ARKANSAS POWER & LIGHT COMPANY

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The content of ISI Technical Manual for Arkansas Nuclear One, Unit One, Volume 1 and Volume 2 are controlled and uncontrolled manuals. Controlled copies are stamped on the front cover sheet of Volume 1. Uncontrolled manuals are also stamped on the front cover sheet of Volume 1. Holders of controlled manuals will be provided with up to date revisions as they may be made and after required AP&L approval. Holders of uncontrolled manuals will not be provided with the latest revisions. Holders of controlled manuals will be required to return Engineering Form ENG-014 upon receipt of all revisions. If Engineering Form ENG-014 is not returned to the ISI Coordinator within six (6) months, the controlled manual will automatically become an uncontrolled manual and revisions will no longer be provided. Control of revisions are in accordance with AP&L Procedure 1032.07, "ISI Program Requirements," latest revision.

ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: ~~ISI PROGRAM APPROVAL~~ | FORM NO. ~~1032.07~~

REV. # 2 PC #

TITLE: I.S.I. Technical Manual For Arkansas Nuclear One - Unit 1

REVISION NO. 10

DESCRIPTION OF REVISION (ATTACH ADDITIONAL PAGES AS REQUIRED):

Changed NDE Boundry Iso's to Zone's Iso's.
Developed Zones for Service Water System - Class 3.
Developed Zones for Building Spray System - Class 2.
Changed Augmented examinations of Decay Heat Removal System to required (PT) examination - Class 2.
Selected different 25% of Class 1 welds for second interval examination.
Selected different 50% of Class 2 welds for second interval examination.
Changed NDE requirements to comply with Section XI, 1980 Edition (W80).
Added IWF requirements to program plan.

REASON FOR REVISION (ATTACH ADDITIONAL PAGES AS REQUIRED):

These revisions were made to comply with 10CFR-50.55(a)(g) and A.S.M.E. Section XI Inservice Inspection of Nuclear Power Plant Components, which requires the ISI Program to be upgraded to meet the requirements of that edition of the Code that is in effect one year earlier than the latest approved edition, which is the 1981 edition (W81 addenda).

REVIEWED BY: Don R. Payne — DATE: 3/14/84
ISI PROGRAM COORDINATOR

REVIEWED BY: Jerry N Ray — DATE: 4-4-84
QUALITY CONTROL

APPROVED BY: [signature] — DATE: 3/19/84
MECHANICAL ENGINEERING SUPERVISOR OR
PLANT ENGINEERING SUPERINTENDENT

APPROVED BY: * Thomas H. Cothern — DATE: 6/28/84
PLANT SAFETY COMMITTEE CHAIRMAN

APPROVED BY: [signature] — DATE: 6/28/84
ENGINEERING AND TECHNICAL SUPPORT MANAGER

* This documentation contains B&W proprietary information Prior to submittal to NRC, this should have a proprietary submittal disclaimer attached

TABLE OF CONTENTS

INTRODUCTION

The technical content of this manual describes the methods by which Arkansas Power & Light Company - Arkansas Nuclear One - fulfills the requirements of 10CFR50.55a for inservice inspection. In accordance with 10CFR50.55a(g) and based upon the Unit One commercial operating license date of 12/19/74, the applicable code for inservice inspection is the ASME B&PV Code, Division 1, Section XI, 1980 Edition including addenda through Winter 1980.

This manual does not address the inspection requirements of IWP, IWV or steam generator tubes, which is the responsibility of the IST Department. Nor are the inspection and testing requirements of hydraulic and mechanical snubbers addressed, since this is the responsibility of the Mechanical Maintenance Department.

Arkansas Power & Light Company will provide an uncontrolled copy of this manual, along with other requirements, to interested and qualified NDE Contractors. The NDE Contractors shall submit a proposal, which will address the availability of personnel, number of personnel which can be provided, approximate length of time to complete the required examinations and cost of the NDE services.

Arkansas Power & Light Company will notify the successful NDE Contractor, at which time a contract for the services will be completed.

The NDE Contractor shall furnish current NDE procedures covering the five (5) disciplines, to the ANO-ISI Coordinator for review and acceptance. These NDE procedures shall be maintained under a separate cover known as ISI Technical Manual, Volume 3

Upon arrival on site the NDE Contractor shall provide the ISI Coordinator with Certifications of Calibration for equipment, Certifications for materials such as couplant, penetrant, cleaner/ remover and developer. Certification of NDE

Personnel including up-to-date and current eye examinations. The NDE Contractor shall be subject to audits by A.P.&L.-QA and AIA.

The NDE Contractor shall provide the ISI Coordinator with the original NDE examination data report, along with ANO's examination work list, which shall indicate specific information required by this program.

The various manual sections detail examination requirements for a ten (10) year interval, special examination requirements, inventory and drawings of calibration standards, and relief requests.

The ISI Coordinator shall write the final examination report and complete the NIS-1 form.

The information contained herein is the property of Arkansas Power & Light Company and is provided to the NDE Contractor solely for their use in conjunction with the work scope performed under the required contract.

SPECIAL EXAMINATION REQUIREMENTS

The listing of Examinations as shown in Section 2 of this manual specify the examination method (s) to be used for each exam number.

Included in this section are drawings which depict the volume or area to which these examination methods are applied in order to satisfy the applicable Code and plant specification requirements.

ITEM No.	PARTS EXAMINED	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
B1.10	Shell Welds		
B1.11	Circumferential	IWB-2500-1	1-A
B1.12	Longitudinal	IWB-2500-2	2-A
B1.20	Head Welds	IWB-2500-3	3-A
B1.21	Circumferential		
B1.22	Meridional		
B1.30	Shell-to-Flange Weld	IWB-2500-4	4-A
B1.40	Head-to-Flange Weld	IWB-2500-5	5-A
B1.50	Repair Welds[1]*		
B1.51	Beltline region	IWB-2500-1 and 2	1-A & 2-A
	Pressurizer		
B2.10	Shell-to-Head Welds		
B2.11	Circumferential	IWB-2500-1	1-A
B2.12	Longitudinal	IWB-2500-2	2-A
B2.20	Head Welds	IWB-2500-3	3-A
B2.21	Circumferential		
B2.22	Meridional		
	Steam Generators (Primary Side)		
B2.30	Head Welds	IWB-2500-3	3-A
B2.31	Circumferential		
B2.32	Meridional		
B2.40	Tubesheet-to-Head Weld	IWB-2500-6	6-A
	Heat Exchangers (Primary Side)		
B2.50	Head Welds		
B2.51	Circumferential	IWB-2500-1,-3	1-A & 3-A
B2.52	Meridional	IWB-2500-3	3-A
B2.53	Longitudinal	IWB-2500-2	2-A
	Shell (Primary Side)		
B2.60	Tubesheet-to-Shell (or Head) Welds	IWB-2500-6	6-A
B2.61	Tubesheet-to-Shell Welds	IWB-2500-6	6-A

ITEM No.	PARTS EXAMINED	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
	Reactor Vessel		
B3.10	Nozzle-to-Vessel Welds	IWB-2500-74*	7-A
B3.20	Nozzle Inside Radius Section	IWB-2500-74*	
	Pressurizer		
B3.30	Nozzle-to-Vessel Welds	IWB-2500-74*	7-A
B3.40	Nozzle Inside Radius Section	IWB-2500-74*	
	Steam Generators (Primary Side)		
B3.50	Nozzle-to-Vessel Welds	IWB-2500-74*	7-A
B3.60	Nozzle Inside Radius Section	IWB-2500-74*	
	Heat Exchangers (Primary Side)		
B3.70	Nozzle-to-Vessel Welds	IWB-2500-74*	7-A
B3.80	Nozzle Inside Radius Section	IWB-2500-74*	
	Reactor Vessel		
B3.90	Nozzle-to-Vessel Welds	IWB-2500-75*	7-A
B3.100	Nozzle Inside Radius Section	IWB-2500-75*	
	Pressurizer		
B3.110	Nozzle-to-Vessel Welds	IWB-2500-75*	7-A
B3.120	Nozzle Inside Radius Section	IWB-2500-75*	
	Steam Generators (Primary Side)		
B3.130	Nozzle-to-Vessel Welds	IWB-2500-75*	7-A
B3.140	Nozzle Inside Radius Section	IWB-2500-75*	
	Heat Exchangers (Primary Side)		
B3.150	Nozzle-to-Vessel Welds	IWB-2500-75*	7-A
B3.160	Nozzle Inside Radius Section	IWB-2500-75*	

* The digit followed by this symbol "*" is a superscript digit.

ITEM No.	PARTS EXAMINED	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
	Reactor Vessel		
B5.10	Nominal Pipe Size ≥ 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	8-A
B5.20	Nominal Pipe Size < 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	8-A
B5.30	Nozzle-to-Safe End Socket Welds	IWB-2500-8	8-A
	Pressurizer		
B5.40	Nominal Pipe Size ≥ 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	8-A
B5.50	Nominal Pipe Size < 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	8-A
B5.60	Nozzle-to-Safe End Socket Welds	IWB-2500-8	8-A
	Steam Generator		
B5.70	Nominal Pipe Size ≥ 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	8-A
B5.80	Nominal Pipe size < 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	8-A
B5.90	Nozzle-to-Safe End Socket Welds	IWB-2500-8	8-A
	Heat Exchangers		
B5.100	Nominal Pipe Size ≥ 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	8-A
B5.110	Nominal Pipe Size < 4 in. Nozzle-to-Safe End Butt Welds	IWB-2500-8	8-A
B5.120	Nozzle-to-Safe End Socket Welds	IWB-2500-8	8-A
	Piping		
B5.130	Nominal Pipe Size ≥ 4 in. Dissimilar Metal Butt Welds	IWB-2500-8	8-A
B5.140	Nominal Pipe Size < 4 in. Dissimilar Metal Butt Welds	IWB-2500-8	8-A
B5.150	Dissimilar Metal Socket Welds	IWB-2500-8	8-A
	Reactor Vessel		
B6.10	Closure Head Nuts		
B6.20	Closure Studs, in place	IWB-2500-12	12-A
B6.30	Closure Studs, when removed	IWB-2500-12	
B6.40	Threads in Flange	IWB-2500-12	12-A
B6.50	Closure Washers, Bushings		
	Pressurizer		
B6.60	Bolts and Studs	IWB-2500-12	12-A
B6.70	Flange Surface4*, when connection disassembled		
B6.80	Nuts, Bushings, and Washers		
	Steam Generators		
B6.90	Bolts and Studs	IWB-2500-12	12-A
B6.100	Flange Surface4*, when connection disassembled		
B6.110	Nuts, Bushings and Washers		
	Heat Exchangers		
B6.120	Bolts and Studs	IWB-2500-12	12-A
B6.130	Flange Surface4*, when connection disassembled		
B6.140	Nuts, Bushings, and Washers		

* The digit followed by this symbol "*" is a superscript digit.

ITEM No.	PARTS EXAMINED1*	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
	Piping		
B6.150	Bolts and Studs	IWB-2500-12	12-A
B6.160	Flange Surface4*, when connection disassembled		
B6.170	Nuts, Bushings, and Washers		
	Pumps		
B6.180	Bolts and Studs	IWB-2500-12	12-A
B6.190	Flange Surface4*, when connection disassembled		
B6.200	Nuts, Bushings, and Washers		
	Valves		
B6.210	Bolts and Studs	IWB-2500-12	12-A
B6.220	Flange Surface4*, when connection disassembled		
B6.230	Nuts, Bushings, and Washers		
	Reactor Vessel		
B8.10	Integrally Welded Attachments	IWB-2500-13, -14 and -15	13, 14 & 15-A
	Pressurizer		
B8.20	Integrally Welded Attachments	IWB-2500-13, -14 and -15	13, 14 & 15-A
	Steam Generator		
B8.30	Integrally Welded Attachments	IWB-2500-13, -14 and -15	13, 14 & 15-A
	Heat Exchangers		
B8.40	Integrally Welded Attachments	IWB-2500-13, -14 and -15	13, 14 & 15-A
B9.10	Nominal Pipe Size ≥ 4 in.	IWB-2500-8	8-A
B9.11	Circumferential Welds		
B9.12	Longitudinal Welds		
B9.20	Nominal Pipe Size < 4 in.	IWB-2500-8	8-A
B9.21	Circumferential Welds		
B9.22	Longitudinal Welds		
B9.30	Branch Pipe Connection Welds	IWB-2500-9, -10 and -11	9, 10 & 11-A
B9.31	Nominal Pipe Size ≥ 4 in.		
B9.32	Nominal Pipe Size < 4 in.		
B9.40	Socket Welds	IWB-2500-8	8-A

ITEM No.	PARTS EXAMINED1*	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
	Piping		
B10.10	Integrally Welded Attachments	IWB-2500-13, -14 and -15	13, 14 & 15-A
	Pumps		
B10.20	Integrally Welded Attachments	IWB-2500-13, -14 and -15	13, 14 & 15-A
	Valves		
B10.30	Integrally Welded Attachments	IWB-2500-13, -14 and -15	13, 14 & 15-A
	Pumps		
B12.10	Pump Casing Welds	IWB-2500-16	16-A
B12.20	Pump Casing		
	Valves		
B12.30	Valves, Nominal Pipe Size < 4 in. Valve Body Welds		17-A
B12.40	Valves, Nominal Pipe Size ≥ 4 in. Valve Body Welds	IWB-2500-17	17-A
B12.50	Valve Body, Exceeding 4 in. Nominal Pipe Size		
	Reactor Vessel		
B14.10	Welds in CRD Housing	IWB-2500-18	18-A

* The digit followed by this symbol "*" is a superscript digit.

ITEM No.	PARTS EXAMINED	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
C1.10	Shell Circumferential Welds	IWC-2500-1	1-B
C1.20	Head Circumferential Welds	IWC-2500-1	1-B
C1.30	Tubesheet-to-Shell Weld	IWC-2500-2	2-B
C2.10	Nozzles in Vessels ≤ ½ in. Nominal Thickness		
C2.11	Nozzle-to-Shell (or Head) Weld	IWC-2500-3	3-B
C2.20	Nozzles Without Reinforcing Plate in Vessels > ½ in. Nominal Thickness		
C2.21	Nozzle-to-Shell (or Head) Weld	IWC-2500-4(a) or (b)	4-B
C2.22	Nozzle Inside Radius Section	IWC-2500-4(a) or (b)	4-B
C2.30	Nozzles With Reinforcing Plate in Vessels > ½ in. Nominal Thickness		
C2.31	Reinforcing Plate Welds to Nozzle and Vessel	IWC-2500-4(c)	4-B
C2.32	Nozzle-to-Shell (or Head) Welds inside of Vessel Accessible	IWC-2500-4(c)	4-B
	Inside of Vessel Inaccessible	.	
	Pressure Vessels		
C3.10	Integrally Welded Attachments1*	IWC-2500-5	5-B
	Piping		
C3.20	Integrally Welded Attachments1*	IWC-2500-5	5-B
	Pumps		
C3.30	Integrally Welded Attachments1*	IWC-2500-5	5-B
	Valves		
C3.40	Integrally Welded Attachments1*	IWC-2500-5	5-B

ITEM No.	PARTS EXAMINED	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
	Pressure Vessels		
C4.10	Bolts and Studs	IWC-2500-6	6-B
	Piping		
C4.20	Bolts and Studs	IWC-2500-6	6-B
	Pumps		
C4.30	Bolts and Studs	IWC-2500-6	6-B
	Valves		
C4.40	Bolts and Studs	IWC-2500-6	6-B
C5.10	Piping Welds ≤ ½ in. Nominal Wall Thickness		
C5.11	Circumferential Weld	IWC-2500-7	7-B
C5.12	Longitudinal Weld	IWC-2500-7	7-B
C5.20	Piping Welds > ½ in. Nominal Wall Thickness		
C5.21	Circumferential Weld	IWC-2500-7	7-B
C5.22	Longitudinal Weld	IWC-2500-7	7-B
C5.30	Pipe Branch Connection > 4 in. Nominal Brnach Pipe Size		
C5.31	Circumferential Weld	IWC-2500-9 to -13 inclusive	9-B to 13-B
C5.32	Longitudinal Weld	IWC-2500-12 and -13	12-B & 13-B
	Pumps		
C6.10	Pump Casing Welds2*	IWC-2500-8	8-B
	Valves		
C6.20	Valve Body Welds2*	IWC-2500-8	8-B

* The digit followed by this symbol "*" is a superscript digit.

CLASS 3

ITEM No.	PARTS EXAMINED	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
D1.20	Integral Attachment-- Component Supports and Restraints3*	IWD-2500-1	1-D
D1.30	Integral Attachment-- Mechanical and Hydraulic Snubbers3*	IWD-2500-1	1-D
D1.40	Integral Attachment-- Spring Type Support3*	IWD-2500-1	1-D
D1.50	Integral Attachment-- Constant Load Type Supports3*	IWD-2500-1	1-D
D1.60	Integral Attachment-- Shock Absorbers3*	IWD-2500-1	1-D

ITEM No.	PARTS EXAMINED	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
D2.20	Integrall Attachment-- Component Supports and Restraints3*	IWD-2500-1	1-D
D2.30	Integrall Attachment-- Mechanical and Hydraulic Snubbers3*	IWD-2500-1	1-D
D2.40	Integrall Attachment-- Spring Type Supports3*	IWD-2500-1	1-D
D2.50	Integrall Attachment-- Constant Load Type Supports3*	IWD-2500-1	1-D
D2.60	Integrall Attachment-- Shock Absorbers3*	IWD-2500-1	1-D

* The digit followed by this symbol "*" is a superscript digit,

SYSTEMS IN SUPPORT OF RESIDUAL HEAT
REMOVAL FROM SPENT FUEL STROAGE POOL

CLASS 3

ITEM No.	PARTS EXAMINED	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
D3.20	Integral Attachment-- Component Supports and Restraints3*	IWD-2500-1	1-D
D3.30	Integral Attachment-- Mechanical and Hydraulic Snubbers3*	IWD-2500-1	1-D
D3.40	Integral Attachment-- Spring Type Supports3*	IWD-2500-1	1-D
D3.50	Integral Attachment-- Constant Load Type Supports3*	IWD-2500-1	1-D
D3.60	Integral Attachment-- Shock Absorbers3*	IWD-2500-1	1-D

* The digit followed by this symbol "*" is a superscript digit.

ITEM No.	PARTS EXAMINED	EXAMINATION REQUIREMENTS/ FIG.No.	PAGE No.
F1.10	Mechanical connections to pressure retaining components and building structure	IWF-1300-1	1-F
F1.20	Weld connections to building structure	IWF-1300-1	1-F
F1.30	Weld and mechanical connections at intermediate joints in multiconnected integral and nonintegral supports	IWF-1300-1	1-F
F1.40	Component displacement settings of guides and stops, misalignment of supports, assembly of support items	IWF-1300-1	1-F
	LINEAR TYPE SUPPORTS		
F2.10	Mechanical connections to pressure retaining components and building structure	IWF-1300-1	1-F
F2.20	Weld connections to building structure	IWF-1300-1	1-F
F2.30	Weld and mechanical connections at intermediate joints in multiconnected integral and nonintegral supports	IWF-1300-1	1-F
F2.40	Component displacement settings of guides and stops, misalignment of supports, assembly of support items	IWF-1300-1	1-F
F3.10	Mechanical connection to pressure retaining components and building structure	IWF-1300-1	1-F
F3.20	Weld connections to building structure	IWF-1300-1	1-F
F3.30	Weld and mechanical connections at intermediate joints in multiconnected integral and nonintegral supports	IWF-1300-1	1-F
F3.40	Component of displacement settings of guides and stops, misalignment of supports, assembly of support items	IWF-1300-1	1-F
F3.50	Spring type supports, constant load type supports, shock absorbers, hydraulic and mechanical type snubbers	IWF-1300-1	1-F

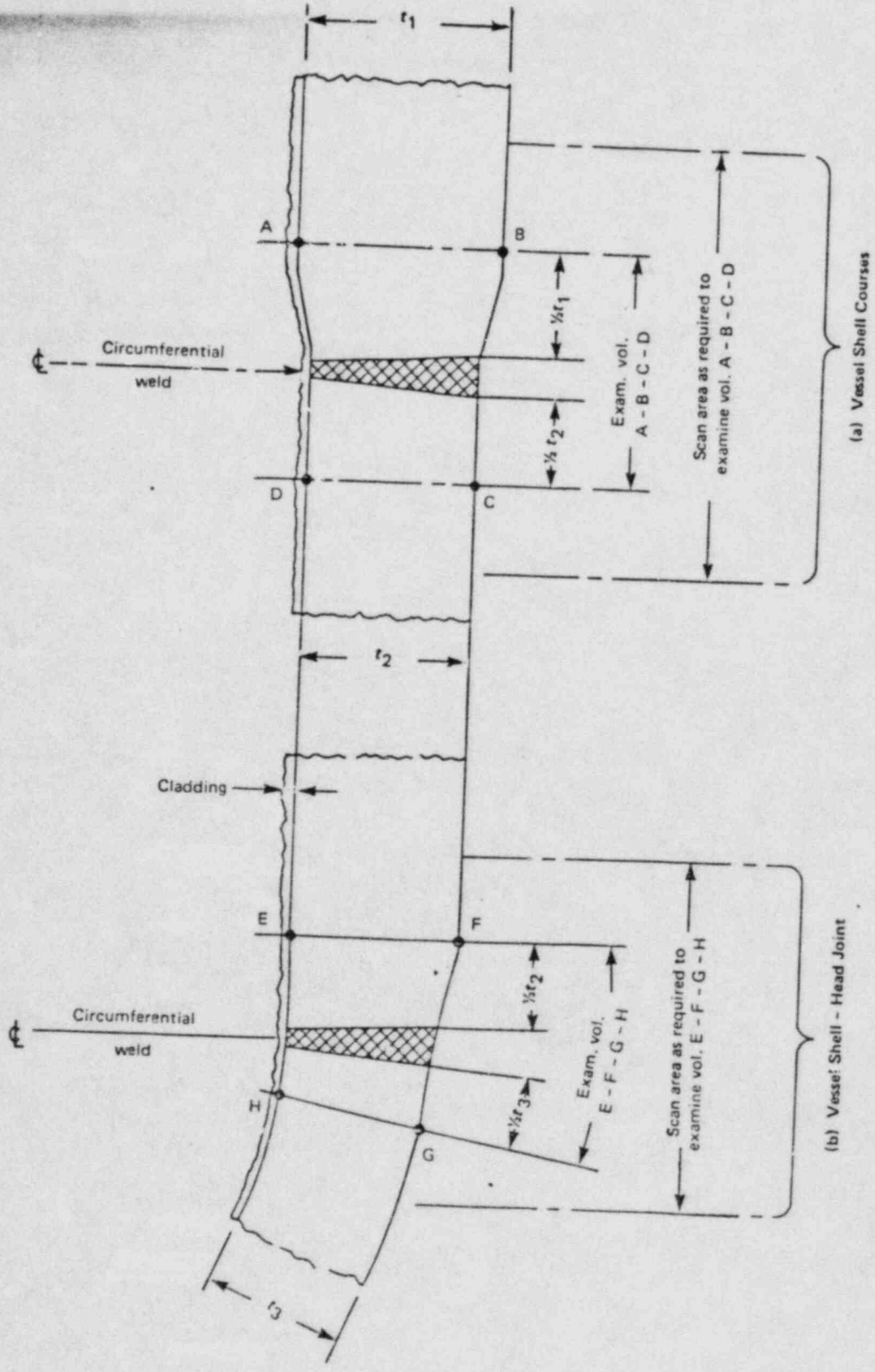


FIG. IWB-2500-1 VESSEL SHELL CIRCUMFERENTIAL WELD JOINTS

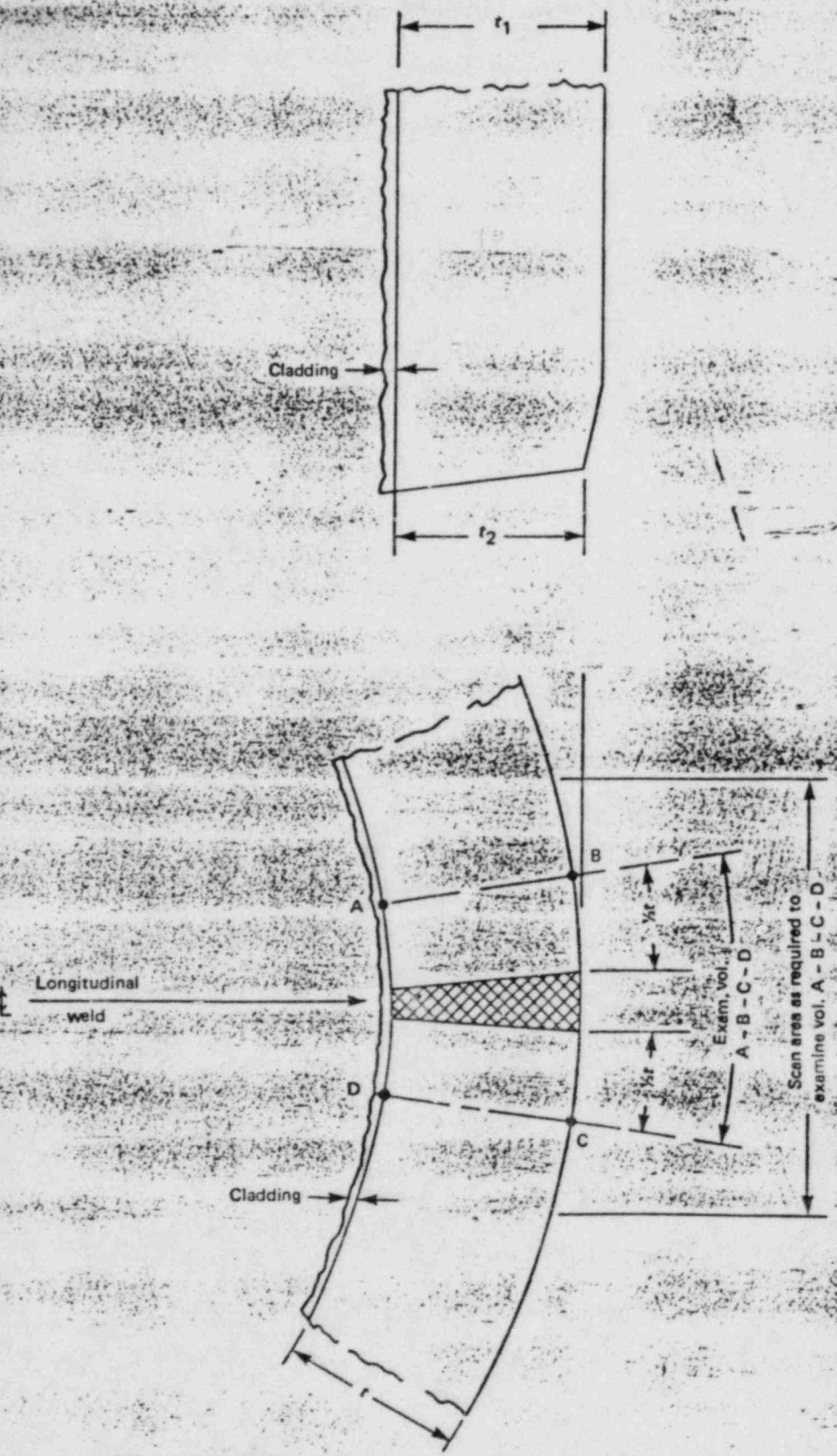
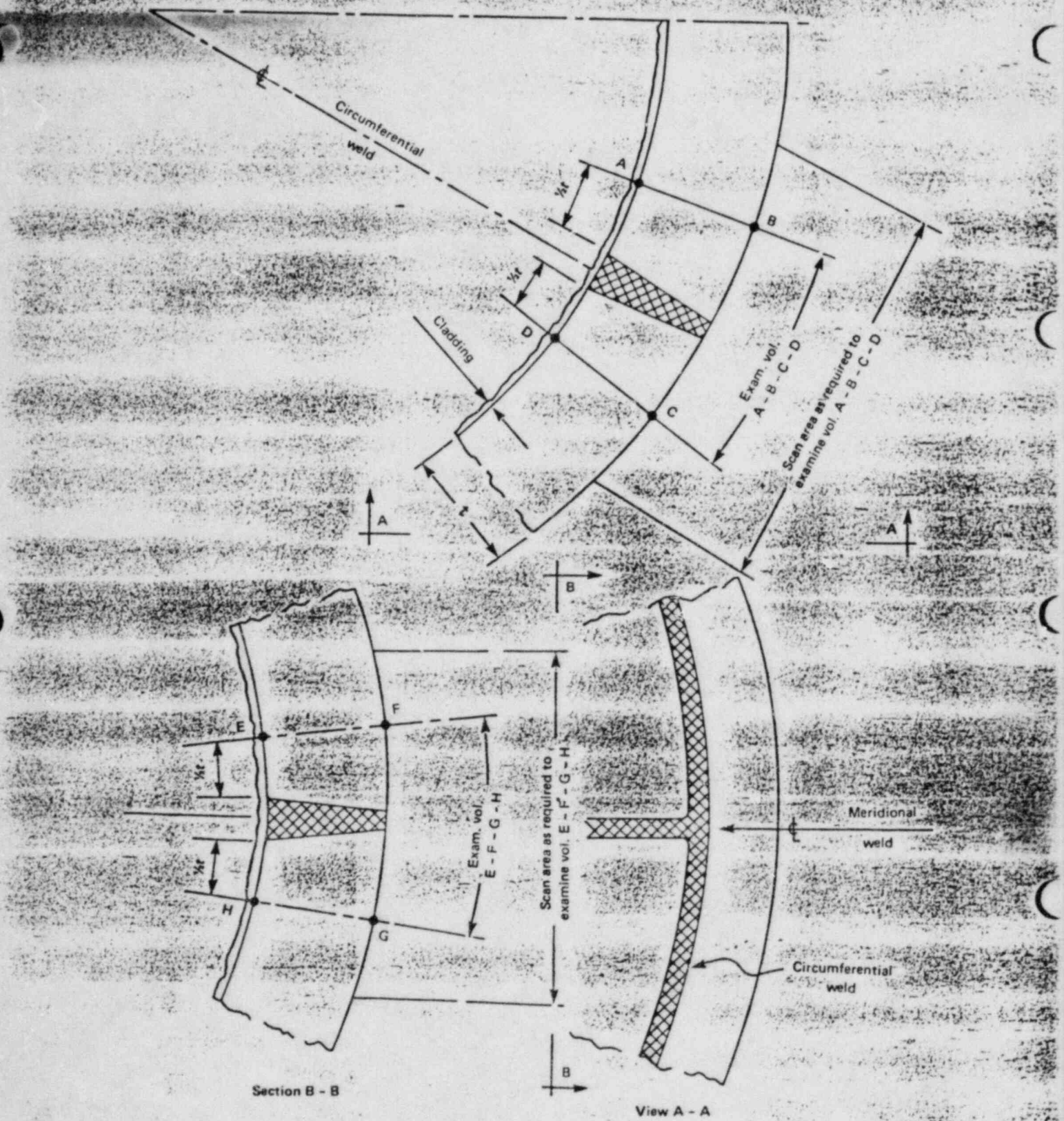


FIG. IWB-2500-2 VESSEL SHELL LONGITUDINAL WELD JOINTS



W80

FIG. IWB-2500-3 SPHERICAL VESSEL HEAD
CIRCUMFERENTIAL AND MERIDIONAL WELD JOINTS

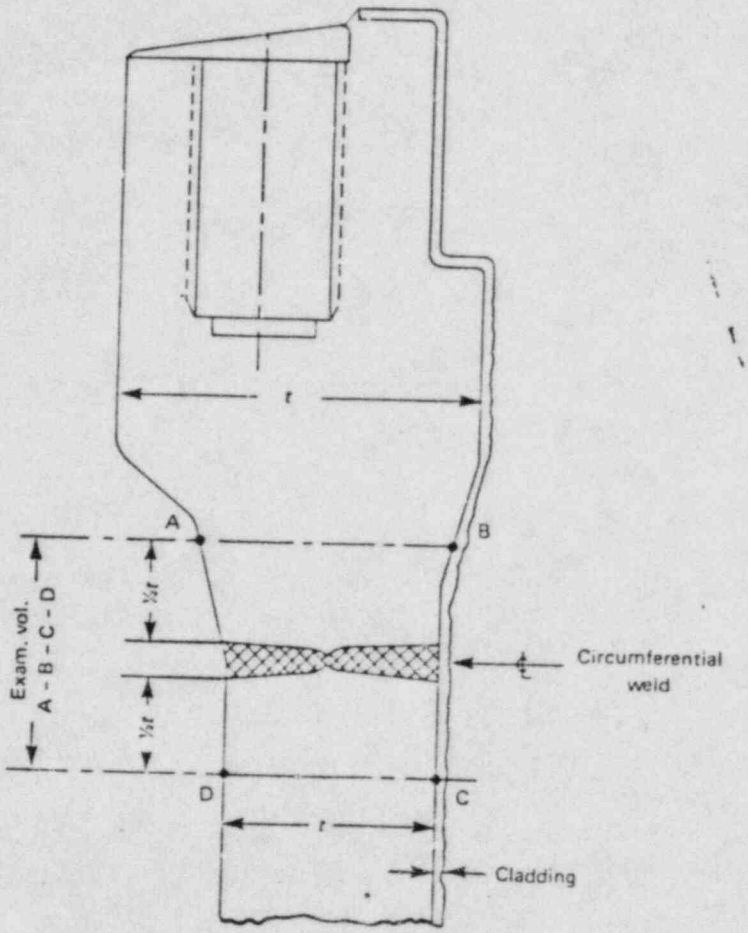


FIG. IWB-2500-4 SHELL-TO-FLANGE WELD JOINT

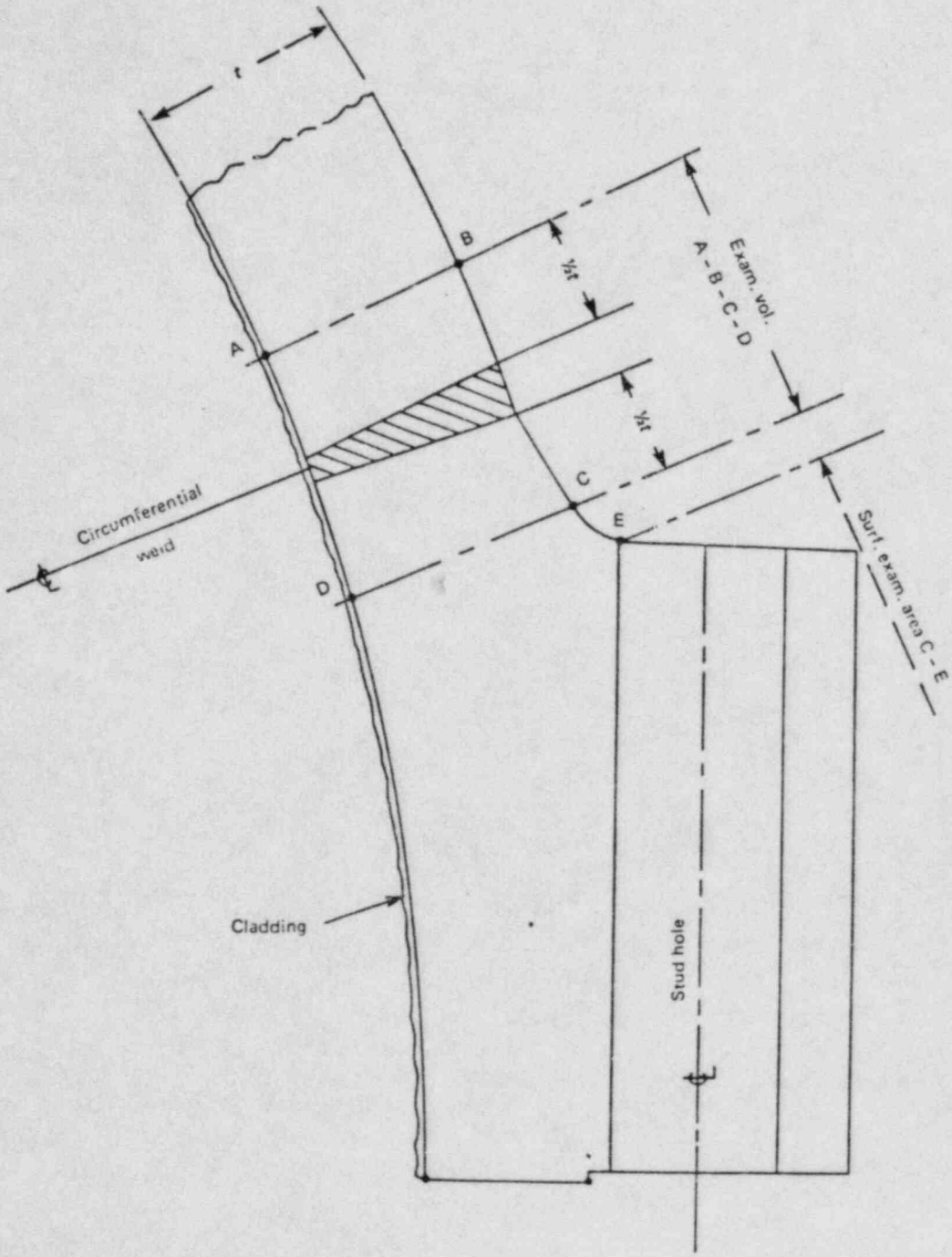


FIG. IWB-2500-5 HEAD-TO-FLANGE WELD JOINT

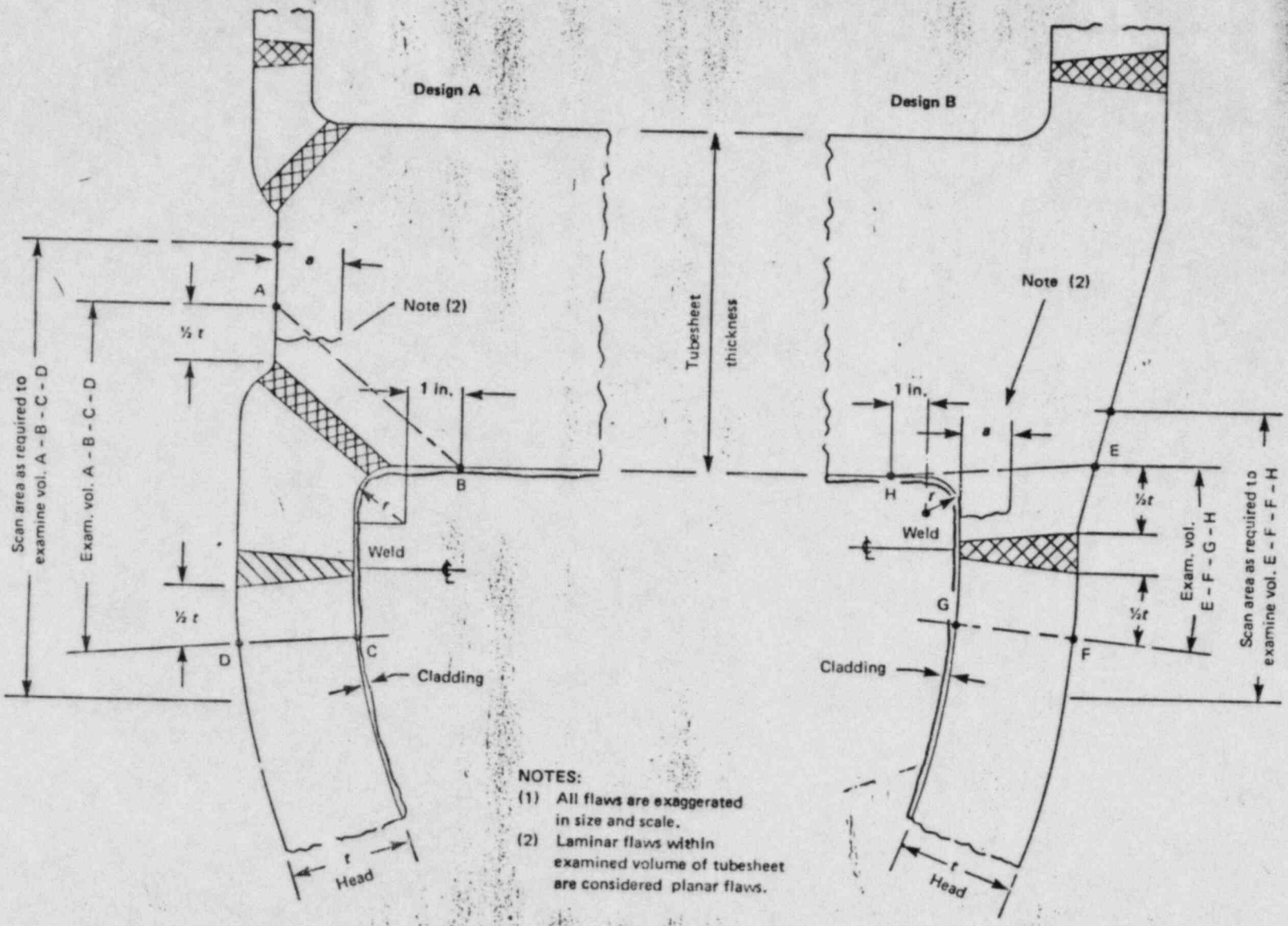
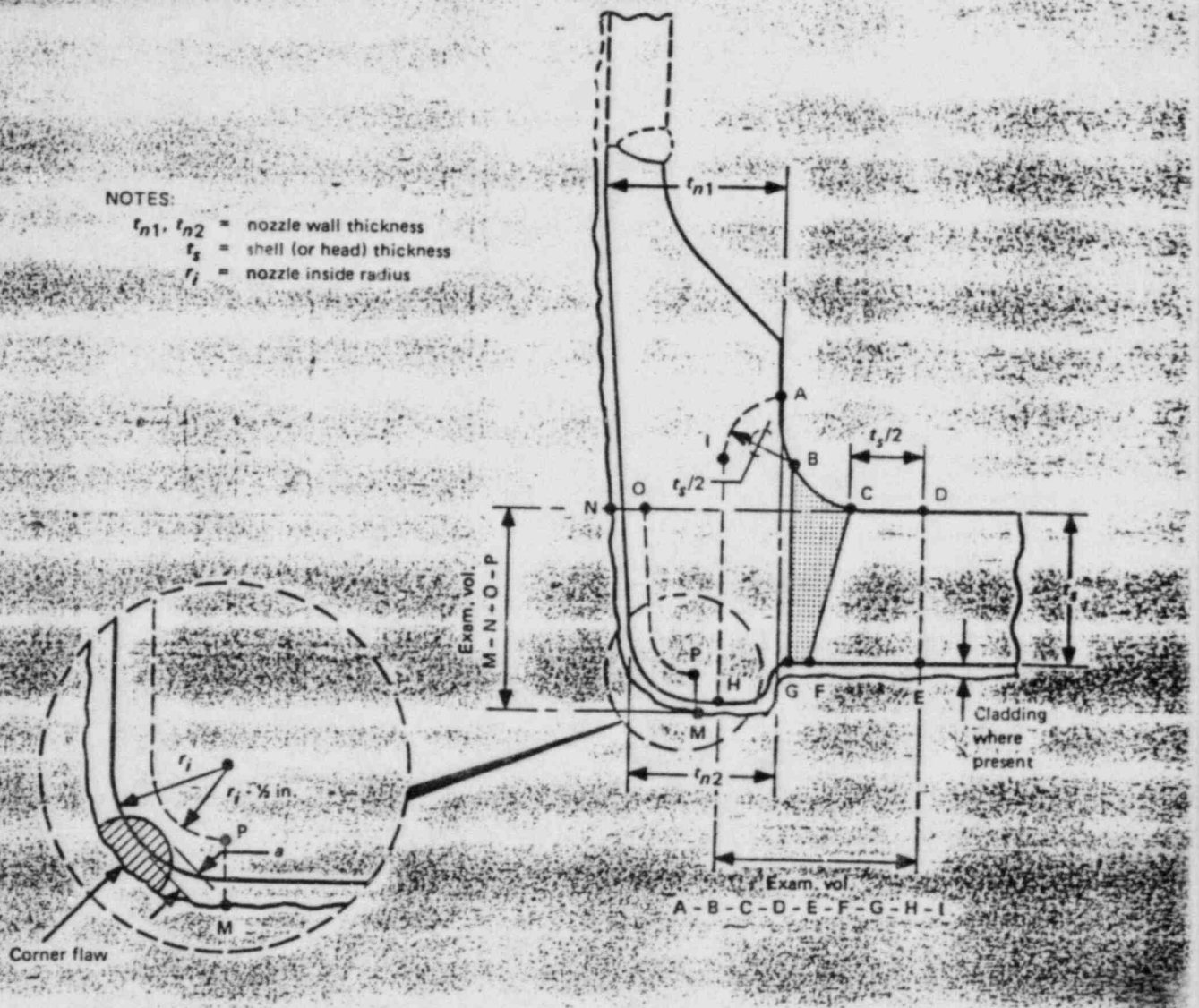


FIG. IWB-2500-6 TYPICAL TUBESHEET-TO HEAD WELD JOINTS

NOTES:

t_{n1}, t_{n2} = nozzle wall thickness
t_s = shell (or head) thickness
r_i = nozzle inside radius



EXAMINATION REGION[1]
Shell (or head) adjoining region
Attachment weld region
Nozzle cylinder region
Nozzle inside corner region

EXAMINATION VOLUME[2]
C-D-E-F
B-C-F-G
A-B-G-H-I
M-N-O-P

NOTES:

(1) Examination regions are identified for the purpose of differentiating the acceptance standards in IWB-3512.
(2) Examination volumes may be determined either by direct measurements on the component or by measurements based on design drawings.

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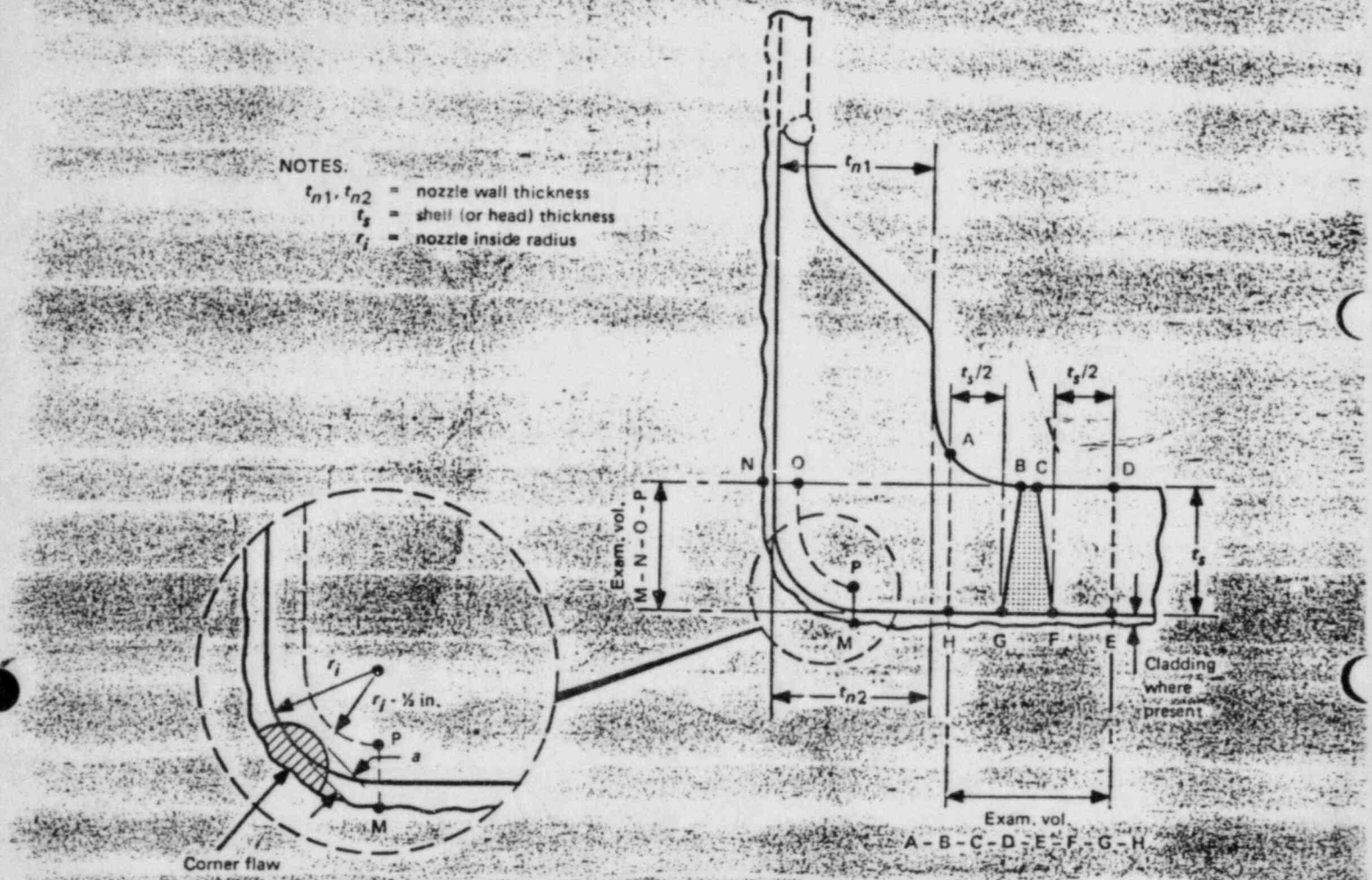
FIG. IWB-2500-7(a) NOZZLE IN SHELL OR HEAD
(Examination Zones in Barrel Type Nozzles Joined by Full Penetration Corner Welds)



EXAMINATION REGION[1]
Shell (or head) adjoining region
Attachment weld region
Nozzle cylinder region
Nozzle inside corner region

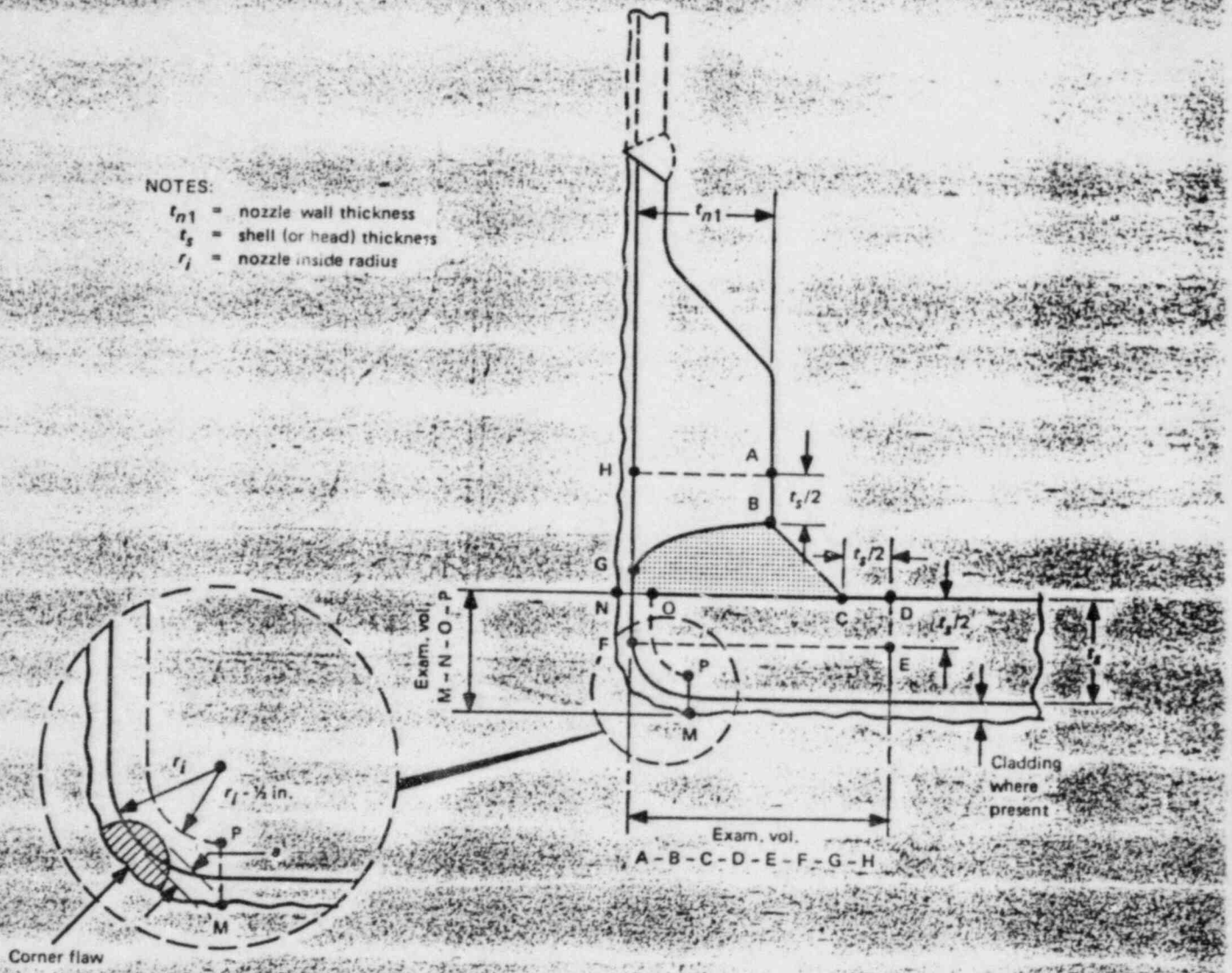
EXAMINATION VOLUME[2]
C-D-E-F
B-C-F-G
A-B-G-H
M-N-O-P

NOTES:
(1) Examination regions are identified for the purpose of differentiating the acceptance standards in IWB-3512.
(2) Examination volumes may be determined either by direct measurements on the component or by measurements based on design drawings.

W80

FIG. IWB-2500-7(b) NOZZLE IN SHELL OR HEAD
(Examination Zones in Flange Type Nozzles Joined by Full Penetration Butt Welds)

NOTES:
- t_{n1} = nozzle wall thickness
- t_s = shell (or head) thickness
- r_i = nozzle inside radius

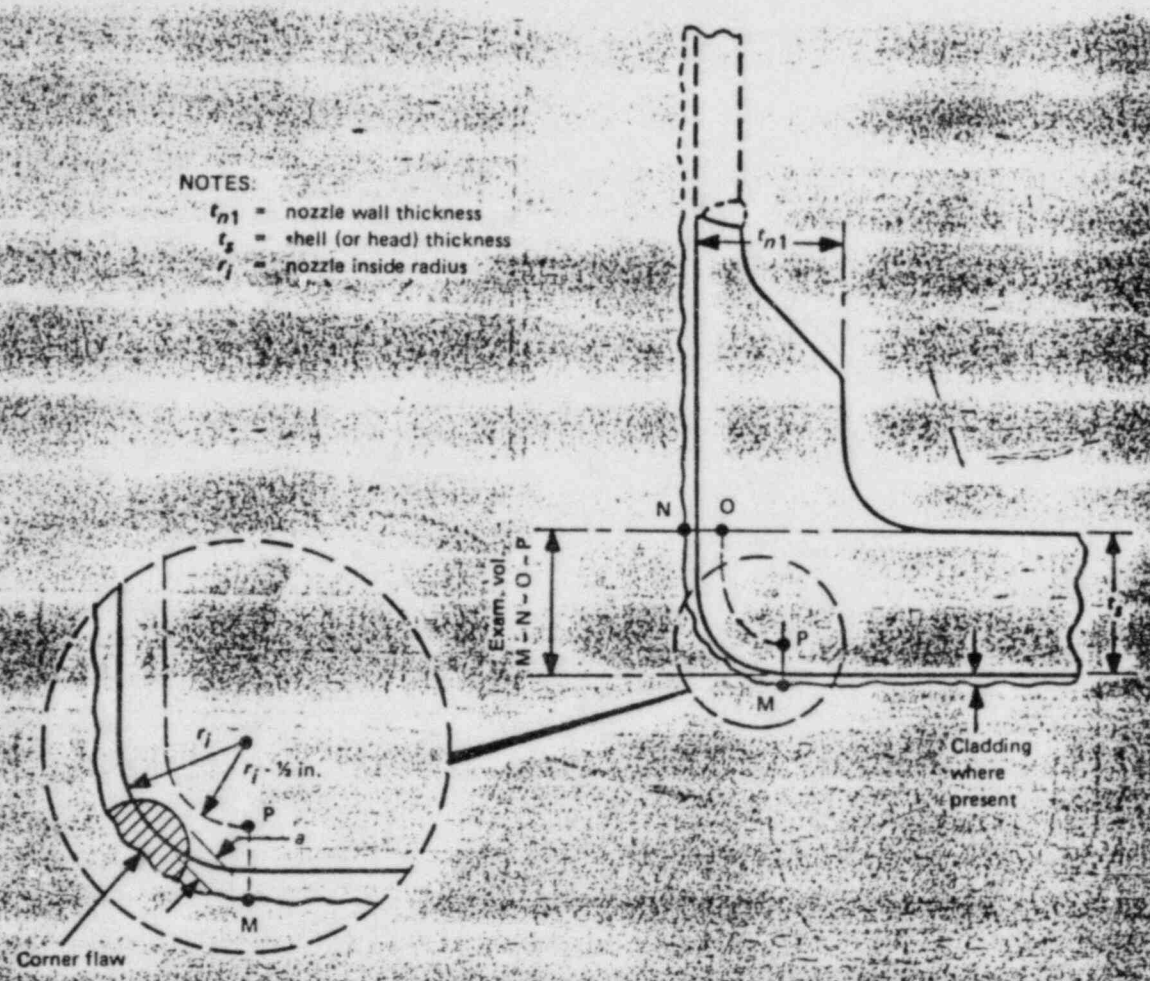


EXAMINATION REGION[1]	EXAMINATION VOLUME[2]
Shell (or head) adjoining region	C-D-E-F-G
Attachment weld region	B-C-G
Nozzle cylinder region	A-B-G-H
Nozzle inside corner region	M-N-O-P

NOTES:
(1) Examination regions are identified for the purpose of differentiating the acceptance standards in IWB 3512.
(2) Examination volumes may be determined either by direct measurements on the component or by measurements based on design drawings.

W80

FIG. IWB-2500-7(c) NOZZLE IN SHELL OR HEAD
(Examination Zones in Set-On Type Nozzles Joined by Full Penetration Corner Welds)

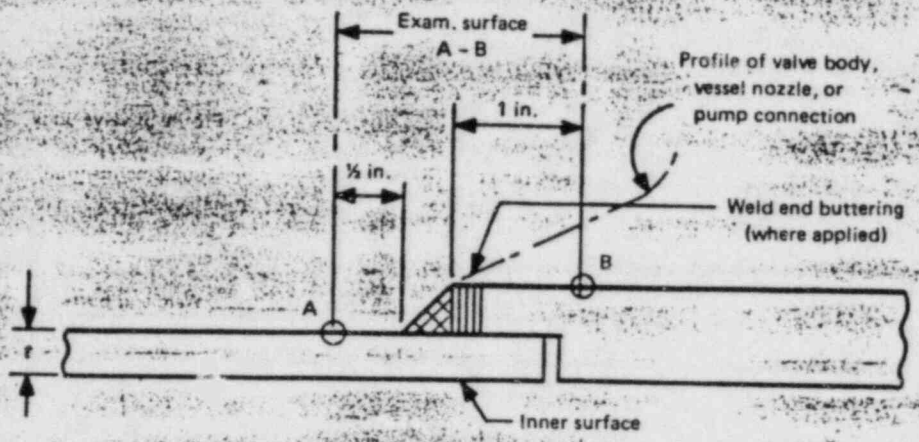


EXAMINATION REGION[1]	EXAMINATION VOLUME[2]
Nozzle inside corner region	M-N-O-P

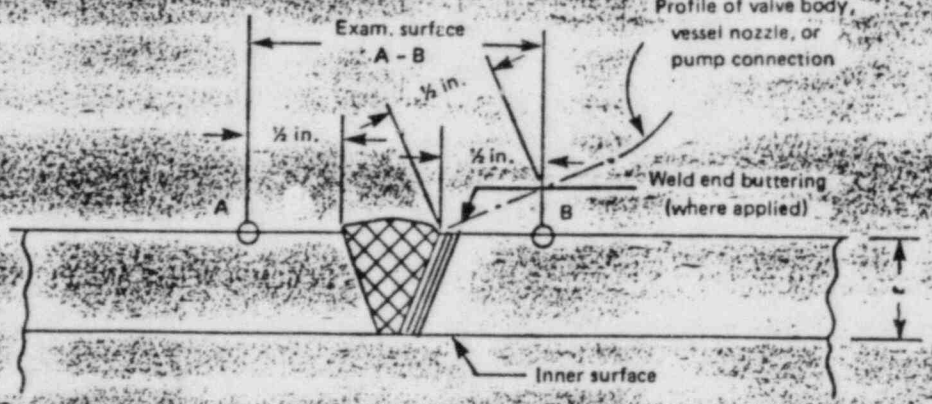
NOTES:
(1) Examination regions are identified for the purpose of differentiating the acceptance standards in IWB-3512.
(2) Examination volumes may be determined either by direct measurements on the component or by measurements based on design drawings.

W80

FIG. IWB-2500-7(d) NOZZLE IN SHELL OR HEAD
(Examination Zone in Nozzles Integrally Cast or Formed in Shell or Head)

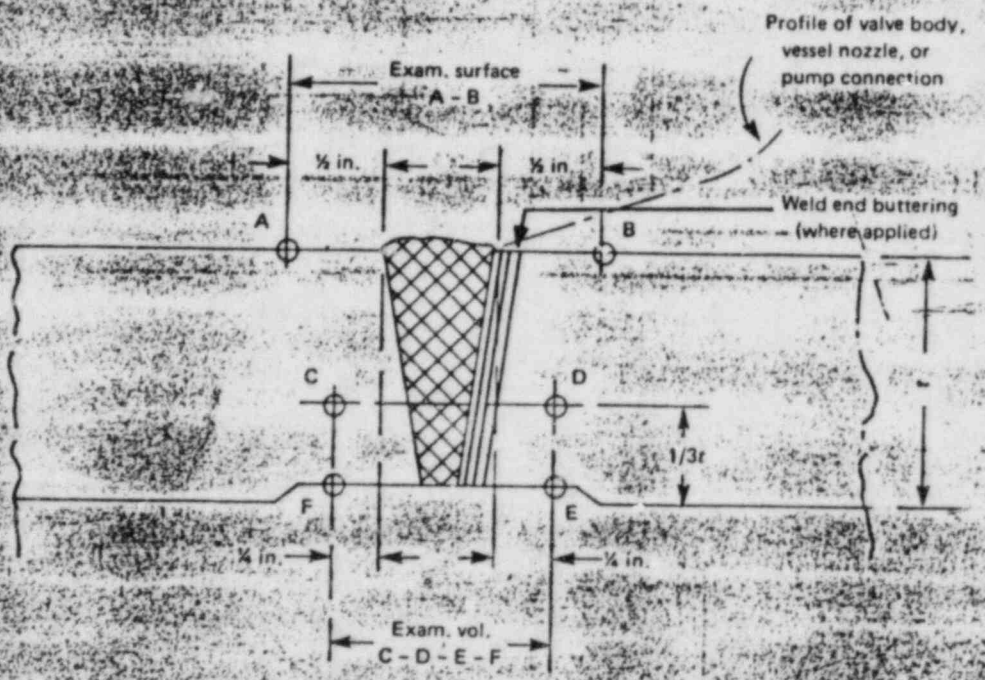


(a) Socket Welded Piping



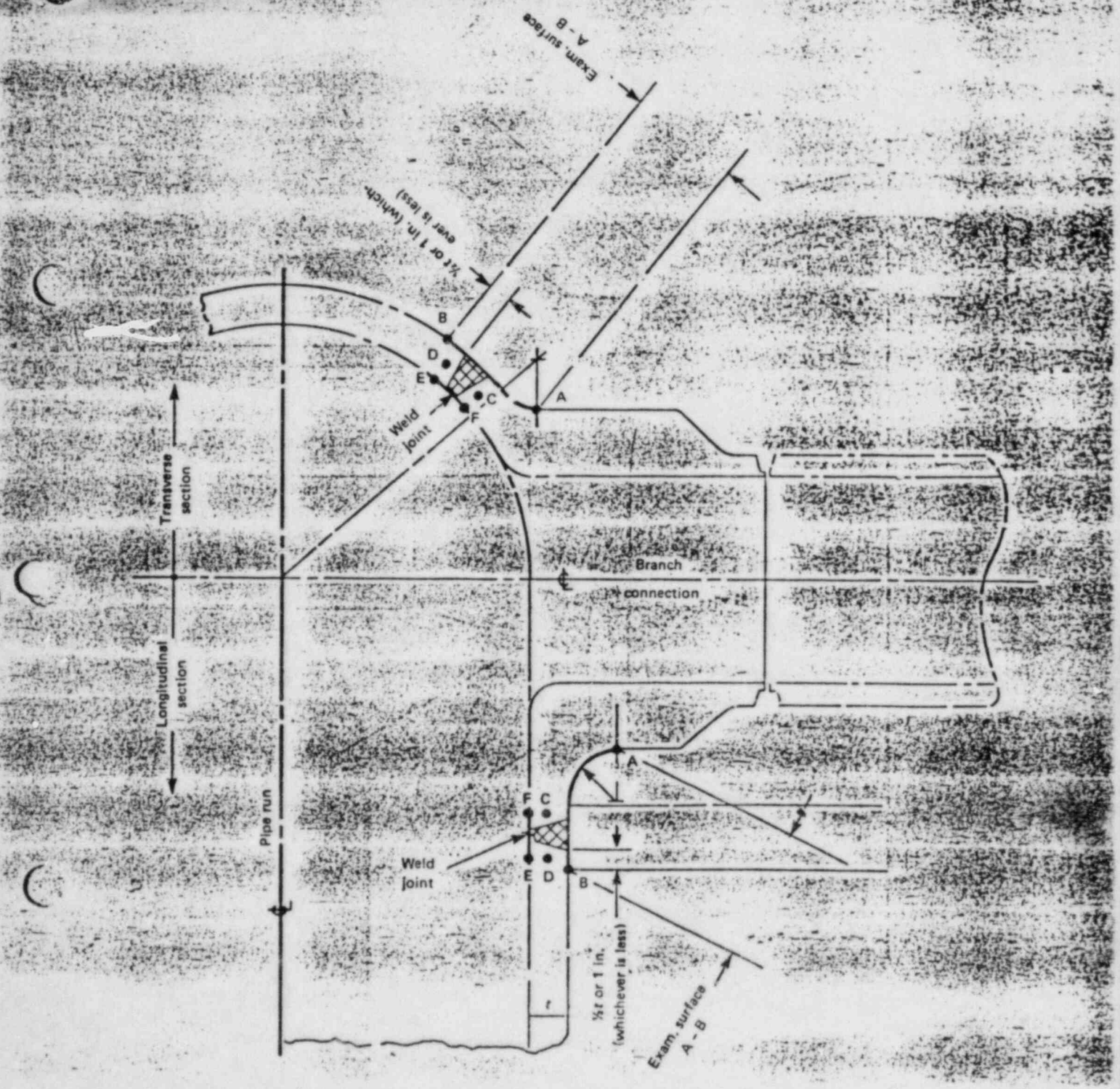
(b) NPS < 4 in.

W80 FIG. IWB-2500-8 SIMILAR AND DISSIMILAR METAL WELDS IN COMPONENTS AND PIPING



(c) NPS > 4 in.

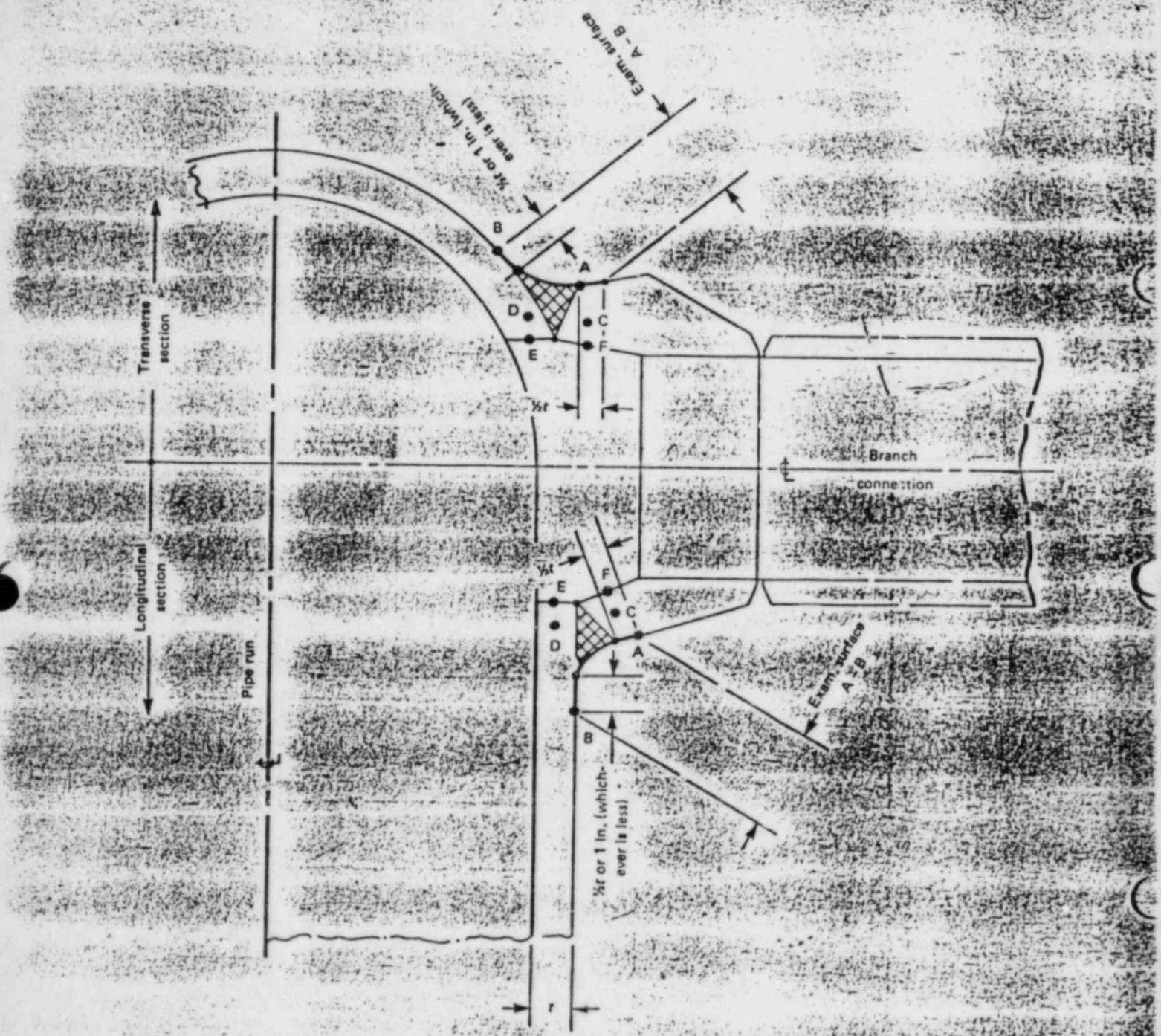
W80 FIG. IWB-2500-8 SIMILAR AND DISSIMILAR METAL WELDS IN COMPONENTS AND PIPING (CONT'D)



NOTE: Examination volumes C - D - E - F are defined per Fig. IWB-2500-8.

W80

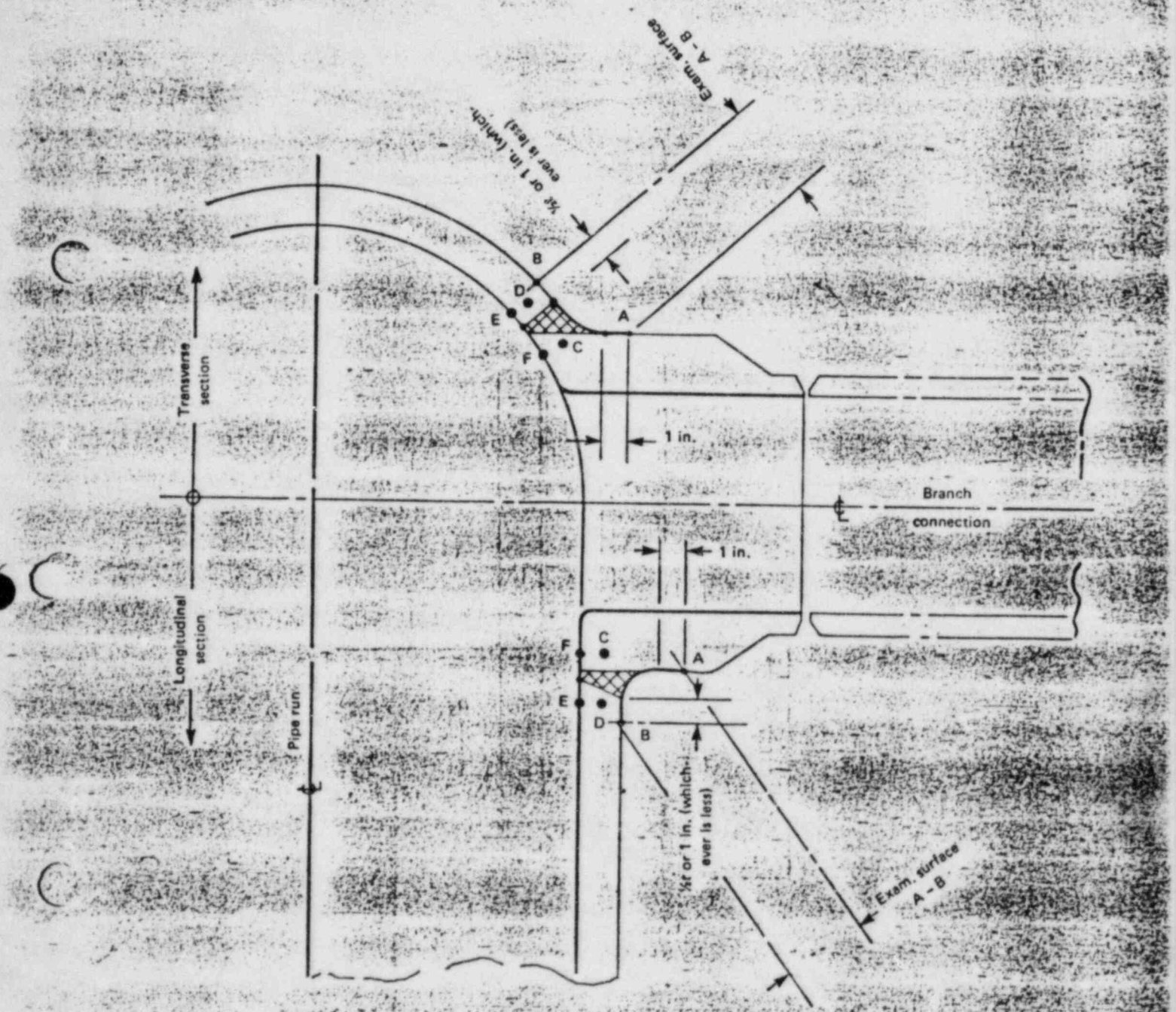
FIG. IWB-2500-9 PIPE BRANCH CONNECTION



NOTE: Examination volumes C - D - E - F are defined per Fig. IWB-2500-8.

W80

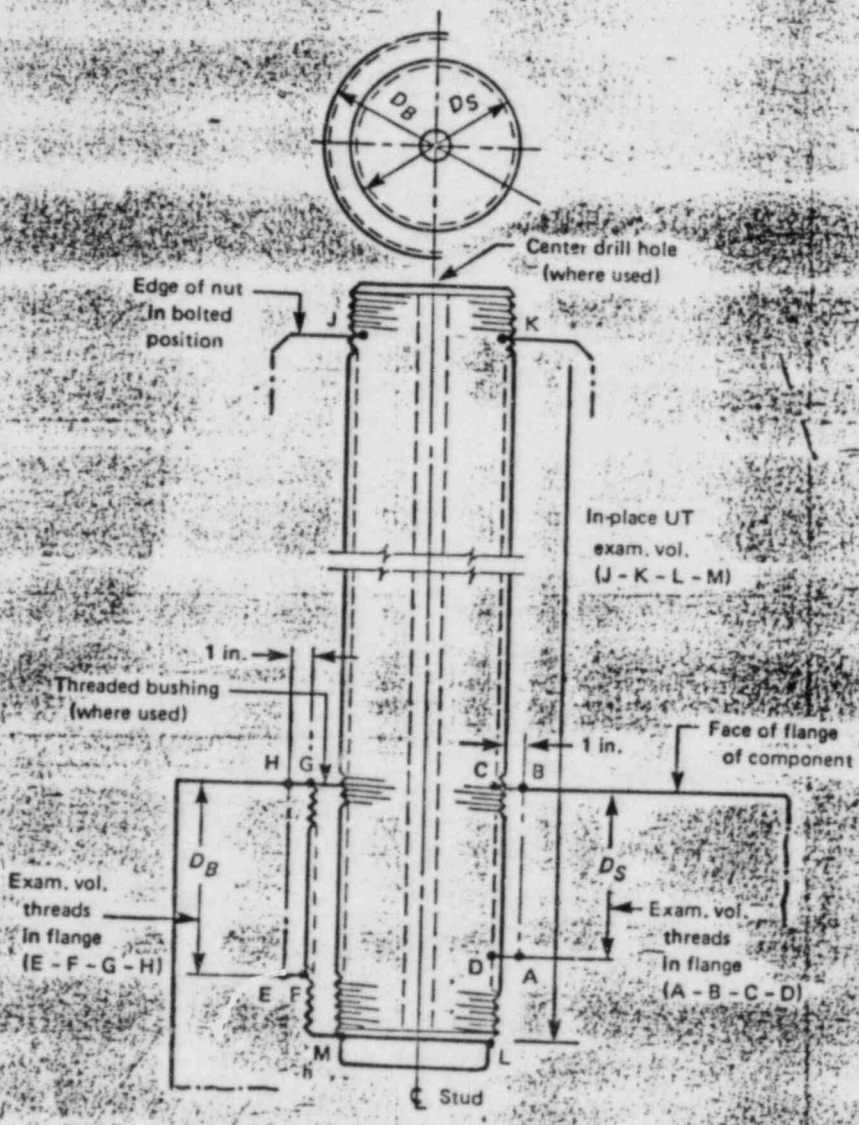
FIG. IWB-2500-10 PIPE BRANCH CONNECTION



NOTE: Examination volumes C - D - E - F are defined per Fig. IWB-2500-8.

W80

FIG. IWB-2500-11 PIPE BRANCH CONNECTION



NOTE: D_B is the diameter of the threaded bushing;
D_S is the diameter of the stud.

