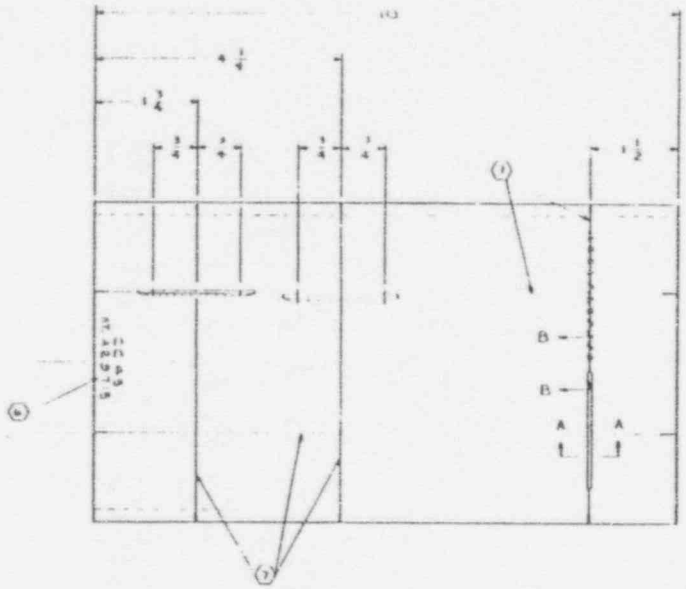
O.D. INNER RADIUS CALIBRATION BLOCK

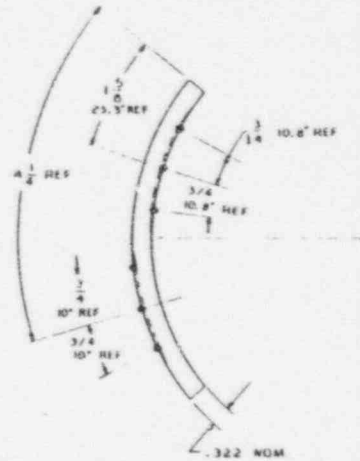
CALIBRATION STD.

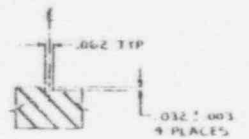
SCALE 1/2 | C D-2222-50 | REV C

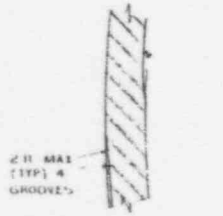
REV			
C	7.136	1/31/78	
B	7.118	1/30/78	
LET	BLK. NO.	DATE	ENGINEERING RELEASE NO.











SECTION A-A
SCALE: 2/1

SECTION B-B
SCALE: 2/1

NOTES:
1. DIMENSIONS ARE IN INCHES
2. BREAK SHARP EDGES AND REMOVE BURRS.
3. DO NOT MACHINE OR ALTER ID OR OD SURFACES.
4. ID AND OD SURFACES TO BE FREE OF TOOL MARKS.
5. MATERIAL FOR BLOCK TO BE FREE OF:
   FABRICATION OR REPAIR WELDS, PIPE SEAM WELDS,
   ANY LAMINAR INDICATIONS WHICH MAY AFFECT
   ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.

⑥ STEEL STAMP ID Nº AND HEAT Nº, AS SHOWN, ON SURFACE INDICATED IN CHARACTERS 3/16 MIN. HEIGHT

⑦ SCRIBE CENTERLINES .003 TO .005 WIDE AND DEEP WHERE NOTED. STEEL STAMP OR MILL CUT, AND INDEX MARK AT EACH END OF CENTERLINES AS SHOWN, 1/32 X 1/32 X 1/4 LONG

⑧ MAKE FROM 8" PIPE, SCHEDULE 40S, ASTM A 312 TYPE 304 HEAT Nº A25715, SwRI LOG Nº 0140 B

ID Nº CC-45

MATERIAL ⑧

PARTS LIST

SOUTHWEST RESEARCH INSTITUTE
QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION
SAN ANTONIO, TEXAS

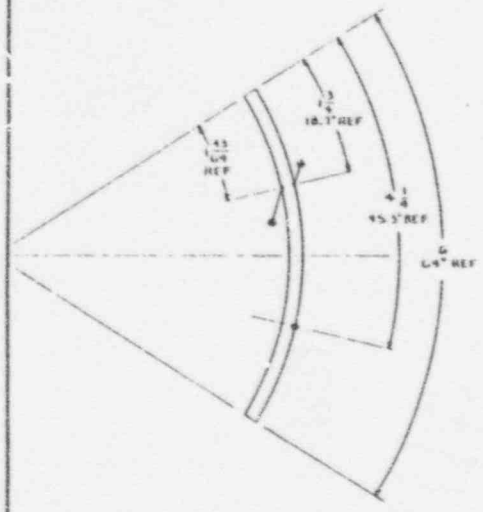
8" PIPE ULTRASONIC CALIBRATION BLOCK

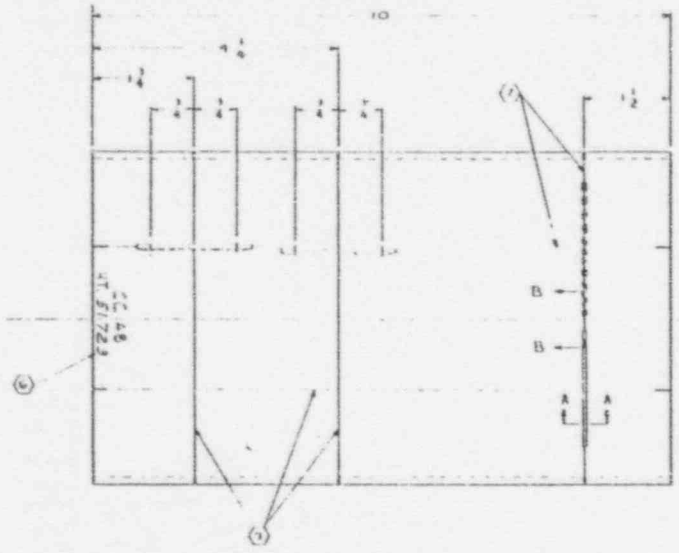
CALVERT CLIFFS

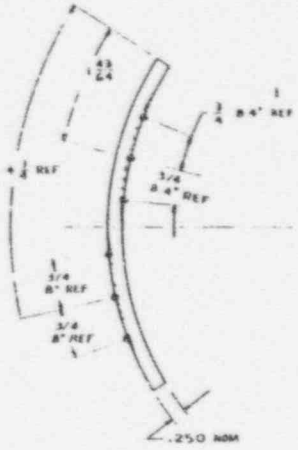
SCALE 1/1

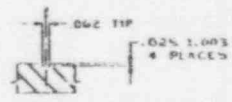
C

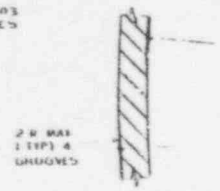
D-2929242











NOTES:

1. DIMENSIONS ARE IN INCHES.
2. BREAK SHARP EDGES AND REMOVE BURRS.
3. DO NOT MACHINE OR ALTER ID OR OD SURFACES.
4. ID AND OD SURFACES TO BE FREE OF TOOL MARKS.
5. MATERIAL FOR BLOCK TO BE FREE OF:
   FABRICATION OR REPAIR WELDS, PIPE SEAM WELDS.
   ANY LAMINAR INDICATIONS WHICH MAY AFFECT
   ANGLE BEAM OR STRAIGHT BEAM CALIBRATION.

⑥ STEEL STAMP ID N° AND HEAT NO. AS SHOWN, ON SURFACE INDICATED, IN CHARACTERS 3/16 MIN. HEIGHT.

⑦ SCRIBE CENTERLINES .003 TO .005 WIDE AND DEEP WHERE NOTED. STEEL STAMP, OR MILL CUT, AN INDEX MARK AT EACH END OF CENTERLINES AS SHOWN, 1/32 X 1/32 [illegible].

