INSERVICE INSPECTION REPORT

PHILADELPHIA ELECTRIC COMPANY
2301 Market Street
Philadelphia, Pennsylvania 19101

Peach Bottom Station - Unit 3
R. D. No. 1
Delta, Pennsylvania 17314

Date: December 23, 1981

Inspection Date: March 6, 1981 to October 23, 1981

Commercial Service Date: December 23, 1974

Gross Generating Capability: 1098 MWe

Pennsylvania State Identification Number: ST 433411

National Board Number Assigned by Reactor Manufacturer: NB 3904

Component Identification: See Attachment 1 - Summary of Examinations

Abstract of Inspections Performed, Conditions Observed, Corrective Measures Recommended and Taken See:

Attachment 1 - Summary of Examinations,
Tables One, Two, Three, Four and Five and Six

Attachment 2 - Summary of Indications

Name of Inspector: Karl S. Russell, Jr.

Name and Mailing Address of the Inspector's Employer:

The Hartford Steam Boiler Inspection & Insurance Company
P. O. Box 504
Wayne, Pennsylvania 19087

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

Signed PECO Senior Engineer ISI Section John M. Madara, Jr. 1-6-82
Date

Signature of PECO Plant Engineer-Maintenance [signature] 1-7-82
Date

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Pennsylvania and employed by Hartford Steam Boiler Inspection & Insurance Company of Hartford, Conn. have inspected the components described in this Owners' Data Report during the period 3/6/81 to 10/23/81 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date: 1-8-82

Karl S. Russell Jr. Commissions NB 5168 Pa 1711
National Board, State, Province and No.

PORC Review & Approval W J Kelly 1/8/82
Date

ATTACHMENT 1

SUMMARY OF EXAMINATIONS

SUMMARY OF EXAMINATIONS

During the period from March 6, 1981 to October 23, 1981, an Inservice Inspection was performed at the Peach Bottom Atomic Power Station Unit No. 3. Examinations were performed by qualified personnel of Southwest Research Institute, General Electric Company, Universal Technical Testing Laboratories, Eastern Testing and Inspection, and Philadelphia Electric Company. The following is a summary of the examinations performed employing: PT - Dye Penetrant, MT - Magnetic Particle, RT - Radiographic, UT - Ultrasonic, and VT - Visual Examination techniques.

I. AREAS EXAMINED BY SOUTHWEST RESEARCH INSTITUTE:

A. Class I Reactor Pressure Vessel Welds and Components (Quantity)

Circumferential Weld (6)
Longitudinal Weld (15)
Meridional Weld (6)
Main Steam Nozzles (1)
Main Recirculation Nozzles (6)
Feedwater Nozzles (6)
Core Spray Nozzles (1)
Jet Pump Instrumentation Nozzles (2)
Flange Ligaments (32)
Stabilizer Bar Support (8)

B. Class I Reactor Pressure Vessel Closure Head (CH) Welds and Components (Quantity)

Circumferential Welds (1)
Meridional Welds (2)
Head to Nozzle Welds (1)
Nozzle to Flange Welds (1)
CH Studs (37)
CH Nuts (31)
CH Large Washers (31)
CH Small Washers (31)
Dryer Hold Down Brackets (1)

C. Class I Pipe Welds (Quantity)

Main Steam Loop C (1)
Main Recirculation Loop A (12)
Main Recirculation Loop B (6)
Control Rod Drive Hydraulic Return (1)
Feedwater Loop A (7)
Feedwater Loop B (4)
Residual Heat Removal - Head Spray (9)
Residual Heat Removal - Injection to Recirc. Loop A (1)
Residual Heat Removal - Injection to Recirc. Loop B (16)
Residual Heat Removal - Shutdown Cooling Supply (24)

C. Class I Pipe Welds (Quantity) - Continued

Reactor Water Cleanup (22 Baseline Examinations)
Core Spray Loop A (57 Baseline Examinations)*
Core Spray Loop B (54 Baseline Examinations)*
Jet Spray Instrumentation Loop A (1)

*NOTE: First 12 inches of all longitudinal welds were inspected using ultrasonic techniques. Credit was taken for ASME Section III shop radiography of the remaining longitudinal weld lengths in accordance with Paragraph IWB-2100(b).

D. Class II Pipe Welds and Components (Quantity)

Residual Heat Removal Head Spray (1)
Residual Heat Removal Discharge - Pump D (1)

II. AREAS EXAMINED BY GENERAL ELECTRIC COMPANY:

A. Reactor Pressure Vessel Internal Components (Quantity)

Guide Rods (2)
Feedwater Spargers (6 Baseline Examinations)
Core Spray Spargers and Piping (2)
Top Core Guide (All)
Surveillance Sample Holders (3)
Top of Shroud Area (All)
Cladding Patches (3)
Jet Pumps (20)
Shroud Annulus Region (100%)
Manhole Covers (2)

B. Reactor Pressure Vessel below Core Plate Components (Quantity)

Core Location 26-03 (Peripheral)
Core Location 30-31 (Mid-Plane)

III. AREAS EXAMINED BY UNIVERSAL TECHNICAL TESTING LABS, INC.:

A. Class I Pipe Welds (Quantity)

Main Recirculation Loop A (9)
Main Recirculation Loop B (6)

IV. AREAS EXAMINED BY PHILADELPHIA ELECTRIC COMPANY:

A. Class I Spring Hangers (Quantity)

Main Steam (3)
Main Recirculation (12)
Feedwater (9)
Residual Heat Removal (1)
Reactor Water Cleanup (3)
Reactor Core Isolation Cooling (7)
Core Spray Cooling (4)
High Pressure Coolant Injection (3)

B. Class I Valve Bodies (Quantity)

Residual Heat Removal (1)
Reactor Core Isolation Cooling (1)
High Pressure Coolant Injection (1)

C. Class I Pressure Retaining Bolting (Quantity)

a. Valves

Main Steam (6)
Main Recirculation (4)
Feedwater (1)
Residual Heat Removal (8)
Reactor Water Cleanup (3)
Reactor Core Isolation Cooling (2)
Core Spray Cooling (6)
High Pressure Coolant Injection (3)

b. Pumps

Main Recirculation (2)

c. Piping

Main Recirculation (2)
Reactor Pressure Vessel Head (2)

d. RPV Closure Head Bushings (6)

D. System Pressure Leakage Test (Quantity)

Class I Pressure Retaining Components (100%)

E. System Hydrostatic Pressure Test (Quantity)

Core Spray Loop A and B (Safe End to First Isolation Valve)
Main Recirculation Loop A and B Pump Discharge
Valve Bypass Cap and Flange Welds
Reactor Water Cleanup (Shutdown Cooling Supply to Second Isolation Valve)
CRD Scram Discharge Volume Piping (Modifications)

F. Class I Pipe Welds (Quantity)

Main Recirculation (6)
Feedwater (1)
Residual Heat Removal (4)
Core Spray (2)
Jet Spray Instrumentation (1)

V. AREAS EXAMINED BY EASTERN TESTING AND INSPECTION, INC.:
(Base Line Examinations)

A. Class I Pipe Welds (Quantity)

a. Scram Discharge Volume Piping

Circumferential Welds (28)

B. Pressure Vessel Welds and Components

a. Scram Discharge Volume Tank

Nozzle to Vessel (2)

VI. AREAS EXAMINED BY REACTOR CONTROLS, INC.:*

A. Class I Pipe Welds (Quantity)

a. Scram Discharge Volume Piping

Circumferential Welds (24)*

*NOTE: Credit was taken for ASME Section III construction radiography on welds 3-NSV-24 through 3-NSV-35 and 3-SSV-8 through 3-SSV-19 in accordance with Paragraph IWB-2100(b).

B. Pressure Vessel Welds and Components (Quantity)

a. Scram Discharge Volume Tank

Circumferential Welds (2)*

*NOTE: Credit was taken for ASME Section III construction radiography on welds 3-TSV-1 and 3-TSV-2 in accordance with Paragraph IWB-2100(b).

ATTACHMENT 2

Summary of Indications

SUMMARY OF INDICATIONS

As a result of the examinations performed by Southwest Research Institute, General Electric Company, Universal Technical Testing Laboratories, Eastern Testing and Inspection, and Philadelphia Electric Company during the March 6, 1981 to October 23, 1981 Inservice Inspection of Peach Bottom Atomic Power Station, Unit No. 3, the following indications were observed:

I. INDICATIONS OBSERVED BY SOUTHWEST RESEARCH INSTITUTE:

The manual UT examination of Class I and Class II components revealed numerous insignificant and geometric indications as well as reportable "lack of penetration" indications in five welds and one weld containing "linear" indications. The "lack of penetration" indications were found in core spray hanger lug welds number 14-A-38HL-1, 14-A-38HL-2, 14-A-38HL-3, 14-A-38HL-4, and 14-B-36HL-2. As the result of a baseline examination performed during the modification of this system, subsequent to a welded repair, the five welds received a satisfactory baseline examination. The "linear" indications were found in reactor water cleanup pump suction line weld number 12-0-12 and were confirmed using radiographic techniques. Subsequently, the system was modified eliminating this weld and a satisfactory baseline examination was performed.

II. INDICATIONS OBSERVED BY GENERAL ELECTRIC COMPANY:

No reportable indications were revealed.

III. INDICATIONS OBSERVED BY UNIVERSAL TECHNICAL TESTING LABORATORIES, INC.:

No reportable indications were revealed.

IV. INDICATIONS OBSERVED BY PHILADELPHIA ELECTRIC COMPANY:

Reportable liquid penetrant indications were observed on three Class I examination areas. The three areas - main recirculation weld number 2-BHA-5, core spray weld number 14-A-28, and jet pump instrumentation weld number J-PA-1 had indications that were linear in configuration. Subsequent to minor maintenance with a flapper wheel, all three areas were satisfactorily re-examined.

The examination of Class I components revealed reportable "linear" indications in two areas. The first area, main recirculation pump discharge pipe hanger number H-9-1, 2, had a "linear" indication in one support to structural steel attachment weld. Subsequent to a welded repair, a satisfactory re-examination was performed. This repair was performed per PECO Maintenance Procedure M2.16 and was not an ASME Section XI repair. The second area, residual heat removal valve number 10-81A, had numerous "linear" indications in the stellite overlay of the valve gate. Following a machine lapping repair of the gate, the valve was reassembled and a new gate was ordered for installation during a future refueling outage.

V. INDICATIONS OBSERVED BY EASTERN TESTING AND INSPECTIONS, INC.:
(BASELINE EXAMINATION)

No reportable indications were revealed.

TABLE ONE

DETAIL OF EXAMINATIONS PERFORMED BY

SOUTHWEST RESEARCH INSTITUTE

TABLE ONE

DETAIL OF EXAMINATIONS PERFORMED BY

SOUTHWEST RESEARCH INSTITUTE

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		REACTOR PRESSURE VESSEL WELDS AND COMPONENTS (See Appendix A, Figure A-1)	
		Circumferential Welds	
B1.2	B-B	RPV-C1 (5% of Weld Length)	UT
B1.1	B-A	RPV-C2 (5% of Weld Length)	UT
B1.2	B-B	RPV-C3 (5% of Weld Length)	UT
B1.2	B-B	RPV-C4 (5% of Weld Length	UT
B1.2	B-B	RPV-C5 (5% of Weld Length)	UT
B1.3	B-C	RPV-C6 (33 1/3% of Weld Length)	
		Longitudinal Welds	
B1.1	B-A	RPV-V1A (10% of Weld Length)	UT
B1.1	B-A	RPV-V1B (10% of Weld Length)	UT
B1.1	B-A	RPV-V1C (10% of Weld Length)	UT
B1.1	B-A	RPV-V2A (10% of Weld Length)	UT
B1.1	B-A	RPV-V2B (10% of Weld Length)	UT
B1.1	B-A	RPV-V2C (10% of Weld Length)	UT
B1.2	B-B	RPV-V3A (10% of Weld Length)	UT
B1.2	B-B	RPV-V3B (10% of Weld Length)	UT
B1.2	B-B	RPV-V3C (10% of Weld Length)	UT
B1.2	B-B	RPV-V4A (10% of Weld Length)	UT
B1.2	B-B	RPV-V4B (10% of Weld Length)	UT
B1.2	B-B	RPV-V4C (10% of Weld Length)	UT
B1.2	B-B	RPV-V5A (10% of Weld Length)	UT
B1.2	B-B	RPV-V5B (10% of Weld Length)	UT
B1.2	B-B	RPV-V5C (10% of Weld Length)	UT
		Meridional Welds	
B1.2	B-B	RPV-MA (10% of Weld Length)	UT
B1.2	B-B	RPV-MB (10% of Weld Length)	UT
B1.2	B-B	RPV-MC (10% of Weld Length)	UT
B1.2	B-B	RPV-MD (10% of Weld Length)	UT
B1.2	B-B	RPV-ME (10% of Weld Length)	UT
B1.2	B-B	RPV-MF (10% of Weld Length)	UT

TABLE ONE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		REACTOR PRESSURE VESSEL (Continued) (See Appendix A, Figure A-1)	
		Nozzle to Shell Welds	
B1.4	B-D	N3C	UT
B1.4	B-D	N4A	UT
B1.4	B-D	N4B	UT
B1.4	B-D	N4C	UT
B1.4	B-D	N4D	UT
B1.4	B-D	N4E	UT
B1.4	B-D	N4F	UT
B1.4	B-D	N5A	UT
B1.4	B-D	N1B	UT
B1.4	B-D	N2A	UT
B1.4	B-D	N2C	UT
B1.4	B-D	N2F	UT
B1.4	B-D	N2H	UT
B1.4	B-D	N2J	UT
B1.4	B-D	N8A	UT
B1.4	B-D	N8B	UT
		Nozzle Inside Radiused Section	
B1.4	B-D	N3C-IRS	UT
B1.4	B-D	N4A-IRS	UT
B1.4	B-D	N4B-IRS	UT
B1.4	B-D	N4C-IRS	UT
B1.4	B-D	N4D-IRS	UT
B1.4	B-D	N4E-IRS	UT
B1.4	B-D	N4F-IRS	UT
B1.4	B-D	N5A-IRS	UT
B1.4	B-D	N1B-IRS	UT
B1.4	B-D	N2A-IRS	UT
B1.4	B-D	N2C-IRS	UT
B1.4	B-D	N2F-IRS	UT
B1.4	B-D	N2H-IRS	UT
B1.4	B-D	N2J-IRS	UT
B1.4	B-D	N8A-IRS	UT
B1.4	B-D	N8B-IRS	UT
		Ligaments between Threaded Stud Holes	
B1.9	B-G-1	RPV Flange Ligaments (32 Ligaments Examined)	UT

TABLE ONE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		REACTOR PRESSURE VESSEL (Continued) (See Appendix A, Figure A-1)	
		Integrally-Welded Vessel Supports	
B1.2	B-H	Stabilizer Bar Support 1	UT
B1.2	B-H	Stabilizer Bar Support 2	UT
B1.2	B-H	Stabilizer Bar Support 3	UT
B1.2	B-H	Stabilizer Bar Support 4	UT
B1.2	B-H	Stabilizer Bar Support 5	UT
B1.2	B-H	Stabilizer Bar Support 6	UT
B1.2	B-H	Stabilizer Bar Support 7	UT
B1.2	B-H	Stabilizer Bar Support 8	UT
		REACTOR PRESSURE VESSEL CLOSURE HEAD (See Appendix A, Figure A-2)	
		Circumferential Welds	
B1.3	B-C	CH-C-2 (33 1/3% of Weld Length)	UT
		Meridional Welds	
B1.2	B-B	CH-MC (10% of Weld Length)	UT
B1.2	B-B	CH-MD (10% of Weld Length)	UT
		Nozzle Inside Radiused Section	
B1.4	B-D	CH-NA-IRS	UT
		Nozzle to Flange Welds	
B4.5	B-J	N-B-1	UT
		Bolting	
B1.8	B-G-1	CH Studs (6 Examined when Removed)	MT
B1.7	B-G-1	CH Studs (31 Examined in Place)	UT
B1.8	B-G-1	CH Nuts (31 Examined)	UT & MT
B1.10	B-G-1	CH Washers, Large (31 Examined)	VT
B1.10	B-G-1	CH Washers, Small (31 Examined)	VT
		Interior Attachments and Core Support Structures	
B1.16	B-N-2	DHDB-2 (Dryer Hold Down Bracket)	VT

TABLE ONE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS AND COMPONENTS	
		Main Steam Loop C (See Appendix A, Figures A-7 and A-8)	
B4.5	B-J	1-C-15 Pipe to Valve	UT
		Main Recirculation Loop A	
		28" Suction (See Appendix A, Figure A-11)	
B4.5	B-J	2-AS-6 Tee to Pipe	UT
B4.5	B-J	2-AS-6LD Longitudinal	UT
B4.5	B-J	2-AS-8LUI Longitudinal	UT
B4.5	B-J	2-AS-8LUO Longitudinal	UT
B4.5	B-J	2-AS-8 Elbow to Valve	UT
		4" Bypass (See Appendix A, Figure A-12)	
B4.5	B-J	2-BPA-1A Weldolet to Cap	UT
B4.5	B-J	2-BPA-10A Cap to Weldolet	UT
		22" Manifold (See Appendix A, Figure A-13)	
B4.5	B-J	2-AM-5LU Longitudinal	UT
		12" Header (See Appendix A, Figure A-14)	
B1.6	B-F	2-AHF-5 Safe End to Nozzle	UT
B1.6	B-F	2-AHH-5 Safe End to Nozzle	UT
B4.5	B-J	2-AHJ-4LU Longitudinal	UT
B1.6	B-F	2-AHJ-5 Safe End to Nozzle	UT
		Main Recirculation B	
		4" Bypass (See Appendix A, Figure A-16)	
B4.5	B-J	2-BPB-1A Weldolet to Cap	UT
B4.5	B-J	2-BPB-10A Cap to Weldolet	UT
		12" Header (See Appendix A, Figure A-18)	
B4.5	B-J	2-BHA-4LU Longitudinal	UT
B4.5	B-J	2-BHA-4 Pipe to Safe End	UT
B1.6	B-F	2-BHA-5 Safe End to Nozzle	UT
B1.6	B-F	2-BHC-5 Safe End to Nozzle	UT
		Control Rod Drive Hydraulic Return (In) (See Appendix A, Figure A-19)	
B1.6	B-F	3-I-19R Nozzle to Cap	UT

TABLE ONE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS AND COMPONENTS (Continued)	
		Feedwater Loop A	
		12" Riser (See Appendix A, Figure A-21)	
B4.5	B-J	6-AA-10 Transition Piece to Nozzle	UT
B4.5	B-J	6-AB-2 Pipe to Pipe	UT
B4.5	B-J	6-AB-6 Transition Piece to Nozzle	UT
B4.5	B-J	6-AC-8 Pipe to Transition Piece	UT
B4.5	B-J	6-AC-9 Transition Piece to Nozzle	UT
		12" Start-Up Riser (See Appendix A, Figure A-22)	
B4.5	B-J	6-ASU-1 Tee to Pipe	UT
B4.9	B-K-1	6-ASU-1HL 1 through 4 Hanger Lugs	UT
		Feedwater Loop B	
		12" Riser (See Appendix A, Figure A-24)	
B4.5	B-J	6-BD-9 Transition Piece to Nozzle	UT
B4.5	B-J	6-BE-6 Transition Piece to Nozzle	UT
B4.5	B-J	6-BF-8 Transition Piece to Nozzle	UT
		12" Start-Up Riser (See Appendix A, Figure A-25)	
B4.9	B-K-1	6-BSU-1HL 1 through 4 Hanger Lugs	UT
		Residual Heat Removal	
		Head Spray (See Appendix A, Figure A-26)	
B4.5	B-J	10-HS-19 Flange to Pipe	UT
B4.5	B-J	10-HS-20 Pipe to Elbow	UT
B4.5	B-J	10-HS-21 Elbow to Pipe	UT
B4.5	B-J	10-HS-22 Pipe to Elbow	UT
B4.5	B-J	10-HS-23 Elbow to Pipe	UT
B4.5	B-J	10-HS-24 Pipe to Elbow	UT
B4.5	B-J	10-HS-25 Elbow to Pipe	UT
B4.5	B-J	10-HS-26 Pipe to Elbow	UT
B4.5	B-J	10-HS-27 Elbow to Flange	UT
		Injection Loop A (See Appendix A, Figure A-27)	
B4.5	B-J	10-IA-8LUI Longitudinal	UT

TABLE ONE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS AND COMPONENTS (Continued)	
		Residual Heat Removal (Continued)	
		Injection Loop B (See Appendix A, Figure A-28)	
B4.5	B-J	10-IB-8LUI Longitudinal	UT
B4.5	B-J	10-IB-8LUO Longitudinal	UT
B4.5	B-J	10-IB-8 Elbow to Pipe	UT
B4.5	B-J	10-IB-8LD Longitudinal	UT
B4.5	B-J	10-IB-9LU Longitudinal	UT
B4.5	B-J	10-IB-9 Pipe to Elbow	UT
B4.5	B-J	10-IB-9LDI Longitudinal	UT
B4.5	B-J	10-IB-9LDO Longitudinal	UT
B4.5	B-J	10-IB-10LUI Longitudinal	UT
B4.5	B-J	10-IB-10LUO Longitudinal	UT
B4.5	B-J	10-IB-10 Elbow to Elbow	UT
B4.5	B-J	10-IB-10LDI Longitudinal	UT
B4.5	B-J	10-IB-10LDO Longitudinal	UT
B4.5	B-J	10-IB-11LUI Longitudinal	UT
B4.5	B-J	10-IB-11LUO Longitudinal	UT
B4.1	B-F	10-IB-11 Elbow to Pipe	UT
B4.1	B-F	10-IB-14 Pipe to Tee	UT
		RHR Shutdown Cooling Supply (See Appendix A, Figure A-29	
B4.5	B-J	10-0-1 Tee to Pipe	UT
B4.5	B-J	10-0-1LD Longitudinal	UT
B4.5	B-J	10-0-1ALU Longitudinal	UT
B4.5	B-J	10-0-1A Pipe to Pipe	UT
B4.5	B-J	10-0-1ALD Longitudinal	UT
B4.5	B-J	10-0-1BLU Longitudinal	UT
B4.5	B-J	10-0-1B Pipe to Pipe	UT
B4.5	B-J	10-0-1BLD Longitudinal	UT
B4.5	B-J	10-0-2LU Longitudinal	UT
B4.5	B-J	10-0-2 Pipe to Elbow	UT
B4.5	B-J	10-0-2LDI Longitudinal	UT
B4.5	B-J	10-0-2LDO Longitudinal	UT
B4.5	B-J	10-0-3LUI Longitudinal	UT
B4.5	B-J	10-0-3LUO Longitudinal	UT
B4.5	B-J	10-0-3 Elbow to Pipe	UT
B4.5	B-J	10-0-3LD Longitudinal	UT
B4.9	B-K-1	10-0-5PS 1 through 4 Pipe Supports	UT
B4.5	B-J	10-0-6LU Longitudinal	UT
B4.5	B-J	10-0-6 Pipe to Elbow	UT

TABLE ONE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS AND COMPONENTS (Continued)	
		RHR Shutdown Cooling Supply (Continued) (See Appendix A, Figure A-29)	
B4.5	B-J	10-0-6LDI Longitudinal	UT
B4.5	B-J	10-0-6LDO Longitudinal	UT
B4.5	B-J	10-0-7LUI Longitudinal	UT
B4.5	B-J	10-0-7LUO Longitudinal	UT
		RHR Out (See Appendix A, Figure A-29)	
B4.1	B-F	10-0-7 Elbow to Pipe	UT
		Reactor Water Cleanup Out (See Appendix A, Figure A-31)	
B4.5	B-J	12-0-17R Penetration to Pipe	UT
B4.5	B-J	12-0-18R Pipe to Valve	UT
B4.5	B-J	12-0-20 Branch Connection to Pipe	UT
B4.9	B-K-1	12-0-20HL 1 through 4 Hanger Lugs	UT
B4.5	B-J	12-0-21 Pipe to Valve	UT
B4.5	B-J	12-0-22 Valve to Pipe	UT
B4.5	B-J	12-0-23 Pipe to Valve	UT
B4.5	B-J	12-0-24 Valve to Pipe	UT
B4.5	B-J	12-0-25 Pipe to Elbow	UT
B4.5	B-J	12-0-26 Elbow to Pipe	UT
B4.5	B-J	12-0-27 Pipe to Elbow	UT
B4.5	B-J	12-0-28 Elbow to Pipe	UT
B4.5	B-J	12-0-29 Pipe to Elbow	UT
B4.5	B-J	12-0-30 Elbow to Elbow	UT
B4.5	B-J	12-0-31 Elbow to Pipe	UT
B4.5	B-J	12-0-32 Pipe to Elbow	UT
B4.5	B-J	12-0-33 Elbow to Pipe	UT
B4.5	B-J	12-0-34 Pipe to Elbow	UT
B4.5	B-J	12-0-35 Elbow to Pipe	UT
B4.9	B-K-1	12-0-35HL 1 through 4 Hanger Lugs	UT
B4.5	B-J	12-0-36 Pipe to Elbow	UT
B4.5	B-J	12-0-37 Elbow to Pipe	UT