FIG. IWB-2500-12 CLOSURE STUD AND THREADS IN FLANGE STUD HOLE

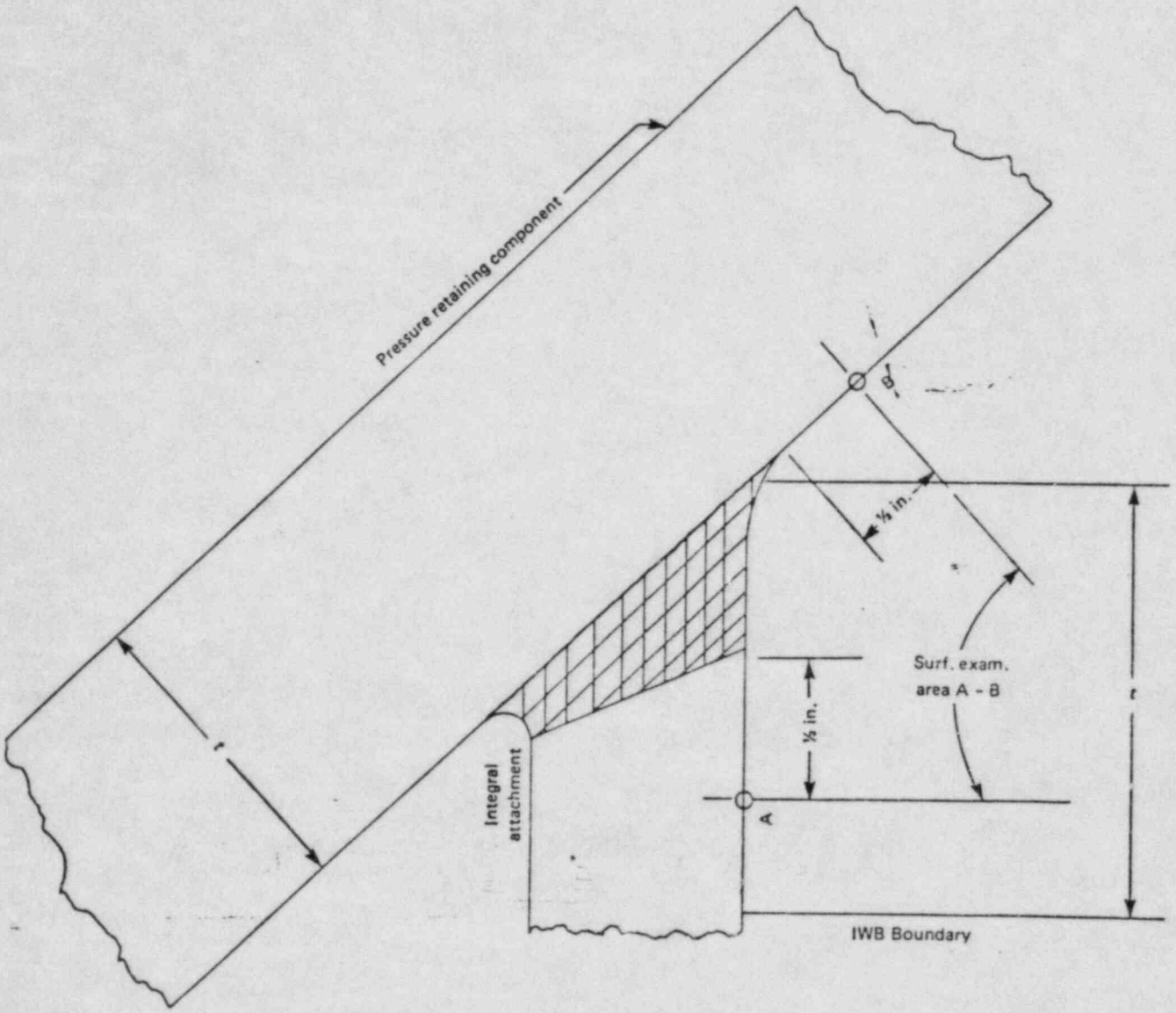
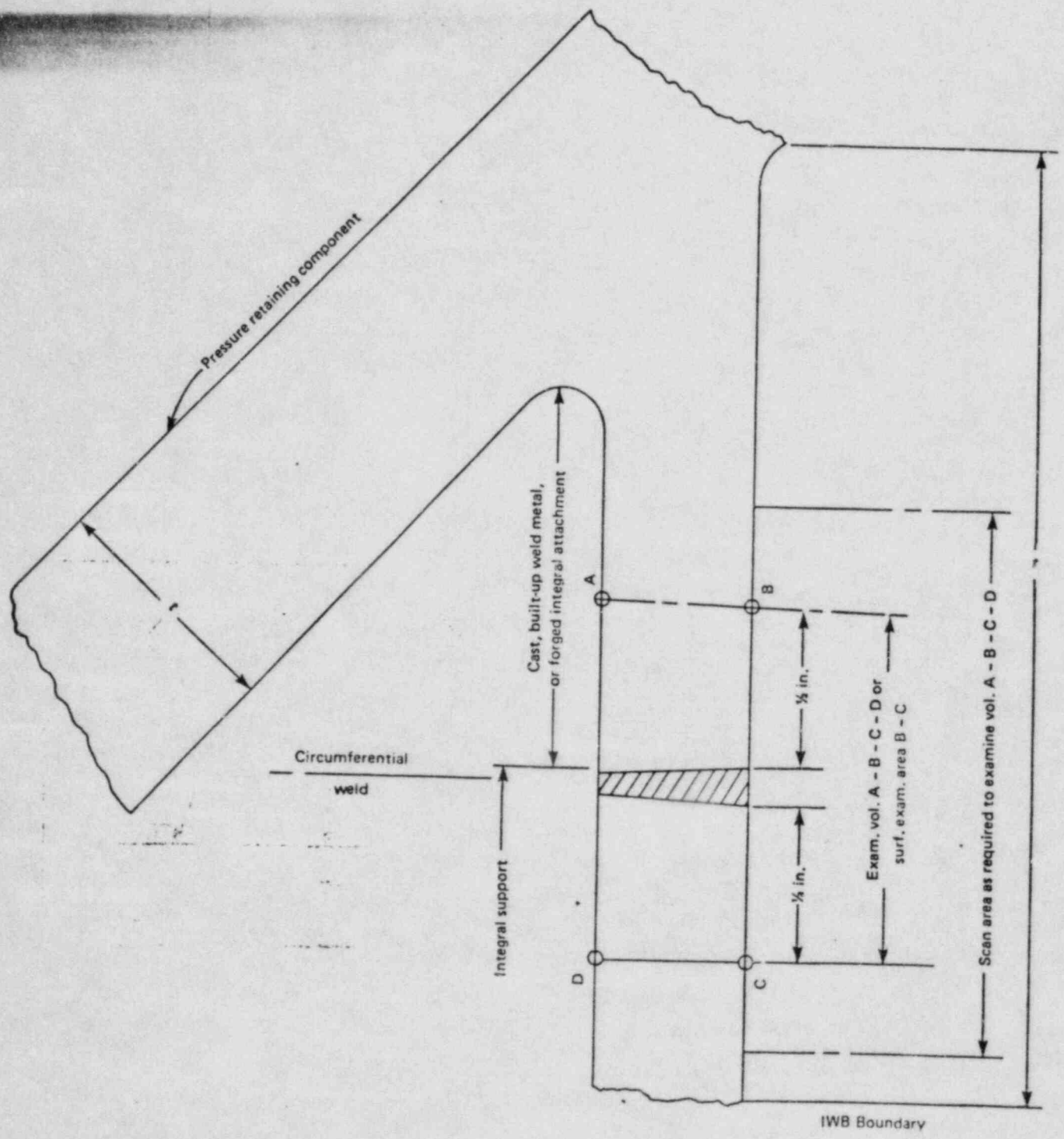


FIG. IWB-2500-13 INTEGRAL ATTACHMENT WELD



NOTE: A volumetric examination from one side (B - C) of the circumferential weld may be performed in place of the surface method.

FIG. IWB-2500-14 SUPPORT CIRCUMFERENTIAL WELD JOINT

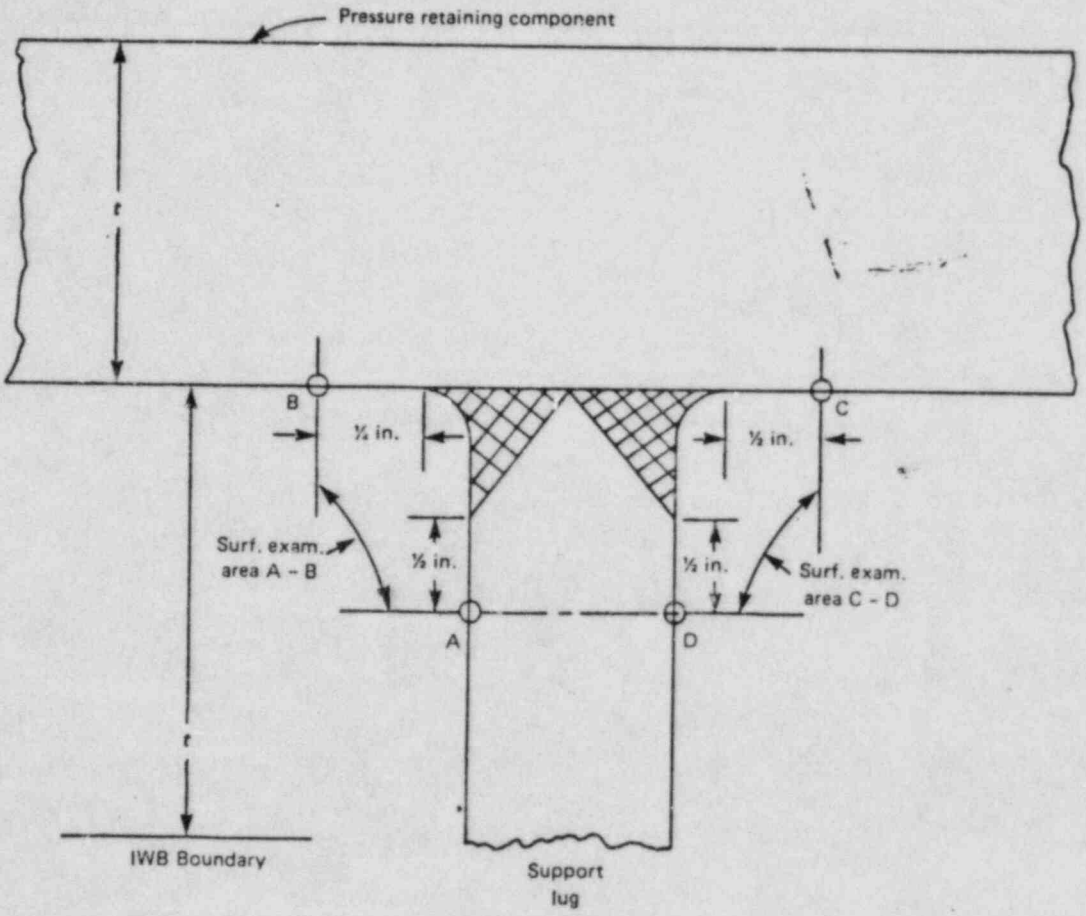


FIG. IWB-2500-15 INTEGRAL ATTACHMENT

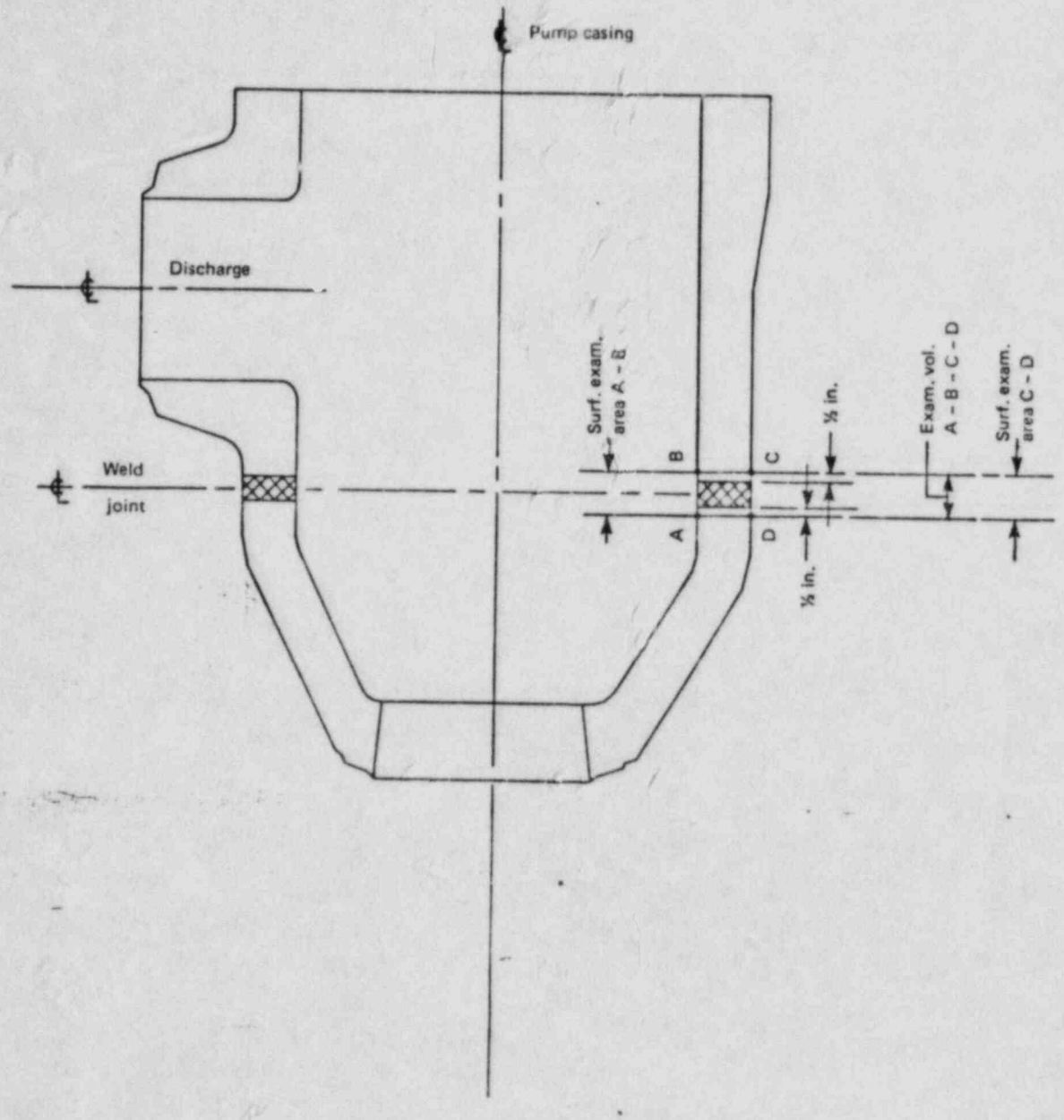


FIG. IWB-2500-16 PUMP CASING WELD
[Type F Pump (Section III)]

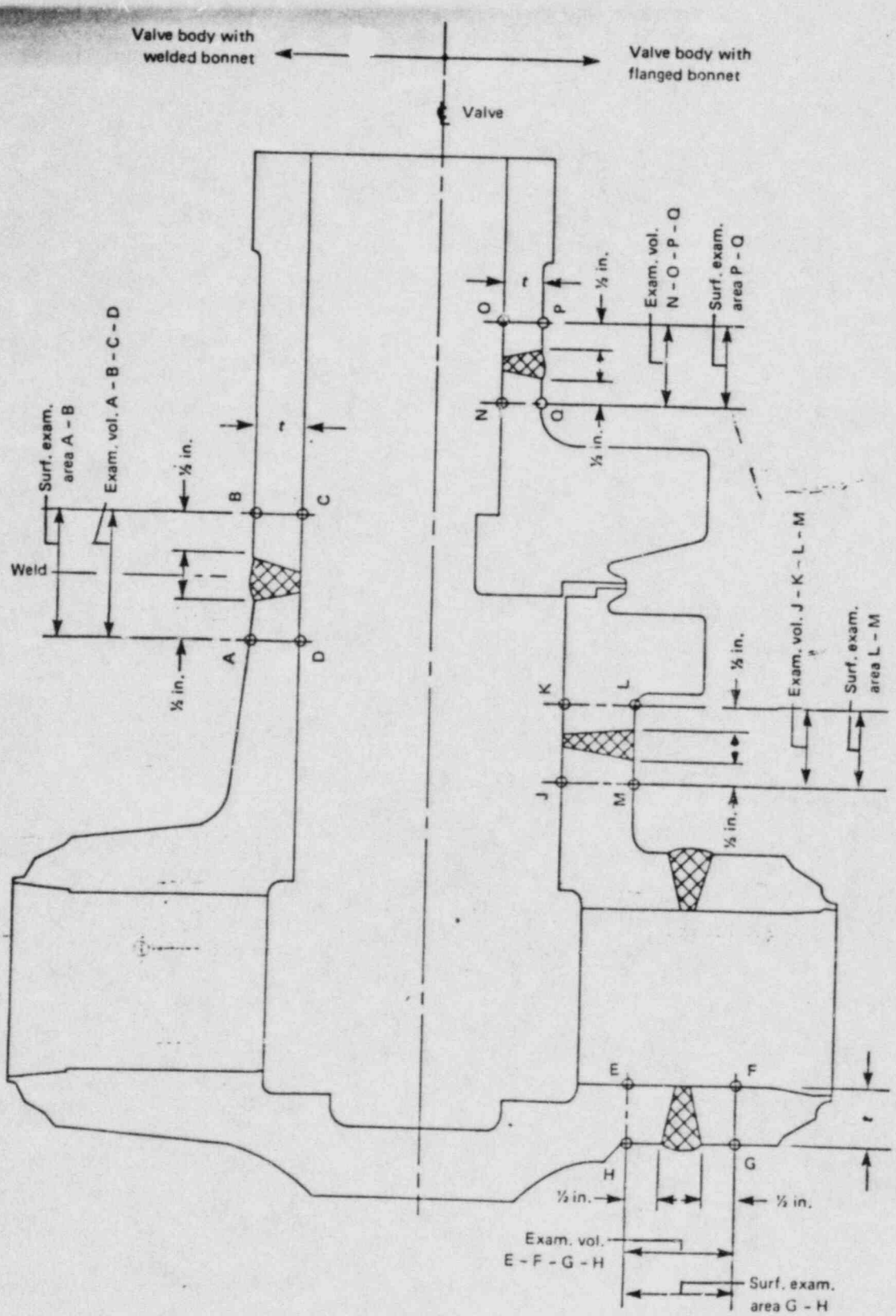


FIG. IWB-2500-17 VALVE BODY WELDS

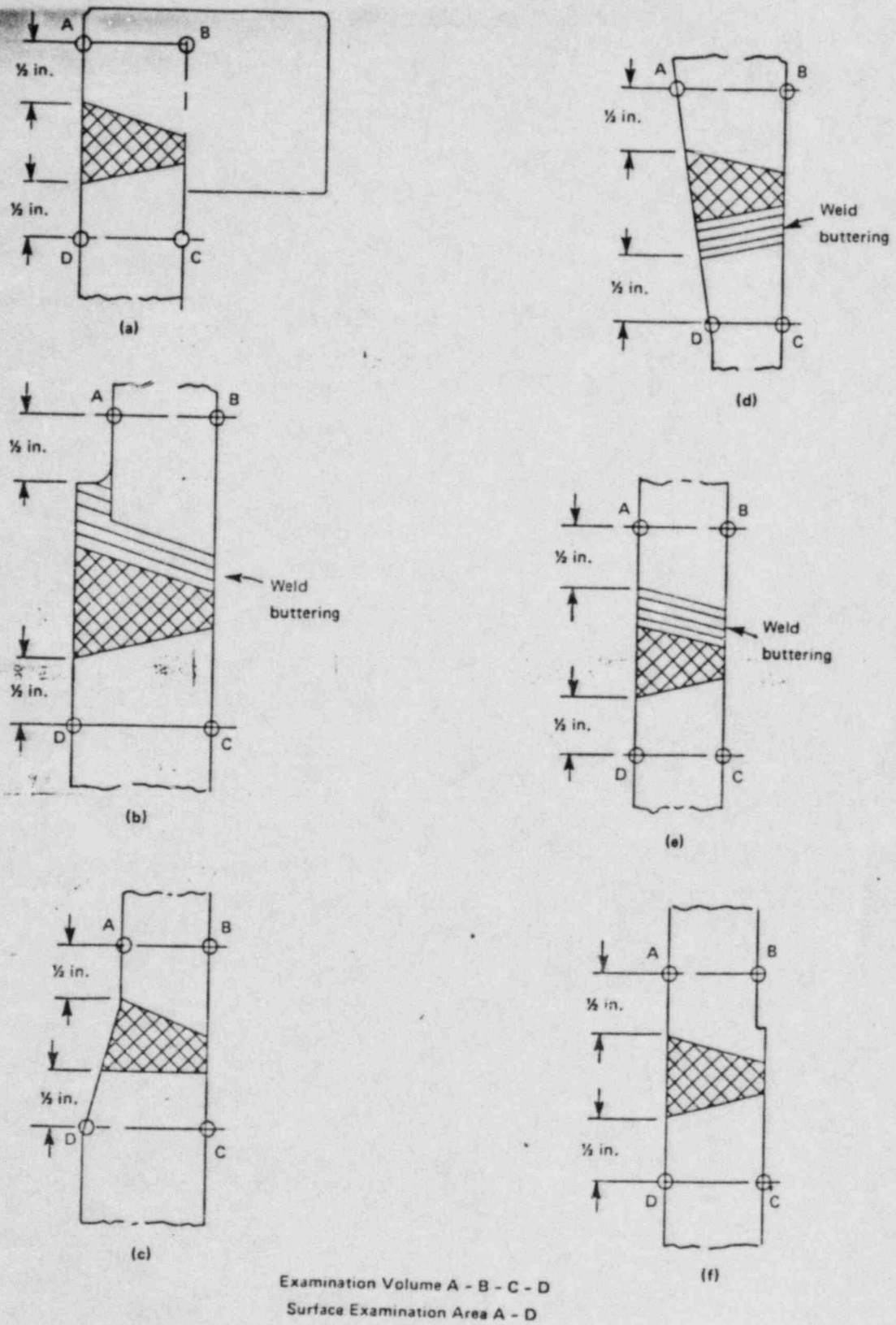


FIG. IWB-2500-18 CONTROL ROD DRIVE HOUSING WELDS

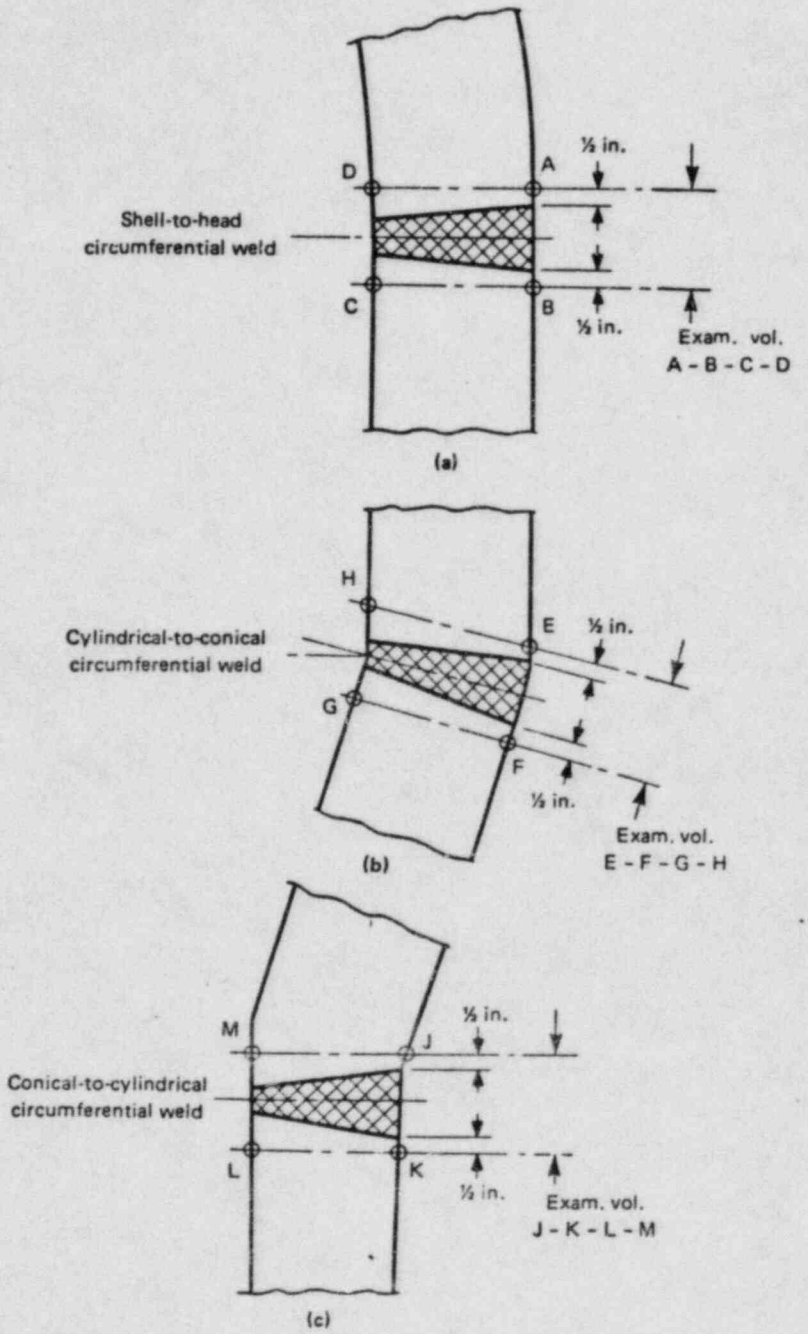


FIG. IWC-2500-1 VESSEL CIRCUMFERENTIAL WELDS

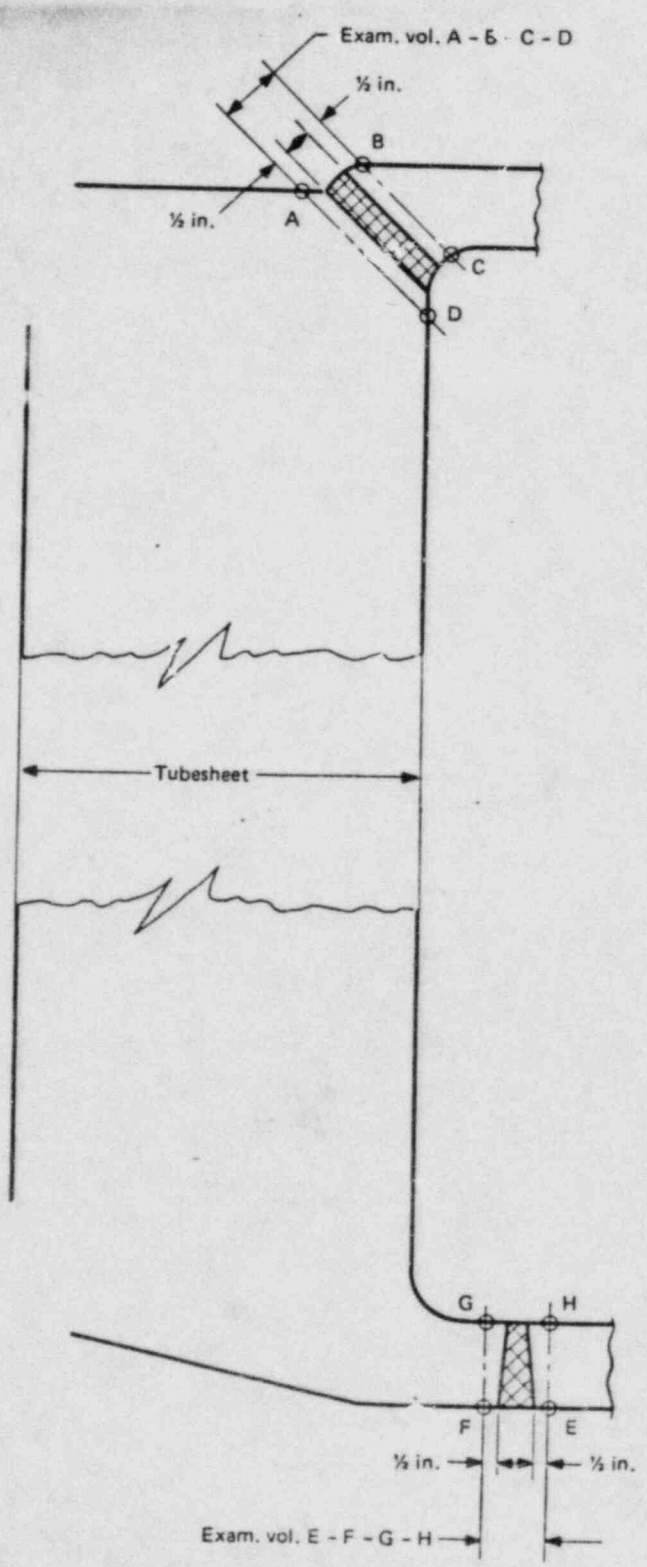
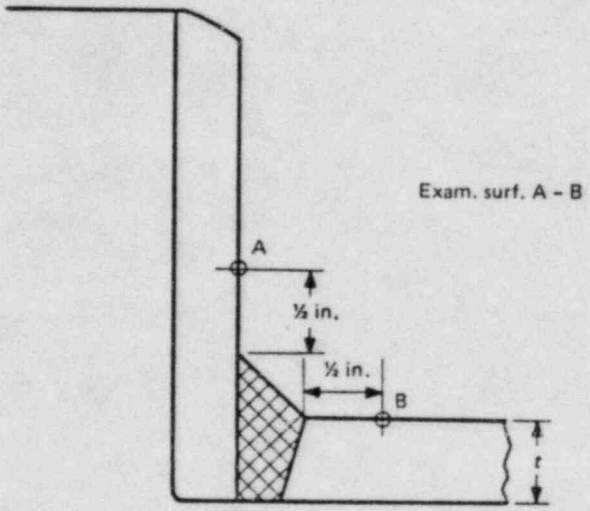
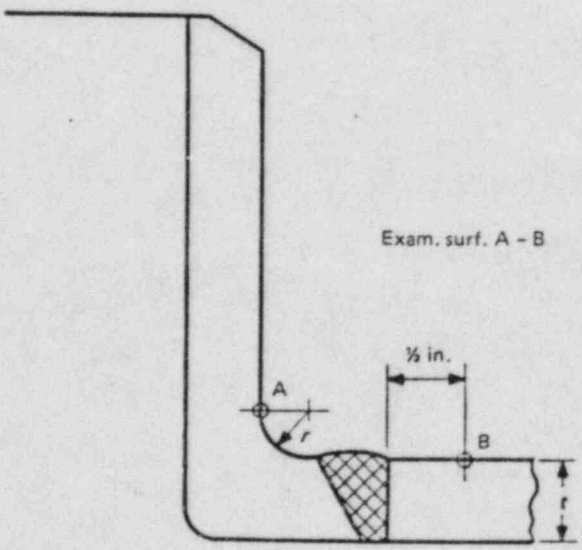


FIG. IWC-2500-2 TYPICAL TUBESHEET-TO-SHELL CIRCUMFERENTIAL WELDS
(Steam Generator Designs)



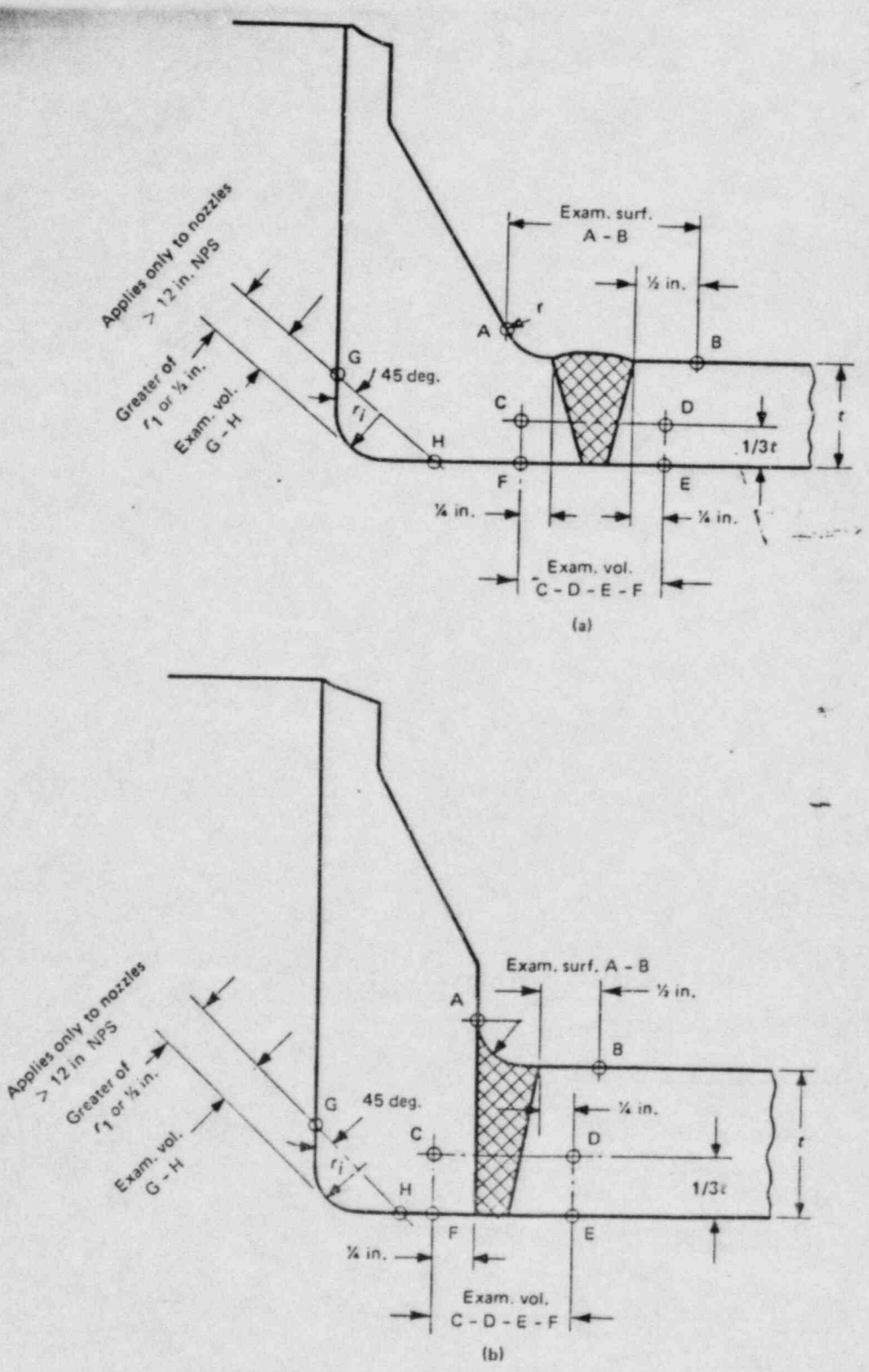
(a)



(b)

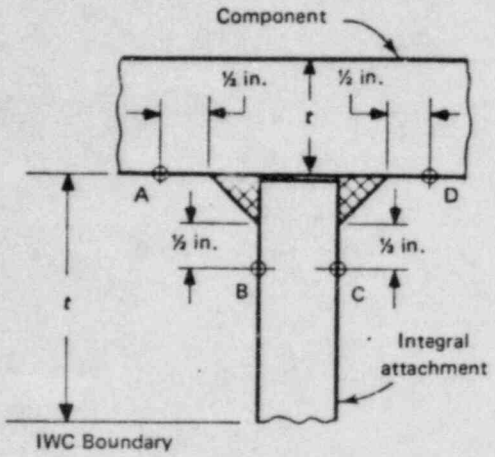
GENERAL NOTE: Nozzles sizes over 4 in. NPS; vessel thickness $t \leq \frac{1}{2}$ in.

FIG. IWC-2500-3 NOZZLE-TO-VESSEL WELDS

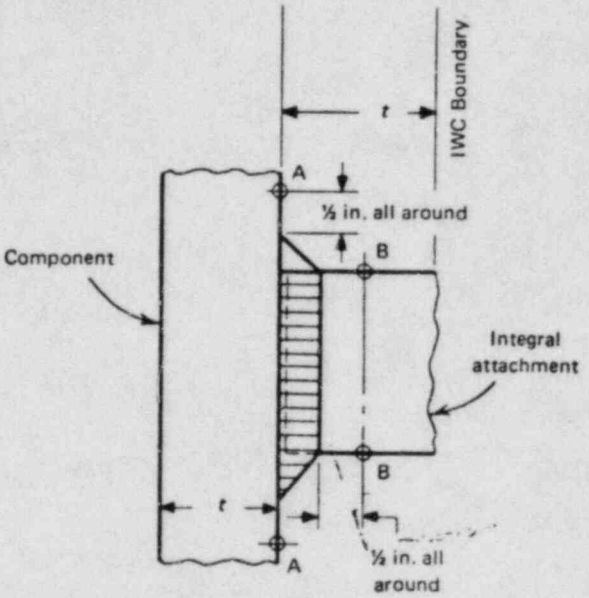


GENERAL NOTE: Nozzle sizes over 4 in. NPS; vessel thickness over ½ in.

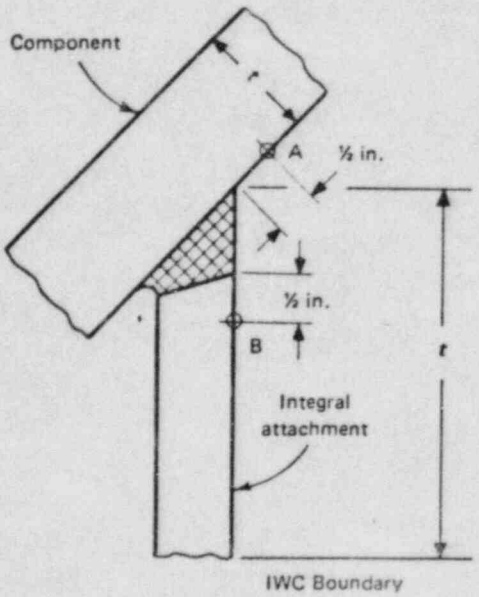
FIG. IWC-2500-4 NOZZLE-TO-VESSEL WELDS



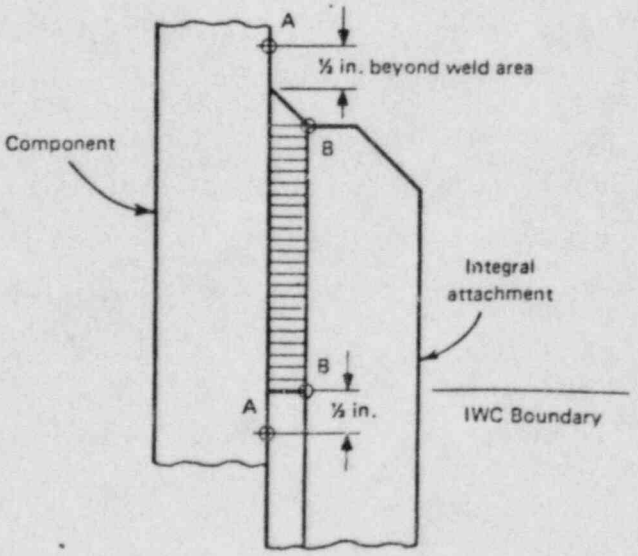
(a) Examination surfaces A - B and C - D



(b) Examination surfaces A - B



(c) Examination surfaces A - B



(d) Examination surfaces A - B

FIG. IWC-2500-5 INTEGRALLY WELDED ATTACHMENTS

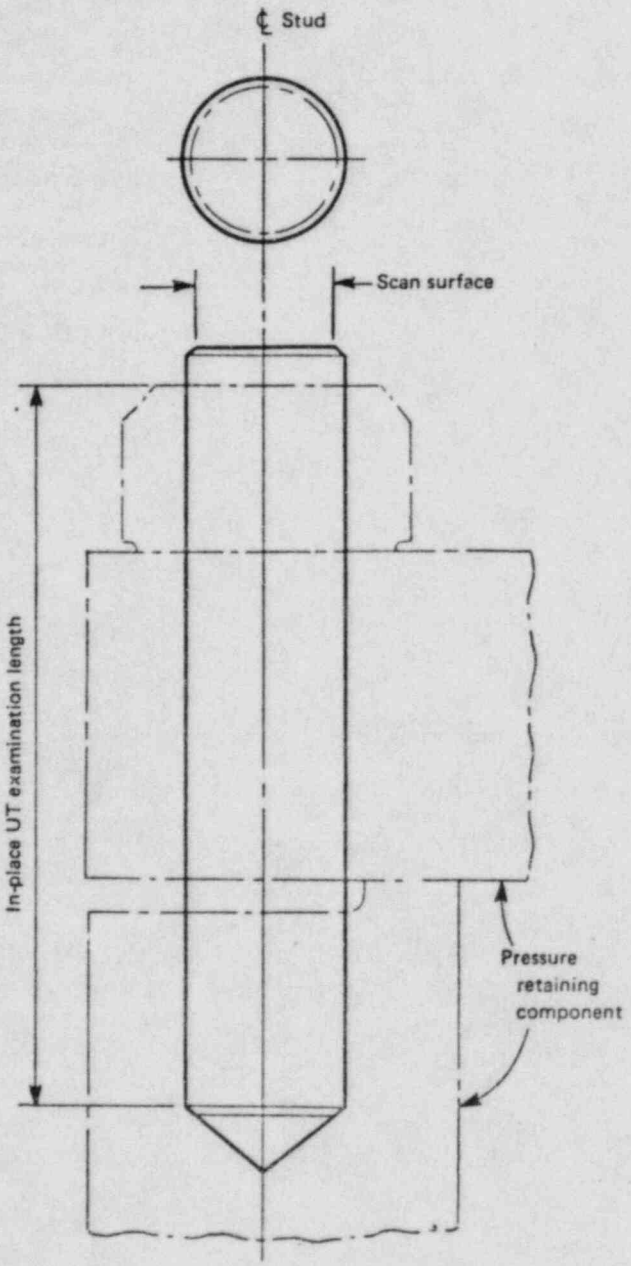
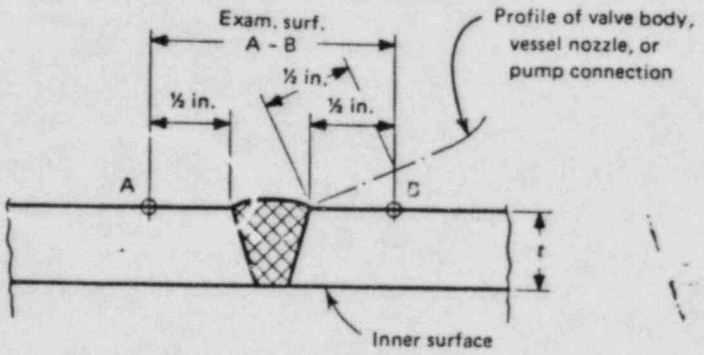
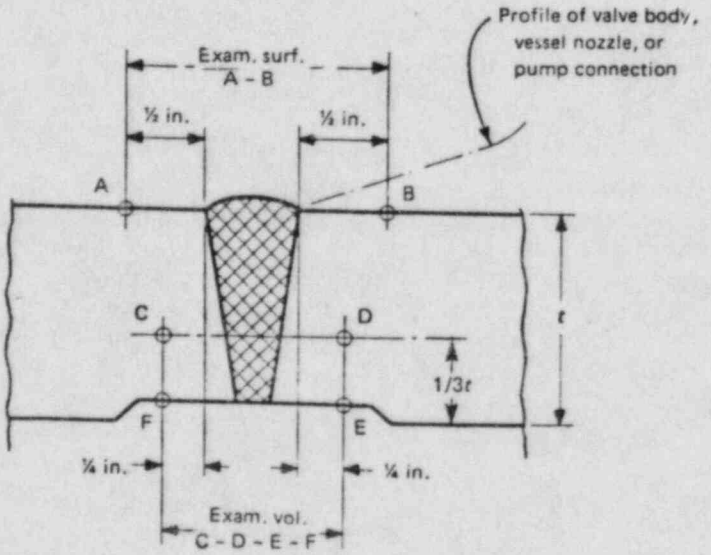


FIG. IWC-2500-6 PRESSURE RETAINING BOLTING



(a) Nominal pipe wall thickness $t \leq$ ½ in.



(b) Nominal pipe wall thickness $t >$ ½ in.

FIG. IWC-2500-7 WELDS IN PIPING

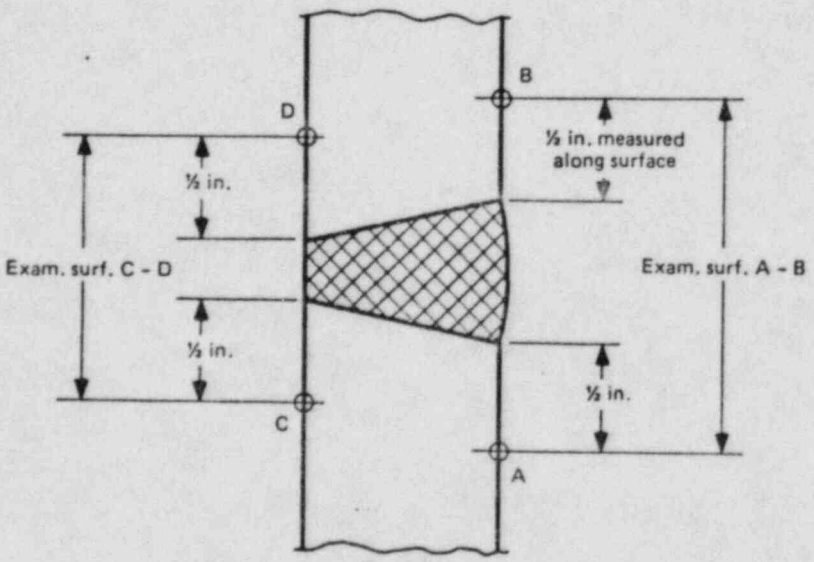


FIG. IWC-2500-8 WELDS IN PUMP CASING AND VALVE BODIES

Examination Surface A - B Around Branch Connection

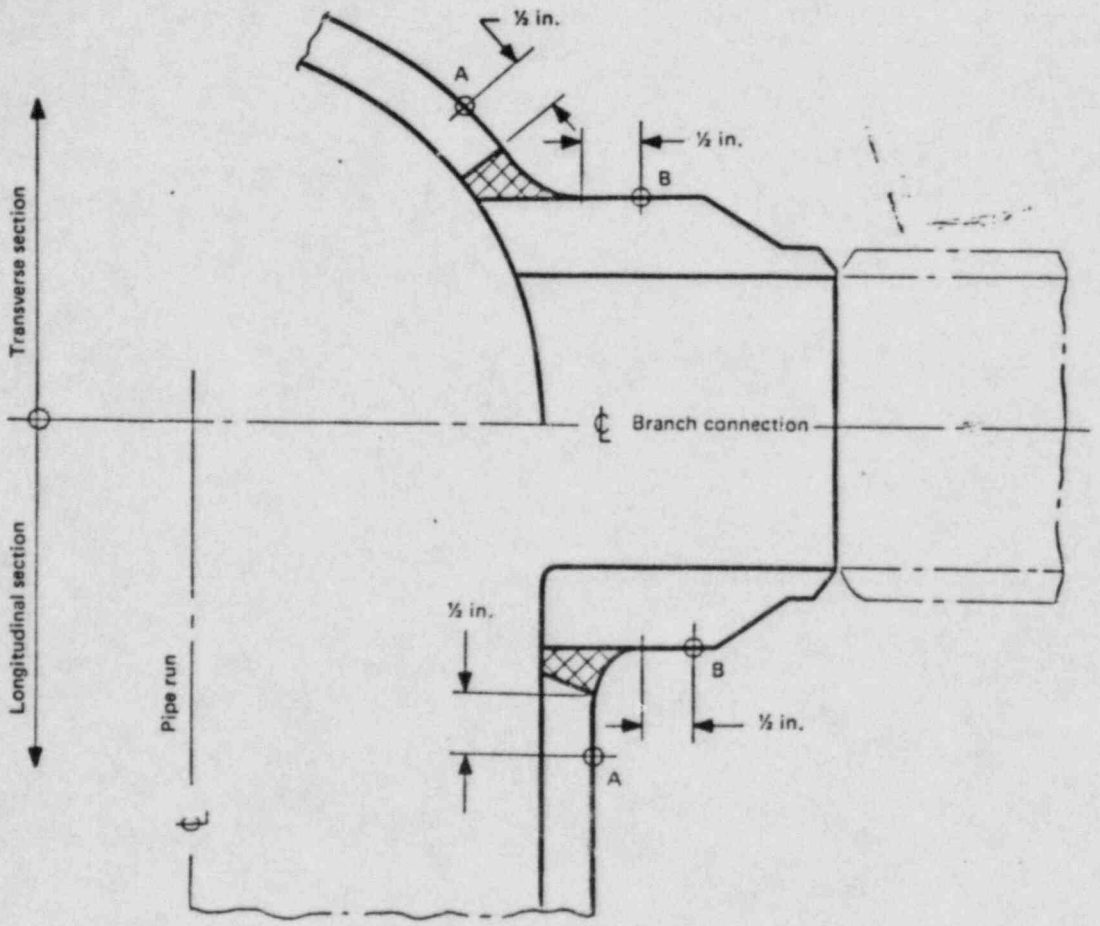


FIG. IWC-2500-9 BRANCH CONNECTION WELDS

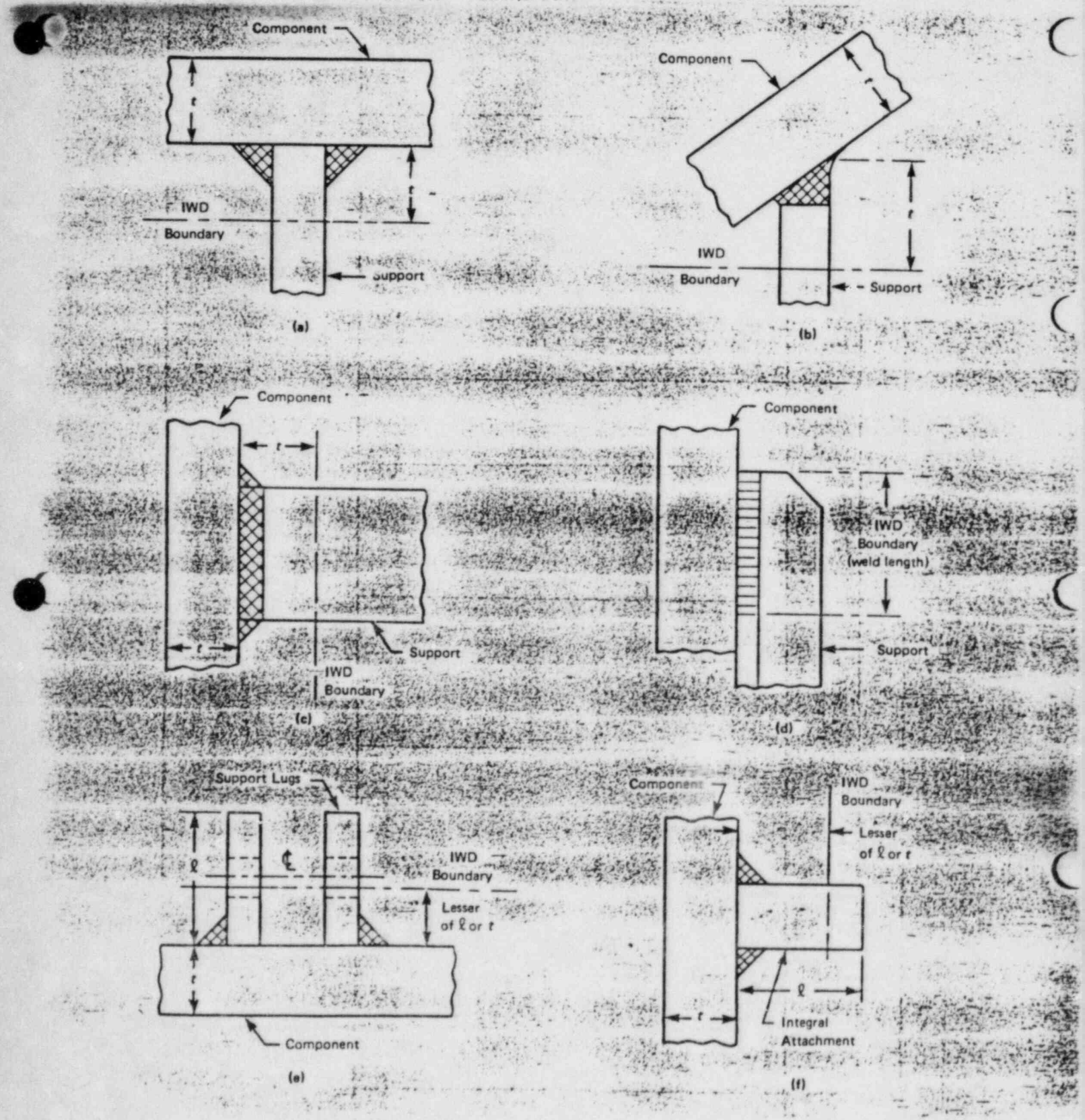


FIG. IWD-2500-1 INTEGRAL ATTACHMENT — COMPONENT SUPPORTS

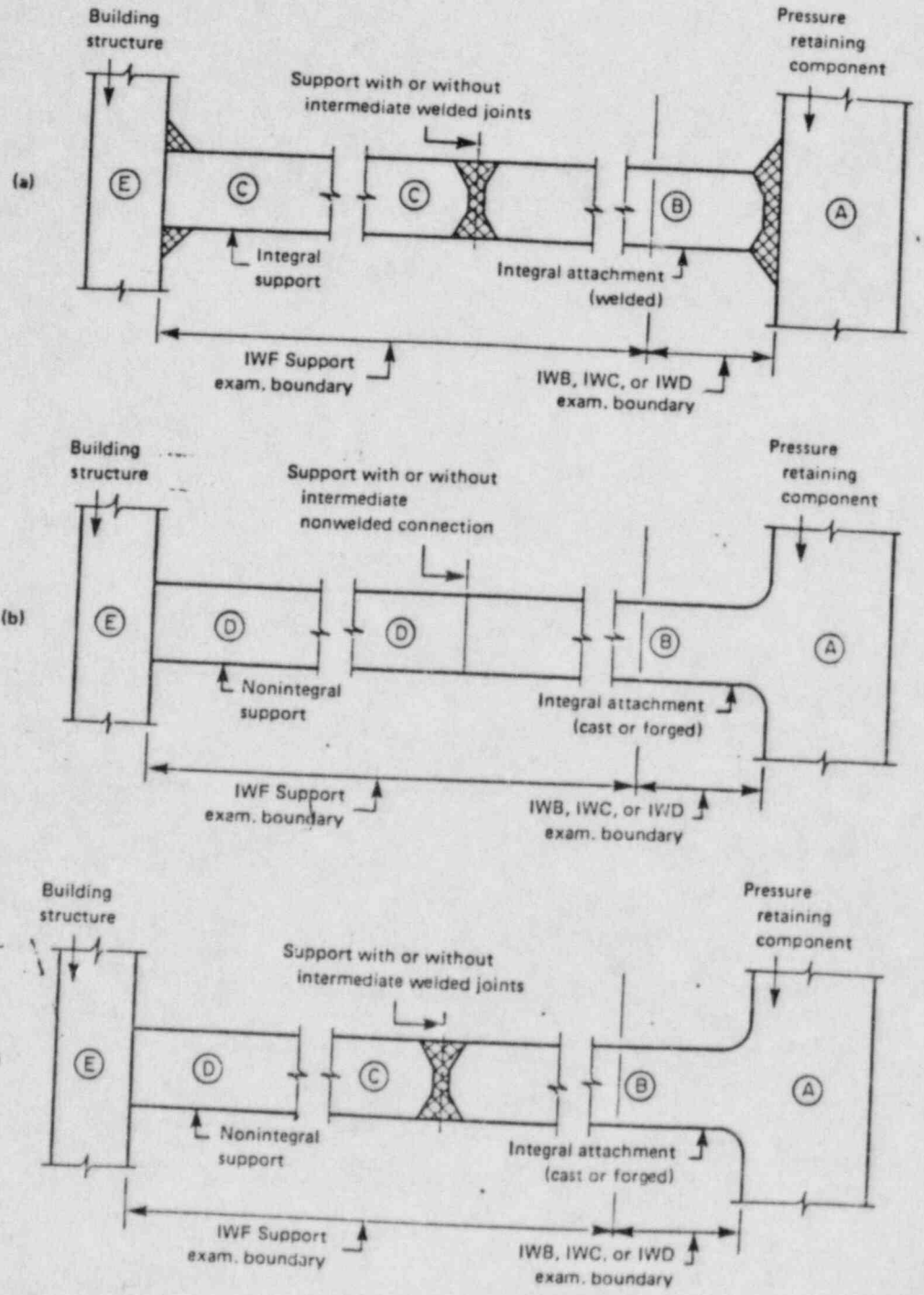


FIG. IWF-1300-1 ILLUSTRATIONS OF TYPICAL SUPPORT EXAMINATION BOUNDARIES

INVENTORY LIST AND DRAWINGS FOR CALIBRATION STANDARDS

Included in this section is an inventory list and drawings of the calibration standards applicable to the examinations required during this second ten (10) year inspection interval.

The calibration standards are the property of Arkansas Power & Light Company. The standards shall be placed in controlled storage and their removal from and return to storage will be controlled.

The calibration standards shall be protected as necessary against mechanical or chemical damage, rust or corrosion.

CALIBRATION STANDARDS DRAWINGS AND INVENTORY LIST

Included in this section is a list of calibration standards and drawings of the calibrations standards applicable to the examination required during this refueling outage 1R7.

The calibration standards are the property of Arkansas Power and Light Company. These standards should be placed in bonded storage, and their removal from and return to storage should be controlled.

The calibration standards shall be protected as necessary against mechanical damage, rust and corrosion.

LIST OF CALIBRATION STANDARDS

CALIBRATION STANDARD NUMBER	MATERIAL TYPE	CLAD	DRAWING NUMBER
40008	Inconel 600	----------	PC-25614-1
40801	Carbon Steel	Stainless Steel	PC-24900-2
40802	Carbon Steel	Stainless Steel	PC-24901-2
40803	Carbon Steel	Stainless Steel	PC-24902-2
40804	Carbon Steel	Stainless Steel	PC-24903-2
40805	Carbon Steel	Stainless Steel	PC-24904-2
40806	Carbon Steel	Stainless Steel	PC-24905-1
40807	Carbon Steel	Stainless Steel	PC-24906-1
40808	Carbon Steel	Stainless Steel	PC-24907-1
40809	Stainless Steel	----------	PC-24908-2
40810	Stainless Steel	----------	PC-24909-1
40811	Stainless Steel	----------	PC-24910-3
40812	Stainless Steel	----------	PC-24911-2
40813	Stainless Steel	----------	PC-24912-3
40814	Inconel	----------	PC-24913-2
40815	Inconel	----------	PC-24914-3
40816	Inconel	----------	PC-24915-2
40817	Inconel	----------	PC-24916-3
40818	Stainless Steel	----------	PC-24917-3
40819	Carbon Steel	----------	PC-24918-2
40820	Stainless Steel	----------	PC-24919-2
40821	Inconel 600	----------	PC-24987-1
40823	Carbon Steel	----------	PC-25561-0
40824	Carbon Steel	----------	C6370501090-UT-51
40825	Carbon Steel	----------	D6370501058-UT-48
40826	Carbon Steel	----------	PC-25612-0
40828	Carbon Steel	Stainless Steel	PHD-30116
40829	Carbon Steel	----------	PHD-30115
40830	Carbon Steel	Stainless Steel	PHD-30117
40831	Carbon Steel	----------	PC-25676-1
40834	Carbon Steel	----------	PC-25677-0
40836	Carbon Steel	----------	PC-25680-1
40837	Carbon Steel	----------	C6370501080-UT-50
40838	Carbon Steel	----------	PC-25681-1
40840	Stainless Steel	----------	PC-25682-1
40843	Stainless Steel	----------	PC-25675-1
40845	Stainless Steel	----------	PC-25679-2
40846	Stainless Steel	----------	PC-25641-1
40848	Stainless Steel	----------	PC-25678-0
40849	Stainless Steel	----------	PC-25683-0
40850	Inconel 600	----------	PC-25684-0
40851	Inconel 600	----------	PC-25685-0
40852	Stainless Steel	----------	1121229B-0
40853	Stainless Steel	----------	1121230B-0

LIST OF CALIBRATION STANDARDS
(continued)

CALIBRATION STANDARD NUMBER	MATERIAL TYPE	CLAD	DRAWING NUMBER
40854	Stainless Steel	----------	1121231B-0
40855	CS, SA540 GR23	----------	1122837B-1
40856	CS, SA320 L43	----------	C6370501-102-01
40857	CS, SA320 L43	----------	C6370501-121-01
40858	CS, SA320 L43	----------	C6370501-122-01
40859	CS, SA320 L43	----------	C6370501-123-01
40860	CS, SA540 GR23	----------	C6370501-124-01
40861	CS, SA540 GR23	----------	PC-25612B-4
40863	CS, A193B7	----------	C6370501-125-01
40864	SS, A312 or 376	----------	1122840B-1
40865	SS, A312 or 376	----------	1122841B-2
40866	CS, N/A	----------	C6370501-126-01
40867	SS, N/A	----------	1122980C-0
40868	CS, N/A	----------	C6370501-127-01
40869	CS, N/A	----------	C6370501-128-01
40870	N/A	----------	C6370501-129-01
40872	CS, N/A	----------	C6370501-130-01
40900	CS, SA533 GR-B	Stainless Steel	1135870C-1
40901	CS, ASTM 508-64 CL-2	Stainless Steel	1135871C-1
40902	CS, ASTM 508-64 CL-2	Stainless Steel	1135872C-1
40903	CS, ASTM 508-64 CL-2	Stainless Steel	1135873C-1
40904	SS, SA376 TY-316	----------	1135874C-1
40905	CS, ASTM 508-64 CL-2	Stainless Steel	1135875B-1
40906	CS, A508 C1-2	Stainless Steel	1135876B-1
49030	INC, SB-163	----------	1135953B-0
49031	INC, SB-163	----------	1135952B-0

PC-25614-1

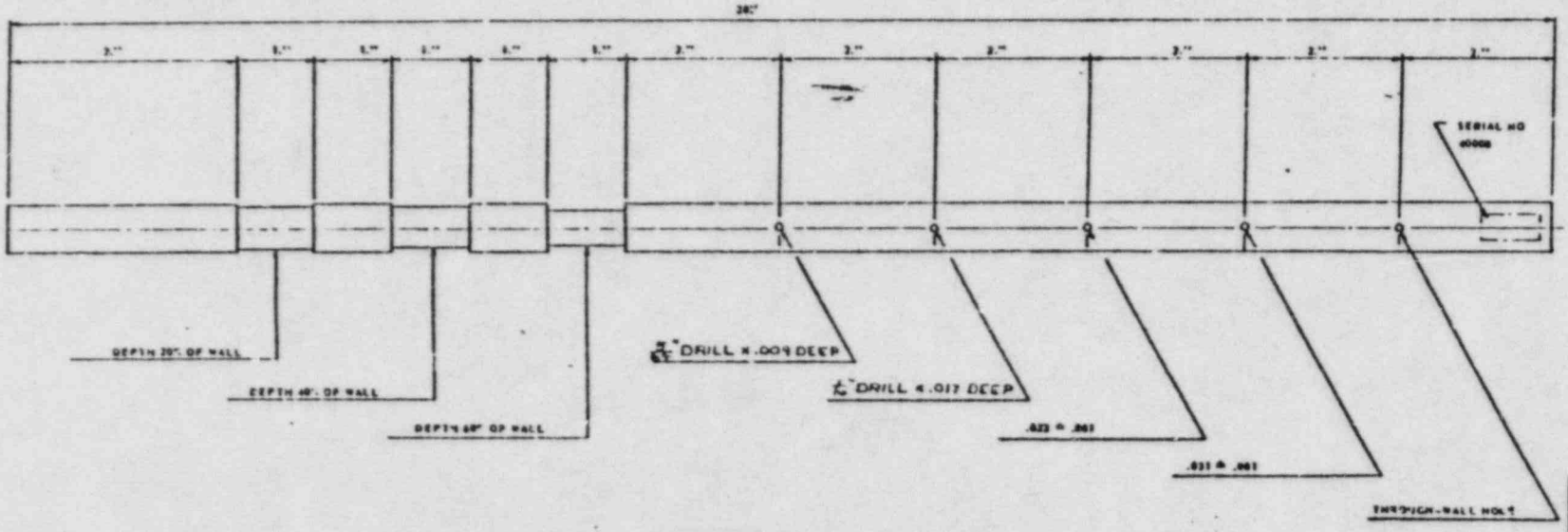
THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

B&W CONSTRUCTION COMPANY

REVISIONS			MICROFILM
BLOCK NO.	DATE	DESCRIPTION	BY & DATE
1	3/31/78	CHANGED NOTE #3 AND HOLE DIA. & DEPTH ON 20% & 40% HOLES DLW	DLW

NOTES:

1. MATERIAL IS INCONEL 600
   5/8" O.D. TUBING WALL THICKNESS - .031" NOMINAL, .034" MINIMUM
2. MAINTAIN TOLERANCE OF 1/16", UNLESS NOTED.
3. ALL HOLES TO BE #60 DRILL EXCEPT AS NOTED.
4. DRILLED HOLES ARE TO GET FLAT BOTTOMED.
   DEPTHS OBSERVED USING 0.031" DIAMETER FLAT PROBE.

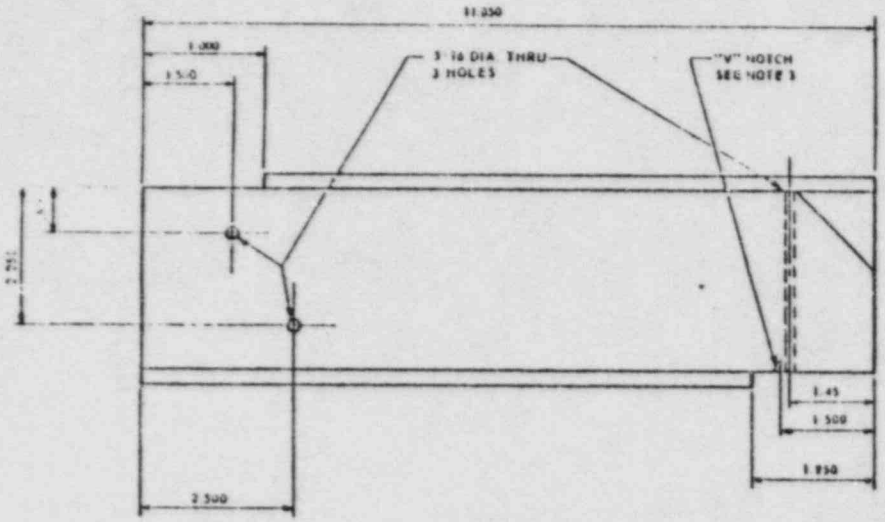


FOR B&W CONSTRUCTION COMPANY

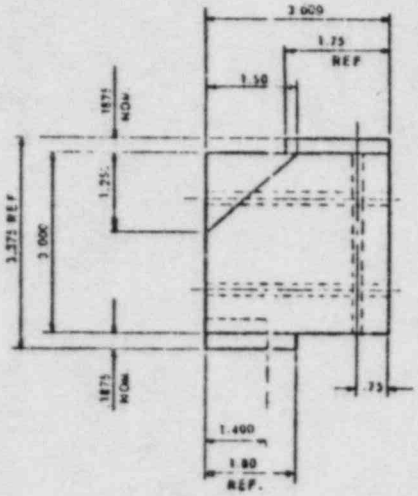
DRWN BY TSP	CHK'D BY EBC	OTSG ET CALIBRATION STANDARD	PC-25614-1
DATE 3/24/78	APP'D BY ERH	SERIAL NO. 40008	

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			DESCRIPTION
ITEM NO.	DATE	DESCRIPTION	ORIGINAL
1	12 14 76	DRAWING CORRECTED PER EXISTING BLOCK	
2	4 12 77	CORRECTION OF DIMENSIONS	



SIDE VIEW



END VIEW

NOTES

1. MATERIAL, CARBON STEEL, SA515GR70.
2. CLADDING THICKNESS 3/16" NOMINAL, 308SS.
3. "V" NOTCH, 0.60" DEEP BY 1.4" LONG.
4. WAS BLR BLOCK #1.

PROJECT NO. 192 684 006

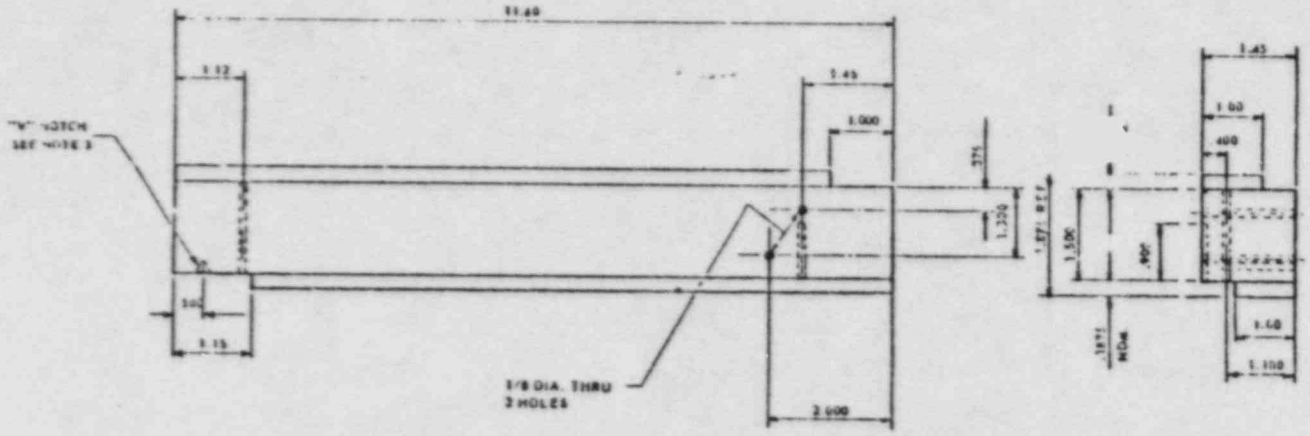
DRWN BY E. J. M.	CHK'D CAH
DATE 3 16 76	APP'D C.E.

APSL, ARKANSAS NUCLEAR ONE, UNIT 1 - CALIBRATION BLOCK 24(H0)

PC 24910-2

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED
1	12 74	DRAWING CORRECTED PER EXISTING BLOCK	
2	4 12	CORRECTION OF DIMENSION	



NOTES:

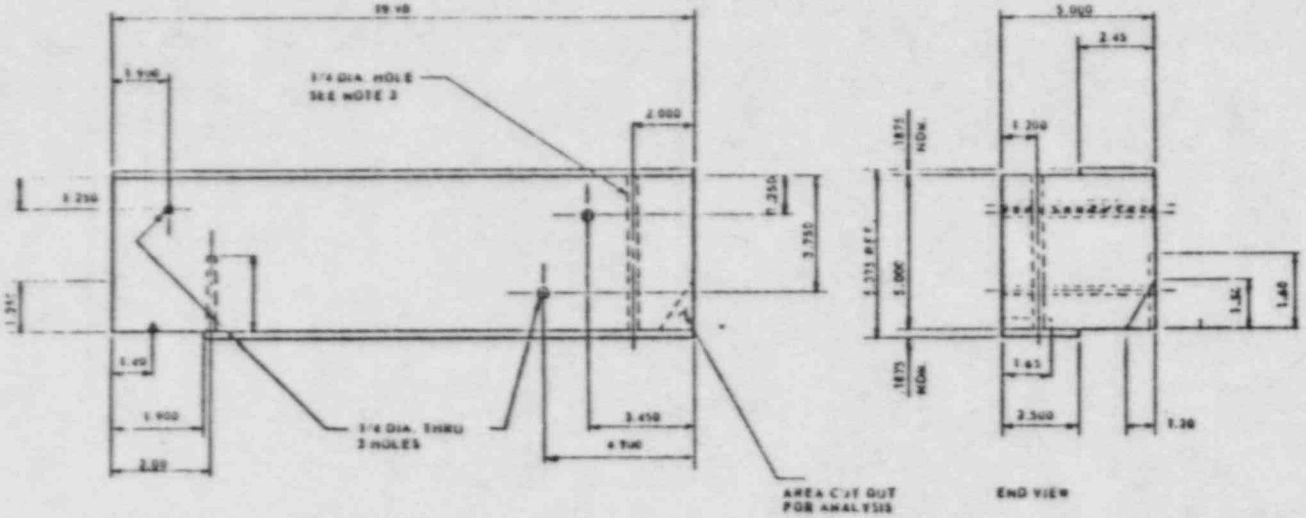
1. MATERIAL CARBON STEEL, SA515 GR 70.
2. CLADDING THICKNESS 3/16" NOMINAL, 308 SS.
3. "V" NOTCH, 0.125" DEEP.
4. WAS BLR BLOCK #2.

PROJECT NO. 192-011-000

DRAWN BY & DATE: 3-16-76	CHECKED BY: CRI	AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK #40802	SCALE & TOLERANCE: PC-24901-2
	APPROVED BY: CRI		

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

NO.	DATE	DESCRIPTION	BY
1	12 14	DRAWING CORRECTED FOR EXISTING BLOCK	
2	4 12 91	CORRECTION OF DIMENSIONS	



NOTES:

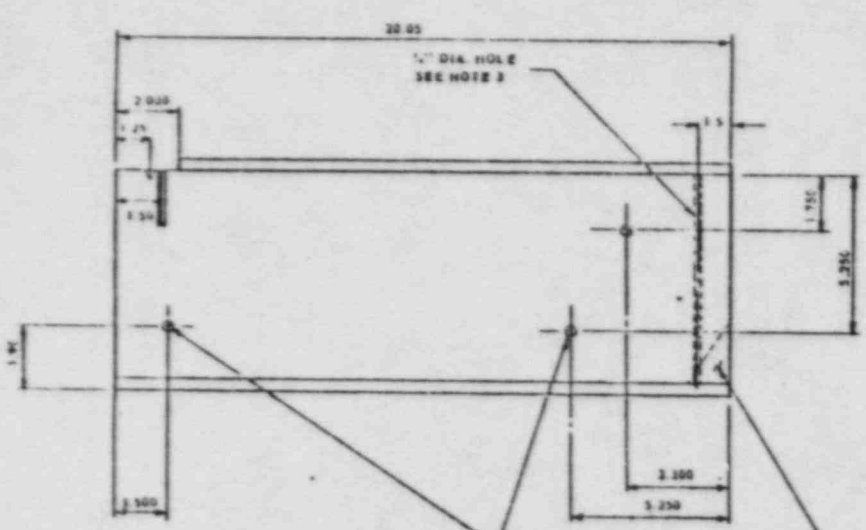
1. MATERIAL, CARBON STEEL, SA 515 GR 70.
2. CLADDING THICKNESS 3/16" NOMINAL, 308 SS.
3. HOLE DRILLED TO CLAD.
4. "V" NOTCH, 0.150" DEEP BY 1.0 LONG.
5. WAS BLH BLOCK #3.

PROJECT NO. 192 034 006

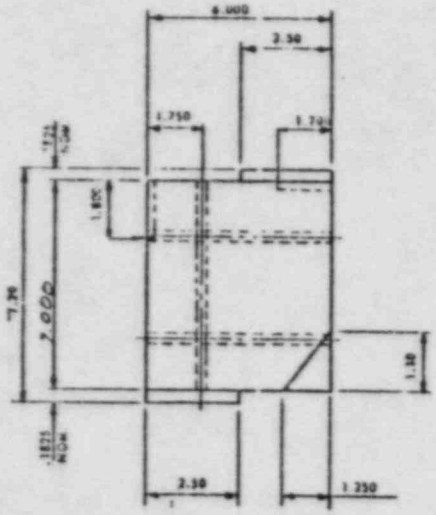
	DRN. BY L.J.M	APP'D C.R.H	AP&L, ARKANSAS NUCLEAR ONE, UNIT -1 - CALIBRATION BLOCK 90803
	DATE 3 16 92	APP'D C.R.H	PC-24902-2

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			
BLOCK NO.	DATE	DESCRIPTION	APPROVAL
1	12 14 76	DRAWING CORRECT FOR EXISTING BLOCK	
2	4 12 77	CORRECTION OF DIMENSIONS	



SIDE VIEW



END VIEW

NOTES:

1. MATERIAL CARBON STEEL, SA 515 GR 70.
2. CLADDING THICKNESS 3/16" NOMINAL, 308 SS.
3. HOLE DRILLED TO CLAD.
4. "V" NOTCH 0.10" DEEP BY 1.0 LONG.
5. W4S BLR BLOCK #4.