⑧ MAKE FROM 10" PIPE, SCHEDULE 20, ASTM A-312 TYPE 304, HEAT N° 51723 SwRI DWG NO. [illegible]

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS

10" PIPE ULTRASONIC CALIBRATION BLOCK

CALVERT CLIFFS

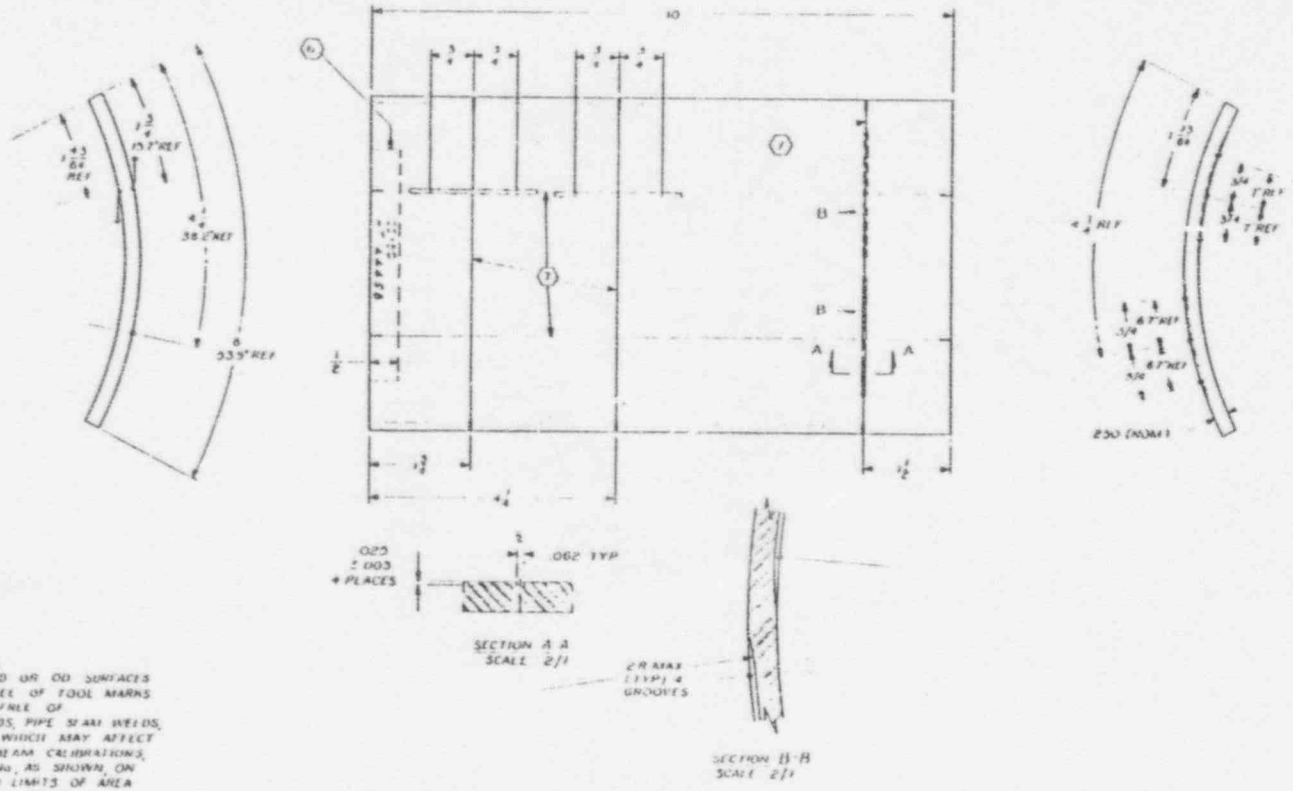
7-26-78

SCALE 1/1

C

D-2929247

REVISIONS



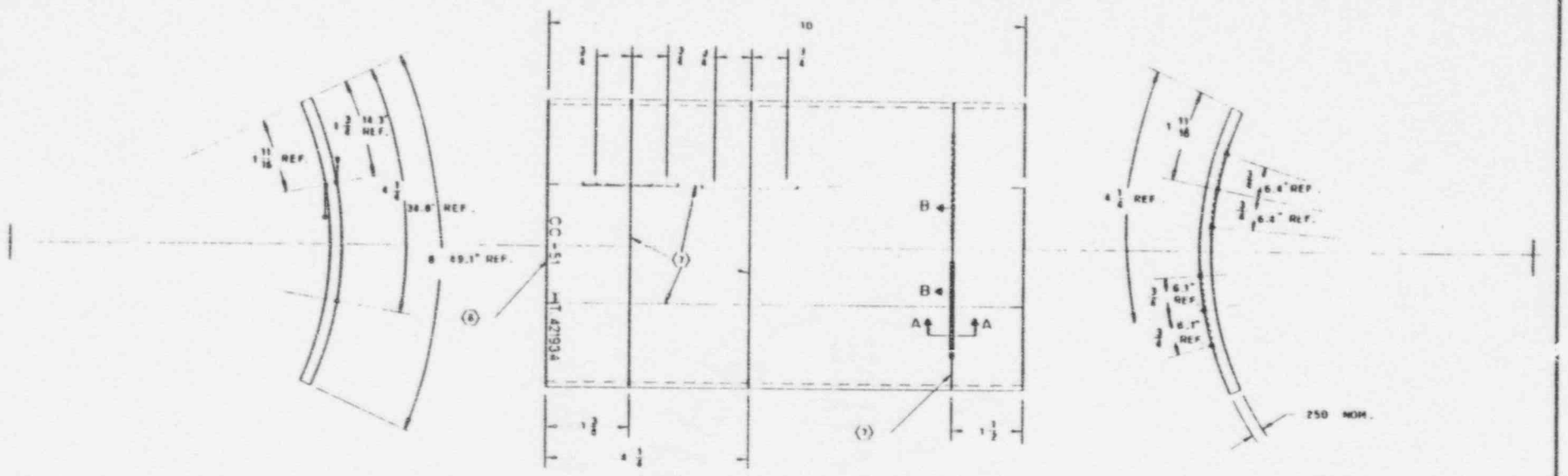
NOTES

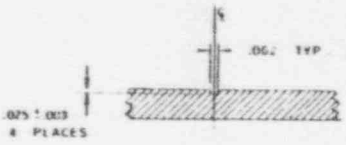
1. DIMENSIONS ARE IN INCHES
2. MAINTAIN ℄ BREAK SHARP EDGES
3. DO NOT MACHINE OR ALTER ID OR OD SURFACES
4. ID ℄ OD SURFACES TO BE FREE OF TOOL MARKS
5. MATERIAL FOR BLOCK TO BE FREE OF FABRICATION OR REPAIR WELDS, PIPE SEAM WELDS, ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.
6. STEEL STAMP ID No ℄ HEAT No. AS SHOWN ON SURFACE INDICATED AND WITHIN LIMITS OF AREA NOTED IN CHARACTERS .375 MIN HEIGHT
7. SCRIBE CENTERLINES .003 TO .005 WIDE AND DEEP WHERE NOTED. STEEL STAMP ON MILL CUT, AN INDEX MARK AT EACH END OF CENTERLINES AS SHOWN. USE E 050 x 1/4 LONG
8. MAKE FROM 12" PIPE, SCHEDULE 20, ASTM A-312 TYP 304, HEAT No 44430 , SWRI HEAT No 0874E

CC-50

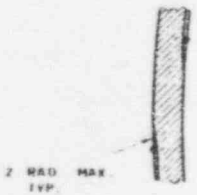
			SOUTHWEST RESEARCH INSTITUTE
			12" PIPE ULTRASONIC CALIBRATION BLOCK CALVERT CLIFFS
			SCALE 1/1 — C — D-23979 248

C-49





SECTION A - A
SCALE : 2/1



SECTION B - B
SCALE : 2/1

NOTES :

1. DIMENSIONS ARE IN INCHES .
2. BREAK ALL SHARP EDGES AND REMOVE BURRS .
3. DO NOT MACHINE OR ALTER ID. OR OD. SURFACES .
4. ID. AND OD. SURFACES TO BE FREE OF TOOL MARKS .
5. MATERIAL FOR BLOCK TO BE FREE OF : FABRICATION OR REPAIR WELDS , PIPE SEAM WELDS , ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS .

(6) STEEL STAMP ID. NO. AND HEAT NO. AS SHOWN . ON SURFACE INDICATED , IN CHARACTERS 3/16 MINIMUM HEIGHT .

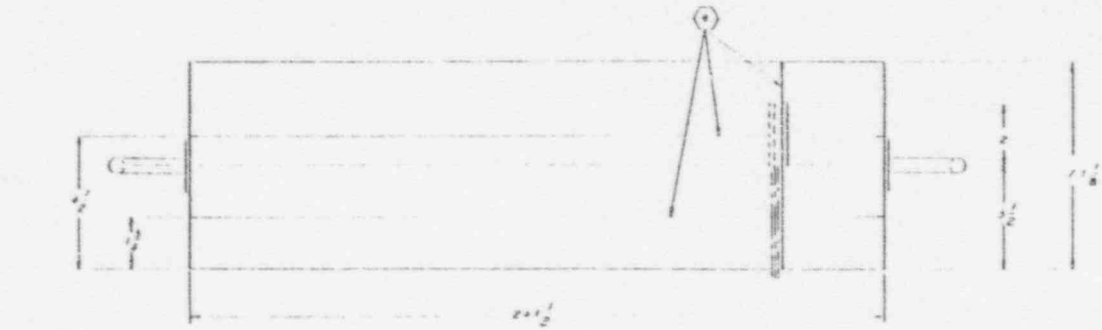
(7) SCRIBE CENTERLINES .003 TO .005 WIDE AND DEEP WHERE NOTED . STEEL STAMP , HOT DIE , AN INDEX MARK AT EACH END OF CENTERLINES AS SHOWN , 1/32 X 1/32 X 1/4 LONG .