TABLE ONE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS AND COMPONENTS (Continued)	
		Core Spray Loop A (See Appendix A, Figure A-33)	
B4.5	B-J	14-A-6 Valve to Pipe	UT
B4.1	B-F	14-A-28 Pipe to Pipe	UT
B4.5	B-J	14-A-28LD Longitudinal	UT
B4.5	B-J	14-A-29LU Longitudinal	UT
B4.5	B-J	14-A-29 Pipe to Pipe	UT
B4.5	B-J	14-A-29LD Longitudinal	UT
B4.5	B-J	14-A-30LU Longitudinal	UT
B4.5	B-J	14-A-30 Pipe to Elbow	UT
B4.5	B-J	14-A-30LDI Longitudinal	UT
B4.5	B-J	14-A-30LDO Longitudinal	UT
B4.5	B-J	14-A-31LUI Longitudinal	UT
B4.5	B-J	14-A-31LUO Longitudinal	UT
B4.5	B-J	14-A-31 Elbow to Pipe	UT
B4.5	B-J	14-A-31LD Longitudinal	UT
B4.5	B-J	14-A-32LU Longitudinal	UT
B4.5	B-J	14-A-32 Pipe to Elbow	UT
B4.5	B-J	14-A-32LDI Longitudinal	UT
B4.5	B-J	14-A-32LDO Longitudinal	UT
B4.5	B-J	14-A-33LUI Longitudinal	UT
B4.5	B-J	14-A-33LUO Longitudinal	UT
B4.5	B-J	14-A-33 Elbow to Pipe	UT
B4.5	B-J	14-A-33LD Longitudinal	UT
B4.5	B-J	14-A-34LU Longitudinal	UT
B4.5	B-J	14-A-34 Pipe to Pipe	UT
B4.5	B-J	14-A-34LD Longitudinal	UT
B4.9	B-K-1	14-A-34PS Pipe Support	UT
B4.5	B-J	14-A-35LU Longitudinal	UT
B4.5	B-J	14-A-35 Pipe to Pipe	UT
B4.5	B-J	14-A-35LD Longitudinal	UT
B4.5	B-J	14-A-36LU Longitudinal	UT
B4.5	B-J	14-A-36 Pipe to Elbow	UT
B4.5	B-J	14-A-36LDI Longitudinal	UT
B4.5	B-J	14-A-36LDO Longitudinal	UT
B4.5	B-J	14-A-37LUI Longitudinal	UT
B4.5	B-J	14-A-37LUO Longitudinal	UT
B4.5	B-J	14-A-37 Elbow to Pipe	UT
B4.5	B-J	14-A-37LD Longitudinal	UT
B4.5	B-J	14-A-38LU Longitudinal	UT
B4.5	B-J	14-A-38 Pipe to Pipe	UT
B4.5	B-J	14-A-38LD Longitudinal	UT
B4.9	B-K-1	14-A-38HL 1 through 4 Hanger Lugs	UT

TABLE ONE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS AND COMPONENTS (Continued)	
		Core Spray Loop A (Continued) (See Appendix A, Figure A-33)	
B4.5	B-J	14-A-39LU Longitudinal	UT
B4.5	B-J	14-A-39 Pipe to Reducer	UT
B4.5	B-J	14-A-39LD Longitudinal	UT
B4.5	B-J	14-A-40LU Longitudinal	UT
B4.5	B-J	14-A-40 Reducer to Pipe	UT
B4.5	B-J	14-A-40LD Longitudinal	UT
B4.5	B-J	14-A-41LU Longitudinal	UT
B4.5	B-J	14-A-41 Pipe to Elbow	UT
B4.5	B-J	14-A-41LDI	UT
B4.5	B-J	14-A-41LDO Longitudinal	UT
B4.5	B-J	14-A-42LUI Longitudinal	UT
B4.5	B-J	14-A-42LUO Longitudinal	UT
B4.5	B-J	14-A-42 Elbow to Pipe	UT
B4.5	B-J	14-A-42LD Longitudinal	UT
B4.5	B-J	14-A-43LU Longitudinal	UT
B4.5	B-J	14-A-43 Pipe to Safe End	UT
		Core Spray Loop B (See Appendix A, Figure A-34)	
B4.5	B-J	14-B-10 Elbow to Pipe	UT
B4.5	B-J	14-B-28 Pipe to Pipe	UT
B4.5	B-J	14-B-28LD Longitudinal	UT
B4.5	B-J	14-B-29LU Longitudinal	UT
B4.5	B-J	14-B-29 Pipe to Pipe	UT
B4.5	B-J	14-B-29LD Longitudinal	UT
B4.5	B-J	14-B-30LU Longitudinal	UT
B4.5	B-J	14-B-30 Pipe to Elbow	UT
B4.5	B-J	14-B-30LDI Longitudinal	UT
B4.5	B-J	14-B-30LDO Longitudinal	UT
B4.5	B-J	14-B-31LUI Lingitudinal	UT
B4.5	B-J	14-B-31LUO Longitudinal	UT
B4.5	B-J	14-B-31 Elbow to Pipe	UT
B4.5	B-J	14-B-31LD Longitudinal	UT
B4.5	B-J	14-B-32LU Longitudinal	UT
B4.5	B-J	14-B-32 Pipe to Elbow	UT
B4.5	B-J	14-B-32LDI Longitudinal	UT
B4.5	B-J	14-B-32LDO Longitudinal	UT
B4.5	B-J	14-B-33LUI Longitudinal	UT
B4.5	B-J	14-B-33LUO Longitudinal	UT
B4.5	B-J	14-B-33 Elbow to Pipe	UT
B4.5	B-J	14-B-33LD Longitudinal	UT

TABLE ONE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS AND COMPONENTS (Continued)	
		Core Spray Loop B (Continued) (See Appendix A, Figure A-34)	
B4.9	B-K-1	14-B-33PS Pipe Support	UT
B4.5	B-J	14-B-34LU Longitudinal	UT
B4.5	B-J	14-B-34 Pipe to Pipe	UT
B4.5	B-J	14-B-34LD Longitudinal	UT
B4.5	B-J	14-B-35LU Longitudinal	UT
B4.5	B-J	14-B-35 Pipe to Elbow	UT
B4.5	B-J	14-B-35LDI Longitudinal	UT
B4.5	B-J	14-B-35LDO Longitudinal	UT
B4.5	B-J	14-B-36LUI Longitudinal	UT
B4.5	B-J	14-B-36LUO Longitudinal	UT
B4.5	B-J	14-B-36 Elbow to Pipe	UT
B4.5	B-J	14-B-36LD Longitudinal	UT
B4.5	B-J	14-B-36HL 1 through 4 Hanger Lugs	UT
B4.5	B-J	14-B-37LU Longitudinal	UT
B4.5	B-J	14-B-37 Pipe to Pipe	UT
B4.5	B-J	14-B-37LD Longitudinal	UT
B4.5	B-J	14-B-38LU Longitudinal	UT
B4.5	B-J	14-B-38 Pipe to Reducer	UT
B4.5	B-J	14-B-38LD Longitudinal	UT
B4.5	B-J	14-B-39LU Longitudinal	UT
B4.5	B-J	14-B-39 Reducer to Pipe	UT
B4.5	B-J	14-B-39LD Longitudinal	UT
B4.5	B-J	14-B-40LU Longitudinal	UT
B4.5	B-J	14-B-40 Pipe to Elbow	UT
B4.5	B-J	14-B-40LDI Longitudinal	UT
B4.5	B-J	14-B-40LDO Longitudinal	UT
B4.5	B-J	14-B-41LUI Longitudinal	UT
B4.5	B-J	14-B-41LUO Longitudinal	UT
B4.5	B-J	14-B-41 Elbow to Pipe	UT
B4.5	B-J	14-B-41LD Longitudinal	UT
B4.5	B-J	14-B-42LU Longitudinal	UT
B4.5	B-J	14-B-42 Pipe to Safe End	UT
		Jet Spray Instrumentation - Loop A (See Appendix A, Figure A-37)	
B4.1	B-F	JP-A-1 Nozzle to Safe End	UT

TABLE ONE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS II PIPE WELDS	
		RHR Head Spray (See Appendix B, Figure B-2)	
C2.1	C-F(A)	10-2HS6-14 Reducer to Pipe	UT
		RHR Discharge - Pump D (See Appendix B, Figure B-19)	
C2.1	C-F(A)	10-2DD20-10 Pipe to Elbow	UT

TABLE TWO

DETAIL OF EXAMINATIONS PERFORMED BY

THE GENERAL ELECTRIC COMPANY

TABLE TWO

DETAIL OF EXAMINATIONS PERFORMED BY

THE GENERAL ELECTRIC COMPANY

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		REACTOR PRESSURE VESSEL (RPV) INTERNAL COMPONENTS (See Appendix C, Figures C-1 through C-6)	
B1.15	B-N-1	0° and 180° Guide Rods	VT
B1.15	B-N-1	120° and 240° Core Spray Spargers and Core Spray Piping	VT
B1.15	B-N-1	Top Core Guide	VT
B1.15	B-N-1	30°, 120° and 300° Surveillance Sample Holders	VT
B1.15	B-N-1	Top of Shroud Area	VT
B1.15	B-N-1	Three Cladding Patches	VT
B1.15	B-N-1	Six Feedwater Spargers	VT
		JET PUMPS 1 through 20 (See Appendix C, Figures C-7 through C-9)	
B1.15	B-N-1	Hold Down Beam	VT
B1.15	B-N-1	Riser Brace Arm Welds	VT
B1.15	B-N-1	Restrainer Stops	VT
B1.15	B-N-1	Restrainer Wedge Engagement	VT
B1.15	B-N-1	Entire Jet Pump Assembly and Instrumentation Lines	VT
B1.15	B-N-1	Accessible Shroud Annulus Region and Two Manhole Covers	VT
		SPACE BELOW THE CORE PLATE (See Appendix C, Figures C-10 through C-13)	
B1.15	B-N-1	Differential Pressure and Standby Liquid Control Line	VT
B1.15	B-N-1	Shroud Weld	VT
B1.15	B-N-1	Control Rod Drive Housing and Stub Tube	VT
B1.15	B-N-1	In-Core Housing and Guide	VT
B1.15	B-N-1	Bottom Head Drain	VT

TABLE THREE

DETAIL OF EXAMINATIONS PERFORMED BY

UNIVERSAL TECHNICAL TESTING LABS, INC.

TABLE THREE

DETAIL OF EXAMINATIONS PERFORMED BY

UNIVERSAL TECHNICAL TESTING LABS, INC.

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS	
		Main Recirculation Loop A (See Appendix A, Figure A-14)	
B4.5	B-J	2-AHH-1 Reducer to Pipe	RT
B4.5	B-J	2-AHH-1LD Longitudinal	RT
B4.5	B-J	2-AHH-3LU Longitudinal	RT
B4.5	B-J	2-AHH-3 Elbow to Pipe	RT
B4.5	B-J	2-AHJ-1 Branch Connection to Pipe	RT
B4.5	B-J	2-AHJ-1LD Longitudinal	RT
B4.5	B-J	2-AHJ-2LU Longitudinal	RT
B4.5	B-J	2-AHJ-2 Pipe to Elbow	RT
B4.5	B-J	2-AHJ-2LD Longitudinal	RT
		Main Recirculation Loop B (See Appendix A, Figure A-18)	
B4.5	B-J	2-BHA-2LU Longitudinal	RT
B4.5	B-J	2-BHA-2 Pipe to Elbow	RT
B4.5	B-J	2-BHA-3 Elbow to Pipe	RT
B4.5	B-J	2-BHA-3LD Longitudinal	RT
B4.5	B-J	2-BHE-3LU Longitudinal	RT
B4.5	B-J	2-BHE-3 Elbow to Pipe	RT

TABLE FOUR

DETAIL OF EXAMINATIONS PERFORMED BY

PHILADELPHIA ELECTRIC COMPANY

TABLE FOUR

DETAIL OF EXAMINATIONS PERFORMED BY

PHILADELPHIA ELECTRIC COMPANY

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		SUPPORT COMPONENTS	
		Main Steam Loop A	
B4.10	B-K-2	HA-2-1, 2	VT
		Main Steam Loop C	
B4.10	B-K-2	HC-1-1, 2	VT
		Main Steam Loop D	
B4.10	B-K-2	HD-4-1, 2	VT
		Main Recirculation Loop A	
B4.10	B-K-2	H-1-1, 2	VT
B4.10	B-K-2	H-5-1, 2	VT
B4.10	B-K-2	H-6-1, 2	VT
B4.10	B-K-2	H-9-1, 2	VT
B4.10	B-K-2	H-13-2	VT
		Main Recirculation Loop B	
B4.10	B-K-2	H-1-1, 2	VT
B4.10	B-K-2	H-6-1, 2	VT
B4.10	B-K-2	H-9-1, 2	VT
B4.10	B-K-2	H-13-1	VT
B4.10	B-K-2	H-15	VT
B4.10	B-K-2	H-16-1, 2	VT
B4.10	B-K-2	B-17	VT
		Feedwater Loop A	
B4.10	B-K-2	H-24-1, 2	VT
B4.10	B-K-2	H-25-1, 2	VT
B4.10	B-K-2	H-30	VT
B4.10	B-K-2	H-44-1, 2	VT
B4.10	B-K-2	H-57-1, 2	VT
B4.10	B-K-2	H-61	VT

TABLE FOUR

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		SUPPORT COMPONENTS - Continued	
		Feedwater Loop B	
B4.10	B-K-2	H-43-1, 2	VT
B4.10	B-K-2	H-58-1, 2	VT
B4.10	B-K-2	H-62	VT
		Residual Heat Removal	
B4.10	B-K-2	H-150	VT
		Reactor Water Cleanup	
B4.10	B-K-2	H-149-1, 2	VT
B4.10	B-K-2	H-150 (167)	VT
B4.10	B-K-2	H-152	VT
		Reactor Core Isolation Cooling	
B4.10	B-K-2	H-193 (H-79)	VT
B4.10	B-K-2	H-64-1, 2	VT
B4.10	B-K-2	H-65-1, 2	VT
B4.10	B-K-2	H-66-1, 2	VT
B4.10	B-K-2	H-67	VT
B4.10	B-K-2	H-68	VT
B4.10	B-K-2	H-74	VT
		Core Spray Loop A	
B4.10	B-K-2	H-76	VT
B4.10	B-K-2	H-78	VT
		Core Spray Loop B	
B4.10	B-K-2	H-75	VT
B4.10	B-K-2	H-77	VT
		High Pressure Coolant Injection	
B4.10	B-K-2	H-51	VT
B4.10	B-K-2	H-52	VT
B4.10	B-K-2	H-53	VT

TABLE FOUR
(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I VALVE BODIES	
		Residual Heat Removal	
B6.7	B-M-2	10-81A	VT
		Reactor Core Isolation Cooling	
B6.7	B-M-2	AO-13-22	VT
		High Pressure Coolant Injection	
B6.7	B-M-2	MO-23-19	VT
		CLASS I PRESSURE RETAINING BOLTING	
		Valves	
		Main Steam	
B6.3	B-G-1	71A, B, C, K	VT
B6.3	B-G-1	70A, B	VT
		Main Recirculation	
B6.3	B-G-1	MO-2-43A & B	VT
B6.3	B-G-1	MO-2-53A & B	VT
		Feedwater	
B6.3	B-G-1	MO-6-38B	VT
		Residual Heat Removal	
B6.3	B-G-1	MO-10-17	VT
B6.3	B-G-1	MO-10-18	VT
B6.3	B-G-1	MO-10-25A & B	VT
B6.3	B-G-1	10-88	VT
B6.3	B-G-1	10-81A & B	VT
B6.3	B-G-1	MO-10-33	VT
		Reactor Water Cleanup	
B6.3	B-G-1	MO-12-18	VT
B6.3	B-G-1	MO-12-15	VT
B6.3	B-G-1	MO-12-46	VT

TABLE FOUR

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PRESSURE RETAINING BOLTING (Continued)	
		Valves - Continued	
		Reactor Core Isolation Cooling	
B6.3	B-G-1	MO-13-21	VT
B6.3	B-G-1	AO-13-22	VT
		Core Spray Cooling	
B6.3	B-G-1	MO-14-12A & B	VT
B6.3	B-G-1	AO-14-13A & B	VT
B6.3	B-G-1	14-14A & B	VT
		High Pressure Coolant Injection	
B6.3	B-G-1	MO-23-15	VT
B6.3	B-G-1	MO-23-16	VT
B6.3	B-G-1	MO-23-19	VT
		Pumps	
		Main Recirculation Loops A and B	
B5.3	B-G-1	Pump Case to Cover Bolts and Nuts	VT
		Piping	
		Main Recirculation Loops A and B	
B4.12	B-G-2	2-BPA-1/FB	VT
B4.12	B-G-2	2-BPB-1/FB	VT
		Reactor Pressure Vessel Head	
B1.11	B-G-2	N-B-1/FB	VT
B1.11	B-G-2	N-A-1/FB	VT
		RPV Bushings	
		Closure Head	
B1.10	B-G-1	Serial Nos. 67 through 72	VT

TABLE FOUR

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		SYSTEM PRESSURE LEAKAGE TEST	
		Class I Pressure Retaining Components	
IWB-5210		100%	VT
		SYSTEM HYDROSTATIC PRESSURE TEST	
		Core Spray Loops A and B	
IWA-4240		Safe End Weld at RPV Nozzle to Dissimilar Metal Weld at First Isolation Valve	VT
		Main Recirculation Loops A and B Pump	
IWA-4240		Discharge 4" Diameter Bypass Cap and Flange Welds	VT
IWA-4240		Reactor Water Cleanup (Pump Supply Line) from 10DCN-20" (Shutdown Cooling Supply) to Second Isolation Valve	VT
IWA-4240		CRD Scram Discharge Volume Piping Weld Nos. 3-SSV-1 to 3-SSV-7 and 3-NSV-1 to 3-NSV-23	VT
		CLASS I PIPE WELDS	
		Main Recirculation Loops A and B	
B1.6	B-F	2-AHF-5	PT
B1.6	B-F	2-AHH-5	PT
B1.6	B-F	2-AHJ-5	PT
B1.6	B-F	2-BHA-5	PT
B1.6	B-F	2-BHC-5	PT
B4.7	B-J	2-AD-15/BPA	PT
		Feedwater System	
B4.7	B-J	6-B-3/13-1	PT

TABLE FOUR

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS (Continued)	
		Residual Heat Removal System	
B4.7	B-J	10-0-1/12-0	PT
B4.1	B-F	10-0-7	PT
B4.1	B-F	10-IB-11	PT
B4.1	B-F	10-IB-14	PT
		Core Spray Loops A and B	
B4.1	B-F	14-A-28	PT
B4.1	B-F	14-B-28	PT
		Jet Spray Instrumentation Loop A	
B4.1	B-F	J-PA-1	PT

TABLE FIVE

DETAIL OF EXAMINATIONS PERFORMED BY

EASTERN TESTING AND INSPECTION, INC.

TABLE FIVE

DETAIL OF EXAMINATIONS PERFORMED BY

EASTERN TESTING AND INSPECTION, INC.

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS AND COMPONENTS	
		North Scram Discharge Volume Piping	
		Circumferential Welds	
B4.5	B-J	3-NSV-2	RT
B4.5	B-J	3-NSV-3	RT
B4.5	B-J	3-NSV-4	RT
B4.5	B-J	3-NSV-5	RT
B4.5	B-J	3-NSV-6	RT
B4.5	B-J	3-NSV-7	RT
B4.5	B-J	3-NSV-8	RT
B4.5	B-J	3-NSV-9	RT
B4.5	B-J	3-NSV-10	RT
B4.5	B-J	3-NSV-11	RT
B4.5	B-J	3-NSV-12	RT
B4.5	B-J	3-NSV-13	RT
B4.5	B-J	3-NSV-14	RT
B4.5	B-J	3-NSV-15	RT
B4.5	B-J	3-NSV-16	RT
B4.5	B-J	3-NSV-17	RT
B4.5	B-J	3-NSV-18	RT
B4.5	B-J	3-NSV-19	RT
B4.5	B-J	3-NSV-20	RT
B4.5	B-J	3-NSV-21	RT
B4.5	B-J	3-NSV-22	RT
B4.5	B-J	3-NSV-23	RT
		South Scram Discharge Volume Piping	
		Circumferential Welds	
B4.5	B-J	3-SSV-2	RT
B4.5	B-J	3-SSV-3	RT
B4.5	B-J	3-SSV-4	RT
B4.5	B-J	3-SSV-5	RT
B4.5	B-J	3-SSV-6	RT
B4.5	B-J	3-SSV-7	RT

TABLE FIVE

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		PRESSURE VESSEL WELDS AND COMPONENTS	
		Scram Discharge Volume Tank	
		Nozzle to Vessel Welds	
B1.4	B-D	3-NSV-1	RT
B1.4	B-D	3-SSV-1	RT

TABLE SIX

DETAIL OF EXAMINATIONS PERFORMED BY

REACTOR CONTROLS, INC.

(DURING PLANT CONSTRUCTION)

TABLE SIX

DETAIL OF EXAMINATIONS PERFORMED BY

REACTOR CONTROLS, INC.

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		CLASS I PIPE WELDS AND COMPONENTS	
		North Scram Discharge Volume Piping	
		Circumferential Welds	
B4.5	B-J	3-NSV-24	RT
B4.5	B-J	3-NSV-25	RT
B4.5	B-J	3-NSV-26	RT
B4.5	B-J	3-NSV-27	RT
B4.5	B-J	3-NSV-28	RT
B4.5	B-J	3-NSV-29	RT
B4.5	B-J	3-NSV-30	RT
B4.5	B-J	3-NSV-31	RT
B4.5	B-J	3-NSV-32	RT
B4.5	B-J	3-NSV-33	RT
B4.5	B-J	3-NSV-34	RT
B4.5	B-J	3-NSV-35	RT
		South Scram Discharge Volume Piping	
		Circumferential Welds	
B4.5	B-J	3-SSV-8	RT
B4.5	B-J	3-SSV-9	RT
B4.5	B-J	3-SSV-10	RT
B4.5	B-J	3-SSV-11	RT
B4.5	B-J	3-SSV-12	RT
B4.5	B-J	3-SSV-13	RT
B4.5	B-J	3-SSV-14	RT
B4.5	B-J	3-SSV-15	RT
B4.5	B-J	3-SSV-16	RT
B4.5	B-J	3-SSV-17	RT
B4.5	B-J	3-SSV-18	RT
B4.5	B-J	3-SSV-19	RT

TABLE SIX

(Continued)

ASME SECTION XI ITEM NO.	ASME SECTION XI CATEGORY	EXAMINATION AREA IDENTIFICATION	EXAMINATION METHOD
		PRESSURE VESSEL WELDS AND COMPONENTS	
		Scram Discharge Volume Tank	
		Circumferential Welds	
B4.5	B-J	3-TSV-1	RT
B4.5	B-J	3-TSV-2	PT