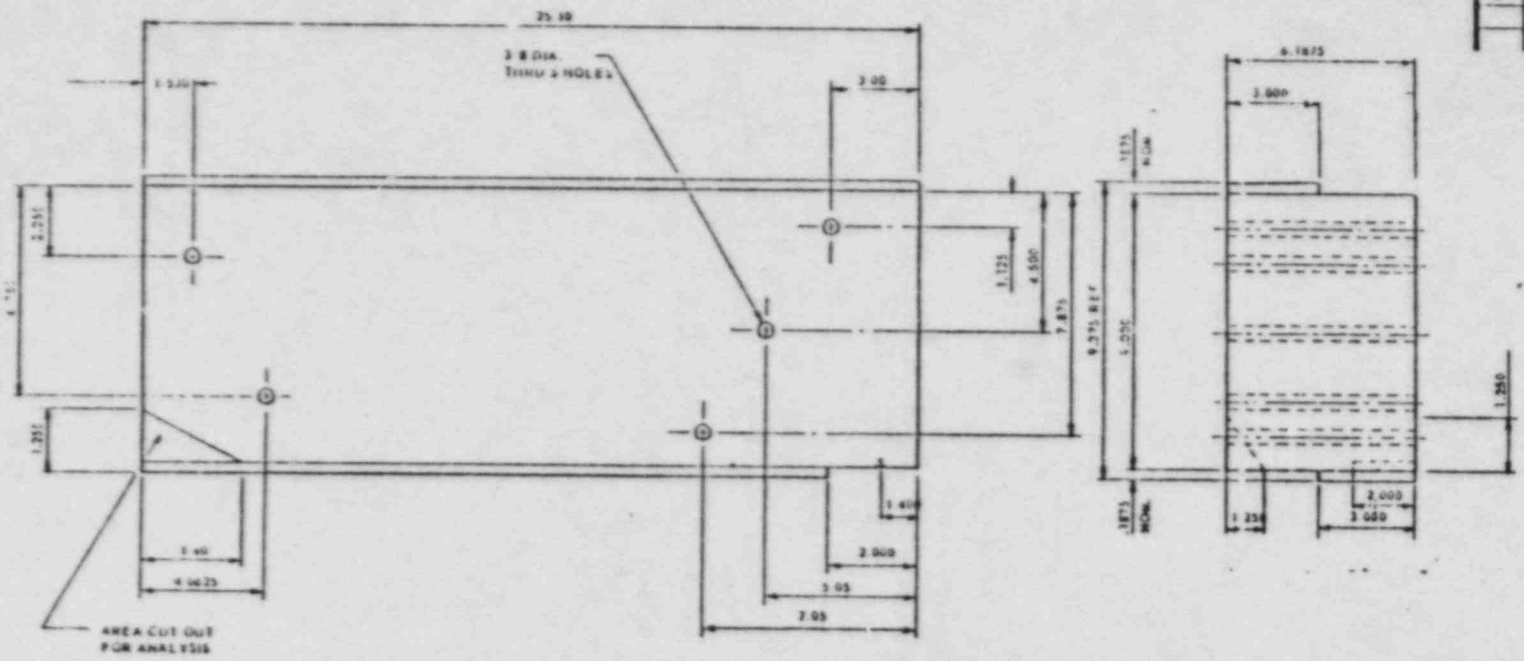
PROJECT NO. 192 034-UI6

DRAWN BY L JNS	CHKD CRI	AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK 40804	SIZE D
DATE 3 30 78	APPD CRI		PC-24903-2

0157044044

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED
1	12 14 76	DRAWING CORRECTED PER EXISTING BLOCK	
2	4 12 77	CORRECTION OF DIMENSIONS	



SIDE VIEW

END VIEW

NOTES

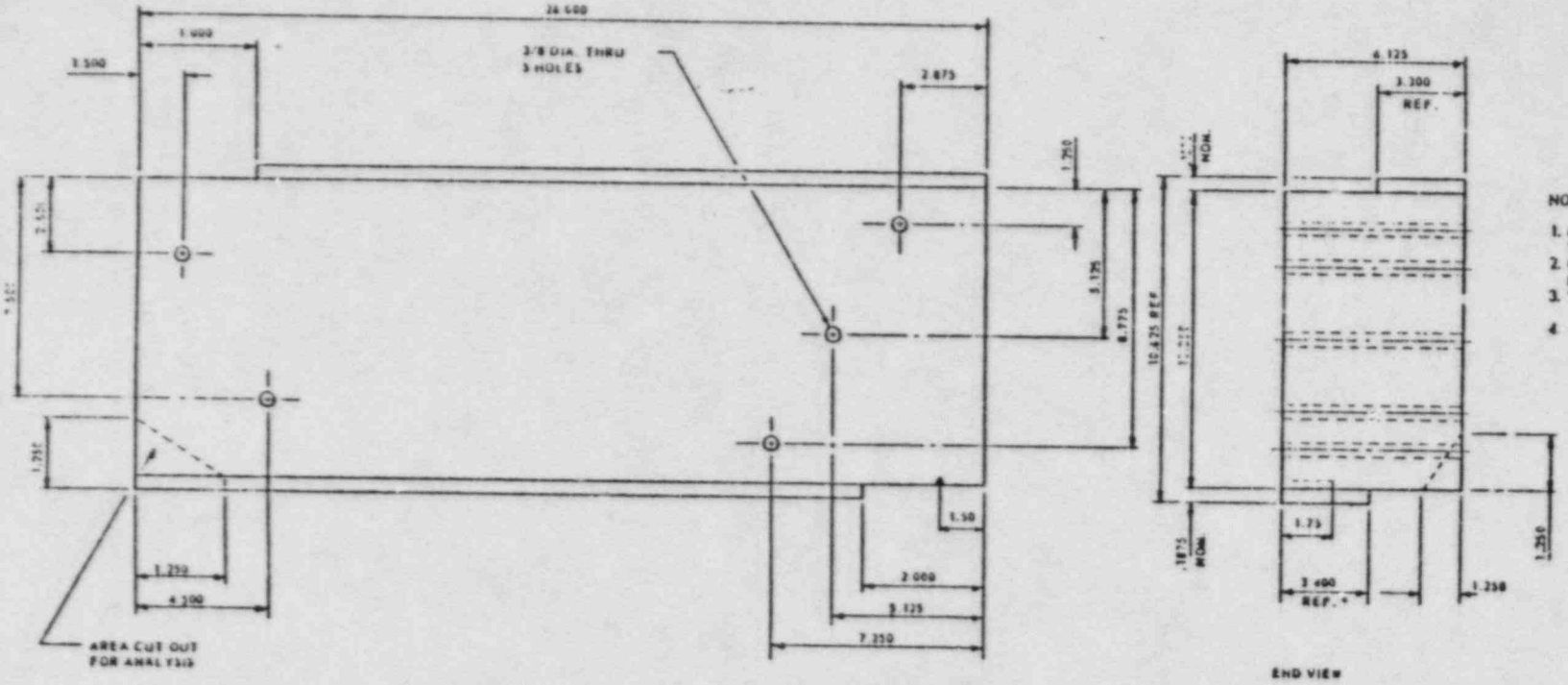
1. MATERIAL CARBON STEEL, SA 515 GR 70.
2. CLADDING THICKNESS 3 16" NOMINAL, 308 SS.
3. "V" NOTCH 0.270" DEEP BY 20° INCL.
4. WAS BLK BLOCK #5.

PROJECT NO. 192-034-006

DRWN BY E. J. NE	CHKD CRA	AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK - 40805	SCALE 1
DATE 3 16 76	APPD CRA		PC-24904-2

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			
		DESCRIPTION	
1	12 14 73	DRAWING CORRECTED PER EXISTING BLOCK	



NOTES

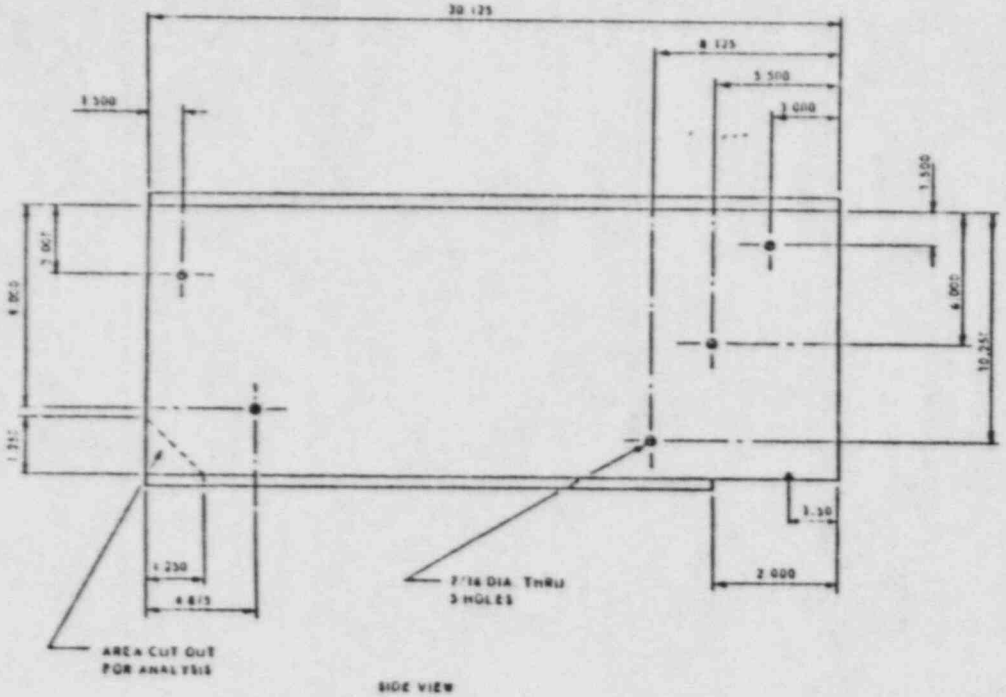
1. MATERIAL, CARBON STEEL, SA 302 GR B
2. CLADDING THICKNESS 3/16", NOMINAL, 308 SS
3. "V" NOTCH, 0.250" DEEP BY 1.75" LONG
4. WAS BLR BLOCK #6.

PROJECT NO. 192-034-006

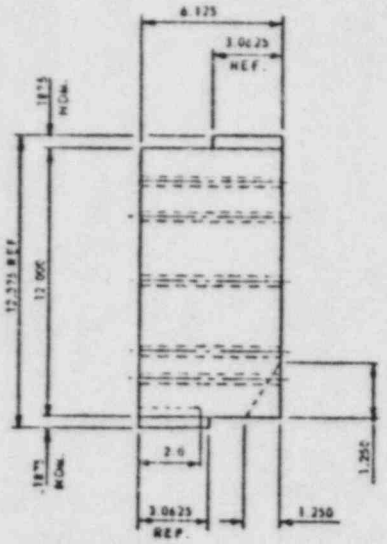
DRWN BY SAV	CHK'D CRJ	AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK #40806	SHEET 2
DATE 3-16-76	APP'D CRJ		PC-24905-1

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			
BLOCK NO.	DATE	DESCRIPTION	APPROVED
1	12 14	DRAWING CORRECTED PER EXISTING BLOCK	



SIDE VIEW



END VIEW

NOTES:

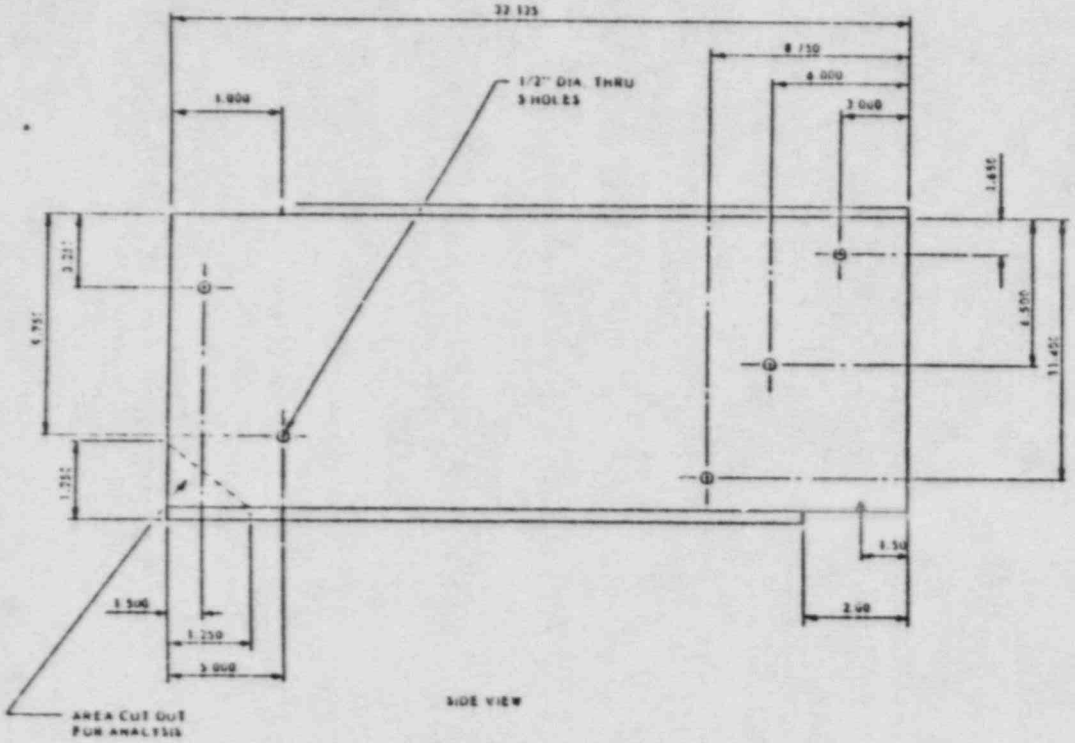
1. MATERIAL - CARBON STEEL, SA 515 GR 70.
2. CLADDING THICKNESS 3/16" NOMINAL, 308 SS.
3. "V" NOTCH, 1.330" DEEP BY 20° INCLUDED
4. WAS BLR BLOCK #7.

PROJECT NO. 192-034-006

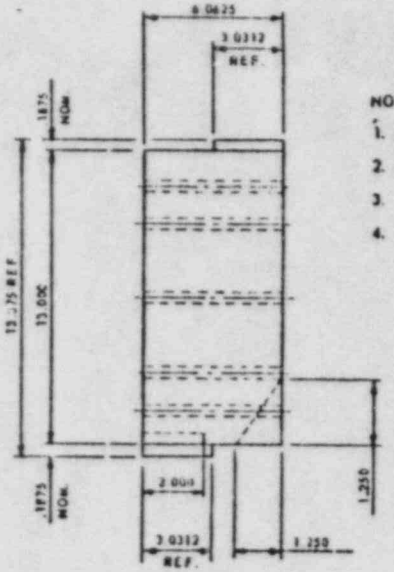
DRAWN: L. J. M.	CHKD: C.R.M.	AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK #40807	SCALE: 1/2
DATE: 3/16/76	APPD: C.R.M.		PC 24906-1

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			ORIGINATOR
SYMBOL	DATE	DESCRIPTION	ORIGINAL
1	12 14 76	DRAWING CORRECTED FOR EXISTING BLOCK	



SIDE VIEW



2ND VIEW

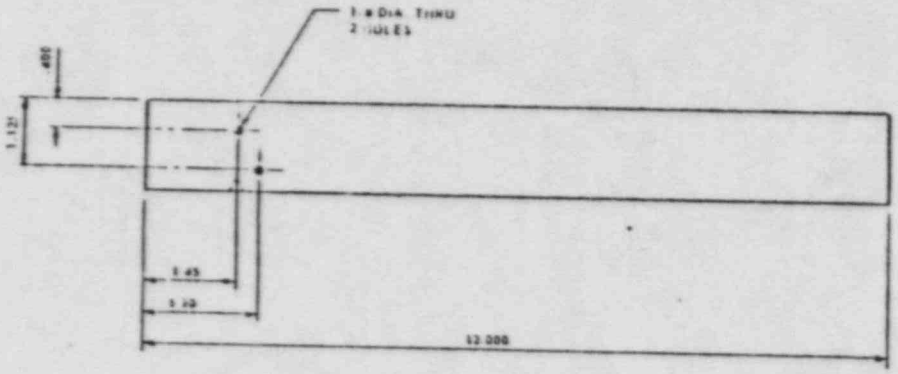
NOTES:
1. MATERIAL CARBON STEEL, SA 302 GR B
2. CLADDING THICKNESS 3/16" NOMINAL, 308 SS
3. "V" NOTCH 0.375 DEEP BY 20° LONG
4. WASTLR BLOCK #8

PROJECT NO. 192-033-006

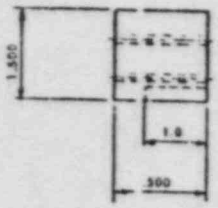
DRAWN W.S.J. 10-75	CHKD CRT	AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK #10308	SCALE 1/2
DATE 3-16-76	APPD CRH		PC-24907-1

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED
1	12 14 78	DRAWING CORRECTED PER EXISTING BLOCK	
2	4 12 79	CORRECTED DIMENSIONS	



SIDE VIEW



END VIEW

NOTES.

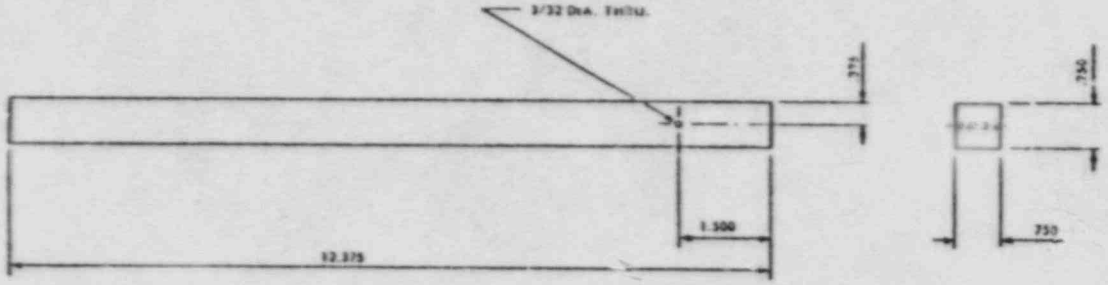
1. MATERIAL, STAINLESS STEEL, SA 240 - TP 304.
2. NO CLADDING.
3. "V" NOTCH, 0.045" DEEP BY 90° LONG.
4. WAS BLR BLOCK #9.

PROJECT NO. 192-034 006

DRAWN BY L. J. M.	CHK'D C.R.L.	AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK #40809	SCALE NONE
DATE 3-16-78	APP'D C.R.L.		DWG. NO. PC-24908-2

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			
SYM	DATE	DESCRIPTION	APPROVED
1	12 14 76	DRAWING CORRECTED PER EXISTING BLOCK	



SIDE VIEW

END VIEW

NOTES:

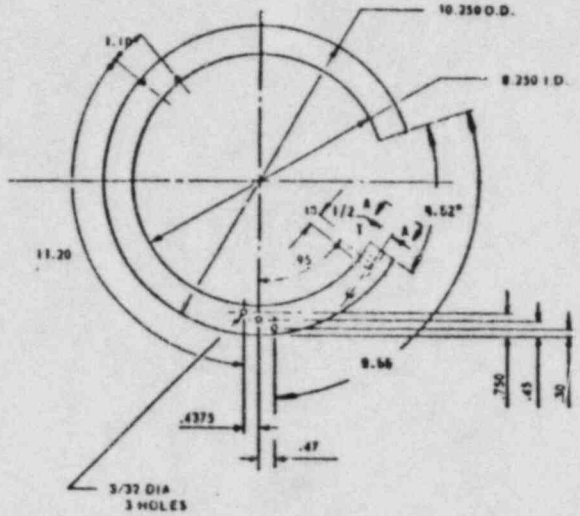
1. MATERIAL, STAINLESS STEEL.
2. NO CLADDING.
3. WAS BLH BLOCK - 10

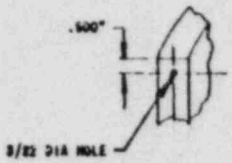
PROJECT NO. 192-031-006

	DRAWN CRH	AP&L, ARKANSAS NUCLEAR ONE	
	DATE 2 11 76	APP'D CRH	UNIT #1 - CALIBRATION BLOCK #40810	PC 24909 1

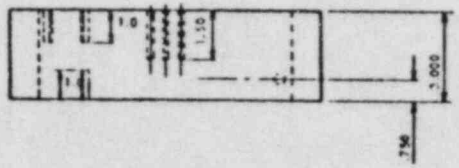
THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS				MICROFILM
BLOCK NO.	DATE	DESCRIPTION		ORIGINAL
1	12 24 75	DRAWING CORRECTED PER EXISTING BLOCK		
2	4 22 76	CORRECTION OF DIMENSIONS		
3	5/17/76	REV. SLOT WIDTH		





VIEW A-A



3/16 D.A. HOLE
1/2 T.P.
FLAT BOTTOMED

NOTES:

1. MATERIAL, STAINLESS STEEL, SA 240 TP 304
2. NUCLEONICS
3. "V" NOTCH, 0.030" DEEP BY 1.0 LONG, ON OD
4. "V" NOTCH, 0.030" DEEP BY 1.0 LONG, ON ID
5. WAS BEAR BLOCK #11.

PROJECT NO. 192-034-006

DRAWN BY L. J. M. | CHKD. C.R.I. | DATE 3-16-76 | APP'D. C.R.I.

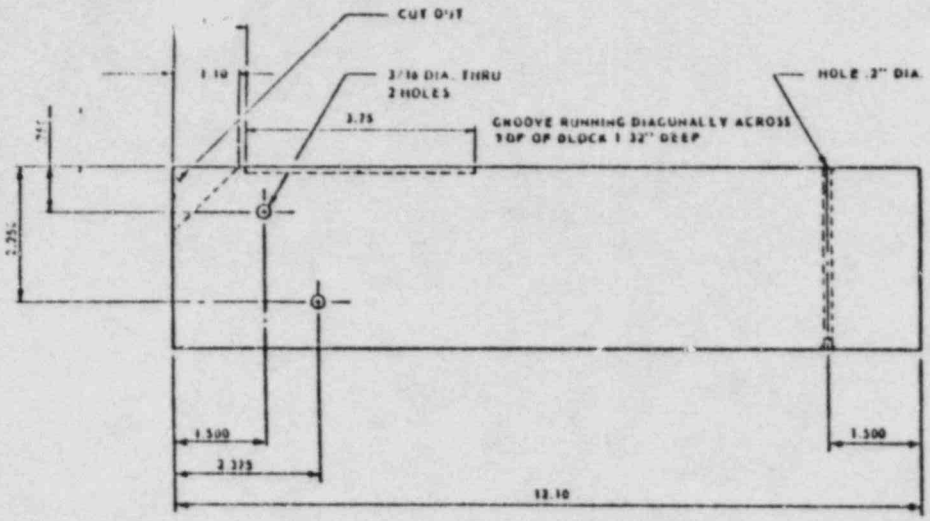
AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK #40811

SCALE 3 | PC-24910-3

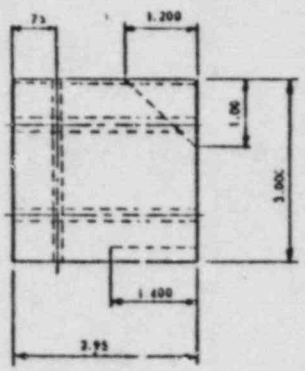
BRUNING 17991

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISION S			
BBW NO.	DATE	DESCRIPTION	APPROVAL
1	12 3 76	DRAWING CONNECTED PER EXISTING BLOCK	
2	4 12 77	CORRECTION OF DIMENSIONS	



SIDE VIEW



END VIEW

NOTES:

1. MATERIAL, STAINLESS STEEL, SA 240 TP 304.
2. NO CLADDING.
3. "V" NOTCH, 0.090" DEEP BY 1.4" LONG.
4. WASHER BLOCK #12.

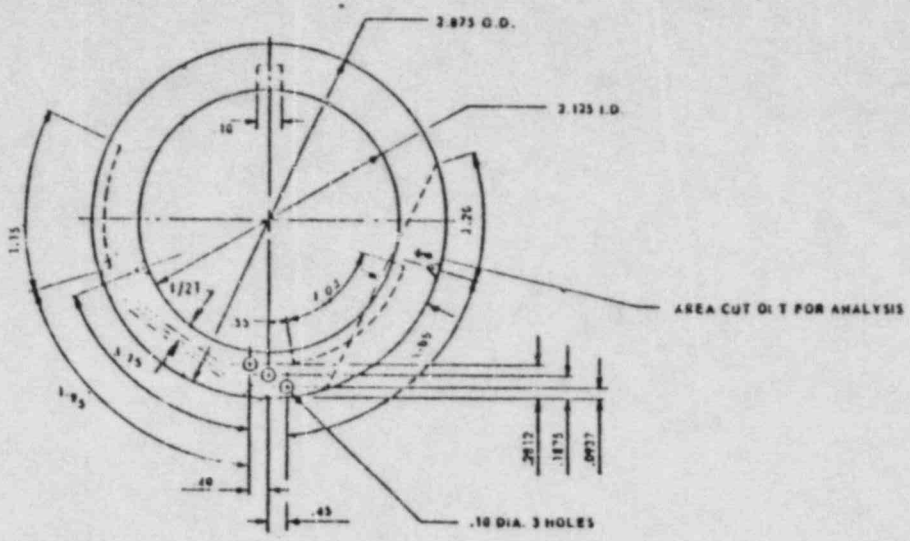
PROJECT NO. 192-034-006

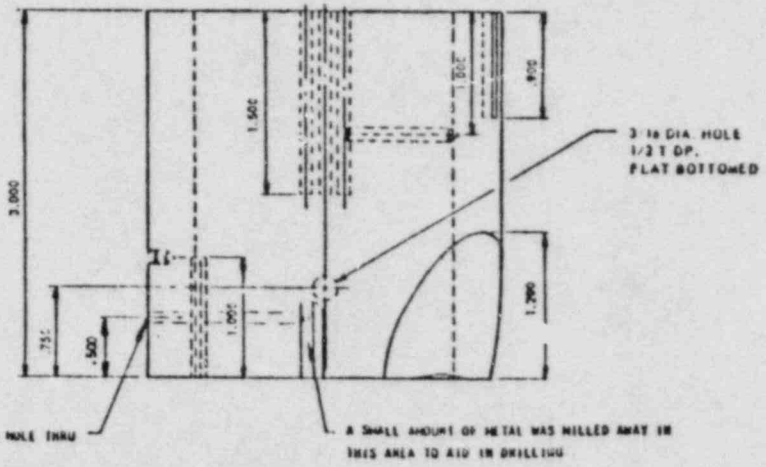
DRWN BY L J M	CHKD C R Y	AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK #40812	SIZE E
DATE 3-16-76	APPD C R Y		PC-24911 2

BROWNING 17991

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			MICROFILM
NO.	DATE	DESCRIPTION	ORIGINAL
1	12 16	DRAWING CORRECTED PER EXISTING BLOCK	
2	4 12 7	CORRECTED 4 UP DIMENSIONS	
3	2/17/	ADDED 3/32 DIA HOLE	





NOTES

1. MATERIAL STAINLESS STEEL, SA 240 - TP 304.
2. NO CLADDING
3. TWO "V" NOTCHES, 0.014" DEEP
4. TWO "V" NOTCHES, 0.014" DEEP
5. WAS BL 4 BLOCK #13.

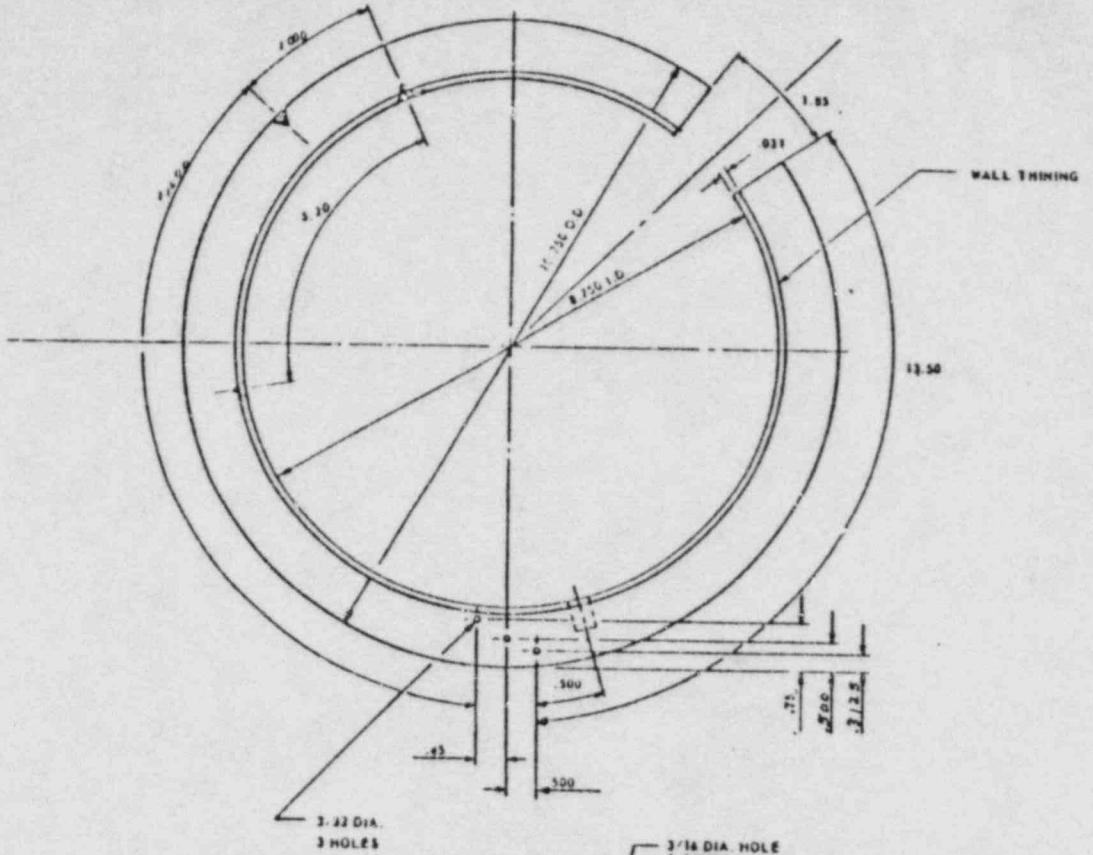
PROJECT NO. 192 034-006

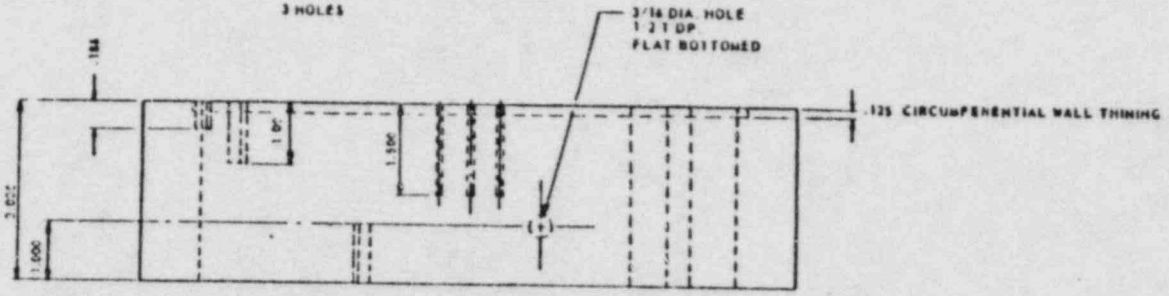
DRAWN BY L. J. M.	CHKD CRL	AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK #40813	SCALE 12
DATE 3-16-76	APP'D CRL		PC-24912-3

BABCOCK & WILCOX 17561

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS				MICROFILM
BLOCK NO.	DATE	DESCRIPTION	ORIGINAL	
3	12 14 76	CHANGE CORE CLEARANCE PER EXISTING BLOCK		
2	4 12 76	CORRECTION OF DIMENSIONS		





NOTES:

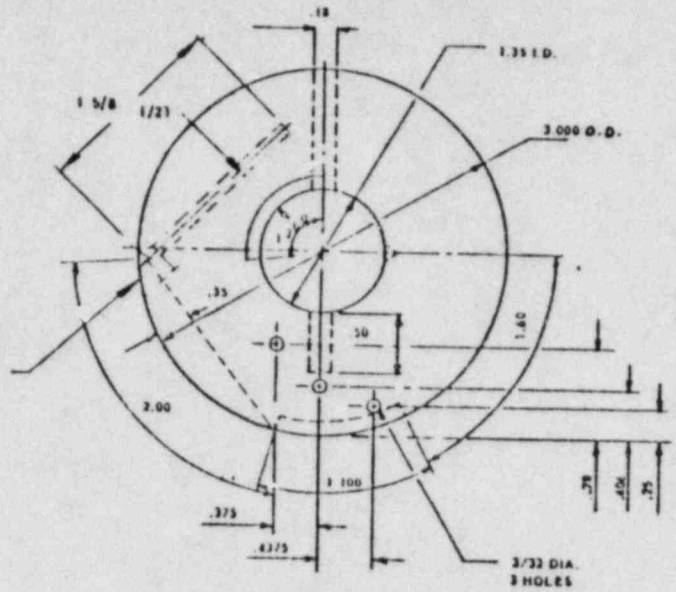
1. MATERIAL, INCONEL, SB 166.
2. NO CLADDING.
3. "V" NOTCH, 0.040" DEEP BY 1.0 LONG, ON OD.
4. "V" NOTCH, 0.040" DEEP BY 1.0 LONG, ON ID.
5. WAS BLR BLOCK #14.

PROJECT NO. 77-034-006

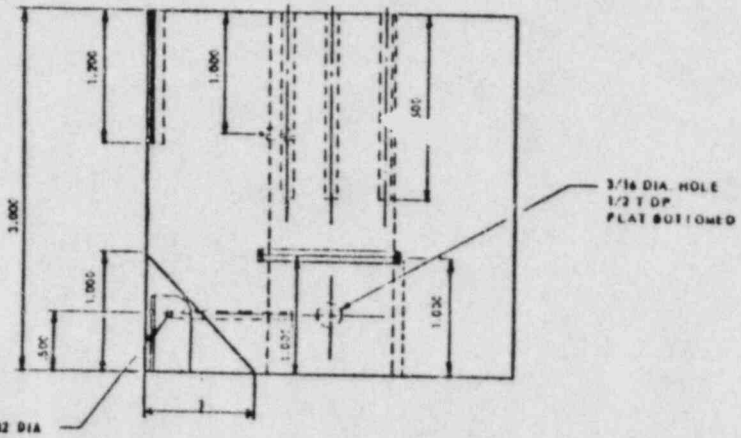
DRAWN BY J.M.S.	CHKD BY C.R.N.	APSL, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK, 40814	FC-24913-2
DATE 3 16 76	APP'D C.R.N.		

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

NO.	DATE	REVISIONS DESCRIPTION	APPROVED
1	12 16 76	DRAWING CORRECTED FOR EXISTING BLOCK	
2	4 12 77	CORRECTION OF DIMENSIONS	
3	2/17/81	ADDED 3/32 DIA HOLE	



A SMALL AMOUNT OF METAL WAS MILLED AWAY IN THIS AREA TO AID IN DRILLING.



NOTES:

1. MATERIAL, INCONEL, SB 166.
2. NO CLADDING.
3. TWO "V" NOTCHES, 0.025" DEEP.
4. TWO "V" NOTCHES, 0.025" DEEP
5. WAS BLR BLOCK #15

DRAWN L J N1 DATE 3 16 76
CHECK CRL APPR CRH

PROJECT NO. 192-034-008

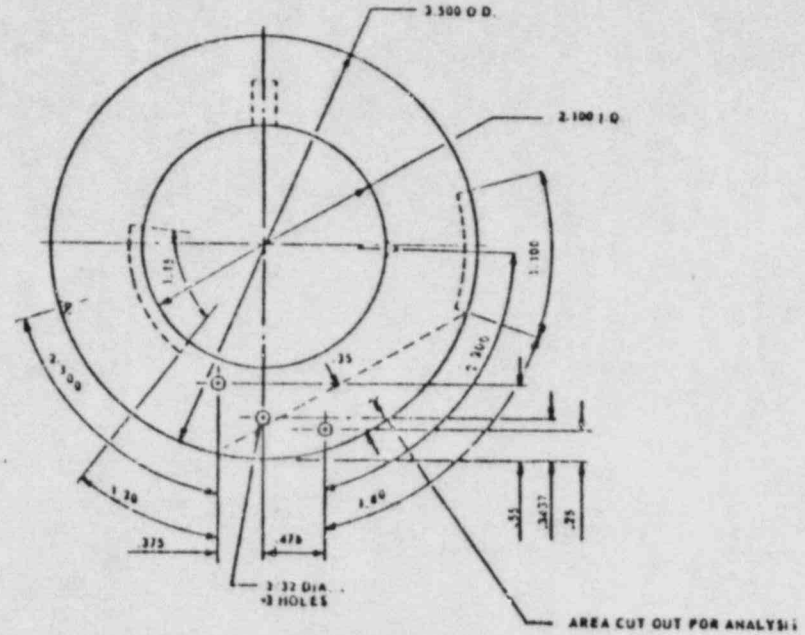
AP&L, ARKANSAS NUCLEAR ONE,
UNIT #1 - CALIBRATION BLOCK #40815

PC-24914 3

BRUNING 1995

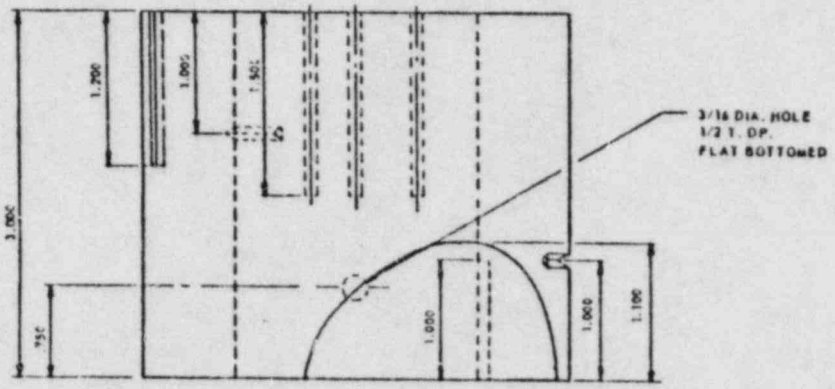
THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			MICROFILM
ITEM NO.	DATE	DESCRIPTION	ORIGINAL
1	12 14 76	DRAWING CORRECTED PER EXISTING BLOCK	
2	4 12 77	CORRECTION OF DIMENSIONS	



NOTES:

1. MATERIAL, INCONEL, SB 166.
2. NO CL ADDING.
3. TWO "V" NOTCHES, 0.122" DEEP
4. TWO "V" NOTCHES, 0.122" DEEP
5. WAS BLR BLOCK #16.



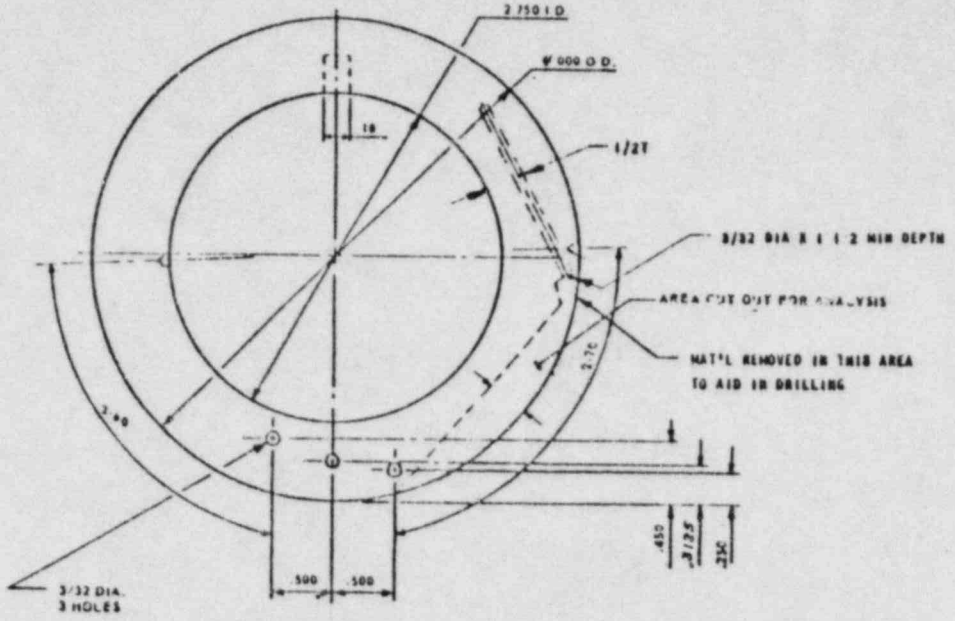
PROJECT NO. 192 334-006

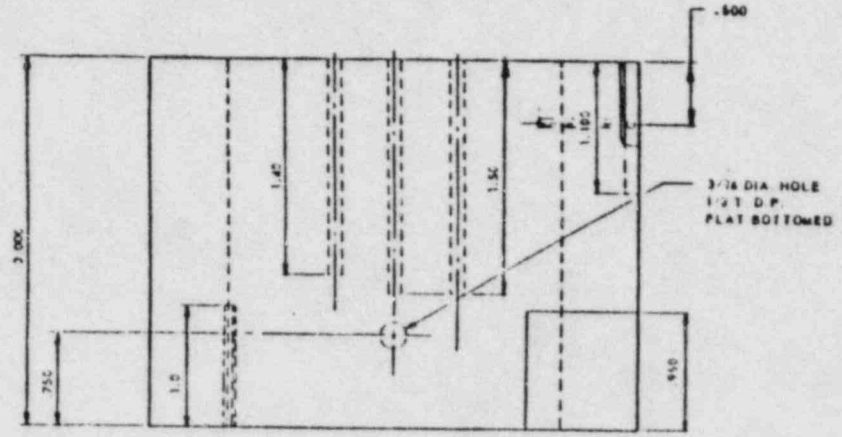
DWN BY L J M	CHK'D C R H
DATE 3 16 76	APP'D C R H

AP&L, ARKANSAS NUCLEAR ONE
UNIT #1 - CALIBRATION BLOCK #10816

SCALE 1/2 — SHEET 1 OF 1 SHEETS

PC-24915-2





THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			MICROFILM
DASH NO	DATE	DESCRIPTION	ORIGINAL
1	12 14 76	DRAWING CORRECTED PER EXISTING BLOCK	
2	4 12 77	CONNECTION OF DIMENSIONS	
3	8-17-81	ADDED 3/32 DIA HOLE, REV. NOTES	

1. MATERIAL, INCONEL, SB 166.
2. DELETED.
3. 11 "V" NOTCHE .020" DEEP BY LONG. ON OD.
4. 10 "V" NOTCHE .020" DEEP BY LONG. ON ID.
5. WAS BLR BLOCK # 7.
6. CONTRACT 568-0341-10-02.
7. CUSTOMER ARKANSAS POWER & LIGHT.
8. DATA BASE #40817

NOTES:

1. TOL FOR:

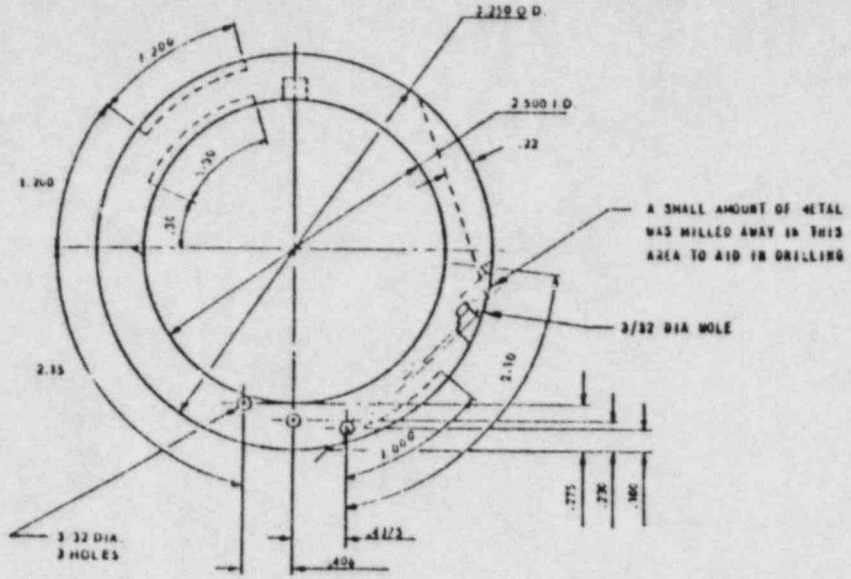
FRACTIONS ± 1/32
.XX = .01
.XXX = .010

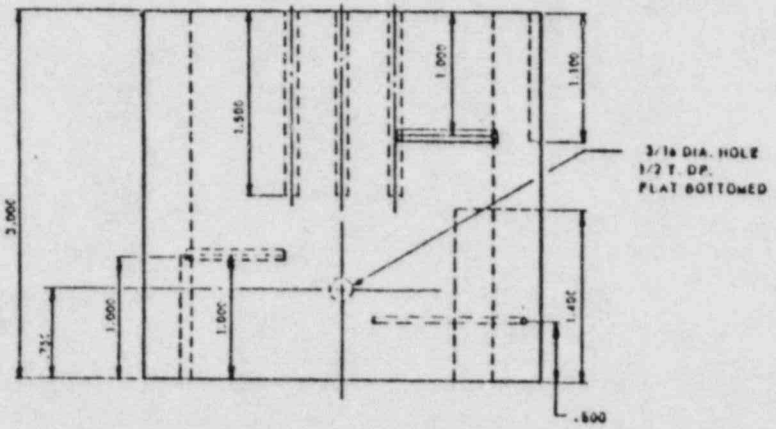
PROJECT NO. 192-034.006

DRAWN BY L J N 1 | CHK'D CRN
DATE 3-16-76 | APP'D CRN

AP&L, ARKANSAS NUCLEAR ONE,
UNIT #1 - CALIBRATION BLOCK #40817

SCALE 1/2 | PC-24916-3





THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			
Mark No.	Date	Description	Initials
1	12 14 7	DRAWING CORRECTED PER EXISTING BLOCK	
2	1 12 72	CORRECTION OF DIMENSIONS	
3	2/12/76	ADDED 3/32 DIA HOLE @ ½ T	

NOTES:

1. MATERIAL, STAINLESS STEEL, SA 240 - TP 304.
2. NO CLADDING.
3. TWO "V" NOTCHES, 0.020" DEEP
4. TWO "V" NOTCHES, 0.020" DEEP
5. WASHER BLOCK #18.

PROJECT NO 192-034 006

DRAWN BY E. J. NS | CHK'D C.R.I.
DATE 3 16 76 | APP'D C.R.I.

AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK #408 IN

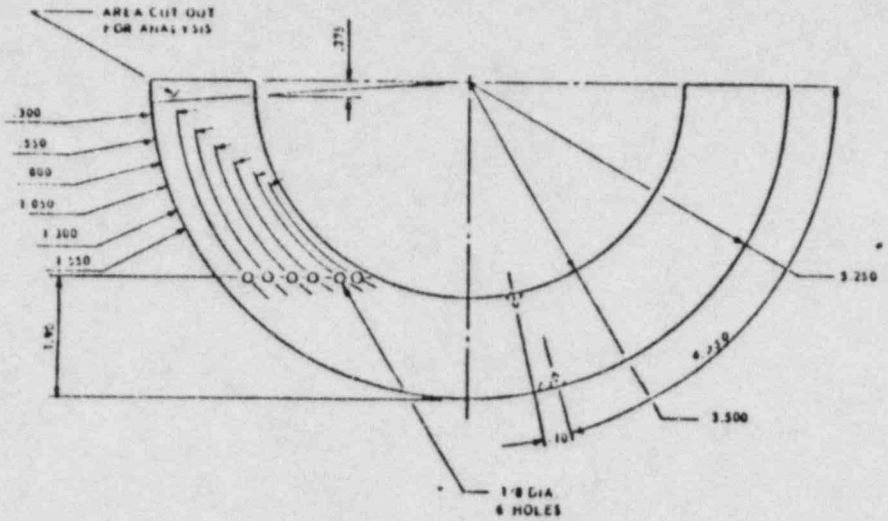
SCALE 1:1 | PC-24917 3

BRUNING 17691

0 1 5 / 0 4 0 5 B

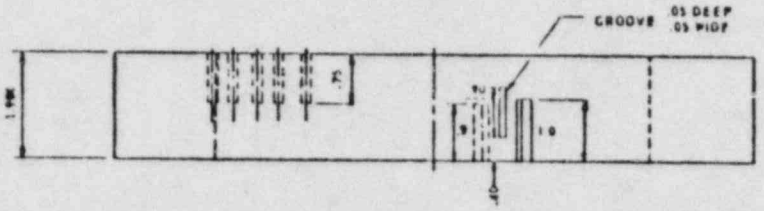
THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			
BLOCK NO	DATE	DESCRIPTION	APPROVED
1	12 14	DRAWING CORRECTED PER EXISTING BLOCK	
2	4 12 77	CORRECTION OF DIMENSIONS	



NOTES:

1. MATERIAL, CARBON STEEL, M 1040.
2. NO FLAKING.
3. ONE "V" NOTCH 0.052" DEEP BY 1.0 LONG, GRIND.
4. ONE "V" NOTCH, 0.052" DEEP BY 9 LONG, ON ID.
5. WAS BLR BLOCK #12.



PROJECT NO. 152-034-006

DRAWN W. J. [illegible] DATE 3-16-76
CHK'D CRF
APP'D CRF

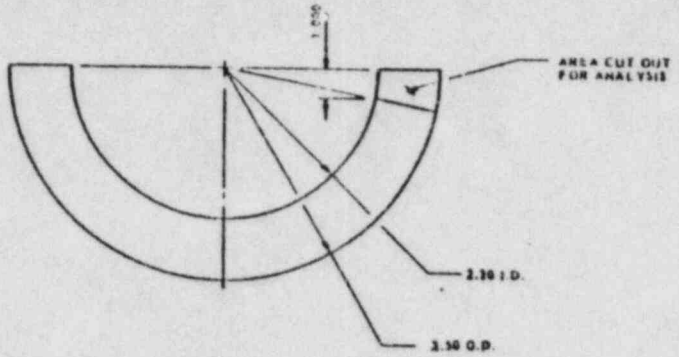
AP&L, ARKANSAS NUCLEAR ONE, UNIT #1 - CALIBRATION BLOCK #40819

SCALE A SHEET 1 OF 1
PC-24918-2

BRUNING 1969

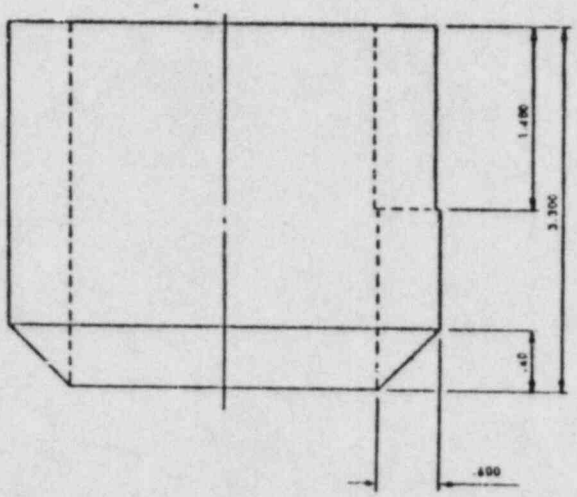
THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			
ITEM NO.	DATE	DESCRIPTION	APPROVED
1	12 3 76	DRAWING CORRECTION PER EXISTING BLOCK	
2	4 12 77	CORRECTED # OF DIMENSIONS	



NOTES:

1. MATERIAL, STAINLESS STEEL, SA 240 - TP 304.
2. NO CLADDING.
3. WAS B&R BLOCK #30.



PROJECT NO. 192 034 006

DRWN BY E J M	CHK'D CRT
DATE 3 16 76	APP'D CRT

AP&L, ARKANSAS NUCLEAR ONE,
UNIT #1 - CALIBRATION BLOCK #90820

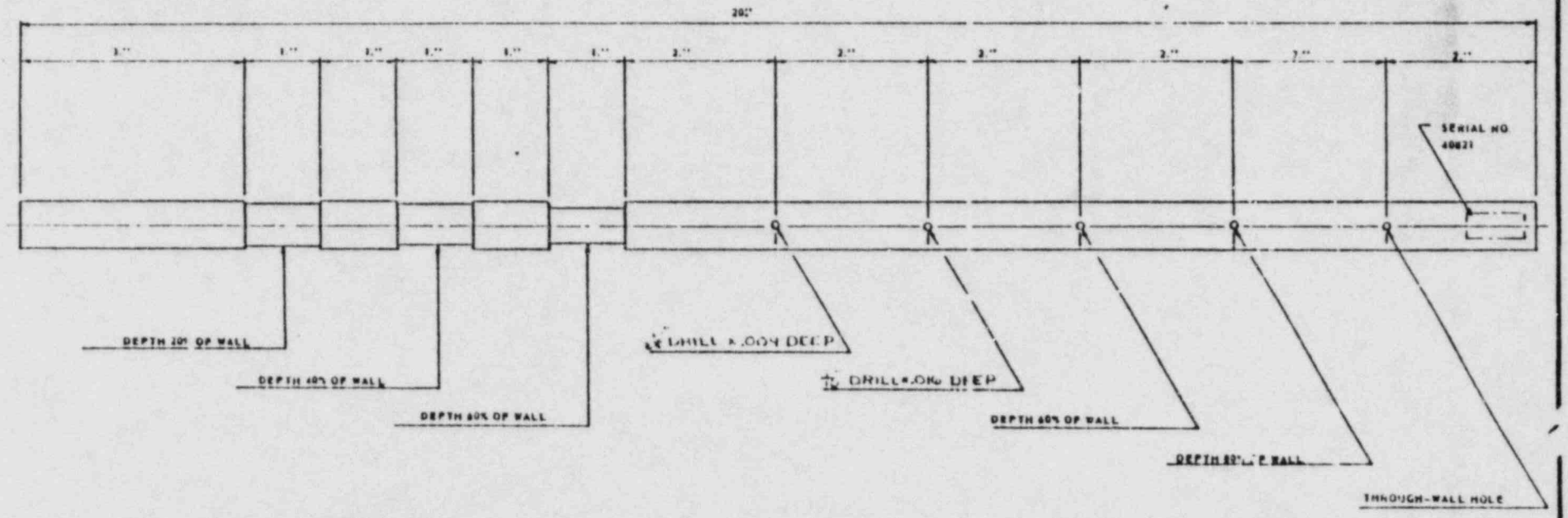
PC-24919-2

BRUNING 1799

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

NOTES

1. MATERIAL IS INCONEL 600
   5/8" O.D. TUBING WALL THICKNESS - .037" NOMINAL, .034" MINIMUM
2. MAINTAIN TOLERANCE OF ± 1/16", UNLESS NOTED
3. ALL HOLES TO BE [illegible]
4. DRILLED HOLES ARE NOT FLAT BOTTOMED
   DEPTHS OBSERVED USING 0.013" DIAMETER FLAT PROBE.



NSS-4 FOR ARKANSAS POWER & LIGHT CO. - ANO, UNIT #1

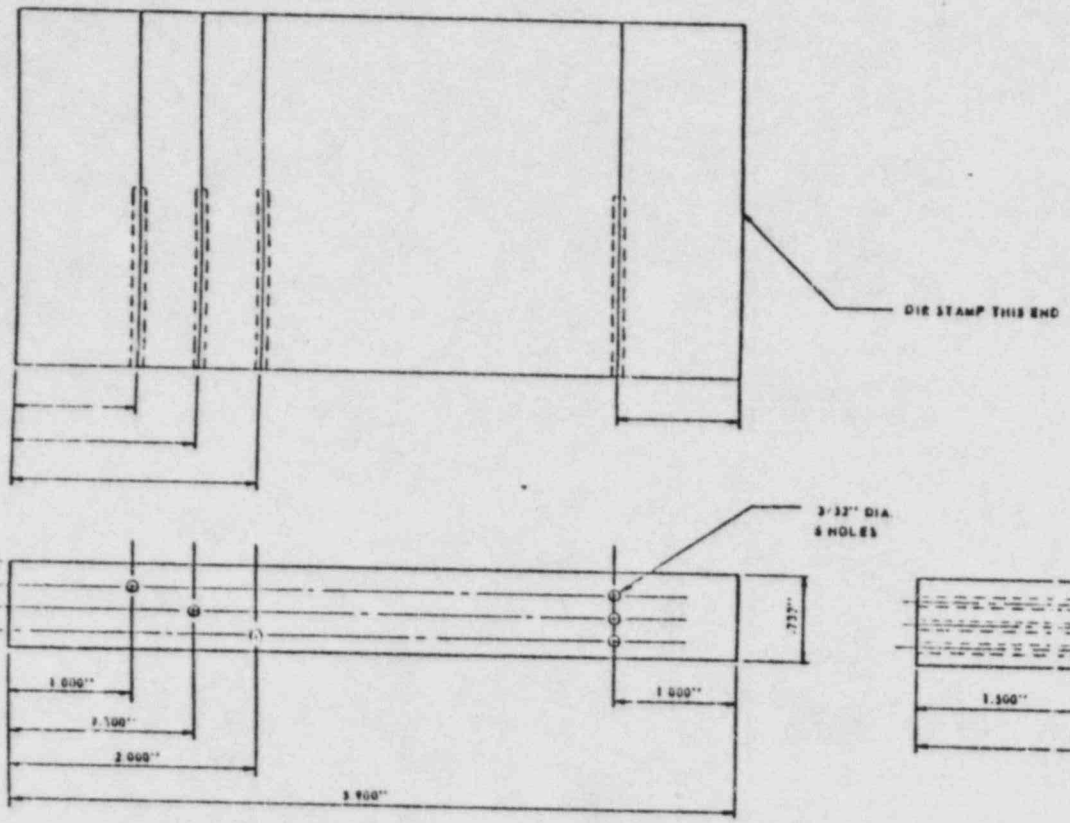
OTSG ET CALIBRATION STANDARD
SERIAL NO 40821

PC-24987-1

8105/04061

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
B&W CONSTRUCTION COMPANY

REVISIONS			MICROFILM
ITEM NO.	DATE	DESCRIPTION	



NOTES:

1. MATERIAL CARBON STEEL
2. SCRIBE LINES TO BE MARKED ACROSS TOP SURFACE AS SHOWN
3. NO CLADDING
4. NO "V" NOTCH

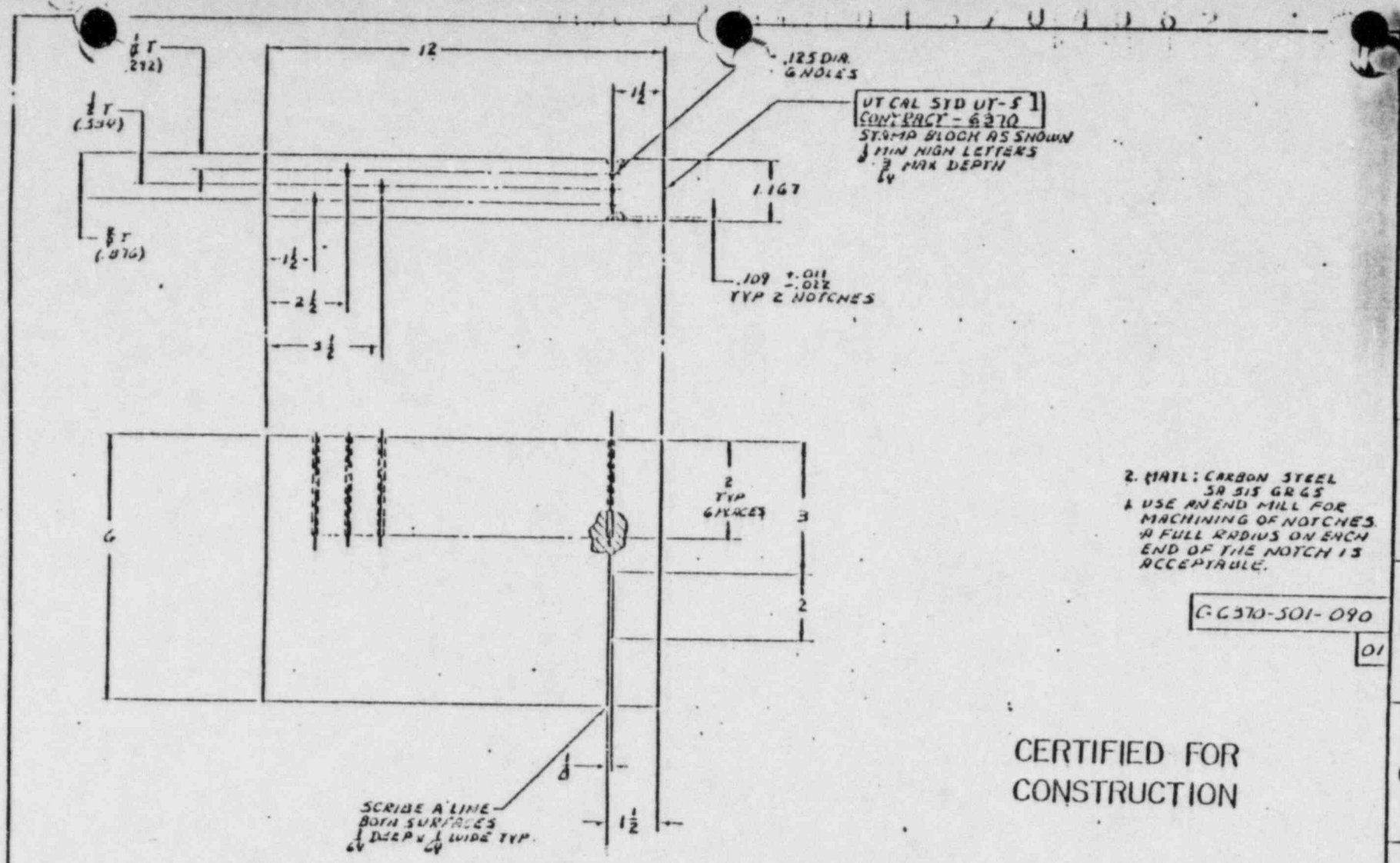
PROJECT NO. 192-034-006

DRAWN BY	CHK'D	APPD
CH	CRH	CRH
DATE 1/15/71		

AP&L ARKANSAS NUCLEAR ONE,
UNIT #1 CALIBRATION BLOCK #40823

SIZE D | DRAWING NO. 12-PC-25561-0

PRINT AS Drawn P.F.



2. MATL: CARBON STEEL SA 515 GR 65
4. USE AN END MILL FOR MACHINING OF NOTCHES. A FULL RADIUS ON EACH END OF THE NOTCH IS ACCEPTABLE.

G-G370-501-090
01

CERTIFIED FOR CONSTRUCTION

DV	DESCRIPTION					
	CERTIFIED FOR CONSTRUCTION PER CCN REQ G370-13					

NUCLEAR POWER SYSTEMS

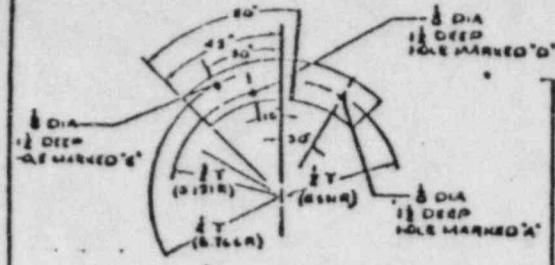
CONTRACT NO 40824

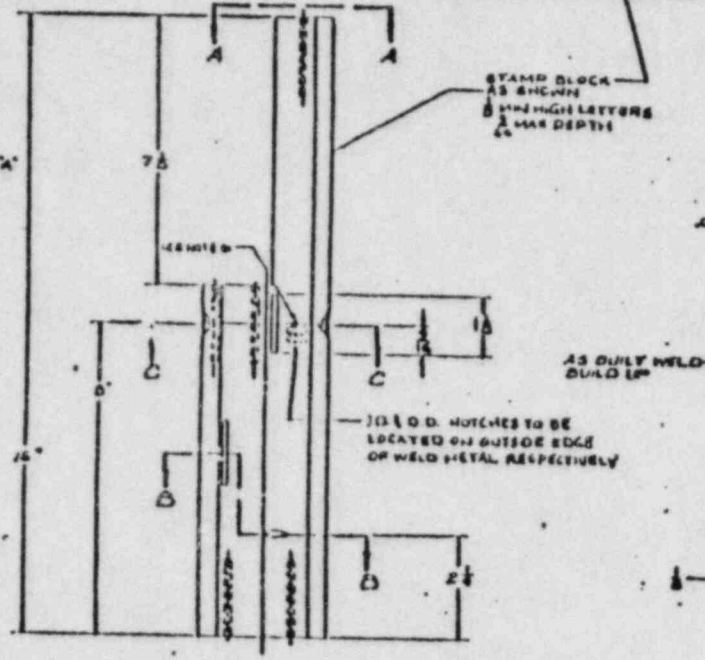
38" MAIN STEAM CALIBRATION STD 1.167 THICK UT 51

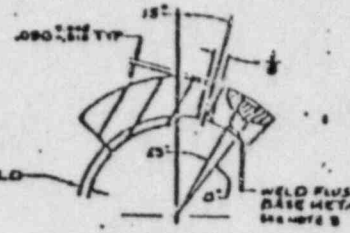
G-G370-501-090 01

PROJECT NO 192-034-006

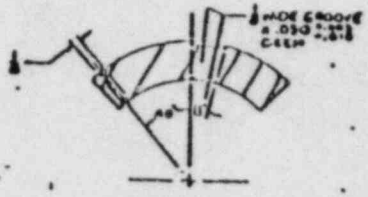
AP&L, ARKANSAS NUCLEAR ONE
UNIT #1-CALIBRATION BLOCK #40824



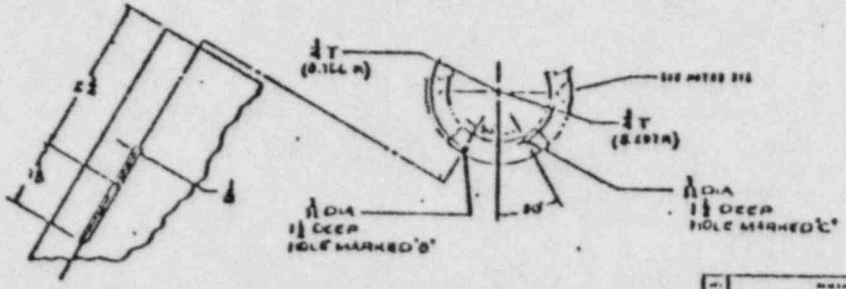




SECTION C-C



SECTION B-B



BLEND ALL BUILD UP AREAS FOR MACHINING OF NOTCHES A FULL RADIUS ON EACH END OF THE NOTCH IS ACCEPTABLE

WELD BUILD UP USED OF STANDARD TO BE GROUND FLUSH WITH BASE METAL

WELDED SAMPLE SUPPLIED BY BECHTEL

B.U.P. WELD BUILD UP HAS NOT BEEN GROUND FLUSH BY PIPE SUPPLIER, LEAVE IT AS SHOWN IN SECT C-C

4 CAL. SECTIONS HOLES ARE FLAT BOTTOMED BEAM WIDE SO AS NOT TO INCLUDE ALONG SIDE DIE MARKING IDENTIFICATION YARDS FROM THE SUPPLIED UT CALIBRATION STANDARD

SMALL SERIAL NOS

SERIAL NUMBERS ARE TO BE STAMPED WITH LETTER DESIGNATIONS AS SHOWN BY HAND TOOLS 1/8 - 5/8 MIN HIGH LETTERS

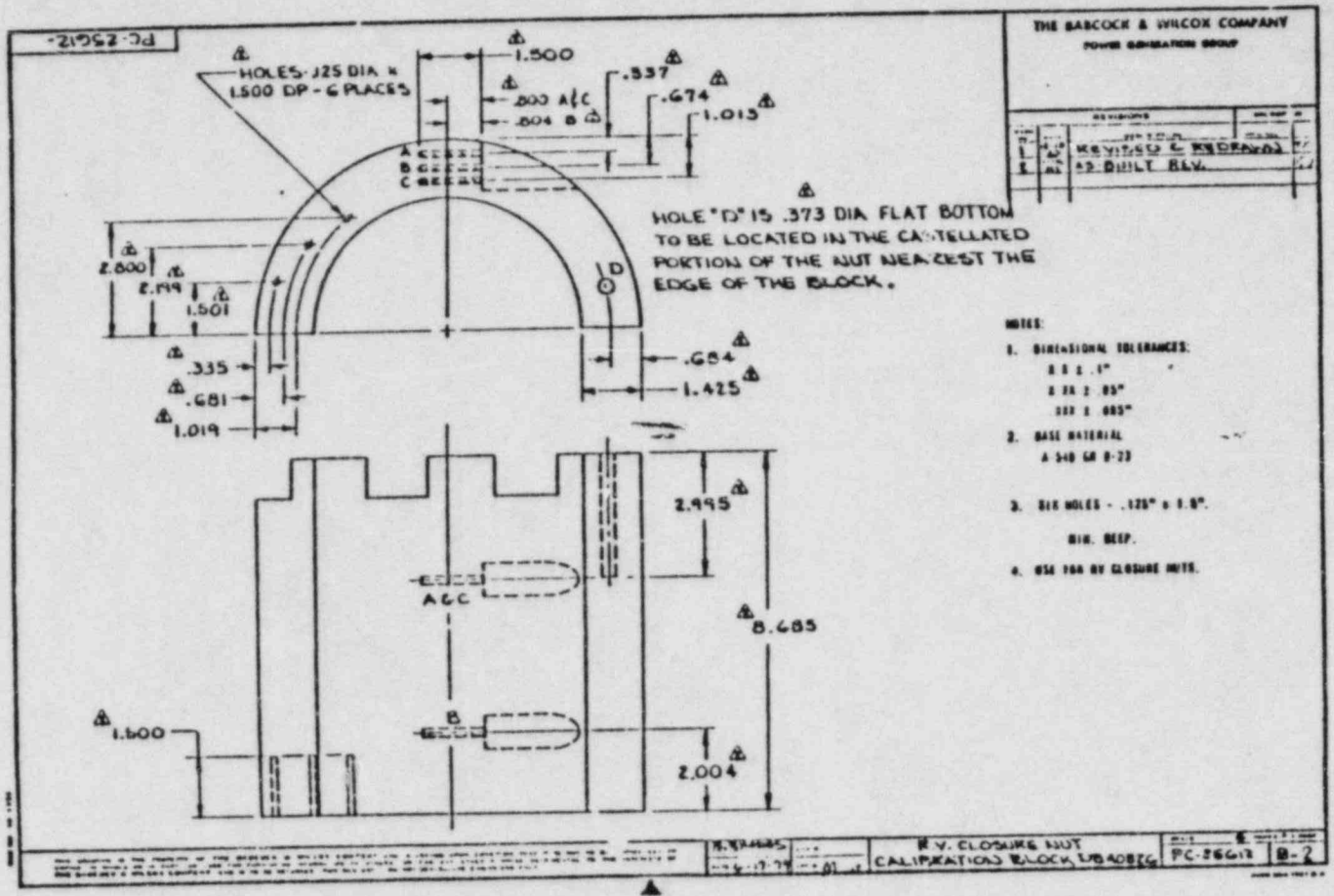
D-6370-501-058

CERTIFIED FOR CONSTRUCTION

					UT CALIBRATION STANDARD UT-48 D-6370-501-058

PROJECT NO 192-034-006

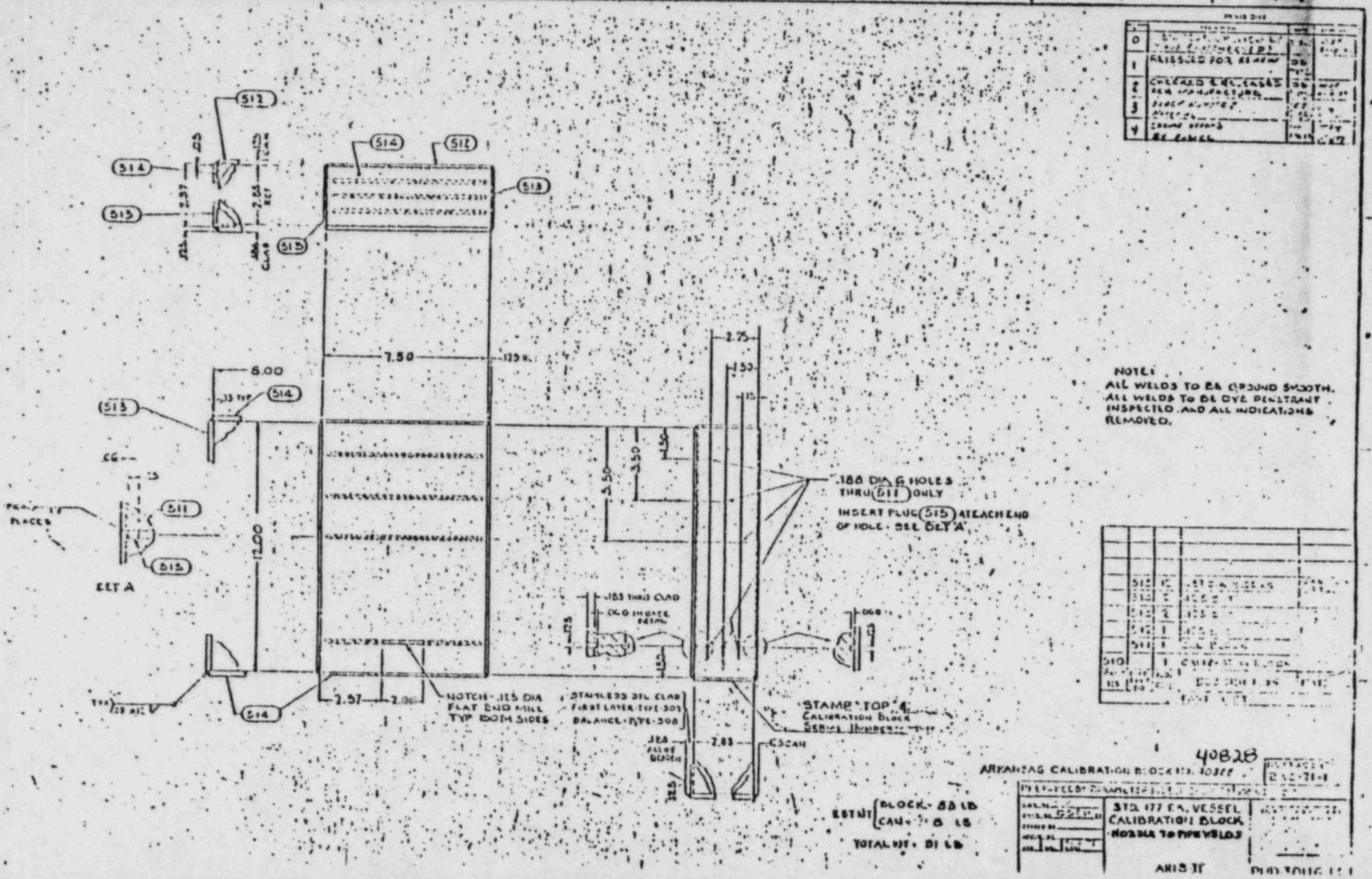
APSL, ARKANSAS NUCLEAR ONE UNIT #1-CALIBRATION BLOCK #40825



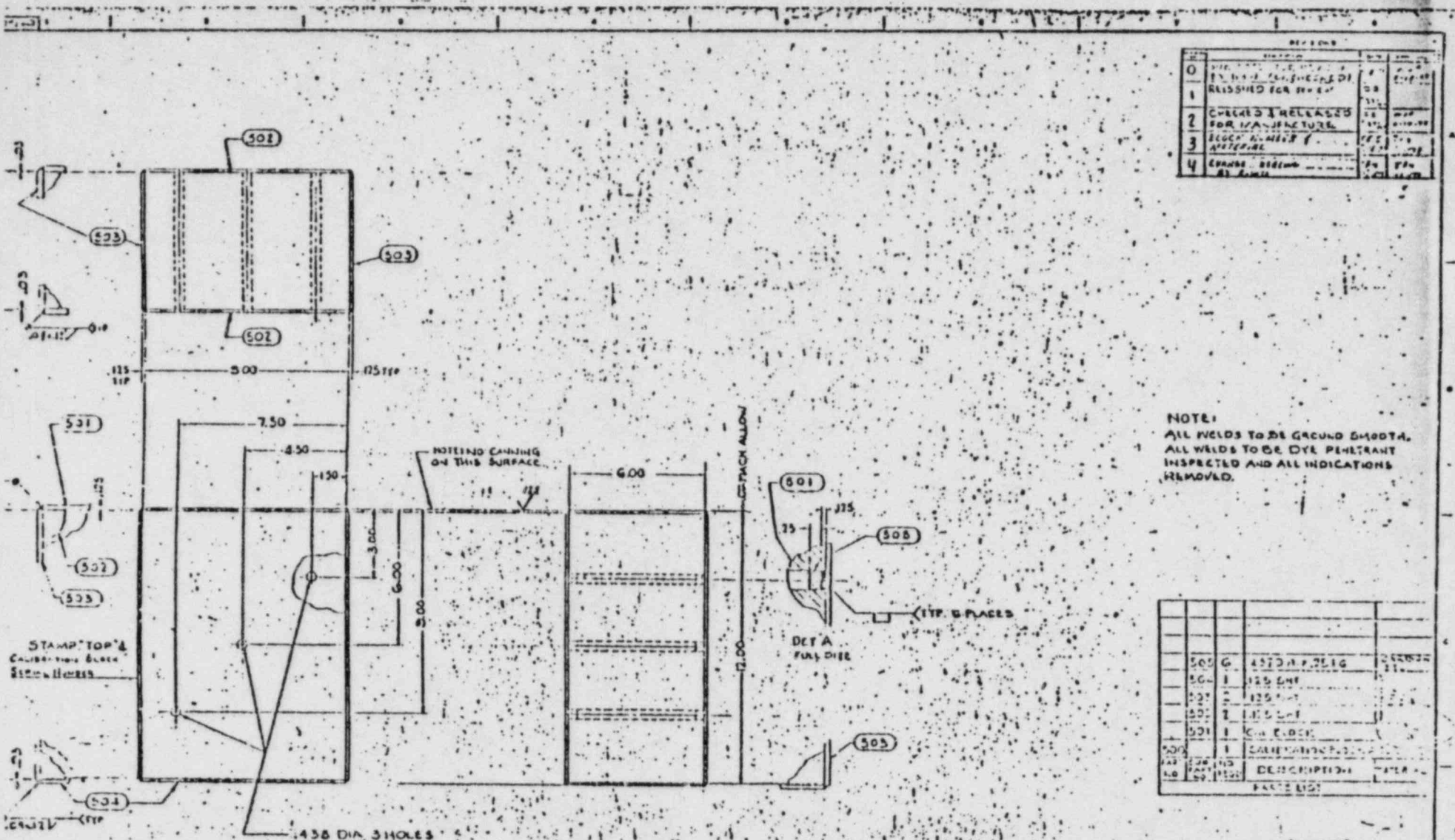
1-14-81

0157041065

40828



40829



NOTE:
ALL WELDS TO BE GROUND SMOOTH.
ALL WELDS TO BE DYE PENETRANT INSPECTED AND ALL INDICATIONS REMOVED.