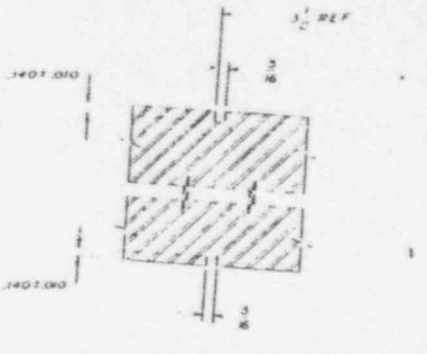
(8) MADE FROM 14 PIPE , SCHEDULE 10 , ASTM A-312 TP 304 , HEAT NO. 421934 SWRI LOG NO. 01548

CC-51

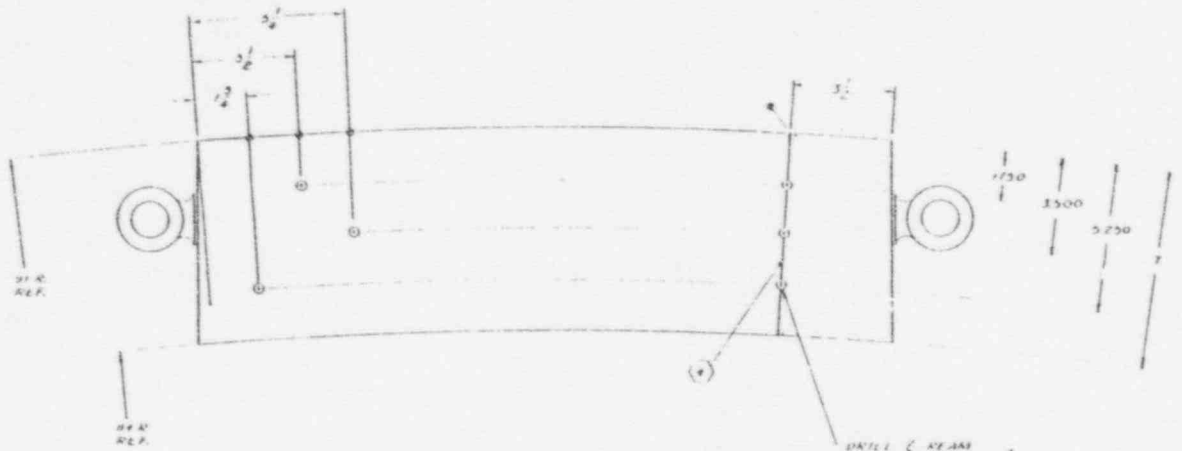
			(8)
			SOUTHWEST RESEARCH INSTITUTE
			14" PIPE ULTRASONIC CALIBRATION BLOCK
			CALVERT CLIFFS 2
			1/1 C D-2929 240

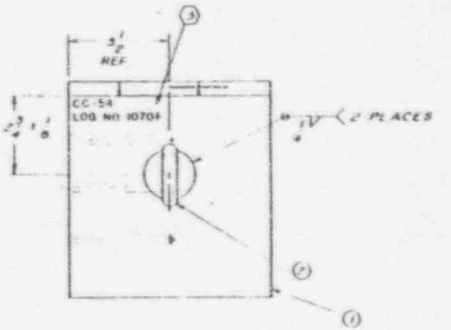
C-50





SECTION A-A
SCALE: 1/1





NOTES:

1. BREAK AND BREAK SHARP EDGES.
2. MATERIAL FOR BLOCK TO BE FREE OF: FABRICATION OR REPAIR WELDS AND LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.
3. STEEL STAMP ID Nº AND LOG. Nº AS SHOWN ON ON SURFACE INDICATED, IN CHARACTERS 5/16 MIN. HEIGHT.
4. SCRIBE CENTERLINES AS SHOWN .003 TO .005 WIDE ℄ DEEP. STEEL STAMP OR MILL CUT AN INDEX MARK AT EACH END OF CENTERLINE AS SHOWN, 1/32" X 1/32" X 1/4 LONG.
5. MATL: FORGE SA182 AS11 GR.B STAMP LOG. NO 10701.

CC 54

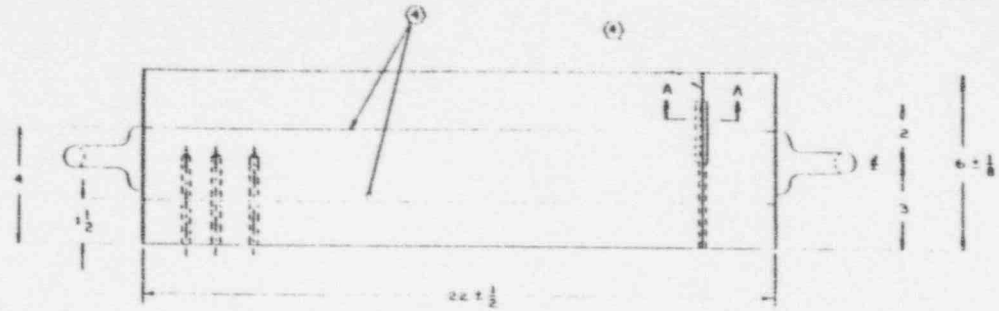
2	2	LIFTING EYE	MASTER CAVE #3024726
1	1	BLOCK	

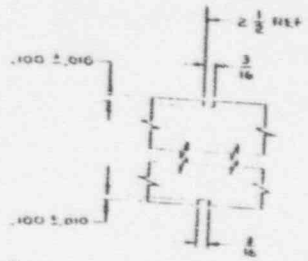
PARTS LIST

SOUTHWEST RESEARCH INSTITUTE

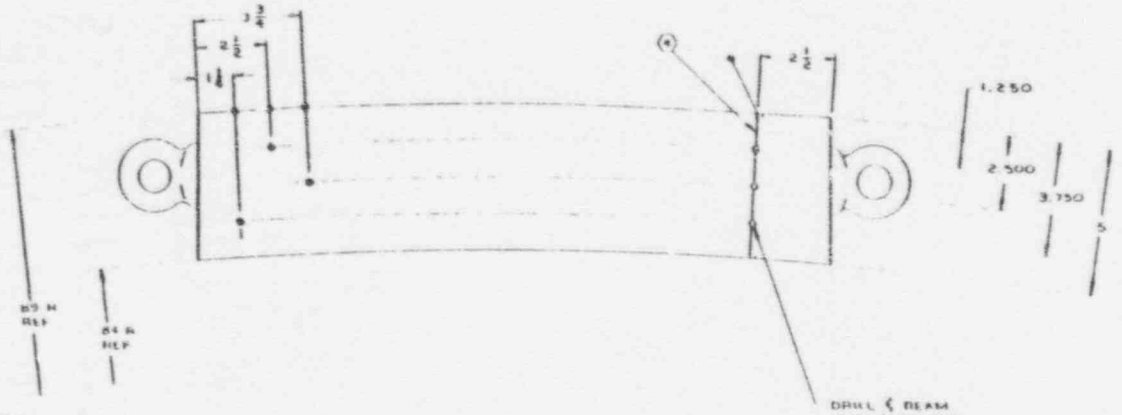
1" VESSEL ULTRASONIC CALIBRATION BLOCK CALVERT CLIFFS

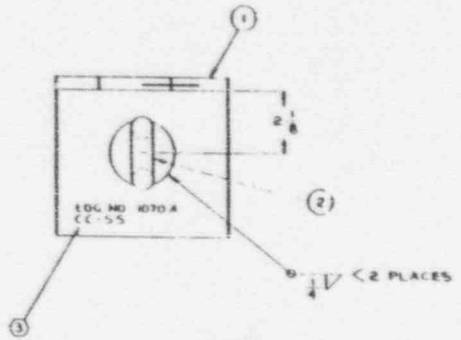
SCALE 1/2 | C | D-2929 254





SECTION A A
SCALE: 1/1





NOTES
1. BREAK SHARP EDGES AND REMOVE BURRS.
2. MATERIAL TO BE FREE OF FABRICATIONS OR REPAIR WELDS AND LAMINAR INDICATIONS WHICH AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.
(3) STEEL STAMP ID N° AND LOG N°, AS SHOWN, ON SURFACE INDICATED, IN CHARACTERS 1/2 SMALL HT.
(4) SCRIBE CENTERLINES .003 TO .005 WIDE X .003 TO .005 DEEP, STEEL STAMP OR MILL CUT AN INDEX MARK AT EACH END OF CENTERLINE, AS SHOWN, 1/32 X 1/32 X 1/4 LONG.
(5) MAKE FROM SA 533 GRB CL 1 RQ LOG NO. 1070 A.