APPENDIX A

CLASS 1 WELD IDENTIFICATION FIGURES

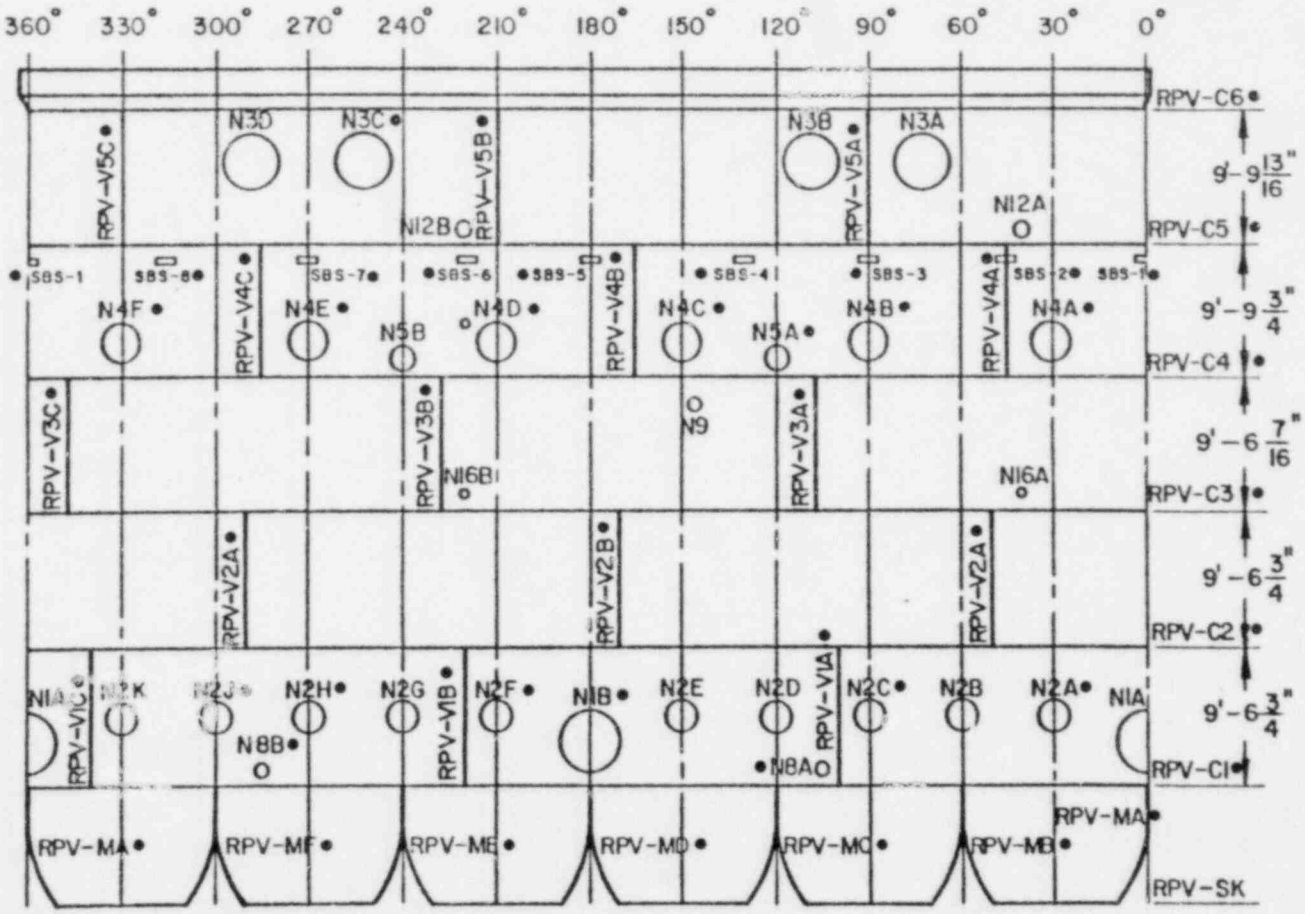
APPENDIX A

CLASS I WELD IDENTIFICATION FIGURES

Table of Contents

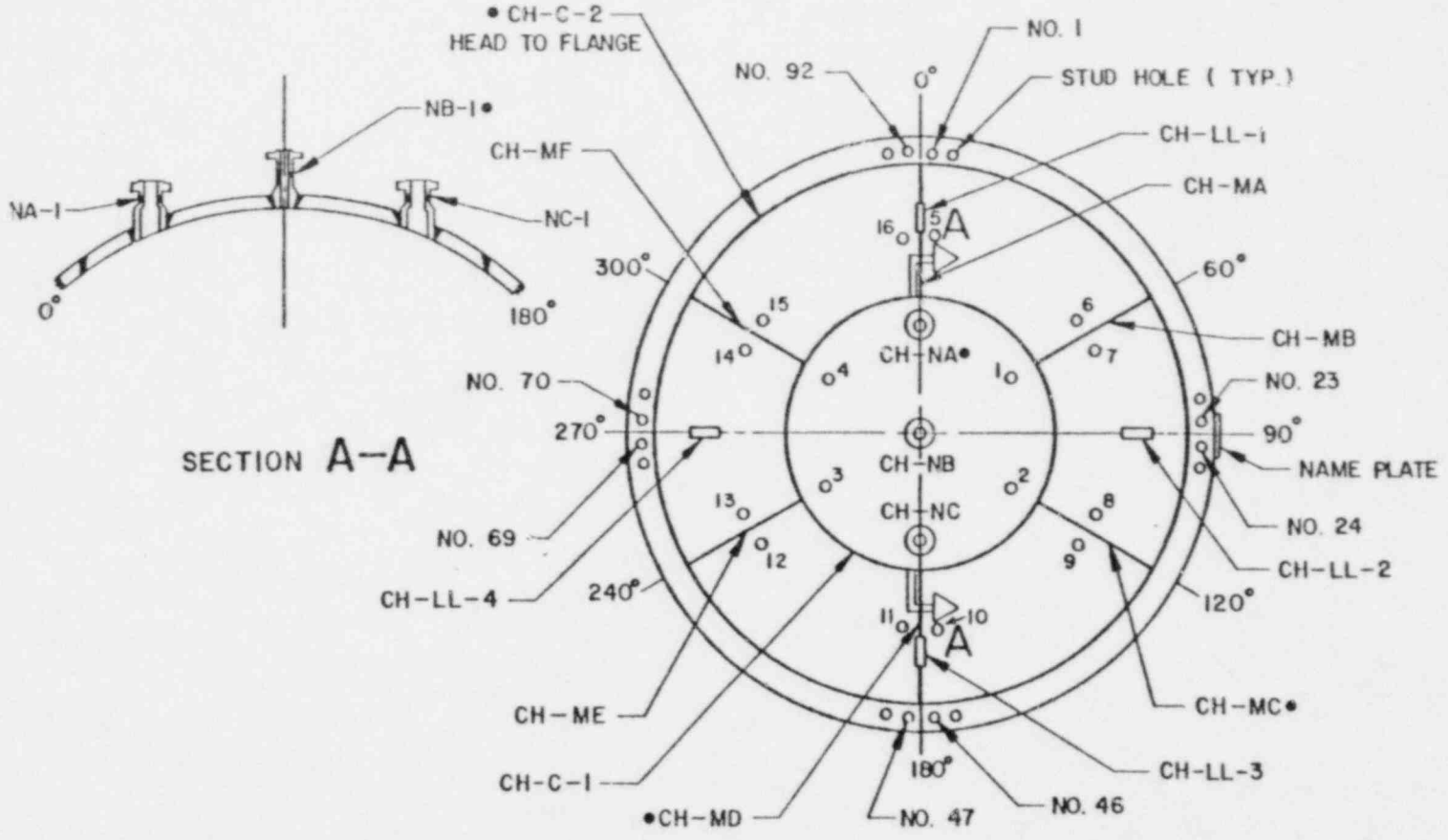
Legend of Symbols

	PS	Pipe Support
	RL	Restraint Lugs
	HL	Hanger Lugs
		Direction of Flow
	BC	Branch Connections 4" or Smaller
		Branch Connections Larger Than 4"
		General Information
		Weld Identification
		Containment Penetration
		Welds Examined



PEACH BOTTOM 3 REACTOR PRESSURE VESSEL

FIGURE A-1



PEACH BOTTOM 3 CLOSURE HEAD

FIGURE A-2

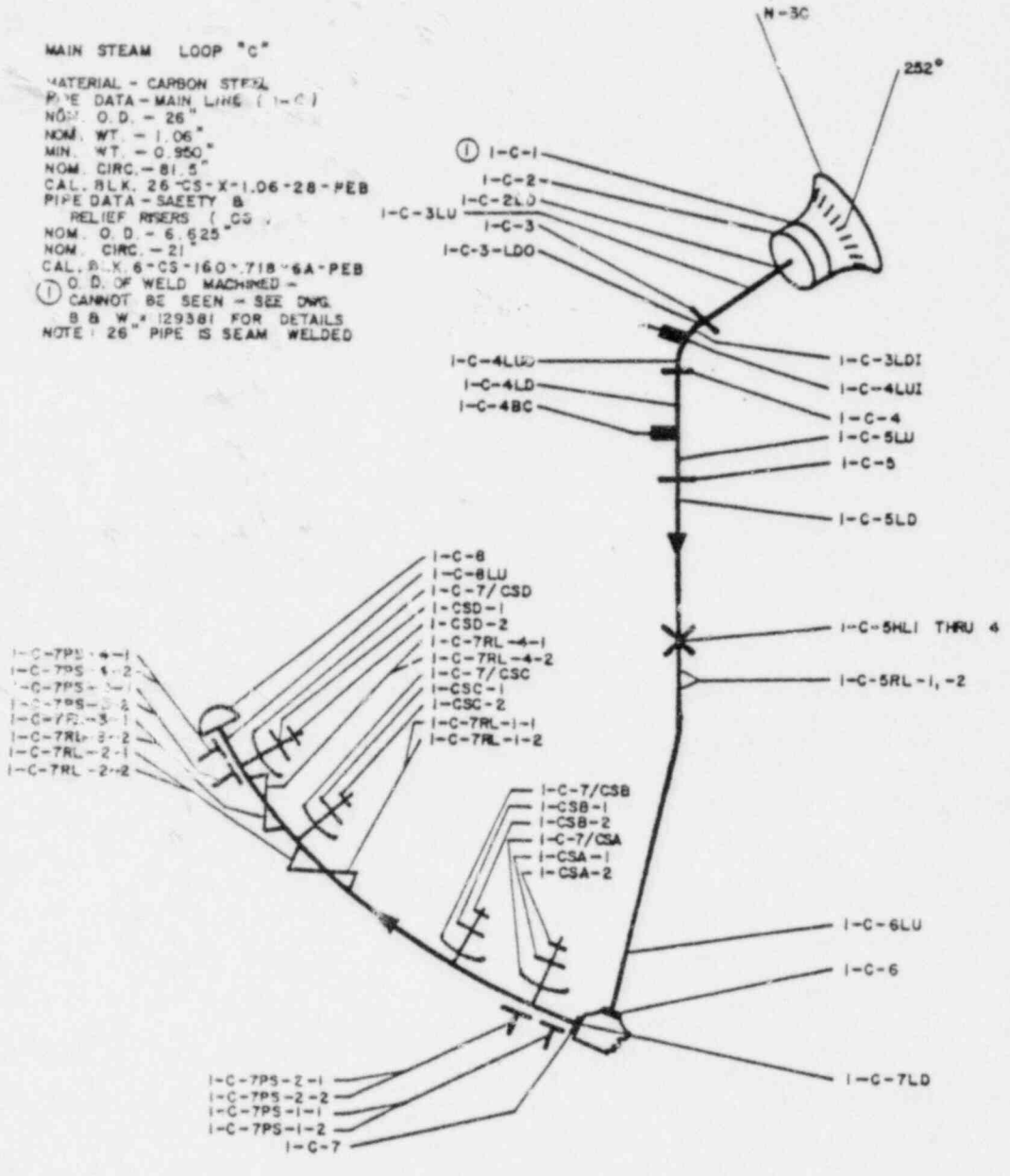

MAIN STEAM LOOP "C"
MATERIAL - CARBON STEEL
PIPE DATA - MAIN LINE (I-C)
NOM. O.D. - 26"
NOM. WT. - 1.06"
MIN. WT. - 0.950"
NOM. CIRC. - 81.5"
CAL. BLK. 26-CS-X-1.06-28-PEB
PIPE DATA - SAFETY & RELIEF RISERS (CS)
NOM. O.D. - 6.625"
NOM. CIRC. - 21"
CAL. BLK. 6-CS-160-.718-6A-PEB
① O.D. OF WELD MACHINED - CANNOT BE SEEN - SEE DWG. B & W.# 129381 FOR DETAILS
NOTE: 26" PIPE IS SEAM WELDED
N-3C
252°
① I-C-1
I-C-2
I-C-2LD
I-C-3LU
I-C-3
I-C-3-LDO
I-C-4LUO
I-C-4LD
I-C-4BC
I-C-3LDI
I-C-4LUI
I-C-4
I-C-5LU
I-C-5
I-C-5LD
I-C-8
I-C-8LU
I-C-7/CSD
I-CSD-1
I-CSD-2
I-C-7RL-4-1
I-C-7RL-4-2
I-C-7/CSC
I-CSC-1
I-CSC-2
I-C-7RL-1-1
I-C-7RL-1-2
I-C-5HL1 THRU 4
I-C-5RL-1, -2
I-C-7/CSB
I-CSB-1
I-CSB-2
I-C-7/CSA
I-CSA-1
I-CSA-2
I-C-6LU
I-C-6
I-C-7LD
I-C-7PS-2-1
I-C-7PS-2-2
I-C-7PS-1-1
I-C-7PS-1-2
I-C-7

FIGURE A-7

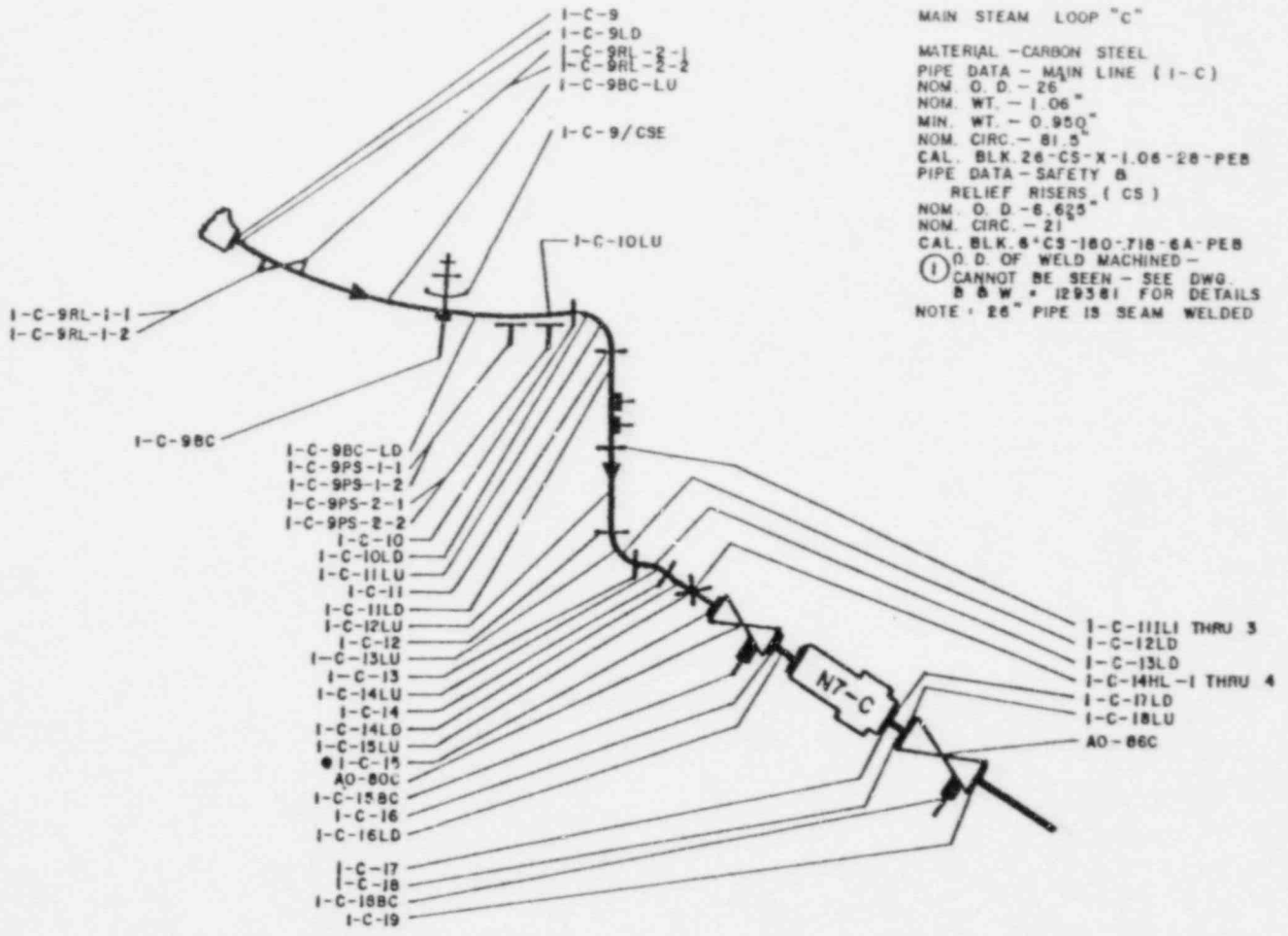
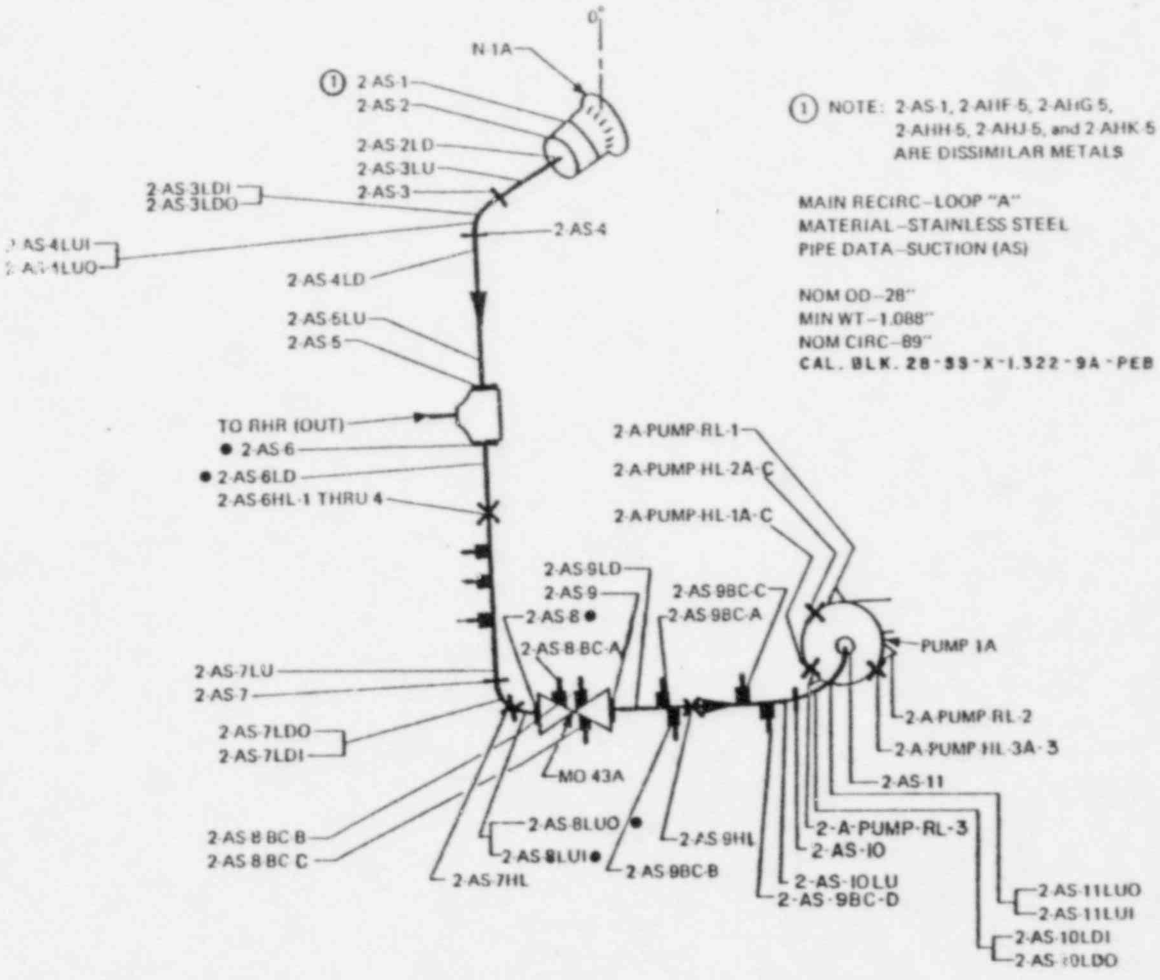

MAIN STEAM LOOP "C"
MATERIAL - CARBON STEEL
PIPE DATA - MAIN LINE (I-C)
NOM. O. D. - 26"
NOM. WT. - 1.06"
MIN. WT. - 0.950"
NOM. CIRC. - 81.5"
CAL. BLK. 26-CS-X-1.06-28-PEB
PIPE DATA - SAFETY & RELIEF RISERS (CS)
NOM. O. D. - 6.625"
NOM. CIRC. - 21"
CAL. BLK. 6"CS-160-.718-6A-PEB
(1) O. D. OF WELD MACHINED - CANNOT BE SEEN - SEE DWG. B & W. # 129381 FOR DETAILS
NOTE : 26" PIPE IS SEAM WELDED
I-C-9
I-C-9LD
I-C-9RL-2-1
I-C-9RL-2-2
I-C-9BC-LU
I-C-9/CSE
I-C-10LU
I-C-9RL-1-1
I-C-9RL-1-2
I-C-9BC
I-C-9BC-LD
I-C-9PS-1-1
I-C-9PS-1-2
I-C-9PS-2-1
I-C-9PS-2-2
I-C-10
I-C-10LD
I-C-11LU
I-C-11
I-C-11LD
I-C-12LU
I-C-12
I-C-13LU
I-C-13
I-C-14LU
I-C-14
I-C-14LD
I-C-15LU
• I-C-15
AO-80C
I-C-15BC
I-C-16
I-C-16LD
I-C-17
I-C-18
I-C-18BC
I-C-19
NT-C
I-C-111LI THRU 3
I-C-12LD
I-C-13LD
I-C-14HL-1 THRU 4
I-C-17LD
I-C-18LU
AO-86C

FIGURE A-8

MAIN RECIRCULATION - LOOP "A" SUCTION



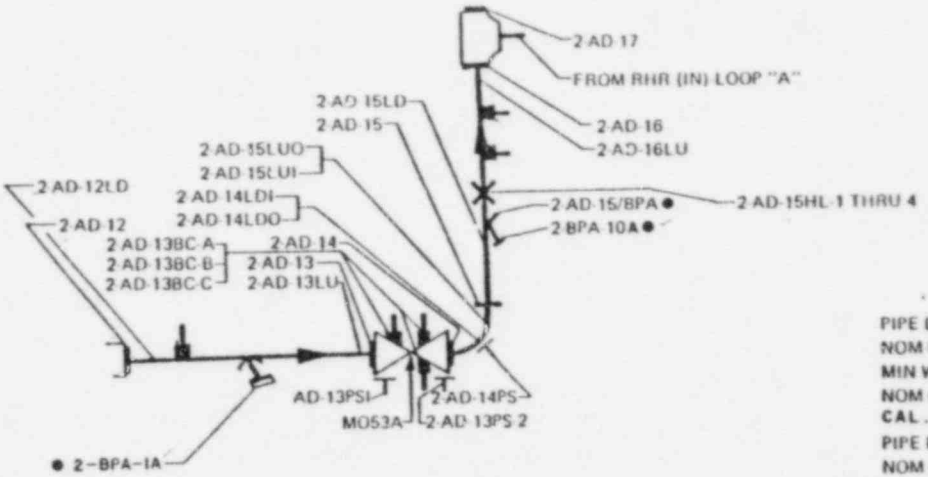
① NOTE: 2-AS-1, 2-AHF-5, 2-AHG-5, 2-AHH-5, 2-AHJ-5, and 2-AHK-5 ARE DISSIMILAR METALS

MAIN RECIRC–LOOP "A"
MATERIAL–STAINLESS STEEL
PIPE DATA–SUCTION (AS)

NOM OD–28"
MIN WT–1.088"
NOM CIRC–89"
CAL. BLK. 28-SS-X-1.322-9A-PEB

FIGURE A-11

DISCHARGE AND BYPASS



PIPE DATA–DISCHARGE (AD)
NOM OD–28"
MIN WT–1.272"
NOM CIRC–89"
CAL. BLK. 28-SS-X-1.322-9A-PEB
PIPE DATA–BYPASS (BPA)
NOM OD–4.0"
NOM WT–0.337 (Sch. 80)
NOM CIRC–14"
CAL. BLK. 4-SS-80-.337-10A-PEB
BYPASS LINE REMOVED AND CAPPED DURING THE 1981 ISI.

NOTE: 28", 22", & 12" PIPE IS SEAM WELDED

FIGURE A-12

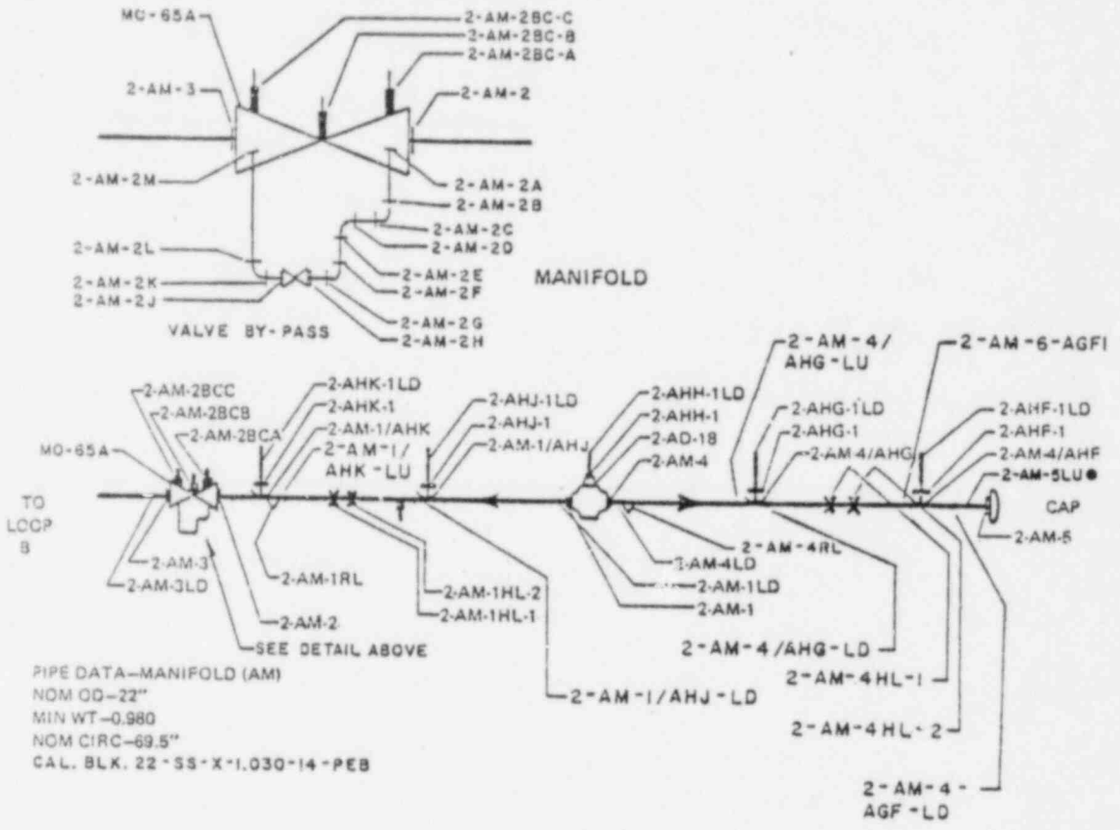
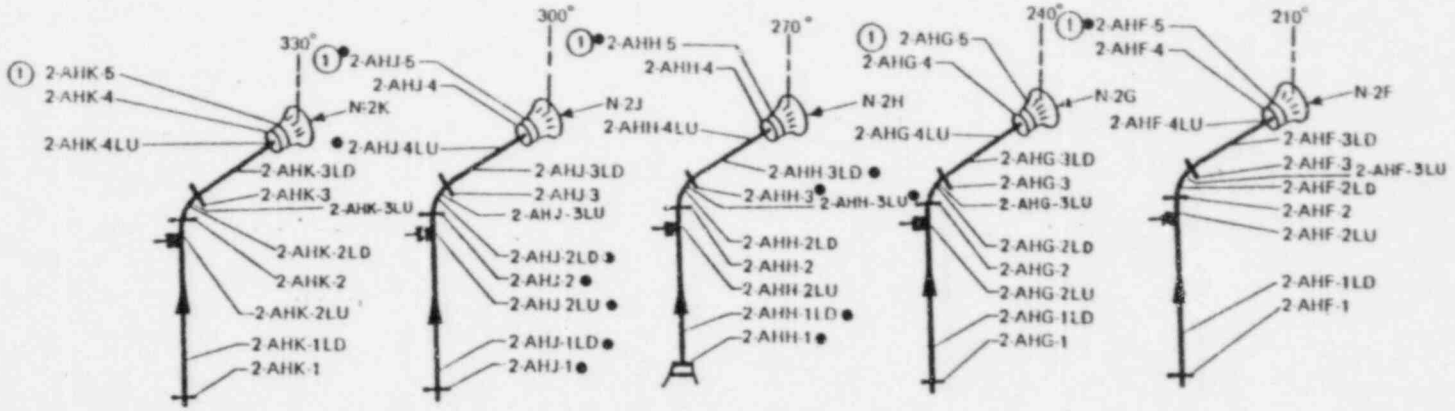

MO-65A
2-AM-2BC-C
2-AM-2BC-B
2-AM-2BC-A
2-AM-3
2-AM-2
2-AM-2M
2-AM-2A
2-AM-2B
2-AM-2C
2-AM-2D
2-AM-2L
2-AM-2K
2-AM-2J
2-AM-2E
2-AM-2F
MANIFOLD
VALVE BY-PASS
2-AM-2G
2-AM-2H
2-AM-4/
AHG-LU
2-AM-6-AGFI
2-AM-2BCC
2-AM-2BCB
2-AM-2BCA
2-AHK-1LD
2-AHK-1
2-AM-1/AHK
2-AM-1/
AHK-LU
2-AHJ-1LD
2-AHJ-1
2-AM-1/AHJ
2-AHH-1LD
2-AHH-1
2-AD-18
2-AM-4
2-AHG-1LD
2-AHG-1
2-AM-4/AHG
2-AHF-1LD
2-AHF-1
2-AM-4/AHF
2-AM-5LU●
MO-65A
TO
LOOP
B
CAP
2-AM-5
2-AM-4RL
2-AM-4LD
2-AM-1LD
2-AM-1
2-AM-3
2-AM-3LD
2-AM-1RL
2-AM-1HL-2
2-AM-1HL-1
2-AM-2
SEE DETAIL ABOVE
2-AM-4/AHG-LD
2-AM-4HL-1
2-AM-1/AHJ-LD
2-AM-4HL-2
2-AM-4-
AGF-LD
PIPE DATA—MANIFOLD (AM)
NOM OD—22"
MIN WT—0.980
NOM CIRC—69.5"
CAL. BLK. 22-SS-X-1.030-14-PEB

FIGURE A-13

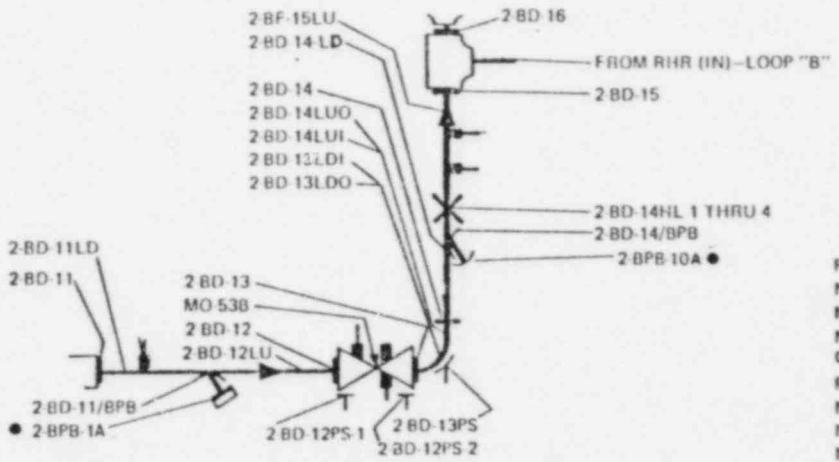
HEADERS



PIPE DATA—HEADERS (AH)
NOM OD—12.75
MIN WT—0.569 (VERT)
0.789 (HORIZ)
NOM CIRC—40.5"
CAL. BLK. 12-SS-X-.625-IIA-PEB
(1) NOTE: 2-AHK-5, 2-AHJ-5, 2-AHH-5, 2-AHG-5, AND 2-AHF-5 ARE DISSIMILAR METALS.