ITEM	QTY	MATERIAL	DESCRIPTION
505	6	455 DIA. ROLLED	
504	1	12.5 SHT	
503	2	12.5 SHT	
502	2	12.5 SHT	
501	1	12.5 SHT	
500	1	CAL. BLOCK	

PARTS LIST

NO.	REVISIONS	BY	DATE
0	[illegible] RELEASED FOR [illegible]	[illegible]	[illegible]
1	[illegible]	[illegible]	[illegible]
2	CHECKED & RELEASED FOR MANUFACTURE	[illegible]	[illegible]
3	BLOCK NUMBER & MATERIAL	[illegible]	[illegible]
4	CHANGE [illegible] AS SHOWN	[illegible]	[illegible]

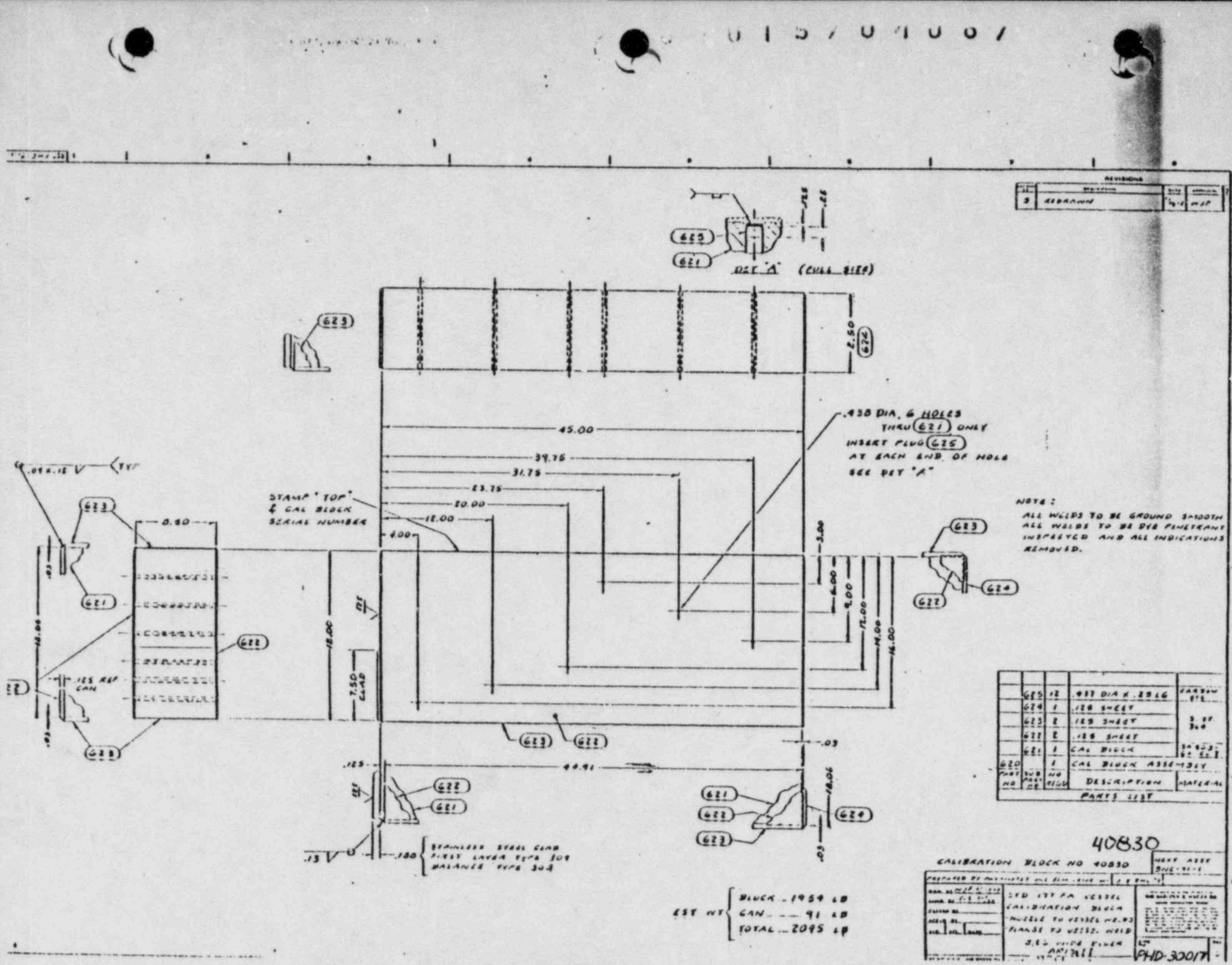
40829

ARKANSAS CALIBRATION BLOCK I.D. 40829

STD 177 FA. VESSEL CALIBRATION BLOCK - FLANGE LIGAMENT

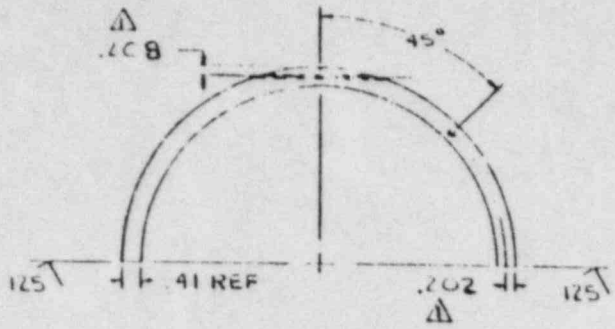
A516 II

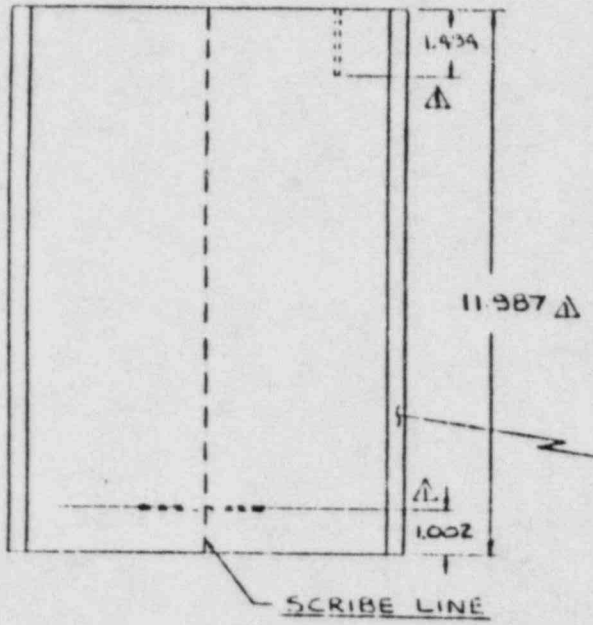
P1D30115 | 4


REVISIONS
3 REDRAWN
DET "A" (FULL SIZE)
625
621
623
624
622
2.50
45.00
39.75
31.75
23.75
20.00
12.00
4.00
.938 DIA. 6 HOLES THRU 621 ONLY
INSERT PLUG 625 AT EACH END OF HOLE
SEE DET "A"
STAMP "TOP" & CAL BLOCK SERIAL NUMBER
.09 x .12 V TYP
8.50
18.00
7.50 CLAD
3.00
6.00
9.00
12.00
14.00
16.00
18.00
.125 REF CAN
.03
.125
44.91
.13 V
.180
STAINLESS STEEL CLAD
FIRST LAYER TYPE 309
BALANCE TYPE 304
NOTE:
ALL WELDS TO BE GROUND SMOOTH
ALL WELDS TO BE DYE PENETRANT INSPECTED AND ALL INDICATIONS REMOVED.
625 12 .937 DIA X .2946 CARBON STL
624 1 .128 SHEET
623 2 .125 SHEET 304
622 2 .125 SHEET
621 1 CAL BLOCK
620 1 CAL BLOCK ASSEMBLY
PART NO | SUB PART NO | NO REQD | DESCRIPTION | MATERIAL
PARTS LIST
40830
CALIBRATION BLOCK NO 40830
EST WT
BLOCK 1959 LB
CAN 91 LB
TOTAL 2095 LB
SFD 137 FA VESSEL CALIBRATION BLOCK
NOZZLE TO VESSEL WELD
FLANGE TO VESSEL WELD
FHD-30017

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			
PLAN NO.	DATE	DESCRIPTION	BY APPR'D
1	6-1	AS-BUILT [illegible]	[illegible]





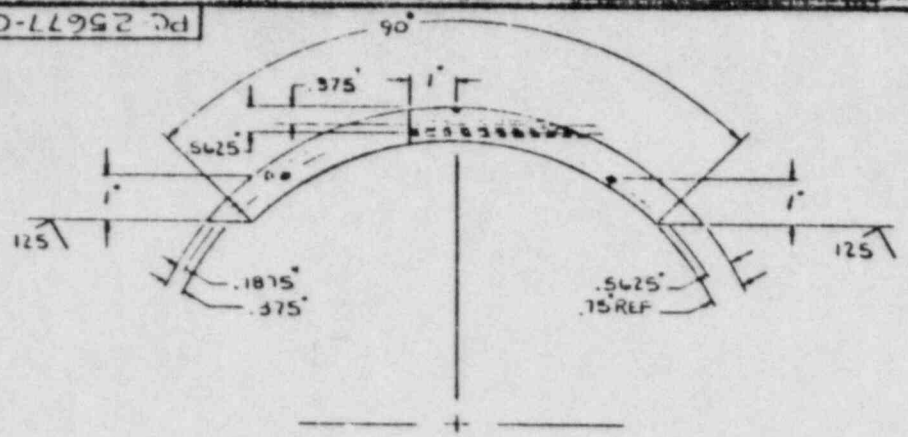
NOTES

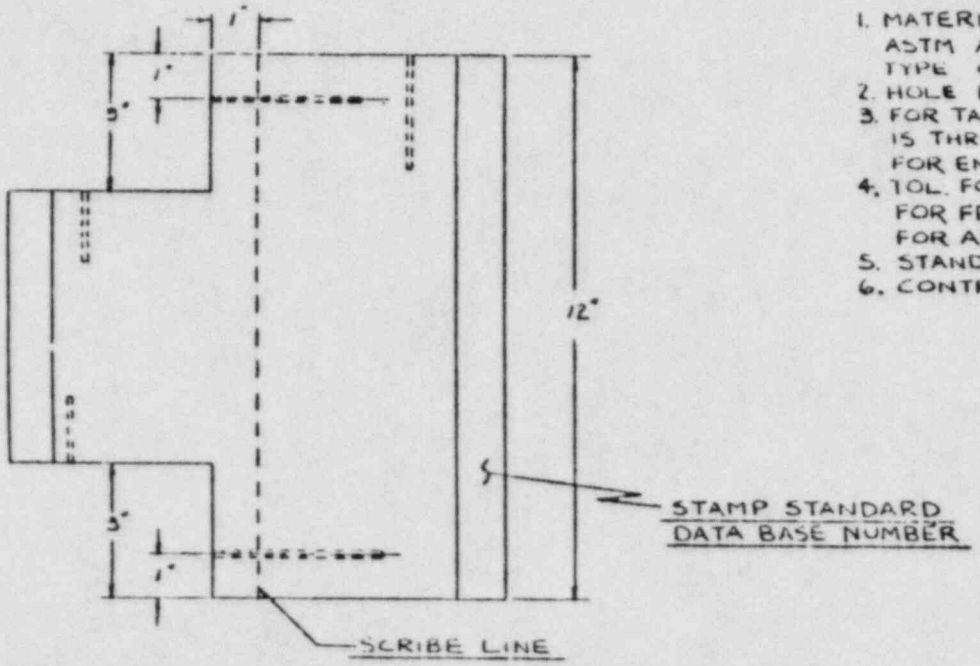
1. MATERIAL. 8.0" SCH 60 PIPE ASTM A-106B TYPE CS SEAMLESS
2. HOLE DIA. ±.005
3. FOR TANGENTIAL HOLE, DEPTH IS THRU OR 1" BEYOND SCRIBE LINE
4. TOL. FOR TWO DEC. PLACES ± .01 FOR FRACTIONAL DIM. ± 015 FOR ANGULAR DIM ± ½°
5. STANDARD DATA BASE NO. 40831
6. CONTRACT NO. 599-0341-10-02.

ARKANSAS POWER & LIGHT UNIT 1

DRN BY CRB	CHK'D BY [illegible]	UT CALIBRATION BLOCK DATA BASE NO. 40831
DATE 2-15-79	APP'D BY [illegible]	PC-25676-1

PC 25677-O





THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MICROFILM
BABCOCK NO.	DATE	DESCRIPTION	ORIGINAL

NOTES

1. MATERIAL 14" SCH. 80 PIPE
   ASTM A-106 B
   TYPE CS. SEAMLESS
2. HOLE DIA. 3/32"
3. FOR TANGENTIAL HOLE DEPTH IS THRU OR 1" BEYOND SCRIBE LINE
   FOR END HOLES DEPTH IS 2½"
4. TOL. FOR TWO DEC. PLACES ± .01
   FOR FRACTIONAL DIM. ± .015
   FOR ANGULAR DIM. ± ½°
5. STANDARD DATA BASE No. 40834
6. CONTRACT No. 192-034-015

ARKANSAS POWER & LIGHT UNIT 1

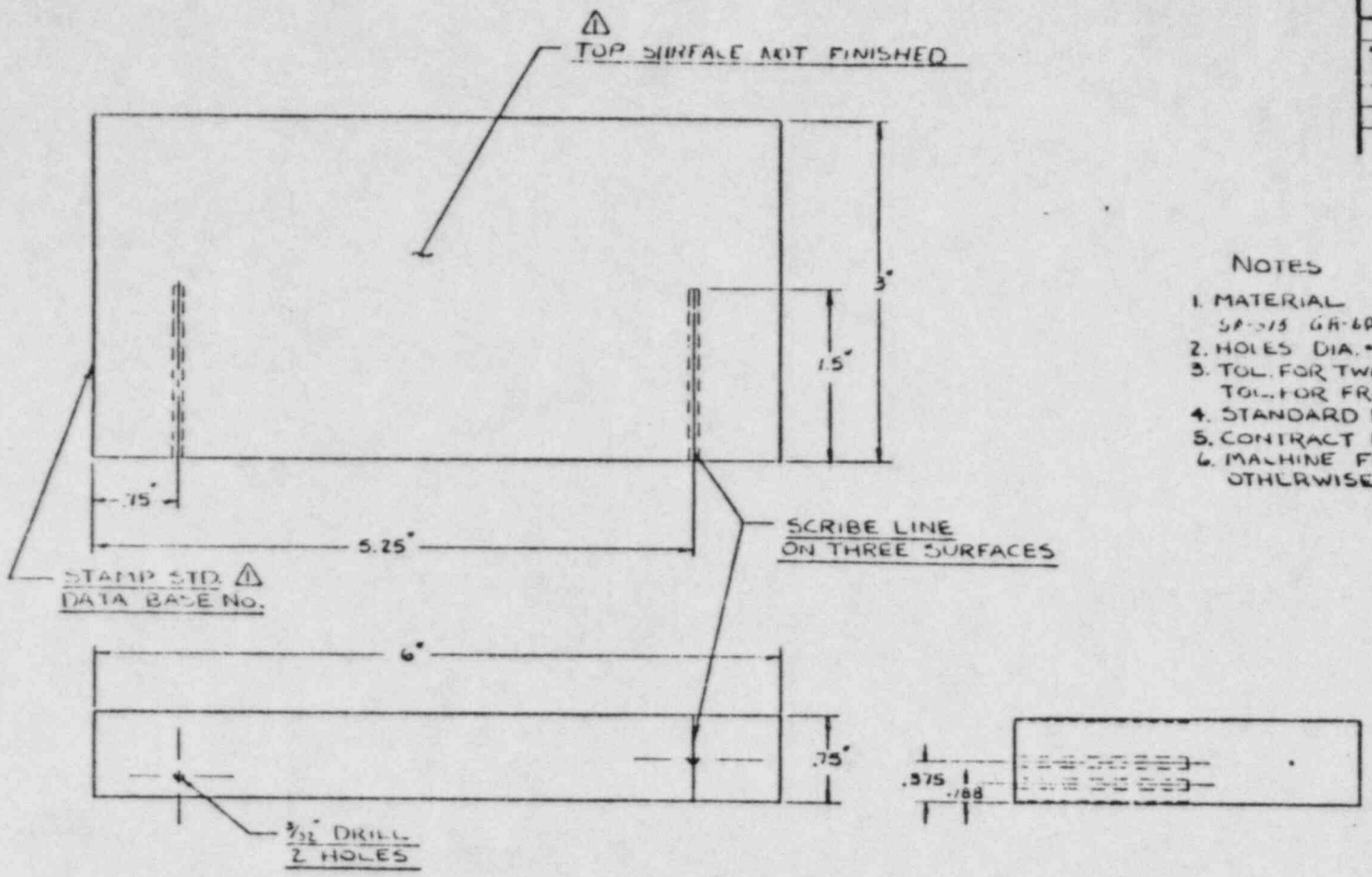
DRAWN BY K.N.D.	UNITS ENG	UT CALIBRATION BLOCK DATA BASE No 40834	SCALE 1/2
DATE 2-18-77	UNITS U.S.		PC-25677-O

0 1 5 7 0 4 0 7 0

PC-25680-1

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MIL SUPPLY
BLOCK NO.	DATE	DESCRIPTION	APPROVED
1	4/24	ADDED NOTE "TOP SURFACE AS FINISHED"	
		ADDED NOTE "STAMP STD DATA BASE NO"	
		STANDARDIZED LOCATION OF NOTES	
		DATA BASE NO 40836	

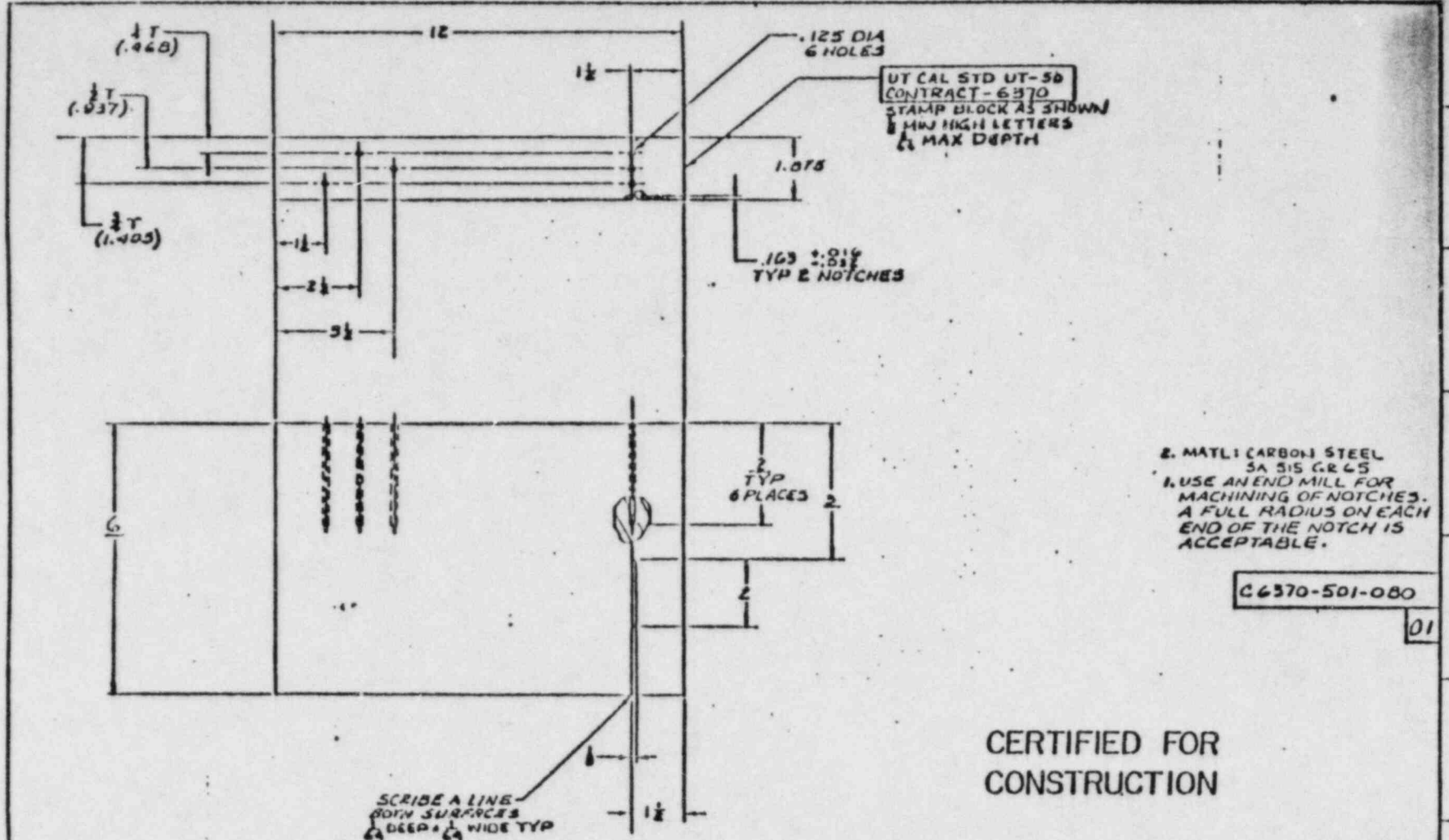


NOTES

1. MATERIAL ¾" THK CS. SA-515 GR-60
2. HOLES DIA. = 3/32" DEPTH = 1½"
3. TOL. FOR TWO DEC. PLACES ± .010 TOL. FOR FRACTIONAL DIM ± 015
4. STANDARD DATA BASE No 40836
5. CONTRACT No. 192-034-015
6. MACHINE FIN TO 125 RMS UNLESS OTHERWISE NOTED

ARKANSAS POWER & LIGHT UNIT 1

DRN BY C.N.B	CHK'D F.G.	UT CALIBRATION BLOCK DATA BASE NO. 40836	SCALE F.S.C.
DATE 2-20-74	APP'D		PC-25680-1



2. MATL: CARBON STEEL SA 515 GR 65
1. USE AN END MILL FOR MACHINING OF NOTCHES. A FULL RADIUS ON EACH END OF THE NOTCH IS ACCEPTABLE.

C6370-501-080 01

CERTIFIED FOR CONSTRUCTION

REV	DESCRIPTION
01	CERTIFIED FOR CONSTRUCTION PER REF RFS# 6370-110

NUCLEAR POWER SYSTEMS

38° MAIN STEAM CALIBRATION STD 1.075" THICK UT 50

C6370-501-080 01

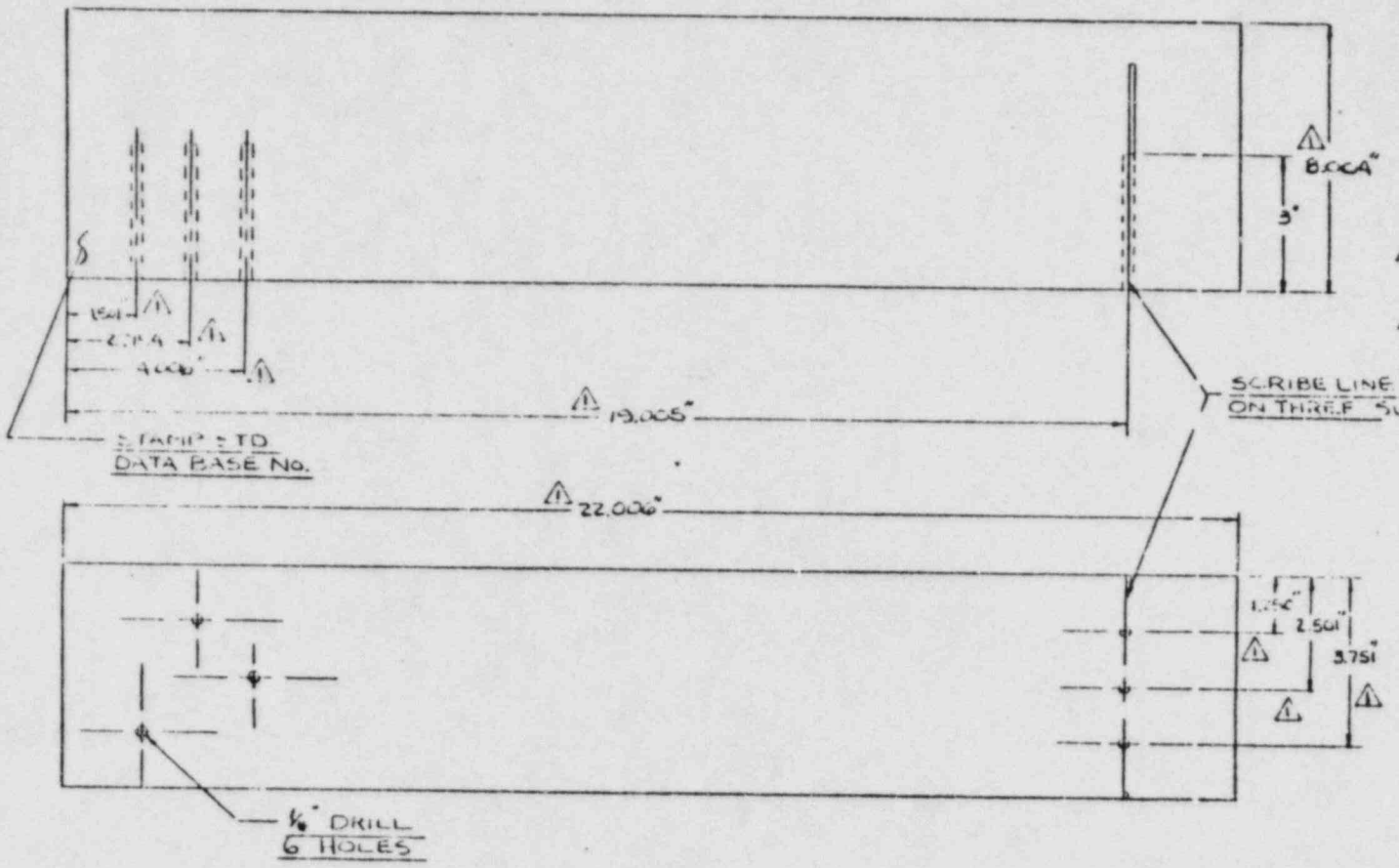
Project No. 192-034-006

AP&L ARKANSAS NUCLEAR ONE
UNIT #1-CALIBRATION BLOCK
#40837

18952-PC

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MICROFILM
BABW NO.	DATE	DESCRIPTION	
1	2-20-74	[illegible]	Original Copy



NOTES:

1. MATERIAL 5" THK CS SA-516, GR-70
2. HOLES: DIA. x 1.62 DEPTH = 3"
3. TOL FOR TWO DEC. PLACES ± .010 TOL FOR FRACTIONAL DIM. ± .015
4. NOTCHES 2" [illegible] WIDE x .102 ⌖
5. STANDARD DATA BASE No. 40838
6. CONTRACT NO. 59-3-C341-10 02
7. MACHINE FINISH TO 125 RMS

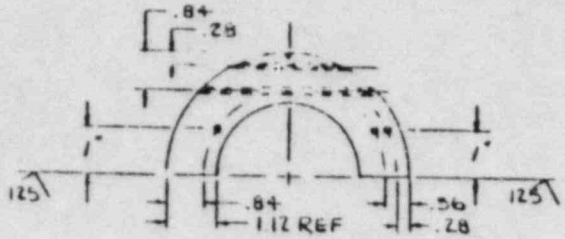
ARKANSAS POWER & LIGHT UNIT 1

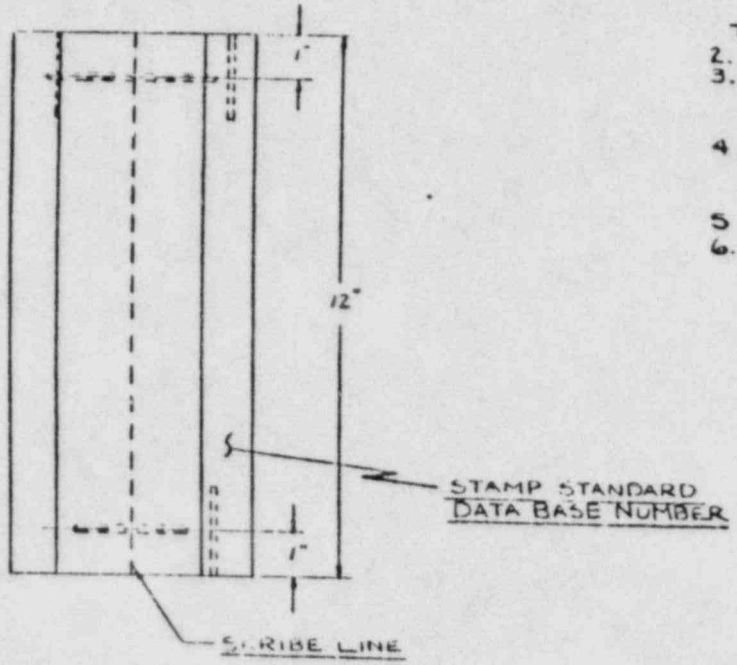
DRWN BY C.K.P.	CHKD E.G.E.	UT CALIBRATION BLOCK DATA BASE NO. 40838	SCALE 1/2"=1" INCHES TO 1 FOOT
DATE 2-20-74	APP'D H.N.P.		PC-25681 1

PC-25682-1

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			
ORDER NO.	DATE	DESCRIPTION	APPROVED
1	7/21	CHAN. TO NON-STD. SIZE	
		ITEM 3, 5 & 6 ADD PC-25682-1	



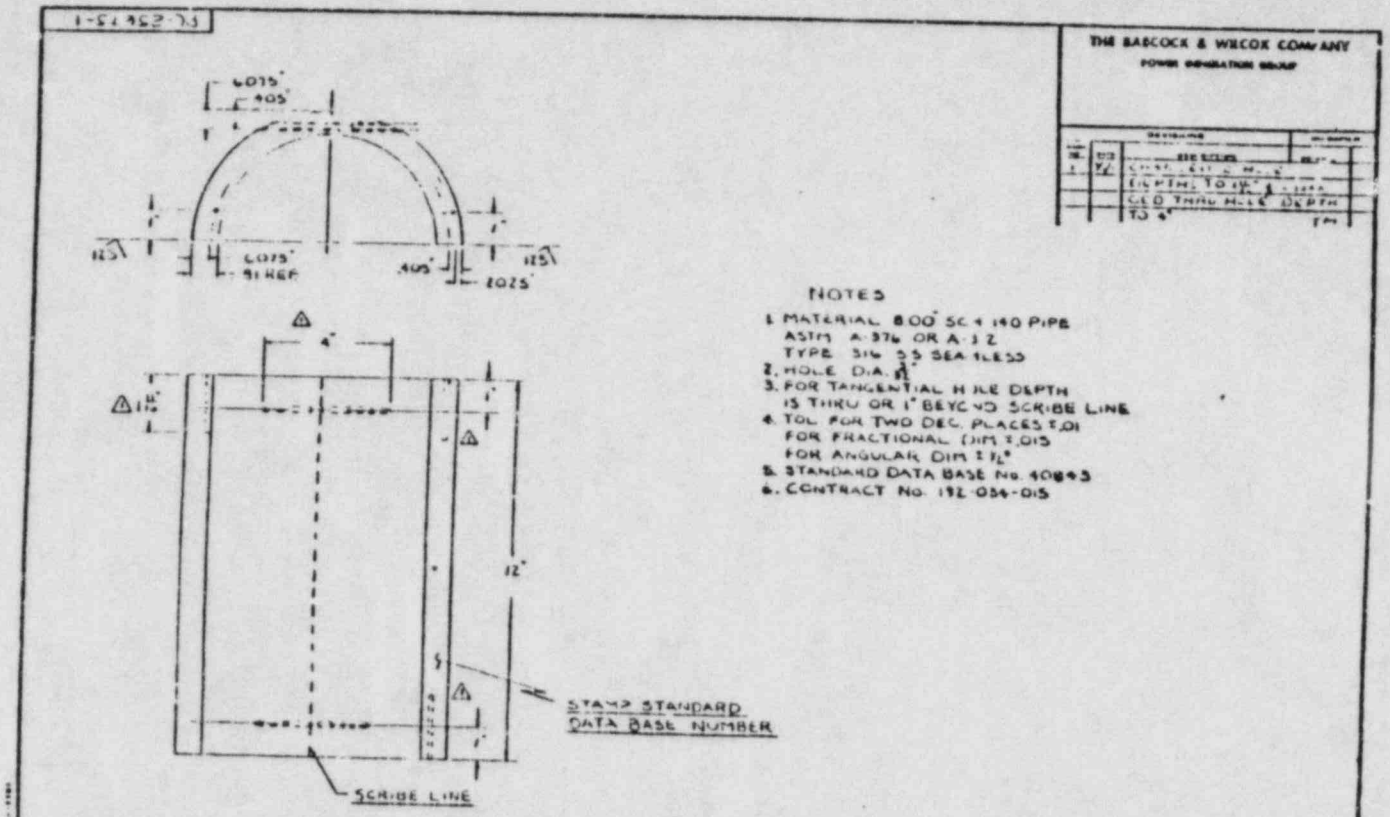


NOTES

1 MATERIAL 6.50" OD x 1.12" THK.
(NOT STANDARD PIPE SIZE)
TYPE SS SA-182 TP F-304
2. HOLE DIA - 3/8"
3. FOR TANGENTIAL HOLE DEPTH
IS THRU OR 1" BEYOND SCRIBE LINE
FOR END HOLES DEPTH IS 2"
4 TOL FOR TWO DEC. PLACES ± .01
FOR FRACTIONAL DIM. ± .015
FOR ANGULAR DIM. ± ½°
5 STANDARD DATA BASE No 40840
6. CONTRACT No. 192-034-013

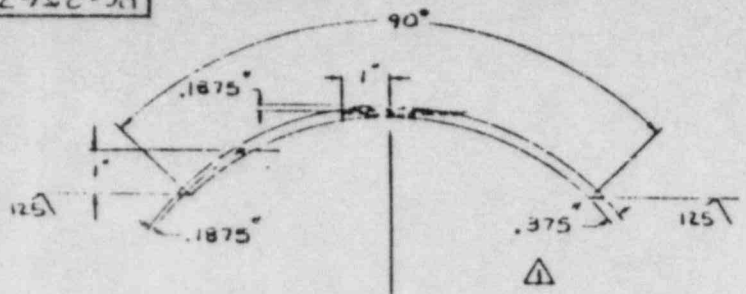
ARKANSAS POWER & LIGHT UNIT 1

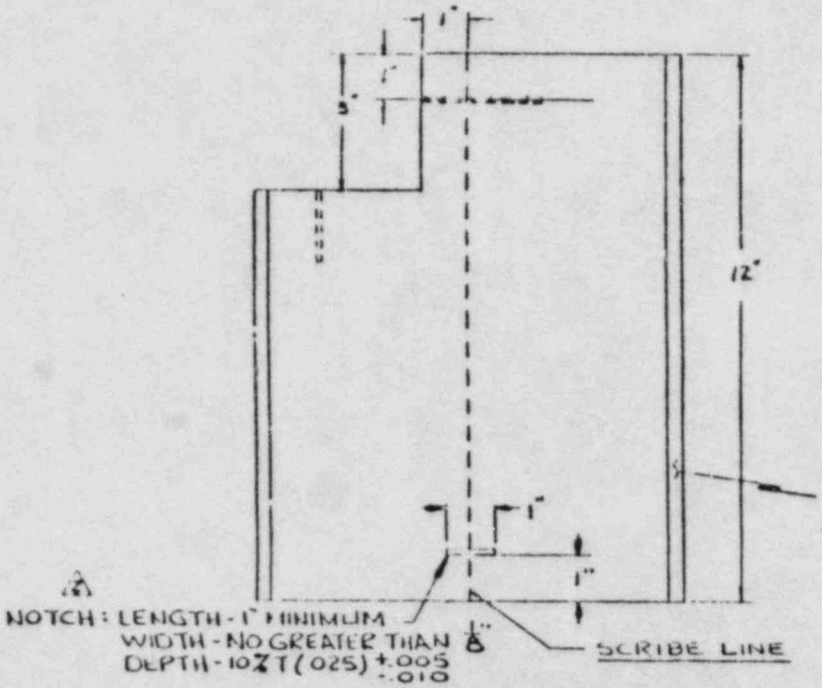
DRN BY L.R.B	DES BY G.A.	UT CALIBRATION BLOCK	SIZE A-1
DATE 2-21-77	APP'D BY G.A.	DATA BASE No. 40840	PC-25682-1



03-24-70

PC-25679-1





NOTCH: LENGTH - 1" MINIMUM
WIDTH - NO GREATER THAN
DEPTH - 10% T (.025) +.005 -.010

PERPENDICULARITY: ±2° TO ID & OD SURFACES

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS:			MICROFILM
BABCOCK NO.	DATE	DESCRIPTION	ORIGINAL
1	2-19-79	HANDLE FLAT TO STD PIPE	
2	3-27-79	ADDED NOTCH	

NOTES

1. MATERIAL 12.75 SCH. STD. PIPE ASTM A-358 CLASS 1 TYPE 304 WELDED
2. HOLE DIA. 5/32"
3. FOR TANGENTIAL HOLE DEPTH IS THRU OR 1" BEYOND SCRIBE LINE FOR END HOLE DEPTH IS 1½"
4. TOL. FOR TWO DEC. PLACES ±.01
   FOR FRACTIONAL DIM. ±.015
   FOR ANGULAR DIM. ± ½°
5. STANDARD DATA BASE No. 40845
6. CONTRACT No 192-034-015

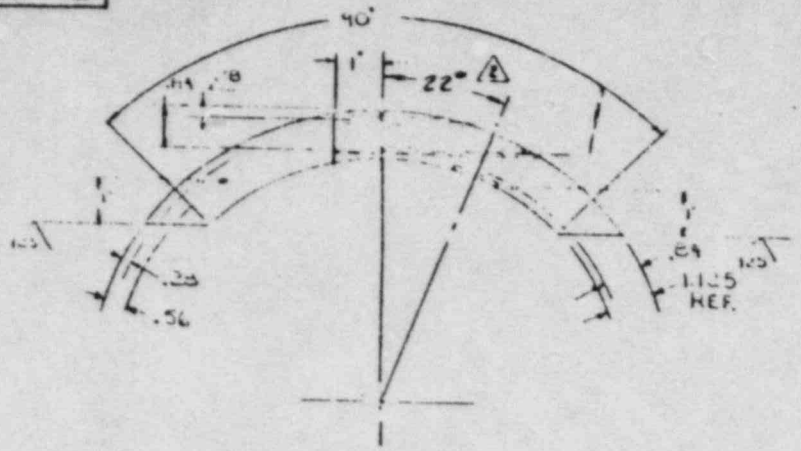
ARKANSAS POWER & LIGHT UNIT 1

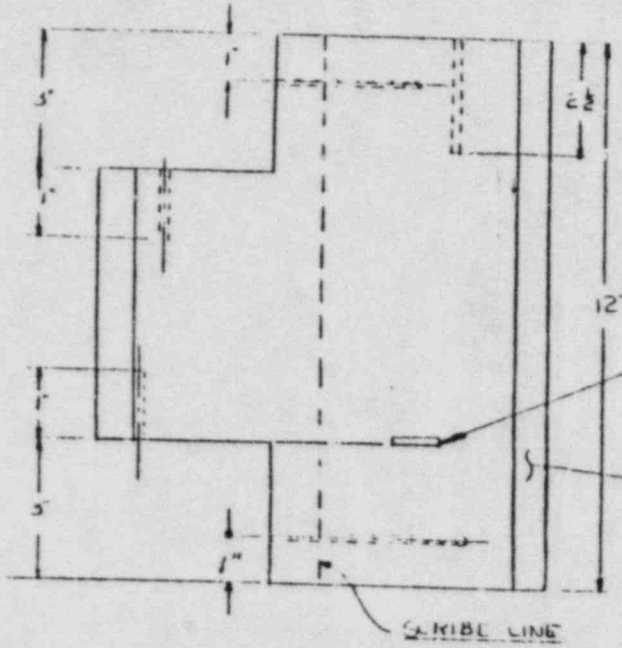
DRN BY C.R.D.	APP'D E.G.I.	UT CALIBRATION BLOCK DATA BASE No. 40645
DATE 2-19-79	APP'D H.S.	PC-25679-2

FORM BUM 1921 B 4

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS				NO. SUFFIX
1	4-83	ADDED NOTCH	MLN	





NOTES:

1. MATERIAL - 1.75 SCH 140 PIPE
   ASTM A 376 OR A 312
   TYPE 316 S.S. SEAMLESS
2. HOLE DIA - $\frac{1}{8}$"
3. FOR TANGENTIAL HOLE DEPTH IS
   THRU OR 1" BEYOND SCRIBE LINE
4. TOL FOR TWO DEC. PLACES ± .01"
   FOR FRACTIONAL DIM. ± .5
   FOR ANGULAR DIM. ± ½°
5. STANDARD DATA BASE NO. 40846
6. CONTRACT NO. 192-034-015

(2) NOTCH: LENGTH - 1" MINIMUM
WIDTH - NO GREATER THAN $\frac{1}{8}$"
DEPTH - 10% T (.1125") +.0125", -.02250"
PERPENDICULARITY - ±2° TO ID & OD SURFACES

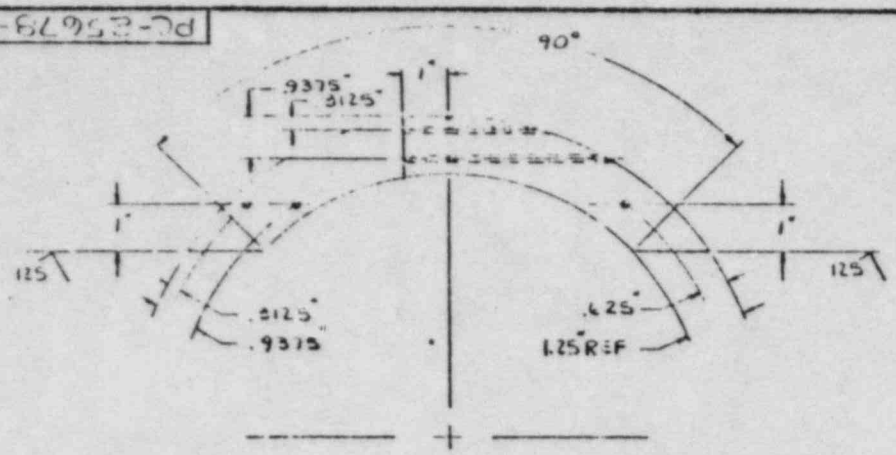
STAMP STANDARD DATA BASE NO.

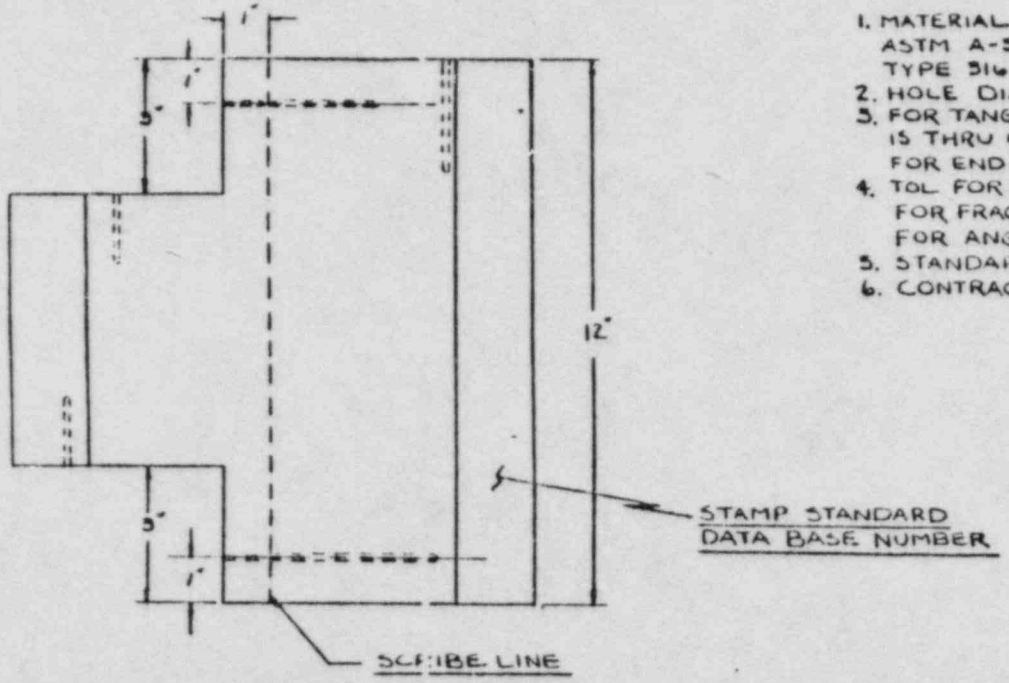
ARKANSAS POWER & LIGHT UNIT 1

DRN BY DTW	UNIT P-3	UT CALIBRATION BLOCK	SCALE
DATE 3-8-71	APP. 956	DATA BASE NO. 40846	PC-25641-1

0157040077

PC-25678-0





THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MICROFILM
DASH NO	DATE	DESCRIPTION	

NOTES

1. MATERIAL 14" SCH 140 PIPE ASTM A-376 OR A-312 TYPE 316 SS SEAMLESS
2. HOLE DIA. ⅛"
3. FOR TANGENTIAL HOLE DEPTH IS THRU OR 1" BEYOND SCRIBE LINE FOR END HOLES DEPTH IS 2½"
4. TOL FOR TWO DEC PLACES ± .01 FOR FRACTIONAL DIM ± .015 FOR ANGULAR DIM. ± ½°
5. STANDARD DATA BASE NO. 40848
6. CONTRACT NO 192-034-015

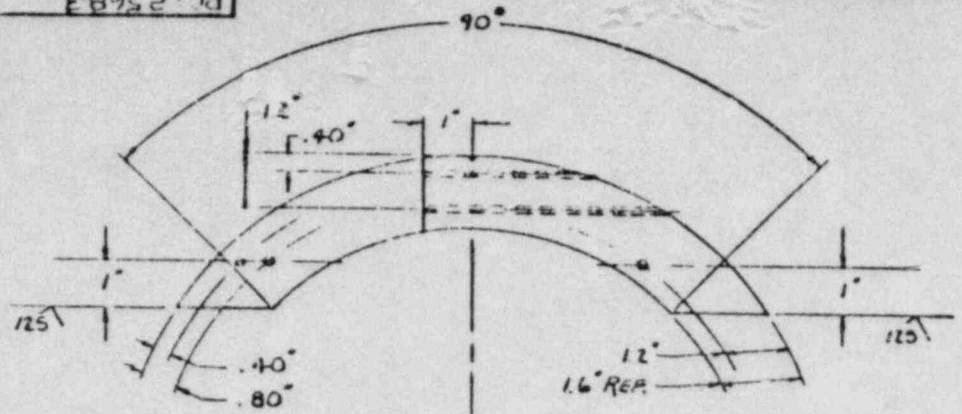
ARKANSAS POWER & LIGHT UNIT 1

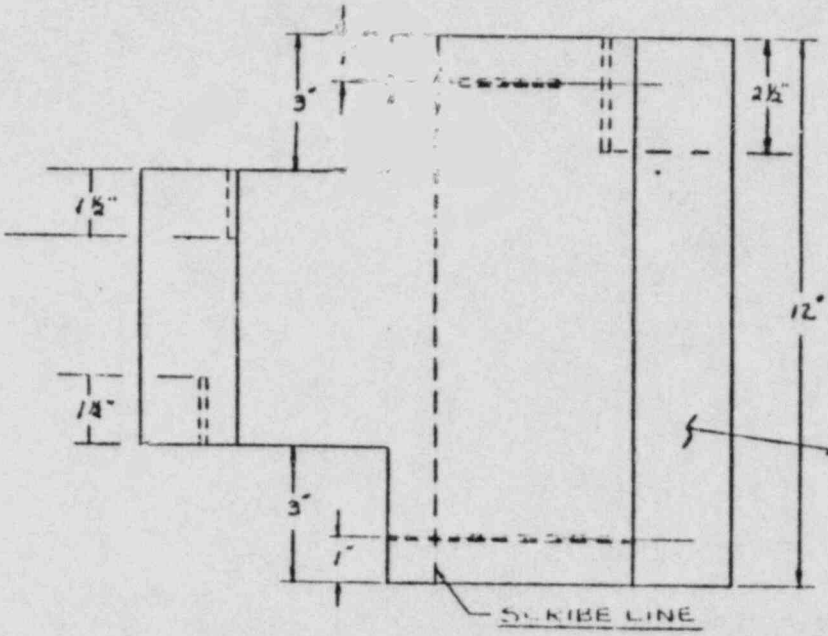
DRN BY CRB	CHK'D G.B.	UT CALIBRATION BLOCK DATA BASE NO. 40848	SCALE NONE	PC-25678-0
DATE 2-19-79	APP'D #1			

PC-25683-D

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			
DRAWING NO.	DATE	DESCRIPTION	MICROFILM ORIGINAL





NOTES

1. MATERIAL 15.60" OD 1.60" THK. NOT STANDARD PIPE SIZE TYPE SS. SA-336-68A
2. HOLE DIA. ½"
3. FOR TANGENTIAL HOLE DEPTH IS THRU OR 1" BEYOND SCRIBE LINE FOR END HOLES DEPTH IS 1½ OR 2½"
4. TOL. FOR TWO DEC. PLACES ± .01 FOR FRACTIONAL DIM. ± .015 FOR ANGULAR DIM. ± ½°
5. STANDARD DATA BASE No. 40849
6. CONTRACT No. 192-034-015

ARKANSAS POWER & LIGHT UNIT 1

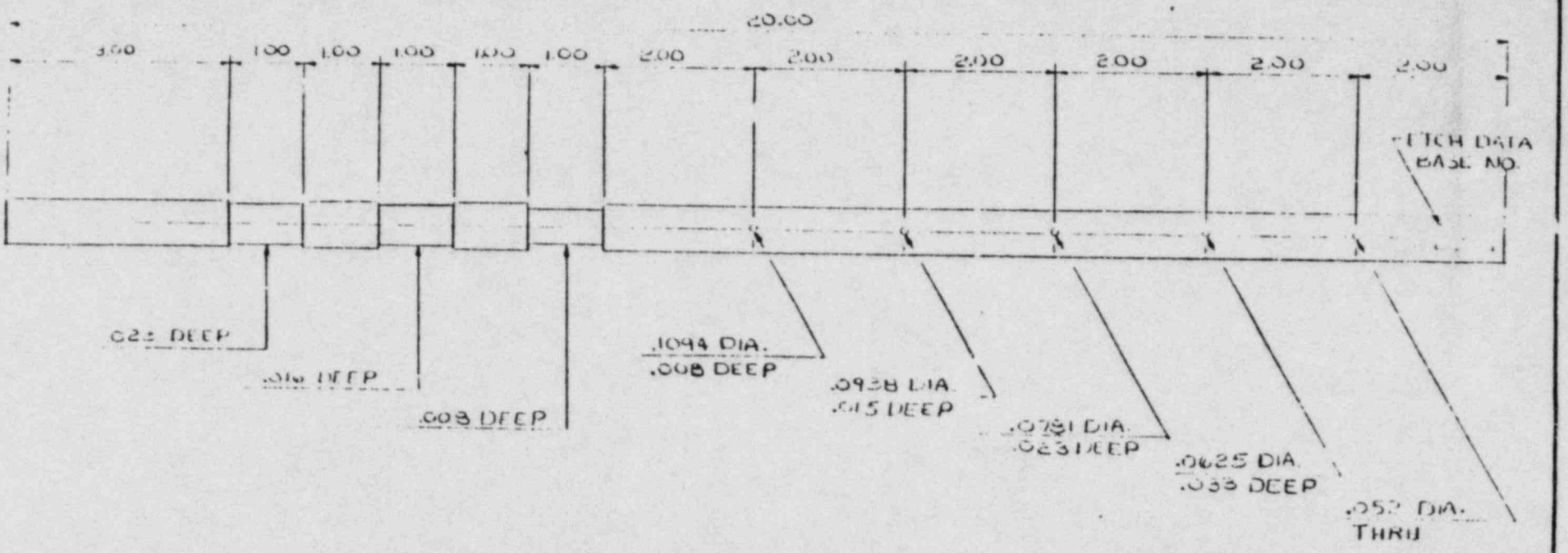
DRN BY L.A.B	CHKD BY E.G.C.	UT CALIBRATION BLOCK DATA BASE NO. 40849	SCALE —/" INCHES = 1 FOOT
DATE 2-28-77	APPD BY		PC-25683-0

NOTES:

1. MATERIAL IS INCONEL 600 ⅜" OD TUBE, .034" WALL
2. FLAT BOTTOM DRILL ALL HOLES

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS	



		OTSG ET CALIBRATION STD. ITI DATA BASE # 40850	PC-25684-0

PC-25685-0

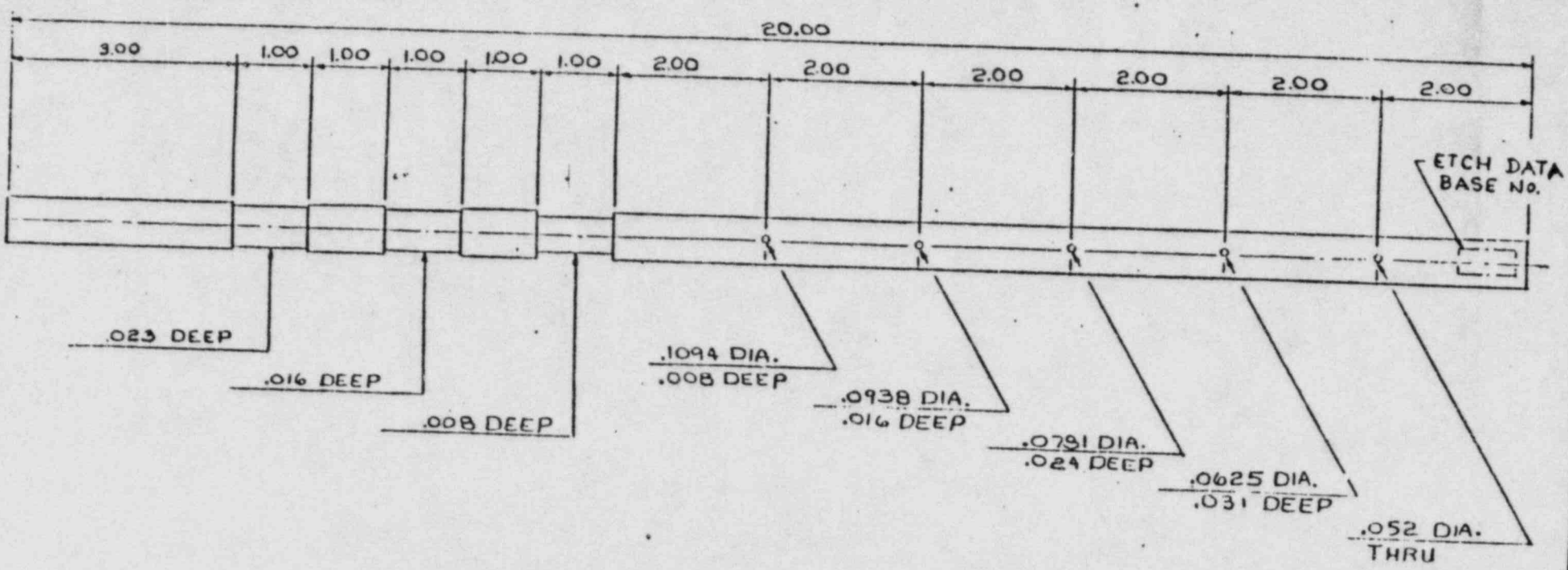
NOTES:

1. MATERIAL IS INCONEL 600 ⅝" O.D. TUBE, .039" WALL
2. FLAT BOTTOM DRILL ALL HOLES

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

40851

REVISIONS			MICROFILM
DASH NO.	DATE	DESCRIPTION	

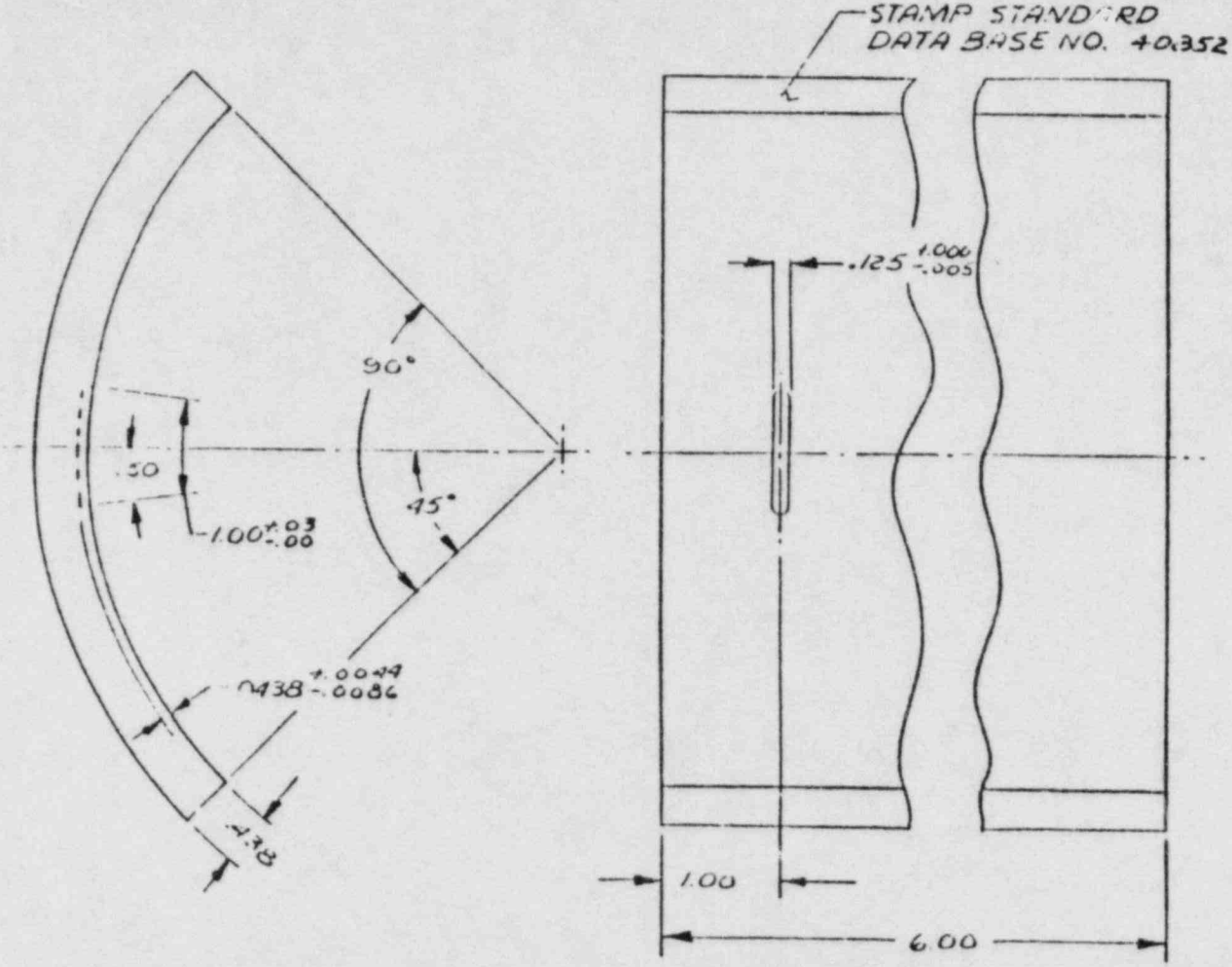


DRWN BY D.L.W.	CHK'D E.G.B.	OTSG ET CALIBRATION STD. DATA BASE # 40851	SCALE NONE
DATE 3/15/74	APP'D [illegible]		PC-25685-0

B G221211

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MISCELLANEOUS
DRAW NO.	DATE	DESCRIPTION	APPROVED



NOTES:
1. SIZE (DIA): 4" SCH 120
2. MATL: ASTM A 376 OR A 312 TYPE 316
3. SITE: RUSSELLVILLE, ARK.
4. CUSTOMER: ARKANSAS P&L
5. CONTRACT NO: 599 0341-25-01
6. DATA BASE NO: 40852
7. TOL. FOR .XX = ±.03
   .XXX = ±.030
8. SIDES OF SLOT TO BE PERPENDICULAR TO I.D. AND O.D. WITHIN ±2°

ARKANSAS POWER & LIGHT CO. #1

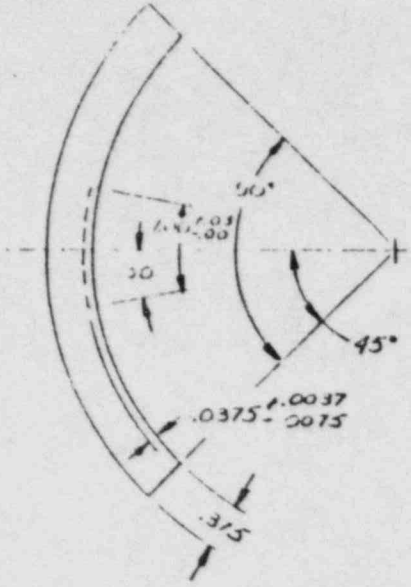
DRWN BY	CHKD BY	U.T. INSTALLATION STD: 40852 4" SCH 120	SIZE	DRAWING NO.	REV
DATE	APPD BY			1121229	B-0

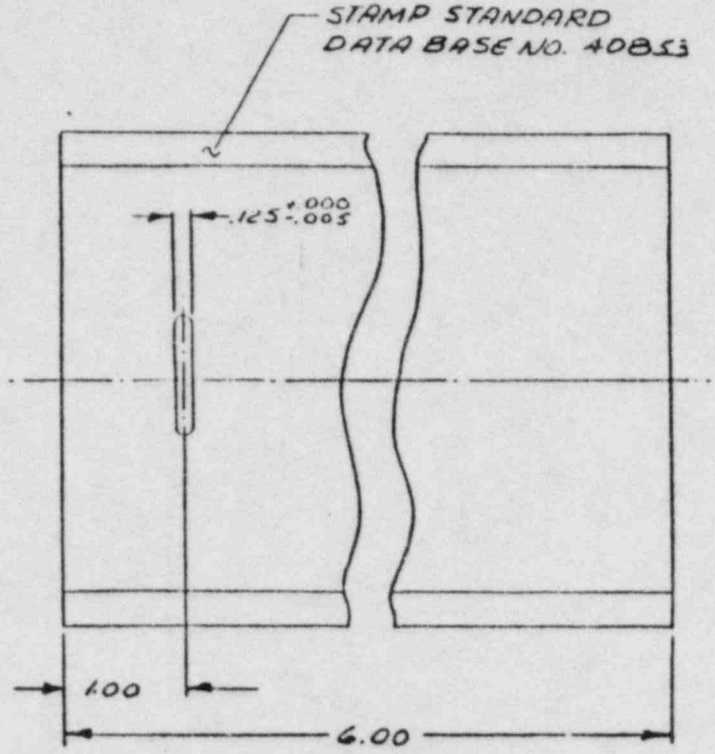
0 1 5 / 0 4 0 8 2

Q 0E21211

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MILSPEC
MARK NO.	DATE	DESCRIPTION	ORIGINAL





NOTES:
1. SIZE (O.D.): 2½" SCH 160
2. MATL: SABIE TYPE 316
3. SITE: RUSSELLVILLE, ARK
4. CUSTOMER: ARKANSAS P/L
5. CONTRACT NO: 590-0341-25-01
6. DATA BASE NO: 40853
7. TOL. FOR .XX = ±.03
   .XXX = ±.090
8. SIDES OF SLOT TO BE PERPENDICULAR TO I.D. AND O.D. WITHIN ±2°

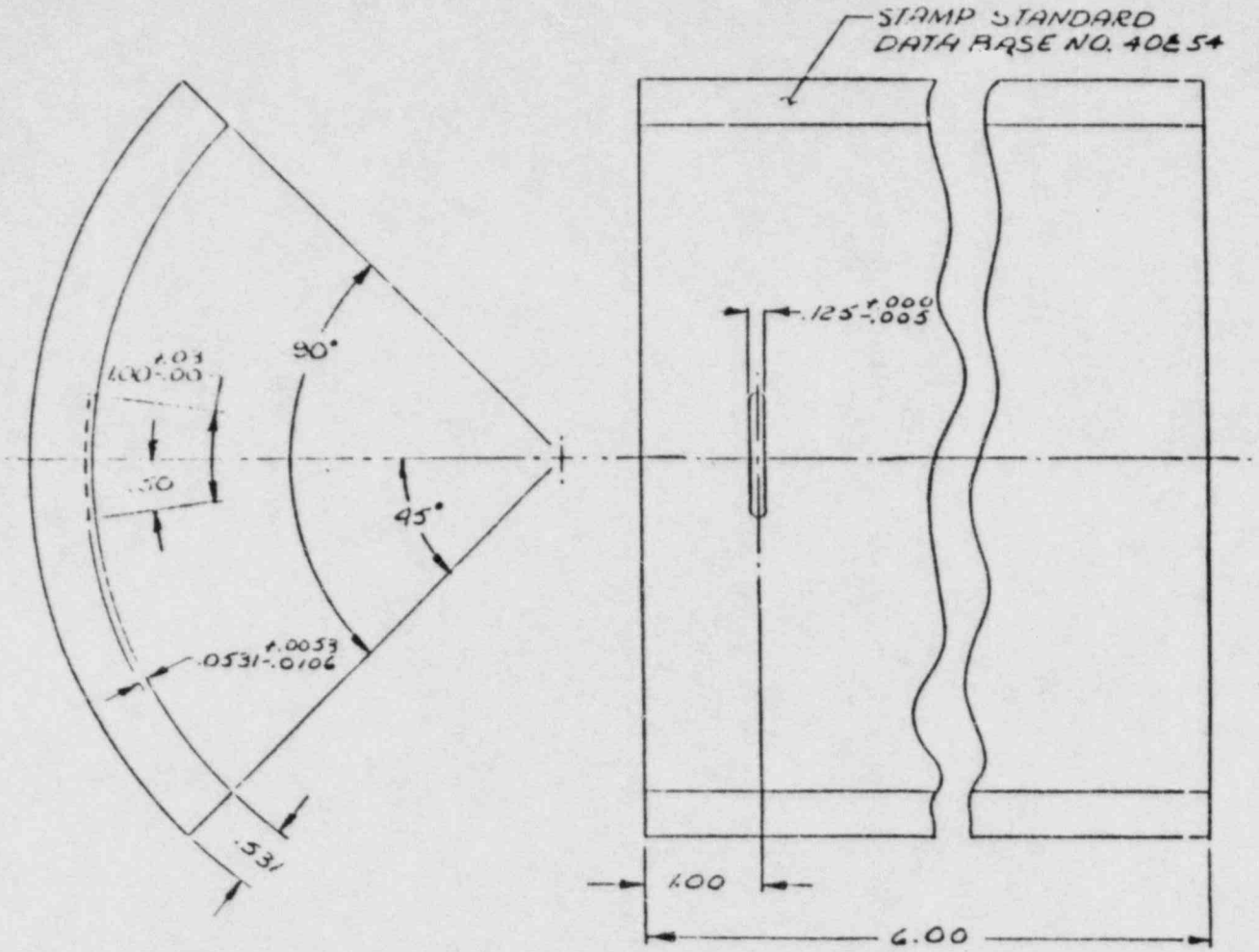
ARKANSAS POWER & LIGHT UNIT #1

DRN BY: ETA	SCALE: NONE	U.T. CALIBRATION STD: 2½" SCH 160 #40853	SIZE: D
CHECKED BY:	DWG NO: 11212	REV: 0	

B 1121211

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MIL. NUMBER
BABCOCK NO.	DATE	DESCRIPTION	ORIGINAL



NOTES:
1. SIZE (DIA): 4" SCH 160
2. MATL: SA312 TYPE 316
3. SITE: RUSSELLVILLE, ARK
4. CUSTOMER: ARKANSAS P&L
5. CONTRACT NO: 599-0341-25-01
6. DATA BASE NO: 40854
7. TOL. FOR .XX = ±.03
   .XXX = ±.030
8. SIDES OF SLOT TO BE PERPENDICULAR TO I.D. AND O.D. WITHIN ±2°

ARKANSAS POWER & LIGHT UNIT #1

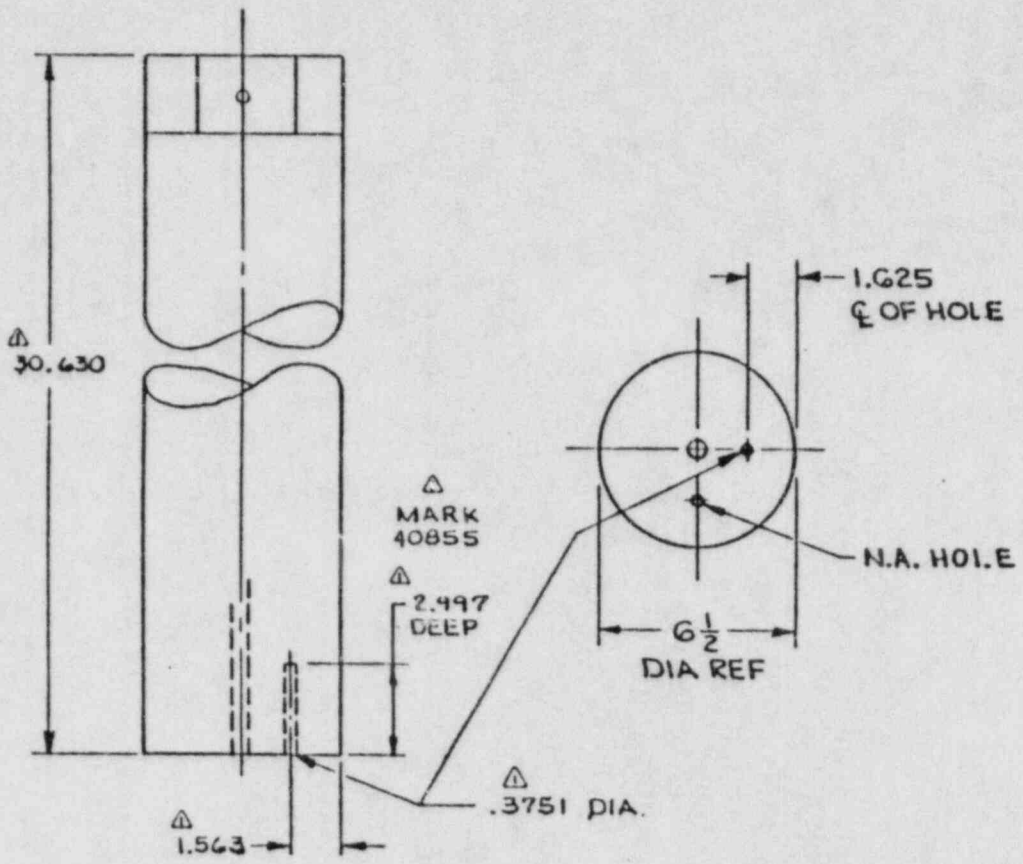
U.T. CALIBRATION STD. 40854
4" SCH 160

1121231 B-0

1122837 B

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MICROFILM
MARK NO	DATE	DESCRIPTION	ORIGINAL
1	12-10-80	AS-BUILT REV.	



INFORMATION REQUIRED

1. SIZE DIA. 6 1/2".
2. TYPE OF MAT. A540 GR23.
3. ARKANSAS POWER & LIGHT.
4. AP&L UNIT 1.
5. CONTRACT 598-0341 14-05.
6. DATA BASE NO. 40855.