2	2	LIFTING LUG				MASTER CARD NO. 70241 Z6	
1	1	BLOCK	(6)				C

PARTS LIST

A	5398						

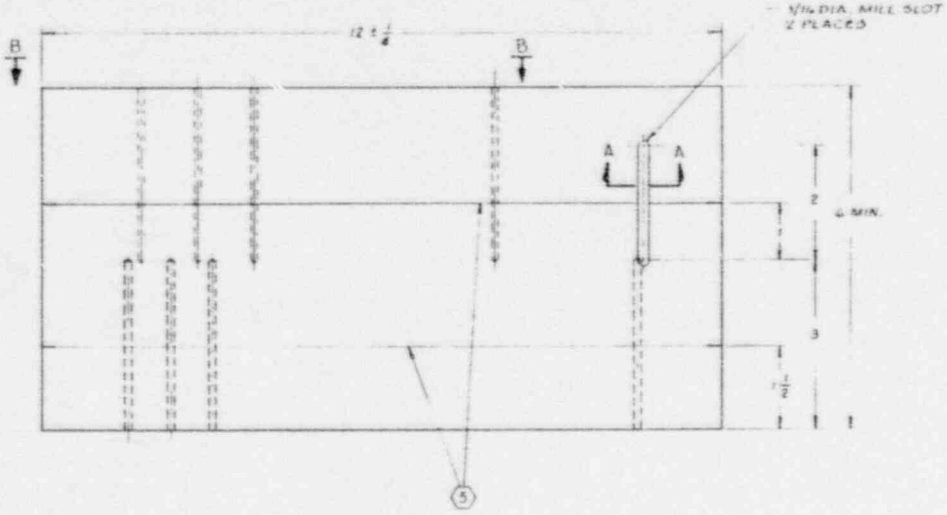
SOUTHWEST RESEARCH INSTITUTE
NUCLEAR ENGINEERING DIVISION
SAN ANTONIO, TEXAS

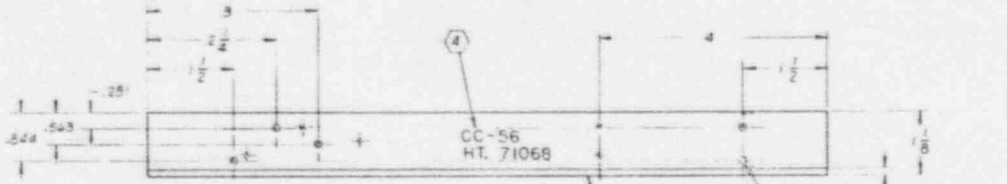
RAMOS

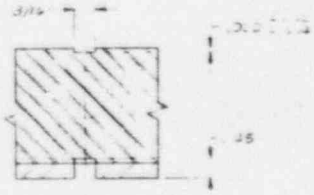
5" VESSEL UT
CALIBRATION BLOCK
CALVERT ELLIS

SCALE 1/2 | C | D-2929 255 | REV A

C-54







NOTES:

1.

2. DEBURR AND BREAK SHARP EDGES.

3. MATERIAL FOR BLOCK TO BE FREE OF:
FABRICATION OR REPAIR WELDS,
ANY LAMINAR INDICATION WHICH MAY AFFECT
ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.

④ STEEL STAMP ID. Nº AND HEAT Nº ON SURFACE INDICATED. IN CHARACTERS 3/16 MIN. HEIGHT.

⑤ SCRIBE CENTERLINE WHERE SHOWN .003 TO .005 WIDE AND DEEP. STEEL STAMP, OR MILL CUT, AN INDEX MARK AS SHOWN 1/32 × 1/32 × 1/4 LONG.

⑥ MAKE FROM ASTM A-515 GR. 70
SWRI LOG Nº 1117 , HEAT Nº 71068.

⑦ CLAD OVERLAY IN ACCORDANCE WITH
SWRI WP-900-2 REV. 1.

VIEW B-B
SCALE 1/1

CC-56

LTR	ECN NO.	DATE
B	7098	
A	7084	

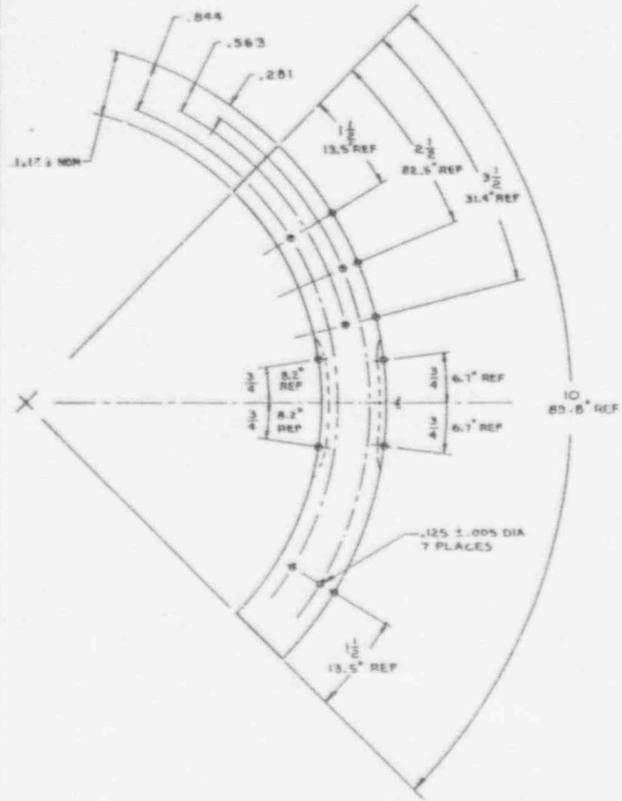
SOUTHWEST RESEARCH INSTITUTE
QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION
SAN ANTONIO, TEXAS

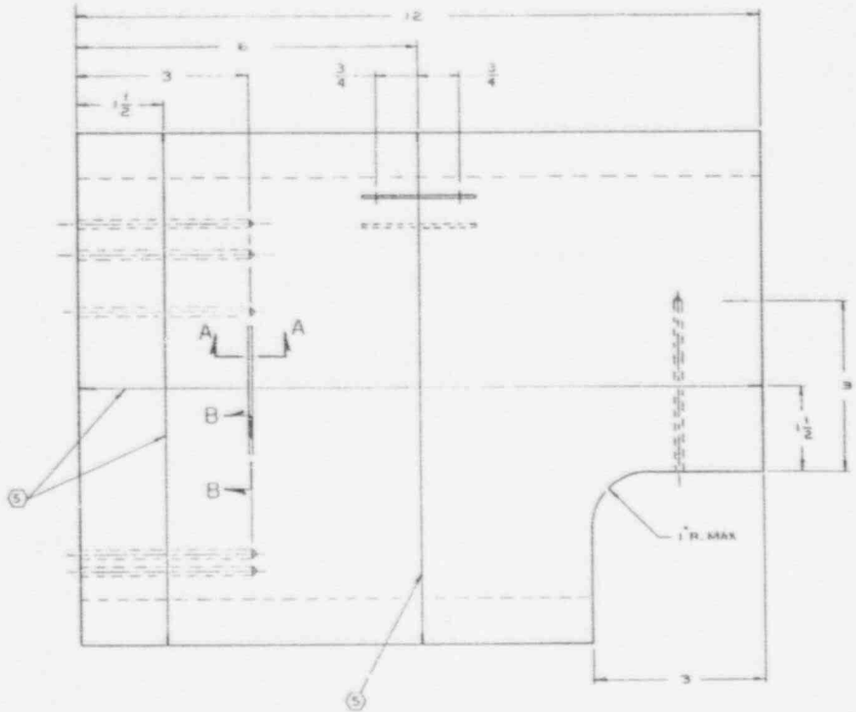
PLATE ULTRASONIC
CALIBRATION BLOCK

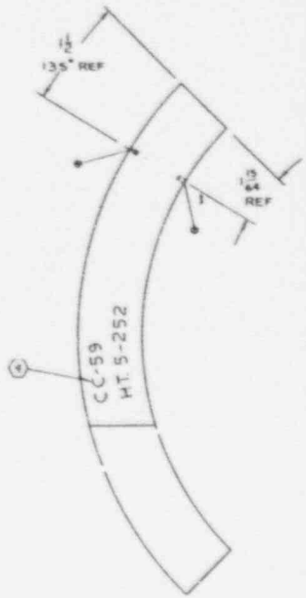
TOLERANCES UNLESS NOTED
DECIMALS ± .010
FRACTIONS ± 1/16
FINISH 125

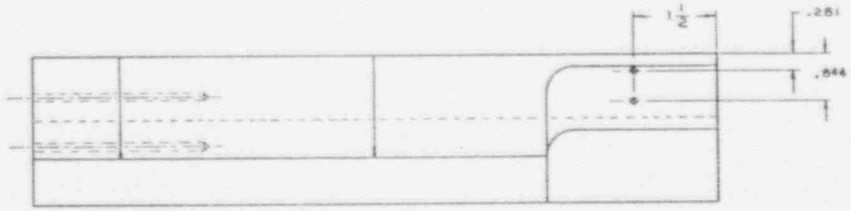
SCALE 1/1

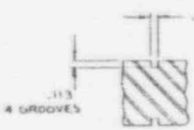
C D-2929-2[illegible] B

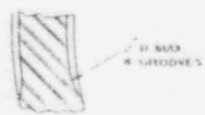












1
2 DEBURR AND BREAK SHARP EDGES.
3 MATERIAL FOR BLOCK MUST BE FREE OF:
PIPE SEAM WELDS, FABRICATION OR REPAIR WELDS,
ANY LAMINAR INDICATIONS WHICH MAY AFFECT
ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.