FIGURE A-14

DISCHARGE AND BYPASS

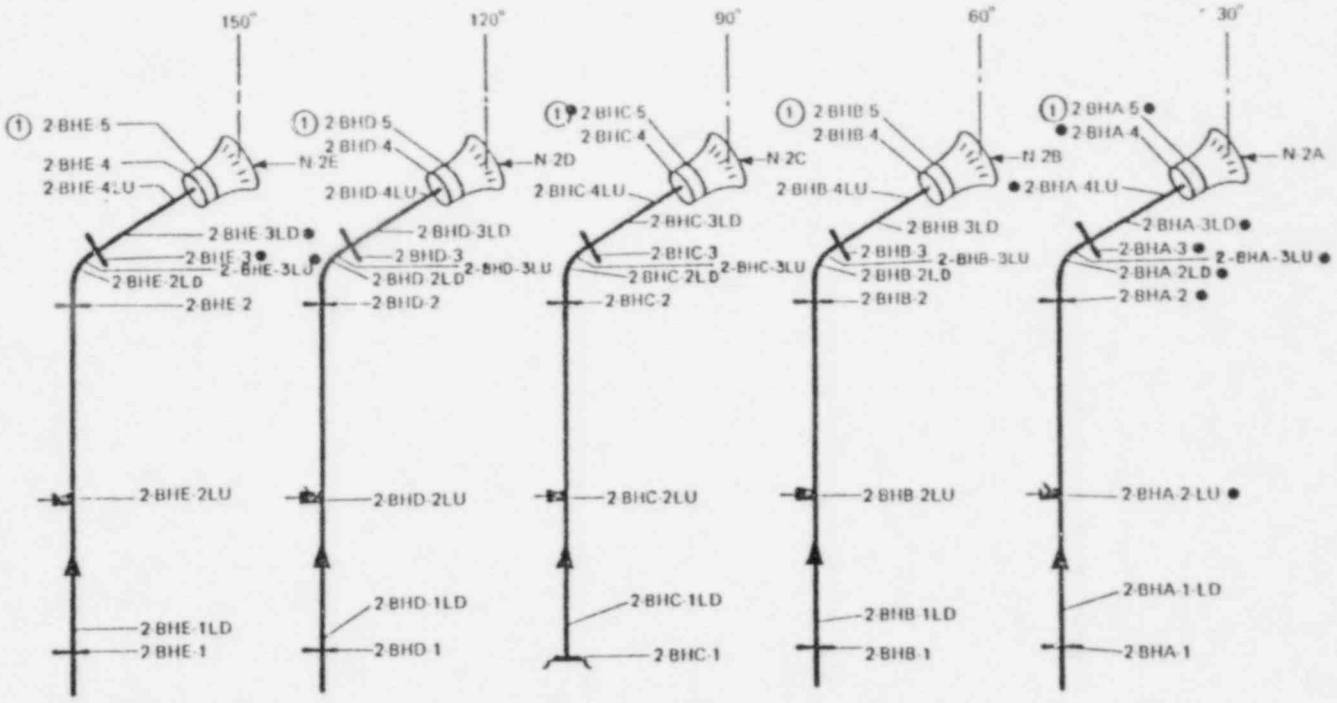


PIPE DATA–DISCHARGE (BD)
NOM OD–28"
MIN WT–1.272"
NOM OD–89"
CAL. BLK. 28-SS-X-1.322-9A-PEB
PIPE DATA–BYPASS (BPB)
NOM OD–4.5"
NOM WT–0.337 (Sch. 80)
NOM CIRC–14"
CAL. BLK. 4-SS-80-337-10A-PEB

BYPASS LINE REMOVED AND CAPPED DURING THE 1981 ISI.

FIGURE A-16

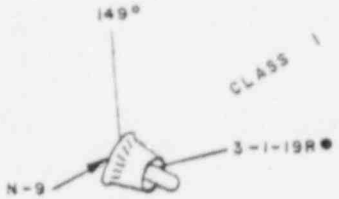
HEADERS



1 NOTE : DISSIMILAR METAL WELDS

PIPE DATA--HEADERS (BIH)
NOM OD--12.75"
MIN WT--0.569" (VERT)
0.789" (HORIZ)
NOM CIRC--40.5"
CAL. BLK. 12-SS-X-.625-11A-PEB

FIGURE A-18



CONTROL ROD DRIVE
HYDRAULIC RETURN

PIPE DATA - CRD (IN) (3-1)

MATERIAL :
3-1-1 TO 3-1-9 - CARBON STEEL
3-1-9 TO 3-1-19 - STAINLESS STEEL

NOM OD - 4.5"

NOM WT - 0.337 (SCH 80)

NOM CIRC - 14"

CAL. BLK. - 4-SS-80-.337-10A-PEB
4-CS-160-.531-27-PEB
4.5-CS-80-.35-17-PEB

(1) NOTE : 3-1-9 AND 3-1-19R ARE DISSIMILAR METALS

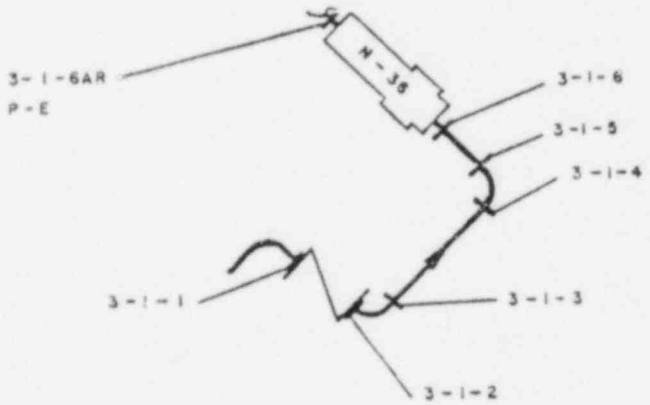
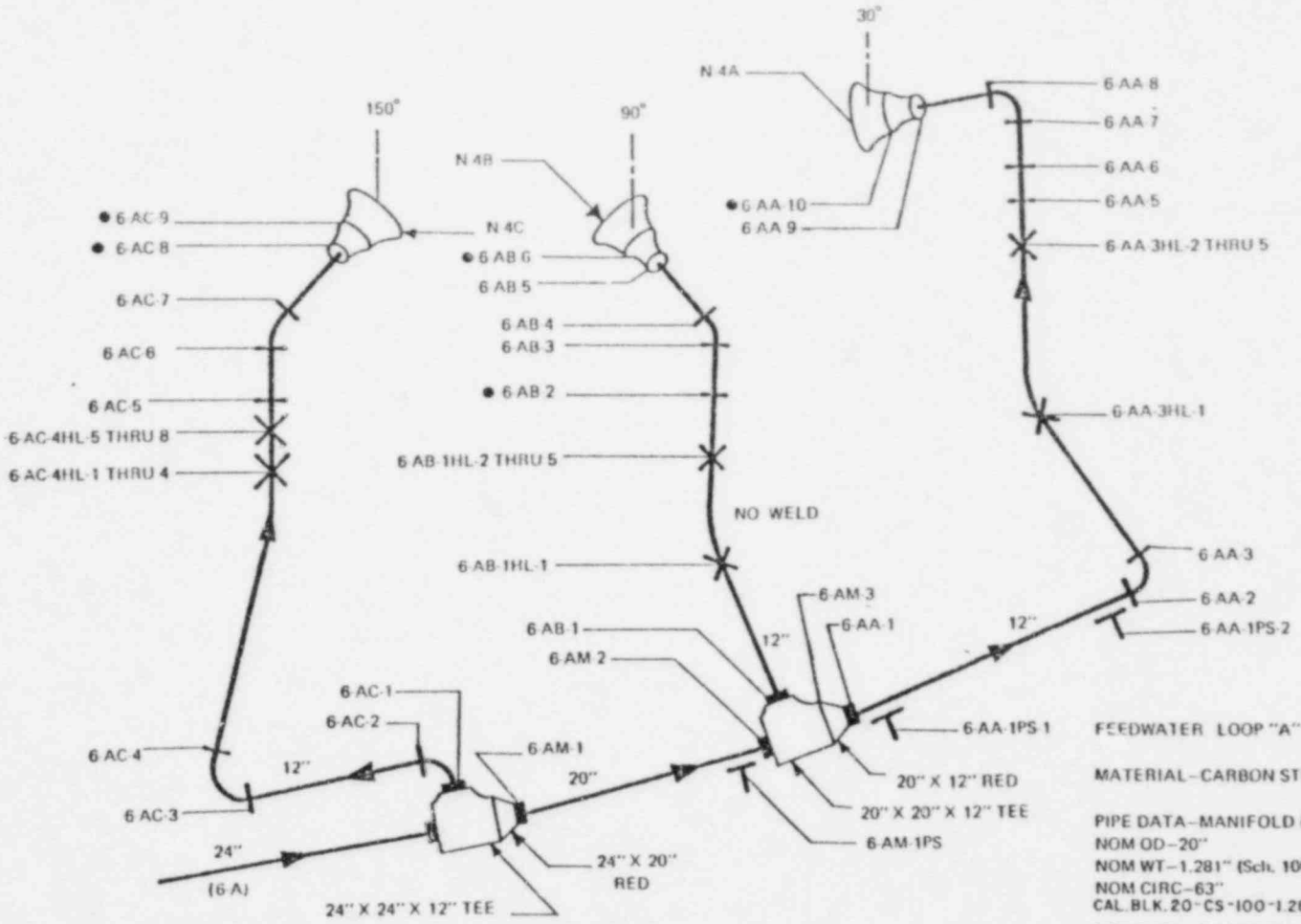


FIGURE A-19



FEEDWATER LOOP "A"

MATERIAL–CARBON STEEL

PIPE DATA–MANIFOLD (AM)
NOM OD–20"
NOM WT–1.281" (Sch. 100)
NOM CIRC–63"
CAL. BLK. 20-CS-100-1.281-13A-PEB

PIPE DATA–RISERS (AA, AB, AC)
NOM OD–12.75"
NOM WT–0.844" (Sch. 100)
NOM CIRC–40.5"
CAL. BLK. 12-CS-100-.843-3-PEB

FIGURE A-21

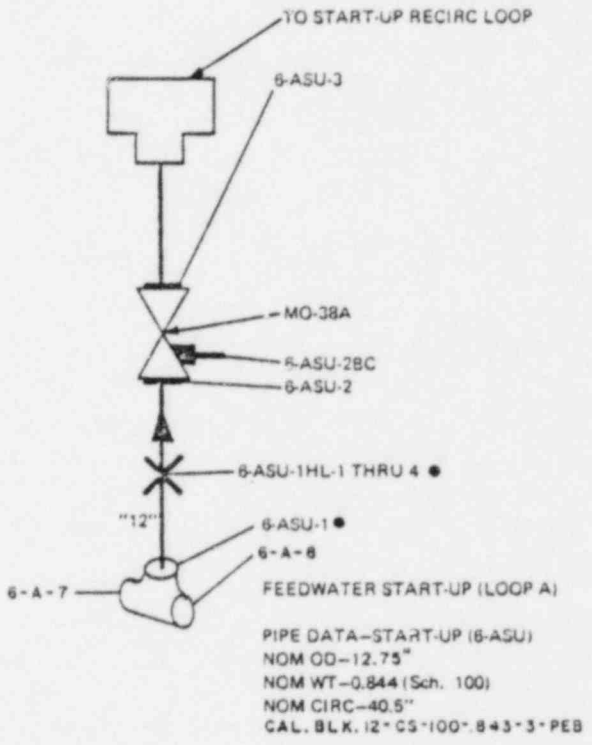
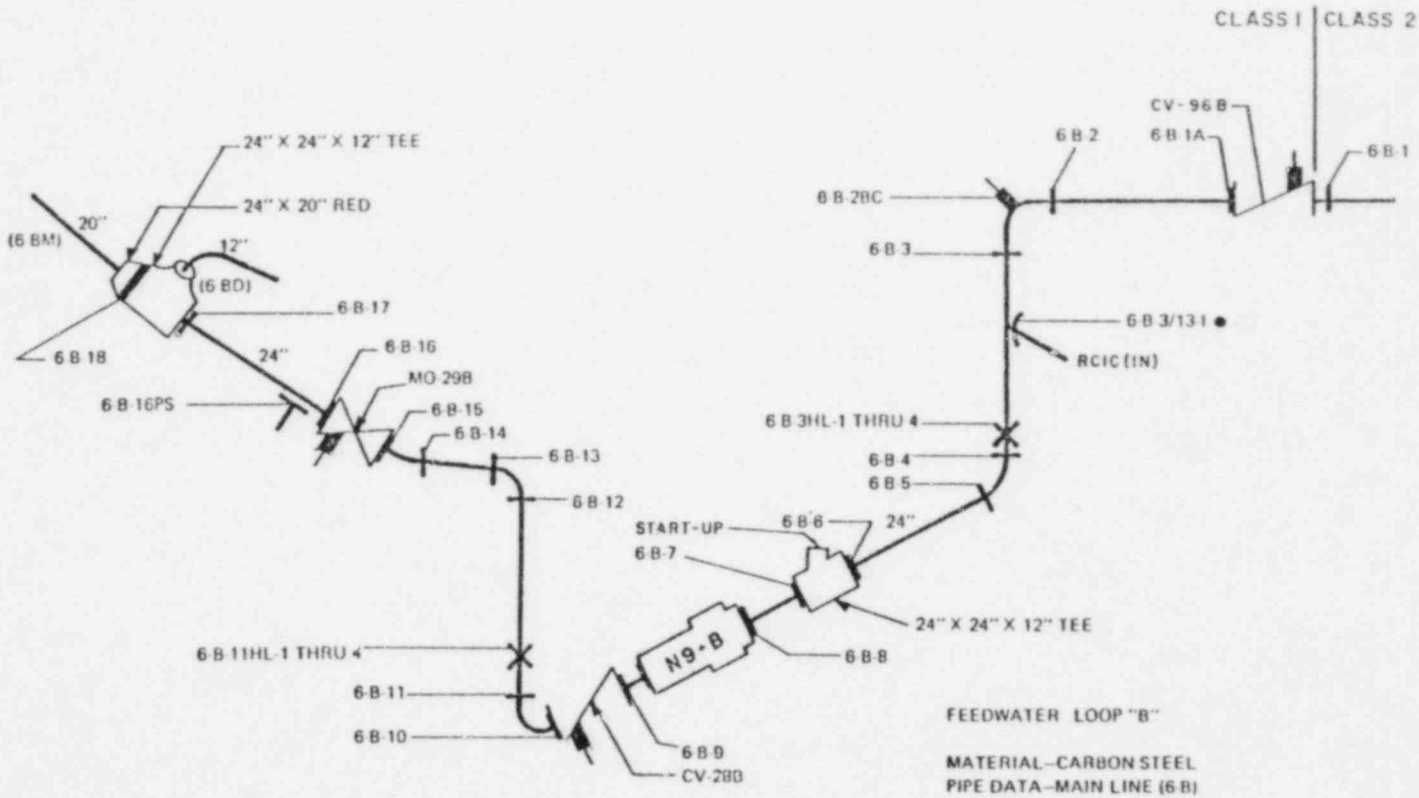

TO START-UP RECIRC LOOP
6-ASU-3
MO-38A
6-ASU-28C
6-ASU-2
6-ASU-1HL-1 THRU 4 ●
"12"
6-ASU-1 ●
6-A-6
6-A-7
FEEDWATER START-UP (LOOP A)
PIPE DATA-START-UP (6-ASU)
NOM OD-12.75"
NOM WT-0.844 (Sch. 100)
NOM CIRC-40.5"
CAL. BLK. 12-CS-100-.843-3-PEB

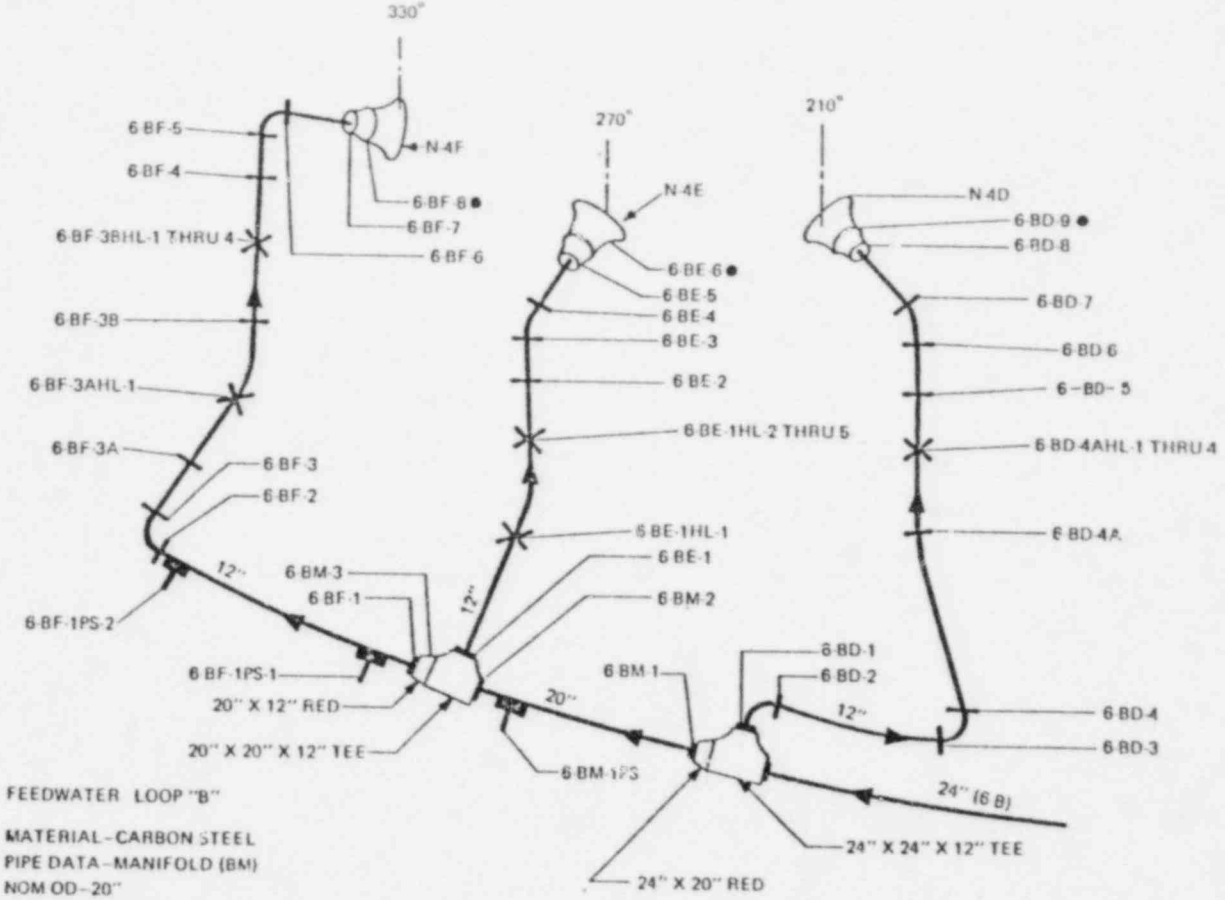
FIGURE A-22



FEEDWATER LOOP "B"

MATERIAL–CARBON STEEL
PIPE DATA–MAIN LINE (6-B)
NOM OD–24"
NOM WT–1.531 (Sch. 100)
NOM CIRC–76"
CAL. BLK. 24-CS-100-1.531-2A-PEB

FIGURE A-23



FEEDWATER LOOP "B"

MATERIAL - CARBON STEEL
PIPE DATA - MANIFOLD (BM)
NOM OD - 20"
NOM WT - 1.281" (Sch. 100)
NOM CIRC - 62"
CAL. BLK. 20 - CS - 100 - 1.281 - 13A - PEB
PIPE DATA - RISERS (BD, BE, BF)
NOM OD - 12"
NOM WT - 0.843 (Sch. 100)
NOM CIRC - 40.5"
CAL. BLK. 12 - CS - 100 - .843 - 3 - PEB

FIGURE A-24

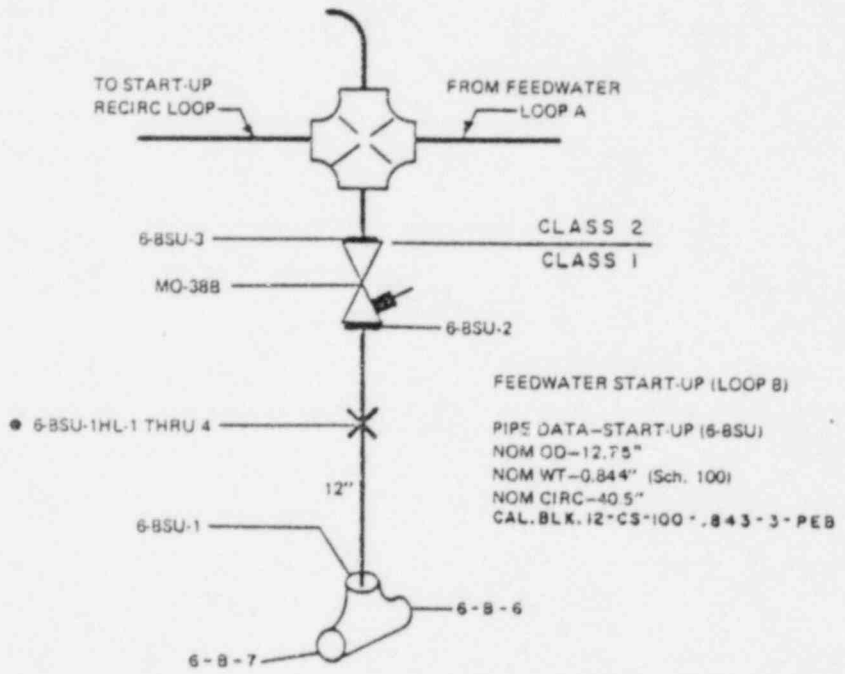

TO START-UP
RECIRC LOOP
FROM FEEDWATER
LOOP A
6-8SU-3
CLASS 2
CLASS 1
MO-388
6-8SU-2
FEEDWATER START-UP (LOOP B)
● 6-8SU-1HL-1 THRU 4
PIPE DATA-START-UP (6-8SU)
NOM OD-12.75"
NOM WT-0.844" (Sch. 100)
NOM CIRC-40.5"
CAL. BLK. 12"-CS-100"-.843-3-PEB
12"
6-8SU-1
6-8-6
6-8-7