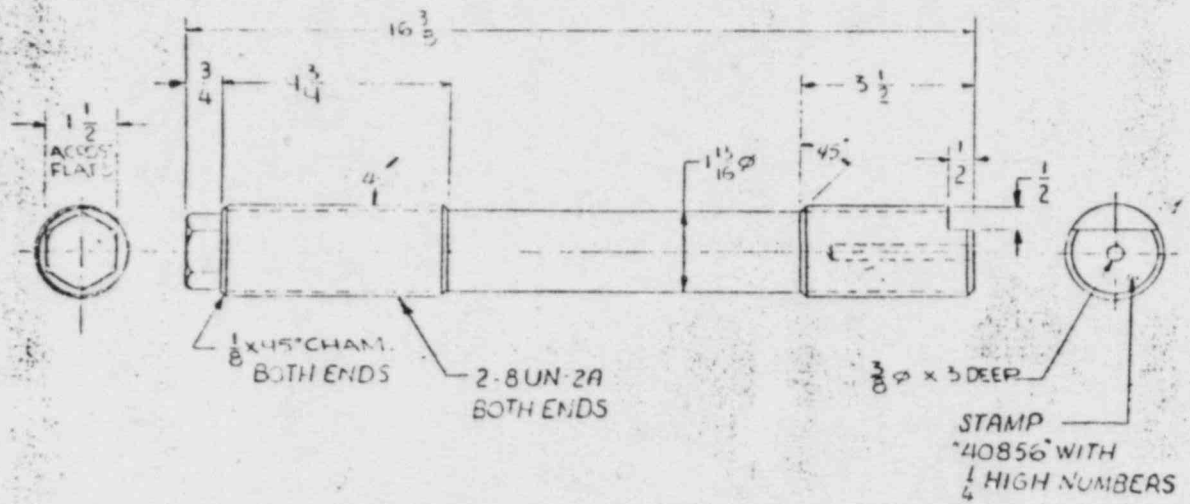
NOTES:

1. HOLE DIA. 3/8".
2. TOL FOR XX = .01
   TOL FOR .XXX = .003
   TOL FOR FRACTION = ± 1/32

S. ROGERS		R.V. CLOSURE STUD CALIBRATION BLOCK DB40855	SCALE 3	1122837 B-1
DATE 12-10-80	APP'D MGH			

BILL OF MATERIALS
QUANTITIES ARE FOR

GROUP NO. & QUANTITY 6	5	4	3	2	1	ITEM NO	NAME	PIECE NO.	MATERIAL	REMARKS
					X	1	CALIBRATION STD 40856	C 6370 501 120-1	SA 320 GR L43	



1. UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES.

C-6370-501-120

01

CERTIFIED FOR CONSTRUCTION

REV	DESCRIPTION	BY & DATE	CHK & DATE	ENGR APPR	PROJ APPR
01	C-CERTIFIED FOR CONSTRUCTION PER REV REQ 4678-290				

UNLESS OTHERWISE SPECIFIED
DIMENSIONING & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING

DIMENSIONS	UNDER 6	6 - 18	OVER 18
DECIMAL	± .005	± .005	± .010
FRACTION	± 1/64	± 1/32	± 1/16

BREAK CORNERS 1/64 APPROX. R OR CHAM — FILLETS 1/64 TO 1/32 R
FINISH (√) AA125 MICRO IN.
ANGLES ± 0° - 30' | CHAM ± 5°

COMBUSTION ENGINEERING INC
POWER SYSTEMS
NUCLEAR POWER SYSTEMS

DRAWN BY LCE 11-12-82
CHECKED 12-22-82
APPROVALS 12-27-82

CUSTOMER
ARKANSAS POWER & LIGHT CO
NUCLEAR ONE-UNIT 1

TITLE
CALIBRATION STD 40856

NEXT ASSY | SUPERSEDES

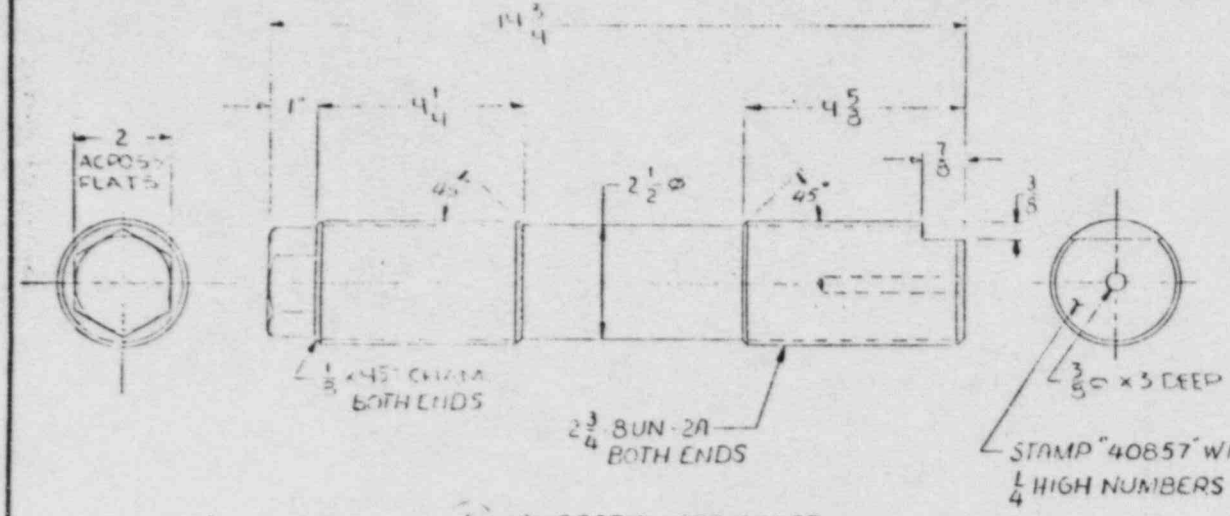
JOB NO. 651035 | COMPONENT CODE | SCALE 1/2

DWG NO. C-6370-501-120 01
SHEET 1 OF 1 REV

H G F E D C B A

BILL OF MATERIALS
QUANTITIES ARE FOR

GROUP NO. & QUANTITY 6	5	4	3	2	1	ITEM NO	NAME	PIECE NO	MATERIAL	REMARKS
					X	1	CALIBRATION STD 40857	C-6370-501-121-1	SA320 GR L43	



1 CALIBRATION STD 40857

1- UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES

C-6370-501-121

01

CERTIFIED FOR CONSTRUCTION

NO.	DESCRIPTION	BY & DATE	CHK & DATE	ENG APPD	PROJ APPD
01	CERTIFIED FOR CONSTRUCTION PER REV REQ 4678-290				

UNLESS OTHERWISE SPECIFIED
DIMENSIONING & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING

DIMENSIONS	UNDER 6	6 - 18	OVER 18
DECIMAL	± .005	± .005	± .010
FRACTION	1/64	± 1/32	± 1/16

BREAK CORNERS 1.64 APPROX R OR CHAM – FILLETS 1.64 TO 1/32 R
FINISH (µ) AA125 MICRO IN.
ANGLES ± 0° - 30' | CHAM ± 5°

COMBUSTION ENGINEERING, INC. NUCLEAR POWER SYSTEMS

DRAWN BY L.K.SCOTT 11-13-83
CHECKED Alan Cook 11-14-83
APPROVALS

CUSTOMER
ARKANSAS POWER & LIGHT CO
NUCLEAR ONE-UNIT 1

TITLE
CALIBRATION STD 40857

NEXT ASSY | SUPERSEDES

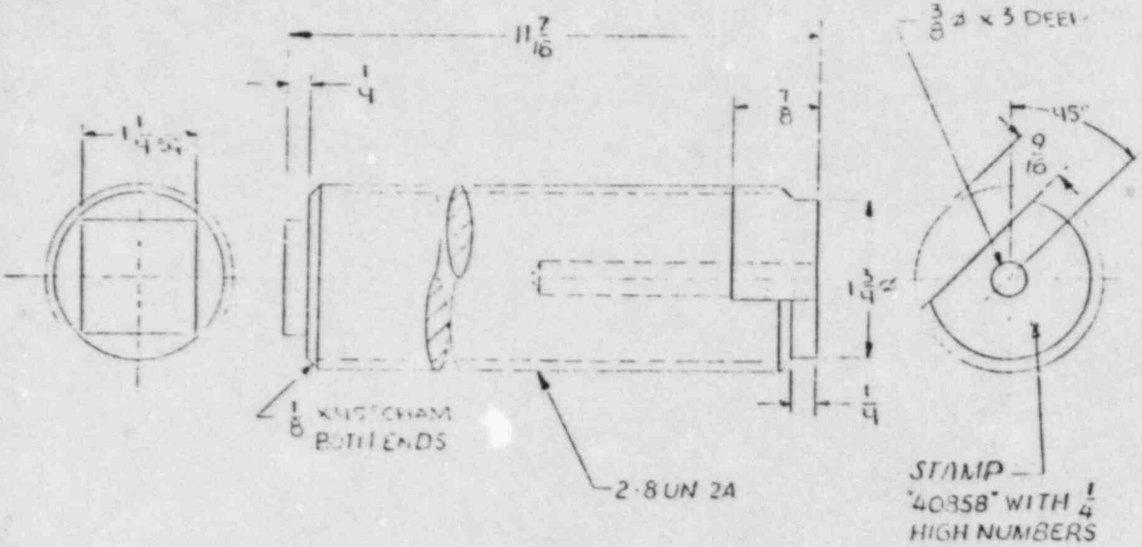
DWG NO
G-6370-501-121 01

JOB NO 6371035 | COMPONENT CODE | SCALE 1/2 | SHEET 1 OF | REV

H G F E D C B A

BILL OF MATERIALS
QUANTITIES ARE FOR

GROUP NO. & QUANTITY 6	5	4	3	2	1	ITEM NO.	NAME	PIECE NO.	MATERIAL	REMARKS
					X	1	CALIBRATION STD 40858	C-6370-501-122-1	SA320 GR L43	



1- UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES

C-6370-501-122
C1

CERTIFIED FOR CONSTRUCTION

REV	DESCRIPTION	BY	CHK	APPD	DATE
C1	CERTIFIED FOR CONSTRUCTION PER EWR 2463 290				

UNLESS OTHERWISE SPECIFIED
DIMENSIONING & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING

DIMENSIONS	UNDER 1	1 - 10	OVER 10
DECIMAL	± .005	± .005	± .010
FRACTION	± 1/64	± 1/32	± 1/16

BREAK CORNERS 1/64 APPROX. R OR CHAM — FILLETS 1/64 TO 1/32 R
FINISH (√) AA125 MICRO IN.
ANGLES ± 0° - 30' | CHAM ± 5°

COMBUSTION ENGINEERING POWER SYSTEMS
NUCLEAR POWER SYSTEMS

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DESIGN BY E.R. Reed 12/12/8
CHECKED BY [illegible] 12/12/8
APPROVALS [illegible]

CUSTOMER
ARKANSAS POWER & LIGHT CO
NUCLEAR ONE-UNIT 1

TITLE
CALIBRATION STD
40858

NEXT ASSY | SUPERSEDES

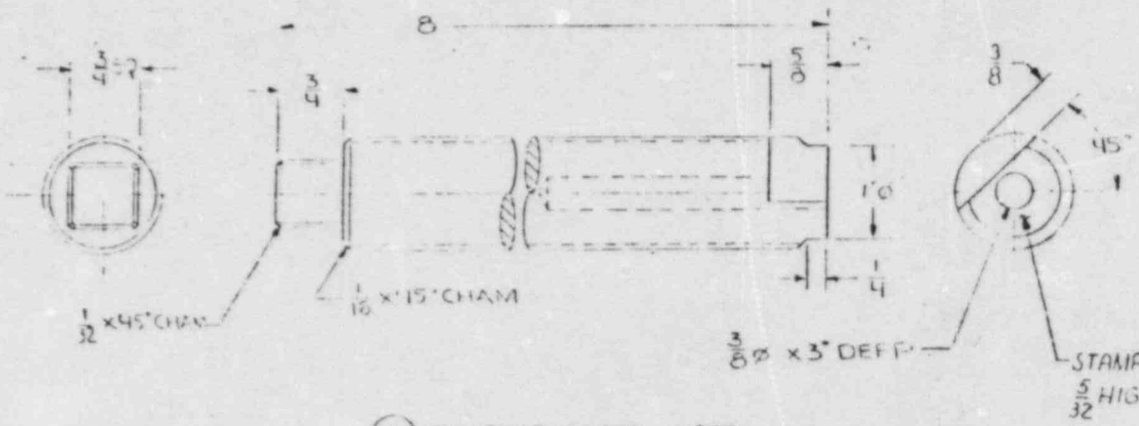
JOB NO. 661035 | CUSTOMER CODE | SCALE 1/1

DWG. NO. C-6370-501-122 01
SHEET 1 OF 1 REV

BILL OF MATERIALS

QUANTITIES ARE FOR

GROUP NO & QUANTITY						ITEM NO	NAME	PIECE NO.	MATERIAL	REMARKS
6	5	4	3	2	1					
					X	1	CALIBRATION STD 40859	C-6370 501-123-1	SA320 GR L43	



1. UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES

C-6370-501-123 01

(1) CALIBRATION STD 40859

CERTIFIED FOR CONSTRUCTION

NO.	DESCRIPTION	BY & DATE	CK'D & DATE	ENG APPD	PROJ APPD
01	1-CERTIFIED FOR CONSTRUCTION PER REV REQ 7278 270				

UNLESS OTHERWISE SPECIFIED
DIMENSIONING & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING

DIMENSIONS	UNDER 6	6 - 18	OVER 18
DECIMAL	± .005	± .005	± .010
FRACTION	± 1/64	± 1/32	± 1/16

BREAK CORNERS 1/64 APPROX R OR CHAM — FILLETS 1/64 TO 1/32 R
FINISH 1/1 AA125 MICRO IN.
ANGLES ± 0° - 30' CHAM ± 5°

C-E POWER SYSTEMS
NUCLEAR POWER SYSTEMS

DRAWN BY [illegible] 11-12-71
ENGINEER [illegible] 12-27-72
APPROVALS [illegible] 12-27-72

CUSTOMER
ARKANSAS POWER & LIGHT CO.
NUCLEAR ONE-UNIT

TITLE
CALIBRATION STD 40859

NEXT ASSY | SUPERSEDES

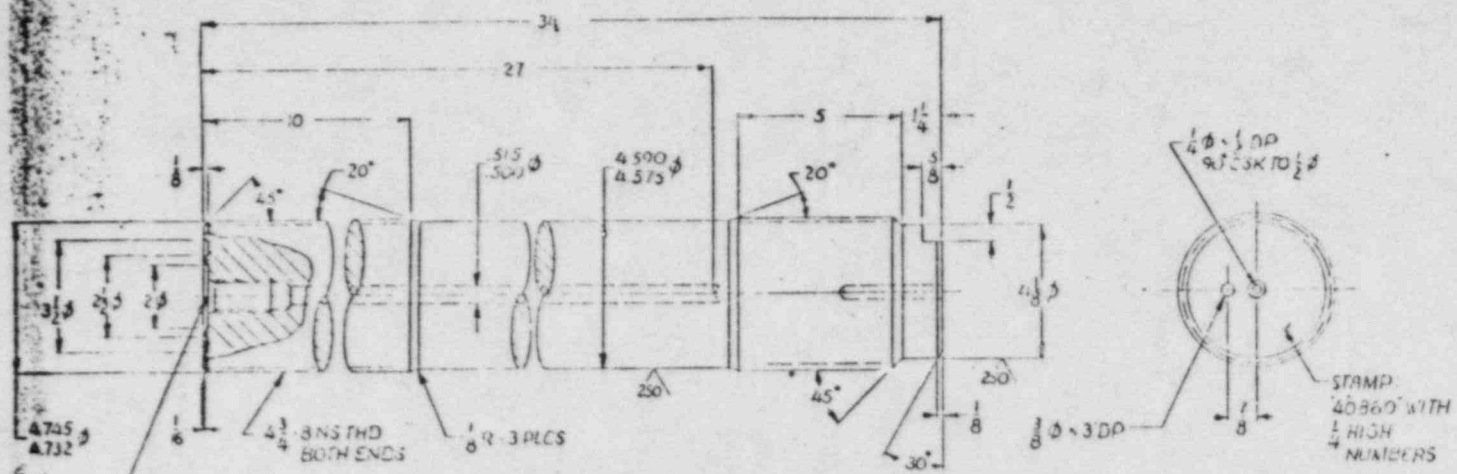
A/E NO. 6761055 | COMPONENT CODE | SCALE 1/1

DWG NO. C-6370-501-123 01

SHEET | OF | REV

BILL OF MATERIALS

ITEM NO	NAME	PIECE NO	MATERIAL	REMARKS
1	CALIBRATION STD 40860	D-6370-501 (-1)	A-370-GR.(-1)	



1. UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES

D-6370-501-1

(1) CALIBRATION STD 40360

CERTIFIED FOR CONSTRUCTION

REV	DESCRIPTION	
5	CERTIFIED FOR CONSTRUCTION PER REVISED 4678 290	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING
DIMENSIONS | DECIMAL | FRACTION
BREAK CORNERS 1.64 APPROX Ø OR CHAM - FILLETS 1.64 TO 1.32 R

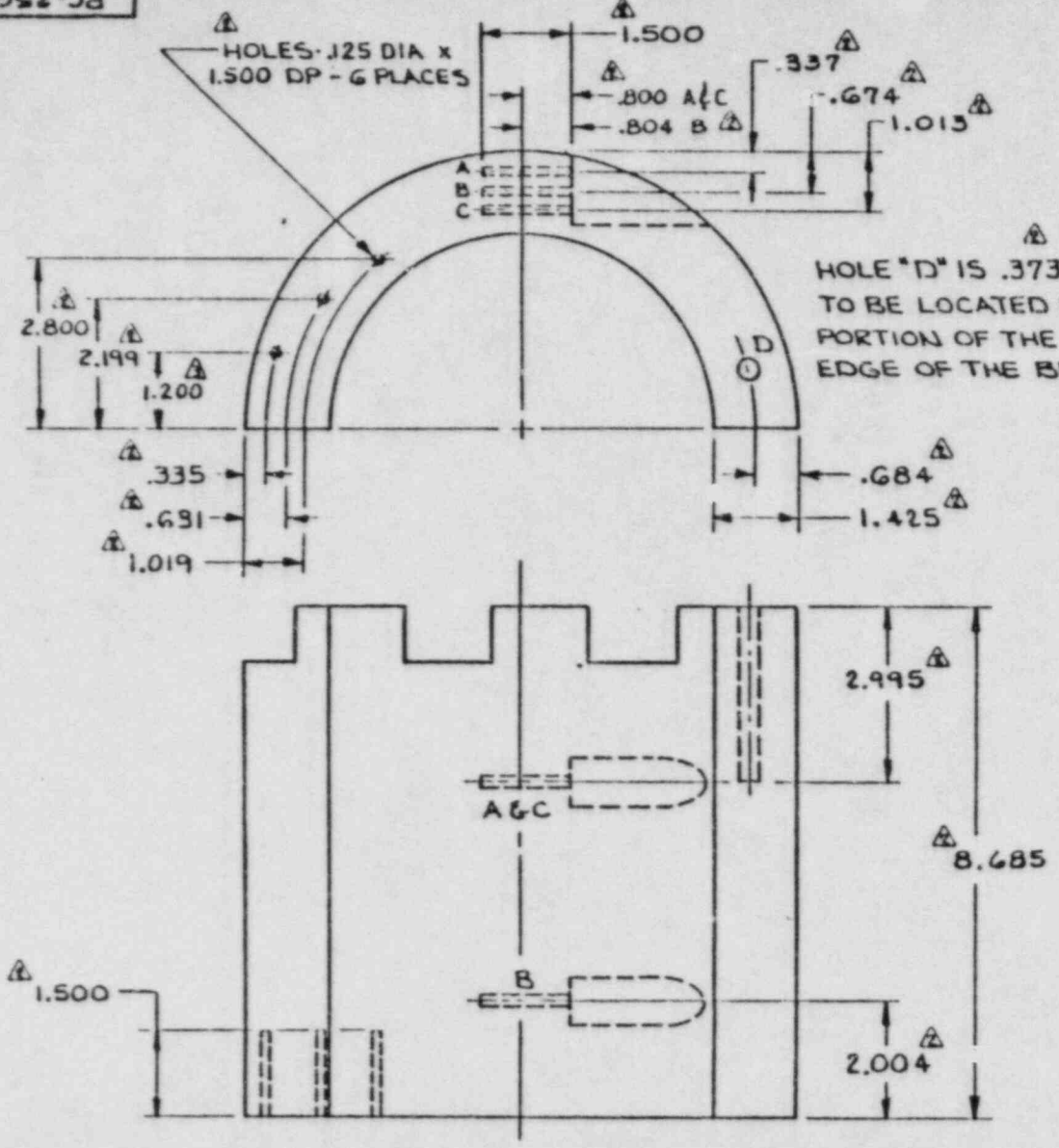
POWER SYSTEMS

ARKANSAS POWER & LIGHT CO
NUCLEAR ONE - UNIT 1

CALIBRATION
40860

D-5370-501-2

PC-25612-



HOLE "D" IS .373 DIA FLAT BOTTOM TO BE LOCATED IN THE CASTELLATED PORTION OF THE NUT NEAREST THE EDGE OF THE BLOCK.

NOTES:

1. DIMENSIONAL TOLERANCES:
   X.X ± .1"
   X.XX ± .05"
   .XXX ± .005"
2. BASE MATERIAL
   A-540 GR B-23
3. SIX HOLES - .125" x 1.5" MIN. DEEP.
4. USE FOR RV CLOSURE NUTS.

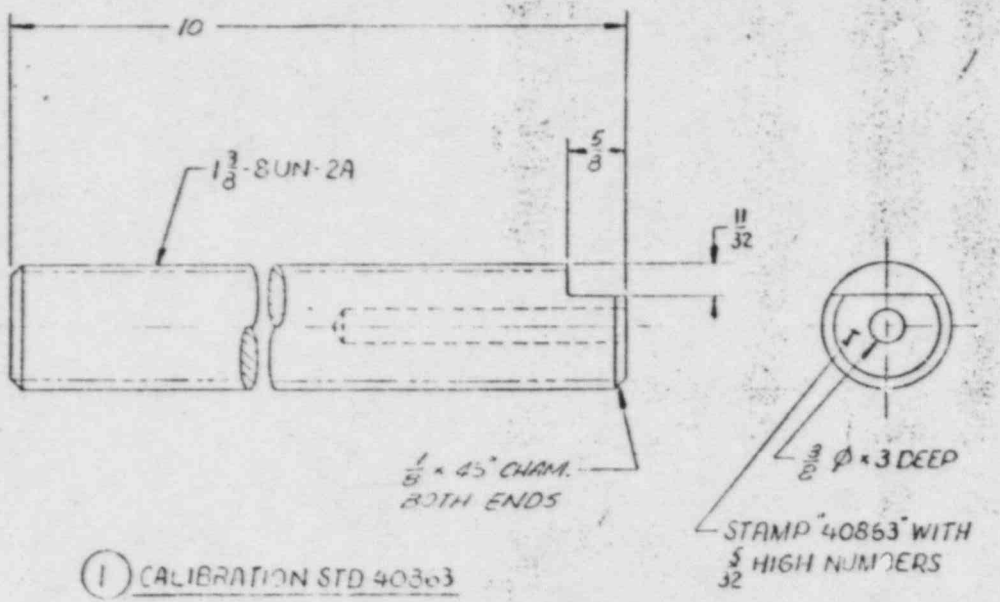
THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MYLAR FILM
NO.	DATE		
1	6-17-74	REVISED & REDRAWN	
2		AS-BUILT REV.	
3		1.500 WAS 1.501	
4		40861 WAS 40826	

B.R. Rhodes		R.V. CLOSURE NUT CALIBRATION BLOCK, TYP 40861	PC-25612
6-17-74	MGH		8-4

BILL OF MATERIALS
QUANTITIES ARE FOR

GROUP NO. & QUANTITY						ITEM NO.	NAME	PIECE NO.	MATERIAL	REMARKS
6	5	4	3	2	1					
					X	1	CALIBRATION STD 40863	C-6370-501-125	A193 Gr B7	



(1) CALIBRATION STD 40363

1. UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES

C-6370-501-125 01

CERTIFIED FOR CONSTRUCTION

REV	DESCRIPTION			ENG APPR	CHG NO
01	CERTIFIED FOR CONSTRUCTION PER REVREQ 4673 290				

UNLESS OTHERWISE SPECIFIED
DIMENSIONING & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING

DIMENSIONS	UNDER 6	6 - 18	OVER 18
DECIMAL	± .005	± .010	± .010
FRACTION	± 1/64	± 1/32	± 1/16

BREAK CORNERS 1/64 APPROX. R OR CHAM — FILLETS 1/64 TO 1/32 R
FINISH 1/1 AA125 MICRO IN.
ANGLES ± 0° - 30' CHAM ± 5°

POWER SYSTEMS
NUCLEAR POWER SYSTEMS

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DRAWN BY R. Bilz 11-2-84
CHECKER
APPROVALS

CUSTOMER
ARKANSAS POWER & LIGHT CO.
NUCLEAR ONE - UNIT

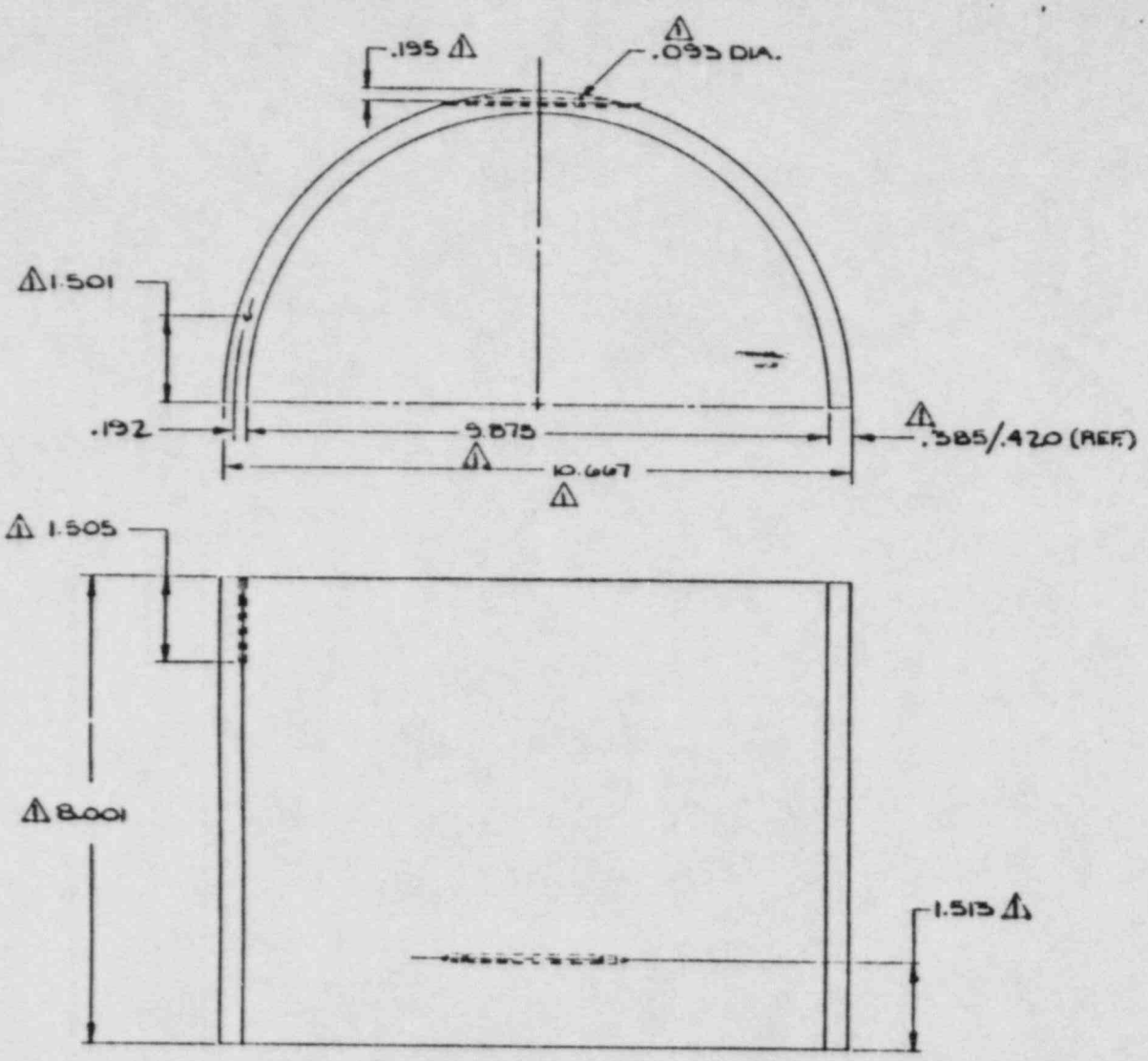
TITLE
CALIBRATION STD 40863

NEXT ASS'Y | SUPERSEDES

DWG NO
C-6370-501-125 01

J.O. NO. 261035 | COMPONENT CODE | SCALE 1/1 | SHEET 1 OF 1

Q 0122211



THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MICROFILM
DWG NO	DATE	DESCRIPTION	ORIGINAL
1	12-11-80	AS-BUILT DIMS.	Changed

INFORMATION REQUIRED

1. SIZE 10".
2. TYPE OF MAT. SA312 OR SA378-304SS.
3. ARKANSAS POWER & LIGHT.
4. AP&L UNIT NO. 1.
5. CONTRACT 568-0341-10-02.
6. DATA BASE NO. 40864.

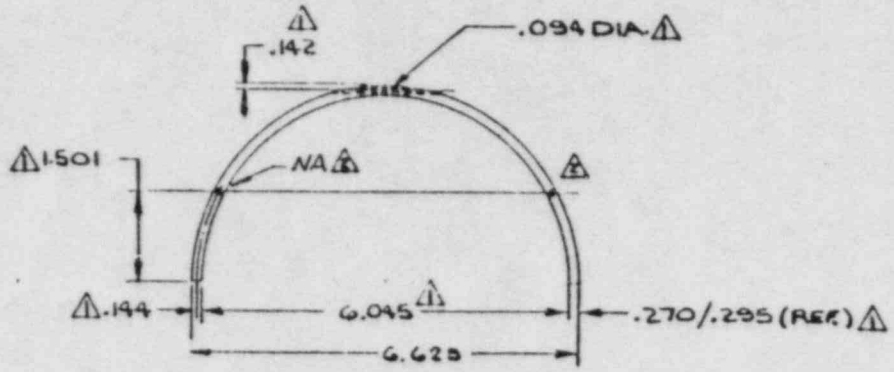
NOTES:

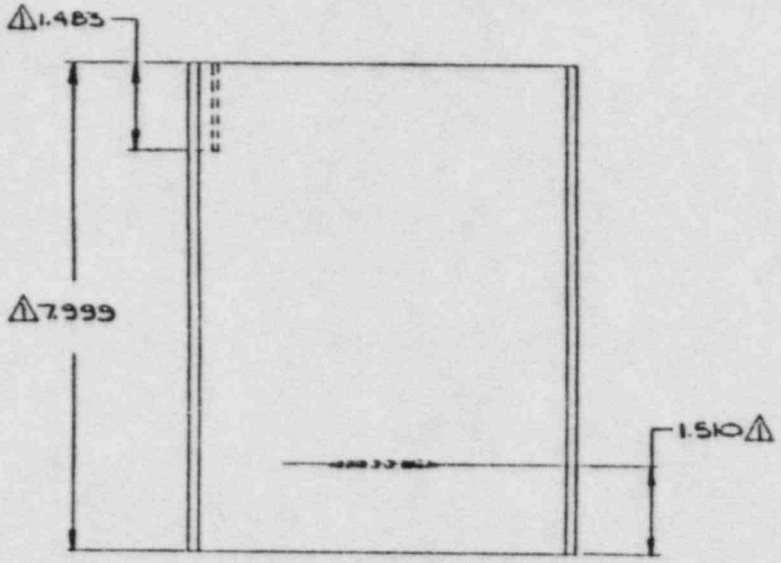
1. TOL. FOR .XX = .01
   TOL. FOR .XXX = .003
   TOL. FOR FRACTION = ± 1/32.

DRAWN BY TREECE 12-11-80 CHK'D MCM

DH REMOVAL SYSTEM PIPING
CAL. BLK DB 40864

SCALE 6 INCHES = 1 FOOT
1122840 B-1





THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

REVISIONS			MICROFILM
DRAW NO.	DATE	DESCRIPTION	ORIGINAL
1	7-1-80	AS-BUILT DIMS.	Comp
2	8-7-80	CHG'D HOLE LOCATION	

INFORMATION REQUIRED

1. SIZE 6" ID.
2. TYPE OF MAT. SA312 OR 376 304SS.
3. ARKANSAS POWER & LIGHT.
4. AP&L UNIT 1.
5. CONTRACT 589-0341-10-02.
6. DATA BASE NO. 40865.

NOTES:

1. TOL. FOR .XX = .01
   TOL. FOR .XXX = .003
   TOL. FOR FRACTION = ± 1/32.

DRWN: JAEMER | CHK'D:
DATE: 2-11-80 | APP'D: MGM

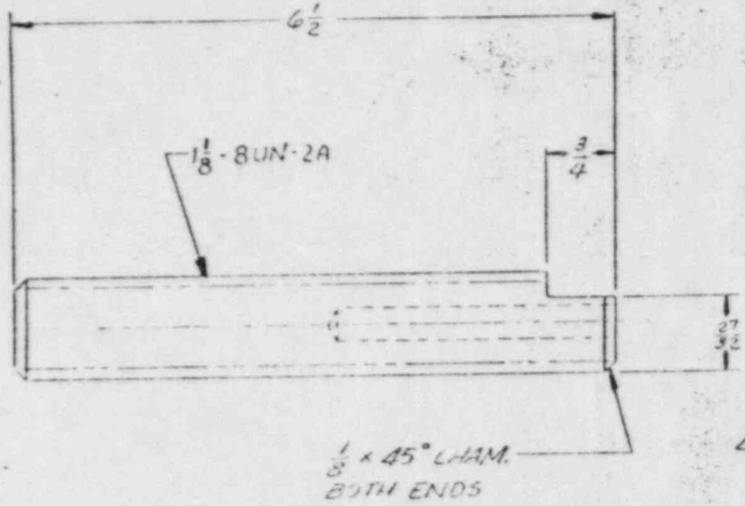
DH REMOVAL SYSTEM PIPING
CAL BLK DB 40865

SCALE: 6 INCHES = 1 FOOT
1122841 B-2

BILL OF MATERIALS

QUANTITIES ARE FOR

GROUP NO. & QUANTITY 6	5	4	3	2	1	ITEM NO	NAME	PIECE NO.	MATERIAL	REMARKS
					X	1	CALIBRATION STD 40866	G6370-501-126	A193 GR B7	



1. UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES

G-6370-501-126
01

(1) CALIBRATION STD 40866

CERTIFIED FOR CONSTRUCTION

DESCRIPTION	BY & DATE	CHK'D DATE	ENG APPD	PROJ APPD
01-CERTIFIED FOR CONSTRUCTION PER REV REQ 4678-290				

UNLESS OTHERWISE SPECIFIED
DIMENSIONING & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING

DIMENSIONS	UNDER 6	6 TO 18	OVER 18
DECIMAL	± .005	± .005	± .010
FRACTION	± 1/64	± 1/32	± 1/16

BREAK CORNERS 1/64 APPROX. R OR CHAM — FILLETS 1/64 TO 1/32 R
FINISH (√) AA125 MICRO IN.
ANGLES ± 0° - 30' | CHAM ± 5°

POWER SYSTEMS
NUCLEAR POWER SYSTEMS

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CUSTOMER
ARKANSAS POWER & LIGHT CO.
NUCLEAR ONE-UNIT 1

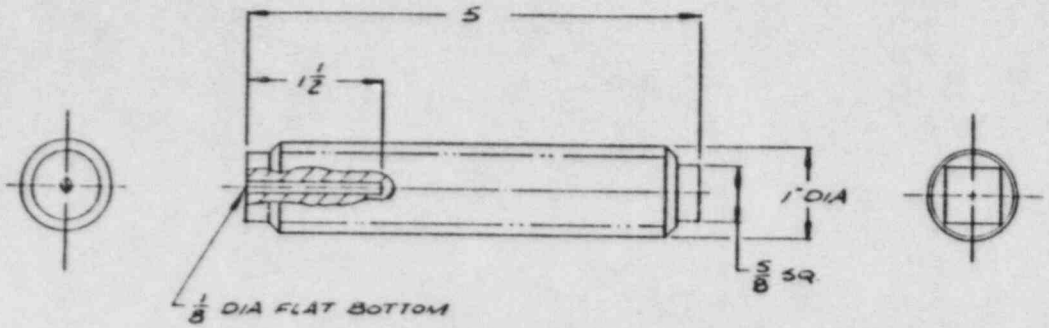
NEXT ASSY | SUPERSEDES
JOB NO 661035 | COMPONENT CODE | SCALE 1/1

DRAWN BY J. Kirkpatrick 11-12-93
CHECKED Jirkat 11-12-93
ENGINEER P.K. 11-12-93
P.E. 11-12-93

TITLE
CALIBRATION STD 40866

DWG NO G-6370-501-126 | 01 REV
SHEET 1 OF 1

REVISIONS			
REVISION NO	DESCRIPTION	DATE	APPROVAL



NOTES:

1. TOL FOR

FRACTIONS = ± 1/32

.XX = .01

.XXX = .010

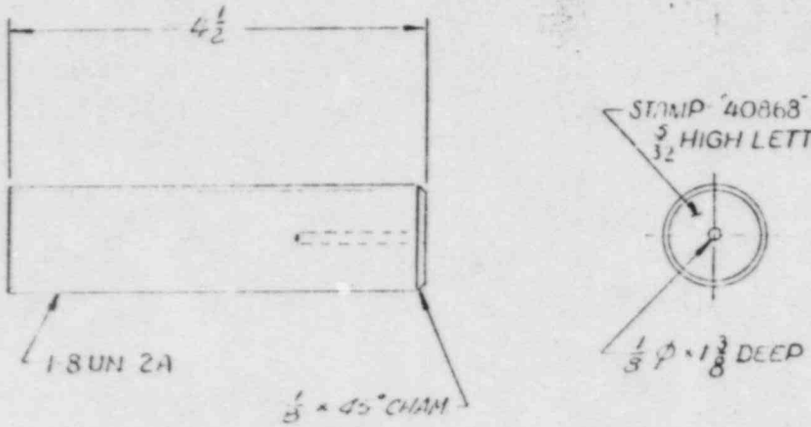
INFORMATION REQUIRED

1. SIZE: 1 DIA X 5 LG
2. MATERIAL: CARBON STEEL SA320L43
3. CONTRACT: 599-0341-10-02
4. CUSTOMER: ARKANSAS POWER AND LIGHT
5. DATA BASE NO. 40867

JEFFWOOD/ DWN BY	ARKANSAS POWER & LIGHT, SECONDARY HANDHOLE STUD #40867	THE BABCOCK & WILCOX CO. POWER GENERATION GROUP
CHKD BY		
PASSED BY		
APPVD BY	2-24-81 DATE	
SIZE SCL		DWG NO 1122980 C REV 0
DO NOT SCALE - USE DIMENSIONS	SCALE FULL	

BILL OF MATERIALS
QUANTITIES ARE FOR

GROUP NO. 6	5	4	3	2	1	ITEM NO	NAME	PIECE NO.	MATERIAL	REMARKS
					X	1	CALIBRATION STD 40868	C6370-501 127 1	SA193 B16	



(1) CALIBRATION STD 40868

1. UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES

C-6370-501-127 01

CERTIFIED FOR CONSTRUCTION

REV	DESCRIPTION	DRAWN	CHECKED	APPROVED	DATE
01	CERTIFIED FOR CONSTRUCTION PER SER REQ 4678-290				

UNLESS OTHERWISE SPECIFIED
DIMENSIONING & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING

DIMENSIONS	UNDER 6	6 - 18	OVER 18
DECIMAL	± .015	± .005	± .010
FRACTION	± 1/64	± 1/32	± 1/16

BREAK CORNERS 1/64 APPROX. R OR CHAM — EXCEPTS 1/64 TO 1/32 R
FINISH (√) AA125 MICRO IN.
ANGLES ± 0° - 30' | CHAM ± 5°

POWER SYSTEMS
NUCLEAR POWER SYSTEMS

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DRAWN BY [illegible] 3/14/84
CHECKED [illegible]
APPROVED [illegible]

CUSTOMER
ARKANSAS POWER & LIGHT CO.
NUCLEAR ONE-UNIT 1

TITLE
CALIBRATION STD 40868

NEXT ASSY | DIMENSIONS

J.O. NO. 61035 | COMPONENT CODE | SCALE 1/1

DWG NO. C-6370-501-127 01

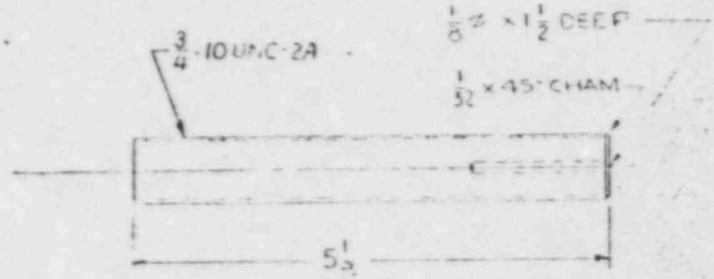
SHEET 1 OF 1 | REV

H G F E D C B A

BILL OF MATERIALS

QUANTITIES ARE FOR

GROUP NO. & QUANTITY 6	5	4	3	2	1	ITEM NO	NAME	PIECE NO.	MATERIAL	REMARKS
					X	1	CALIBRATION STD 40869	C-6370-501-128-1	SA540 B23	



(1) CALIBRATION STD 40869

1 UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES

C-6370-501-128
01

CERTIFIED FOR CONSTRUCTION

REV	DESCRIPTION	BY & DATE	CHK & DATE	ENG APPR & DATE	MFG APPR & DATE
01	CERTIFIED FOR CONSTRUCTION PER DCR-RBD-4678-230				

UNLESS OTHERWISE SPECIFIED
DIMENSIONING & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING

DIMENSIONS	UNDER 6	6 - 18	OVER 18
DECIMAL	± .015	± .005	± .010
FRACTION	± 1/64	± 1/32	± 1/16

BREAK CORNERS 1/64 APPROX. R OR CHAM - FILLETS 1/64 TO 1/32 R
FINISH 1/1 AA125 MICRO IN.
ANGLES ± 0° 30' CHAM 1/5"

POWER SYSTEMS
NUCLEAR POWER SYSTEMS

DRAWN BY JE TCE 10-12-82
CHECKED 2-1-83
APPROVALS 2-1-83
2-1-83

CUSTOMER
ARKANSAS POWER & LIGHT CO.
NUCLEAR ONE-UNIT I

TITLE
CALIBRATION STD 40869

NEXT ASSY | SYSTEM/UNIT

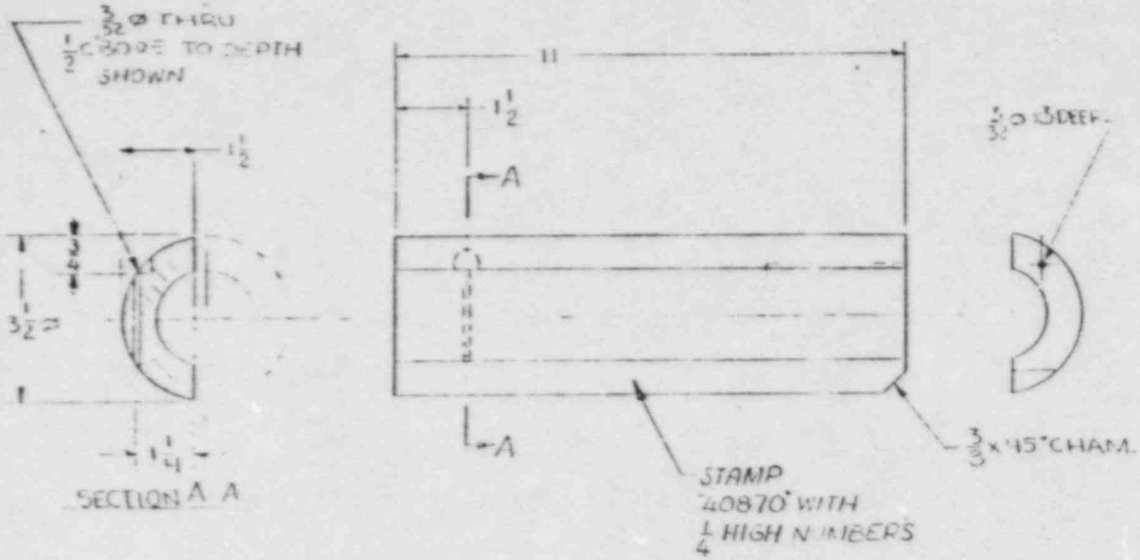
APPD NO. 561035 | COMPONENT CODE | SCALE 1/1

DWG NO. C-6370-501-128 REV. 01

SHEET 1 OF 1

BILL OF MATERIALS
QUANTITIES ARE FOR

GROUP NO. & QUANTITY						ITEM NO	NAME	PIECE NO.	MATERIAL	REMARKS
6	5	4	3	2	1					
					X	1	CALIBRATION STD 40870	C-6370-501-129-1	304 SST	



1- UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES.

C-6370-501-129

01

(1) CALIBRATION STD 40370

CERTIFIED FOR CONSTRUCTION

REVISIONS				
	DESCRIPTION			
01	ISSUED FOR CONSTRUCTION PER REV REQ 4413 270			

UNLESS OTHERWISE SPECIFIED
DIMENSIONING & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING

DIMENSIONS	UNDER 6	6 - 18	OVER 18
DECIMAL	± .005	± .005	± .010
FRACTION	± 1/64	± 1/32	± 1/16

BREAK CORNERS 1/64 APPROX R OR CHAM — FILLETS 1/64 TO 1/32 R
FINISH (µ) AA125 MICRO IN
ANGLES ± 0° - 30' | CHAM ± 5°

C-E POWER SYSTEMS
NUCLEAR POWER SYSTEMS

DRAWN BY L.CASSIDY 11-14-83
CHECKED 12-1-83
APPROVALS

CUSTOMER
ARKANSAS POWER & LIGHT CO.
NUCLEAR ONE - UNIT 1

TITLE
CALIBRATION STD 40870

SUPERSEDES

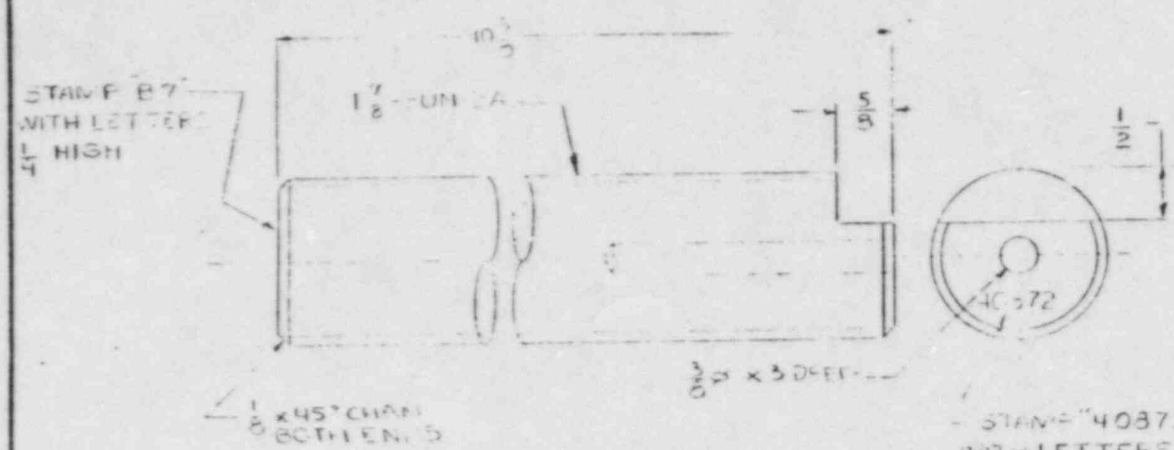
DWG NO. C-6370-501-129 01
SHEET 1 OF 1 REV

C.E. NO. 11035 | COMMENT CODE | SCALE 1/2

BILL OF MATERIALS

QUANTITIES ARE FOR

GROUP NO & QUANTITY 6	5	4	3	2	1	ITEM NO	NAME	PIECE NO	MATERIAL	REMARKS
						1	CALIBRATION STD #40872	C-6370-501-130-1	SA193GRB7	



1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES

C-6370-501-130 01

(1) CALIBRATION STANDARD #40872

CERTIFIED FOR CONSTRUCTION

NO.	DESCRIPTION	DRN. DATE	CHK. DATE	ENG. APPR.	PROJ. APPR.
01	CERTIFIED FOR CONSTRUCTION PER REV REQ 4673-293				

UNLESS OTHERWISE SPECIFIED
DIMENSIONING & TOLERANCING PER ANSI Y14.5 1973
DIMENSIONS APPLY AT 68°F (20°C)
DO NOT SCALE DRAWING

DIMENSIONS	UNDER 6	6 - 18	OVER 18
DECIMAL	± .005	± .005	± .010
FRACTION	± 1/64	± 1/32	± 1/16

BREAK CORNERS 1/64 APPROX. R OR CHAM — FILLETS 1/64 TO 1/32 R
FINISH (√) AA125 MICRO IN.
ANGLES ± 0° - 30' | CHAM ± 5°

POWER SYSTEMS
NUCLEAR POWER SYSTEMS

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CUSTOMER: ARKANSAS POWER & LIGHT CO.
NUCLEAR ONE - UNIT 1

NEXT ASSY | SUPERSEDES
DWG NO 561055 | COMPONENT CODE | SCALE 1/1

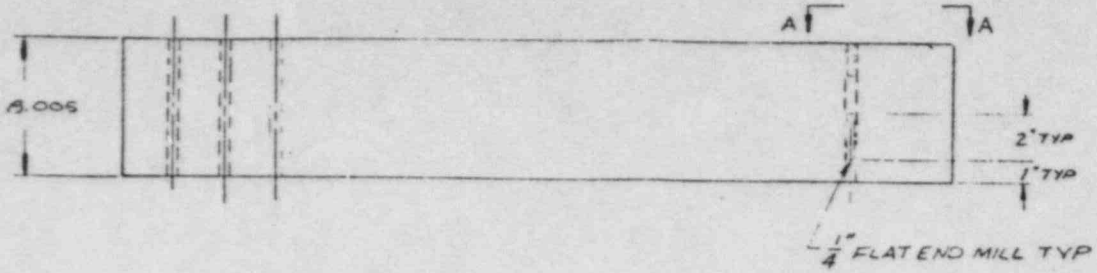
DRAWN BY	[illegible]	11-17-82
CHECKED	[illegible]	11-17-82
APPROVALS	[illegible]	11-17-82

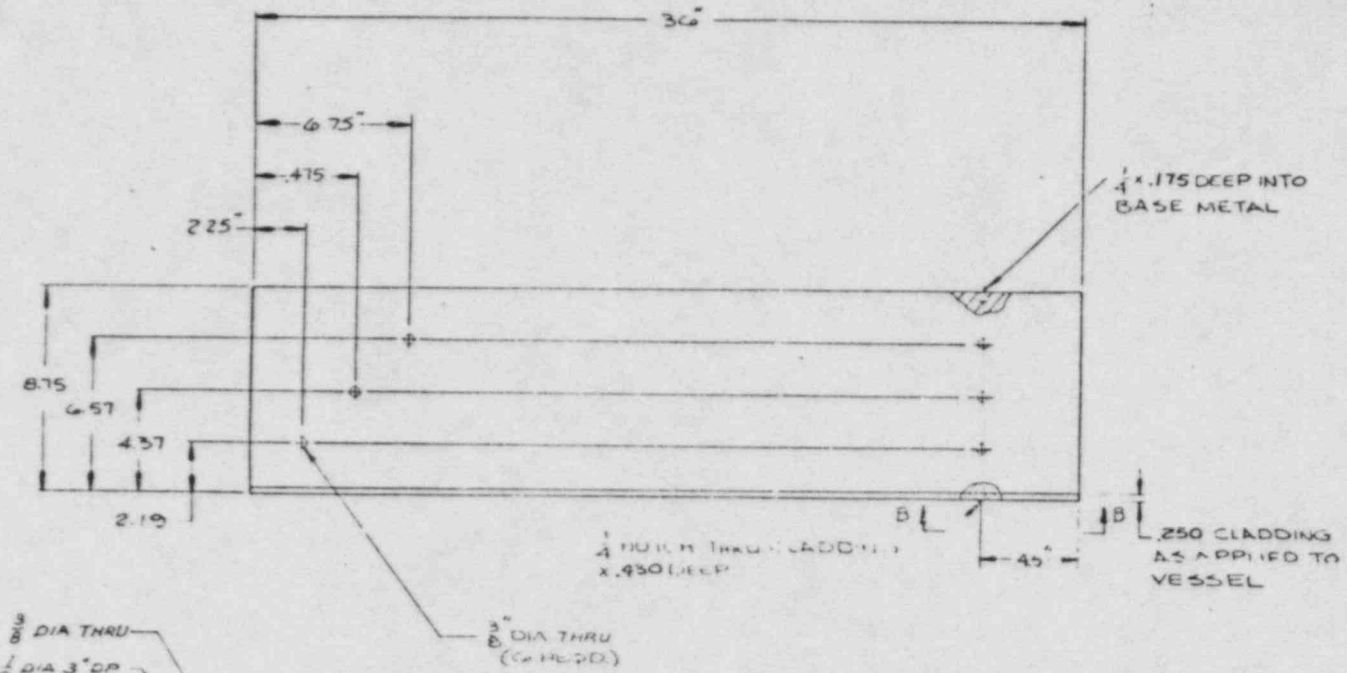
TITLE: CALIBRATION STANDARD #40872

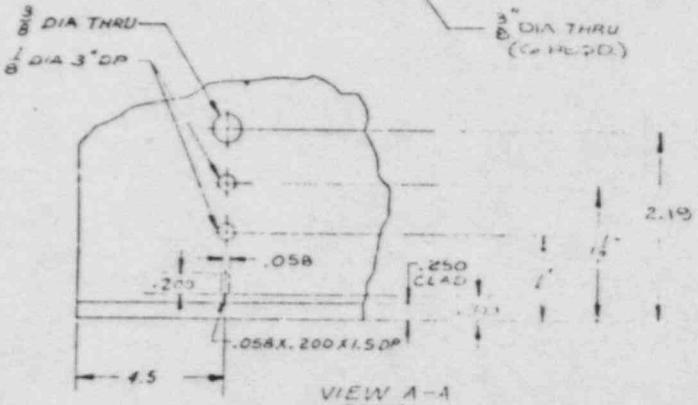
DWG NO C-6370-501-130 01
SHEET OF REV

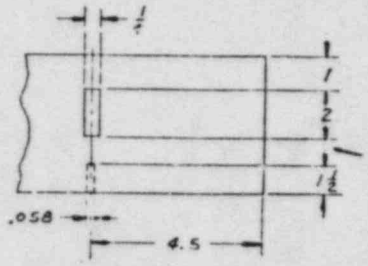
G H F E D C B A

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED
1	AS BUILT	11/1/82	









VIEW B-B
SCALE: NONE

REQUIRED INFORMATION:

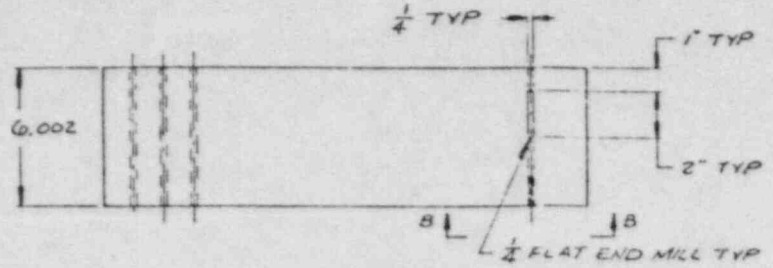
1. SIZE 36" x 6" x 9"
2. MATERIAL
   BASE SA533GRB
   CLADDING STAINLESS STEEL
3. PLANT LOCATION ANO-1
4. CUSTOMER: ARKANSAS POWER AND LIGHT CO.
5. CONTRACT: 599-0341-10-02
6. DATA BASE NO. 40900
7. CORE REGION CIRCLE SEAMS

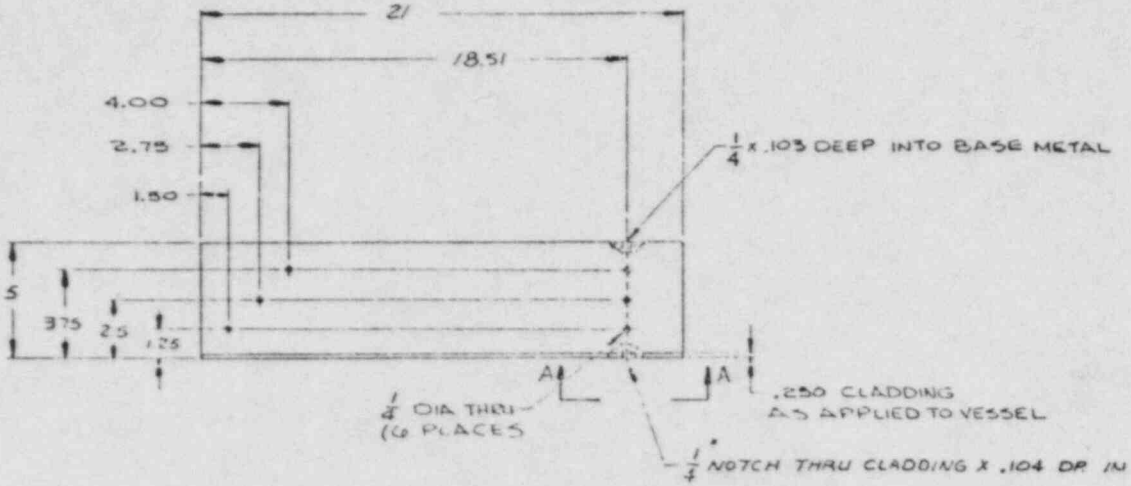
NOTES:

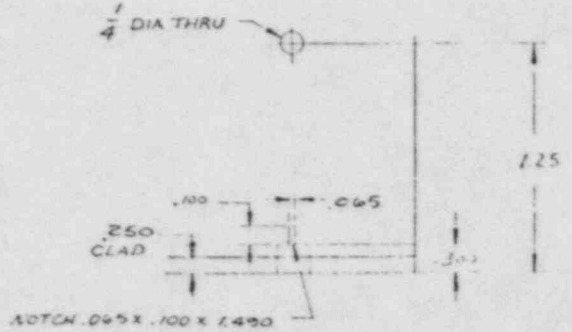
1. TOL. FOR FRACTIONS = ± 1/32
   .XX = ± .030
   .XXX = ± .010
2. FOR FOR CANNING INFO SEE SHEET 2 OF DWG. 1120009
3. HOLES ARE TO BE PLUGGED AND SEAL WELDED AFTER DRILLING AND INSPECTION.

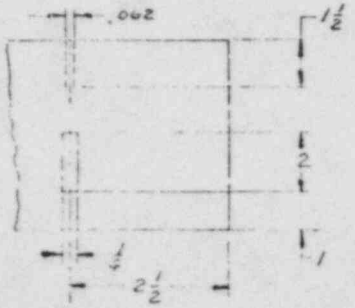
DES BY Cates	ARKANSAS POWER & LIGHT ANO-1 CALIBRATION BLOCK # 40900	
DWN BY KPS		
CHK BY KPS		
APP BY		
DATE 8-30-82		
SCALE NONE		1135870 C

REVISIONS			
SECTION NO.	DESCRIPTION	DATE	APPROVED
1	AS BUILT	11/1/02	RFS









REQUIRED INFORMATION:

1. SIZE - 5 x 21 x 6
2. MATERIAL
   BASE - SA-508 CL2
   CLADDING - STAINLESS STEEL
3. PLANT LOCATION - ANO-1
4. CUSTOMER - ARKANSAS POWER AND LIGHT CO.
5. CONTRACT - 599-0341-10-02
6. DATA BASE # - 40901
7. R.V. LAB. HD TO DUTCHMAN.

NOTES:

1. TOL FRALTION = ± 1/32
   .XX = ± .030
   .XXX = ± .010
2. ALL HOLES SCRIBED TO DEPTH
3. FOR CANNING INFO. SEE SHEET 2 OF DRAWING 1120003011
4. HOLES ARE TO BE PLUGGED AND SEAL WELDED AFTER DRILLING AND INSPECTION.

DRN BY GWD
CHKD BY CMS
APPD BY
DATE 12-10-02

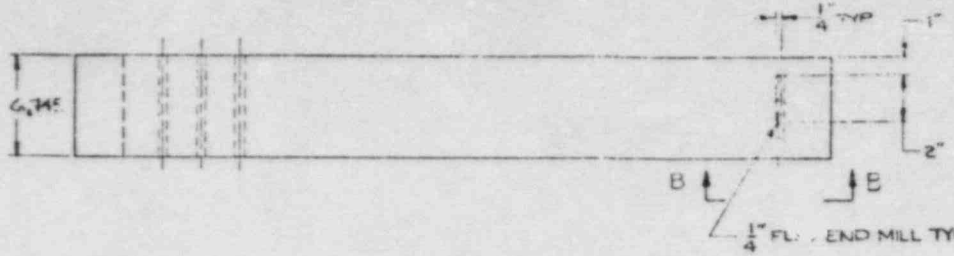
ARKANSAS POWER & LIGHT ANO-1
CALIBRATION
BLOCK # 40901

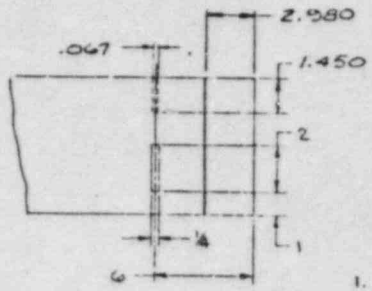
FINISH NONE

DWG NO 1135871 C

REVISIONS

REVISION NO.	DESCRIPTION	DATE	APPROVAL
1	AS BUILT	11/1/02	





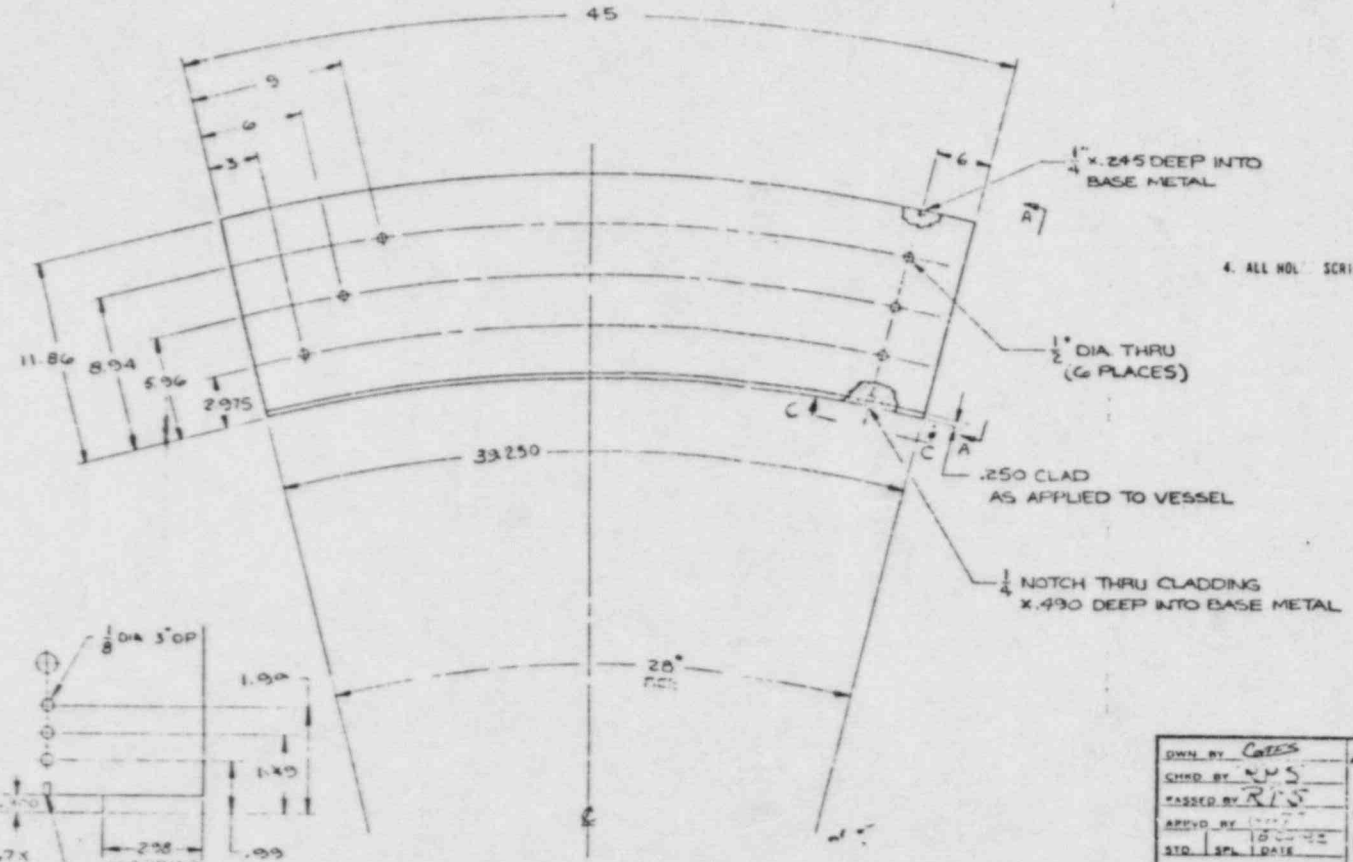
VIEW C-C
NOT TO SCALE

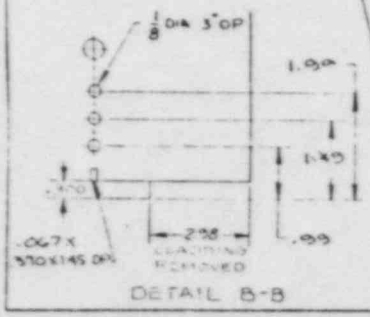
REQUIRED INFORMATION

1. SIZE 45" x 6 x 12
2. MATERIAL
   BASE - SA-508 CL-2
   CLADDING - STAINLESS STEEL
3. PLANT LOCATION - ANO-1
4. CUSTOMER - ARKANSAS POWER AND LIGHT CO
5. CONTRACT - 599-0341-13-02
6. DATA BASE # - 40902
7. R.V. INLET & OUTLET NOZZLES LIGAMENT

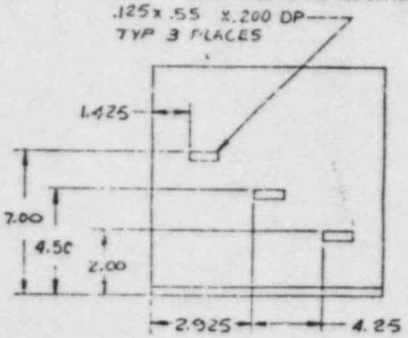
NOTES:

1. TOL FOR FRACTION = ± 1/32
   .XX = ± .030
   .XXX = ± .010
2. FOR CANNING INFO. SEE SHEET 2 OF DWG. 1120D981.
3. HOLES ARE TO BE PLUGGED AND SEAL WELDED AFTER DRILLING AND INSPECTION.
4. ALL HOLES SCRIBED TO DEPTH.





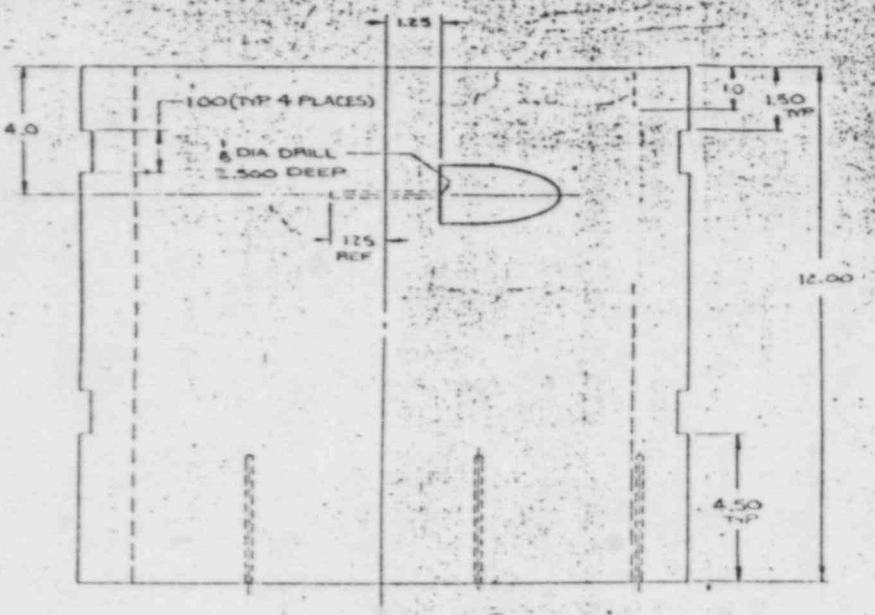
DETAIL B-B



VIEW A-A

DWN BY CBES	ARKANSAS POWER & LIGHT ANO-1 CALIBRATION BLOCK # 40902	
CHKD BY NMS		
PASSED BY RLS		
APPVD BY		
STD SPL DATE		
DO NOT SCALE USE DIMENSIONS	SCALE: NONE	DWG NO. 1135872 C

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVAL
1	AS-BUILT	12-10-82	RPS

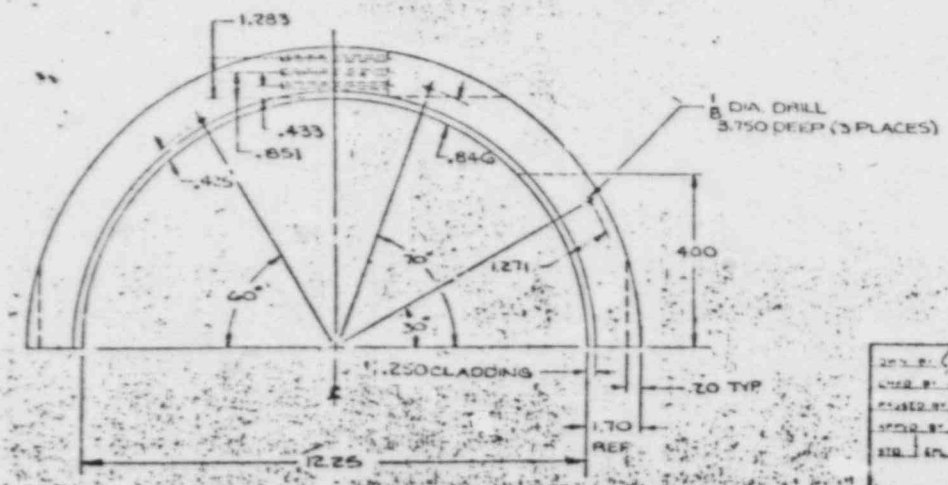


REQUIRED INFORMATION

1. SIZE - 12.25 I.D. x 1.70
2. MATERIAL
   BASE - SA-508 CL-2
   CLADDING - STAINLESS STEEL
3. PLANT LOCATION - ANO-1
4. CUSTOMER - ARKANSAS POWER AND LIGHT CO.
5. CONTRACT: 599-0341-10-02
6. DATA BASE # 40909
7. CORE FLOOD NOZZLE

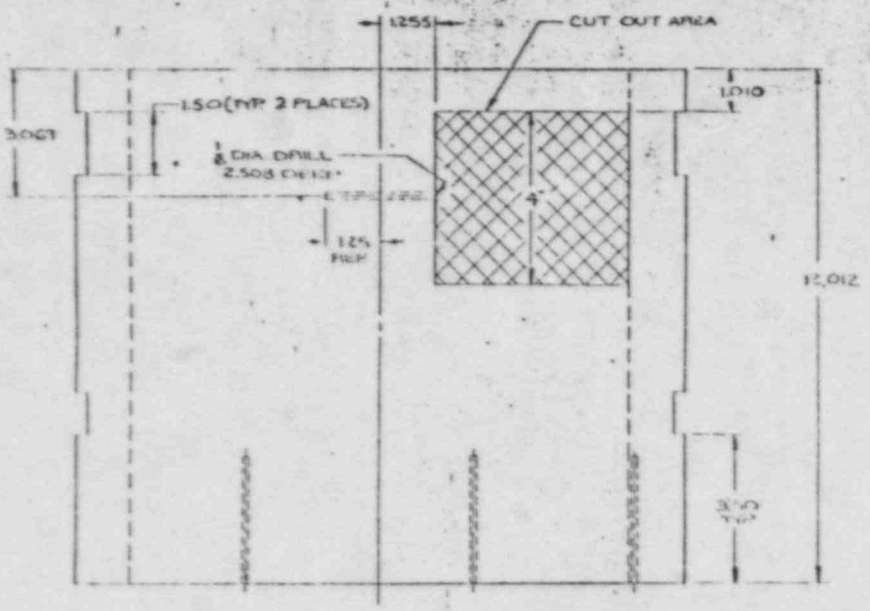
NOTES:

1. TOL FOR FRACTION = ± 1/32
   .XX = ± .030
   .XXX = ± .010
2. FOR CLADDING INFO. SEE SHEET 2 OF DWG 11200098L
3. HOLES ARE TO BE PLUGGED & SEAL SEAL WELDED AFTER DRILLING & INSPECTION.



DRAWN BY: CWES	ARKASAS POWER & LIGHT ANO-1 CALIBRATION BLOCK #40909	THE BABCOCK & WILCOX CO.	
CHKD BY: RPS			
APPROVED BY: RPS			
MFG APPD BY: CWT			
ENG APPD BY:	SCALE: NONE	1135873C	1

REVISIONS			
REVISION NO.	DESCRIPTION	DATE	APPROVAL
1	AS-BUILT DIMENSIONS	4-12-82	RPS

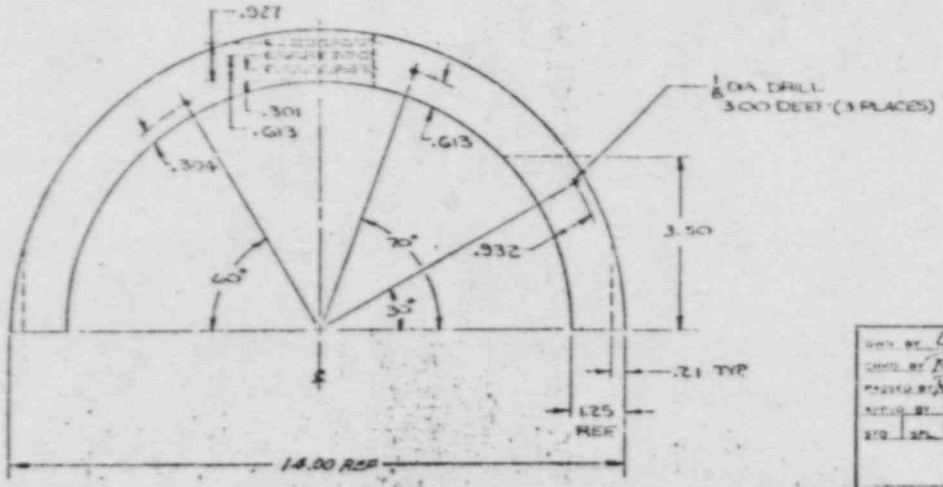


REQUIRED INFORMATION:

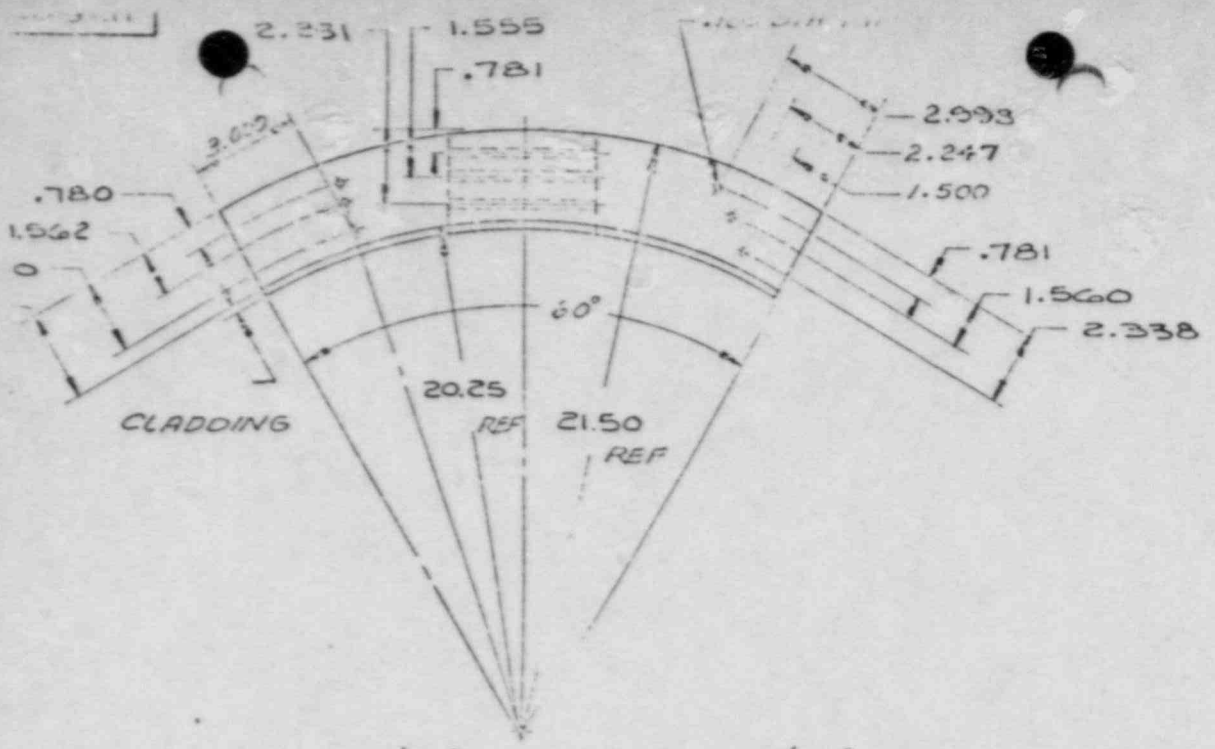
1. SIZE 14" SCH 160
2. MATERIAL SA376 TP316
3. PLANT LOCATION ANO 1
4. CUSTOMER ARKANSAS POWER AND LIGHT CO.
5. CONTRACT 583-0341-10-02
6. DATA BASE # 40904
7. CFN SAFE END

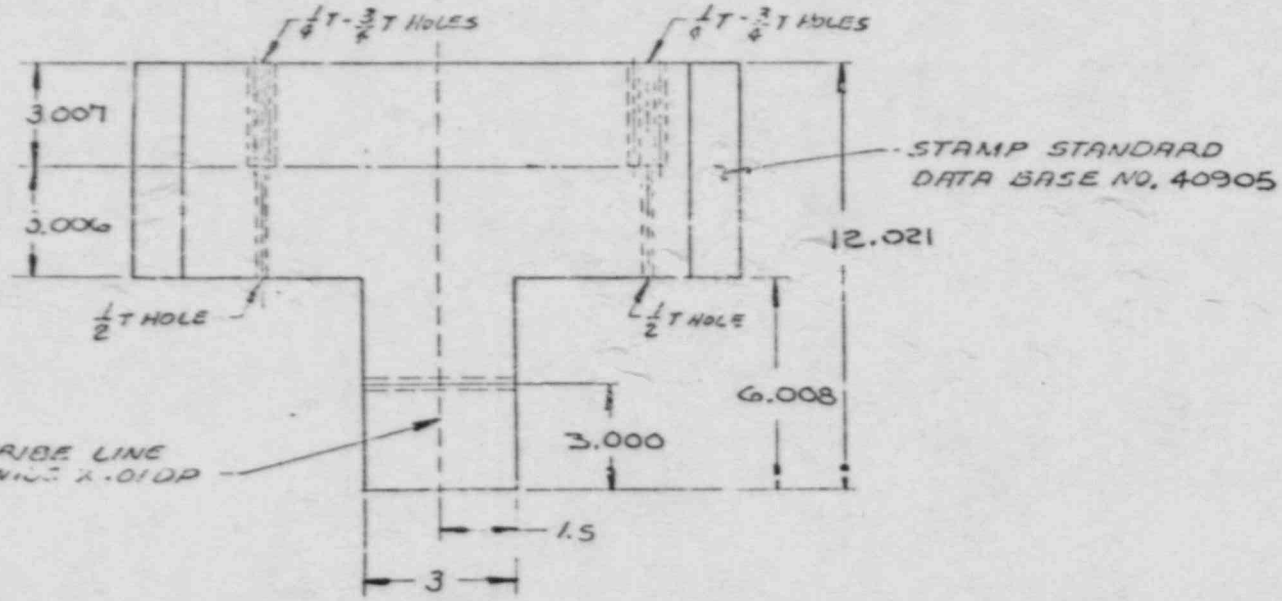
NOTES:

1. TOLERANCE FOR FRACTION = ± 1/32
   .XX = ± .030
   .XXX = ± .010
2. HOLES ARE TO BE PLUGGED AND SEAL WELDED AFTER DRILLING AND INSPECTION
3. ALL HOLES SCRIBED TO DEPTH



DRN BY CARES	ARKANSAS POWER & LIGHT ANO-1 CALIBRATION BLOCK # 40904	THE BABCOCK & WILCOX CO.	
CHKD BY RPS			
PROJ ENG RPS		DWG NO 1135874 C	REV 1
APPD BY CAT			
STD SPL DATE 4-13-82	SCALE NONE		





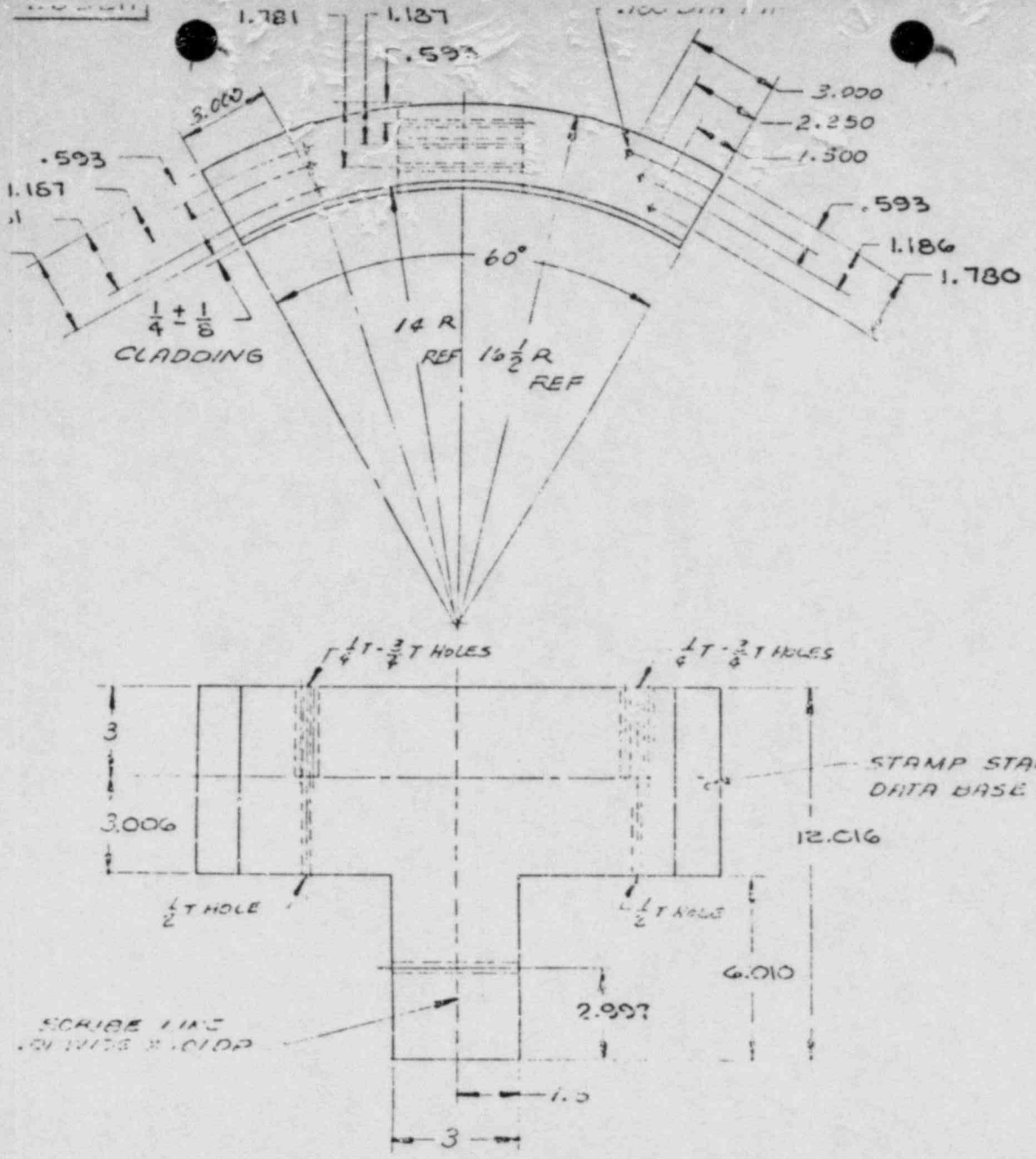
1	12-32	AS BUILT

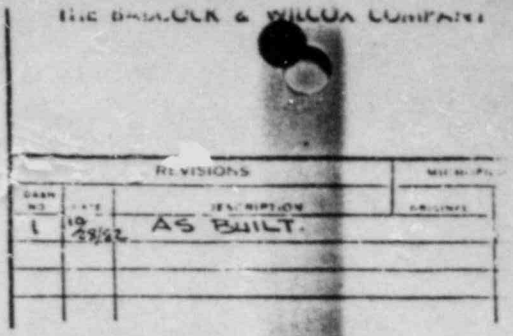
INFORMATION REQUIRED

1. SIZE - 43" O.D x 3.125 WALL
2. MATERIAL - A106 GR C
   CLADDING - STAINLESS STEEL
3. PLANT LOCATION - ANO-1
4. CUSTOMER - ARKANSAS POWER & LIGHT
5. CONTRACT # - 599-0341-10-02
6. DATA BASE # - 40905
7. R.V. NOZ TO PIPE

NOTES:

1. TOLERANCE
   FRACTION = ± 1/32
   .XX = .030
   .XXX ± .010
2. ALL HOLES SCRIBED TO DEPTH
3. FOR CANNING INFO SEE SHEET 2 OF DWG 1120038
4. HOLES ARE TO BE PLUGGED AND SEAL WELDED AFTER DRILLING & INSPECTION





INFORMATION REQUIRED:

1. SIZE - 33" O.D. x 2.50
2. MATERIAL - A-106 GR C
   CLADDING - STAINLESS STEEL
3. PLANT LOCATION - ANO-1
4. CUSTOMER - ARKANSAS POWER & LIGHT
5. CONTRACT # - 599-0341-10-02
6. DATA BASE # - 40906
7. R.V. NOZ TO PIPE

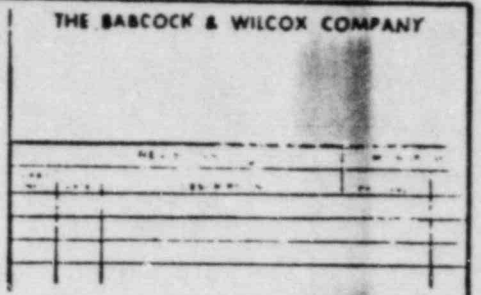
NOTES:

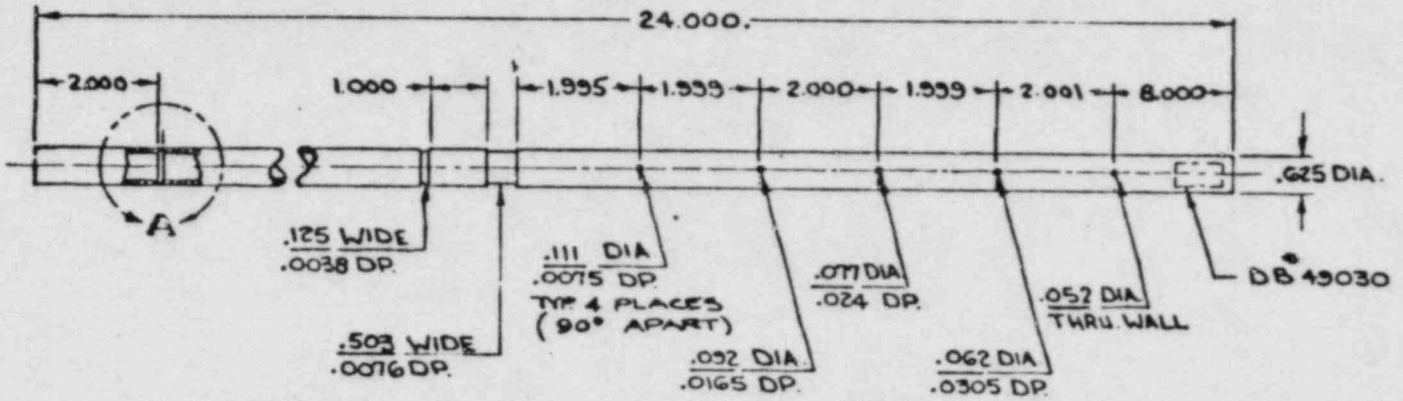
1. TOLERANCE
   FRACTION = ± 1/32
   .XX = .030
   .XXX = .010
2. ALL HOLES SCRIBED TO DEPTH
3. FOR CANNING INFO SEE SHEET 2 OF DWG 112[illegible]
4. HOLES ARE TO BE PLUGGED AND SEAL WELDED AFTER DRILLING & INSPECTION

ARKANSAS POWER & LIGHT
CALIBRATION BLOCK #40906 113[illegible]

B ESGSE11

THE BABCOCK & WILCOX COMPANY





INFORMATION REQUIRED

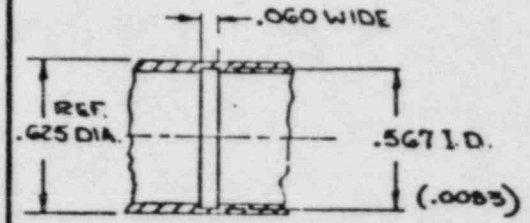
1 MATERIAL ASME SB163
.625 x .0375 WALL

2 SITE ANO 1

3 CUSTOMER ARK PWR & LIGHT CO.

4 CONTRACT 599-0341-10-03

5 DATA BASE NO 49030



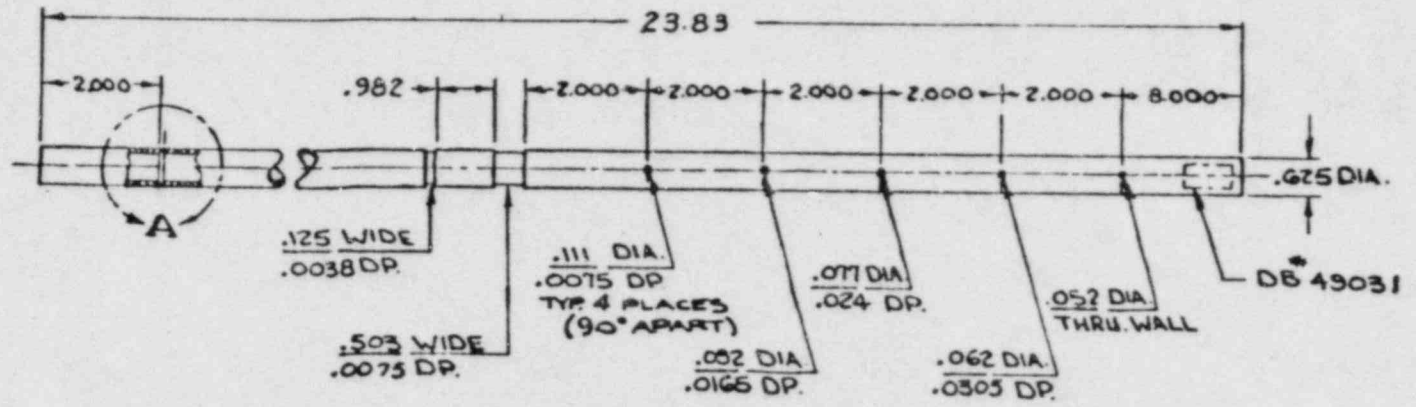
DETAIL @ A
SCALE: 2:1

AS BUILT

DRAWN RHR	CHKD RPS	EDDY CURRENT CALIBRATION	SCALE 1:2
DATE 11-8-82	APPD MTG	STD. ANO-1	1135953 B-0

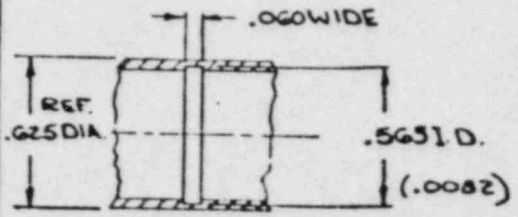
B 2565E11

THE BABCOCK & WILCOX COMPANY



INFORMATION REQUIRED

1 MATERIAL ASME SB163
.625 x .03025 WALL
2 SITE ANO 1
3 CUSTOMER ARK PWR & LIGHT CO.
4 CONTRACT 599-0541-10-05
5 DATA BASE NO 49031



DETAIL @ A
SCALE: 2:1

AS BUILT

	DRN RHB	CHK RPS	EDDY CURRENT CALIBRATION STD. ANO-1
	DATE 11-8-82	APP MSB	1135952 B-Q

A.P.&L. CURRENT RELIEF REQUESTS

Included in this section are letters directed to the NRC, requesting relief from certain ASME Section XI examination requirements, which for some reason cannot be examined due to structural interference, in-accessable or radiation limitations.