④ STEEL STAMP ID. Nº, AND HEAT AS SHOWN ON SURFACE INDICATED, IN CHARACTERS 3/16 MIN. HEIGHT.

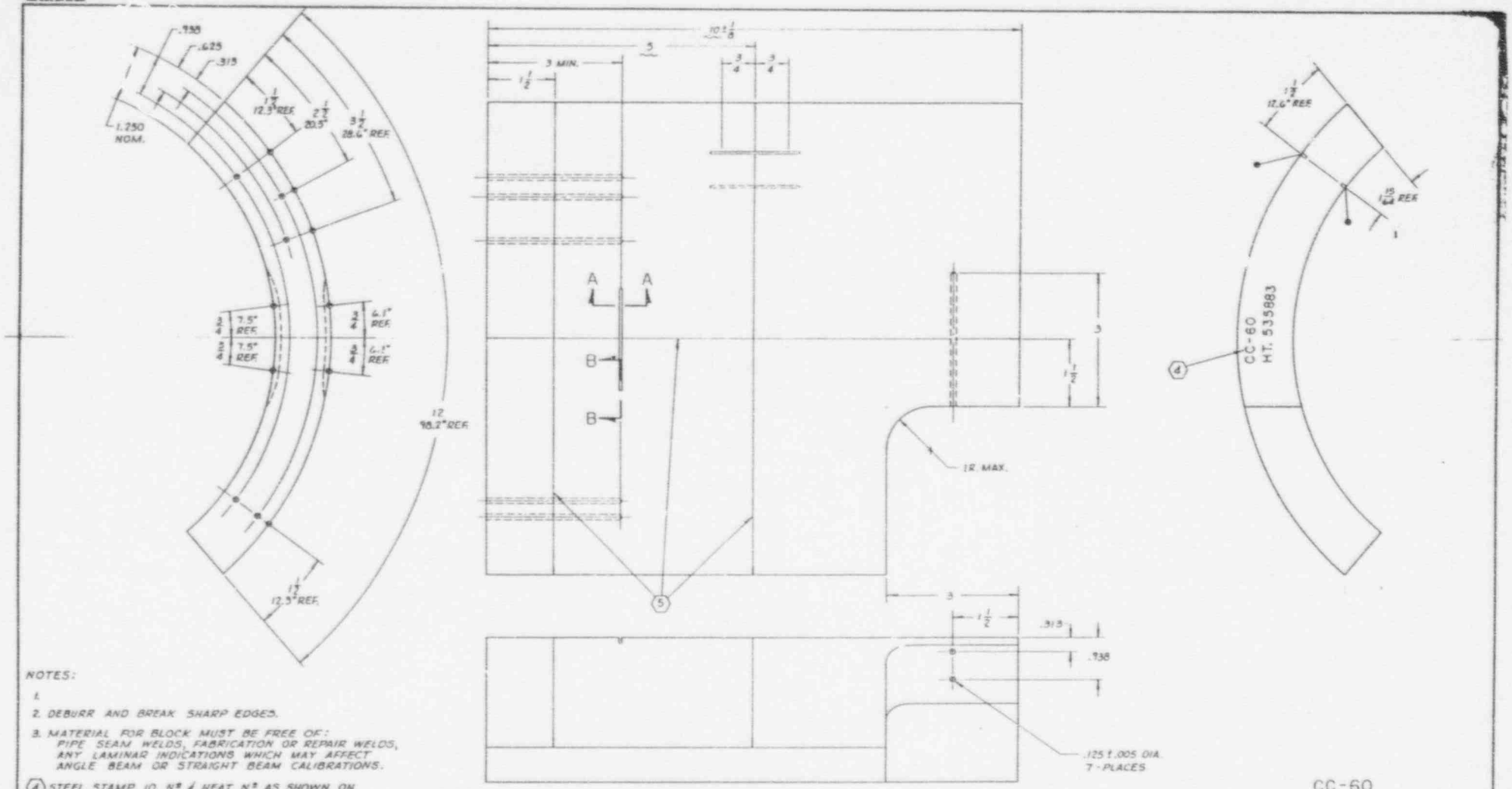
⑤ SCRIBE CENTELINES .003 TO .005 WIDE AND DEEP WHERE NOTED. STEEL STAMP, OR MILL CUT, AN INDEX MARK AT ENDS OF EACH CENTERLINE AS SHOWN, 1/32 X 1/32 X 1/4 LONG.

⑥ MAKE FROM 12" PIPE, SCHEDULE 140, ASTM A-376, TP 316 HEAT Nº 5-252
SwRI LOG Nº 0821.

CC-59

DECIMALS ±.010 FRACTIONS ± 1/16 ANGLES		PART NAME	⑥	MATERIAL
FINISH 125 √		PARTS LIST		
APPROVED	DATE	NEXT ASSEMBLIES	SOUTHWEST RESEARCH INSTITUTE QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION SAN ANTONIO, TEXAS	
	9-19-79	P.O.A. DATE: 9-18-79	12" PIPE ULTRASONIC CALIBRATION BLOCK CALVERT CLIFFS	
	9/4/79	DRAWN BY RAMOS		
E.T. McGrath	9/19/79	CHECKED BY	SCALE 1/1	C D-2929 253

REVISIONS



NOTES:

1.

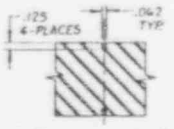
2. DEBURR AND BREAK SHARP EDGES.

3. MATERIAL FOR BLOCK MUST BE FREE OF: PIPE SEAM WELDS, FABRICATION OR REPAIR WELDS, ANY LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.

(4) STEEL STAMP ID. Nº 4 HEAT Nº AS SHOWN ON SURFACE INDICATED, IN CHARACTERS 3/16 MIN. HEIGHT.

(5) SCRIBE CENTERLINES .003 TO .005 WIDE AND DEEP WHERE NOTED. STEEL STAMP OR MILL CUT AN INDEX MARK AT ENDS OF EACH CENTERLINE AS SHOWN, 1/32 x 1/32 x 1/4 LG.

(6) MAKE FROM 14" PIPE, SCHEDULE 140, ASTM A-376 TP 316 SWRI RIC Nº 70 , HEAT Nº 535883.



SECTION A-A
SCALE: 1/1

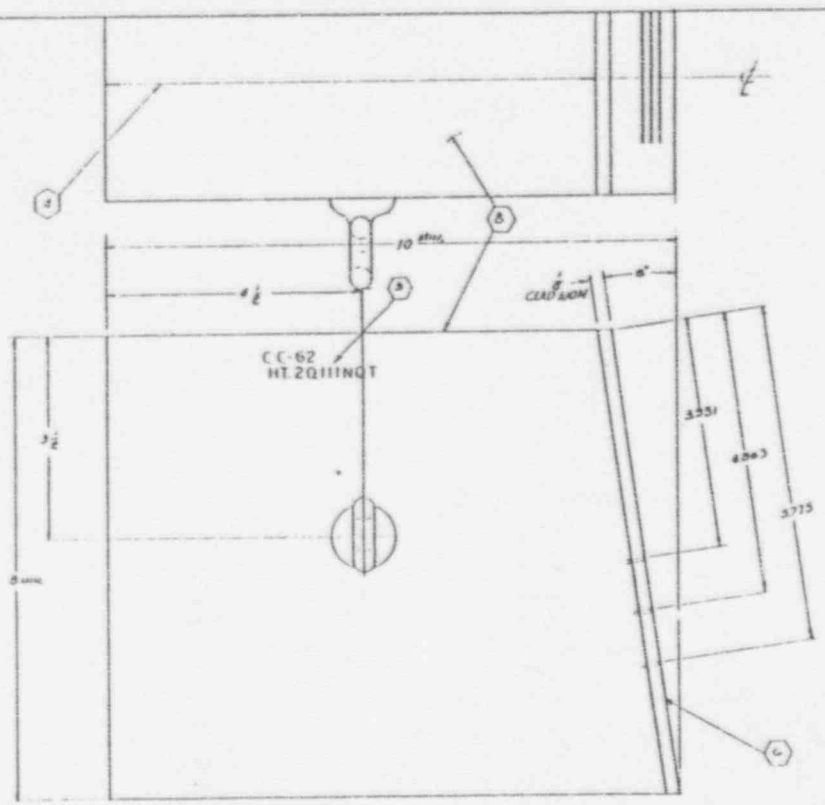
SECTION B-B
SCALE: 1/1

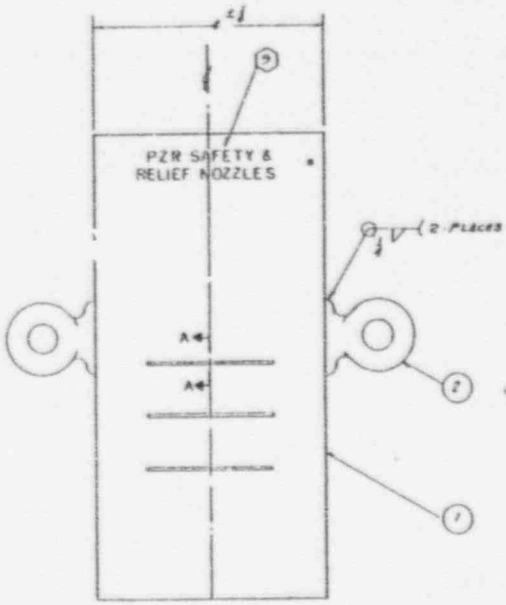
SOUTHWEST RESEARCH INSTITUTE
QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION
SAN ANTONIO, TEXAS