FIGURE A-25

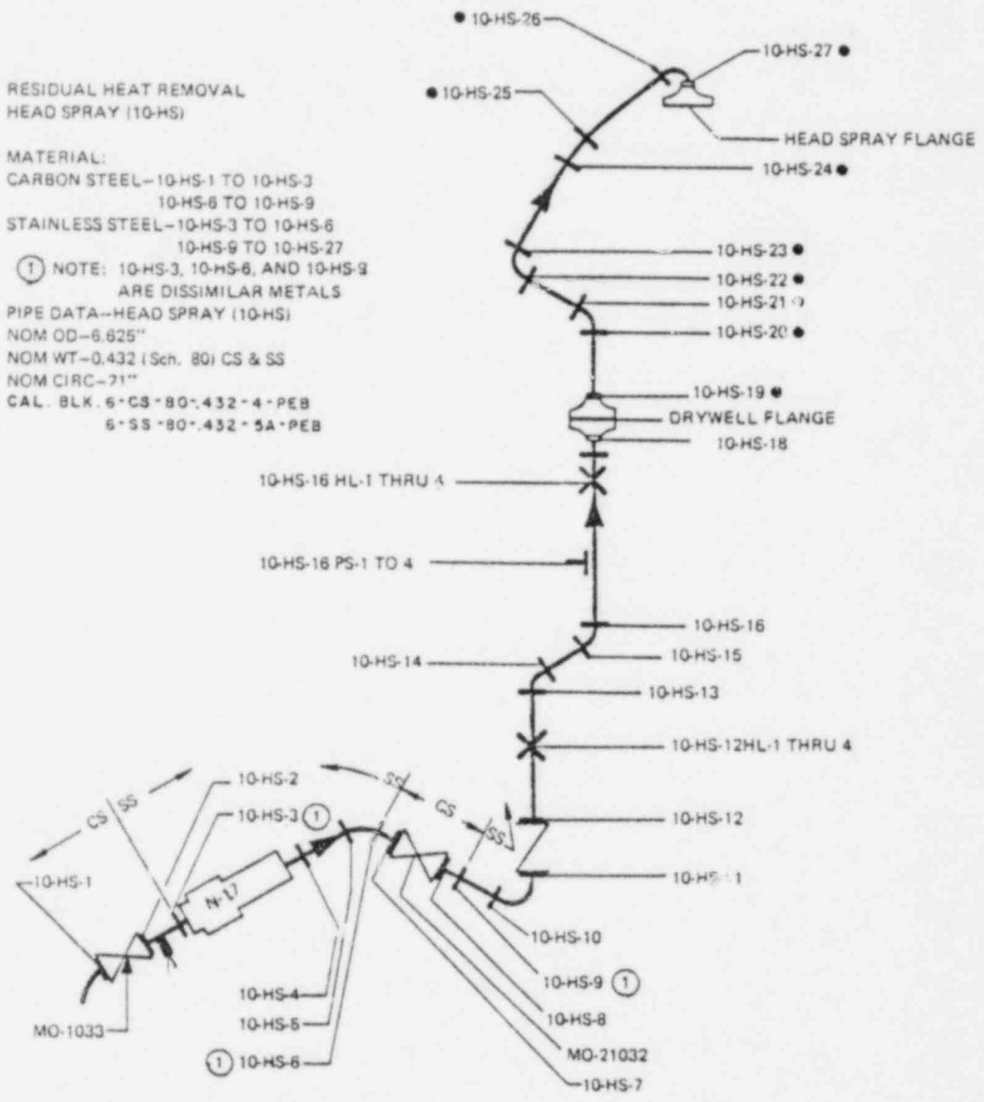
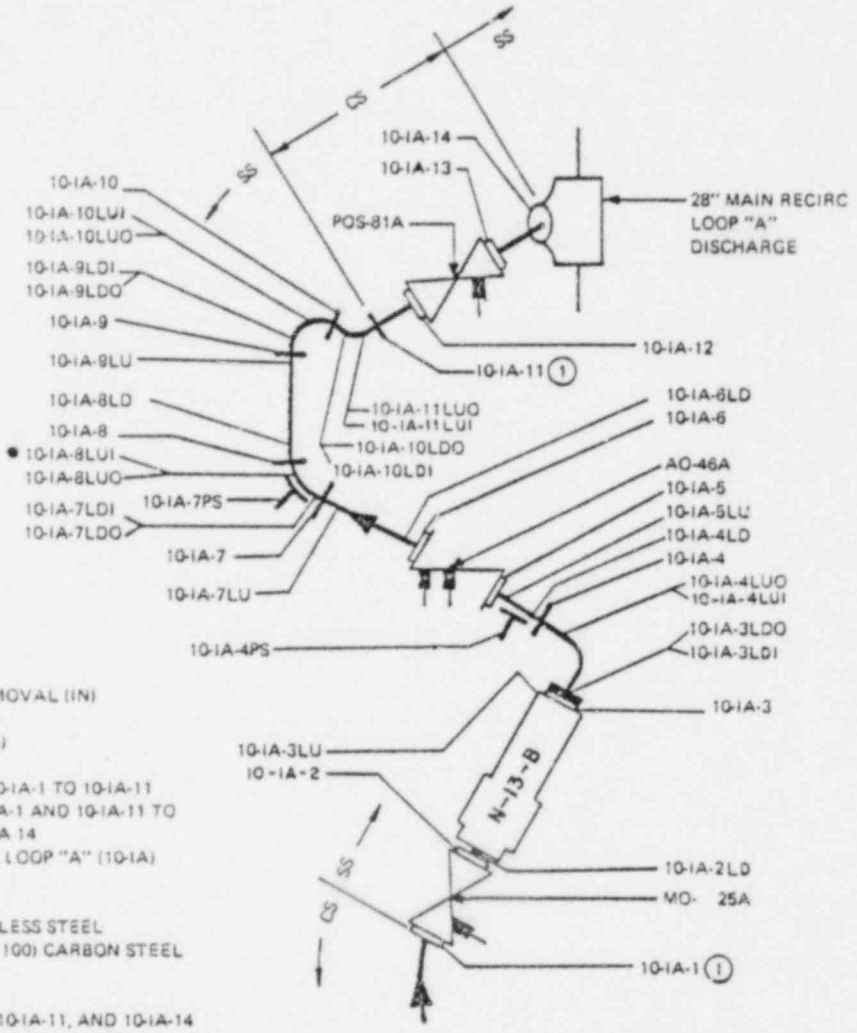

RESIDUAL HEAT REMOVAL
HEAD SPRAY (10-HS)
MATERIAL:
CARBON STEEL–10-HS-1 TO 10-HS-3
10-HS-6 TO 10-HS-9
STAINLESS STEEL–10-HS-3 TO 10-HS-6
10-HS-9 TO 10-HS-27
(1) NOTE: 10-HS-3, 10-HS-6, AND 10-HS-9 ARE DISSIMILAR METALS
PIPE DATA–HEAD SPRAY (10-HS)
NOM OD–6.625"
NOM WT–0.432 (Sch. 80) CS & SS
NOM CIRC–21"
CAL. BLK. 6"-CS-80"-.432"-4"-PEB
6"-SS-80"-.432"-5A"-PEB
10-HS-26
10-HS-27
10-HS-25
HEAD SPRAY FLANGE
10-HS-24
10-HS-23
10-HS-22
10-HS-21
10-HS-20
10-HS-19
DRYWELL FLANGE
10-HS-18
10-HS-16 HL-1 THRU 4
10-HS-16 PS-1 TO 4
10-HS-16
10-HS-14
10-HS-15
10-HS-13
10-HS-12HL-1 THRU 4
10-HS-12
10-HS-11
10-HS-10
10-HS-9 (1)
10-HS-8
MO-21032
10-HS-7
10-HS-2
10-HS-3 (1)
CS
SS
10-HS-1
N-17
MO-1033
10-HS-4
10-HS-5
(1) 10-HS-6

FIGURE A-26



RESIDUAL HEAT REMOVAL (IN)

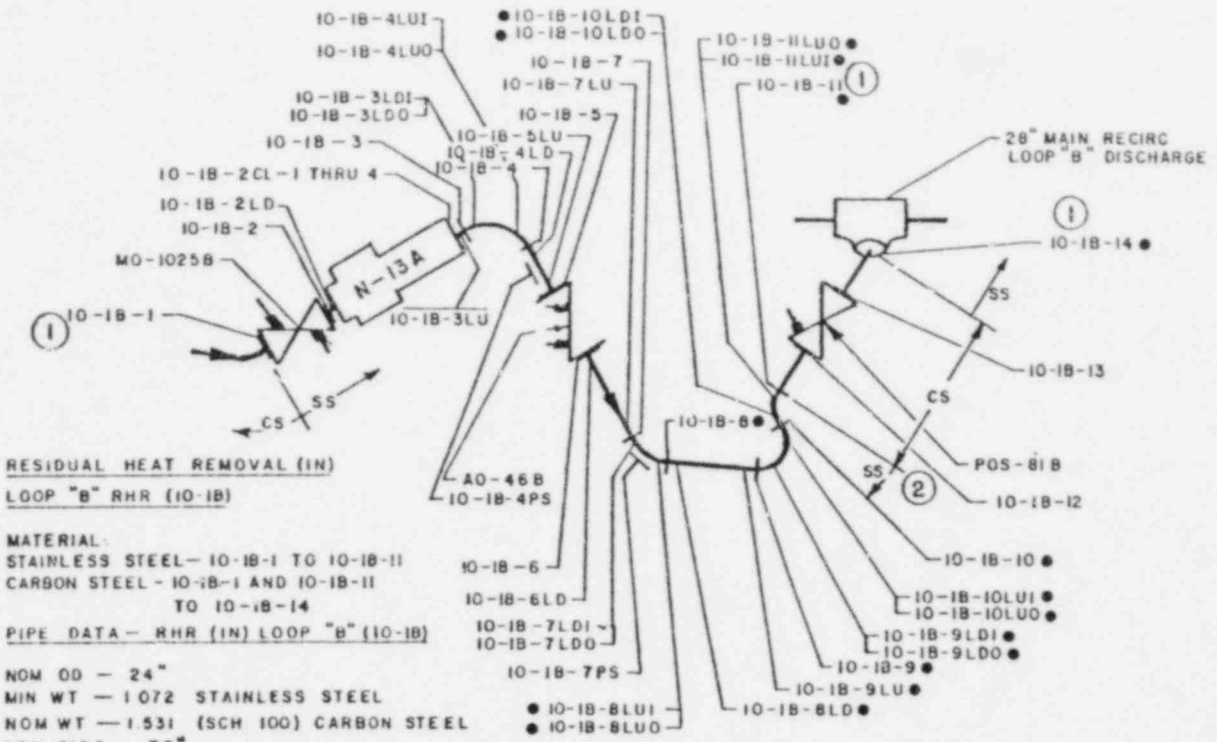
LOOP "A" RHR (10-1A)
MATERIAL
STAINLESS STEEL – 10-1A-1 TO 10-1A-11
CARBON STEEL – 10-1A-1 AND 10-1A-11 TO 10-1A 14
PIPE DATA – RHR (IN) LOOP "A" (10-1A)

NOM OD – 24"
MIN WT – 1.072 STAINLESS STEEL
NOM WT – 1.531 (Sch. 100) CARBON STEEL
NOM CIRC – 76"

(1) NOTE: 10-1A-1, 10-1A-11, AND 10-1A-14 ARE DISSIMILAR METALS
NOTE: STAINLESS STEEL IS SEAMED
CARBON STEEL IS SEAMLESS

CAL. BLK. 24-CS-100-1.531-2A-PEB
24-SS-100-1.531-32-PEB

FIGURE A-27



RESIDUAL HEAT REMOVAL (IN)

LOOP "B" RHR (10-1B)

MATERIAL:
STAINLESS STEEL — 10-1B-1 TO 10-1B-11
CARBON STEEL - 10-1B-1 AND 10-1B-11 TO 10-1B-14

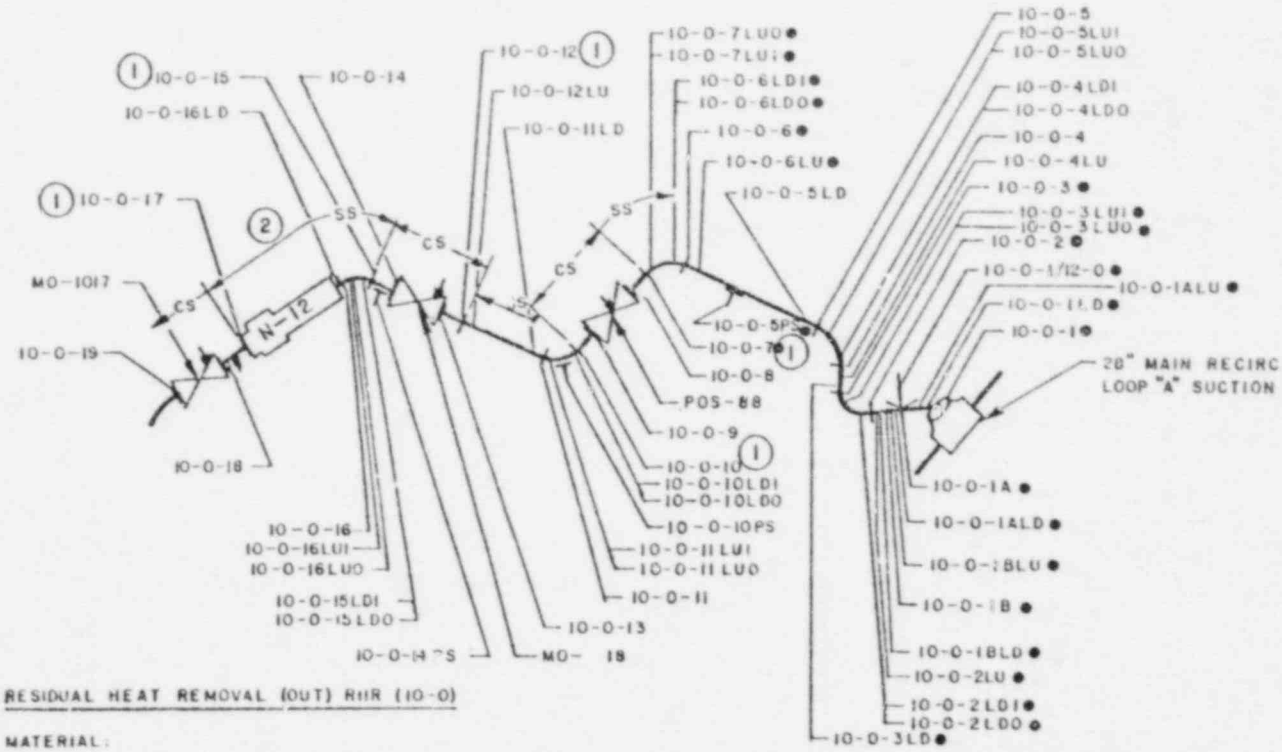
PIPE DATA — RHR (IN) LOOP "B" (10-1B)

NOM OD — 24"
MIN WT — 1.072 STAINLESS STEEL
NOM WT — 1.531 (SCH 100) CARBON STEEL
NOM CIRC — 76"

(1) NOTE 10-1B-1, 10-1B-11 AND 10-1B-14 ARE DISSIMILAR METAL

(2) NOTE STAINLESS STEEL IS SEAMED
CARBON STEEL IS SEAMLESS
CAL. BLK. 24-CS-100-1.531-2A-PEB
24-SS-100-1.531-32-PEB

FIGURE A-28



RESIDUAL HEAT REMOVAL (OUT) RHR (10-0)

MATERIAL:

STAINLESS STEEL — 10-0-1 TO 10-0-7
10-0-10 TO 10-0-12
10-0-15 TO 10-0-17

CARBON STEEL — 10-0-7 TO 10-0-10
10-0-12 TO 10-0-15
10-0-17 TO 10-0-19

(1) NOTE: 10-0-7, 10-0-10, 10-0-12, 10-0-15 AND 10-0-17 ARE DISSIMILAR METAL

(2) NOTE: STAINLESS STEEL IS SEAMED
CARBON STEEL IS SEAMLESS

PIPE DATA — RHR (OUT) (10-0)

NOM OD — 20"
MIN WT — 0.774 STAINLESS STEEL
NOM WT — 1.031 (SCH. 80) CARBON STEEL
NOM CIRC — 63"
CAL. BLK. 20-CS-100-1.281-13C-PEB
20-SS-60-.812-33-PEB
20-CS-80-1.031-37-PEB

FIGURE A-29

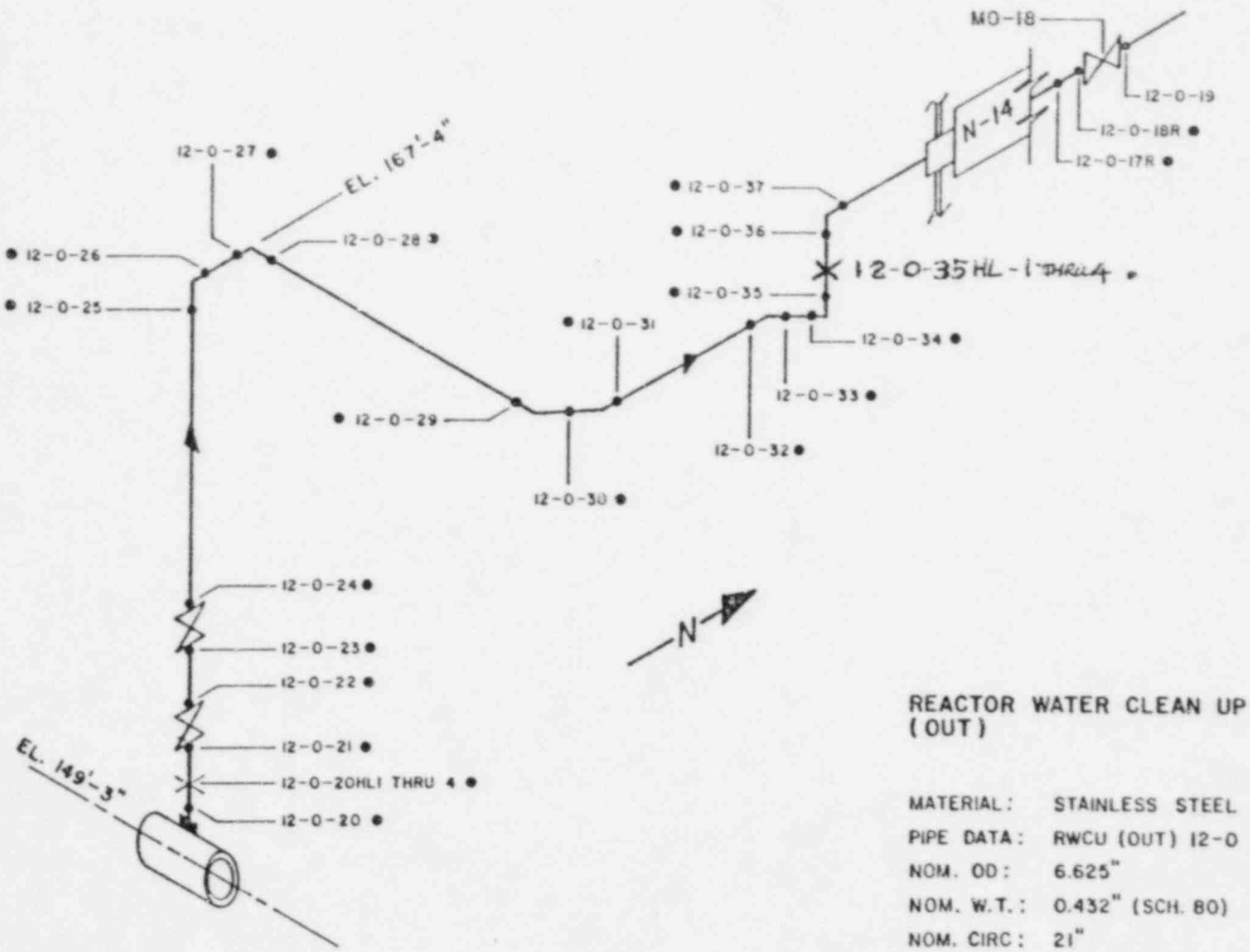
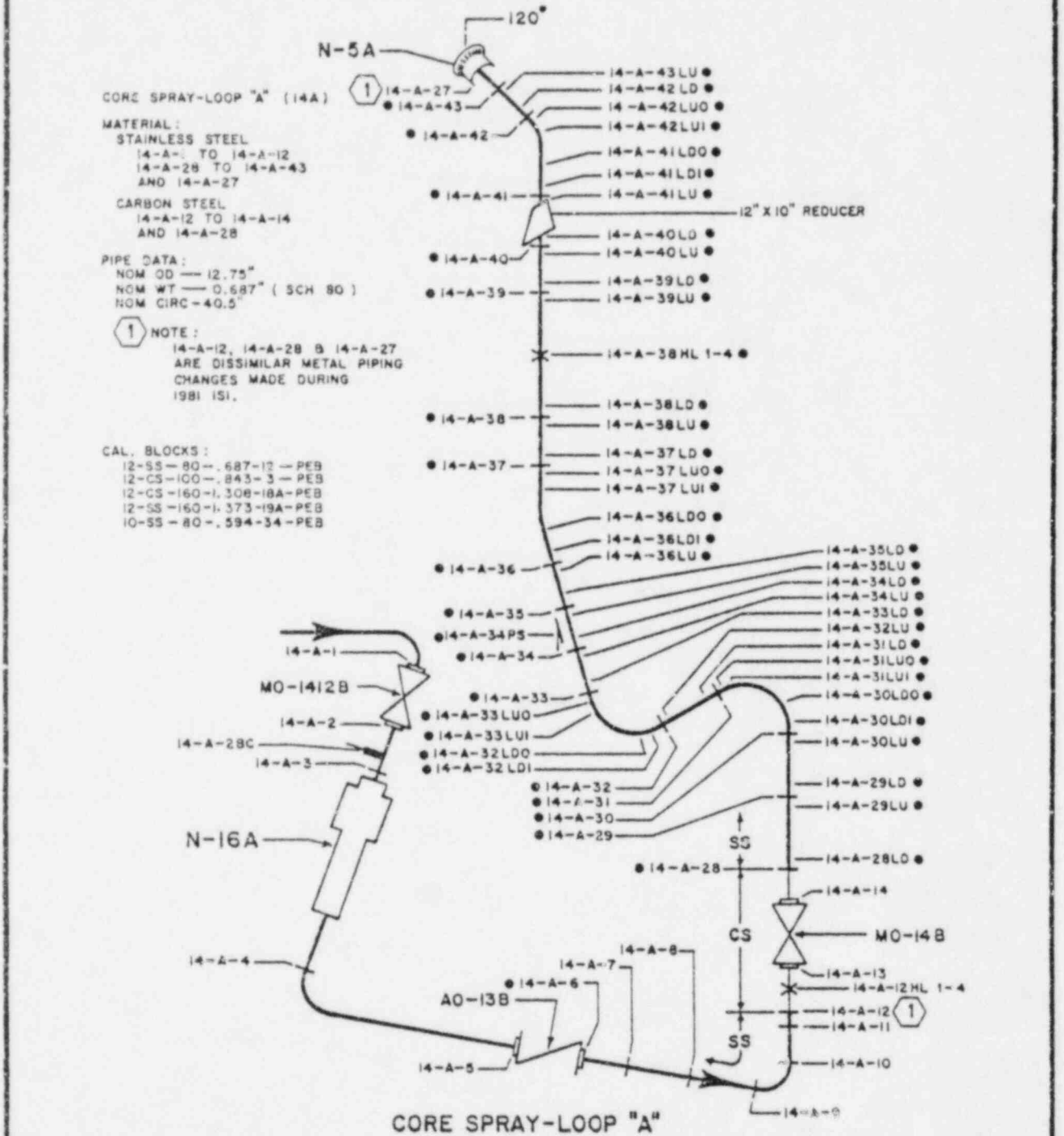


FIGURE A-31

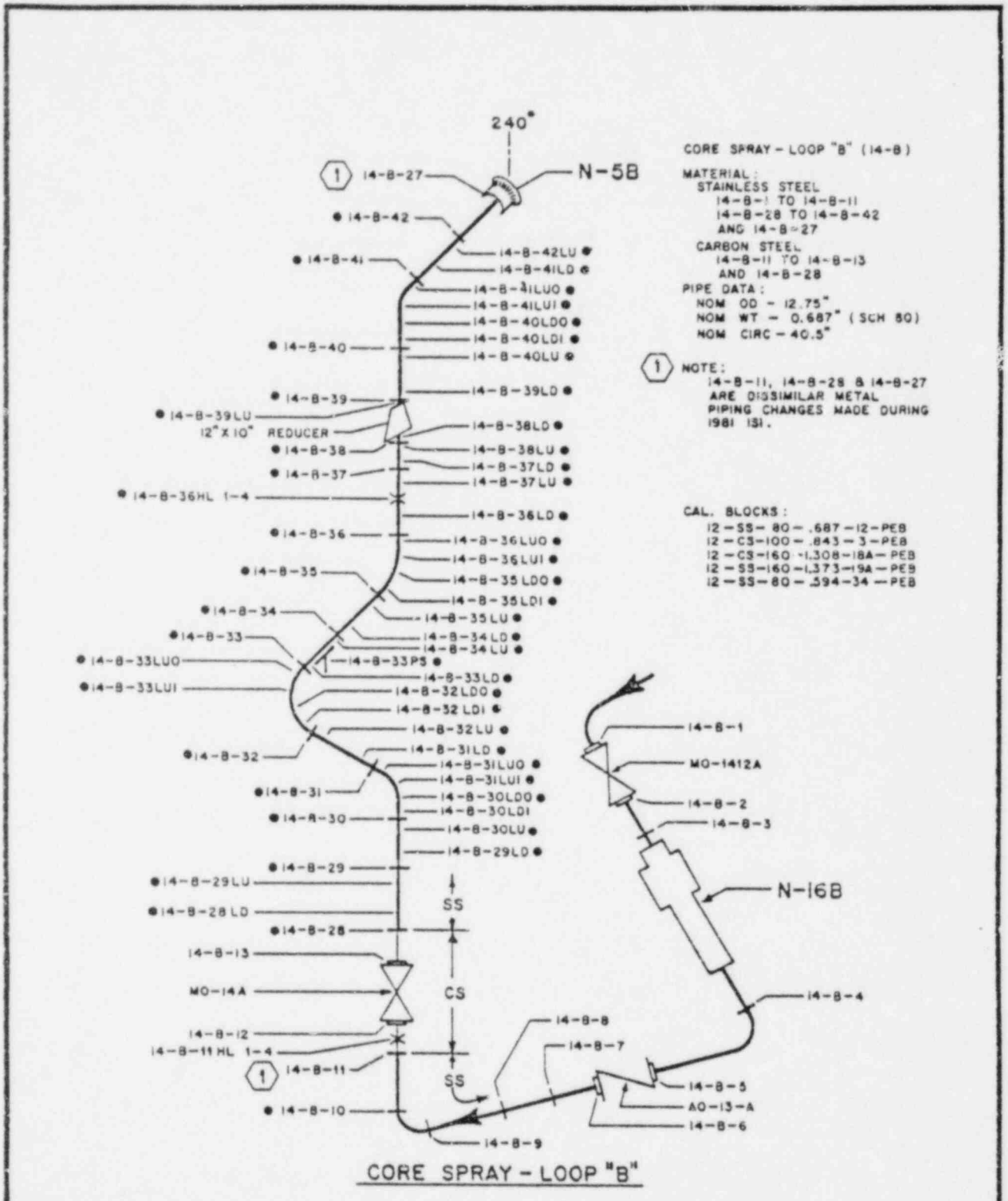
REACTOR WATER CLEAN UP
(OUT)