When a request for relief states an alternate NDE method to be used in lieu of the one required by Section XI, this alternate method shall be incorporated into the ISI Program Plan and Schedule.

ARKANSAS POWER & LIGHT COMPANY
POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4000

November 12, 1982

1CAN118203

Director of Nuclear Reactor Regulation
ATTN: Mr. J. F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SUBJECT: Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51
Inservice Inspection (ISI)
Relief Requests

Gentlemen:

This letter consolidates our responses to your letters dated February 23, 1982, (1CNA028205) and March 2, 1982, (1CNA038202). The stated purpose of your February 23, 1982, letter was to ensure that the ISI relief request information that the NRC is supplying its contractors for review is current and reflects the latest requirements for Arkansas Nuclear One - Unit 1 (ANO-1). The stated purpose of your March 2, 1982, letter was to solicit additional information related to the ISI program for ANO-1. It was felt that a consolidated response would be a more effective way to present the information requested and keep the overall ISI program in perspective.

THE FOLLOWING RESPONSES ARE SPECIFIC TO YOUR FEBRUARY 23, 1982, LETTER:

Item 1. Previous ISI Submittals

You listed five (5) previous submittals on our ISI program and stated that any earlier submittals would be considered obsolete. Accordingly, AP&L was asked to determine if there were any additional previous submittals that NRC should be reviewing. We concur that there are no earlier submittals that the NRC should be reviewing in order to bring current our ISI relief requests. The five (5) letters referenced in your February 23, 1982, letter and this present document (1CAN118203) will update all our requests for ISI relief to this point in time.

Item 2. Inspection Interval for ANO-1

You indicated that, although the proposed inspection interval for ANO-1 is April 19, 1978 to August 19, 1981, the ISI regulations would allow for an inspection interval of April 19, 1978 to December 19, 1984. In keeping with the provisions of the regulations governing ISI, we concur with the ANO-1 inspection interval being April 19, 1978 to December 19, 1984. Accordingly, we also concur with the ISI review being conducted against the 1974 edition of the ASME Boiler & Pressure Vessel Code, Section XI, up to and including the Summer 1975 Addenda.

Item 3. Additional Requests for ISI Relief

AP&L was also asked to submit any additional requests for ISI relief that the NRC should be considering. Our additional requests and related information are as follows:

Control Rod Drive Mechanism (CRDM) Welds

Discussion - Some of the welds on the CRDM's are not accessible as a result of the shroud covering. This means that AP&L would have to either remove the shroud to perform the required examinations or request relief. Deferral of the examinations to the end of the inspection interval is permitted by the Code; therefore, we believe it will be feasible to perform the CRDM examinations as required by the Code. However, it was felt appropriate at this time to state our intent to defer these examinations for documentation purposes.

Additional Relief Requests on Class I Components

(1) AP&L requests relief from the requirement to examine the clad patch areas of the reactor vessel, pressurizer, and steam generators as required by the 1974 Edition of Section XI (Items B1.13, B1.14, B2.9 and B3.8, Examination Categories B-I-1 and B-I-2).

Basis - Four reactor vessel closure head patches have been examined visually and with liquid penetrant. In addition, one steam generator clad patch has been visually examined. No evidence of clad degradation has been found. The accessible areas of the reactor vessel interior will be visually examined. This will cover a significant amount of cladding in critical areas of the primary pressure boundary to provide assurance that the general condition of the cladding has not deteriorated.

Proposed Alternate Examination - Visually inspect the accessible areas of the internal pressure boundary surfaces of the reactor vessel. This is consistent with the Summer 1978 Addenda to Section XI, 1977 Edition.

(2) AP&L requests relief from the requirement to do a volumetric examination of the reactor vessel support skirt weld as required by the 1974 Edition of Section XI (Item B1.12, Examination Category B-H).

Basis - The reactor vessel support skirt-to-vessel weld is impractical to examine volumetrically considering access for examination equipment, the necessity of insulation removal, personnel exposure to a 150-200 mR general area radiation field in the range of 1R on contact with insulation, and the amount of time required to obtain acceptable results. With insulation removed, close proximity radiation readings are expected to be considerably higher. This weld is not considered part of the Section XI, Class 1 (IWB) boundary under the rules of the 1980 Edition and therefore would be exempt from any examination requirements (See Figures 1 & 2).

Proposed Alternate Examination - None.

(3) AP&L requests to use Article 4 of Section V as referred to by Section XI of the 1977 Edition through Summer 1978 Addenda for ultrasonic examination of the reactor vessel, pressurizer, and steam generators in lieu of Appendix I of the 1974 Edition of Section XI.

Basis - An improved reactor vessel inspection program is being prepared for ANO-1 which is based on USNRC Regulatory Guide 1.150. This Guide refers to Article 4 of Section V, 1977 Edition through Summer 1978 Addenda for ultrasonic examination methods. Article 4 of Section V is equivalent to Appendix I and would provide an inspection program for the major components that is compatible and consistent with future Code-required ultrasonic examinations.

Proposed Alternate Examination - Article 4 of Section V, 1977 Edition, including Addenda through Summer 1978 will be used to establish the ultrasonic examination methods for the referenced components.

(4) AP&L requests relief from the surface examination requirements of the reactor vessel core flood nozzle-to-safe end and safe end-to-pipe welds as required by the 1974 Edition of Section XI (Items B1.6 and B4.1, Examination Category B-F).

Basis - The preparation includes removal of the refueling canal seal plate, shielding bricks and supports in the nozzle area, and insulation. Scaffolding would also have to be erected. Due to the elevation and proximity to the reactor vessel cavity, temporary shielding is not considered practical. The subject welds will be examined ultrasonically (full-volume) from the ID surface. The 1977 Edition of Section XI, IWB-3514.3 states, "Where indications on the outer surface of piping as detected by the surface examination method during an inservice examination exceed the allowable standards, the indication may be examined by the volumetric method. The acceptance of these indications shall be governed by the allowable indication standards for the volumetric examination method...".

Proposed Alternate Examination - Welds will be ultrasonically examined from the inside surface.

(5) AP&L requests to use the requirements of the 1977 Edition through Summer 1978 Addenda for examination of branch connection welds (Items B4.6 and B4.7, Examination Category B-J).

Basis - Because of weld and nozzle configurations for branch connections, complete volumetric examination required by the 1974 Edition of Section XI cannot be accomplished. This impracticality was recognized and revisions to the examination requirements were incorporated in the 1977 Edition, Summer 1978 Addenda. The examination requirements of the Summer 1978 Addenda provide adequate assurance that pipe branch connection welds and base metal remain structurally sound.

Proposed Alternate Examination - The examination methods and examination areas for all Class 1 piping branch connection welds will be chosen from Table IWB-2500-1 of the 1977 Edition of ASME Section XI with Addenda through the Summer 1978.

Proposed Alternate Examination - None.

Class 2 Components

(6) AP&L requests relief from volumetric examination of Class 2 piping welds in pipes with nominal wall thickness 0.5 inch and less (Items C2.1, C2.2, and C2.3, Examination Categories C-F and C-G).

Basis - Reliability for detection and characterization of flaws in thin-wall piping using the procedures of the 1975 Summer Addenda is poor. This is mainly due to resolution problems inherent with the ultrasonic technique, weld joint configurations, and material properties in the case of austenitic welds. In some cases, the Code required calibration reflector is over 50% of the pipe wall.

The 1977 and later Editions of Section XI (including Addenda) require a surface examination of Class 1 piping weldments with less than 4 inches nominal pipe diameter and of Class 2 piping weldments 0.5 inch and less in thickness. Non-volumetric examination is required for these welds.

A surface examination (magnetic particle or liquid penetrant) provides better sensitivity for detecting and sizing surface initiating flaws in this thickness range.

Proposed Alternate Examination - A surface examination will be performed on those welds with thicknesses 0.5 inch and less.

(7) AP&L requests to perform a surface examination in lieu of a volumetric examination where welds are inaccessible due to location of reinforcing collars (Item C2.3, Examination Category C-G).

Basis - The attachment of the reinforcement collar to nozzle penetrations makes the full penetration nozzle weld inaccessible for volumetric inspection.

~~Proposed Alternate Examination - A surface examination will be performed on the reinforcement collar welds. Only the reactor vessel will be hydro-tested.~~

Item 4. Continuing Review of ISI Relief Requests

Although this submittal, along with the five letters listed in your February 23, 1982, letter, represents the best information we have compiled at this point in time, we are continuing to review our ISI program. Based upon the results of our review, we may supplement this letter with additional data at a later date so that the NRC can provide any review contractors the most current information available for our facility.

THE FOLLOWING IS SPECIFIC TO YOUR MARCH 2, 1982, LETTER

Your verbatim requests for additional information are followed by our responses (Ref. 2 refers to AP&L's letter (1CAN127803) dated December 15, 1978):

1. General

"Under the change in regulation 10CFR50.55a effective November 1, 1979, your ISI program when finally approved, will cover the last 80 months of your current 10-year inspection interval, i.e., from April 19, 1978 to December 19, 1984. Does this result in any changes you wish to make in your relief requests? Do you require other ISI relief?"

AP&L Response

AP&L wishes to make no changes to our previous relief requests other than those contained in this letter. Additional ISI relief requests are included herein under Item 3 in this letter.

2. Extent of Volumetric Examinations (Question 1, Ref. 2)

"In this question you were asked whether full volumetric examinations can be performed in accordance with code reqirements for all Class 1 and 2 systems. Your response suggested that the plant has some partially inaccessible welds for which relief requests have not been prepared. For example, the use of Article I-5121 to record limited examination is discussed and the suggestion is made that "a supplemental... surface examination could be performed". Formal relief requests should be submitted on welds for which complete compliance with code requirements is not possible. The fraction of the weld which is inaccessible should be estimated as well as the total fraction of inaccessible welds or weld length in a given code item. As appropriate, a definite commitment should be made to perform any supplemental, alternative examinations."

AP&L Response

Included in our above response to your February 23, 1982, letter are all relief requests AP&L wishes to make at this time on inaccessible welds. In all cases, the total weld should be considered as "inaccessible" for the reasons noted. Our commitments to perform any necessary supplemental, alternative examinations were included under the headings, "Proposed Alternate Examination."

3. Exemption due to Paragraph IWC-1220 of Section XI (Question 6, Ref. 2)

"In your response you identified Class 2E systems on your P&ID's as being exempted from examination because of paragraph IWC-1220. The NRC does not accept the "chemistry control" provision of the S-75 addenda as a basis for exempting systems for inspection. You should develop an ISI program for the ECC, RHR, and CHR (containment heat removal) systems that complies with the intent of the S-79 addenda, in which the "chemistry control" provision has been deleted. A commitment to such a program with any necessary relief requests for reasons other than chemistry control, should be provided in response to this inquiry."

AP&L Response

The ISI program for ANO-1, which is presently committed to the 1974 edition of the ASME Boiler and Pressure Vessel Code, Section XI, up to and including the Summer 1975 Addenda, was established and put into effect prior to the acceptance of the Summer 1979 Addenda. Therefore, it is AP&L's position that the exemption from examination based on IWC-1220 is valid, that this exemption is allowable, and that it does not require NRC approval. This situation is analogous to the less than 4 inch Class 2 piping exemption.

AP&L will, however, pursue the development of an ISI program for the Emergency Core Cooling, Decay Heat Removal, and Containment Cooling Systems during the next ISI program upgrade as required by 10CFR50.55a.

4. Item B5.6, Volumetric Examination of Pump Casing Welds, and Others (Ref. 2)

"Your response to Question 2 indicates "that relief request on this item is to follow at a later date". Possible relief requests are also pending on: (a) Quesiton 6 - pressure testing of Class 2E systems, (b) Question 7 - pressure testing of service water system, and (c) Question 9 - supplementary information (resulting from March 1, 1979 outage) re. HPI and core flood line welds. Please provide as much of the missing information as possible."

AP&L Response

Except for those requests explicitly made or referenced in this letter, we are withdrawing our previous relief requests where the development of additional information was pending. Should the need arise for ISI relief at a future date, we will advise NRC with a specific request for relief at that time.

Sincerely,

John R. Marshall

John R. Marshall
Manager, Licensing

JRM:DET:sc

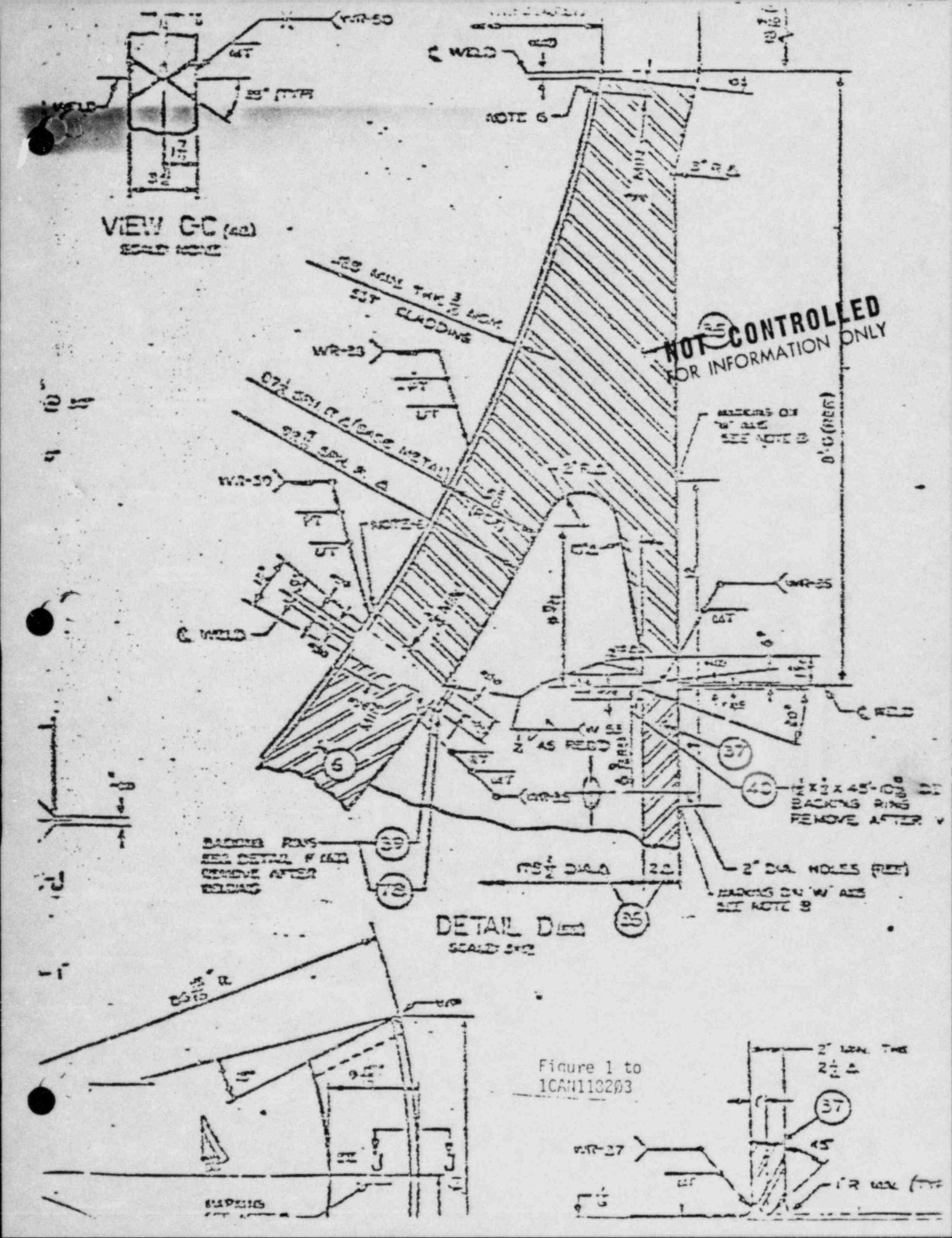
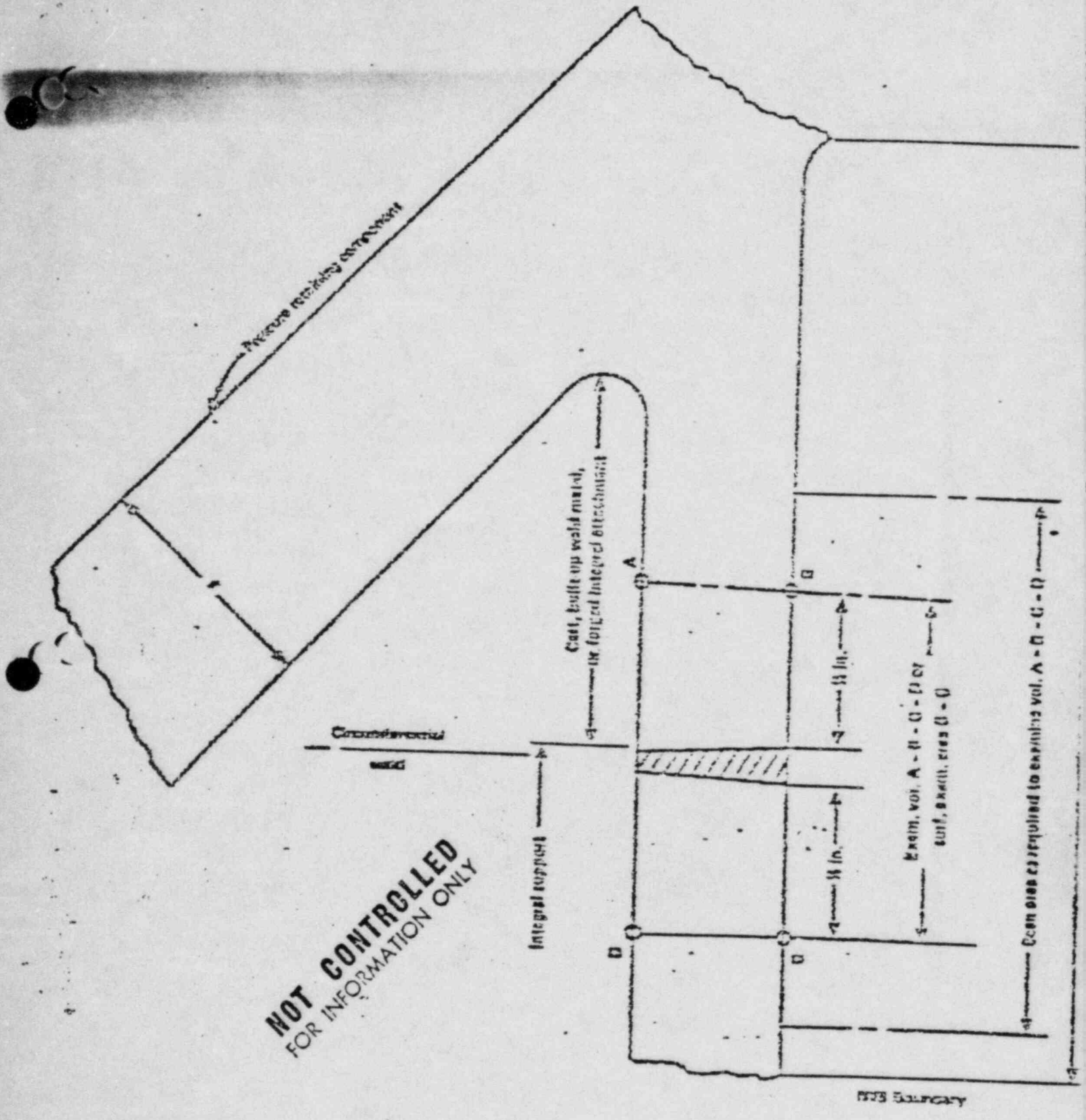


Figure 1 to
1CAN110203



NOTE: A volumetric examination from one side (B – C) of the circumferential weld may be substituted in place of the surface examination.

FIG. NB-2500-14 SUPPORT CIRCUMFERENTIAL WELD JOINT

Figure 2 to 1CAN118203

DOCUMENT PAGE PULLED

* OVERSIZE DUPLICATE DRAWINGS

SEE APERTURE CARDS

APERTURE CARD NO# 8308050271

AVAILABILITY X PDR ___ CF ___ HOLD ___

NUMBER OF PAGES. 1

ADDITIONAL APERTURE CARD NUMBERS BELOW.

_____ _____

_____ _____

_____ _____

_____ _____

"Guidelines"

The following information, along with the attached sheet (Form ENG-011) is a guide to how Section 2 of the ISI Technical Manual for Arkansas Nuclear One - Unit-1 is set up.

A - Designates the unit number this program covers.

B - Designates whether it is a "vessel pressure boundary", or piping pressure boundary".

C - Designates the zone number the examinations are to be performed in.

D - Designates the component being examined, such as "Reactor Vessel".

E - Designates the number of pages, which cover the examinations for the particular zone.

F - Designates the ASME class to which the examinations are performed to, such as class 1-IWB, class 2-IWC, etc.

G - Designates the unique number which is assigned to each examination, such as 01-001. This unique number is also shown on the isometric drawings after each zone.

H - Describes what is to be examined, such as "Shell to Flange" "Circumferential Seam" (or weld).

I - Designates the item number as specified on table 2500-1 of Section XI of the ASME Code, such as B1.30.1.

J - Designates the catagory of the weld to be examined per table 2500-1 of Section XI of the ASME code, such as BA.

K - Designates a one year interval, of which there are ten (10).

L - Designates a forty (40) month period, of which there are three (3). Each 40 month period covers three (3), one (1) year periods. An "x" placed in line with the exam number, parts examined, etc. and in the first year column designates which refueling outage the examination is to be performed. In this case the examination is to be performed during the 1R7 refueling outage.

M - Designates any examinations to be performed which for some reason was not done at its regularly scheduled time during the 120 month period.

N - Designates the percent of the weld to be examined.

O - Describes the method of NDE to be performed on the weld, such as MT-Magnet Particle, PT-Liquid Penetrant, UT-Ultrasonics, etc.

P - Designates the serial number of the UT calibration standard, which is to be used to calibrate the UT equipment prior to and after performing the examination.

Q - Designates, whether scaffolding is required to safely perform the examination.

R - Designates, whether insulation needs to be removed to allow examination of the weld or part.

S - Designates, whether weld preparation, such as buffing or grinding is required to perform the examination.

T - The remarks section is self explanatory and may provide pertinent information.

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-(A) (B)

ZONE-(C)

PAGE-(E)

CLASS-(F)

COMPONENT DESCRIPTION

(D)

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE				% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ			REMARKS
				1	2	3	4				S	I	WP	
(G)	(H)	(I)	(J)	(K) (L)			(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)

TEN (10) YEAR INSPECTION PLAN

Included in this section is the complete ten (10) year interval inspection program plan and schedule print-out of the required examinations for Arkansas Nuclear One, Unit One. This ten (10) year inspection plan is divided into five (5) refueling outages, with allowances for a sixth (6) refueling outage if necessary.

The examinations are divided into Class 1("B" item numbers with corresponding catagory numbers), Class 2 ("C" item numbers with corresponding catagory numbers), Class 3 ("D" item numbers with corresponding catagory numbers). For IWF Component Supports Class 1 ("B" item numbers with corresponding catagory numbers, when the support is intergally welded), and ("F" item and catagory numbers when the support is not intergally welded). Class 2 ("C" item numbers and corresponding catagory numbers, when the support is intergally welded) and ("F" items and catagory numbers when the support is not intergally welded). Class 3 ("F" item and catagory numbers).

Augmented inspections are those inspections which are not ASME Code required, but are being performed to satisfy Regulatory Guides, Technical Specifications, A.P.&L. commitments or for information only. Augmented inspections are designated by (X000000) examination numbers.

UNIT ONE

ZONE
TABLE OF CONTENTS

ZONE	DESCRIPTION	PIPE DIA.	AVG. WALL THICKNESS	CODE CLASS	ISI DWG. NO.
001	THREADED STUD HOLES IN VESSEL FLANGE	N/A	N/A	1	101 Sht.1
001	REACTOR VESSEL	N/A	5.90-12.00	1	101 Sht.2
001	INSTRUMENTATION NOZZLES	N/A	N/A	1	101 Sht.3
001	CORE SUPPORT ASSEMBLY	N/A	N/A	1	101 Sht.4
001	CORE BARREL ASSEMBLY	N/A	N/A	1	101 Sht.5
001	R.V. STUDS, NUTS & WASHERS	6.50	60.00	1	101 Sht.6
002	CRDM NOZZLES			1	102 Sht.1
002	R.V. CLOSURE HEAD	N/A	N/A	1	102 Sht.2
002	CRDM WELD LOCATIONS	4.20	.40-.60	1	102 Sht.3
003	1A STEAM GENERATOR E24A	N/A	8.50-9.00	1 & 2	103
004	1B STEAM GENERATOR F24B	N/A	8.50-9.00	1 & 2	104
005	PRESSURIZER VESSEL	N/A	3.50-7.00	1	105
006	REACTOR COOLANT - SUCTION	28" ID	2.70"	1	106
007	REACTOR COOLANT - DISCHARGE	28" ID	2.70"	1	107
008	REACTOR COOLANT - SUCTION	28" ID	2.70"	1	108
009	REACTOR COOLANT - DISCHARGE	28" ID	2.70"	1	109
010	REACTOR COOLANT - SUCTION	28" ID	2.70"	1	110
011	REACTOR COOLANT - DISCHARGE	28" ID	2.70"	1	111
012	REACTOR COOLANT - SUCTION	28" ID	2.70"	1	112
013	REACTOR COOLANT - DISCHARGE	28" ID	2.70"	1	113
014	REACTOR COOLANT - HOT LEG	36" ID	3.20"	1	114
015	REACTOR COOLANT - HOT LEG	36" ID	3.20"	1	115
016	PRESSURIZER SURGE	10" ID	1.0"	1	116

UNIT ONE

ZONE
TABLE OF CONTENTS

ZONE	DESCRIPTION	PIPE DIA.	AVG. WALL THICKNESS	CODE CLASS	ISI DWG. NO.
017	DECAY HEAT REMOVAL	12" ID	1.125"	1	117
018	PRESSURIZER SPRAY	2.5"	.375"	1	118
019	CORE FLOOD - A & B	14"	1.250"	1	119
020	H.P.I. TO A1 LOOP	2.5"	.375"	1	120
021	H.P.I. TO A2 LOOP	2.5" 3.0"	.375" .438"	1	121
022	H.P.I. TO B1 LOOP	2.0" 2.5" 3.0" 4.0"	.344" .375" .438 .438"	1	122
023	H.P.I. TO B2 LOOP	2.0" 2.5" 3.0" 4.0	.344" .375" .438" .438"	1	123
024	LETDOWN COOLER & DRAIN	2.5"	.375"	1	124
025	REACTOR COOLANT DRAINS	1.5"	ALL SOCKET WELD	1	125
026	FEEDWATER "A" LOOP	18" 14"	.938" .750	2	126
027	FEEDWATER "B" LOOP	18" 14"	.938" .750"	2	127
028	MAIN STEAM - "A" INSIDE CONTAINMENT	36" 26" 24"	1.055" .762" .969"	2	128
029	MAIN STEAM - "A" OUTSIDE CONTAINMENT	36" 8"	1.175" .406"	2	129
030	MAIN STEAM - "B" INSIDE CONTAINMENT	36" 26" 24"	1.055" .762" .969	2	130
031	MAIN STEAM - "B" OUTSIDE CONTAINMENT	36" 36" 8"	1.750" 1.055" .406"	2	131

UNIT ONE

ZONE
TABLE OF CONTENTS

ZONE	DESCRIPTION	PIPE DIA.	AVG. WALL THICKNESS	CODE CLASS	ISI DWG. NO.
032	MAKE UP PUMP SUCTION	6"	.134"	2	132
033	D.H. REMOVAL TO PUMPS	12"	.250"	2	133
034	L.P.I. PUMP "A" TO PENETRATION	10" 8" 6"	.165" .148" .134"	2	134
035	L.P.I. PUMP "B" TO PENETRATION	10" 8" 6"	.165" .148" .134"		135
036	L.P.I. PENETRATIONS TO CORE FLOOD	8" 12"	.812" 1.125"	2	136
037	LETDOWN COOLING HEAT EXCHANGER E29A	N/A	N/A	1	137
038	LETDOWN COOLING HEAT EXCHANGER E29B	N/A	N/A	1	138
039	CORE FLOOD TANK T2A	111"	2.5"	2	139
040	CORE FLOOD TANK T2B	111"	2.5"	2	140
041	DECAY HEAT REMOVAL COOLER E35A	53"	.5625"	2	141
042	DECAY HEAT REMOVAL COOLER E35B	53"	.5625"	2	142
043	1A-RCP & MOTOR FLYWHEEL	N/A	N/A	1	143
044	1B-RCP & MOTOR FLYWHEEL	N/A	N/A	1	144
045	1C-RCP & MOTOR FLYWHEEL	N/A	N/A	1	145
046	1D-RCP & MOTOR FLYWHEEL	N/A	N/A	1	146
047	PRESSURIZER SAFETY VALVE DISCHARGE	6"	.375"	2	147
048	PRESSURIZER SAFETY VALVE DISCHARGE	6"	.375"	2	148
049	SERVICE WATER LOOP 1A OUTSIDE CONTAINMENT	18" 10" 8"	.375" .365 .322	3	149

UNIT ONE

ZONE
TABLE OF CONTENTS

ZONE	DESCRIPTION	PIPE DIA.	AVG. WALL THICKNESS	CODE CLASS	ISI DWG. NO.
050	SERVICE WATER LOOP 1A INSIDE CONTAINMENT	18" 10" 8"	.375" .365" .322"	3	150
051	SERVICE WATER LCOP 2A OUTSIDE CONTAINMENT	18" 10" 8"	.375" .365" .322	3	151
052	SERVICE WATER LOOP 2A INSIDE CONTAINMENT	18" 10" 8"	.375" .365" .322"	3	152
053	SERVICE WATER LOOPS 1A & 2A COMMON RETURN IN CONTAINMENT	18" 10" 8"	.375" .365" .322"	3	153
054	SERVICE WATER LOOPS 1A & 2A COMMON RETURN OUTSIDE CONTAINMENT	18" 10" 8"	.375" .365" .322"	3	154
055	BUILDING SPRAY LOOP 1A INSIDE CONTAINMENT	10" 8" 6"	.250" .250" .250"	2	155
056	BUILDING SPRAY LOOP 1B INSIDE CONTAINMENT	10" 8" 6".	.250 .250" .250"	2	156
100	AUGMENTED INSPECTIONS	N/A	N/A	N/A	N/A

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VESSEL PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 01

COMPONENT DESCRIPTION

REACTOR PRESSURE VESSEL R1

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-001	Shell-To-Flange Circ. Seam	B1.30.1 BA	X			X	50	UT	40902	NA	NA	NA	Was WR-18-Remote Exam-From-I.D.
B1-002	Shell-To-Shell-Circ. Seam	B1.11.1 BA				X	100	UT	40900	NA	NA	NA	Was WR-18-Remote Exam-From-I.D.
B1-003	Shell-To-Shell-Belt-Region	B1.11.2 BA				X	100	UT	40900	NA	NA	NA	Was WR-1 Upper-Remote-Exam-From-I.D.
B1-004	Shell-To-Shell-Belt-Region	B1.11.3 BA				X	100	UT	40900	NA	NA	NA	Was WR-1 Lower-Remote-Exam-From-I.D.
B1-005	Shell-To-Shell-Belt-Region	B1.11.4 BA				X	100	UT	40900	NA	NA	NA	Was WR-34-Remote-Exam-From-I.D.
B1-006	Meridional Head-Weld Bottom	B1.22.1 BA				X	100	UT	40900	NA	NA	NA	Was WR-35-Remote-Exam-From-I.D.
B1-007	Longitudinal-Shell-Weld	B1.12.1 BA				X	100	UT	40900	NA	NA	NA	Was WR-2-Upper-Remote-Exam-From-I.D.
B1-008	Longitudinal-Shell-Weld	B1.12.2 BA				X	100	UT	40900	NA	NA	NA	Was WR-2-Upper-Remote-Exam-From-I.D.
B1-009	Longitudinal-Shell-Weld	B1.12.3 BA				X	100	UT	40900	NA	NA	NA	Was WR-2-Lower-Remote-Exam-From-I.D.
B1-010	Longitudinal-Shell-Weld	B1.12.4 BA				X	100	UT	40900	NA	NA	NA	Was WR-2-Lower-Remote-Exam-From-I.D.
B1-010A	Repair Welds Beltline Region	B1.50.1 BA				X	100	UT	40900	NA	NA	NA	Plate-Remote-Exam-From-I.D.
B1-011	Nozzle-To-Vessel-Weld	B3.90.1 BD	X			X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-011	Nozzle-Inside-Radius-Section	B3.100.1 BD	X			X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-012	Nozzle-To-Vessel-Weld	B3.90.2 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-012	Nozzle-Inside-Radius-Section	B3.100.2 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-013	Nozzle-To-Vessel-Weld	B3.90.3 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-013	Nozzle-Inside-Radius-Section	B3.100.3 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-014	Nozzle-To-Vessel-Weld	B3.90.4 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-014	Nozzle-Inside-Radius-Section	B3.100.4 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-015	Nozzle-To-Vessel-Weld	B3.90.5 BD	X			X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-015	Nozzle-Inside-Radius-Section	B3.100.5 BD	X			X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-016	Nozzle-To-Vessel-Weld	B3.90.6 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-016	Nozzle-Inside-Radius-Section	B3.100.6 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1 017	Nozzle-To-Vessel-Weld	B3.90.7 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-017	Nozzle-Inside-Radius-Section	B3.100.7 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-018	Nozzle-To-Vessel-Weld	B3.90.8 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-018	Nozzle-Inside-Radius-Section	B3.100.8 BD				X	100	UT	40902	NA	NA	NA	Remote-Exam-From-I.D.
B1-019	Nozzle To Pipe SE Circ Seam	B5.10.1 BF	X			X	100	UT	40812	NA	NA	NA	Remote-Exam-From-I.D. Hot Leg Cat. B-F
B1-020	Nozzle To Pipe SE Circ Seam	B5.10.2 BF				X	100	UT	40812	NA	NA	NA	Remote-Exam-From-I.D. Cold Leg Cat. B-F
B1-021	Nozzle To Pipe SE Circ Seam	B5.10.3 BF				X	100	UT	40812	NA	NA	NA	Remote-Exam-From-I.D. Cold Leg Cat. B-F
B1-022	Nozzle To Pipe SE Circ Seam	B5.10.4 BF	X			X	100	UT	40812	NA	NA	NA	Remote-Exam-From-I.D. Hot Leg Cat. B-F
B1-023	Nozzle To Pipe SE Circ Seam	B5.10.5 BF				X	100	UT	40812	NA	NA	NA	Remote-Exam-From-I.D. Cold Leg Cat. B-F
B1-024	Nozzle To Pipe SE Circ Seam	B5.10.6 BF				X	100	UT	40812	NA	NA	NA	Remote-Exam-From-I.D. Cold Leg Cat. B-F

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PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-01

VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 1

REACTOR PRESSURE VESSEL R1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
D1-025	Nozzle To Pipe SE Circ Seam	B5.10.7	BF			X		100	UT	40812	NA	NA	NA	Remote-Exam-From-I.D. Core Flood Cat. B-F
D1-026	Nozzle To Pipe SE Circ Seam	B5.10.8	BF			X		100	UT	40812	NA	NA	NA	Remote-Exam-From-I.D. Core Flood Cat. B-F
D1-027	Closure Head To Flange Circ	B1.40.1	BA	X		X		50	UT	40804	NA	NA	NA	
D1-028	Vessel Cladding	B1.14.1	BII			X		100	VT-1	NA	NA	NA	NA	
D1-029	Vessel Interior	B13.10.1	BN1			X		100	VT-3	NA	NA	NA	NA	
D1-030	Interior Att & Core Supp Struc	B13.30.1	BN1			X		100	VT-3	NA	NA	NA	NA	
D1-031	Core Support Structures	B13.30.2	BN1			X		100	VT-3	NA	NA	NA	NA	

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VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

REACTOR PRESSURE VESSEL R1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R1-F-001	Threads In Flange #1	B6.40.1 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-002	Threads In Flange #2	B6.40.2 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-003	Threads In Flange #3	B6.40.3 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-004	Threads In Flange #4	B6.40.4 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-005	Threads In Flange #5	B6.40.5 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-006	Threads In Flange #6	B6.40.6 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-007	Threads In Flange #7	B6.40.7 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-008	Threads In Flange #8	B6.40.8 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-009	Threads In Flange #9	B6.40.9 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-010	Threads In Flange #10	B6.40.10 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-011	Threads In Flange #11	B6.40.11 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-012	Threads In Flange #12	B6.40.12 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-013	Threads In Flange #13	B6.40.13 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-014	Threads In Flange #14	B6.40.14 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-015	Threads In Flange #15	B6.40.15 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-016	Threads In Flange #16	B6.40.16 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-017	Threads In Flange #17	B6.40.17 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-018	Threads In Flange #18	B6.40.18 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-019	Threads In Flange #19	B6.40.19 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-020	Threads In Flange #20	B6.40.20 BGI	X				100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-021	Threads In Flange #21	B6.40.21 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-022	Threads In Flange #22	B6.40.22 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-023	Threads In Flange #23	B6.40.23 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-024	Threads In Flange #24	B6.40.24 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-025	Threads In Flange #25	B6.40.25 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-026	Threads In Flange #26	B6.40.26 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-027	Threads In Flange #27	B6.40.27 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-028	Threads In Flange #28	B6.40.28 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-029	Threads In Flange #29	B6.40.29 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-030	Threads In Flange #30	B6.40.30 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-031	Threads In Flange #31	B6.40.31 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-032	Threads In Flange #32	B6.40.32 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
R1-F-033	Threads In Flange #33	B6.40.33 BGI		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole

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VESSEL PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS- 1

REACTOR PRESSURE VESSEL R1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
01-E-034	Threads In Flange #34	B6.40.34 BG1		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-035	Threads In Flange #35	B6.40.35 BG1		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-036	Threads In Flange #36	B6.40.36 BG1		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-037	Threads In Flange #37	B6.40.37 BG1		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-038	Threads In Flange #38	B6.40.38 BG1		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-039	Threads In Flange #39	B6.40.39 BG1		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-040	Threads In Flange #40	B6.40.40 BG1		X			100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-041	Threads In Flange #41	B6.40.41 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-042	Threads In Flange #42	B6.40.42 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-043	Threads In Flange #43	B6.40.43 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-044	Threads In Flange #44	B6.40.44 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-045	Threads In Flange #45	B6.40.45 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-046	Threads In Flange #46	B6.40.46 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-047	Threads In Flange #47	B6.40.47 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-048	Threads In Flange #48	B6.40.48 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-049	Threads In Flange #49	B6.40.49 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-050	Threads In Flange #50	B6.40.50 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-051	Threads In Flange #51	B6.40.51 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-052	Threads In Flange #52	B6.40.52 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-053	Threads In Flange #53	B6.40.53 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-054	Threads In Flange #54	B6.40.54 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-055	Threads In Flange #55	B6.40.55 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-056	Threads In Flange #56	B6.40.56 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-057	Threads In Flange #57	B6.40.57 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-058	Threads In Flange #58	B6.40.58 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-059	Threads In Flange #59	B6.40.59 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-E-060	Threads In Flange #60	B6.40.60 BG1			X		100	UT	40902	NA	NA	X	1" Annular Surface Around Stud Hole
01-I-001	Instrumentation Nozzle #1	B4.13.1 BE					100	VT-2	NA				
01-I-002	Instrumentation Nozzle #2	B4.13.2 BE					100	VT-2	NA				
01-I-003	Instrumentation Nozzle #3	B4.13.3 BE					100	VT-2	NA				
01-I-004	Instrumentation Nozzle #4	B4.13.4 BE					100	VT-2	NA				
01-I-005	Instrumentation Nozzle #5	B4.13.5 BE					100	VT-2	NA				
01-I-006	Instrumentation Nozzle #6	B4.13.6 BE					100	VT-2	NA				

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VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

REACTOR PRESSURE VESSEL R1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-I-007	Instrumentation Nozzle #7	B4.13.7 BE					100	VT-2	NA				
B1-I-008	Instrumentation Nozzle #8	B4.13.8 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test Or Hydro
B1-I-009	Instrumentation Nozzle #9	B4.13.9 BE					100	VT-2	NA				
B1-I-010	Instrumentation Nozzle #10	B4.13.10 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test Or Hydro
B1-I-011	Instrumentation Nozzle #11	B4.13.11 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test Or Hydro
B1-I-012	Instrumentation Nozzle #12	B4.13.12 BE					100	VT-2	NA				
B1-I-013	Instrumentation Nozzle #13	B4.13.13 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test Or Hydro
B1-I-014	Instrumentation Nozzle #14	B4.13.14 BE					100	VT-2	NA				
B1-I-015	Instrumentation Nozzle #15	B4.13.15 BE					100	VT-2	NA				
B1-I-016	Instrumentation Nozzle #16	B4.13.16 BE					100	VT-2	NA				
B1-I-017	Instrumentation Nozzle #17	B4.13.17 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test Or Hydro
B1-I-018	Instrumentation Nozzle #18	B4.13.18 BE					100	VT-2	NA				
B1-I-019	Instrumentation Nozzle #19	B4.13.19 BE					100	VT-2	NA				
B1-I-020	Instrumentation Nozzle #20	B4.13.20 BE					100	VT-2	NA				
B1-I-021	Instrumentation Nozzle #21	B4.13.21 BE					100	VT-2	NA				
B1-I-022	Instrumentation Nozzle #22	B4.13.22 BE					100	VT-2	NA				
B1-I-023	Instrumentation Nozzle #23	B4.13.23 BE		X			100	VT-2	NA	NA	NA	NA	During System Leakage Test Or Hydro
B1-I-024	Instrumentation Nozzle #24	B4.13.24 BE					100	VT-2	NA				
B1-I-025	Instrumentation Nozzle #25	B4.13.25 BE		X			100	VT-2	NA	NA	NA	NA	During System Leakage Test Or Hydro
B1-I-026	Instrumentation Nozzle #26	B4.13.26 BE		X			100	VT-2	NA	NA	NA	NA	During System Leakage Test Or Hydro
B1-I-027	Instrumentation Nozzle #27	B4.13.27 BE					100	VT-2	NA				
B1-I-028	Instrumentation Nozzle #28	B4.13.28 BE					100	VT-2	NA				
B1-I-029	Instrumentation Nozzle #29	B4.13.29 BE					100	VT-2	NA				
B1-I-030	Instrumentation Nozzle #30	B4.13.30 BE		X			100	VT-2	NA	NA	NA	NA	During System Leakage Test Or Hydro
B1-I-031	Instrumentation Nozzle #31	B4.13.31 BE					100	VT-2	NA				
B1-I-032	Instrumentation Nozzle #32	B4.13.32 BE					100	VT-2	NA				
B1-I-033	Instrumentation Nozzle #33	B4.13.33 BE					100	VT-2	NA				
B1-I-034	Instrumentation Nozzle #34	B4.13.34 BE					100	VT-2	NA				
B1-I-035	Instrumentation Nozzle #35	B4.13.35 BE					100	VT-2	NA				
B1-I-036	Instrumentation Nozzle #36	B4.13.36 BE					100	VT-2	NA				
B1-I-037	Instrumentation Nozzle #37	B4.13.37 BE					100	VT-2	NA				
B1-I-038	Instrumentation Nozzle #38	B4.13.38 BE					100	VT-2	NA				
B1-I-039	Instrumentation Nozzle #39	B4.13.39 BE					100	VT-2	NA				

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VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 1

REACTOR PRESSURE VESSEL R1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-I-040	Instrumentation Nozzle #40	B4.13.40	BE					100	VT-2	NA				
B1-I-041	Instrumentation Nozzle #41	B4.13.41	BE					100	VT-2	NA				
B1-I-042	Instrumentation Nozzle #42	B4.13.42	BE					100	VT-2	NA				
B1-I-043	Instrumentation Nozzle #43	B4.13.43	BE					100	VT-2	NA				
B1-I-044	Instrumentation Nozzle #44	B4.13.44	BE			X		100	VT-2	NA	NA	NA	NA	During System Leakage Test
B1-I-045	Instrumentation Nozzle #45	B4.13.45	BE					100	VT-2	NA				
B1-I-046	Instrumentation Nozzle #46	B4.13.46	BE			X		100	VT-2	NA	NA	NA	NA	During System Leakage Test
B1-I-047	Instrumentation Nozzle #47	B4.13.47	BE					100	VT-2	NA				
B1-I-048	Instrumentation Nozzle #48	B4.13.48	BE			X		100	VT-2	NA	NA	NA	NA	During System Leakage Test
B1-I-049	Instrumentation Nozzle #49	B4.13.49	BE					100	VT-2	NA				
B1-I-050	Instrumentation Nozzle #50	B4.13.50	BE			X		100	VT-2	NA	NA	NA	NA	During System Leakage Test
B1-I-051	Instrumentation Nozzle #51	B4.13.51	BE					100	VT-2	NA				
B1-I-052	Instrumentation Nozzle #52	B4.13.52	BE					100	VT-2	NA				
B1-N-001	Closure-Head-Nut #1	B6.10.1	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-002	Closure-Head-Nut #2	B6.10.2	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-003	Closure-Head-Nut #3	B6.10.3	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-004	Closure-Head-Nut #4	B6.10.4	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-005	Closure-Head-Nut #5	B6.10.5	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-006	Closure-Head-Nut #6	B6.10.6	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-007	Closure-Head-Nut #7	B6.10.7	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-008	Closure-Head-Nut #8	B6.10.8	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-009	Closure-Head-Nut #9	B6.10.9	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-010	Closure-Head-Nut #10	B6.10.10	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-011	Closure-Head-Nut #11	B6.10.11	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-012	Closure-Head-Nut #12	B6.10.12	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-013	Closure-Head-Nut #13	B6.10.13	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-014	Closure-Head-Nut #14	B6.10.14	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-015	Closure-Head-Nut #15	B6.10.15	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-016	Closure-Head-Nut #16	B6.10.16	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-017	Closure-Head-Nut #17	B6.10.17	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-018	Closure-Head-Nut #18	B6.10.18	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-019	Closure-Head-Nut #19	B6.10.19	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-020	Closure-Head-Nut #20	B6.10.20	BG1	X				100	MT	NA	NA	NA	X	When Removed-Clean

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VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

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REACTOR PRESSURE VESSEL R1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
01-N-021	Closure-Head-Nut #21	B6.10.21 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-022	Closure-Head-Nut #22	B6.10.22 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-023	Closure-Head-Nut #23	B6.10.23 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-024	Closure-Head-Nut #24	B6.10.24 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-025	Closure-Head-Nut #25	B6.10.25 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-026	Closure-Head-Nut #26	B6.10.26 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-027	Closure-Head-Nut #27	B6.10.27 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-028	Closure-Head-Nut #28	B6.10.28 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-029	Closure-Head-Nut #29	B6.10.29 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-030	Closure-Head-Nut #30	B6.10.30 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-031	Closure-Head-Nut #31	B6.10.31 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-032	Closure-Head-Nut #32	B6.10.32 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-033	Closure-Head-Nut #33	B6.10.33 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-034	Closure-Head-Nut #34	B6.10.34 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-035	Closure-Head-Nut #35	B6.10.35 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-036	Closure-Head-Nut #36	B6.10.36 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-037	Closure-Head-Nut #37	B6.10.37 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-038	Closure-Head-Nut #38	B6.10.38 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-039	Closure-Head-Nut #39	B6.10.39 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-040	Closure-Head-Nut #40	B6.10.40 BG1		X			100	MT	NA	NA	NA	X	When Removed-Clean
01-N-041	Closure-Head-Nut #41	B6.10.41 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-042	Closure-Head-Nut #42	B6.10.42 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-043	Closure-Head-Nut #43	B6.10.43 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-044	Closure-Head Nut #44	B6.10.44 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-045	Closure-Head Nut #45	B6.10.45 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-046	Closure-Head Nut #46	B6.10.46 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-047	Closure-Head Nut #47	B6.10.47 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-048	Closure-Head Nut #48	B6.10.48 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-049	Closure-Head Nut #49	B6.10.49 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-050	Closure-Head Nut #50	B6.10.50 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-051	Closure-Head Nut #51	B6.10.51 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-052	Closure-Head Nut #52	B6.10.52 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
01-N-053	Closure-Head Nut #53	B6.10.53 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean

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REACTOR PRESSURE VESSEL R1

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EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-N-054	Closure-Head Nut #54	B6.10.54 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-055	Closure-Head Nut #55	B6.10.55 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-056	Closure-Head Nut #56	B6.10.56 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-057	Closure-Head Nut #57	B6.10.57 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-058	Closure-Head Nut #58	B6.10.58 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-059	Closure-Head Nut #59	B6.10.59 BG1			X		100	MT	NA	NA	NA	X	When Removed-Clean
B1-N-060	Closure-Head Nut #60	B6.10.60 BG1			X		100	MT	NA				When Removed-Clean
B1-P-053	Pressure Retaining Boundry	B15.10 BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-P-054	Pressure Retaining Boundry	B15.11 BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-S-001	Closure Stud #1	B6.20.1 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-001	Closure Stud #1	B6.30.1 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-002	Closure Stud #2	B6.20.2 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-002	Closure Stud #2	B6.30.2 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-003	Closure Stud #3	B6.20.3 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-003	Closure Stud #3	B6.30.3 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-004	Closure Stud #4	B6.20.4 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-004	Closure Stud #4	B6.30.4 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-005	Closure Stud #5	B6.20.5 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-005	Closure Stud #5	B6.30.5 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-006	Closure Stud #6	B6.20.6 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-006	Closure Stud #6	B6.30.6 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-007	Closure Stud #7	B6.20.7 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-007	Closure Stud #7	B6.30.7 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-008	Closure Stud #8	B6.20.8 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-008	Closure Stud #8	B6.30.8 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-009	Closure Stud #9	B6.20.9 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-009	Closure Stud #9	B6.30.9 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-010	Closure Stud #10	B6.20.10 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-010	Closure Stud #10	B6.30.10 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-011	Closure Stud #11	B6.20.11 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-011	Closure Stud #11	B6.30.11 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
B1-S-012	Closure Stud #12	B6.20.12 BG1	X				100	UT	40855	NA	NA	NA	Inplace
B1-S-012	Closure Stud #12	B6.30.12 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean

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CLASS- 1

REACTOR PRESSURE VESSEL R1

EXAM NUMBER	PARTS EXAMINED	ITEM CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
D1-S-013	Closure Stud #13	B6.20.13 BG1	X				100	UT	40855	NA	NA	NA	Inplace
D1-S-013	Closure Stud #13	B6.30.13 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-014	Closure Stud #14	B6.20.14 BG1	X				100	UT	40855	NA	NA	NA	Inplace
D1-S-014	Closure Stud #14	B6.30.14 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-015	Closure Stud #15	B6.20.15 BG1	X				100	UT	40855	NA	NA	NA	Inplace
D1-S-015	Closure Stud #15	B6.30.15 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-016	Closure Stud #16	B6.20.16 BG1	X				100	UT	40855	NA	NA	NA	Inplace
D1-S-016	Closure Stud #16	B6.30.16 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-017	Closure Stud #17	B6.20.17 BG1	X				100	UT	40855	NA	NA	NA	Inplace
D1-S-017	Closure Stud #17	B6.30.17 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-018	Closure Stud #18	B6.20.18 BG1	X				100	UT	40855	NA	NA	NA	Inplace
D1-S-018	Closure Stud #18	B6.30.18 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-019	Closure Stud #19	B6.20.19 BG1	X				100	UT	40855	NA	NA	NA	Inplace
D1-S-019	Closure Stud #19	B6.30.19 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-020	Closure Stud #20	B6.20.20 BG1	X				100	UT	40855	NA	NA	NA	Inplace
D1-S-020	Closure Stud #20	B6.30.20 BG1	X				100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-021	Closure Stud #21	B6.20.21 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-021	Closure Stud #21	B6.30.21 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-022	Closure Stud #22	B6.20.22 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-022	Closure Stud #22	B6.30.22 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-023	Closure Stud #23	B6.20.23 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-023	Closure Stud #23	B6.30.23 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-024	Closure Stud #24	B6.20.24 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-024	Closure Stud #24	B6.30.24 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-025	Closure Stud #25	B6.20.25 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-025	Closure Stud #25	B6.30.25 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-026	Closure Stud #26	B6.20.26 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-026	Closure Stud #26	B6.30.26 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-027	Closure Stud #27	B6.20.27 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-027	Closure Stud #27	B6.30.27 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-028	Closure Stud #28	B6.20.28 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-028	Closure Stud #28	B6.30.28 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-029	Closure Stud #29	B6.20.29 BG1		X			100	UT	40855	NA	NA	NA	Inplace

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VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 1

REACTOR PRESSURE VESSEL R1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
D1-S-029	Closure Stud #29	B6.30.29 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-030	Closure Stud #30	B6.20.30 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-030	Closure Stud #30	B6.30.30 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-031	Closure Stud #31	B6.20.31 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-031	Closure Stud #31	B6.30.31 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-032	Closure Stud #32	B6.20.32 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-032	Closure Stud #32	B6.30.32 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-033	Closure Stud #33	B6.20.33 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-033	Closure Stud #33	B6.30.33 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-034	Closure Stud #34	B6.20.34 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-034	Closure Stud #34	B6.30.34 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-035	Closure Stud #35	B6.20.35 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-035	Closure Stud #35	B6.30.35 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-036	Closure Stud #36	B6.20.36 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-036	Closure Stud #36	B6.30.36 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-037	Closure Stud #37	B6.20.37 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-037	Closure Stud #37	B6.30.37 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-038	Closure Stud #38	B6.20.38 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-038	Closure Stud #38	B6.30.38 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-039	Closure Stud #39	B6.20.39 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-039	Closure Stud #39	B6.30.39 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-040	Closure Stud #40	B6.20.40 BG1		X			100	UT	40855	NA	NA	NA	Inplace
D1-S-040	Closure Stud #40	B6.30.40 BG1		X			100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-041	Closure Stud #41	B6.20.41 BG1			X		100	UT	40855	NA	NA	NA	Inplace
D1-S-041	Closure Stud #41	B6.30.41 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-042	Closure Stud #42	B6.20.42 BG1			X		100	UT	40855	NA	NA	NA	Inplace
D1-S-042	Closure Stud #42	B6.30.42 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-043	Closure Stud #43	B6.20.43 BG1			X		100	UT	40855	NA	NA	NA	Inplace
D1-S-043	Closure Stud #43	B6.30.43 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-044	Closure Stud #44	B6.20.44 BG1			X		100	UT	40855	NA	NA	NA	Inplace
D1-S-044	Closure Stud #44	B6.30.44 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
D1-S-045	Closure Stud #45	B6.20.45 BG1			X		100	UT	40855	NA	NA	NA	Inplace
D1-S-045	Closure Stud #45	B6.30.45 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean

FORM ENG-011

ANO-UNIT-ONE

VESSEL PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-01

COMPONENT DESCRIPTION

REACTOR PRESSURE VESSEL R1

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R1-S-046	Closure Stud #46	B6.20.46 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-046	Closure Stud #46	B6.30.46 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-047	Closure Stud #47	B6.20.47 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-047	Closure Stud #47	B6.30.47 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-048	Closure Stud #48	B6.20.48 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-048	Closure Stud #48	B6.30.48 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-049	Closure Stud #49	B6.20.49 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-049	Closure Stud #49	B6.30.49 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-050	Closure Stud #50	B6.20.50 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-050	Closure Stud #50	B6.30.50 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-051	Closure Stud #51	B6.20.51 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-051	Closure Stud #51	B6.30.51 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-052	Closure Stud #52	B6.20.52 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-052	Closure Stud #52	B6.30.52 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-053	Closure Stud #53	B6.20.53 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-053	Closure Stud #53	B6.30.53 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-054	Closure Stud #54	B6.20.54 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-054	Closure Stud #54	B6.30.54 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-055	Closure Stud #55	B6.20.55 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-055	Closure Stud #55	B6.30.55 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-056	Closure Stud #56	B6.20.56 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-056	Closure Stud #56	B6.30.56 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-057	Closure Stud #57	B6.20.57 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-057	Closure Stud #57	B6.30.57 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-058	Closure Stud #58	B6.20.58 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-058	Closure Stud #58	B6.30.58 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-059	Closure Stud #59	B6.20.59 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-059	Closure Stud #59	B6.30.59 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-S-060	Closure Stud #60	B6.20.60 BG1			X		100	UT	40855	NA	NA	NA	Inplace
R1-S-060	Closure Stud #60	B6.30.60 BG1			X		100	UT MT	40855	NA	NA	X	When Removed-Clean
R1-W-001	Closure Washer Bushing #1	B6.50.1 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-002	Closure Washer Bushing #2	B6.50.2 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-003	Closure Washer Bushing #3	B6.50.3 BG1	X				100	VT-1	NA	NA	NA	X	Inplace or Removed

FORM ENG-011

ANO-UNIT-ONE

VESSEL PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 01

COMPONENT DESCRIPTION

REACTOR PRESSURE VESSEL R1

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-W-004	Closure Washer Bushing #4	B6.50.4 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-005	Closure Washer Bushing #5	B6.50.5 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-006	Closure Washer Bushing #6	B6.50.6 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-007	Closure Washer Bushing #7	B6.50.7 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-008	Closure Washer Bushing #8	B6.50.8 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-009	Closure Washer Bushing #9	B6.50.9 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-010	Closure Washer Bushing #10	B6.50.10 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-011	Closure Washer Bushing #11	B6.50.11 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-012	Closure Washer Bushing #12	B6.50.12 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-013	Closure Washer Bushing #13	B6.50.13 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-014	Closure Washer Bushing #14	B6.50.14 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-015	Closure Washer Bushing #15	B6.50.15 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-016	Closure Washer Bushing #16	B6.50.16 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-017	Closure Washer Bushing #17	B6.50.17 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-018	Closure Washer Bushing #18	B6.50.18 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-019	Closure Washer Bushing #19	B6.50.19 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-020	Closure Washer Bushing #20	B6.50.20 BG1	X				100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-021	Closure Washer Bushing #21	B6.50.21 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-022	Closure Washer Bushing #22	B6.50.22 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-023	Closure Washer Bushing #23	B6.50.23 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-024	Closure Washer Bushing #24	B6.50.24 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-025	Closure Washer Bushing #25	B6.50.25 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-026	Closure Washer Bushing #26	B6.50.26 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-027	Closure Washer Bushing #27	B6.50.27 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-028	Closure Washer Bushing #28	B6.50.28 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-029	Closure Washer Bushing #29	B6.50.29 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-030	Closure Washer Bushing #30	B6.50.30 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-031	Closure Washer Bushing #31	B6.50.31 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-032	Closure Washer Bushing #32	B6.50.32 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-033	Closure Washer Bushing #33	B6.50.33 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-034	Closure Washer Bushing #34	B6.50.34 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-035	Closure Washer Bushing #35	B6.50.35 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
B1-W-036	Closure Washer Bushing #36	B6.50.36 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE- 01

PAGE- 13 of 13

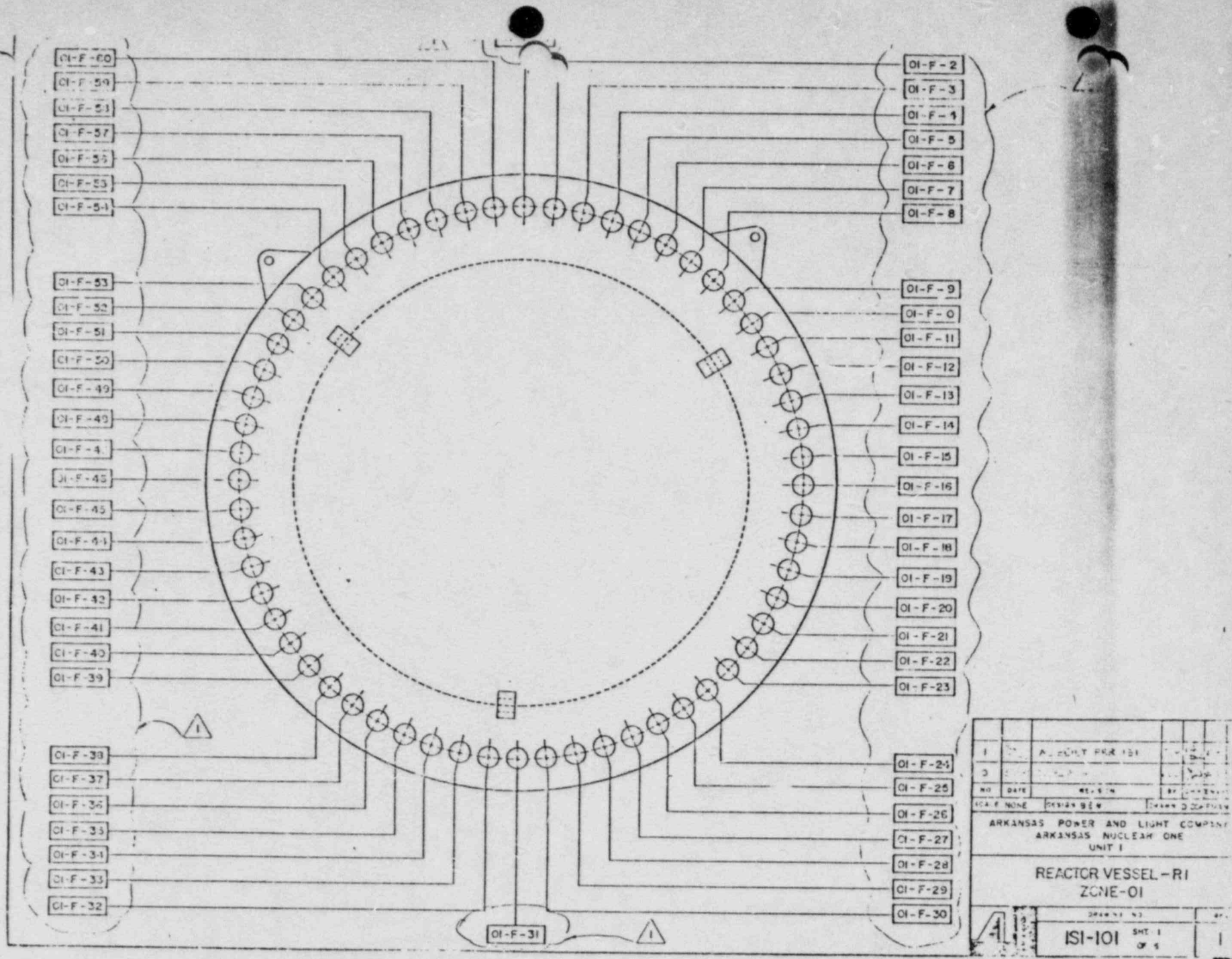
VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 1

REACTOR PRESSURE VESSEL R1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R1-W-037	Closure Washer Bushing #37	B6.50.37 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-038	Closure Washer Bushing #38	B6.50.38 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-039	Closure Washer Bushing #39	B6.50.39 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-040	Closure Washer Bushing #40	B6.50.40 BG1		X			100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-041	Closure Washer Bushing #41	B6.50.41 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-042	Closure Washer Bushing #42	B6.50.42 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-043	Closure Washer Bushing #43	B6.50.43 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-044	Closure Washer Bushing #44	B6.50.44 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-045	Closure Washer Bushing #45	B6.50.45 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-046	Closure Washer Bushing #46	B6.50.46 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-047	Closure Washer Bushing #47	B6.50.47 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-048	Closure Washer Bushing #48	B6.50.48 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-049	Closure Washer Bushing #49	B6.50.49 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-050	Closure Washer Bushing #50	B6.50.50 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-051	Closure Washer Bushing #51	B6.50.51 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-052	Closure Washer Bushing #52	B6.50.52 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-053	Closure Washer Bushing #53	B6.50.53 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-054	Closure Washer Bushing #54	B6.50.54 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-055	Closure Washer Bushing #55	B6.50.55 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-056	Closure Washer Bushing #56	B6.50.56 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-057	Closure Washer Bushing #57	B6.50.57 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-058	Closure Washer Bushing #58	B6.50.58 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-059	Closure Washer Bushing #59	B6.50.59 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed
R1-W-060	Closure Washer Bushing #60	B6.50.60 BG1			X		100	VT-1	NA	NA	NA	X	Inplace Or Removed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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
REACTOR VESSEL - RI
ZONE-01
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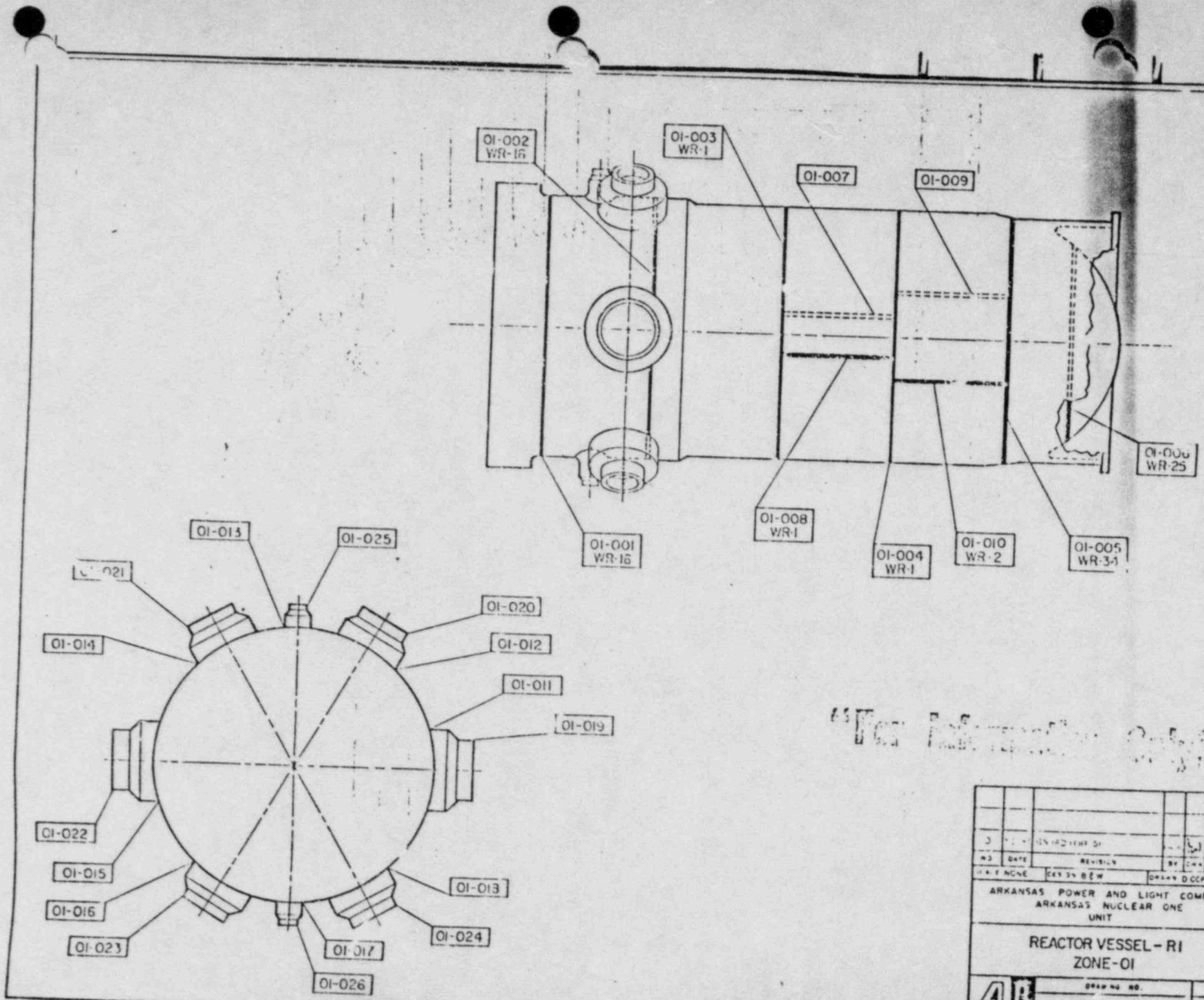

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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT

REACTOR VESSEL - RI
ZONE - 01

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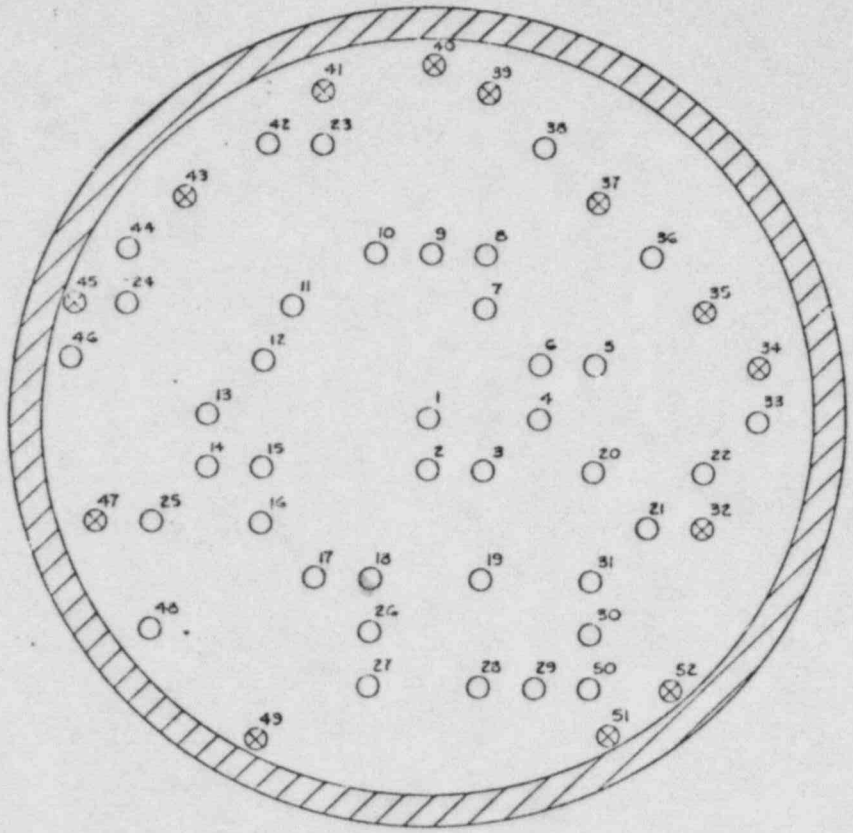

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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

REACTOR VESSEL
INSTRUMENTATION NOZZLES
ZONE-01

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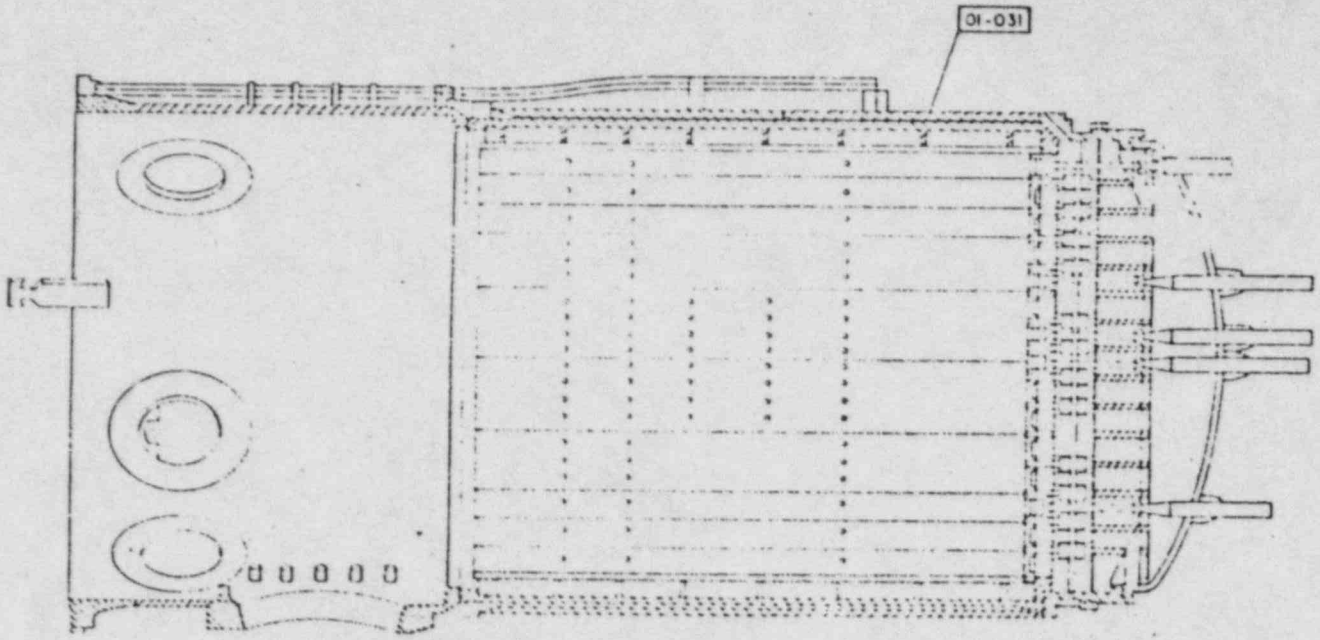

CORE SUPPORT ASSEMBLY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

CORE SUPPORT ASSY - RI
ZONE-01

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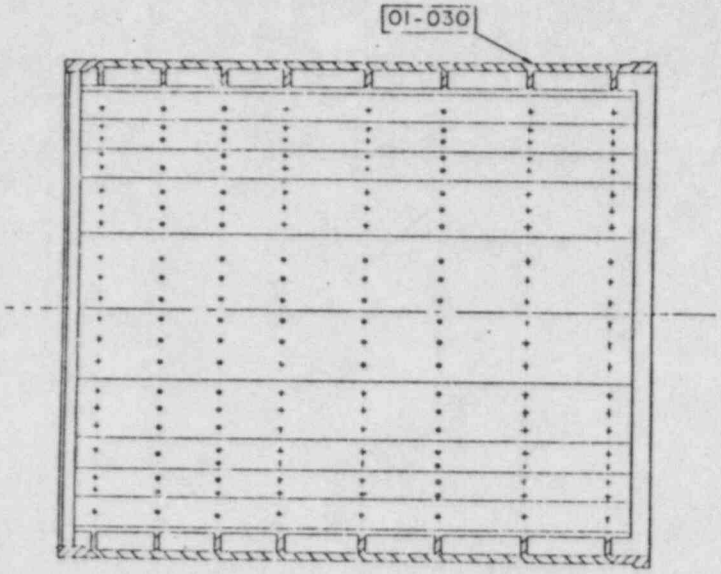

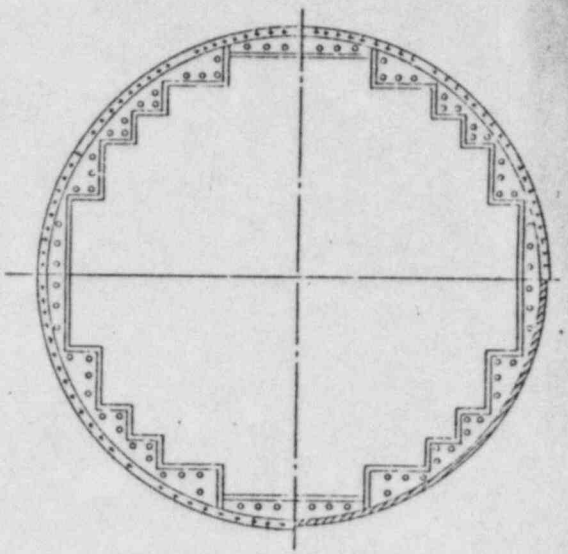

CORE BARREL ASSY.