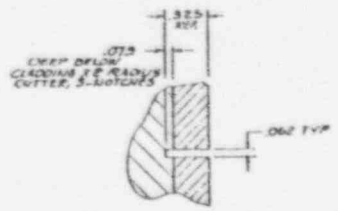
14" PIPE ULTRASONIC CALIBRATION BLOCK

CALVERT CLIFF

SCALE 1/1 | C | D-2929-256 | A







SECTION A-A
SCALE 8/1

NOTES:

1. BREAK SHARP EDGES AND REMOVE BURRS.
2. MATERIAL TO BE FREE OF FABRICATION OR REPAIR WELDS AND LAMINAR INDICATIONS WHICH MAY AFFECT ANGLE BEAM OR STRAIGHT BEAM CALIBRATIONS.
3. STEEL STAMP ID. NO. AS SHOWN ON SURFACE INDICATED IN CHARACTER 5/16 IN HEIGHT.
4. SCRIBE CENTERLINE .003 TO .005 WIDE AND DEEP. CENTERLINE NOTCHES. STEEL STAMP OR MILL CUT AN INDEX MARK AT EACH END OF CENTERLINE AS SHOWN (1/32 & 1/16 x 1/4 LONG).
5. MADE FROM ASME SA 508, CL 2, M.T. 2 QUENCHED & TEMPERED SWRI LOG 1697
6. STAINLESS STEEL CLAD OVERLAY IN ACCORDANCE WITH SWRI-WPS-300-2-REV. 2
7. POSTWELD HEAT TREATMENT IN ACCORDANCE WITH SECTION V, ARTICLE 4, 1977 EDITION OF THE ASME BOILER AND PRESSURE VESSEL CODE
8. NOTCHES TO BE USED FOR THE CALIBRATION AND EVALUATION OF THE PRESSURE SAFETY & RELIEF NOZZLES USING A 35° FLAT TRANSDUCER WEDGE (C-1301) IN 10" FROM SURFACE INDICATED.
9. STEEL STAMP INFORMATION ON SURFACE INDICATED AS SHOWN IN 3/16 HIGH CHARACTERS

CC-62

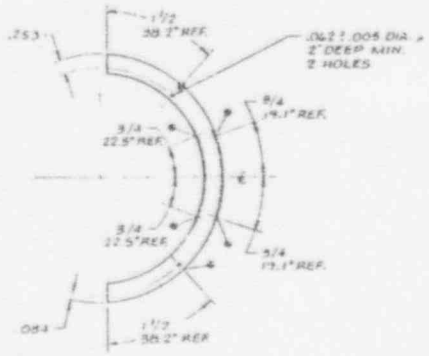
2	2	LIFTING EYE	MCMASTER CARR NO. 3020 T 21
1	1	BLOCK	(5)

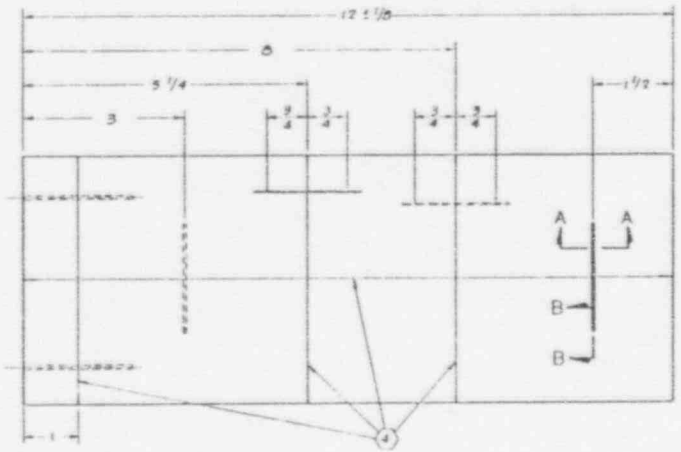
SOUTHWEST RESEARCH INSTITUTE

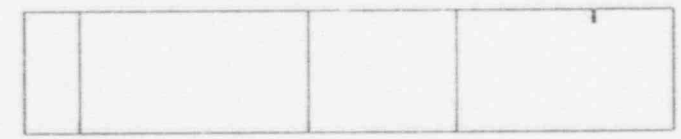
NOZZLE INNER RADIUS CAVITY FOR PZR SAFETY & RELIEF NOZZLES
CALVERT CLIFFS

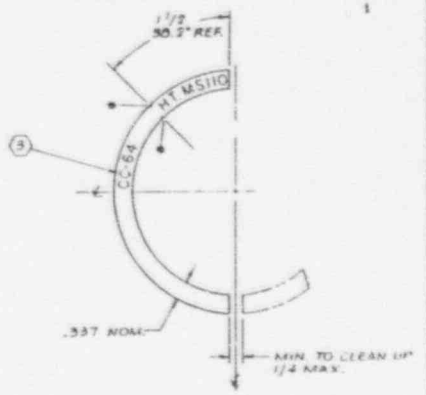
SCALE 1/1 | C | D-2929-6.00

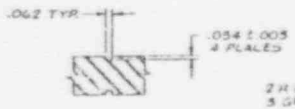
C-61











NOTES:

1. DEBURR AND BREAK SHARP EDGES.
2. MATERIAL FOR BLOCK TO BE ULTRASONICALLY EXAMINED IN ACCORDANCE WITH SWRI OPERATING PROCEDURE IX-FE-120-2 LASTEST REVISION.
3. STEEL STAMP ID NO. AND HEAT NO. AS SHOWN ON SURFACE INDICATED, IN CHARACTERS 3/16 MIN. HEIGHT.
4. SCRIBE CENTERLINES AS SHOWN .003 TO .005 WIDE AND DEEP WH E NOTED. STEEL STAMP OR MILL CUT AN INDEX MARK AT ENDS OF EACH CENTERLINE AS SHOWN 1/32 × 1/32 × 1/4 LONG.
5. MAKE FROM 4" PIPE, SCHEDULE 80S, ASTM A376 GR. 304 HEAT NO. MS110, SWRI LOG NO. 2501 B.
6. DESIGNED IN ACCORDANCE WITH REQUIREMENTS OF THE 1983/1983 ASME SECTION XI AND SWRI NDT PROCEDURES.