MATERIAL:	STAINLESS STEEL
PIPE DATA:	RWCU (OUT) 12-0
NOM. OD:	6.625"
NOM. W.T.:	0.432" (SCH. 80)
NOM. CIRC:	21"
CAL BLK:	6-SS-80-A32-5A-PEB



CORE SPRAY-LOOP "A"

FIGURE A-33

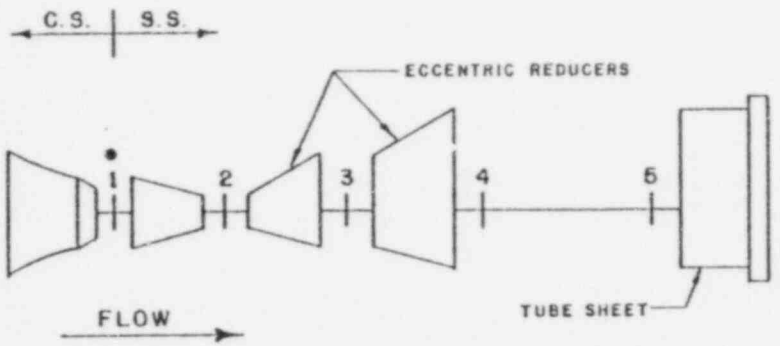


CORE SPRAY - LOOP "B"

FIGURE A-34

JET PUMP INSTRUMENTATION

(BOTH A & B LOOP)



WELD DESIGNATION EXAMPLES:

A LOOP : JP - A - 2

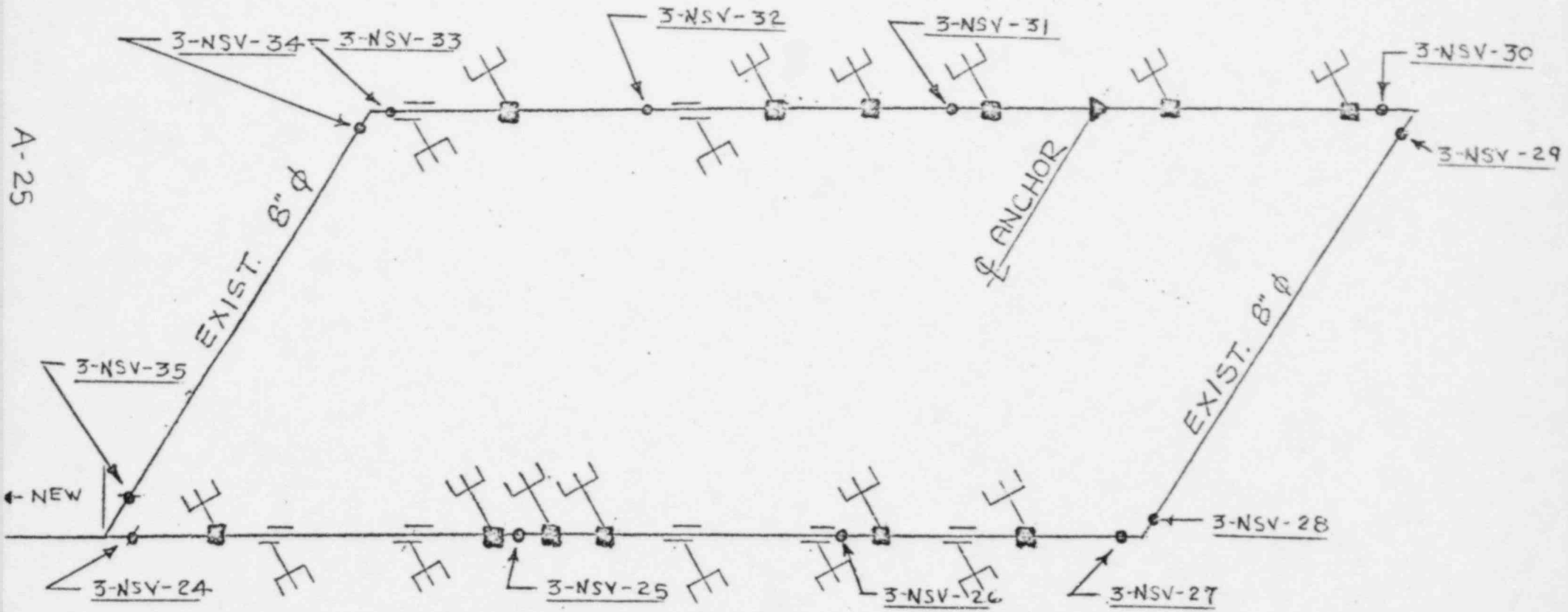
B LOOP : JP - B - 2

WELD No.	DIAM. Inches	THICKNESS Inches	STANDARD
1	5.4	.8	Safety & Relief Riser (Up Stream) RWCU (Down Stream)
2	4.3	.33	RWCU
3	8.7	.55	RHR Head Spray
4	12.8	.7	M R Header
5	12.8	.7	M R Header

FIGURE A-37

NORTH
SCRAM DISCHARGE VOLUME HEADER

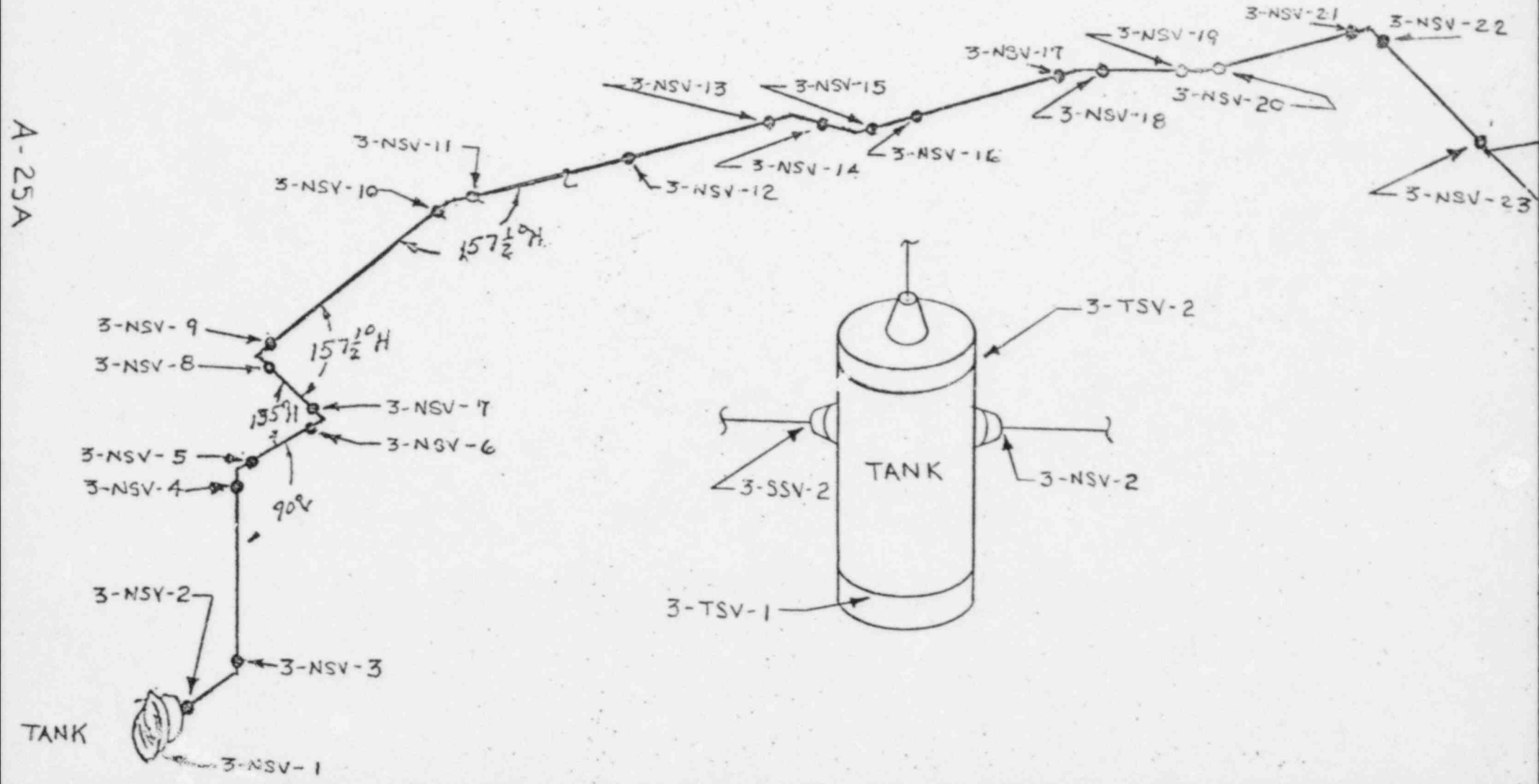
FIGURE A-38



DWG JJS - 11-17-81

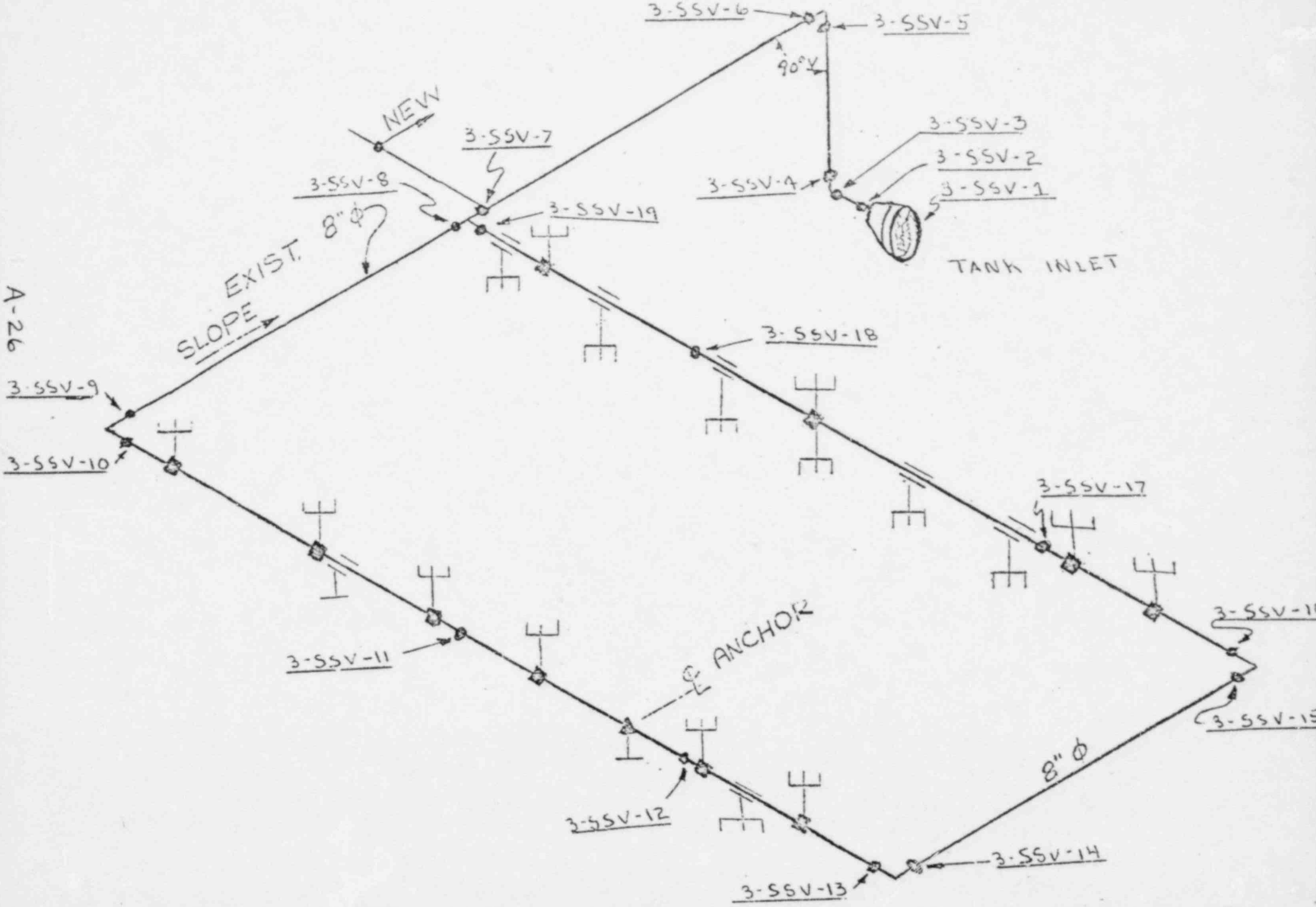
NORTH
SCRAM DISCHARGE VOLUME HEADER

FIGURE A-38
(continued)



SOUTH
SCRAM DISCHARGE VOLUME HEADER

FIGURE A-39



APPENDIX B

CLASS 2 WELD IDENTIFICATION FIGURES

APPENDIX B

CLASS II WELD IDENTIFICATION FIGURES

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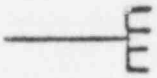
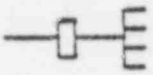
LEGEND OF SYMBOLS

BUTT WELD



PIPE RESTRAINT



SNUBBER

PIPE HANGER

WELDED PIPE SUPPORT OR
WELDED PIPE LUG

DIRECTION OF FLOW

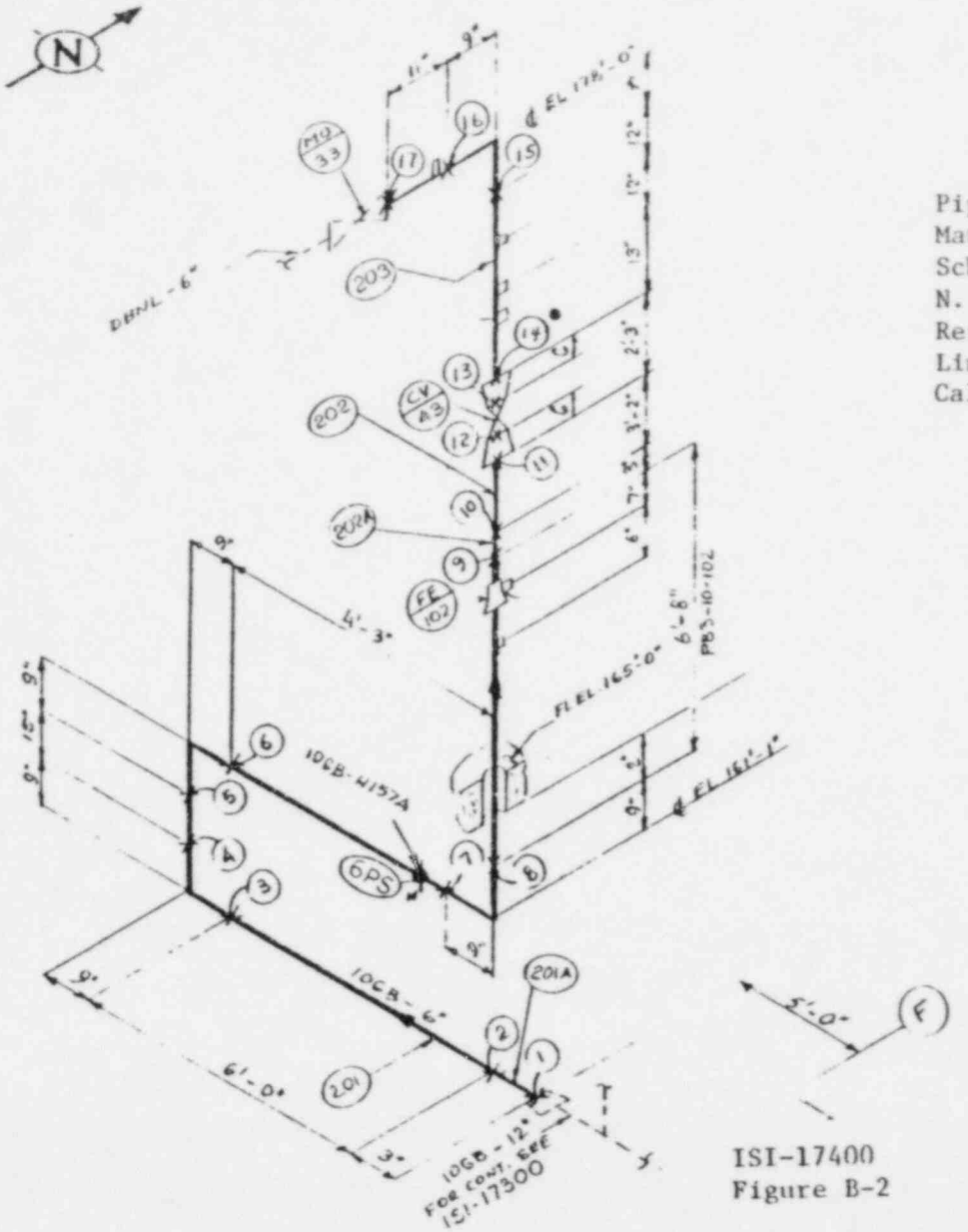
REDUCER

VALVE

ELBOW

TEE

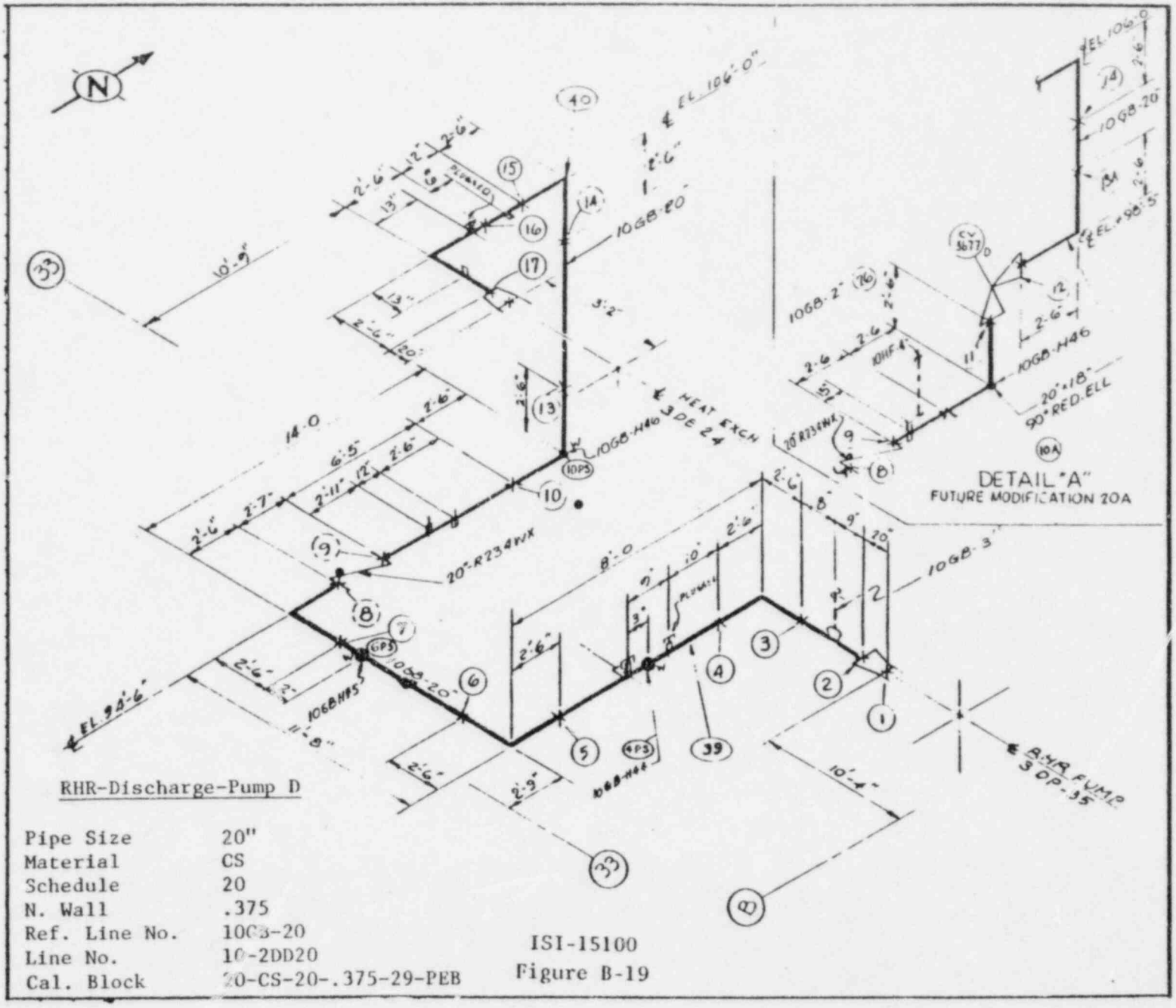
WELDS EXAMINED



RHR-Head Spray

Pipe Size	6"
Material	CS
Schedule	40
N. Wall	.280
Ref. Line No.	10GB-6
Line No.	10-2HS6
Cal. Block	6-CS-40-.280-25-PEB

ISI-17400
Figure B-2



Pipe Size	20"
Material	CS
Schedule	20
N. Wall	.375
Ref. Line No.	1003-20
Line No.	10-2DD20
Cal. Block	20-CS-20-.375-29-PEB