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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT

REACTOR VESSEL - RI
ZONE-01

DRAWING NO.

ISI-101

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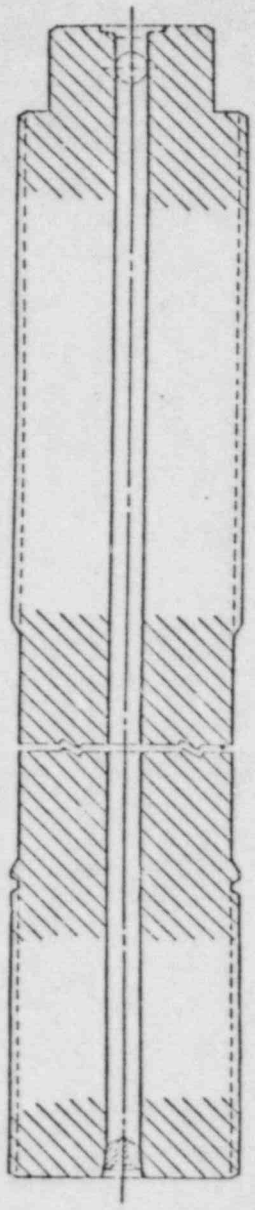

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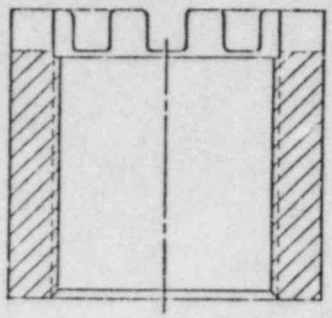

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SCALE NONE | DESIGN CE | DRAWN & SP CK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

I.V STUD, NUT, & WASHER

DRAWING NO
ISI-101
SH 6 OF 6

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-02

VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

REACTOR PRESSURE VESSEL R1 CLOSURE HEAD

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
D2-001	Head To Flange Circ. Seam	B1.40.1 BA	X				100	MT	NA				Between 01-S-001 and 01-S-020
D2-001	Head To Flange Circ. Seam	B1.40.1 BA	X				100	UT	40804				Between 01-S-001 and 01-S-020
D2-002	Head To Flange Circ. Seam	B1.40.2 BA		X			100	MT	NA				Between 01-S-020 and 01-S-040
D2-002	Head To Flange Circ. Seam	B1.40.2 BA		X			100	UT	40804				Between 01-S-020 and 01-S-040
D2-003	Head To Flange Circ. Seam	B1.40.3 BA			X		100	MT	NA				Between 01-S-040 And 01-S-060
D2-003	Head To Flange Circ. Seam	B1.40.3 BA			X		100	UT	40804				Between 01-S-040 And 01-S-060

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ANO-UNIT-ONE

VESSEL PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 02

COMPONENT DESCRIPTION

REACTOR PRESSURE VESSEL R1 CLOSURE HEAD

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
02-B-001	CRDM Mechanism Bolts	B7.80.1	BG2	X				100	VT-1	NA	NA	NA	X	8-Bolts Of CRDM #51 Clean-Disassembled
02-B-002	CRDM Mechanism Bolts	B7.80.2	BG2		X			100	VT-1	NA	NA	NA	X	8-Bolts Of CRDM #56 Clean-Disassembled
02-B-003	CRDM Mechanism Bolts	B7.80.3	BG2			X		100	VT-1	NA	NA	NA	X	8-Bolts Of CRDM #58 Clean-Disassembled
02-C-001	CRDM Housing Butt Weld #46	B14.10.1	BO					100	UT	40817				
02-C-002	CRDM Housing Butt Weld #47	B14.10.2	BO					100	UT	40817				
02-C-003	CRDM Housing Butt Weld #48	B14.10.3	BO	X				100	UT	40817	NA	NA	X	Chemical Etch Weld
02-C-004	CRDM Housing Butt Weld #49	B14.10.4	BO					100	UT	40817				
02-C-005	CRDM Housing Butt Weld #50	B14.10.5	BO					100	UT	40817				
02-C-006	CRDM Housing Butt Weld #51	B14.10.6	BO					100	UT	40817				
02-C-007	CRDM Housing Butt Weld #52	B14.10.7	BO					100	UT	40817				
02-C-008	CRDM Housing Butt Weld #53	B14.10.8	BO					100	UT	40817				
02-C-009	CRDM Housing Butt Weld #54	B14.10.9	BO					100	UT	40817				
02-C-010	CRDM Housing Butt Weld #55	B14.10.10	BO					100	UT	40817				
02-C-011	CRDM Housing Butt Weld #56	B14.10.11	BO		X			100	UT	40817	NA	NA	X	Chemical Etch Weld
02-C-012	CRDM Housing Butt Weld #57	B14.10.12	BO					100	UT	40817				
02-C-013	CRDM Housing Butt Weld #58	B14.10.13	BO			X		100	UT	40817	NA	NA	X	Chemical Etch Weld
02-C-014	CRDM Housing Butt Weld #59	B14.10.14	BO					100	UT	40817				
02-C-015	CRDM Housing Butt Weld #60	B14.10.15	BO					100	UT	40817				
02-C-016	CRDM Housing Butt Weld #61	B14.10.16	BO					100	UT	40817				
02-C-017	CRDM Housing Butt Weld #62	B14.10.17	BO					100	UT	40817				
02-C-018	CRDM Housing Butt Weld #63	B14.10.18	BO					100	UT	40817				
02-C-019	CRDM Housing Butt Weld #64	B14.10.19	BO					100	UT	40817				
02-C-020	CRDM Housing Butt Weld #65	B14.10.20	BO					100	UT	40817				
02-C-021	CRDM Housing Butt Weld #66	B14.10.21	BO					100	UT	40817				
02-C-022	CRDM Housing Butt Weld #67	B14.10.22	BO					100	UT	40817				
02-C-023	CRDM Housing Butt Weld #68	B14.10.23	BO					100	UT	40817				
02-C-024	CRDM Housing Butt Weld #69	B14.10.24	BO					100	UT	40817				
02-C-025	CRDM Base To Motor Tube Weld	B14.10.25	BO					100	UT	40817				#46
02-C-026	CRDM Base To Motor Tube Weld	B14.10.26	BO					100	UT	40817				#47
02-C-027	CRDM Base To Motor Tube Weld	B14.10.27	BO	X				100	UT	40817	NA	NA	X	#48 Chemical Etch Weld
02-C-028	CRDM Base To Motor Tube Weld	B14.10.28	BO					100	UT	40817				#49
02-C-029	CRDM Base To Motor Tube Weld	B14.10.29	BO					100	UT	40817				#50
02-C-030	CRDM Base To Motor Tube Weld	B14.10.30	BO					100	UT	40817				#51

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PROGRAM PLAN AND SCHEDULE

ZONE- 02

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VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

REACTOR PRESSURE VESSEL R1 CLOSURE HEAD

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B2-C-031	CRDM Base To Motor Tube Weld	B14.10.31 BO					100	UT	40817				#52
B2-C-032	CRDM Base To Motor Tube Weld	B14.10.32 BO					100	UT	40817				#53
B2-C-033	CRDM Base To Motor Tube Weld	B14.10.33 BO					100	UT	40817				#54
B2-C-034	CRDM Base To Motor Tube Weld	B14.10.34 BO					100	UT	40817				#55
B2-C-035	CRDM Base To Motor Tube Weld	B14.10.35 BO		X			100	UT	40817	NA	NA	X	#56 Chemical Etch Weld
B2-C-036	CRDM Base To Motor Tube Weld	B14.10.36 BO					100	UT	40817				#57
B2-C-037	CRDM Base To Motor Tube Weld	B14.10.37 BO			X		100	UT	40817	NA	NA	X	#58 Chemical Etch Weld
B2-C-038	CRDM Base To Motor Tube Weld	B14.10.38 BO					100	UT	40817	NA	NA		#59
B2-C-039	CRDM Base To Motor Tube Weld	B14.10.39 BO					100	UT	40817	NA	NA		#60
B2-C-040	CRDM Base To Motor Tube Weld	B14.10.40 BO					100	UT	40817	NA	NA		#61
B2-C-041	CRDM Base To Motor Tube Weld	B14.10.41 BO					100	UT	40817	NA	NA		#62
B2-C-042	CRDM Base To Motor Tube Weld	B14.10.42 BO					100	UT	40817	NA	NA		#63
B2-C-043	CRDM Base To Motor Tube Weld	B14.10.43 BO					100	UT	40817	NA	NA		#64
B2-C-044	CRDM Base To Motor Tube Weld	B14.10.44 BO					100	UT	40817	NA	NA		#65
B2-C-045	CRDM Base To Motor Tube Weld	B14.10.45 BO					100	UT	40817	NA	NA		#66
B2-C-046	CRDM Base To Motor Tube Weld	B14.10.46 BO					100	UT	40817	NA	NA		#67
B2-C-047	CRDM Base To Motor Tube Weld	B14.10.47 BO					100	UT	40817	NA	NA		#68
B2-C-048	CRDM Base To Motor Tube Weld	B14.10.48 BO					100	UT	40817	NA	NA		#69
B2-C-049	CRDM Motor Tube To Extension	B14.10.49 BO					100	UT	40818	NA	NA		#46
B2-C-050	CRDM Motor Tube To Extension	B14.10.50 BO					100	UT	40818	NA	NA		#47
B2-C-051	CRDM Motor Tube To Extension	B14.10.51 BO	X				100	UT	40818	NA	NA	X	#48 Chemical Etch Weld
B2-C-052	CRDM Motor Tube To Extension	B14.10.52 BO					100	UT	40818	NA	NA		#49
B2-C-053	CRDM Motor Tube To Extension	B14.10.53 BO					100	UT	40818	NA	NA		#50
B2-C-054	CRDM Motor Tube To Extension	B14.10.54 BO					100	UT	40818	NA	NA		#51
B2-C-055	CRDM Motor Tube To Extension	B14.10.55 BO					100	UT	40818	NA	NA		#52
B2-C-056	CRDM Motor Tube To Extension	B14.10.56 BO					100	UT	40818	NA	NA		#53
B2-C-057	CRDM Motor Tube To Extension	B14.10.57 BO					100	UT	40818	NA	NA		#54
B2-C-058	CRDM Motor Tube To Extension	B14.10.58 BO					100	UT	40818	NA	NA		#55
B2-C-059	CRDM Motor Tube To Extension	B14.10.59 BO		X			100	UT	40818	NA	NA	X	#56 Chemical Etch Weld
B2-C-060	CRDM Motor Tube To Extension	B14.10.60 BO					100	UT	40818	NA	NA		#57
B2-C-061	CRDM Motor Tube To Extension	B14.10.61 BO			X		100	UT	40818	NA	NA	X	#58 Chemical Etch Weld
B2-C-062	CRDM Motor Tube To Extension	B14.10.62 BO					100	UT	40818	NA	NA		#59
B2-C-063	CRDM Motor Tube To Extension	B14.10.63 BO					100	UT	40818	NA	NA		#60

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ANO-UNIT-ONE

VESSEL PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-02

COMPONENT DESCRIPTION

REACTOR PRESSURE VESSEL R1 CLOSURE HEAD

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R2-C-064	CRDM Motor Tube To Extension	B14.10.64 BO					100	UT	40818	NA	NA		#61
R2-C-065	CRDM Motor Tube To Extension	B14.10.65 BO					100	UT	40818	NA	NA		#62
R2-C-066	CRDM Motor Tube To Extension	B14.10.66 BO					100	UT	40818	NA	NA		#63
R2-C-067	CRDM Motor Tube To Extension	B14.10.67 BO					100	UT	40818	NA	NA		#64
R2-C-068	CRDM Motor Tube To Extension	B14.10.68 BO					100	UT	40818	NA	NA		#65
R2-C-069	CRDM Motor Tube To Extension	B14.10.69 BO					100	UT	40818	NA	NA		#66
R2-C-070	CRDM Motor Tube To Extension	B14.10.70 BO					100	UT	40818	NA	NA		#67
R2-C-071	CRDM Motor Tube To Extension	B14.10.71 BO					100	UT	40818	NA	NA		#68
R2-C-072	CRDM Motor Tube To Extension	B14.10.72 BO					100	UT	40818	NA	NA		#69
R2-C-073	CRDM Extension To Cap Weld	B14.10.73 BO					100	UT	40818	NA	NA		#46
R2-C-074	CRDM Extension To Cap Weld	B14.10.74 BO					100	UT	40818	NA	NA		#47
R2-C-075	CRDM Extension To Cap Weld	B14.10.75 BO	X				100	UT	40818	NA	NA	X	#48 Chemical Etch Weld
R2-C-076	CRDM Extension To Cap Weld	B14.10.76 BO					100	UT	40818	NA	NA		#49
R2-C-077	CRDM Extension To Cap Weld	B14.10.77 BO					100	UT	40818	NA	NA		#50
R2-C-078	CRDM Extension To Cap Weld	B14.10.78 BO					100	UT	40818				#51
R2-C-079	CRDM Extension To Cap Weld	B14.10.79 BO					100	UT	40818				#52
R2-C-080	CRDM Extension To Cap Weld	B14.10.80 BO					100	UT	40818				#53
R2-C-081	CRDM Extension To Cap Weld	B14.10.81 BO					100	UT	40818				#54
R2-C-082	CRDM Extension To Cap Weld	B14.10.82 BO					100	UT	40818				#55
R2-C-083	CRDM Extension To Cap Weld	B14.10.83 BO		X			100	UT	40818	NA	NA	X	#56 Chemical Etch Weld
R2-C-084	CRDM Extension To Cap Weld	B14.10.84 BO					100	UT	40818				#57
R2-C-085	CRDM Extension To Cap Weld	B14.10.85 BO			X		100	UT	40818	NA	NA	X	#58 Chemical Etch Weld
R2-C-086	CRDM Extension To Cap Weld	B14.10.86 BO					100	UT	40818				#59
R2-C-087	CRDM Extension To Cap Weld	B14.10.87 BO					100	UT	40818				#60
R2-C-088	CRDM Extension To Cap Weld	B14.10.88 BO					100	UT	40818				#61
R2-C-089	CRDM Extension To Cap Weld	B14.10.89 BO					100	UT	40818				#62
R2-C-090	CRDM Extension To Cap Weld	B14.10.90 BO					100	UT	40818				#63
R2-C-091	CRDM Extension To Cap Weld	B14.10.91 BO					100	UT	40818				#64
R2-C-092	CRDM Extension To Cap Weld	B14.10.92 BO					100	UT	40818				#65
R2-C-093	CRDM Extension To Cap Weld	B14.10.93 BO					100	UT	40818				#66
R2-C-094	CRDM Extension To Cap Weld	B14.10.94 BO					100	UT	40818				#67
R2-C-095	CRDM Extension To Cap Weld	B14.10.95 BO					100	UT	40818				#68
R2-C-096	CRDM Extension To Cap Weld	B14.10.96 BO					100	UT	40818				#69

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PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE- 02

VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

REACTOR PRESSURE VESSEL R1 CLOSURE HEAD

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R2-N-001	CRDM Nozzle To Head #1	B4.12.1 BE					100	VT-2	NA				
R2-N-002	CRDM Nozzle To Head #2	B4.12.2 BE					100	VT-2	NA				
R2-N-003	CRDM Nozzle To Head #3	B4.12.3 BE					100	VT-2	NA				
R2-N-004	CRDM Nozzle To Head #4	B4.12.4 BE					100	VT-2	NA				
R2-N-005	CRDM Nozzle To Head #5	B4.12.5 BE					100	VT-2	NA				
R2-N-006	CRDM Nozzle To Head #6	B4.12.6 BE					100	VT-2	NA				
R2-N-007	CRDM Nozzle To Head #7	B4.12.7 BE					100	VT-2	NA				
R2-N-008	CRDM Nozzle To Head #8	B4.12.8 BE					100	VT-2	NA				
R2-N-009	CRDM Nozzle To Head #9	B4.12.9 BE					100	VT-2	NA				
R2-N-010	CRDM Nozzle To Head #10	B4.12.10 BE					100	VT-2	NA				
R2-N-011	CRDM Nozzle To Head #11	B4.12.11 BE					100	VT-2	NA				
R2-N-012	CRDM Nozzle To Head #12	B4.12.12 BE					100	VT-2	NA				
R2-N-013	CRDM Nozzle To Head #13	B4.12.13 BE					100	VT-2	NA				
R2-N-014	CRDM Nozzle To Head #14	B4.12.14 BE					100	VT-2	NA				
R2-N-015	CRDM Nozzle To Head #15	B4.12.15 BE					100	VT-2	NA				
R2-N-016	CRDM Nozzle To Head #16	B4.12.16 BE					100	VT-2	NA				
R2-N-017	CRDM Nozzle To Head #17	B4.12.17 BE					100	VT-2	NA				
R2-N-018	CRDM Nozzle To Head #18	B4.12.18 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-019	CRDM Nozzle To Head #19	B4.12.19 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-020	CRDM Nozzle To Head #20	B4.12.20 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-021	CRDM Nozzle To Head #21	B4.12.21 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-022	CRDM Nozzle To Head #22	B4.12.22 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-023	CRDM Nozzle To Head #23	B4.12.23 BE	X				100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-024	CRDM Nozzle To Head #24	B4.12.24 BE		X			100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-025	CRDM Nozzle To Head #25	B4.12.25 BE		X			100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-026	CRDM Nozzle To Head #26	B4.12.26 BE		X			100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-027	CRDM Nozzle To Head #27	B4.12.27 BE		X			100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-028	CRDM Nozzle To Head #28	B4.12.28 BE		X			100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-029	CRDM Nozzle To Head #29	B4.12.29 BE		X			100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-030	CRDM Nozzle To Head #30	B4.12.30 BE			X		100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-031	CRDM Nozzle To Head #31	B4.12.31 BE			X		100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-032	CRDM Nozzle To Head #32	B4.12.32 BE			X		100	VT-2	NA	NA	NA	NA	During System Leakage Test
R2-N-033	CRDM Nozzle To Head #33	B4.12.33 BE			X		100	VT-2	NA	NA	NA	NA	During System Leakage Test

FORM ENG-011

ANO-UNIT-ONE

VESSEL PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 02

COMPONENT DESCRIPTION

REACTOR PRESSURE VESSEL R1 CLOSURE HEAD

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAT. BLOCK	PREP-REQ S	I	WP	REMARKS
02-N-034	CRDM Nozzle To Head #34	B4.12.34 BE			X		100	VT-2	NA	NA	NA	NA	During System Leakage Test
02-N-035	CRDM Nozzle To Head #35	B4.12.35 BE					100	VT-2	NA				
02-N-036	CRDM Nozzle To Head #36	B4.12.36 BE					100	VT-2	NA				
02-N-037	CRDM Nozzle To Head #37	B4.12.37 BE					100	VT-2	NA				
02-N-038	CRDM Nozzle To Head #38	B4.12.38 BE					100	VT-2	NA				
02-N-039	CRDM Nozzle To Head #39	B4.12.39 BE					100	VT-2	NA				
02-N-040	CRDM Nozzle To Head #40	B4.12.40 BE					100	VT-2	NA				
02-N-041	CRDM Nozzle To Head #41	B4.12.41 BE					100	VT-2	NA				
02-N-042	CRDM Nozzle To Head #42	B4.12.42 BE					100	VT-2	NA				
02-N-043	CRDM Nozzle To Head #43	B4.12.43 BE					100	VT-2	NA				
02-N-044	CRDM Nozzle To Head #44	B4.12.44 BE					100	VT-2	NA				
02-N-045	CRDM Nozzle To Head #45	B4.12.45 BE					100	VT-2	NA				
02-N-046	CRDM Nozzle To Head #46	B4.12.46 BE					100	VT-2	NA				
02-N-047	CRDM Nozzle To Head #47	B4.12.47 BE					100	VT-2	NA				
02-N-048	CRDM Nozzle To Head #48	B4.12.48 BE					100	VT-2	NA				
02-N-049	CRDM Nozzle To Head #49	B4.12.49 BE					100	VT-2	NA				
02-N-050	CRDM Nozzle To Head #50	B4.12.50 BE					100	VT-2	NA				
02-N-051	CRDM Nozzle To Head #51	B4.12.51 BE					100	VT-2	NA				
02-N-052	CRDM Nozzle To Head #52	B4.12.52 BE					100	VT-2	NA				
02-N-053	CRDM Nozzle To Head #53	B4.12.53 BE					100	VT-2	NA				
02-N-054	CRDM Nozzle To Head #54	B4.12.54 BE					100	VT-2	NA				
02-N-055	CRDM Nozzle To Head #55	B4.12.55 BE					100	VT-2	NA				
02-N-056	CRDM Nozzle To Head #56	B4.12.56 BE					100	VT-2	NA				
02-N-057	CRDM Nozzle To Head #57	B4.12.57 BE					100	VT-2	NA				
02-N-058	CRDM Nozzle To Head #58	B4.12.58 BE					100	VT-2	NA				
02-N-059	CRDM Nozzle To Head #59	B4.12.59 BE					100	VT-2	NA				
02-N-060	CRDM Nozzle To Head #60	B4.12.60 BE					100	VT-2	NA				
02-N-061	CRDM Nozzle To Head #61	B4.12.61 BE					100	VT-2	NA				
02-N-062	CRDM Nozzle To Head #62	B4.12.62 BE					100	VT-2	NA				
02-N-063	CRDM Nozzle To Head #63	B4.12.63 BE					100	VT-2	NA				
02-N-064	CRDM Nozzle To Head #64	B4.12.64 BE					100	VT-2	NA				
02-N-065	CRDM Nozzle To Head #65	B4.12.65 BE					100	VT-2	NA				
02-N-066	CRDM Nozzle To Head #66	B4.12.66 BE					100	VT-2	NA				

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-02

PAGE-7 of 7

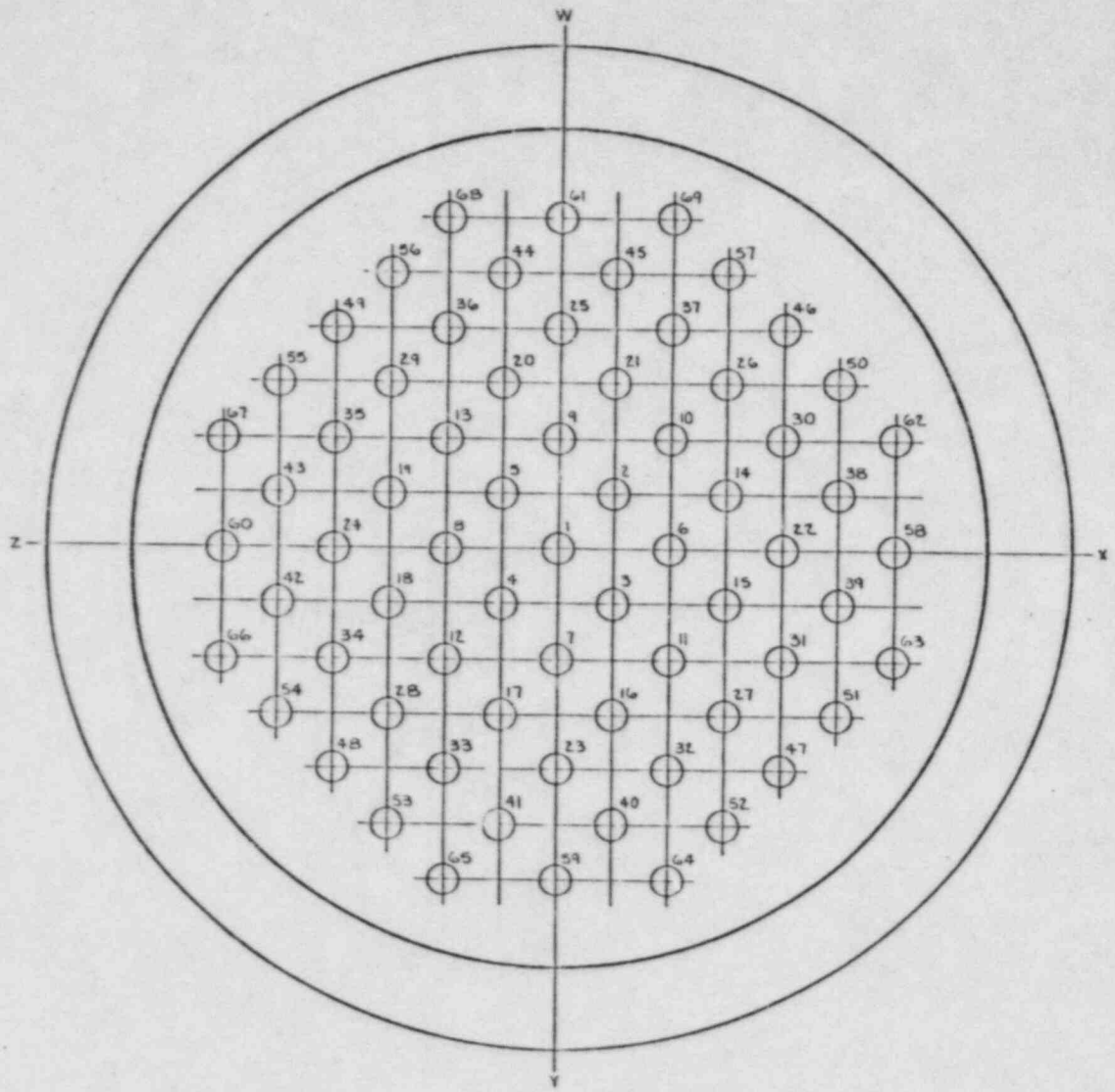
VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

REACTOR PRESSURE VESSEL R1 CLOSURE HEAD

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
02-N-067	CRDM Nozzle To Head #67	B4.12.67 BE					100	VT-2	NA				
02-N-068	CRDM Nozzle To Head #68	B4.12.68 BE					100	VT-2	NA				
02-N-069	CRDM Nozzle To Head #69	B4.12.69 BE					100	VT-2	NA				



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02-N-069

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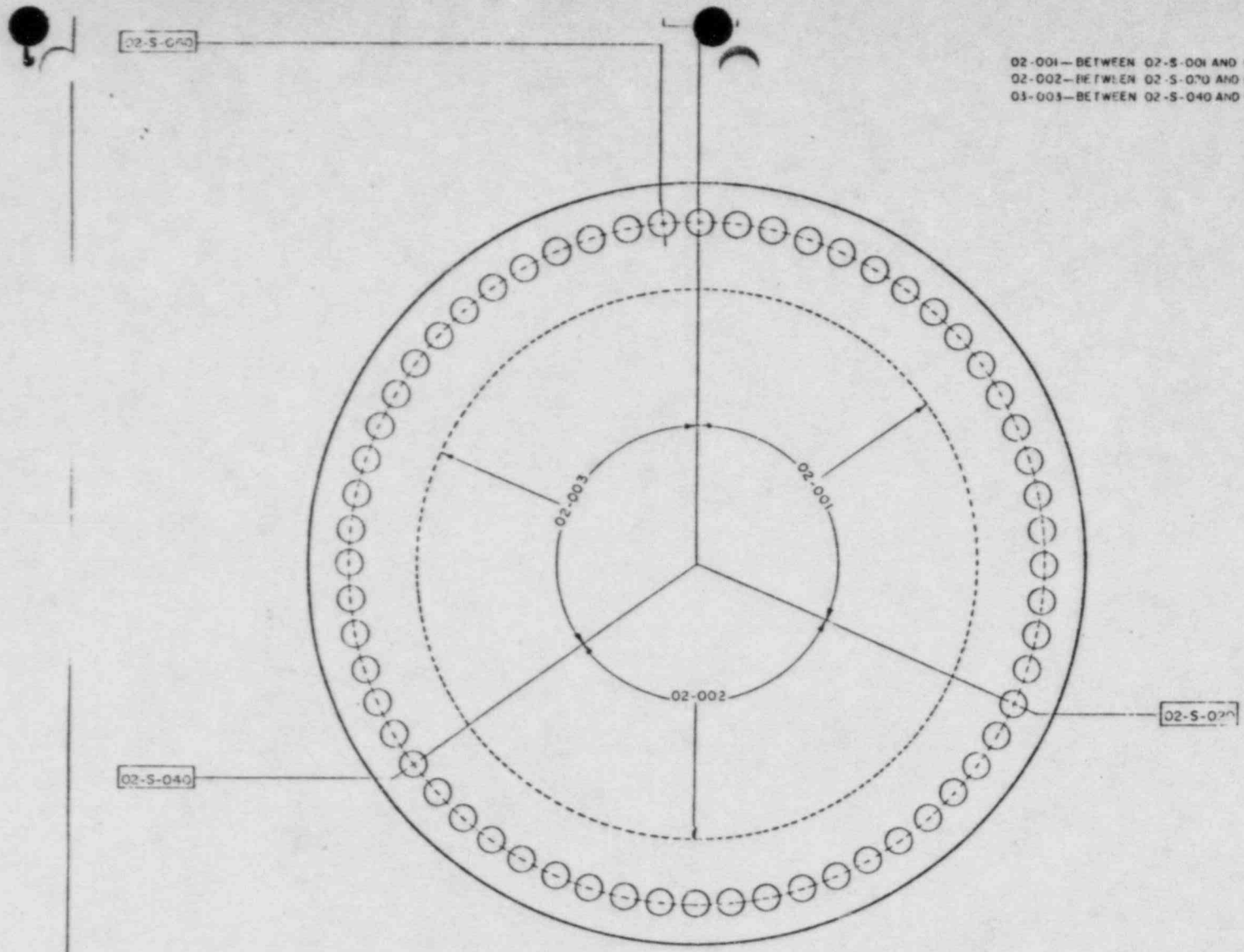
SCALE NONE DESIGN CE DRAWN B BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

REACTOR VESSEL CLOSURE HEAD CROM AND LAYOUT ZONE 02

DRAWING NO. ISI-102 SH. 1 OF 3 REV. 1



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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 2

REACTOR VESSEL HEAD TO FLANGE
ZONE-02

	DRAWING NO.	REV.
	ISI-102	0
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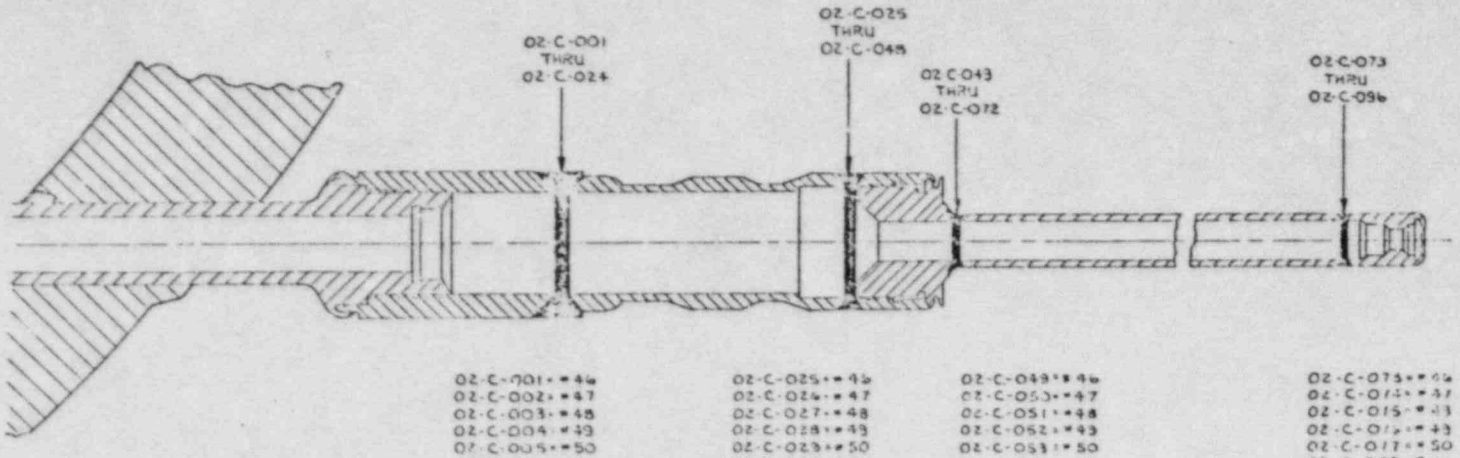

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02-C-093 * 66
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02-C-095 * 68
02-C-096 * 69

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

REACTOR VESSEL - RI
ZONE - 01

ISI-102

FORM ENG-011 | REVISED 12/01/83

PROGRAM PLAN AND SCHEDULE

ANO-UNIT-ONE | ZONE-03 | PAGE-1of 2

VESSEL PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS 1 & 2

1A-STEAM GENERATOR E24A

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
D3-001	Upper Head To Tubesheet Weld	B2.40.1	BB		X			100	UT	40805	X	X	X	
D3-002	Lower Head To Tubesheet Weld	B2.40.2	BB			X		100	UT	40805	X	X	X	
D3-003	Supp Skirt Tran To Low Hd Weld	B8.30.1	BH		X			100	UT	40805	X	X	X	
D3-004	RCS Nozzle To Upper Head Weld	B3.150.1	BD	X				100	UT	40804	X	X	X	
D3-005	Nozzle To Head Inner Radius	B3.160.1	BD	X				100	UT	40804	X	X	X	
D3-006	Low Manway To Low Hd Nozz Weld	B3.150.2	BD			X		100	UT	40804	X	X	X	
D3-007	Nozzle To Head Inner Radius	B3.160.2	BD			X		100	UT	40804	X	X	X	
D3-008	Low Manway to Low Hd Nozz Weld	B3.150.3	BD	X				100	UT	40804	X	X	X	
D3-009	Nozzle To Head Inner Radius	B3.160.3	BD	X				100	UT	40804	X	X	X	
D3-010	Manway To Upper Head Nozzle	B3.150.4	BD			X		100	UT	40804	X	X	X	
D3-011	Nozzle To Head Inner Radius	B3.160.4	BD			X		100	UT	40804	X	X	X	
D3-012	Upper Shell To Tubesheet Weld	C1.10.1	CA		X			100	UT	40805	X	X	X	
D3-013	Upper Shell To Nozz Belt Weld	C1.10.2	CA			X		100	UT	40805	X	X	X	
D3-014	Upper Nozz Belt To Shell Weld	C1.10.3	CA		X			100	UT	40805	X	X	X	
D3-015	Lower Tubesheet To Shell Weld	C1.10.4	CA	X				100	UT	40805	X	X	X	
D3-016	Main Feedwater Nozzle To Shell	C2.21.1	CB		X			100	UT	40805	X	X	X	
D3-017	Nozzle To Shell Inner Radius	C2.22.1	CB		X			100	UT	40805	X	X	X	
D3-018	Main Steam Nozzle To Shell	C2.21.2	CB			X		100	UT	40805	X	X	X	
D3-019	Nozzle To Shell Inner Radius	C2.22.2	CB			X		100	UT	40805	X	X	X	
D3-020	Main Steam Nozzle To Shell	C2.21.3	CB				X	100	UT	40805	X	X	X	
D3-021	Nozzle To Shell Inner Radius	C2.22.3	CB				X	100	UT	40805	X	X	X	
D3-022	EFW Nozzle To Shell Weld	C2.21.4	CB				X	100	UT	40804	X	X	X	
D3-023	Nozzle To Shell Inner Radius	C2.22.4	CB				X	100	UT	40804	X	X	X	
D3-024	Low Inspect Nozz To Shell Weld	C3.150.5	BD	X				100	UT	40805	X	X	X	
D3 025	Upper Head Manway Studs	B6.90.1	BG1	X				100	UT	40858	NA	NA	X	
D3-026	Lower Head Manway Studs	B6.90.2	BG1		X			100	UT	40858	NA	NA	X	
D3-027	Lower Head Manway Studs	B6.90.3	BG1			X		100	UT	40858	NA	NA	X	
D3-028	Upper Head Manway Stud Holes	B6.100.1	BG1	X				100	VT-1	NA	NA	NA	X	When Disassembled
D3-029	Lower Head Manway Stud Holes	B6.100.2	BG1		X			100	VT-1	NA	NA	NA	X	When Disassembled
D3-030	Lower Head Manway Stud Holes	B6.100.3	BG1			X		100	VT-1	NA	NA	NA	X	When Disassembled
D3-031	Upper Head Manway Nuts	B6.110.1	BG1	X				100	VT-1	NA	NA	NA	X	
D3-032	Lower Head Manway Nuts	B6.110.2	BG1		X			100	VT-1	NA	NA	NA	X	
D3-033	Lower Head Manway Nuts	B6.110.3	BG1			X		100	VT-1	NA	NA	NA	X	

FORM ENG-011 — REVISED 12/01/83

ANO-UNIT-ONE — PAGE-2 of 2

VESSEL PRESSURE BOUNDRY — CLASS-1 & 2

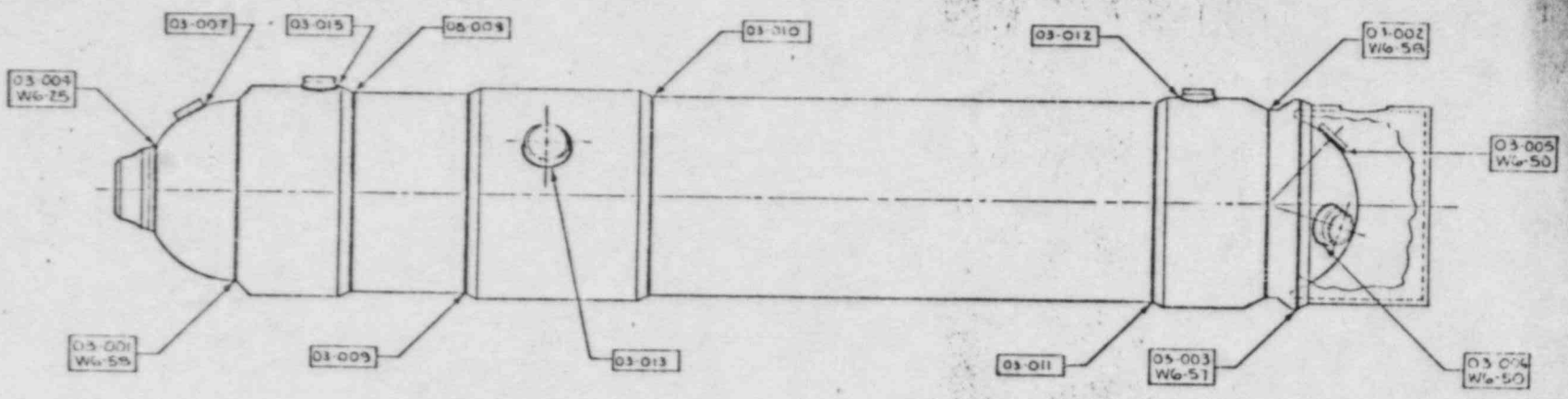
PROGRAM PLAN AND SCHEDULE

ZONE-03

COMPONENT DESCRIPTION

1A-STEAM GENERATOR E24A

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B3-034	Inspection Cover Studs	B6.90.4 BG1			X		100	VT-1	NA	NA	NA	X	
B3-035	Inspection Cover Nuts	B6.110.4 BG1			X		100	VT-1	NA	NA	NA	X	
B3-036	Upper Shell Manway Studs	C4.10.1 CD				X	100	UT	46858	NA	NA	X	
B3-037	Lower Shell Manway Stud	C4.10.2 CD				X	100	UT	46858	NA	NA	X	
B3-038	FW Hdr Brackets To Shell Welds	C3.10.1 CC			X		100	MT	NA	X	X	X	
B3-039	SG Tub In Straight Tube Design	B16.10.1 BQ	X	X	X	X	X	100	ET	40821	X	X	NA	
B3-040	Pressure Retaining Boundry	B15.30 BP	X	X	X	X		100	VT-2	NA	NA	NA	NA	System Leakage Test
B3-041	Pressure Retaining Boundry	B15.31 BP					X	100	VT-2	NA	NA	NA	NA	System Hydrotest



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1	4/3/84	REISSUED PER ISI	TLR	JL	GP	
0	4/3/	ISSUED PER ISI	BB	JL	GP	

SCALE NONE DESIGN CE DRAWN B BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

1A STEAM GENERATOR E24A
ZONE 03

DRAWING NO	REV
ISI - 103	1

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-04

PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1&2

1B STEAM GENERATOR E24B

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
04-001	Upper Head To Tubesheet Weld	B2.40.1	BB					100	UT	40805	X	X	X	All NDE Exams Will Be Performed On 1A-SG E24A
04-002	Lower Head To Tubesheet Weld	B2.40.2	BB					100	UT	40805	X	X	X	
04-003	Supp Skirt Tran To Low Hd Weld	B2.40.3	BB					100	UT	40805	X	X	X	
04-004	RCS Nozzle To Upper Head Weld	B3.150.1	BD					100	UT	40804	X	X	X	
04-005	Nozzle To Head Inner Radius	B3.160.1	BD					100	UT	40804	X	X	X	
04-006	Low Manway To Low Hd Nozz Weld	B3.150.2	BD					100	UT	40804	X	X	X	
04-007	Nozzle To Head Inner Radius	B3.160.2	BD					100	UT	40804	X	X	X	
04-008	Low Manway To Low Hd Nozz Weld	B3.150.3	BD					100	UT	40804	X	X	X	
04-009	Nozzle To Head Inner Radius	B3.160.3	BD					100	UT	40804	X	X	X	
04-010	Manway To Upper Head Nozzle	B3.150.4	BD					100	UT	40804	X	X	X	
04-011	Nozzle To Head Inner Radius	B3.160.4	BD					100	UT	40804	X	X	X	
04-012	Upper Shell To Tube Sheet Weld	C1.10.1	CA					100	UT	40805	X	X	X	
04-013	Upper Shell To Nozz Belt Weld	C1.10.2	CA					100	UT	40805	X	X	X	
04-014	Upper Nozz Belt To Shell Weld	C1.10.3	CA					100	UT	40805	X	X	X	
04-015	Lower Tubesheet To Shell Weld	C1.10.4	CA					100	UT	40805	X	X	X	
04-016	Main Feedwater Nozzle to Shell	C2.21.1	CB					100	UT	40805	X	X	X	
04-017	Nozzle To Shell Inner Radius	C2.22.1	CB					100	UT	40805	X	X	X	
04-018	Main Steam Nozzle To Shell	C2.21.2	CB					100	UT	40805	X	X	X	
04-019	Nozzle To Shell Inner Radius	C2.22.2	CB					100	UT	40805	X	X	X	
04-020	Main Steam Nozzle To Shell	C2.21.3	CB					100	UT	40805	X	X	X	
04-021	Nozzle To Shell Inner Radius	C2.22.3	CB					100	UT	40805	X	X	X	
04-022	EFW Nozzle To Shell Weld	C2.21.4	CB					100	UT	40804	X	X	X	
04-023	Nozzle To Shell Inner Radius	C2.22.4	CB					100	UT	40804	X	X	X	
04-024	Low Inspect Nozz To Shell Weld	B3.150.5	BD					100	UT	40805	X	X	X	
04-025	Upper Head Manway Studs	B6.90.1	BG1					100	UT	40858	NA	NA	X	
04-026	Lower Head Manway Studs	B6.90.2	BG1					100	UT	40858	NA	NA	X	
04-027	Lower Head Manway Studs	B6.90.3	BG1					100	UT	40858	NA	NA	X	
04-028	Upper Head Manway Stud Holes	B6.100.1	BG1					100	VT-1	NA	NA	NA	X	When Disassembled
04-029	Lower Head Manway Stud Holes	B6.100.2	BG1					100	VT-1	NA	NA	NA	X	When Disassembled
04-030	Lower Head Manway Stud Holes	B6.100.3	BG1					100	VT-1	NA	NA	NA	X	When Disassembled
04-031	Upper Head Manway Nuts	B6.110.1	BG1					100	VT-1	NA	NA	NA	X	
04-032	Lower Head Manway Nuts	B6.110.2	BG1					100	VT-1	NA	NA	NA	X	
04-033	Lower Head Manway Nuts	B6.110.3	BG1					100	VT-1	NA	NA	NA	X	

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REVISED 12/01/83

PROGRAM PLAN AND SCHEDULE

ANO-UNIT-ONE

ZONE-04

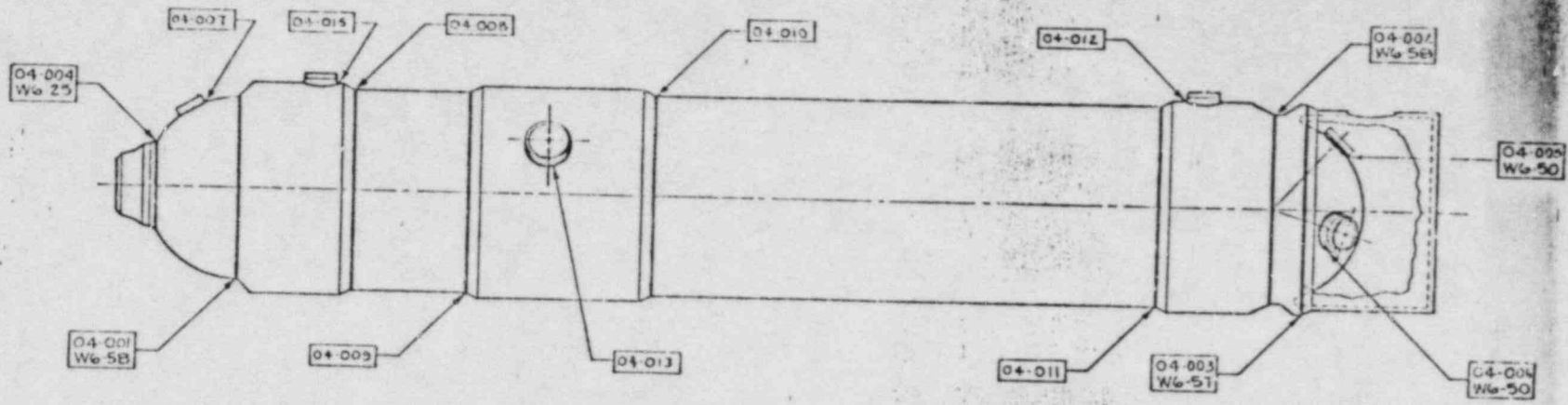
PIPING PRESSURE BOUNDRY

CLASS 1&2

COMPONENT DESCRIPTION

1B STEAM GENERATOR E24B

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
04-034	Inspection Cover Studs	B6.90.4 BG1					100	VT-1	NA	NA	NA	X	
04-035	Inspection Cover Nuts	B6.110.4 BG1					100	VT-1	NA	NA	NA	X	
04-036	Upper Shell Manway Studs	C4.10.1 CD				X	100	UT	46858	NA	NA	X	
04-037	Lower Shell Manway Studs	C4.10.2 CD				X	100	UT	46858	NA	NA	X	
04-038	Feedwater Header Brackets	C3.10.1 CC			X		100	MT	NA	X	X	X	
04-039	SG Tub to Straight Tube Design	B16.10.1 BQ	X	X	X	X	100	ET	40821	X	X	NA	
04-040	Pressure Retaining Boundry	B15.30 BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
04-041	Pressure Retaining Boundry	B15.31 BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest



NO	DATE	REVISION	BY	CHK	ENGR	SUPV
1	7/24	REVISED PER I.I	TLR	DSC	DJP	
0	3/31	ISSUED PER ISI	BB	KL	J	

SCALE: NONE DESIGN: CE DRAWN: B. BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

IB STEAM GENERATOR E24B
ZONE 04

DRAWING NO.	REV.
ISI-104	1

FORM ENG-011

REVISED 12/01/83

PROGRAM PLAN AND SCHEDULE

ANO-UNIT-ONE

ZONE-05

PAGE-1 of 2

VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

PRESSURIZER VESSEL T1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B5-001	Upper Head To Shell Circ Seam	B2.11.1	BB	X				100	UT	40804	X	X	X	Was WP-76 And 1 Ft of LS 002
B5-002	Shell Section #1 Long Seam	B2.12.1	BB	X				100	UT	40804	X	X	X	Was WP-1
B5-003	Shell To Shell Circ Seam	B2.11.2	BB		X			100	UT	40804	X	X	X	Was WP-3
B5-004	Shell Section #2 Long Seam	B2.12.2	BB		X			100	UT	40804	X	X	X	Was WP-1
B5-005	Shell To Shell Circ Seam	B2.11.3	BB			X		100	UT	40804	X	X	X	Was WP-3
B5-006	Shell Section #3 Long Seam	B2.12.3	BB			X		100	UT	40804	X	X	X	Was WP-1
B5-007	Shell To Htr Belt Shell Cir Sm	B2.11.4	BB			X		100	UT	40804	X	X	X	Was WP-4
B5-008	Htr Belt Shell To Lo Hd Cir Sm	B2.11.5	BB				X	100	UT	40804	X	X	X	Was WP-28 and 1 Ft Of LS 010 And 011
B5-009	Htr Bundle Shell Half Cir Seam	B2.11.6	BB				X	100	UT	40804	X	X	X	
B5-010	Htr Bdle Shell Long Sm X-Axis	B2.12.4	BB				X	100	UT	40804	X	X	X	Was WP-7
B5-011	Htr Bdle Shell Long Sm Y-Axis	B2.12.5	BB				X	100	UT	40804	X	X	X	Was WP-7
B5-012	Spray Nozzle To Head Weld	B3.110.1	BD	X				100	UT	40803	X	X	X	Was WP-34
B5-012	Nozzle Inside Radius Section	B3.120.1	BD	X				100	UT	40803	X	X	X	Was WP-33
B5-013	Pzr Relief Nozz Between W-X Ax	B3.110.2	BD		X				UT	40803	X	X	X	Was WP-33
B5-013	Nozzle Inside Radius Section	B3.120.2	BD		X				UT	40803				
B5-014	Pzr Relief Nozz Between X-Y Ax	B3.110.3	BD		X				UT	40803	X	X	X	Was WP-33
B5-014	Nozzle Inside Radius Section	B3.120.3	BD		X			100	UT	40803	X	X	X	
B5-015	Pzr Relief Nozz Between Z-W Ax	B3.110.4	BD				X	100	UT	40803	X	X	X	
B5-015	Nozzle Inside Radius Section	B3.120.4	BD				X	100	UT	40803	X	X	X	
B5-016	Manway To Upper Head Nozzle	B3.110.5	BD	X				100	UT	40803	X	X	X	
B5-016	Nozzle Inside Radius Section	B3.120.5	BD	X				100	UT	40803	X	X	X	
B5-017	Vent Nozzle To Shell Weld	B3.110.6	BD				X	100	UT	40803	X	X	X	
B5-017	Nozzle Inside Radius Section	B3.120.6	BD				X	100	UT	40803	X	X	X	
B5-018	Vent Nozzle To Shell Weld	B3.110.7	BD			X		100	UT	40803	X	X	X	
B5-018	Nozzle Inside Radius Section	B3.120.7	BD			X		100	UT	40803	X	X	X	
B5-019	Drain Line Nozzle To Shell	B3.110.8	BD			X		100	UT	40803	X	X	X	
B5-019	Nozzle Inside Radius Section	B3.120.8	BD			X		100	UT	40803	X	X	X	
B5-020	Drain Line Nozzle To Shell	B3.110.9	BD			X		100	UT	40803	X	X	X	
B5-020	Nozzle Inside Radius Section	B3.120.9	BD			X		100	UT	40803	X	X	X	
B5-021	Surge Nozzle To Bottom Head	B3.110.10	BD	X				100	UT	40803	X	X	X	
B5-021	Nozzle Inside Radius Section	B3.120.10	BD	X				100	UT	40803	X	X	X	
B5-022	Support Lug To Shell Weld	B8.20.1	BH				X	100	MT	NA	X	X	X	W-Axis
B5-022	Shell To Support Lug Weld	B8.20.1	BH				X	100	MT	NA	X	X	X	W-Axis

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-05

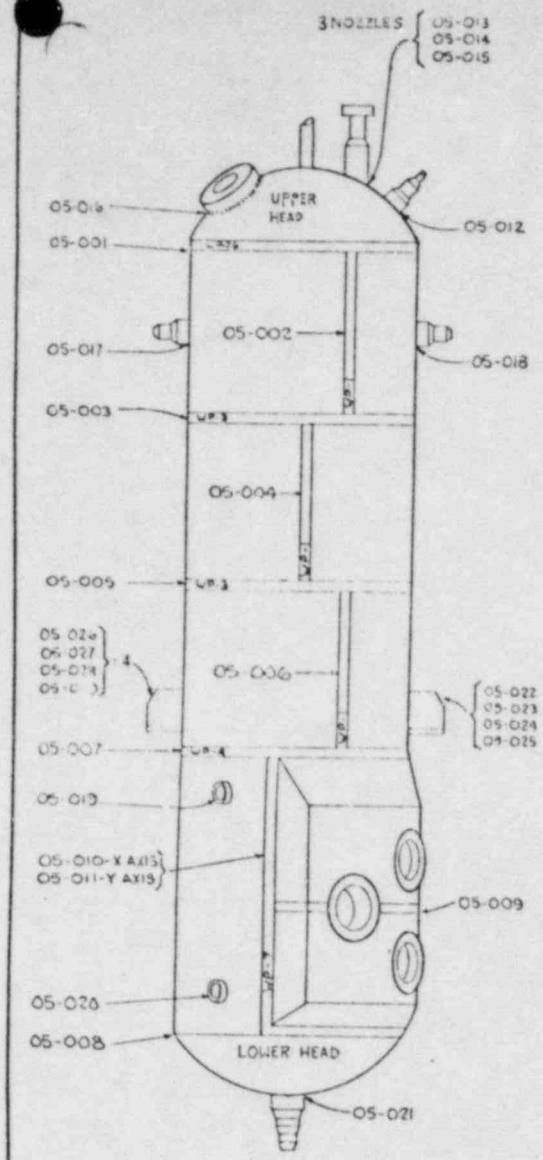
VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

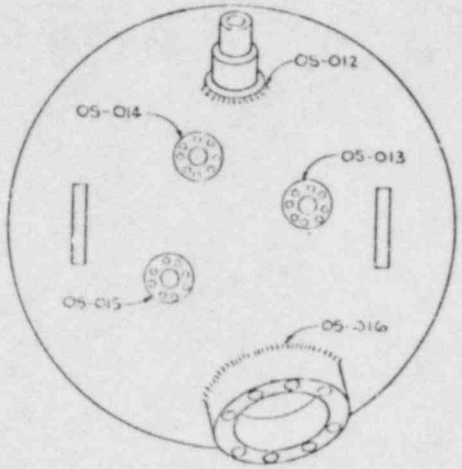
CLASS-1

PRESSURIZER VESSEL T1

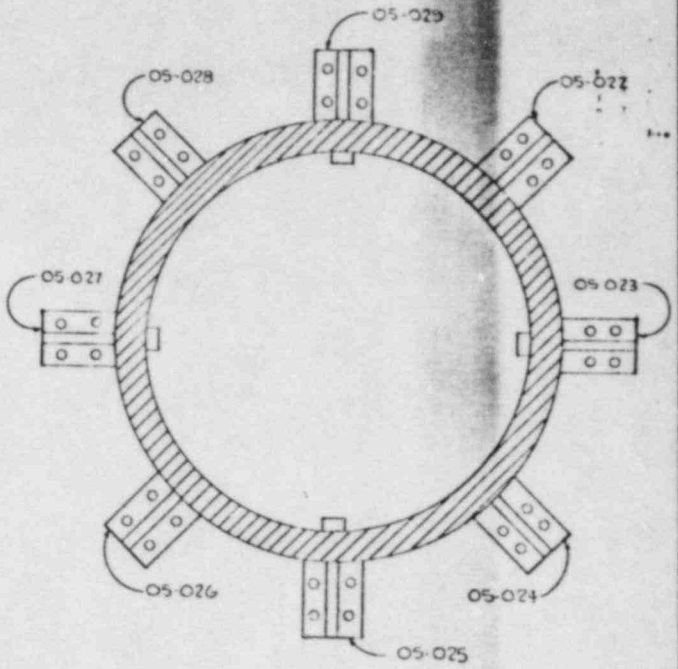
EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
D5-023	Support Lug To Shell Weld	B8.20.2	BH			X		100	MT	NA	X	X	X	W-X Axis
D5-023	Shell To Support Lug Weld	B8.20.2	BH			X		100	MT	NA	X	X	X	W-X Axis
D5-024	Support Lug To Shell Weld	B8.20.3	BH			X		100	MT	NA	X	X	X	X-Axis
D5-024	Shell To Support Lug Weld	B8.20.3	BH			X		100	MT	NA	X	X	X	X-Axis
D5-025	Support Lug To Shell Weld	B8.20.4	BH			X		100	MT UT	NA	X	X	X	X-Y Axis
D5-025	Shell To Support Lug Weld	B8.20.4	BH			X		100	MT UT	NA	X	X	X	X-Y Axis
D5-026	Support Lug To Shell Weld	B8.20.5	BH			X		100	MT UT	NA	X	X	X	Y-Axis
D5-026	Shell To Support Lug Weld	B8.20.5	BH			X		100	MT UT	NA	X	X	X	Y-Axis
D5-027	Support Lug To Shell Weld	B8.20.6	BH			X		100	MT UT	NA	X	X	X	Y-Z Axis
D5-027	Shell To Support Lug Weld	B8.20.6	BH			X		100	MT UT	NA	X	X	X	Y-Z Axis
D5-028	Support Lug To Shell Weld	B8.20.7	BH			X		100	MT UT	NA	X	X	X	Z-Axis
D5-028	Shell To Support Lug Weld	B8.20.7	BH			X		100	MT UT	NA	X	X	X	Z-Axis
D5-029	Support Lug To Shell Weld	B8.20.8	BH			X		100	MT UT	NA	X	X	X	Z-W Axis
D5-029	Shell To Support Lug Weld	B8.20.8	BH			X		100	MT UT	NA	X	X	X	Z-W Axis
D5-030	Heater Connection Welds	B4.20	BE		X			100	VT-2	NA	X	X	X	25 Percent Of Welds
D5-031	Heater Bundle Studs	B6.60.1	BG1		X			100	VT-1	NA	X	X	X	
D5-032	Heater Bundle Nuts	B6.80.1	BG1		X			100	VT-1	NA	X	X	X	
D5-033	Heater Bundle Stud Holes	B6.70.1	BG1		X			100	VT-1	NA	X	X	X	1" Around Stud Holes
D5-034	Manway Studs	B6.60.2	BG1		X			100	UT	40857	X	X	X	
D5-035	Manway Nuts	B6.80.2	BG1		X			100	VT-1	NA	X	X	X	
D5-036	Manway Flange Stud Holes	B6.70.2	BG1		X			100	UT	40856	X	X	X	1" Around Stud Holes
D5-037	Pressure Retaining Boundry	B15.20	BF	X	X	X	X	100	VT-2	NA	X	X	X	System Leakage Test
D5-038	Pressure Retaining Boundry	B15.21	BP				X	100	VT-2	NA	X	X	X	System Hydrotest



PRESSURIZER VESSEL



UPPER HEAD



SUPPORT BRACKETS

NO.	DATE	REVISION	BY	CHK'D
0	12/82	ISSUED PER I&E	[illegible]	

SCALE NONE | DESIGN AP&L | DRAWN SAM BOYER

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

PRESSURIZER VESSEL - T1
ZONE 05

DRAWING NO.	REV.
ISI-105	0

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-06

PAGE-1 of 1

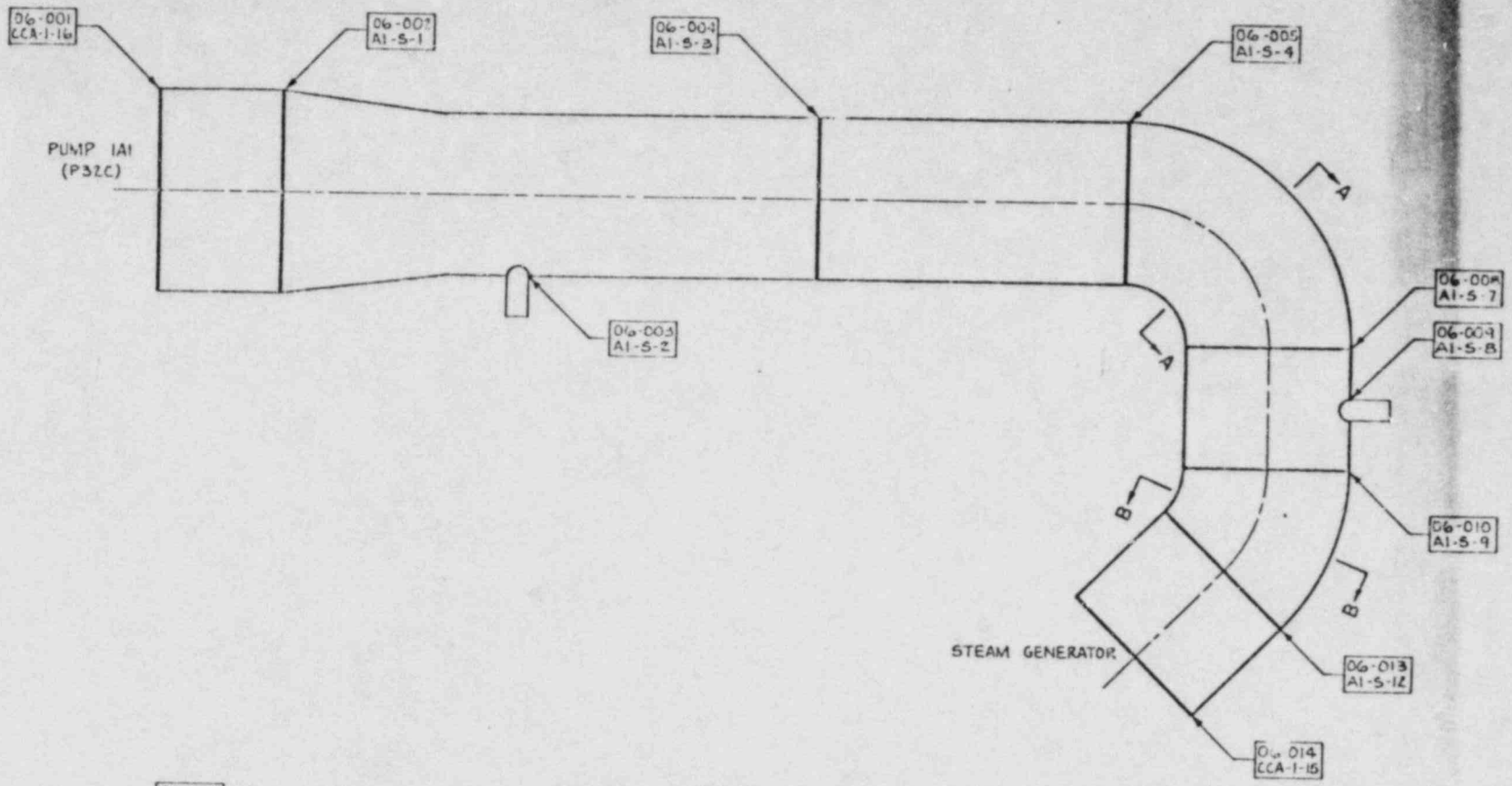
PIPING PRESSURE BOUNDRY

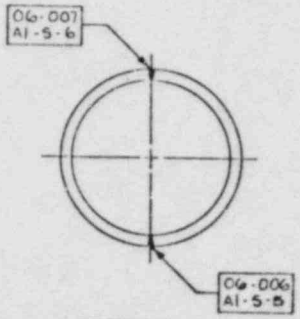
COMPONENT DESCRIPTION

CLASS-1

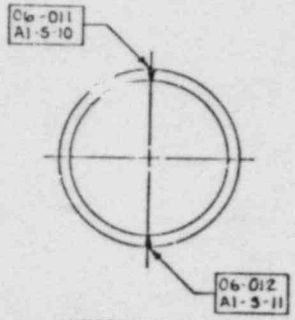
REACTOR COOLANT SUCTION A1-COLD LEG

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
06-001	Pipe To Pump Circ Seam CS	B9.11.1	BJ					100	PT	NA	X	X	X	CCA-1-16
06-001	Pipe To Pump Circ Seam CS	B9.11.1	BJ					100	UT	40812	X	X	X	CCA-1-16
06-002	Pipe To Pipe Circ Seam SE DMW	B5.50.1	BF	X				100	PT	NA	X	X	X	A1-S-1
06-002	Pipe To Pipe Circ Seam SE DMW	B5.50.1	BF	X				100	UT	40812	X	X	X	A1-S-1
06-003	Pipe To Rte Nozzle Branch DMW	B5.50.2	BF		X			100	PT	NA	X	X	X	A1-S-2
06-003	Pipe To Rte Nozzle Branch DMW	B5.50.2	BF		X			100	UT	40812	X	X	X	A1-S-2
06-004	Pipe To Pipe Circ Seam	B9.11.2	BJ					100	MT	NA	X	X	X	A1-S-3
06-004	Pipe To Pipe Circ Seam	B9.11.2	BJ					100	UT	40812	X	X	X	A1-S-3
06-005	Pipe To Ell Circ Seam	B9.11.3	BJ					100	MT	NA	X	X	X	A1-S-4 And 1 FT Of LS 006 And 007
06-005	Pipe To Ell Circ Seam	B9.11.3	BJ					100	UT	40812	X	X	X	A1-S-4 And 1 FT Of LS 006 And 007
06-006	Ell Inside Long Seam	B9.12.1	BJ					100	MT	NA	X	X	X	A1-S-5
06-006	Ell Inside Long Seam	B9.12.1	BJ					100	UT	40812	X	X	X	A1-S-5
06-007	Ell Outside Long Seam	B9.12.2	BJ					100	MT	NA	X	X	X	A1-S-6
06-007	Ell Outside Long Seam	B9.12.2	BJ					100	UT	40812	X	X	X	A1-S-6
06-008	Ell To Pipe Circ Seam	B9.11.4	BJ					100	MT	NA	X	X	X	A1-S-7 And 1 FT Of LS 006 And 007
06-008	Ell To Pipe Circ Seam	B9.11.4	BJ					100	UT	40812	X	X	X	A1-S-7 And 1 FT Of LS 006 And 007
06-009	Pipe To Nozzle Branch DMW	B5.50.3	BF		X			100	MT	NA	X	X	X	A1-S-8
06-009	Pipe To Nozzle Branch DMW	B5.50.3	BF		X			100	UT	40812	X	X	X	A1-S-8
06-010	Pipe To Ell Circ Seam	B9.11.5	BJ					100	MT	NA	X	X	X	A1-S-9 And 1 FT Of LS 011 And 012
06-010	Pipe To Ell Circ Seam	B9.11.5	BJ					100	UT	40812	X	X	X	A1-S-9 And 1 FT Of LS 011 And 012
06-011	Ell Inside Long Seam	B9.12.3	BJ			X		100	MT	NA	X	X	X	A1-S-10
06-011	Ell Inside Long Seam	B9.12.3	BJ			X		100	UT	40812	X	X	X	A1-S-10
06-012	Ell Outside Long Seam	B9.12.4	BJ					100	MT	NA	X	X	X	A1-S-11
06-012	Ell Outside Long Seam	B9.12.4	BJ					100	UT	40812	X	X	X	A1-S-11
06-013	Ell To Pipe Circ Seam	B9.11.6	BJ			X		100	MT	NA	X	X	X	A1-S-12 And 1 FT Of LS 011 And 012
06-013	Ell To Pipe Circ Seam	B9.11.6	BJ			X		100	UT	40812	X	X	X	A1-S-12 And 1 FT Of LS 011 And 012
06-014	Pipe To SG Circ Seam	B9.11.7	BJ				X	100	MT	NA	X	X	X	CCA-1-15
06-014	Pipe To SG Circ Seam	B9.11.7	BJ				X	100	UT	40812	X	X	X	CCA-1-15
06-015	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
06-016	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro Test





SECTION A-A



SECTION B-B

"For Information Only"

NO.	DATE	REVISION	BY	CHK'D	APP'D
0	5/13/83	ISSUED PER ISI	BB		

SCALE: NONE | DESIGN: CE | DRAWN: B BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

1A1 SUCTION FROM
STEAM GENERATOR A
TO PUMP 1A1
ZONE - 06

DRAWING NO.	REV.
ISI - 106	0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-07

COMPONENT DESCRIPTION

REACTOR COOLANT A1 DISCHARGE-COLD LEG

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
07-001	Pipe To Pump 1A Circ Seam CS	B9.11.1 BJ					100	PT	NA	X	X	X	CCA-1-18
07-001	Pipe To Pump 1A Circ Seam CS	B9.11.1 BJ					100	UT	40812	X	X	X	CCA-1-18
07-002	Nozzle To Pipe Branch	B9.31.1 BJ					100	PT	NA	X	X	X	A1-D-1
07-002	Nozzle To Pipe Branch	B9.31.1 BJ					100	UT	40812	X	X	X	A1-D-1
07-003	Pipe To Ell Circ Seam SE	B5.50.1 BF			X		100	PT	NA	X	X	X	A1-D-2 And 1 FT Of LS 004 And 005
07-003	Pipe To Ell Circ Seam SE	B5.50.1 BF			X		100	UT	40812	X	X	X	A1-D-2 And 1 FT Of LS 004 And 005
07-004	Ell Inside Long Seam	B9.12.1 BJ				X	100	MT	NA	X	X	X	A1-D-3
07-004	Ell Inside Long Seam	B9.12.1 BJ				X	100	UT	40812	X	X	X	A1-D-3
07-005	Ell Outside Long Seam	B9.12.2 BJ				X	100	MT	NA	X	X	X	A1-D-4
07-005	Ell Outside Long Seam	B9.12.2 BJ				X	100	UT	40812	X	X	X	A1-D-4
07-006	Ell To Pipe Circ Seam	B9.11.2 BJ		X			100	MT	NA	X	X	X	A1-D-5 And 1 FT Of LS 004 And 005
07-006	Ell To Pipe Circ Seam	B9.11.2 BJ		X			100	UT	40812	X	X	X	A1-D-5 And 1 FT Of LS 004 And 005
07-007	Nozzle To Pipe Branch	B9.31.2 BJ	X				100	PT	NA	X	X	X	A1-D-6
07-007	Nozzle To Pipe Branch	B9.31.2 BJ	X				100	UT	40812	X	X	X	A1-D-6
07-008	Pipe To Ell Circ Seam	B9.11.3 BJ					100	MT	NA	X	X	X	A1-D-7 And 1 FT Of LS 009 And 010
07-008	Pipe To Ell Circ Seam	B9.11.3 BJ					100	UT	40812	X	X	X	A1-D-7 And 1 FT Of LS 009 And 010
07-009	Ell Inside Long Seam	B9.12.3 BJ					100	MT	NA	X	X	X	A1-D-8
07-009	Ell Inside Long Seam	B9.12.3 BJ					100	UT	40812	X	X	X	A1-D-8
07-010	Ell Outside Long Seam	B9.12.4 BJ					100	MT	NA	X	X	X	A1-D-9
07-010	Ell Outside Long Seam	B9.12.4 BJ					100	UT	40812	X	X	X	A1-D-9
07-011	Ell To Pipe Circ Seam	B9.11.4 BJ					100	MT	NA	X	X	X	A1-D-10 And 1 FT Of LS 009 And 010
07-011	Ell To Pipe Circ Seam	B9.11.4 BJ					100	UT	40812	X	X	X	A1-D-10 And 1 FT Of LS 009 And 010
07-012	Nozzle To Pipe Branch DMW	B5.50.2 BF	X				100	MT	NA	X	X	X	A1-D-11
07-012	Nozzle To Pipe Branch DMW	B5.50.2 BF	X				100	UT	40812	X	X	X	A1-D-11
07-013	Pipe To Ell Circ Seam	B9.11.5 BJ					100	MT	NA	X	X	X	A1-D-12 And 1 FT Of LS 014 And 015
07-013	Pipe To Ell Circ Seam	B9.11.5 BJ					100	UT	40812	X	X	X	A1-D-12 And 1 FT Of LS 014 And 015
07-014	Ell Inside Long Seam	B9.12.5 BJ					100	MT	NA	X	X	X	A1-D-13
07-014	Ell Inside Long Seam	B9.12.5 BJ					100	UT	40812	X	X	X	A1-D-13
07-015	Ell Outside Long Seam	B9.12.6 BJ					100	MT	NA	X	X	X	A1-D-14
07-015	Ell Outside Long Seam	B9.12.6 BJ					100	UT	40812	X	X	X	A1-D-14
07-016	Ell To Pipe Circ Seam	B9.11.6 BJ					100	MT	NA	X	X	X	A1-D-15 And 1 FT Of LS 014 And 015
07-016	Ell To Pipe Circ Seam	B9.11.6 BJ					100	UT	40812	X	X	X	A1-D-15 And 1 FT Of LS 014 And 015
07-017	Pipe To RV Nozz Circ Seam	B9.11.7 BJ					100	MT	NA	X	X	X	Exemption Requested

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-07

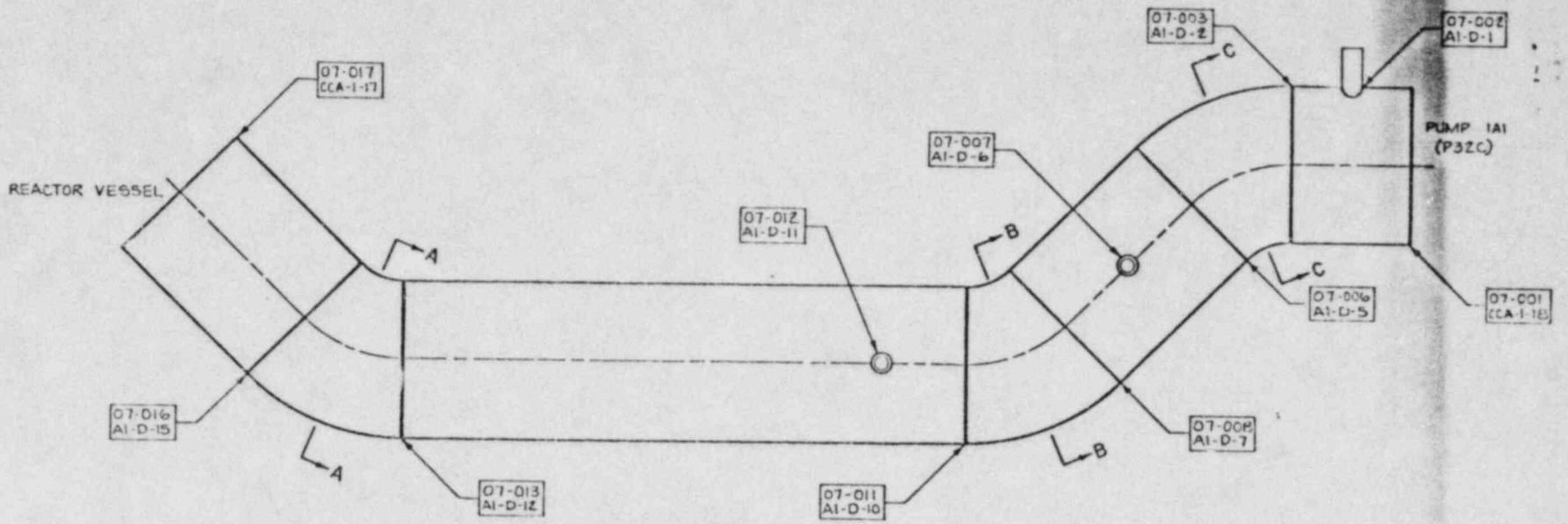
PIPING PRESSURE BOUNDRY

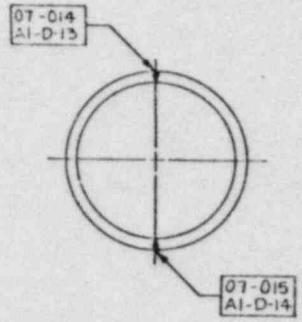
COMPONENT DESCRIPTION

CLASS-1

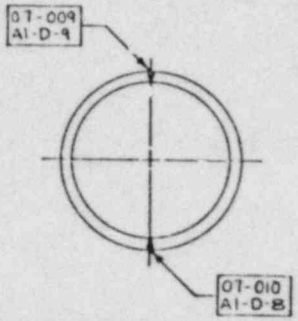
REACTOR COOLANT A1 DISCHARGE-COLD LEG

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
07-017	Pipe To RV Nozz Circ Seam	B9.11.7	BJ					100	UT	40812	X	X	X	CCA-1-17 Remote During RV Weld Exam Catagory B-D
07-018	Pressure Retaining Boundry	B15 50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
07-019	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro Test

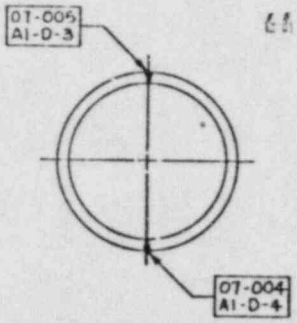




SECTION A-A



SECTION B-B



SECTION C-C

"For Information Only"

NO	DATE	REVISION	BY	CHK
0	5/13/83	ISSUED PER ISI	BB	

SCALE NONE | DES SN CE | DRAWN B BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