SECTION A-A
SCALE: 2/1

SECTION B-B
SCALE: 2/1

(1-80S-.337-SS)-CC-64

5

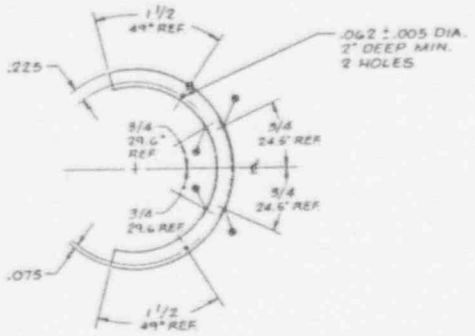
PARTS LIST

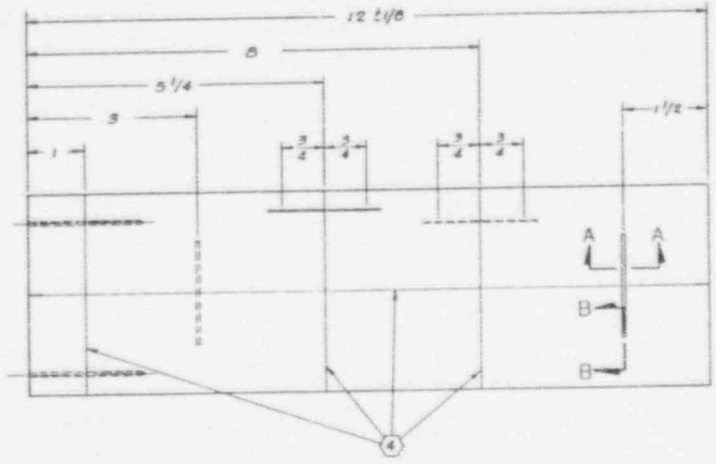
SOUTHWEST RESEARCH INSTITUTE

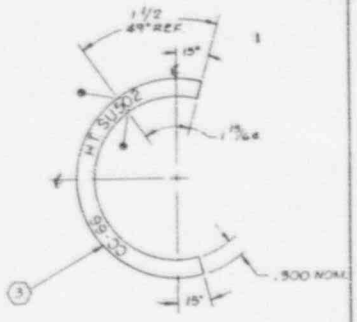
4" PIPE ULTRASONIC
CALIBRATION BLOCK

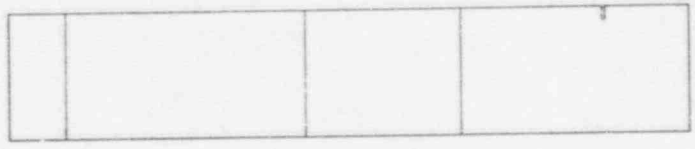
CALVERT CLIFFS

SCALE 1/1 C D-2929-602



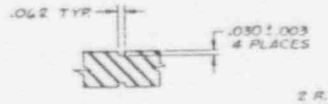






NOTES:

1. DEBURR AND BREAK SHARP EDGES.
2. MATERIAL FOR BLOCK TO BE ULTRASONICALLY EXAMINED IN ACCORDANCE WITH SWRI OPERATING PROCEDURE IX-PE-120-2 LASTEST REVISION.
3. STEEL STAMP ID NO. AND HEAT NO. AS SHOWN ON SURFACE INDICATED, IN CHARACTERS 3/16 MIN. HEIGHT.
4. SCRIBE CENTERLINES AS SHOWN .003 TO .005 WIDE AND DEEP WHERE NOTED. STEEL STAMP OR MILL CUT AN INDEX MARK AT ENDS OF EACH CENTERLINE AS SHOWN 1/32 x 1/32 x 1/4 LONG.
5. MAKE FROM 3" PIPE, SCHEDULE 80S, ASTM A376 GR.304 HEAT NO. SU502, SWRI LOG NO. 2522.
6. DESIGNED IN ACCORDANCE WITH REQUIREMENTS OF THE 1983/S83 ASME SECTION XI AND SWRI NDT PROCEDURES.



SECTION A-A
SCALE: 2/1

SECTION B-B
SCALE: 2/1

(3-80S-300-SS)-CC-66

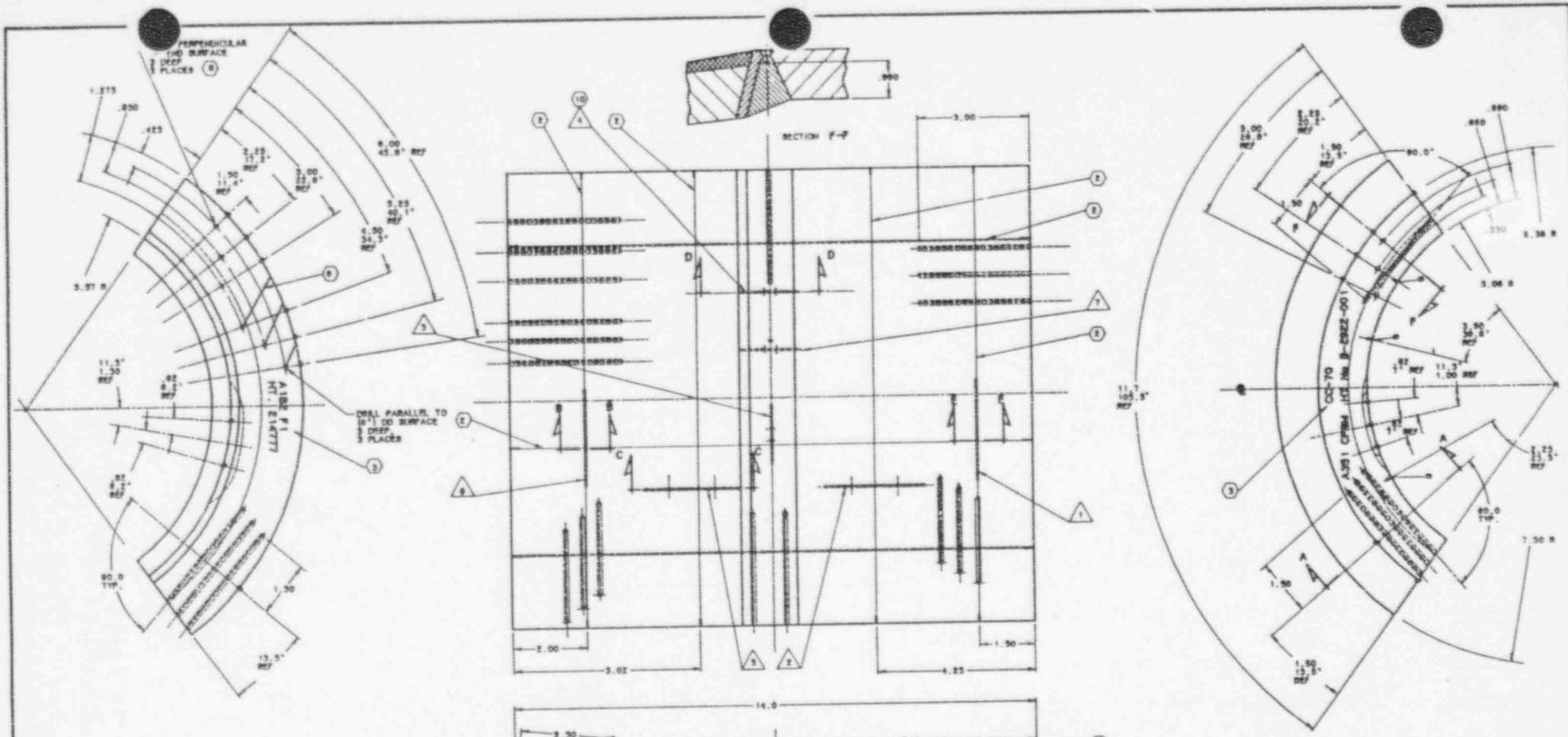
REVISIONS						
A	T150	2/2/90				

SOUTHWEST RESEARCH INSTITUTE
QUALITY ASSURANCE SYSTEMS AND ENGINEERING DIVISION
SAN ANTONIO, TEXAS

5" PIPE ULTRASONIC CALIBRATION BLOCK

CALVERT CLIFFS

SCALE 1/1 | C | D-2727-604 | A



NOTES

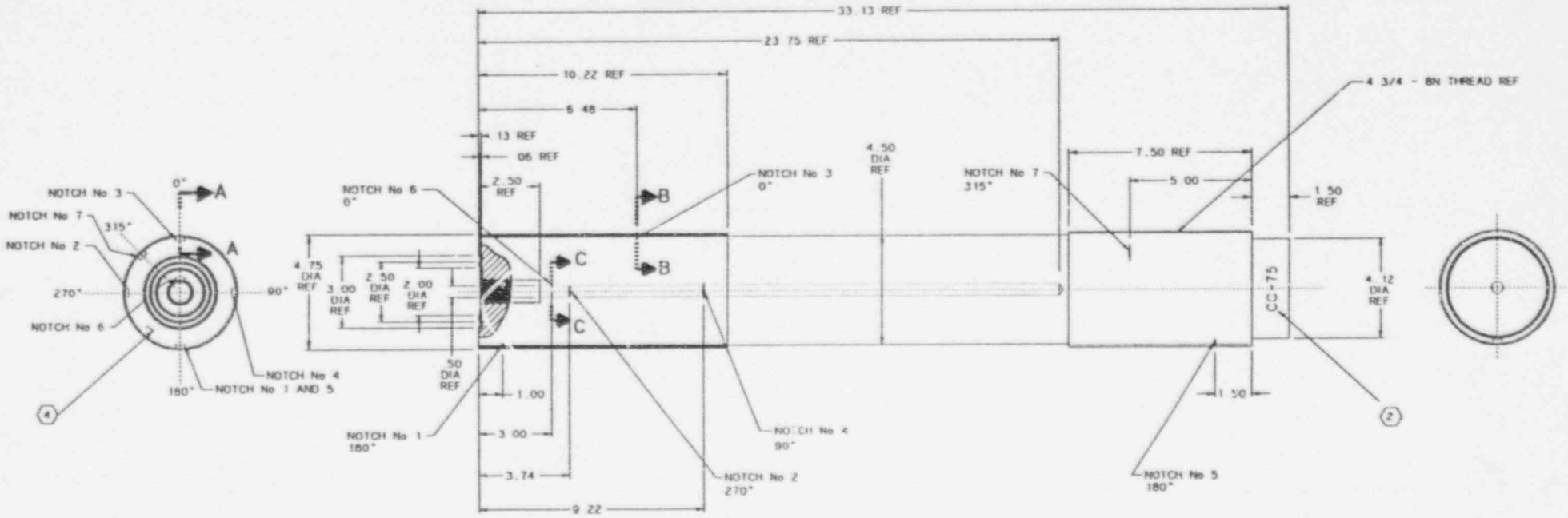
1. REMOVE BURRS AND BREAK SHARP EDGES.
2. SCRIBE LINE .003 TO .005 WIDE AND DEEP. STEEL STAMP OR MILL CUT AN INDEX MARK AT EACH END OF SCRIBE LINE AS SHOWN 1/32 X 1/32 X 1/4 LONG.
3. STEEL STAMP I.D. No. AND HEAT No. ON BLOCK AS SHOWN 3/16 MIN. HEIGHT CHARACTERS.
4. MATERIAL FOR BLOCK TO BE ULTRASONICALLY EXAMINED IN ACCORDANCE WITH SwRI OPERATING PROCEDURE UI-PE-102-2
5. STAINLESS STEEL CLAD OVERLAY IN ACCORDANCE WITH SwRI DOCUMENT 17-2743(2) AND POSTWELD HEAT TREAT PRIOR TO JOINING NOZZLE TO SAFE-END.
6. WELD IN ACCORDANCE WITH SwRI DOCUMENT 17-2743(2)
7. THE MOCKUP DESIGN INCORPORATES THE REQUIREMENTS OF
   (a) APPENDIX III, SUPPLEMENT 7 FOR CALIBRATION NOTCH SIZE, AND PVB-2500 OF SECTION XI, 1983 EDITION OF ASME BOILER AND PRESSURE VESSEL CODE FOR SIMULATED FLAW SIZE.
   (b) ARTICLE 5, SECTION V 1983 EDITION OF ASME BOILER AND PRESSURE VESSEL CODE FOR HOLE DIMENSIONS.
8. DO NOT USE HOLES FOR CALIBRATION
9. DIRECTION OF CALIBRATION
10. DO NOT USE NOTCH FOR CALIBRATION .