ISI-15100
Figure B-19

APPENDIX C

REACTOR PRESSURE VESSEL

INTERNAL COMPONENT DIAGRAMS

APPENDIX C

REACTOR PRESSURE VESSEL

INTERNAL COMPONENT FIGURES

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GUIDE ROD & UPPER BRACKET

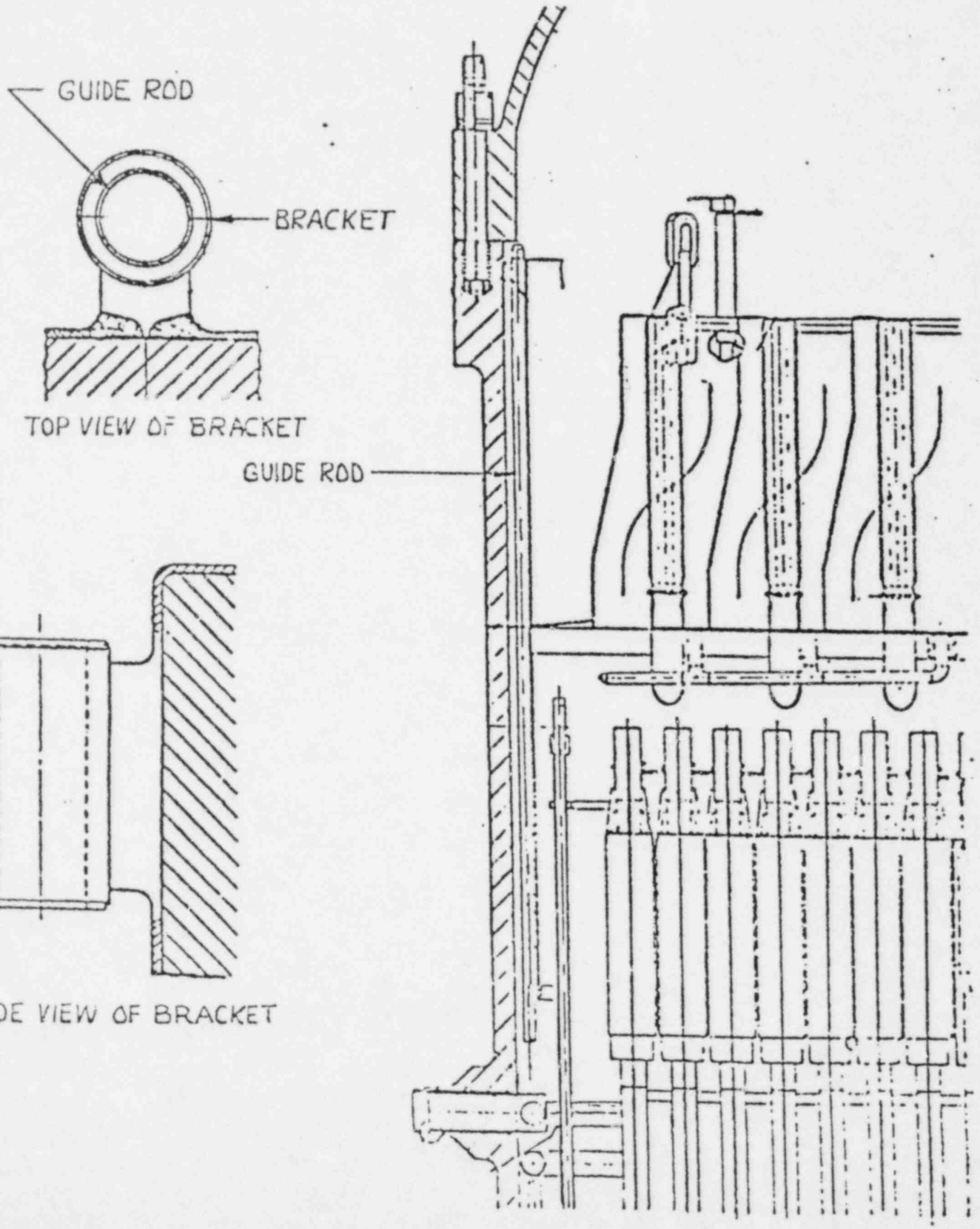
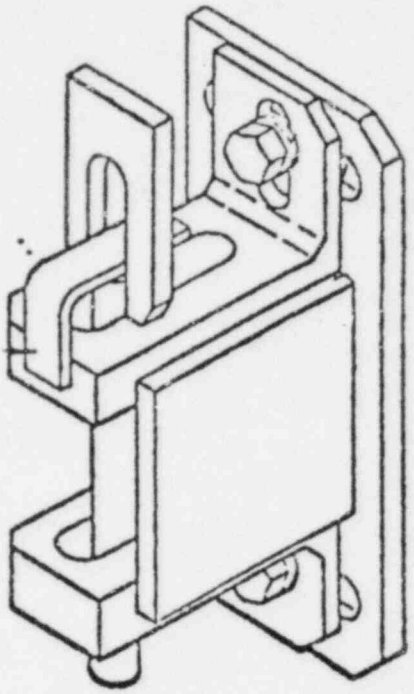
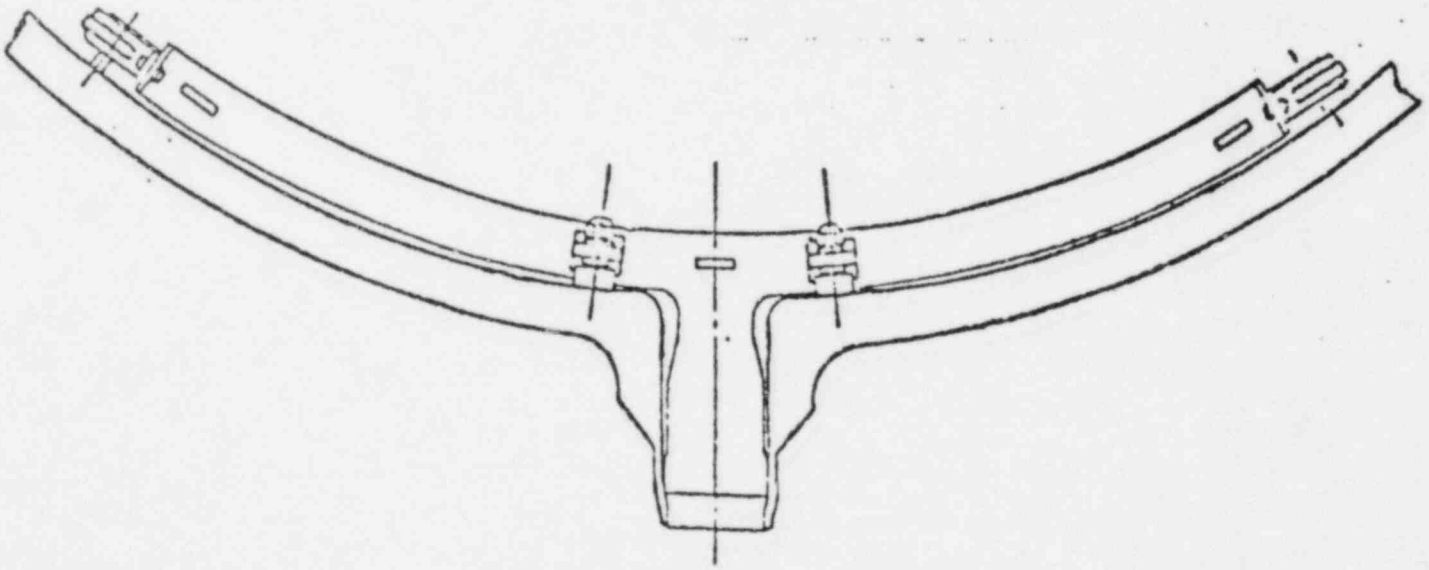


FIGURE C-1

FEEDWATER SPARGER & END BRACKETS



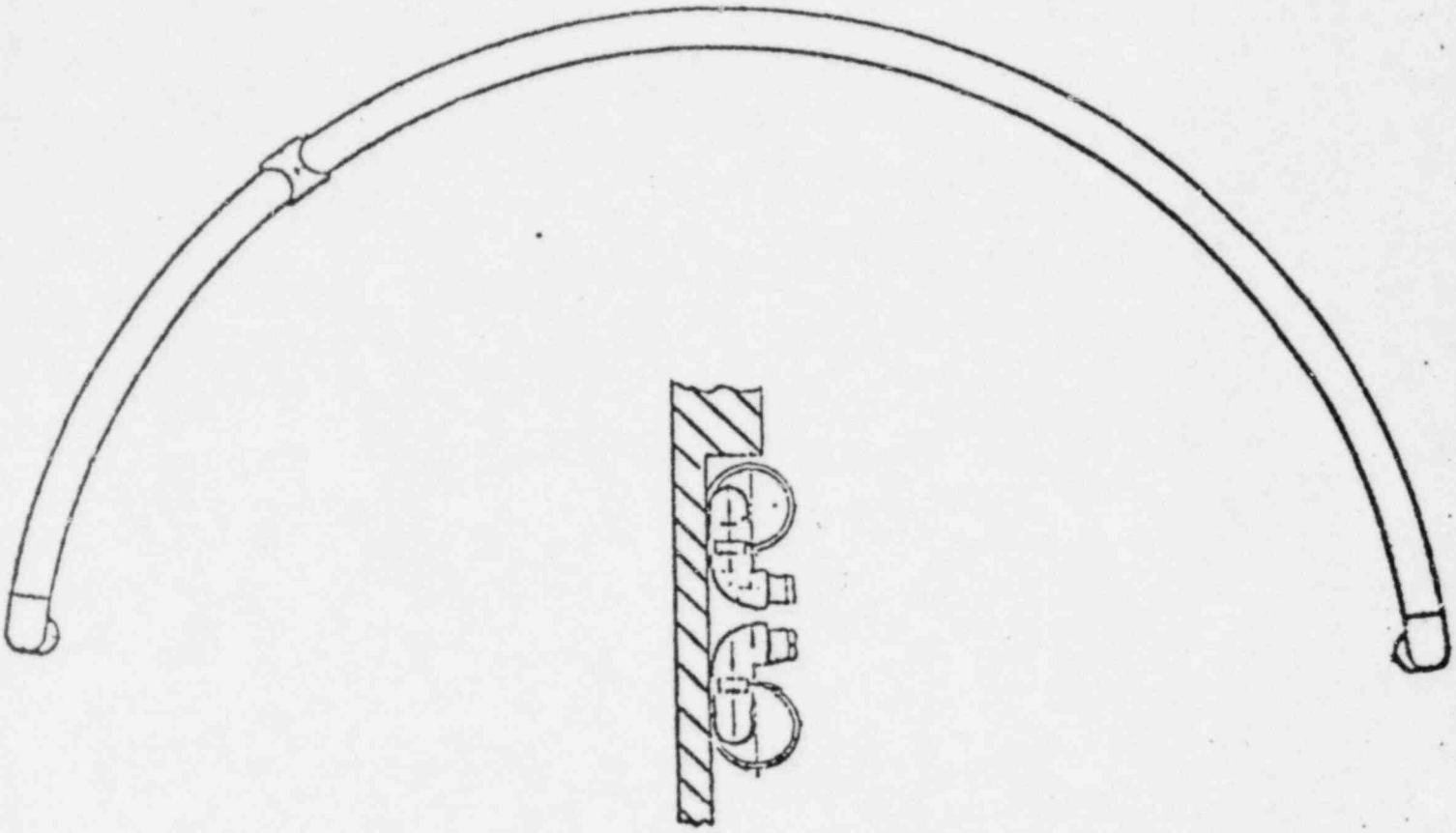
ENLARGED VIEW OF END BRACKET



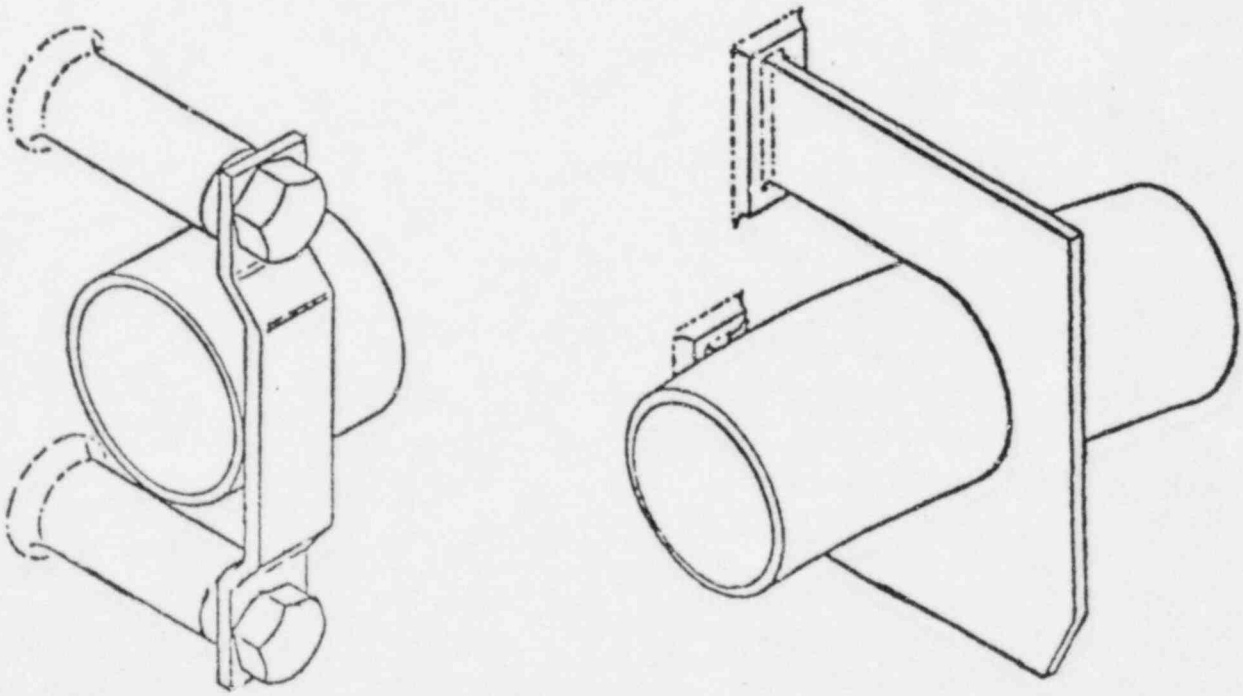
FEEDWATER SPARGER

FIGURE C-2

CORE SPRAY SPARGER & HEADER BRACKETS



CORE SPRAY SPARGER HEADER



HEADER BRACKETS

FIGURE C-3

TOP CORE GUIDE

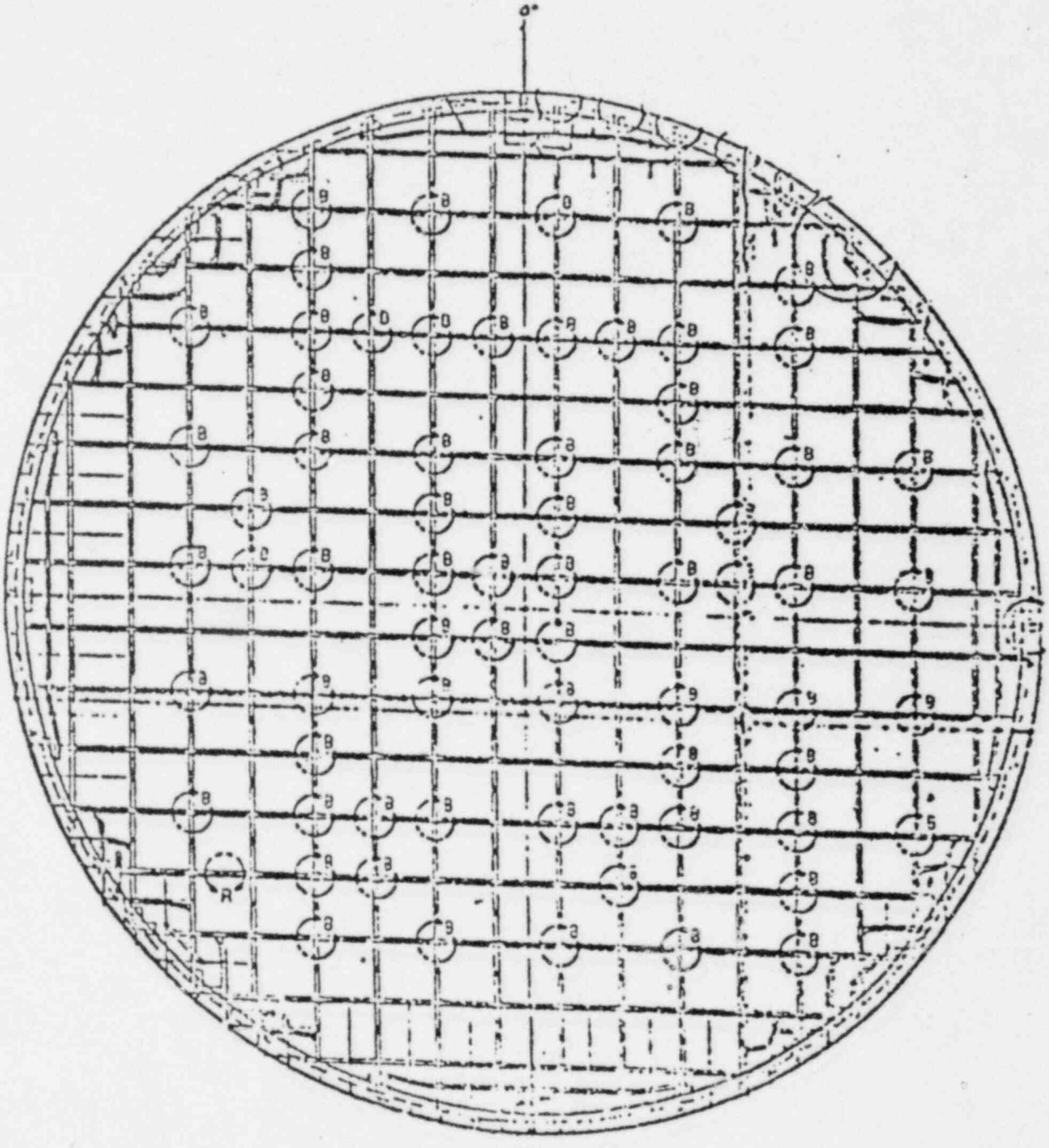
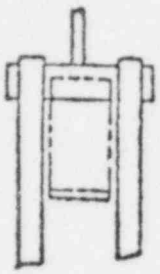
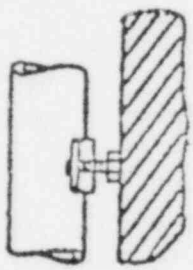


FIGURE C-4

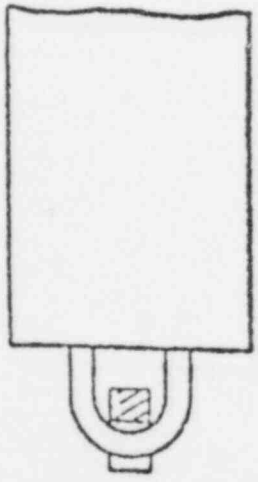
SURVEILLANCE SAMPLE HOLDER & RPV BRACKETS



ENLARGED VIEW C-C



ENLARGED VIEW "D"



ENLARGED VIEW B-B

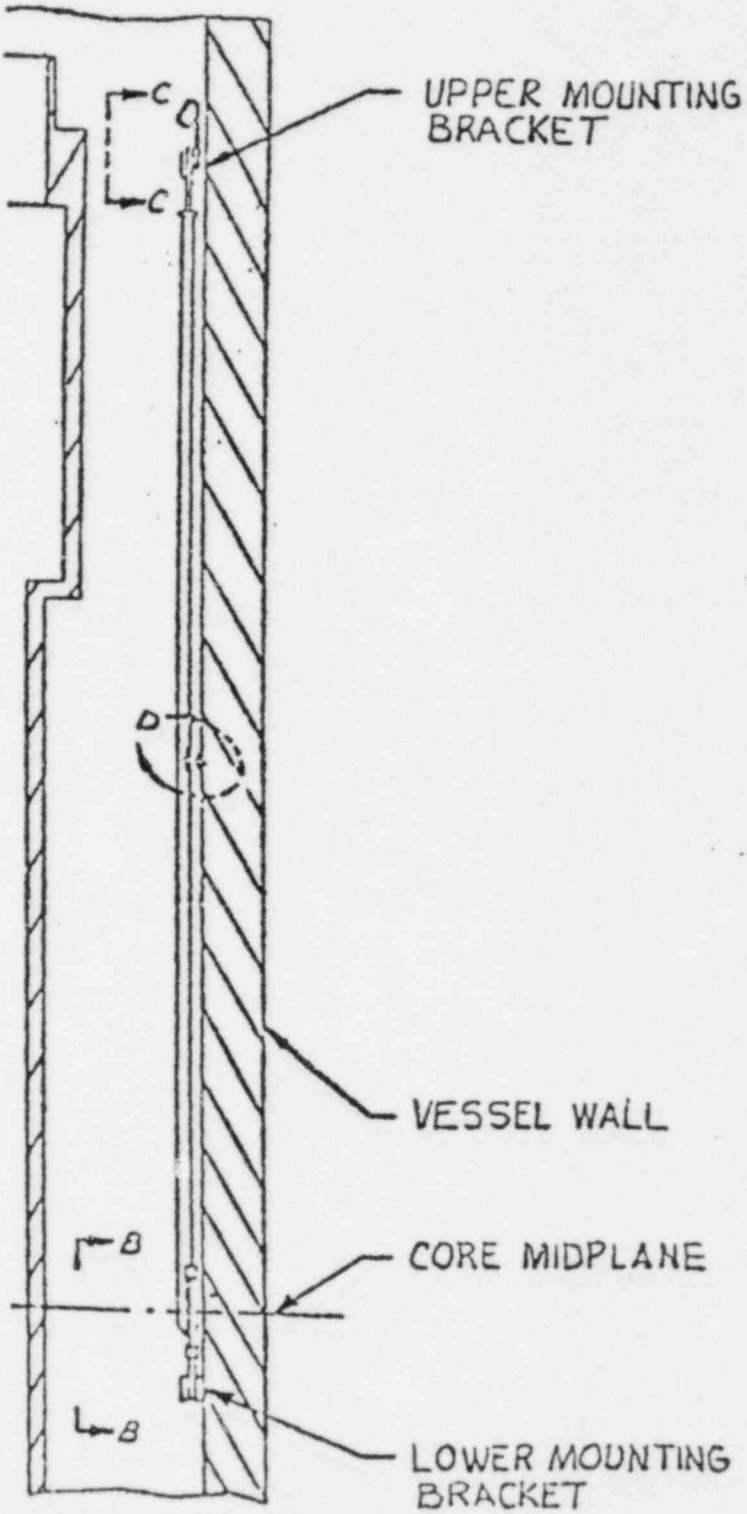


FIGURE C-5

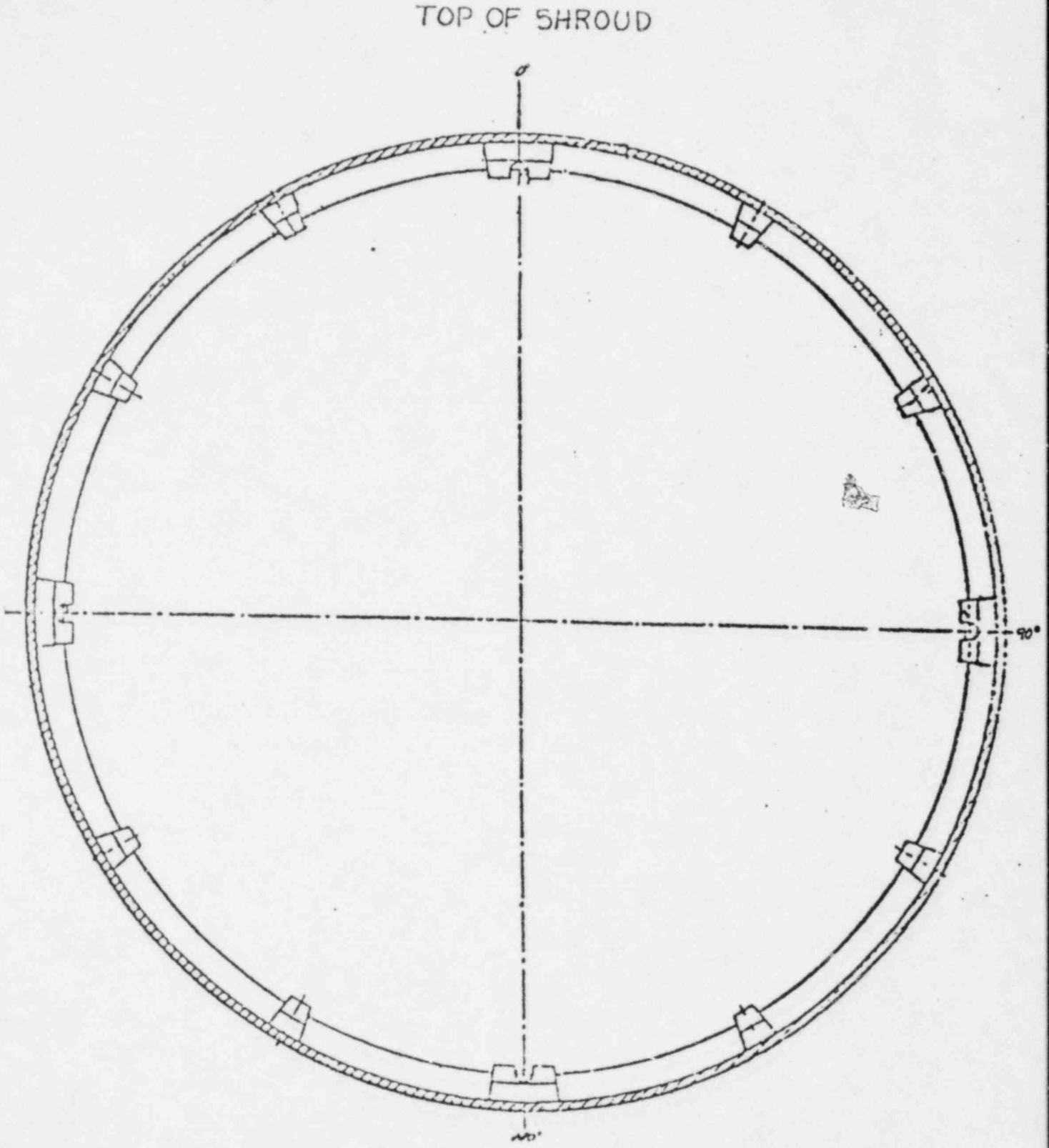


FIGURE C-6

JET PUMP & JET PUMP INSTRUMENTATION
INSPECTION DIAGRAM SHEET

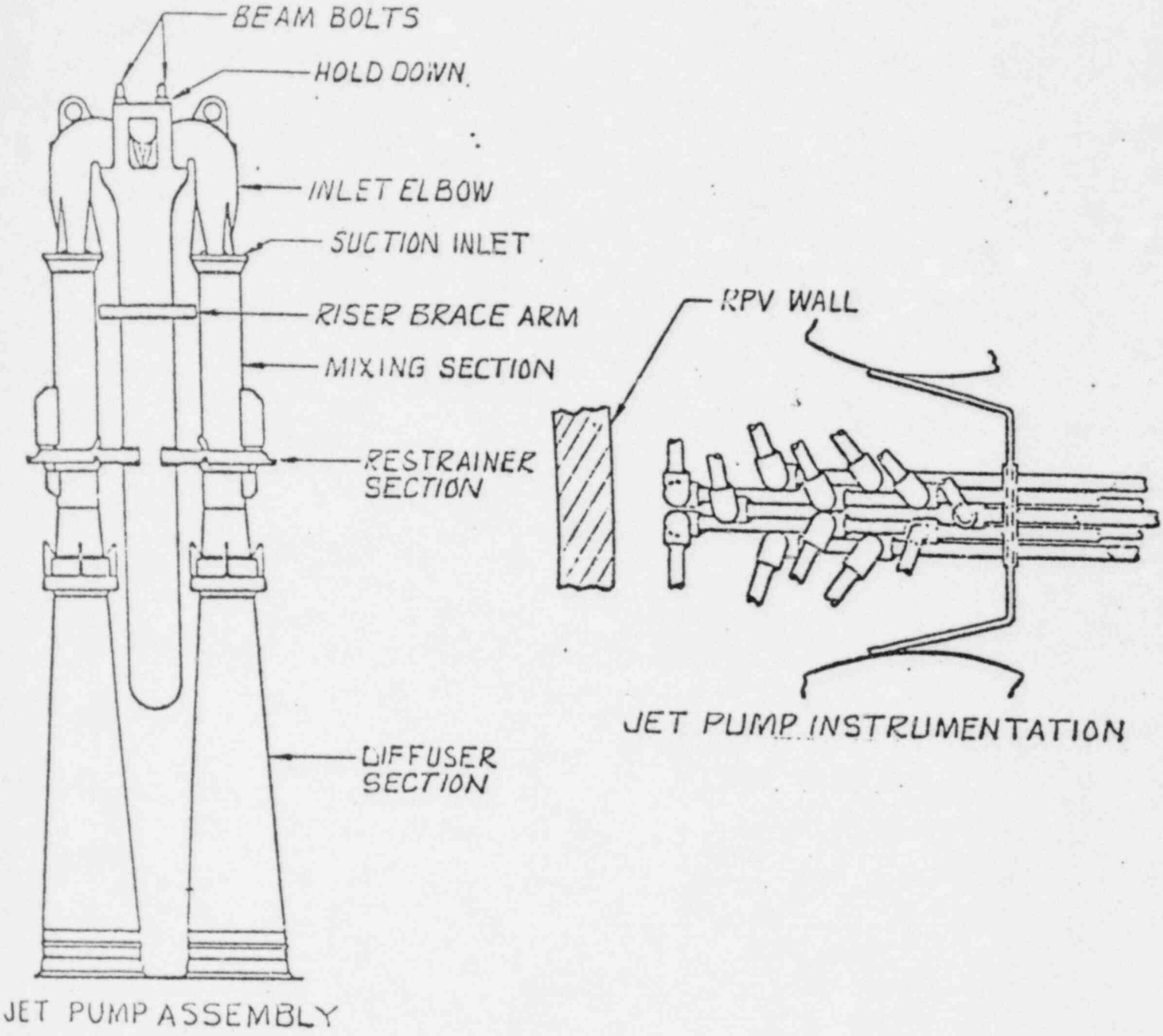
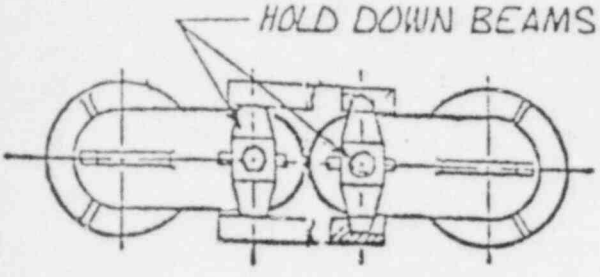
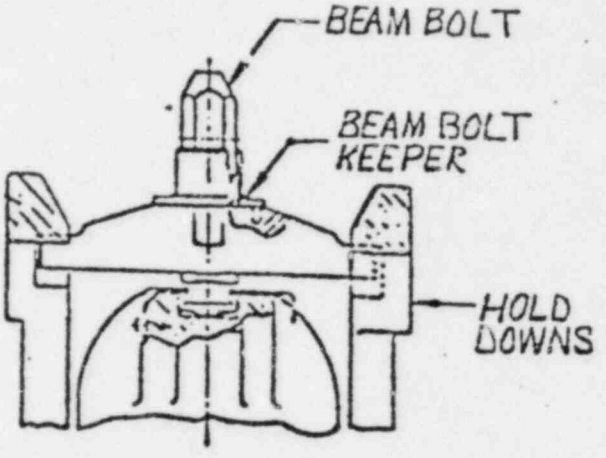