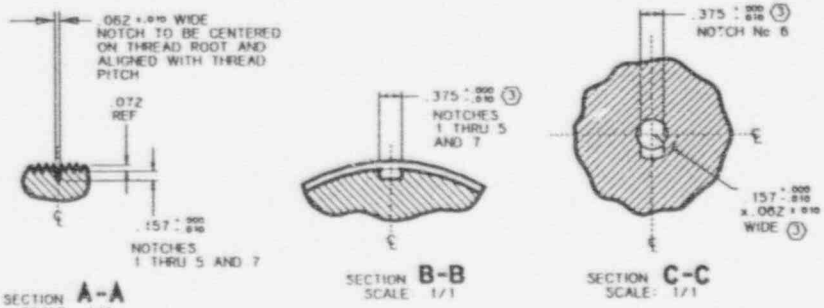
2	1	CHANGED D 8	A182 F1 (ALLOY No. 21477)
1	1	CHGT D 8	A351 CF8M (ALLOY No. B-5822-001)

SOUTHWEST RESEARCH INSTITUTE

NOZZLE TO SAFE-END MOCKUP

CC-70





NOTES:

1. MAKE FROM PUMP STUD SUPPLIED BY CALVERT CLIFFS.
2. STEEL STAMP ID NO. AS SHOWN, ON SURFACE INDICATED, IN CHARACTERS 3/16 MINIMUM HEIGHT.
3. NOTCHES TO BE CONSTANT DEPTH AND PARALLEL TO DIAMETER.
4. EXISTING INFORMATION STAMPED ON SURFACE INDICATED
   HT 91039 14 SN-0401
   ASME SA540GRB 23
   RS50851-22 246051

ID No CC-75

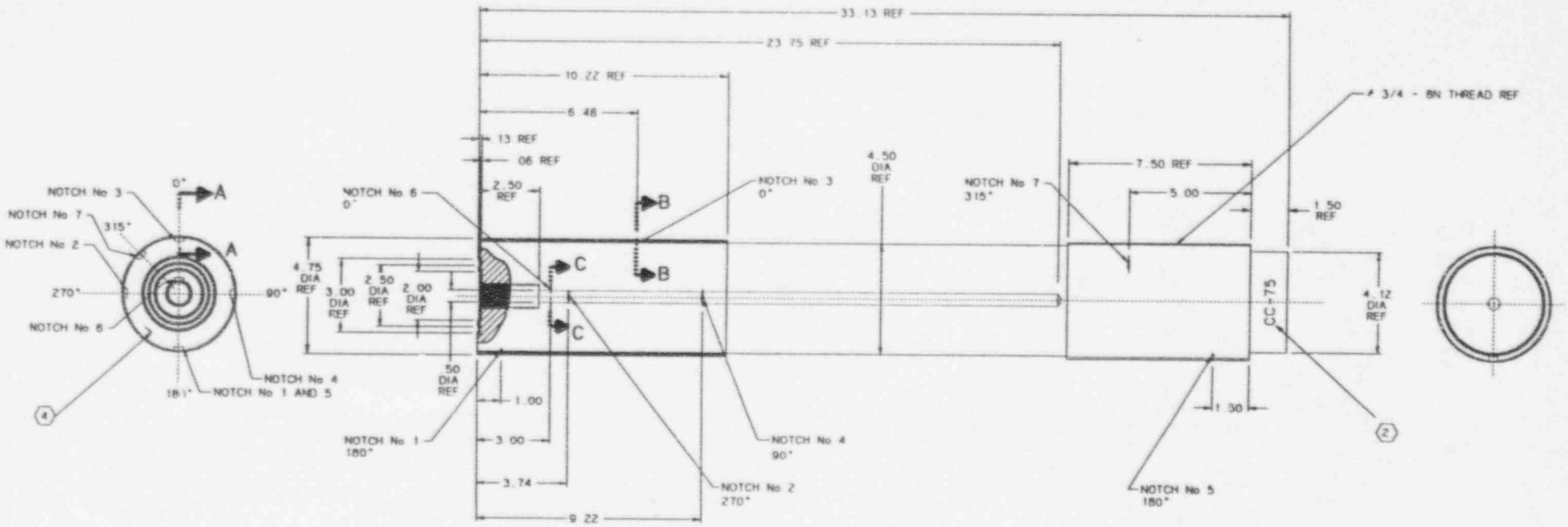
A	10001	2/16/95	RLE	2/16/95	2/16/95	M ITEMS

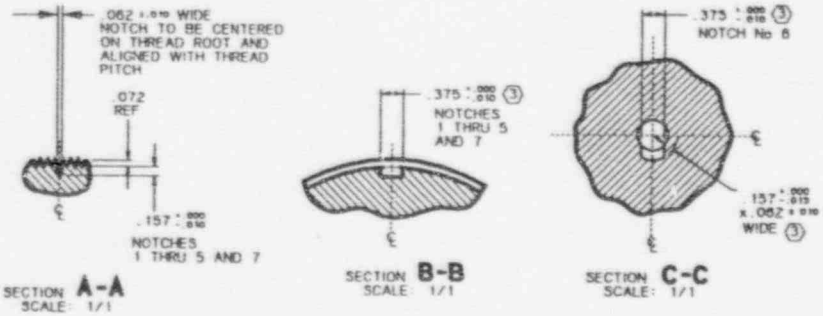
PARTS LIST

SOUTHWEST RESEARCH INSTITUTE
NONDESTRUCTIVE EVALUATION SCIENCE & TECHNOLOGY DIVISION
6220 CULEBRA SAN ANTONIO, TEXAS

PUMP STUD
UT CALIBRATION BLOCK

28401	C	D-2929-618	A	
SHEET 1/2		CAGE 18A	SHEET 1 OF 1	





NOTES:

1. MAKE FROM PUMP STUD SUPPLIED BY CALVERT CLIFFS.

(2) STEEL STAMP ID NO. AS SHOWN, ON SURFACE INDICATED, IN CHARACTERS 3/16 MINIMUM HEIGHT.

(3) NOTCHES TO BE CONSTANT DEPTH AND PARALLEL TO DIAMETER.

(4) EXISTING INFORMATION STAMPED ON SURFACE INDICATED
HT 91039 14 SN-0401
ASME SA540GRB 23
R550651-22 246051

ID No CC-75

REVISIONS							
A	10001	2/15/95	RLE	2/16/95	2/16/95	M. TEEMS	

PARTS LIST

SOUTHWEST RESEARCH INSTITUTE
NONDESTRUCTIVE EVALUATION SCIENCE & TECHNOLOGY DIVISION
SAN ANTONIO, TEXAS

PUMP STUD
UT CALIBRATION BLOCK

CAGE CODE 26401 | C | D-2929-618 | REV A

SCALE 1/2 | CAD FILE CAD618A | SHEET 1 OF 1