FIGURE C-7

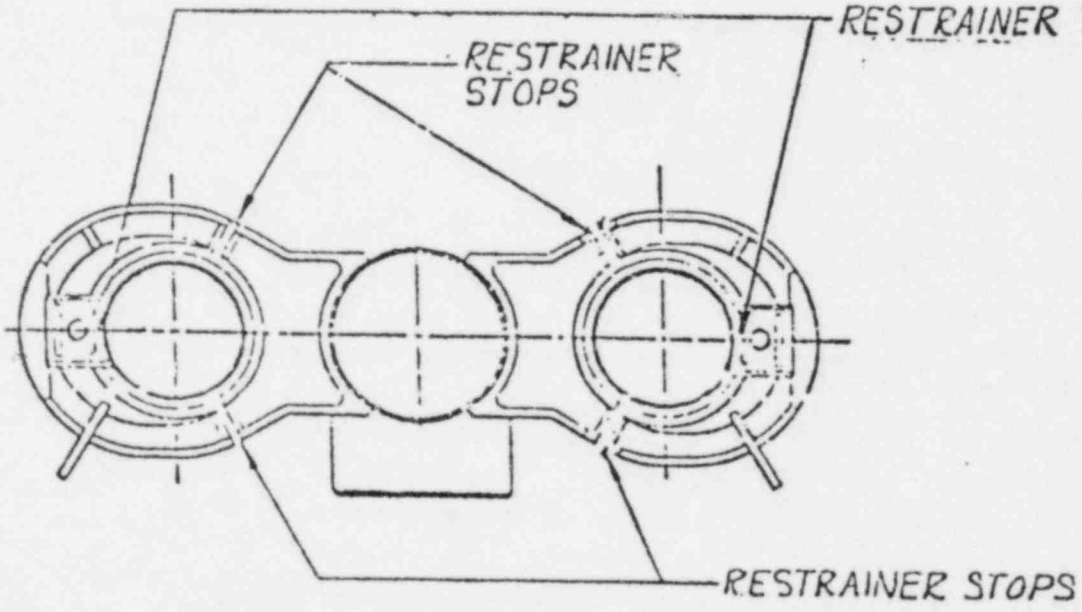
JET PUMP INSTRUMENTATION DIAGRAM SHEET



TOP VIEW OF HOLD DOWN BEAM



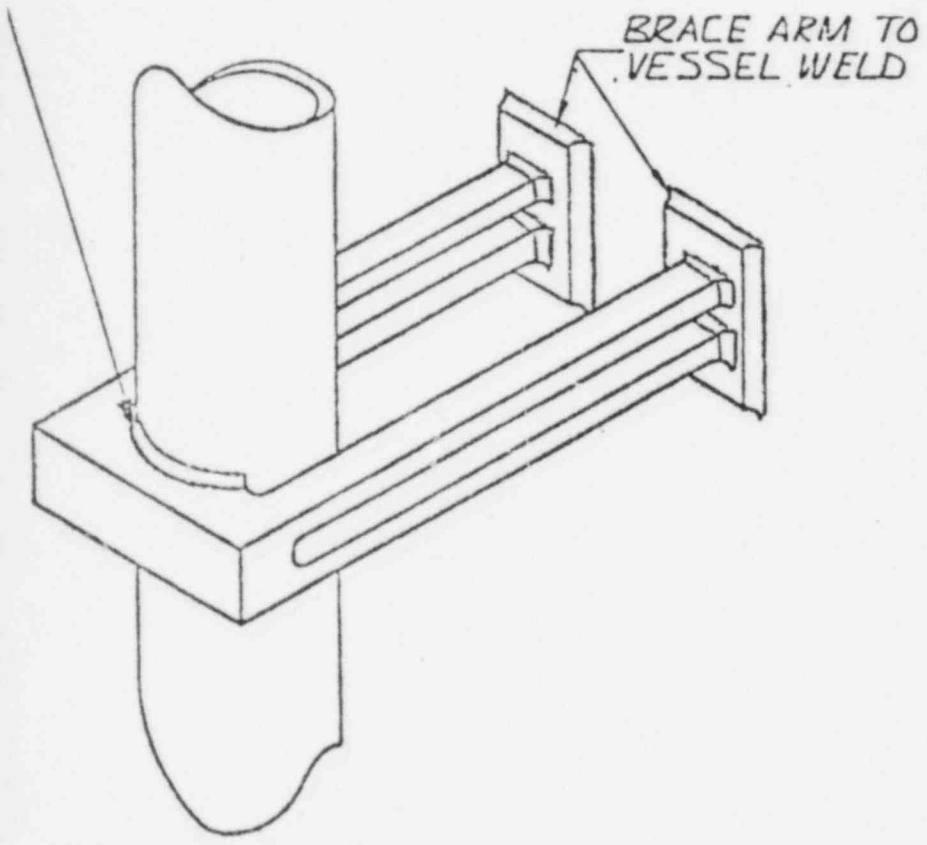
SIDE VIEW OF HOLD DOWN BEAM & BEAM BOLT KEEPER



TOP VIEW OF RESTRAINER SECTION

FIGURE C-8

JET PUMP RISER BRACE ARM DIAGRAM SHEET



ENLARGED VIEW OF BRACE ARM

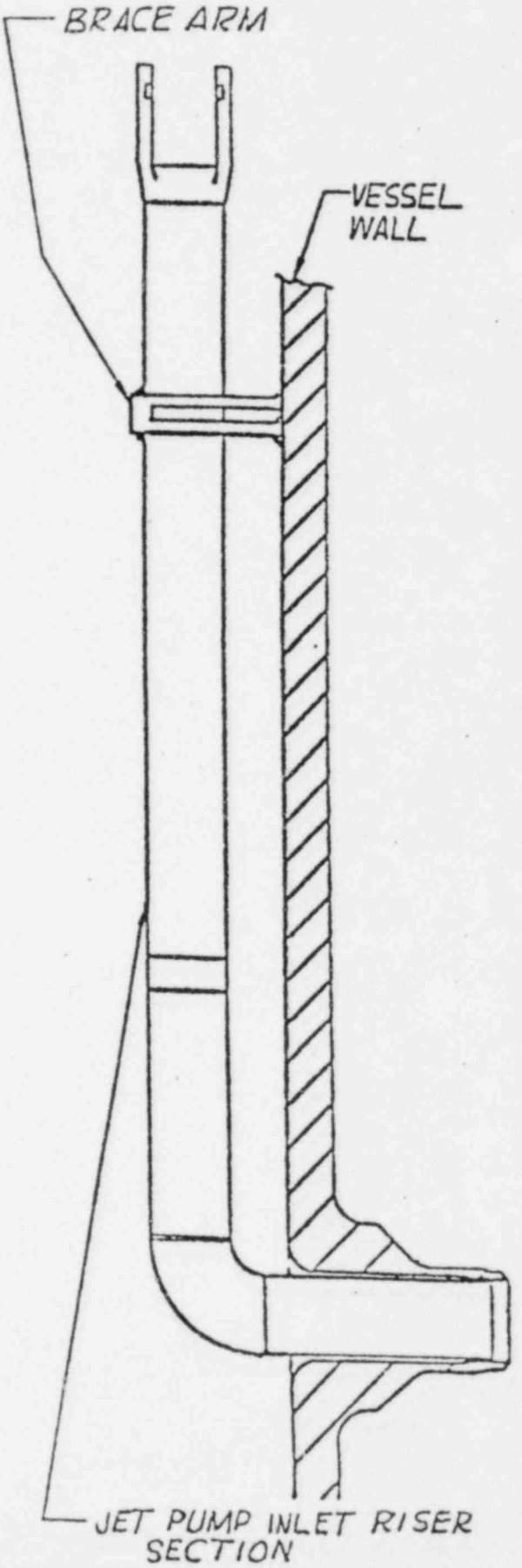


FIGURE C-9

DIFFERENTIAL PRESSURE & STANDBY LIQUID CONTROL

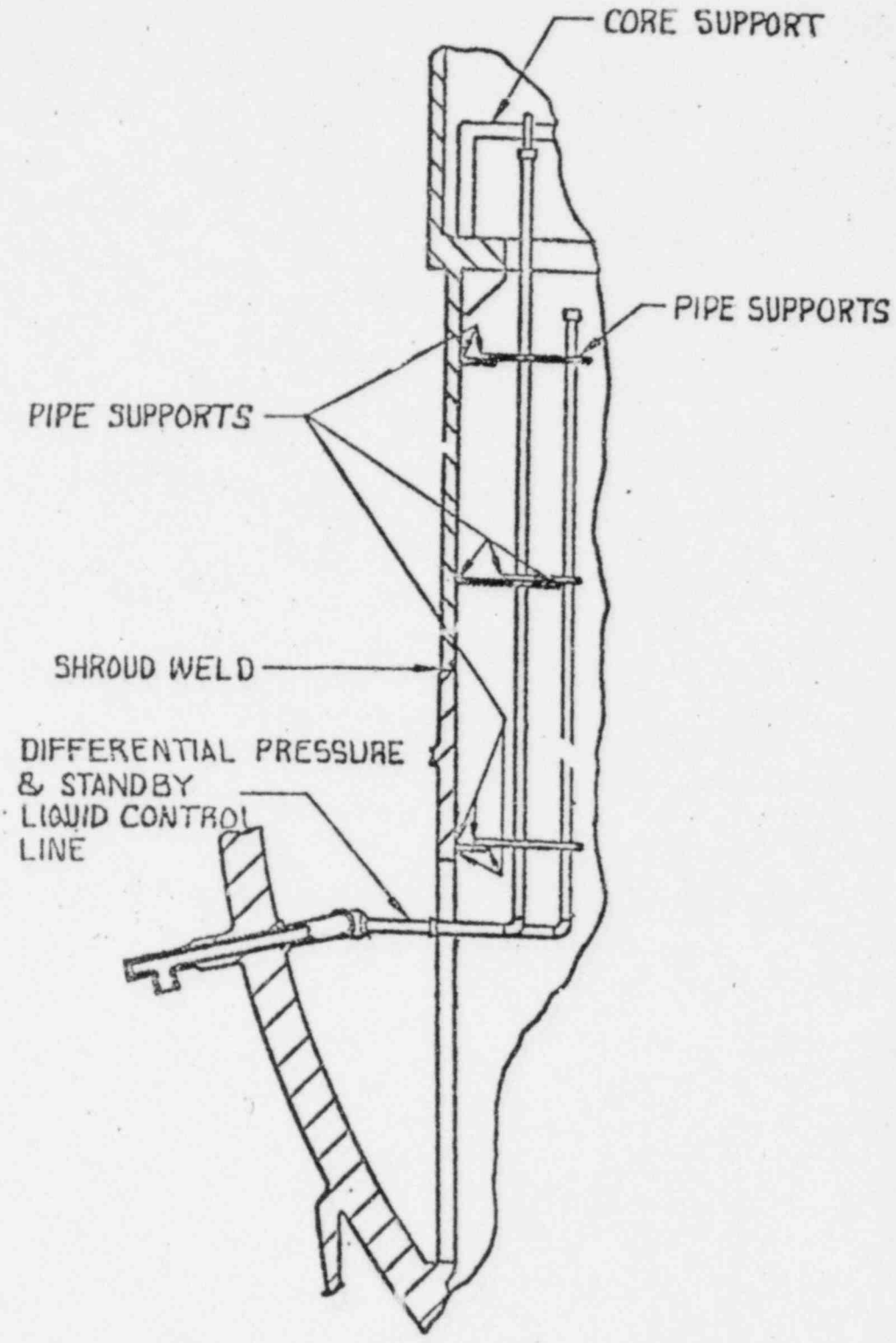


FIGURE C-10

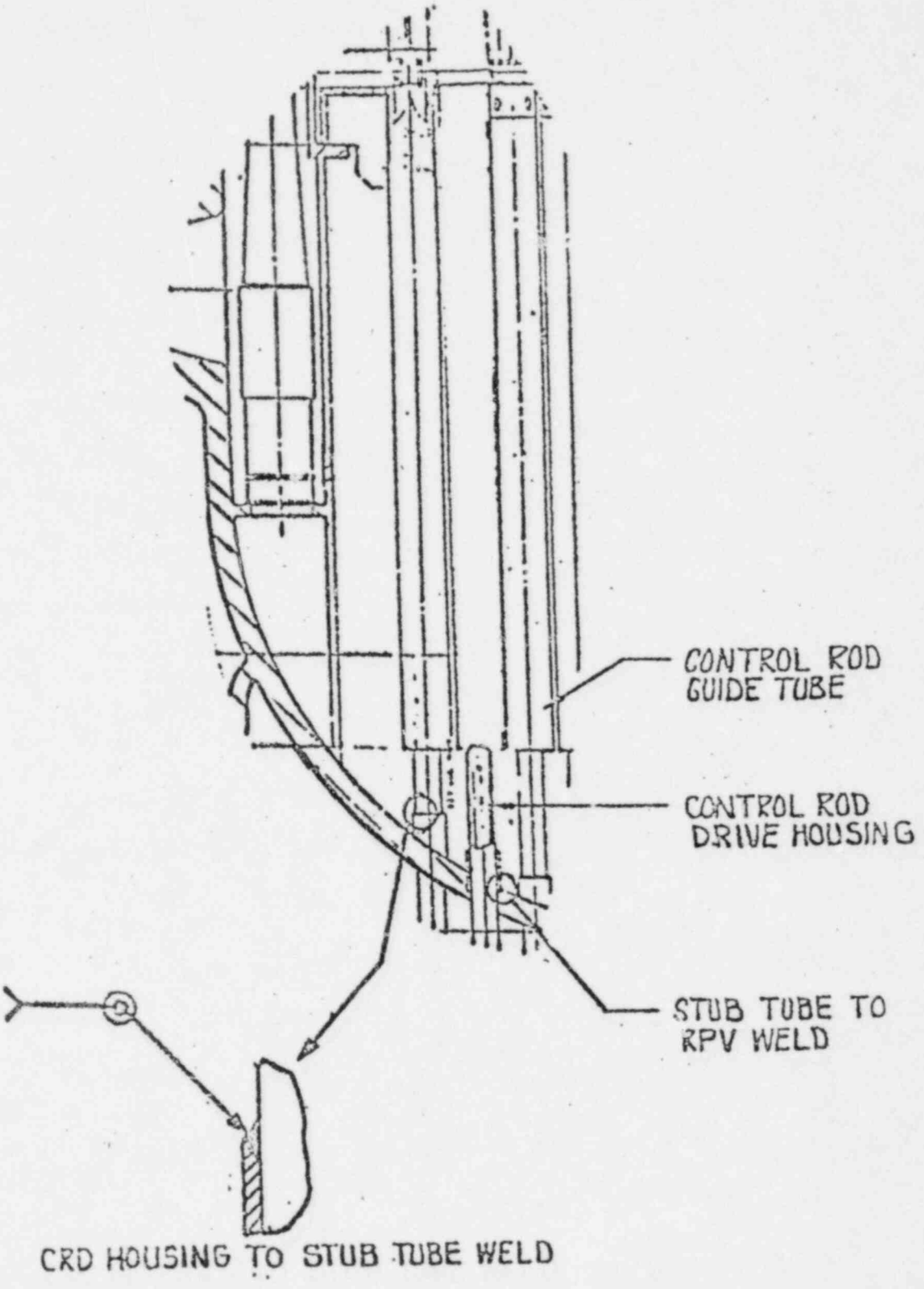

CONTROL ROD
GUIDE TUBE
CONTROL ROD
DRIVE HOUSING
STUB TUBE TO
RPV WELD
CRD HOUSING TO STUB TUBE WELD

FIGURE C-11

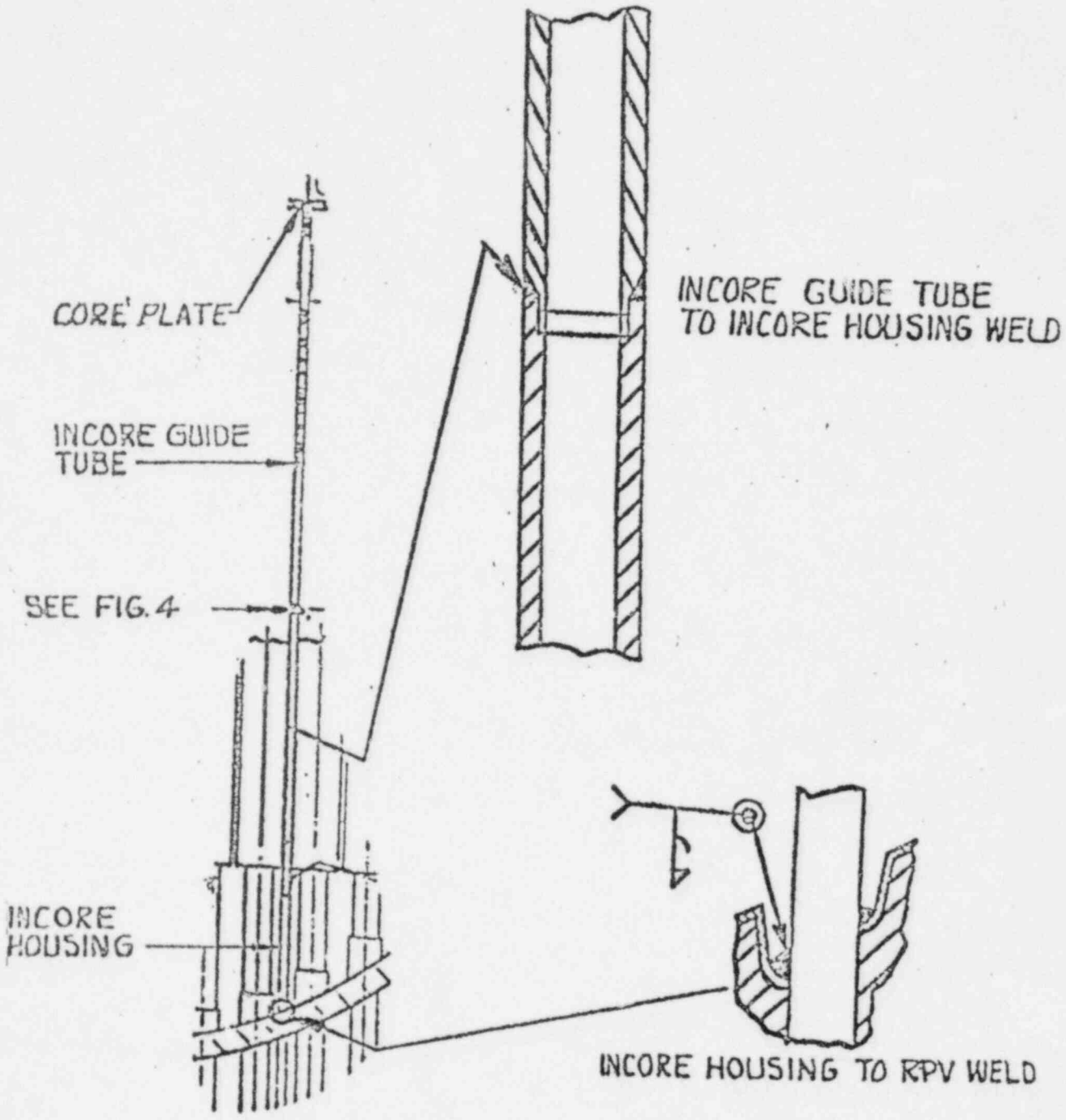
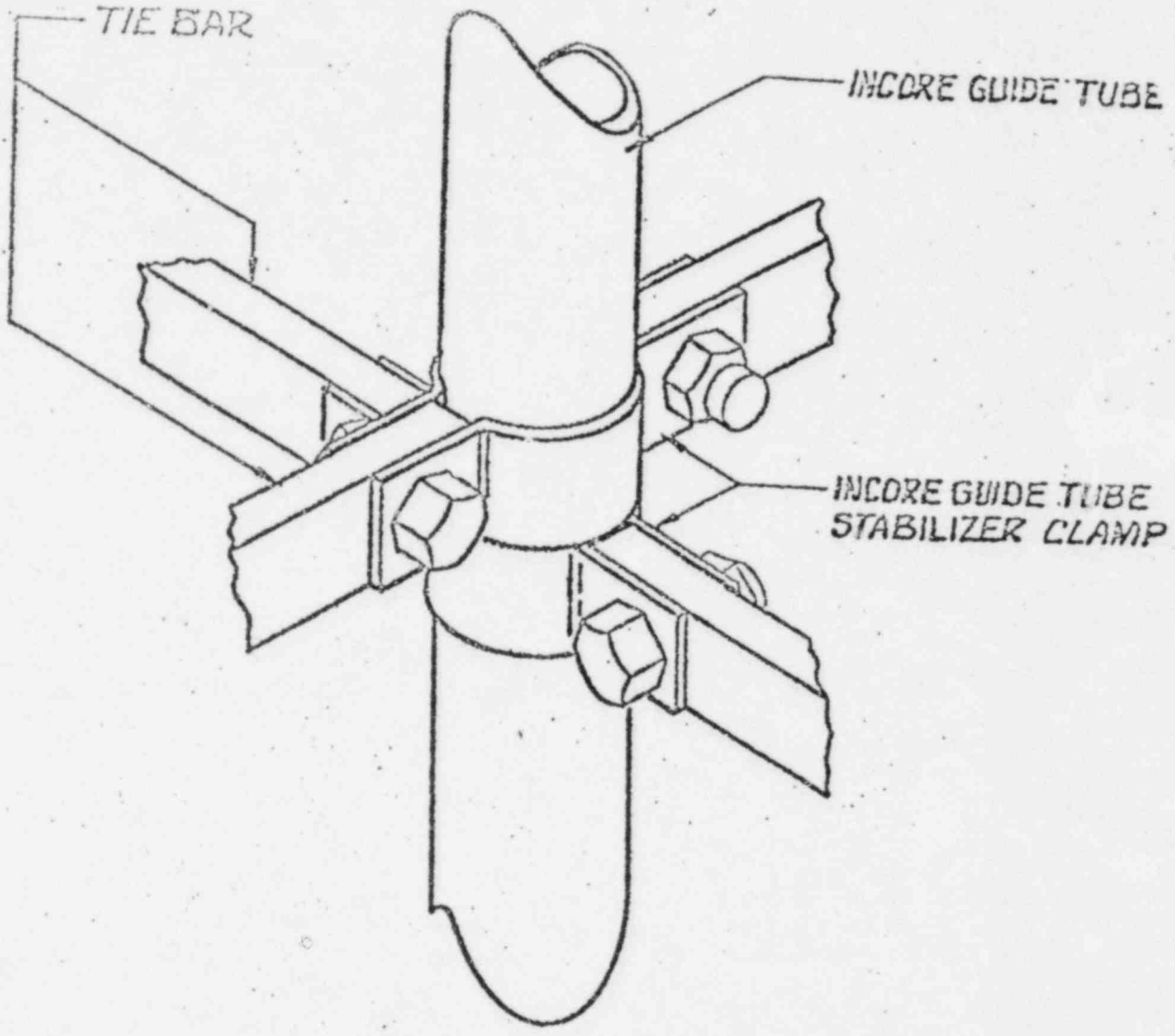

CORE PLATE
INCORE GUIDE TUBE
SEE FIG. 4
INCORE HOUSING
INCORE GUIDE TUBE TO INCORE HOUSING WELD
INCORE HOUSING TO RPV WELD

FIGURE C-12



INCORE GUIDE TUBE STABILIZERS

FIGURE C-13