1A1 DISCHARGE
FROM PUMP 1A1
TO REACTOR VESSEL
ZONE - 07

DRAWING NO.	REV.
ISI - 107	0

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE- 08

PAGE-1 of 1

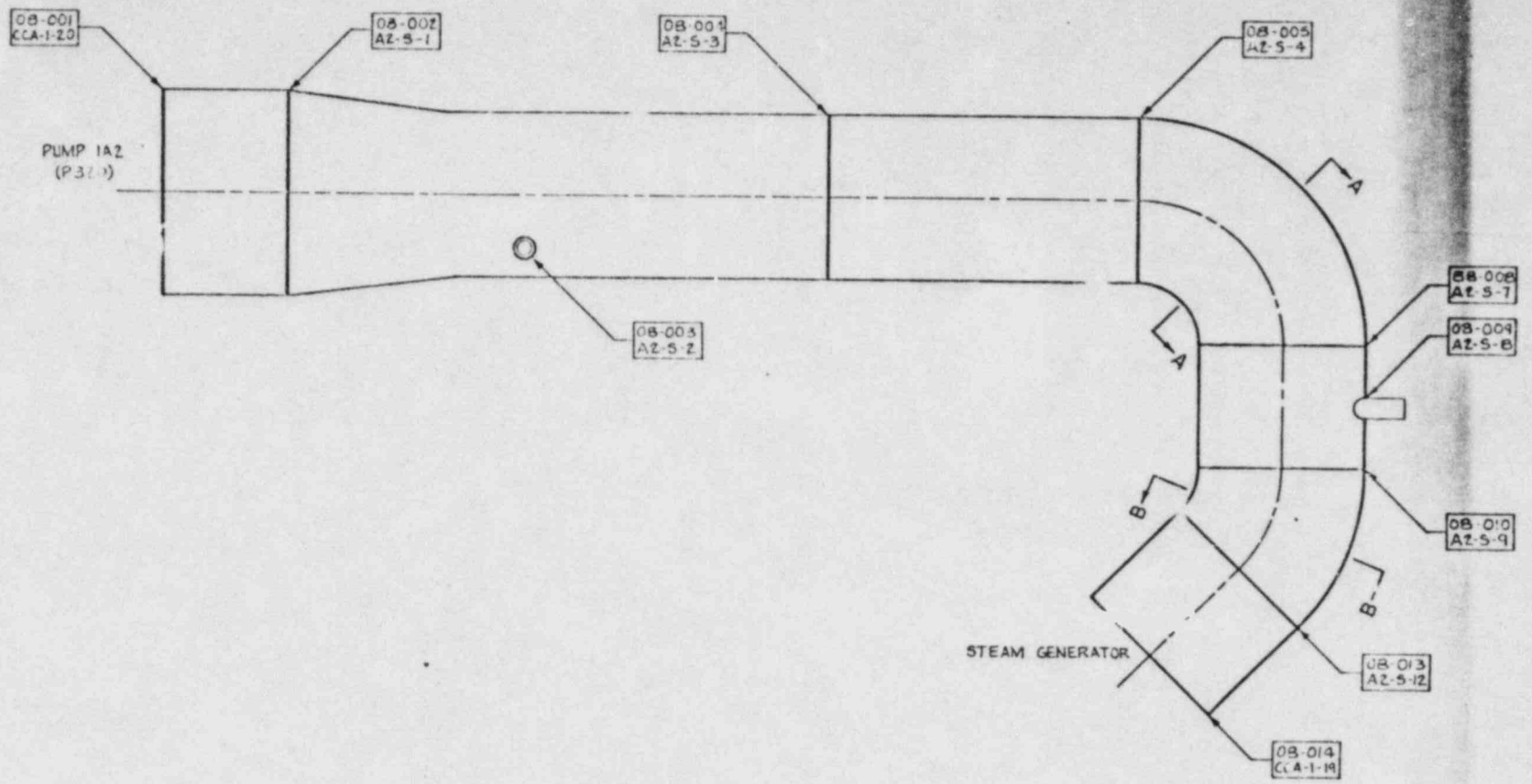
PIPING PRESSURE BOUNDRY

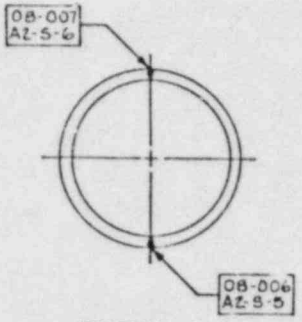
COMPONENT DESCRIPTION

CLASS- 1

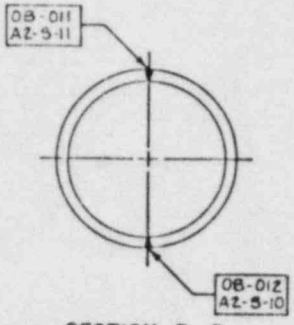
REACTOR COOLANT A2 SUCTION-COLD LEG

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
08-001	Pump 1A2 To Pipe Circ Seam CS	B9.11.1	BJ			X		100	PT	NA	X	X	X	CCA-1-20
08-001	Pump 1A2 To Pipe Circ Seam CS	B9.11.1	BJ			X		100	UT	40812	X	X	X	CCA-1-20
08-002	Pipe To Pipe Circ Seam SE	B5.50.1	BF	X				100	PT	NA	X	X	X	A2-S-1
08-002	Pipe To Pipe Circ Seam SE	B5.50.1	BF	X				100	UT	40812	X	X	X	A2-S-1
08-003	Pipe To Nozzle Branch	B5.50.2	BF		X			100	MT	NA	X	X	X	A2-S-2
08-003	Pipe To Nozzle Branch	B5.50.2	BF		X			100	UT	40812	X	X	X	A2-S-2
08-004	Pipe To Pipe Circ Seam	B9.11.2	BJ	X				100	MT	NA	X	X	X	A2-S-3
08-004	Pipe To Pipe Circ Seam	B9.11.2	BJ	X				100	UT	40812	X	X	X	A2-S-3
08-005	Pipe To Ell Circ Seam	B9.11.3	BJ					100	MT	NA	X	X	X	A2-S-4 And 1 FT Of LS 006 And 007
08-005	Pipe To Ell Circ Seam	B9.11.3	BJ					100	UT	40812	X	X	X	A2-S-4 And 1 FT Of LS 006 And 007
08-006	Ell Inside Long Seam	B9.12.1	BJ					100	MT	NA	X	X	X	A2-S-5
08-006	Ell Inside Long Seam	B9.12.1	BJ					100	UT	40812	X	X	X	A2-S-5
08-007	Ell Outside Long Seam	B9.12.2	BJ					100	MT	NA	X	X	X	A2-S-6
08-007	Ell Outside Long Seam	B9.12.2	BJ					100	UT	40812	X	X	X	A2-S-6
08-008	Ell To Pipe Circ Seam	B9.11.4	BJ					100	MT	NA	X	X	X	A2-S-7 And 1 FT Of LS 006 And 007
08-008	Ell To Pipe Circ Seam	B9.11.4	BJ					100	UT	40812	X	X	X	A2-S-7 And 1 FT Of LS 006 And 007
08-009	Nozzle To Pipe Branch	B5.50.3	BF		X			100	MT	NA	X	X	X	A2-S-8
08-009	Nozzle To Pipe Branch	B5.50.3	BF		X			100	UT	40812	X	X	X	A2-S-8
08-010	Pipe To Ell Circ Seam	B9.11.5	BJ					100	MT	NA	X	X	X	A2-S-9 And 1 FT Of LS 011 And 012
08-010	Pipe To Ell Circ Seam	B9.11.5	BJ					100	UT	40812	X	X	X	A2-S-9 And 1 FT Of LS 011 And 012
08-011	Ell Inside Long Seam	B9.12.3	BJ					100	MT	NA	X	X	X	A2-S-10
08-011	Ell Inside Long Seam	B9.12.3	BJ					100	UT	40812	X	X	X	A2-S-10
08-012	Ell Outside Long Seam	B9.12.4	BJ			X		100	MT	NA	X	X	X	A2-S-11
08-012	Ell Outside Long Seam	B9.12.4	BJ			X		100	UT	40812	X	X	X	A2-S-11
08-013	Ell To Pipe Circ Seam	B9.11.6	BJ					100	MT	NA	X	X	X	A2-S-12 And 1 FT Of LS 011 And 012
08-013	Ell To Pipe Circ Seam	B9.11.6	BJ					100	UT	40812	X	X	X	A2-S-12 And 1 FT Of LS 011 And 012
08-014	Pipe To A Stm Gen Circ Seam	B9.11.7	BJ					100	MT	NA	X	X	X	CCA-1-19
08-014	Pipe To A Stm Gen Circ Seam	B9.11.7	BJ					100	UT	40812	X	X	X	CCA-1-19
08-015	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
08-016	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro Test





SECTION A-A



SECTION B-B

"For Information Only"

NO.	DATE	REVISION	BY	CHK'D	ENG'R	SUP
0	7/13/83	ISSUED PER ISI	BB			

SCALE NONE | DESIGN CE | DRAWN B. BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

1A2 SUCTION FROM
STEAM GENERATOR A
TO PUMP 1A2
ZONE - 08

DRAWING NO	REV.
ISI - 108	0

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-09

PAGE 1 of 1

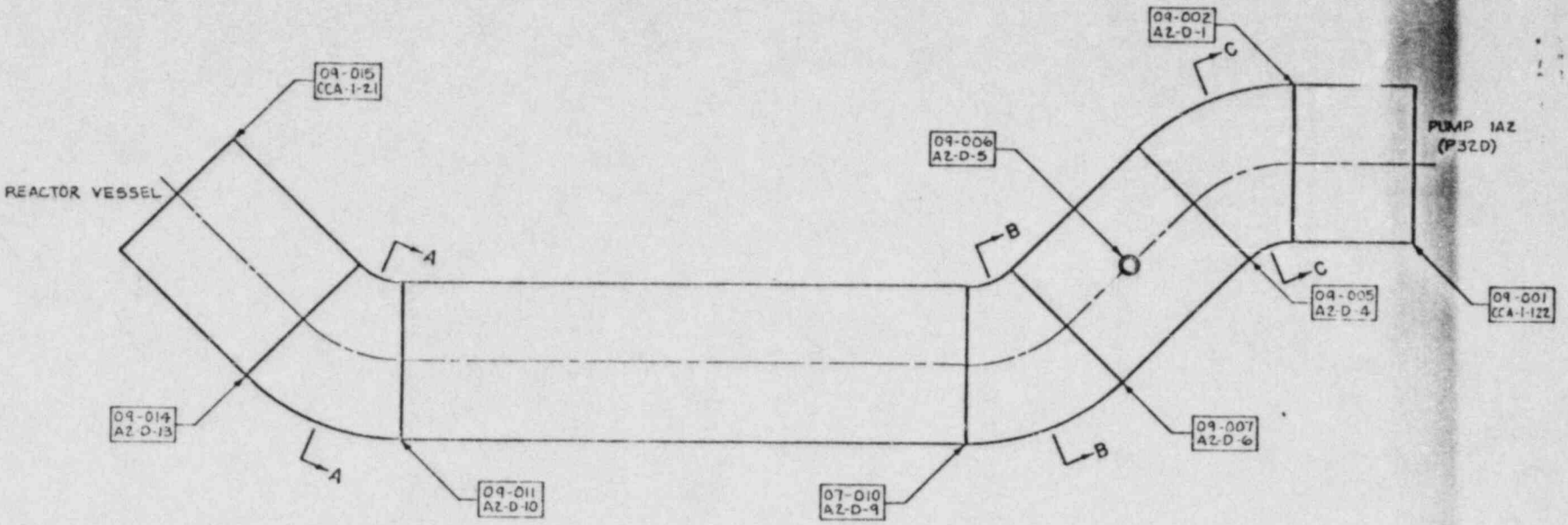
PIPING PRESSURE BOUNDRY

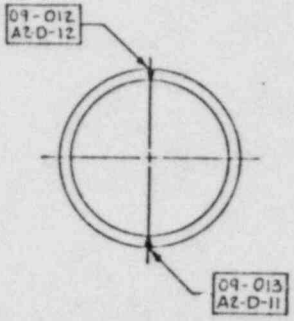
COMPONENT DESCRIPTION

CLASS-1

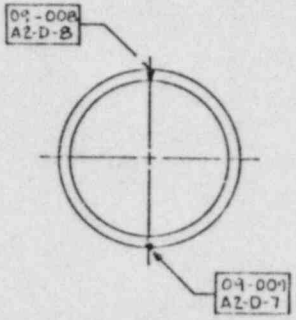
REACTOR COOLANT A2 DISCHARGE-COLD LEG

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
09-001	Pump 1A2 To Pipe Circ Seam CS	B9.11.1	BJ					100	PT	NA	X	X	X	CCA-1-22
09-001	Pump 1A2 To Pipe Circ Seam CS	B9.11.1	BJ					100	UT	40812	X	X	X	CCA-1-22
09-002	Pipe To Ell Circ Seam SE	B5.50.1	BF	X				100	PT	NA	X	X	X	A2-D-1
09-002	Pipe To Ell Circ Seam SE	B5.50.1	BF	X				100	UT	40812	X	X	X	A2-D-1 And 1 FT Of 003 And 004
09-003	Ell Inside Long Seam	B9.12.1	BJ					100	MT	NA	X	X	X	A2-D-2 And 1 FT Of 003 And 004
09-003	Ell Inside Long Seam	B9.12.1	BJ					100	UT	40812	X	X	X	A2-D-2
09-004	Ell Outside Long Seam	B9.12.2	BJ					100	MT	NA	X	X	X	A2-D-3
09-004	Ell Outside Long Seam	B9.12.2	BJ					100	UT	40812	X	X	X	A2-D-3
09-005	Ell To Pipe Circ Seam	B9.11.2	BJ					100	MT	NA	X	X	X	A2-D-4 And 1 FT Of 003 And 004
09-005	Ell To Pipe Circ Seam	B9.11.2	BJ					100	UT	40812	X	X	X	A2-D-4 And 1 FT Of 003 And 004
09-006	Pipe To Nozzle Branch	B9.31.1	BJ			X		100	MT	NA	X	X	X	A2-D-5
09-006	Pipe To Nozzle Branch	B9.31.1	BJ			X		100	UT	40812	X	X	X	A2-D-5
09-007	Pipe To Ell Circ Seam	B9.11.3	BJ		X			100	MT	NA	X	X	X	A2-D-6 And 1 FT Of 008 And 009
09-007	Pipe To Ell Circ Seam	B9.11.3	BJ		X			100	UT	40812	X	X	X	A2-D-6 And 1 FT Of 008 And 009
09-008	Ell Inside Long Seam	B9.12.3	BJ			X		100	MT	NA	X	X	X	A2-D-7
09-008	Ell Inside Long Seam	B9.12.3	BJ			X		100	UT	40812	X	X	X	A2-D-7
09-009	Ell Outside Long Seam	B9.12.4	BJ				X	100	MT	NA	X	X	X	A2-D-8
09-009	Ell Outside Long Seam	B9.12.4	BJ				X	100	UT	40812	X	X	X	A2-D-8
09-010	Ell To Pipe Circ Seam	B9.11.4	BJ		X			100	MT	NA	X	X	X	A2-D-9 And 1 FT Of 008 And 009
09-010	Ell To Pipe Circ Seam	B9.11.4	BJ		X			100	UT	40812	X	X	X	A2-D-9 And 1 FT Of 008 And 009
09-011	Pipe To Ell Circ Seam	B9.11.5	BJ					100	MT	NA	X	X	X	A2-D-10 And 1 FT Of 012 And 013
09-011	Pipe To Ell Circ Seam	B9.11.5	BJ					100	UT	40812	X	X	X	A2-D-10 And 1 FT Of 012 And 013
09-012	Ell Inside Long Seam	B9.12.5	BJ					100	MT	NA	X	X	X	A2-D-11
09-012	Ell Inside Long Seam	B9.12.5	BJ					100	UT	40812	X	X	X	A2-D-11
09-013	Ell Outside Long Seam	B9.12.6	BJ					100	MT	NA	X	X	X	A2-D-12
09-013	Ell Outside Long Seam	B9.12.6	BJ					100	UT	40812	X	X	X	A2-D-12
09-014	Ell To Pipe Circ Seam	B9.11.6	BJ					100	MT	NA	X	X	X	A2-D-13 And 1 FT Of 012 And 013
09-014	Ell To Pipe Circ Seam	B9.11.6	BJ					100	UT	40812	X	X	X	A2-D-13 And 1 FT Of 012 And 013
09-015	Pipe To RV Nozz Circ Seam	B9.11.7	BJ					100	MT	NA	X	X	X	CCA-1-21 Exemption Requested
09-015	Pipe To RV Nozz Circ Seam	B9.11.7	BJ					100	UT	40812	X	X	X	CCA-1-21 Remote During RV Weld Exam Catagory B-D
09-016	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
09-017	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro Test

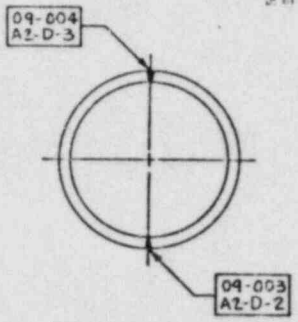




SECTION A-A



SECTION B-B



SECTION C-C

"Tar Relocation City"

NO.	DATE	REVISION	BY
0	5/5/83	ISSUED PER ISI	EB

SCALE: NONE | DESIGN: CE | DRAWN: B. BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

1A2 DISCHARGE
FROM PUMP 1A2
TO REACTOR VESSEL
ZONE - 09

DRAWING NO. ISI - 109 | REV. 0

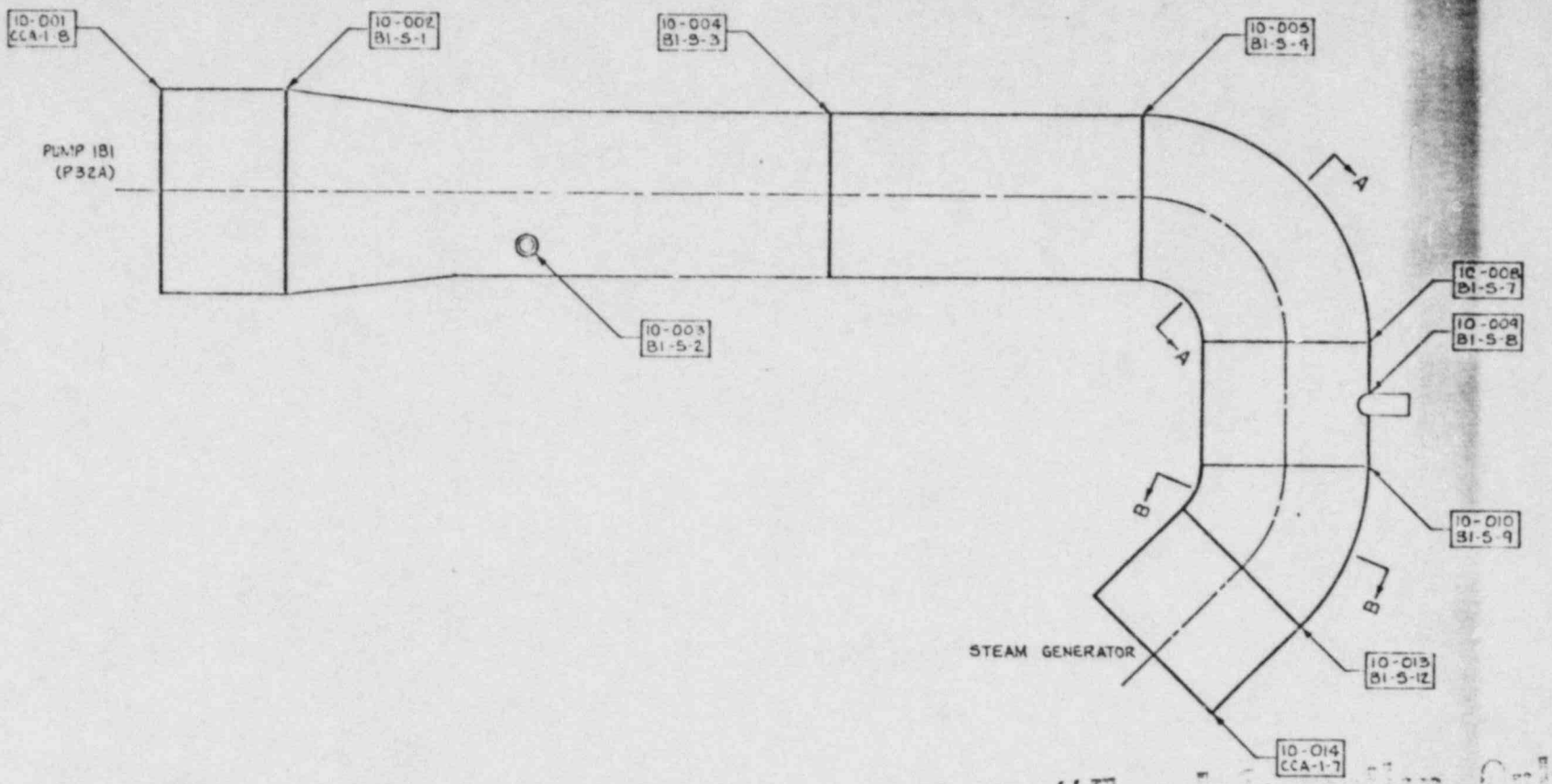
FORM ENG-011 | PROGRAM PLAN AND SCHEDULE | REVISED 12/01/83

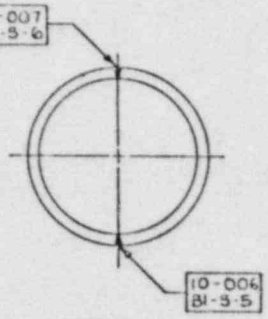
ANO-UNIT-ONE | ZONE-10 | PAGE-1 of 1

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS-1

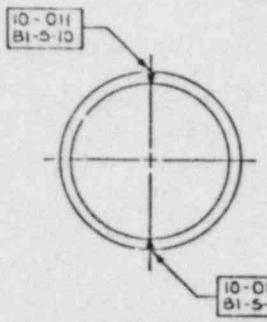
REACTOR COOLANT 1B1 SUCTION-COLD LEG

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
10-001	Pump 1B To Pipe Circ Seam CS	B9.11.1	BJ					100	PT	NA	X	X	X	CCA-1-8
10-001	Pump 1B To Pipe Circ Seam CS	B9.11.1	BJ					100	UT	40812	X	X	X	CCA-1-8
10-002	Pipe To Pipe Circ Seam SE	B5.50.1	BF	X				100	PT	NA	X	X	X	B1-S-1
10-002	Pipe To Pipe Circ Seam SE	B5.50.1	BF	X				100	UT	40812	X	X	X	B1-S-1
10-003	Pipe To Rte Nozzle Branch DMW	B5.50.2	BF			X		100	MT	NA	X	X	X	B1-S-2
10-003	Pipe To Rte Nozzle Branch DMW	B5.50.2	BF			X		100	UT	40812	X	X	X	B1-S-2
10-004	Pipe To Pipe Circ Seam	B9.11.2	BJ					100	MT	NA	X	X	X	B1-S-3
10-004	Pipe To Pipe Circ Seam	B9.11.2	BJ					100	UT	40812	X	X	X	B1-S-3
10-005	Pipe To Ell Circ Seam	B9.11.3	BJ		X			100	MT	NA	X	X	X	B1-S-4 And 1 FT Of 006 And 007
10-005	Pipe To Ell Circ Seam	B9.11.3	BJ		X			100	UT	40812	X	X	X	B1-S-4 And 1 FT Of 006 And 007
10-006	Ell Inside Long Seam	B9.12.1	BJ				X	100	MT	NA	X	X	X	B1-S-5
10-006	Ell Inside Long Seam	B9.12.1	BJ				X	100	UT	40812	X	X	X	B1-S-5
10-007	Ell Outside Long Seam	B9.12.2	BJ					100	MT	NA	X	X	X	B1-S-6
10-007	Ell Outside Long Seam	B9.12.2	BJ					100	UT	40812	X	X	X	B1-S-6
10-008	Ell To Pipe Circ Seam	B9.11.4	BJ		X			100	MT	NA	X	X	X	B1-S-7 And 1 FT Of 006 And 007
10-008	Ell To Pipe Circ Seam	B9.11.4	BJ		X			100	UT	40812	X	X	X	B1-S-7 And 1 FT Of 006 And 007
10-009	Pipe To Drain Nozzle Branch	B9.31.1	BJ			X		100	MT	NA	X	X	X	B1-S-8
10-009	Pipe To Drain Nozzle Branch	B9.31.1	BJ			X		100	UT	40812	X	X	X	B1-S-8
10-010	Pipe To Ell Circ Seam	B9.11.5	BJ					100	MT	NA	X	X	X	B1-S-9 And 1 FT Of 011 And 012
10-010	Pipe To Ell Circ Seam	B9.11.5	BJ					100	UT	40812	X	X	X	B1-S-9 And 1 FT Of 011 And 012
10-011	Ell Inside Long Seam	B9.12.3	BJ					100	MT	NA	X	X	X	B1-S-10
10-011	Ell Inside Long Seam	B9.12.3	BJ					100	UT	40812	X	X	X	B1-S-10
10-012	Ell Outside Long Seam	B9.12.4	BJ					100	MT	NA	X	X	X	B1-S-11
10-012	Ell Outside Long Seam	B9.12.4	BJ					100	UT	40812	X	X	X	B1-S-11
10-013	Ell To Pipe Circ Seam	B9.11.6	BJ					100	MT	NA	X	X	X	B1-S-12 And 1 FT Of 011 And 012
10-013	Ell To Pipe Circ Seam	B9.11.6	BJ					100	UT	40812	X	X	X	B1-S-12 And 1 FT Of 011 And 012
10-014	Pipe To Stm Gen B Circ Seam	B9.11.7	BJ					100	PT	NA	X	X	X	CCA-1-7
10-014	Pipe To Stm Gen B Circ Seam	B9.11.7	BJ					100	UT	40812	X	X	X	CCA-1-7
10-015	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
10-016	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Leakage Test





SECTION A-A



SECTION B-B

NO.	DATE	REVISION	BY	CHK'D	ENG'R APP'D
0	7/13/93	ISSUED PER 151	BB		

SCALE NONE DESIGN CE DRAWN B. BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

1B1 SUCTION FROM
STEAM GENERATOR B
TO PUMP 1B1
ZONE - 10

DRAWING NO. 1SI-110 REV. 0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-11

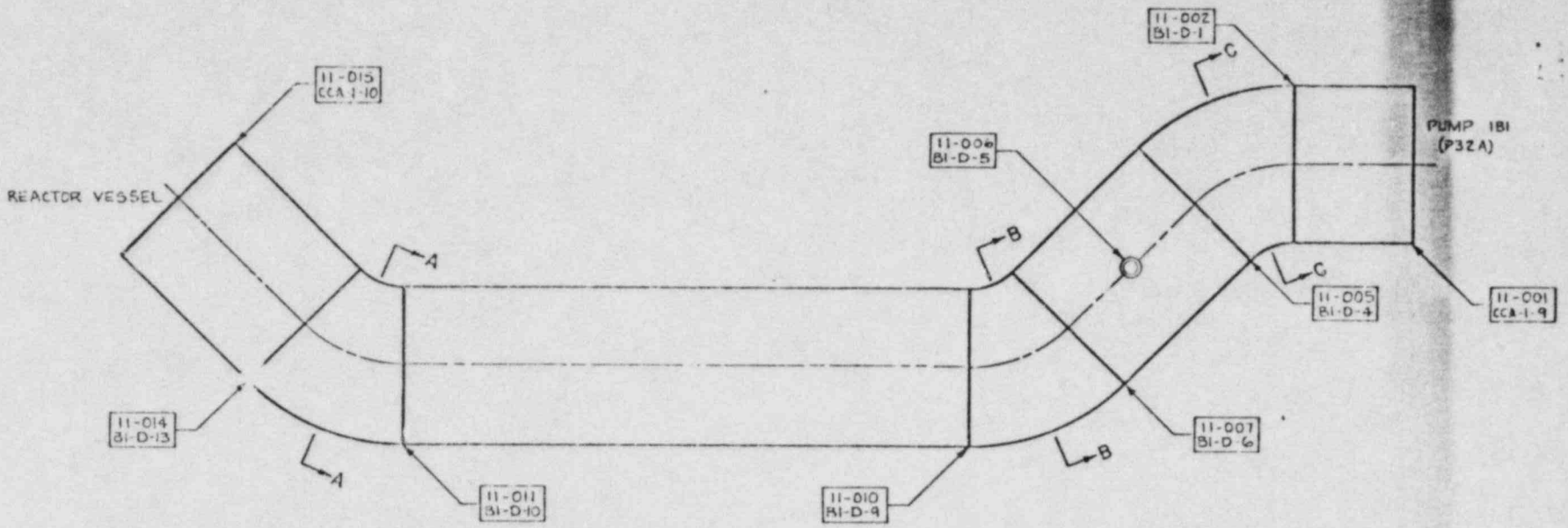
COMPONENT DESCRIPTION

REACTOR COOLANT B1 DISCHARGE-COLD LEG

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
11-001	Pump 1B To Pipe Circ Seam CS	B9.11.1	BJ				X	100	PT	NA	X	X	X	CCA-1-9
11-001	Pump 1B To Pipe Circ Seam CS	B9.11.1	BJ				X	100	UT	40812	X	X	X	CCA-1-9
11-002	Pipe To Ell Circ Seam SE	B5.50.1	BF	X				100	PT	NA	X	X	X	B1-D-1 And 1 FT Of 003 And 004
11-002	Pipe To Ell Circ Seam SE	B5.50.1	BF	X				100	UT	40812	X	X	X	B1-D-1 And 1 FT Of 003 And 004
11-003	Ell Inside Long Seam	B9.12.1	BJ		X			100	MT	NA	X	X	X	B1-D-2
11-003	Ell Inside Long Seam	B9.12.1	BJ		X			100	UT	40812	X	X	X	B1-D-2
11-004	Ell Outside Long Seam	B9.12.2	BJ	X				100	MT	NA	X	X	X	B1-D-3
11-004	Ell Outside Long Seam	B9.12.2	BJ	X				100	UT	40812	X	X	X	B1-D-3
11-005	Ell To Pipe Circ Seam	B9.11.2	BJ			X		100	MT	NA	X	X	X	B1-D-4 And 1 FT Of 003 And 004
11-005	Ell To Pipe Circ Seam	B9.11.2	BJ			X		100	UT	40812	X	X	X	B1-D-4 And 1 FT Of 003 And 004
11-006	Pipe To Rte Nozzle Branch	B9.31.1	BJ	X				100	PT	NA	X	X	X	B1-D-5
11-006	Pipe To Rte Nozzle Branch	B9.31.1	BJ	X				100	UT	40812	X	X	X	B1-D-5
11-007	Pipe To Ell Circ Seam	B9.11.3	BJ					100	MT	NA	X	X	X	B1-D-6 And 1 FT Of 008 And 009
11-007	Pipe To Ell Circ Seam	B9.11.3	BJ					100	UT	40812	X	X	X	B1-D-6 And 1 FT Of 008 And 009
11-008	Ell Inside Long Seam	B9.12.3	BJ					100	MT	NA	X	X	X	B1-D-7
11-008	Ell Inside Long Seam	B9.12.3	BJ					100	UT	40812	X	X	X	B1-D-7
11-009	Ell Outside Long Seam	B9.12.4	BJ					100	MT	NA	X	X	X	B1-D-8
11-009	Ell Outside Long Seam	B9.12.4	BJ					100	UT	40812	X	X	X	B1-D-8
11-010	Ell To Pipe Circ Seam	B9.11.4	BJ					100	MT	NA	X	X	X	B1-D-9 And 1 FT Of 008 And 009
11-010	Ell To Pipe Circ Seam	B9.11.4	BJ					100	UT	40812	X	X	X	B1-D-9 And 1 FT Of 008 And 009
11-011	Pipe To Ell Circ Seam	B9.11.5	BJ					100	MT	NA	X	X	X	B1-D-10 And 1 FT Of 012 And 013
11-011	Pipe To Ell Circ Seam	B9.11.5	BJ					100	UT	40812	X	X	X	B1-D-10 And 1 FT Of 012 And 013
11-012	Ell Inside Long Seam	B9.12.5	BJ					100	MT	NA	X	X	X	B1-D-11
11-012	Ell Inside Long Seam	B9.12.5	BJ					100	UT	40812	X	X	X	B1-D-11
11-013	Ell Outside Long Seam	B9.12.6	BJ					100	MT	NA	X	X	X	B1-D-12
11-013	Ell Outside Long Seam	B9.12.6	BJ					100	UT	40812	X	X	X	B1-D-12
11-014	Ell To Pipe Circ Seam	B9.11.6	BJ					100	MT	NA	X	X	X	B1-D-13 And 1 FT Of 012 And 013
11-014	Ell To Pipe Circ Seam	B9.11.6	BJ					100	UT	40812	X	X	X	B1-D-13 And 1 FT Of 012 And 013
11-015	Pipe To RV Circ Seam	B9.11.7	BJ					100	MT	NA	X	X	X	CAA-1-10 Exemption Requested
11-015	Pipe To RV Circ Seam	B9.11.7	BJ					100	UT	40812	X	X	X	CAA-1-10 Remote During RV Weld Exam Catagory B-F
11-016	Pressure Retaining Boundry	B15.50	BP	X	X	X		100	VT-2	NA	NA	NA	NA	System Leakage Test
11-017	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro Test



SECTION A-A

SECTION B-B

SECTION C-C

"For Information Only"

NO	DATE	REVISION	BY	CHK	ENG	SUP
0	5/3/83	ISSUED PER ISI	BB			

SCALE NONE | DESIGN CE | DRAWN B. BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

1B1 DISCHARGE
FROM PUMP 1B1
TO REACTOR VESSEL
ZONE - 11

DRAWING NO. ISI - 111

REV. 0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-12

COMPONENT DESCRIPTION

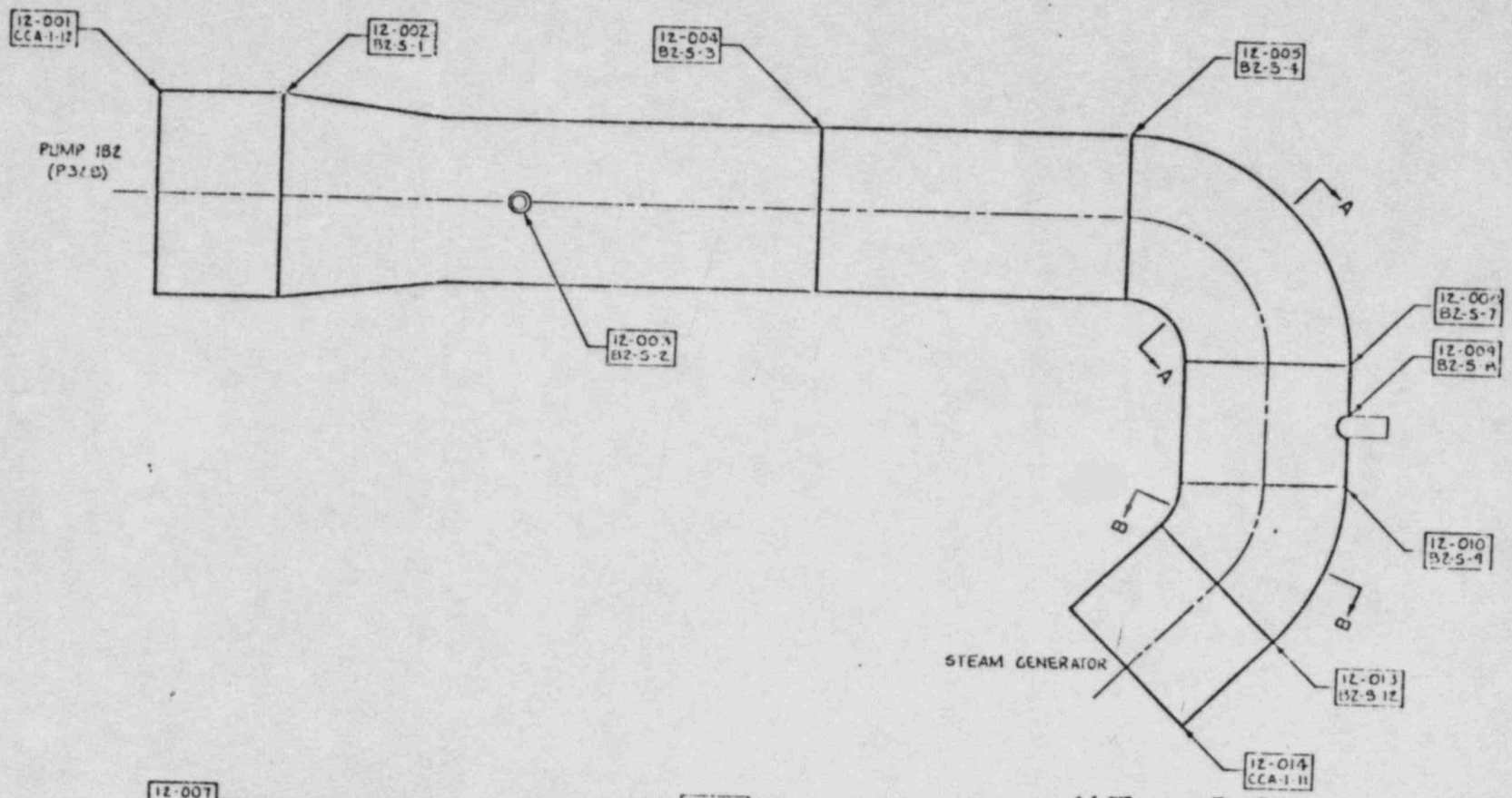
REACTOR COOLANT B2 SUCTION-COLD LEG

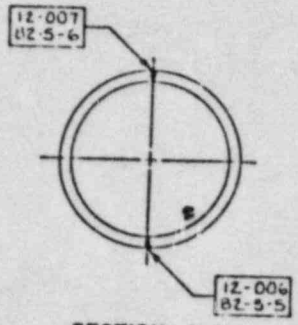
REVISED 12/01/83

AGE-1 of 1

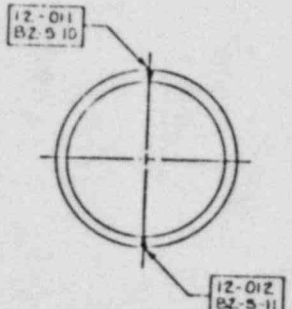
CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
12-001	Pump To Pipe Circ Seam	B9.11.1 BJ					100	PT	NA	X	X	X	CCA-1-12
12-001	Pump To Pipe Circ Seam	B9.11.1 BJ					100	UT	40812	X	X	X	CCA-1-12
12-002	Pipe To Pipe Circ Seam SE	B5.50.1 BF	X				100	MT	NA	X	X	X	B2-S-1
12-002	Pipe To Pipe Circ Seam SE	B5.50.1 BF	X				100	UT	40812	X	X	X	B2-S-1
12-003	Pipe To Rte Nozzle Branch DMW	B5.50.2 BF		X			100	MT	NA	X	X	X	B2-S-2
12-003	Pipe To Rte Nozzle Branch DMW	B5.50.2 BF		X			100	UT	40812	X	X	X	B2-S-2
12-004	Pipe To Pipe Circ Seam	B9.11.2 BJ					100	MT	NA	X	X	X	B2-S-3
12-004	Pipe To Pipe Circ Seam	B9.11.2 BJ					100	UT	40812	X	X	X	B2-S-3
12-005	Pipe To Ell Circ Seam	B9.11.3 BJ					100	MT	NA	X	X	X	B2-S-4 And 1 FT Of 006 And 007
12-005	Pipe To Ell Circ Seam	B9.11.3 BJ					100	UT	408'2	X	X	X	B2-S-4 And 1 FT Of 006 And 007
12-006	Ell Inside Long Seam	B9.12.1 BJ					100	MT	NA	X	X	X	B2-S-5
12-006	Ell Inside Long Seam	B9.12.1 BJ					100	UT	40812	X	X	X	B2-S-5
12-007	Ell Outside Long Seam	B9.12.2 BJ					100	MT	NA	X	X	X	B2-S-6
12-007	Ell Outside Long Seam	B9.12.2 BJ					100	UT	40812	X	X	X	B2-S-6
12-008	Ell To Pipe Circ Seam	B9.11.4 BJ		X			100	MT	NA	X	X	X	B2-S-7 And 1 FT Of 006 And 007
12-008	Ell To Pipe Circ Seam	B9.11.4 BJ		X			100	UT	40812	X	X	X	B2-S-7 And 1 FT Of 006 And 007
12-009	Pipe To Drain Nozz Branch DMW	B5.50.3 BF		X			100	MT	NA	X	X	X	B2-S-8
12-009	Pipe To Drain Nozz Branch DMW	B5.50.3 BF		X			100	UT	40812	X	X	X	B2-S-8
12-010	Pipe To Ell Circ Seam	B9.11.5 BJ			X		100	MT	NA	X	X	X	B2-S-9 And 1 FT Of 011 And 012
12-010	Pipe To Ell Circ Seam	B9.11.5 BJ			X		100	UT	40812	X	X	X	B2-S-9 And 1 FT Of 011 And 012
12-011	Ell Inside Long Seam	B9.12.3 BJ					100	MT	NA	X	X	X	B2-S-10
12-011	Ell Inside Long Seam	B9.12.3 BJ					100	UT	40812	X	X	X	B2-S-10
12-012	Ell Outside Long Seam	B9.12.4 BJ				X	100	MT	NA	X	X	X	B2-S-11
12-012	Ell Outside Long Seam	B9.12.4 BJ				X	100	UT	40812	X	X	X	B2-S-11
12-013	Ell To Pipe Circ Seam	B9.11.6 BJ					100	MT	NA	X	X	X	B2-S-12 And 1 FT Of 011 And 012
12-013	Ell To Pipe Circ Seam	B9.11.6 BJ					100	UT	40812	X	X	X	B2-S-12 And 1 FT Of 011 And 012
12-014	Pipe To Stm Gen 2B Circ Seam	B9.11.7 BJ					100	MT	NA	X	X	X	CCA-1-11
12-014	Pipe To Stm Gen 2B Circ Seam	B9.11.7 BJ					100	UT	40812	X	X	X	CCA-1-11
12-015	Pressure Retaining Boundry	B15.50 BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
12-016	Pressure Retaining Boundry	B15.51 BP				X	100	VT-2	NA	NA	NA	NA	System Hydro Test





SECTION A-A



SECTION B-B

NO	DATE	REVISION	BY	CHK'D
0	1/81	ISSUED PER ISI	BD	

SCALE NONE DESIGN CE DRAWN R. BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

1B2 SUCTION FROM
STEAM GENERATOR B
TO PUMP 1B2
ZONE - 12

DRAWING NO	REV.
ISI - 112	0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-13

COMPONENT DESCRIPTION

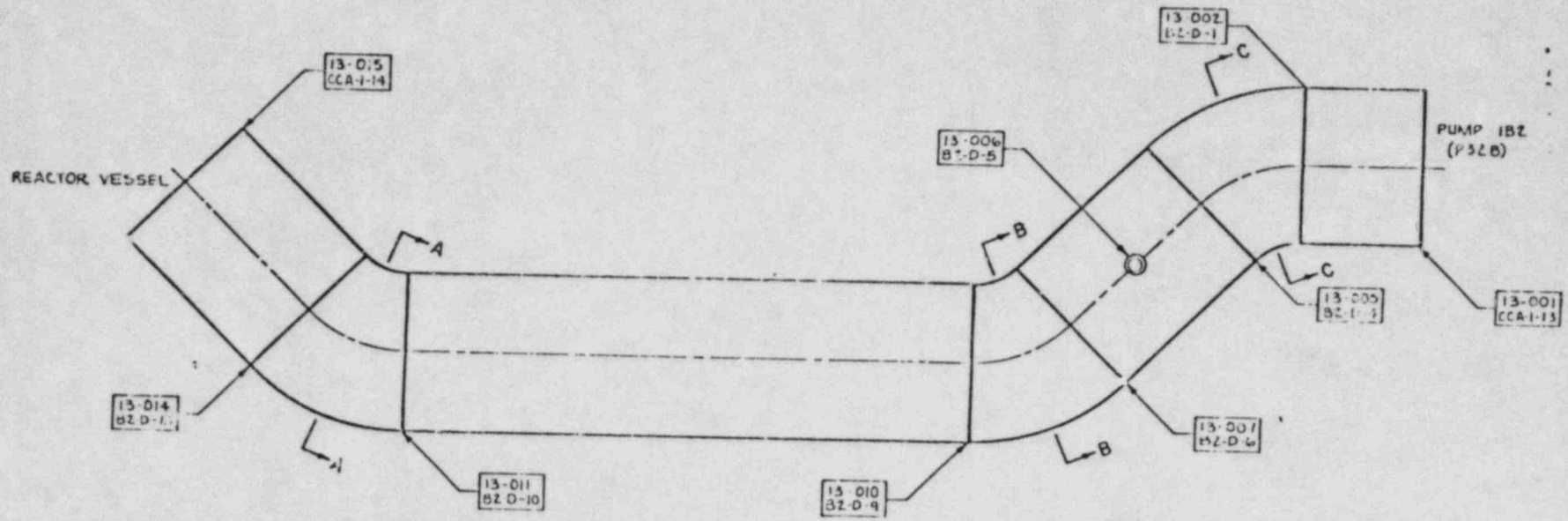
REACTOR COOLANT B2 DISCHARGE-COLD LEG

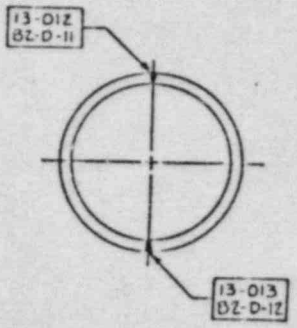
REVISED 12/01/83

PAGE 1 of 1

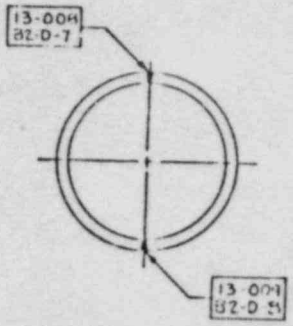
CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
13-001	Pump B2 To Pipe Circ Seam CS	B9.11.1	BJ					100	PT	NA	X	X	X	CCA-1-13
13-001	Pump B2 To Pipe Circ Seam CS	B9.11.1	BJ					100	UT	40812	X	X	X	CCA-1-13
13-002	Pipe To Ell Circ Seam SE	B5.50.1	BF		X			100	PT	NA	X	X	X	B2-D-1 And 1 FT Of 003 And 004
13-002	Pipe To Ell Circ Seam SE	B5.50.1	BF		X			100	UT	40812	X	X	X	B2-D-1 And 1 FT Of 003 And 004
13-003	Ell Inside Long Seam	B9.12.1	BJ				X	100	MT	NA	X	X	X	B2-D-2
13-003	Ell Inside Long Seam	B9.12.1	BJ				X	100	UT	40812	X	X	X	B2-D-2
13-004	Ell Outside Long Seam	B9.12.2	BJ			X		100	MT	NA	X	X	X	B2-D-3
13-004	Ell Outside Long Seam	B9.12.2	BJ			X		100	UT	40812	X	X	X	B2-D-3
13-005	Ell To Pipe Circ Seam	B9.11.2	BJ					100	MT	NA	X	X	X	B2-D-4 And 1 FT Of 003 And 004
13-005	Ell To Pipe Circ Seam	B9.11.2	BJ					100	UT	40812	X	X	X	B2-D-4 And 1 FT Of 003 And 004
13-006	Nozzle To Pipe Branch	B9.31.1	BJ					100	PT	NA	X	X	X	B2-D-5
13-006	Nozzle To Pipe Branch	B9.31.1	BJ					100	UT	40812	X	X	X	B2-D-5
13-007	Pipe To Ell Circ Seam	B9.11.3	BJ					100	MT	NA	X	X	X	B2-D-6 And 1 FT Of 008 And 009
13-007	Pipe To Ell Circ Seam	B9.11.3	BJ					100	UT	40812	X	X	X	B2-D-6 And 1 FT Of 008 And 009
13-008	Ell Inside Long Seam	B9.12.3	BJ					100	MT	NA	X	X	X	B2-D-7
13-008	Ell Inside Long Seam	B9.12.3	BJ					100	UT	40812	X	X	X	B2-D-7
13-009	Ell Outside Long Seam	B9.12.4	BJ					100	MT	NA	X	X	X	B2-D-8
13-009	Ell Outside Long Seam	B9.12.4	BJ					100	UT	40812	X	X	X	B2-D-8
13-010	Ell To Pipe Circ Seam	B9.11.4	BJ					100	MT	NA	X	X	X	B2-D-9 And 1 FT Of 008 And 009
13-010	Ell To Pipe Circ Seam	B9.11.4	BJ					100	UT	40812	X	X	X	B2-D-9 And 1 FT Of 008 And 009
13-011	Pipe To Ell Circ Seam	B9.11.5	BJ					100	MT	NA	X	X	X	B2-D-10 And 1 FT Of 012 And 013
13-011	Pipe To Ell Circ Seam	B9.11.5	BJ					100	UT	40812	X	X	X	B2-D-10 And 1 FT Of 012 And 013
13-012	Ell Inside Long Seam	B9.12.5	BJ					100	MT	NA	X	X	X	B2-D-11
13-012	Ell Inside Long Seam	B9.12.5	BJ					100	UT	40812	X	X	X	B2-D-11
13-013	Ell Outside Long Seam	B9.12.6	BJ					100	MT	NA	X	X	X	B2-D-12
13-013	Ell Outside Long Seam	B9.12.6	BJ					100	UT	40812	X	X	X	B2-D-12
13-014	Ell To Pipe Circ Seam	B9.11.6	BJ		X			100	MT	NA	X	X	X	B2-D-13 And 1 FT Of 012 And 013
13-014	Ell To Pipe Circ Seam	B9.11.6	BJ		X			100	UT	40812	X	X	X	B2-D-13 And 1 FT Of 012 And 013
13-015	Pipe To RV Nozzle Circ Seam	B9.11.7	BJ	X				100	MT	NA	X	X	X	CCA-1-14 Exemption Requested
13-015	Pipe To RV Nozzle Circ Seam	B9.11.7	BJ	X				100	UT	40812	X	X	X	CCA-1-14 Remote During RV Weld Exam Catagory B-D
13-016	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
13-017	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro Test

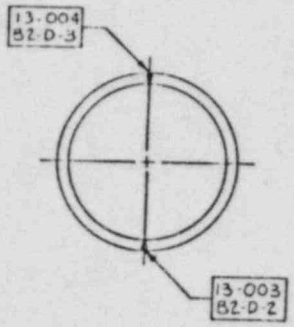




SECTION A-A



SECTION B-B



SECTION C-C

0	7/18	ISSUED PER ISI	RB	
NO	DATE	REVISION	BY	CHK

SCALE NONE | DESIGN CE | DRAWN B BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

1B2 DISCHARGE LINE
FROM PUMP 1B2
TO REACTOR VESSEL
ZONE - 13

DRAWING NO	REV.
ISI - 113	0

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-14

PAGE 1 of 2

PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

A REACTOR COOLANT-HOT LEG

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
14-001	Stm Gen A To Pipe Circ Seam	B9.11.1 BJ					100	PT	NA	X	X	X	CCA-1-4
14-001	Stm Gen A To Pipe Circ Seam	B9.11.1 BJ					100	UT	40812	X	X	X	CCA-1-4
14-002	Pipe To Ell Circ Seam	B9.11.2 BJ					100	MT	NA	X	X	X	AH-1 And 1 FT Of 003 And 004
14-002	Pipe To Ell Circ Seam	B9.11.2 BJ					100	UT	40812	X	X	X	AH-1 And 1 FT Of 003 And 004
14-003	Ell Inside Long Seam	B9.12.1 BJ					100	MT	NA	X	X	X	AH-2
14-003	Ell Inside Long Seam	B9.12.1 BJ					100	UT	40812	X	X	X	AH-2
14-004	Ell Outside Long Seam	B9.12.2 BJ					100	MT	NA	X	X	X	AH-3
14-004	Ell Outside Long Seam	B9.12.2 BJ					100	UT	40812	X	X	X	AH-3
14-005	Pipe To Nozzle Branch DMW	B5.50.1 BF	X				100	PT	NA	X	X	X	AH-4
14-005	Pipe To Nozzle Branch DMW	B5.50.1 BF	X				100	UT	40812	X	X	X	AH-4
14-006	Ell To Ell Circ Seam	B9.11.3 BJ					100	MT	NA	X	X	X	AH-5 And 1 FT Of 003 And 004-007 And 008
14-006	Ell To Ell Circ Seam	B9.11.3 BJ					100	UT	40812	X	X	X	AH-5 And 1 FT Of 003 And 004-007 And 008
14-007	Ell Inside Long Seam	B9.12.3 BJ		X			100	MT	NA	X	X	X	AH-6
14-007	Ell Inside Long Seam	B9.12.3 BJ		X			100	UT	40812	X	X	X	AH-6
14-008	Ell Outside Long Seam	B9.12.4 BJ		X			100	MT	NA	X	X	X	AH-7
14-008	Ell Outside Long Seam	B9.12.4 BJ		X			100	UT	40812	X	X	X	AH-7
14-009	Ell To Pipe Circ Seam	B9.11.4 BJ					100	MT	NA	X	X	X	AH-8 And 1 FT Of 007 And 008
14-009	Ell To Pipe Circ Seam	B9.11.4 BJ					100	UT	40812	X	X	X	AH-8 And 1 FT Of 007 And 008
14-010	Pipe To Nozzle Branch DMW	B5.50.2 BF	X				100	PT	NA	X	X	X	AH-9
14-010	Pipe To Nozzle Branch DMW	B5.50.2 BF	X				100	UT	40812	X	X	X	AH-9
14-011	Pipe To Nozzle Branch DMW	B5.50.3 BF			X		100	MT	NA	X	X	X	AH-10
14-011	Pipe To Nozzle Branch DMW	B5.50.3 BF			X		100	UT	40812	X	X	X	AH-10
14-012	Pipe To Nozzle Branch DMW	B5.50.4 BF			X		100	MT	NA	X	X	X	AH-11
14-012	Pipe To Nozzle Branch DMW	B5.50.4 BF			X		100	UT	40812	X	X	X	AH-11
14-013	Pipe To Nozzle Branch DMW	B5.50.5 BF		X			100	MT	NA	X	X	X	AH-12
14-013	Pipe To Nozzle Branch DMW	B5.50.5 BF		X			100	UT	40812	X	X	X	AH-12
14-014	Pipe To Pipe Circ Seam	B9.11.5 BJ					100	MT	NA	X	X	X	AH-13
14-014	Pipe To Pipe Circ Seam	B9.11.5 BJ					100	UT	40812	X	X	X	AH-13
14-015	Pipe To Pipe Circ Seam	B9.11.6 BJ					100	MT	NA	X	X	X	AH-14
14-015	Pipe To Pipe Circ Seam	B9.11.6 BJ					100	UT	40812	X	X	X	AH-14
14-016	Pipe To Nozzle Branch DMW	B5.50.6 BJ			X		100	MT	NA	X	X	X	AH-15
14-016	Pipe To Nozzle Branch DMW	B5.50.6 BF			X		100	UT	40812	X	X	X	AH-15
14-017	Pipe To Nozzle Branch DMW	B5.50.7 BF		X			100	MT	NA	X	X	X	AH-16

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-14

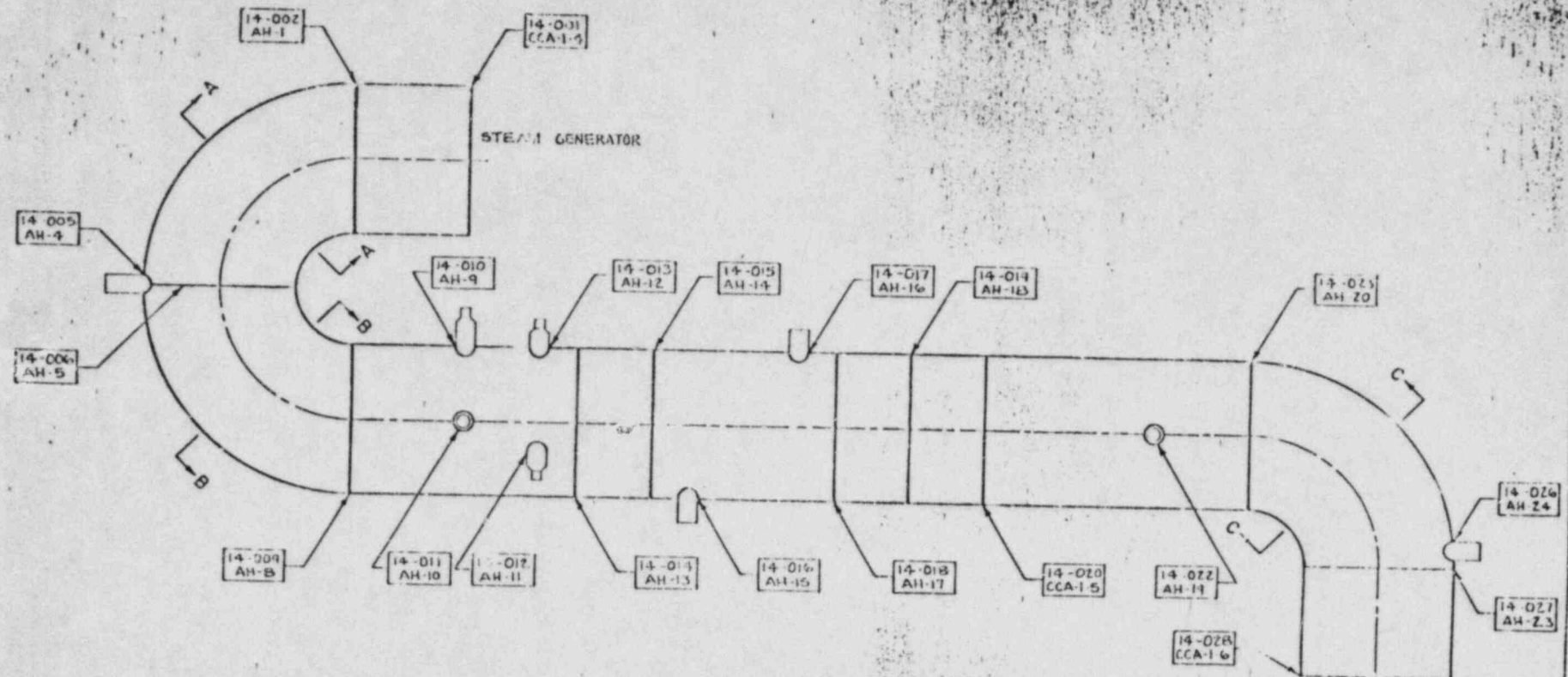
COMPONENT DESCRIPTION

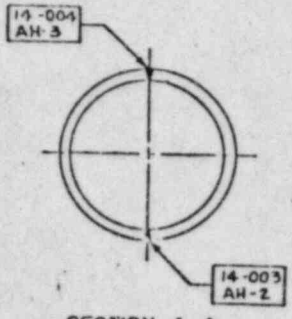
A REACTOR COOLANT-HOT LEG

REVISED 12/01/83

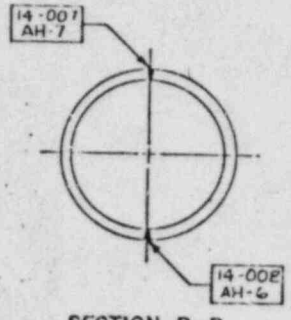
CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
14-017	Pipe To Nozzle Branch DMW	B5.50.7	BJ	X				100	UT	40812	X	X	X	AH-16
14-018	Pipe To Pipe Circ Seam	B9. 1.7	BJ	X				100	MT	NA	X	X	X	AH-17
14-018	Pipe To Pipe Circ Seam	B9.11.7	BJ	X				100	UT	40812	X	X	X	AH-17
14-019	Pipe To Pipe Circ Seam	B9.11.8	BJ			X		100	MT	NA	X	X	X	AH-18
14-019	Pipe To Pipe Circ Seam	B9.11.8	BJ			X		100	UT	40812	X	X	X	AH-18
14-020	Pipe To Pipe Circ Seam	B9.11.9	BJ			X		100	MT	NA	X	X	X	CCA-1-5
14-020	Pipe To Pipe Circ Seam	B9.11.9	BJ			X		100	UT	40812	X	X	X	CCA-1-5
14-021	Pipe To Pipe Circ Seam	B9.11.10	BJ					100	MT	NA	X	X	X	
14-021	Pipe To Pipe Circ Seam	B9.11.10	BJ					100	UT	40812	X	X	X	
14-022	Pipe To Nozzle Branch	B9.31.1	BJ					100	PT	NA	X	X	X	AH-19
14-022	Pipe To Nozzle Branch	B9.31.1	BJ					100	UT	40812	X	X	X	AH-19
14-023	Pipe To Ell Circ Seam	B9.11.11	BJ					100	MT	NA	X	X	X	AH-20 And 1 FT Of 024 And 025
14-023	Pipe To Ell Circ Seam	B9.11.11	BJ					100	UT	40812	X	X	X	AH-20 And 1 FT Of 024 And 025
14-024	Ell Inside Long Seam	B9.12.5	BJ					100	MT	NA	X	X	X	AH-21
14-024	Ell Inside Long Seam	B9.12.5	BJ					100	UT	40812	X	X	X	AH-21
14-025	Ell Outside Long Seam	B9.12.6	BJ					100	MT	NA	X	X	X	AH-22
14-025	Ell Outside Long Seam	B9.12.6	BJ					100	UT	40812	X	X	X	AH-22
14-026	Pipe To Nozzle Branch	B9.31.2	BJ	X				100	PT	NA	X	X	X	AH-23
14-026	Pipe To Nozzle Branch	B9.31.2	BJ	X				100	UT	40812	X	X	X	AH-23
14-027	Ell To Pipe Circ Seam	B9.11.12	BJ					100	MT	NA	X	X	X	AH-24 And 1 FT Of 024 And 025
14-027	Ell To Pipe Circ Seam	B9.11.12	BJ					100	UT	40812	X	X	X	AH-24 And 1 FT Of 024 And 025
14-028	Pipe To RV Nozzle Circ Seam	B9.11.13	BJ					100	MT	NA	X	X	X	CCA-1-6 Exemption Requested
14-028	Pipe To RV Nozzle Circ Seam	B9.11.13	BJ					100	UT	40812	X	X	X	CCA-1-6 Remote During RV Weld Exam Catagory B-D
14-029	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
14-030	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro Test

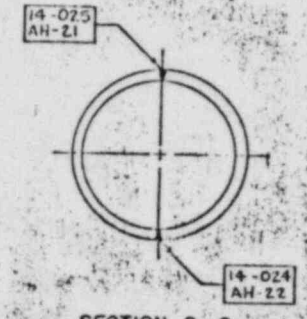




SECTION A-A



SECTION B-B



SECTION C-C

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0	[illegible]	ISSUED FOR ISI	[illegible]

SCALE NONE DESIGN CE DRAWN [illegible]

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

A HOT LEG FROM
REACTOR VESSEL TO
STEAM GENERATOR A
ZONE 14

DRAWING NO. ISI-114 REV. 1

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-15

COMPONENT DESCRIPTION

B REACTOR COOLANT-HOT LEG

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
15-001	Stm Gen To Pipe Circ Seam	B9.11.1	BJ					100	PT	NA	X	X	X	CCA-1-1
15-001	Stm Gen To Pipe Circ Seam	B9.11.1	BJ					100	UT	40812	X	X	X	CCA-1-1
15-002	Pipe To Ell Circ Seam	B9.11.2	BJ					100	MT	NA	X	X	X	BH-1 And 1 FT Of 003 And 004
15-002	Pipe To Ell Circ Seam	B9.11.2	BJ					100	UT	40812	X	X	X	BH-1 And 1 FT Of 003 And 004
15-003	Ell Inside Long Seam	B9.12.1	BJ					100	UT	40812	X	X	X	BH-2
15-003	Ell Inside Long Seam	B9.12.1	BJ					100	MT	NA	X	X	X	BH-2
15-004	Ell Outside Long Seam	B9.12.2	BJ					100	UT	40812	X	X	X	BH-3
15-004	Ell Outside Long Seam	B9.12.2	BJ					100	MT	NA	X	X	X	BH-3
15-005	Pipe To Nozzle Branch DMW	B5.50.1	BF	X				100	PT	NA	X	X	X	BH-5
15-005	Pipe To Nozzle Branch DMW	B5.50.1	BF	X				100	UT	40812	X	X	X	BH-5
15-006	Ell To Ell Circ Seam	B9.11.3	BJ					100	MT	NA	X	X	X	And 1 FT Of 003 And 004 And 006 And 007
15-006	Ell To Ell Circ Seam	B9.11.3	BJ					100	UT	40812	X	X	X	And 1 FT Of 003 And 004 And 006 And 007
15-007	Ell Inside Long Seam	B9.12.3	BJ		X			100	MT	NA	X	X	X	BH-6
15-007	Ell Inside Long Seam	B9.12.3	BJ		X			100	UT	40812	X	X	X	BH-6
15-008	Ell Outside Long Seam	B9.12.4	BJ		X			100	MT	NA	X	X	X	BH-7
15-008	Ell Outside Long Seam	B9.12.4	BJ		X			100	UT	40812	X	X	X	BH-7
15-009	Ell To Pipe Circ Seam	B9.11.4	BJ		X			100	MT	NA	X	X	X	BH-8 And 1 FT Of 006 And 007
15-009	Ell To Pipe Circ Seam	B9.11.4	BJ		X			100	UT	40812	X	X	X	BH-8 And 1 FT Of 006 And 007
15-010	Pipe To Nozzle Branch DMW	B5.50.2	BF	X				100	PT	NA	X	X	X	BH-9
15-010	Pipe To Nozzle Branch DMW	B5.50.2	BF	X				100	UT	40812	X	X	X	BH-9
15-011	Pipe To Nozzle Branch DMW	B5.50.3	BF			X		100	PT	NA	X	X	X	BH-10
15-011	Pipe To Nozzle Branch DMW	B5.50.3	BF			X		100	UT	40812	X	X	X	BH-10
15-012	Pipe To Rte Nozzle Branch DMW	B5.50.4	BF	X				100	PT	NA	X	X	X	BH-11
15-012	Pipe To Rte Nozzle Branch DMW	B5.50.4	BF	X				100	UT	40812	X	X	X	BH-11
15-013	Pipe To Rte Nozzle Branch DMW	B5.50.5	BF			X		100	PT	NA	X	X	X	BH-12
15-013	Pipe To Rte Nozzle Branch DMW	B5.50.5	BF			X		100	UT	40812	X	X	X	BH-12
15-014	Pipe To Pipe Circ Seam	B9.11.5	BJ			X		100	MT	NA	X	X	X	BH-13
15-014	Pipe To Pipe Circ Seam	B9.11.5	BJ			X		100	UT	40812	X	X	X	BH-13
15-015	Pipe To Pipe Circ Seam	B9.11.6	BJ				X	100	MT	NA	X	X	X	
15-015	Pipe To Pipe Circ Seam	B9.11.6	BJ				X	100	UT	40812	X	X	X	
15-016	Pipe To Nozzle Branch DMW	B5.50.6	BF				X	100	PT	NA	X	X	X	BH-15
15-016	Pipe To Nozzle Branch DMW	B5.50.6	BF				X	100	UT	40812	X	X	X	BH-15
15-017	Pipe To Nozzle Branch DMW	B5.50.7	BF				X	100	PT	NA	X	X	X	BH-16

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-15

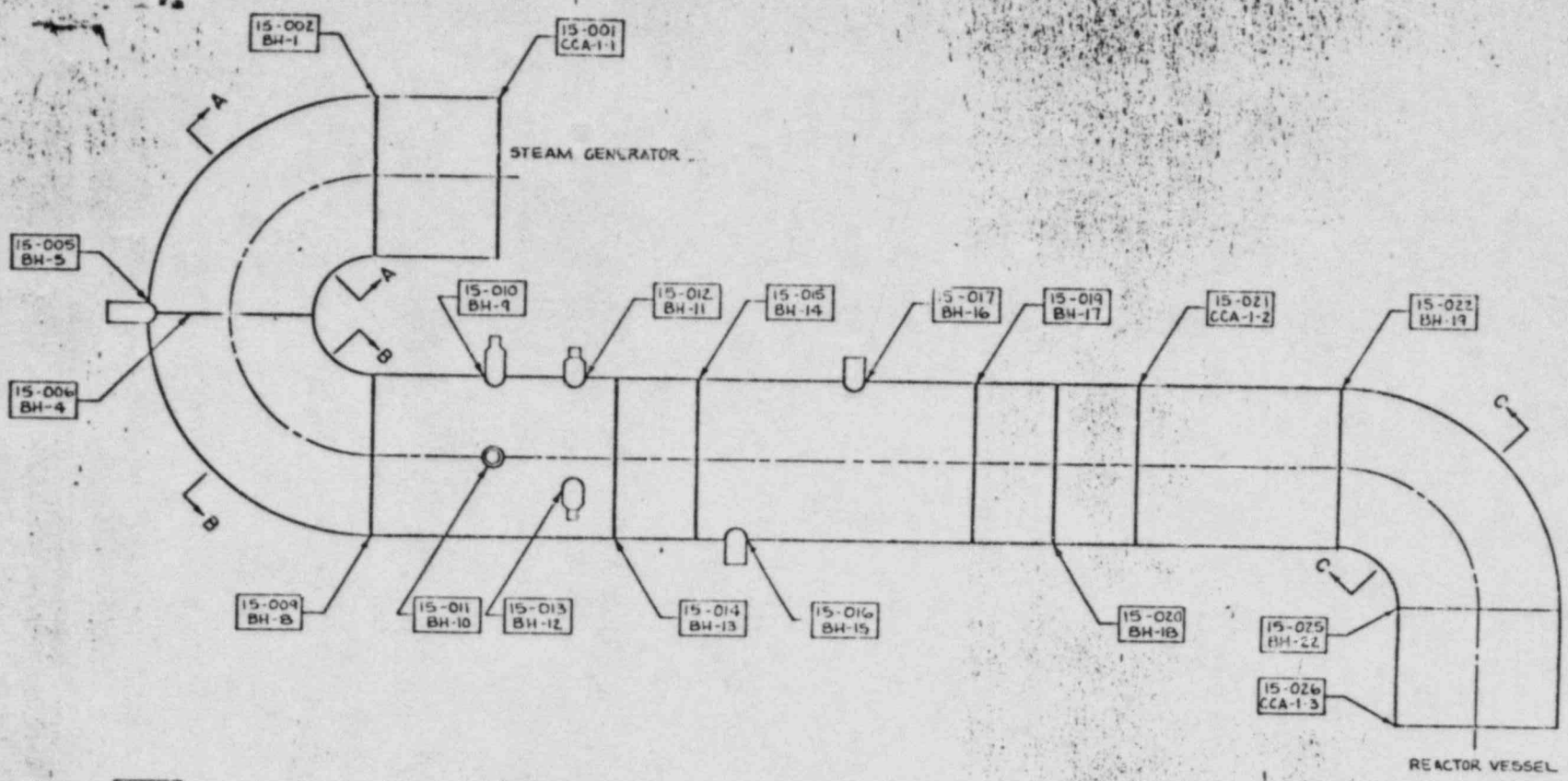
COMPONENT DESCRIPTION

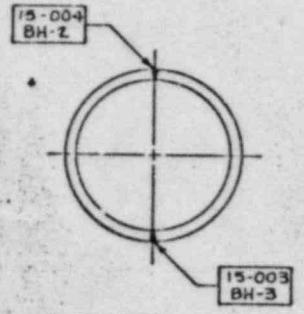
B REACTOR COOLANT-HOT LEG

REVISED 12/01/83

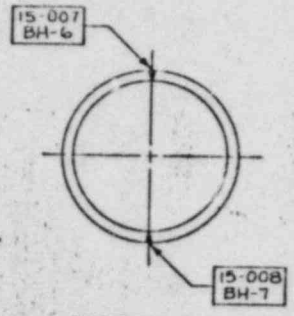
CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
15-017	Pipe To Nozzle Branch DMW	B5.50.7	BF			X		100	UT	40812	X	X	X	BH-16
15-018	Pipe To Pipe Circ Seam	B9.11.7	BJ					100	MT	NA	X	X	X	
15-018	Pipe To Pipe Circ Seam	B9.11.7	BJ					100	UT	40812	X	X	X	
15-019	Pipe To Pipe Circ Seam	B9.11.8	BJ					100	MT	NA	X	X	X	BH-17
15-019	Pipe To Pipe Circ Seam	B9.11.8	BJ					100	UT	40812	X	X	X	BH-17
15-020	Pipe To Pipe Circ Seam	B9.11.9	BJ					100	MT	NA	X	X	X	BH-18
15-020	Pipe To Pipe Circ Seam	B9.11.9	BJ					100	UT	40812	X	X	X	BH-18
15-021	Pipe To Pipe Circ Seam	B9.11.10	BJ					100	MT	NA	X	X	X	CCA-1-2
15-021	Pipe To Pipe Circ Seam	B9.11.10	BJ					100	UT	40812	X	X	X	CCA-1-2
15-022	Pipe To Ell Circ Seam	B9.11.11	BJ					100	MT	NA	X	X	X	BH-19 And 1 FT Of 023 And 024
15-022	Pipe To Ell Circ Seam	B9.11.11	BJ					100	UT	40812	X	X	X	BH-19 And 1 FT Of 023 And 024
15-023	Ell Inside Long Seam	B9.12.5	BJ					100	MT	NA	X	X	X	BH-20
15-023	Ell Inside Long Seam	B9.12.5	BJ					100	UT	40812	X	X	X	BH-20
15-024	Ell Outside Long Seam.	B9.12.6	BJ					100	MT	NA	X	X	X	BH-21
15-024	Ell Outside Long Seam	B9.12.6	BJ					100	UT	40812	X	X	X	BH-21
15-025	Ell To Pipe Circ Seam	B9.11.12	BJ					100	MT	NA	X	X	X	BH-22 And 1 FT Of 023 And 024
15-025	Ell To Pipe Circ Seam	B9.11.12	BJ					100	UT	40812	X	X	X	BH-22 And 1 FT Of 023 And 024
15-026	Pipe To RV Nozzle Circ Seam	B9.11.13	BJ					100	MT	NA	X	X	X	CCA-1-3 Exemption Requested
15-026	Pipe To RV Nozzle Circ Seam	B9.11.13	BJ					100	UT	40812	X	X	X	CCA-1-3 Remote During RV Weld Exams Catagory B-D
15-027	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
15-028	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro Test





SECTION A-A



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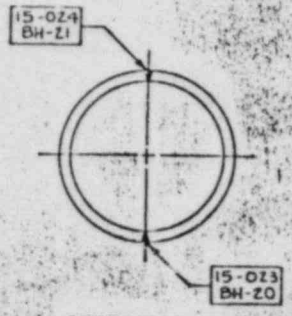


SECTION C-C

NO.	DATE	REVISION	BY	CHK	ENG	SUPV
1	5/24	REISSUED PER ISI	TLP	WLC	DP	
0	5/80	ISSUED PER	TS			

SCALE NONE | DESIGN CE | DRAWN B BROCK

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

B HOT LEG FROM REACTOR VESSEL TO STEAM GENERATOR B
ZONE 15

DRAWING NO	REV.
ISI-115	1

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 16

COMPONENT DESCRIPTION

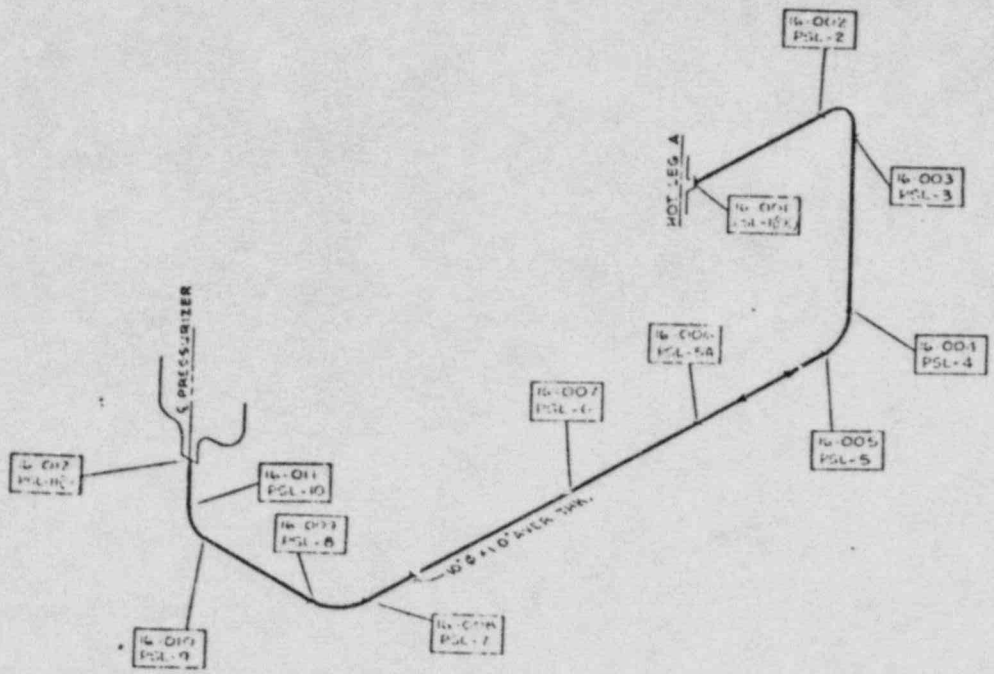
PRESSURIZER SURGE LINE CCA-2-10"

REVISED 12/01/83

PAGE- 1 of

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
16-001	Nozzle To Pipe SE Circ Seam	B5.50.1	BF			X		100	PT	NA	X	X	X	PSL-1
16-001	Nozzle To Pipe SE Circ Seam	B5.50.1	BF			X		100	UT	40814	X	X	X	PSL-1
16-002	Pipe To Ell Circ Seam	B9.11.1	BJ					100	PT	NA	X	X	X	PSL-2
16-002	Pipe To Ell Circ Seam	B9.11.2	BJ					100	UT	40814	X	X	X	PSL-2
16-003	Ell To Pipe Circ Seam	B9.11.3	BJ					100	PT	NA	X	X	X	PSL-3
16-003	Ell To Pipe Circ Seam	B9.11.3	BJ					100	UT	40814	X	X	X	PSL-3
16-004	Pipe To Ell Circ Seam	B9.11.4	BJ					100	PT	NA	X	X	X	PSL-4
16-004	Pipe To Ell Circ Seam	B9.11.4	BJ					100	UT	40814	X	X	X	PSL-4
16-005	Ell To Pipe Circ Seam	B9.11.5	BJ					100	PT	NA	X	X	X	PSL-5
16-005	Ell To Pipe Circ Seam	B9.11.5	BJ					100	UT	40814	X	X	X	PSL-5
16-006	Pipe To Pipe Circ Seam	B9.11.6	BJ					100	PT	NA	X	X	X	PSL-5A
16-006	Pipe To Pipe Circ Seam	B9.11.6	BJ					100	UT	40814	X	X	X	PSL-5A
16-007	Pipe To Pipe Circ Seam	B9.11.7	BJ					100	PT	NA	X	X	X	PSL-6
16-007	Pipe To Pipe Circ Seam	B9.11.7	BJ					100	UT	40814	X	X	X	PSL-6
16-008	Pipe To Ell Circ Seam	B9.11.8	BJ					100	PT	NA	X	X	X	PSL-7
16-008	Pipe To Ell Circ Seam	B9.11.8	BJ					100	UT	40814	X	X	X	PSL-7
16-009	Ell To Pipe Circ Seam	B9.11.9	BJ		X			100	PT	NA	X	X	X	PSL-8
16-009	Ell To Pipe Circ Seam	B9.11.9	BJ		X			100	UT	40814	X	X	X	PSL-8
16-010	Pipe To Ell Circ Seam	B9.11.10	BJ			X		100	PT	NA	X	X	X	PSL-9
16-010	Pipe To Ell Circ Seam	B9.11.10	BJ			X		100	UT	40814	X	X	X	PSL-9
16-011	Ell To Pipe Circ Seam	B9.11.11	BJ	X				100	PT	NA	X	X	X	PSL-10
16-011	Ell To Pipe Circ Seam	B9.11.11	BJ	X				100	UT	40814	X	X	X	PSL-10
16-012	Pipe To Nozzle SE Circ Seam	B5.50.2	BF					100	PT	NA	X	X	X	PSL-11
16-012	Pipe To Nozzle SE Circ Seam	B5.50.2	BF					100	UT	40814	X	X	X	PSL-11
16-013	Hydraulic Snubber HS-100	F-4	F-C					100	VT-4	NA	X	X	X	
16-014	Hydraulic Snubber HS-101	F-4	F-C	X				100	VT-4	NA	X	X	X	
16-015	Hydraulic Snubber HS-102	F-4	F-C		X			100	VT-4	NA	X	X	X	
16-016	Pressure Retaining Boundry	B15.50	BP	X	X	X		100	VT-2	NA	NA	NA	NA	System Leakage Test
16-017	Pressure Retaining Boundry	B15.51	BP			X		100	VT-2	NA	NA	NA	NA	System Hydro Test



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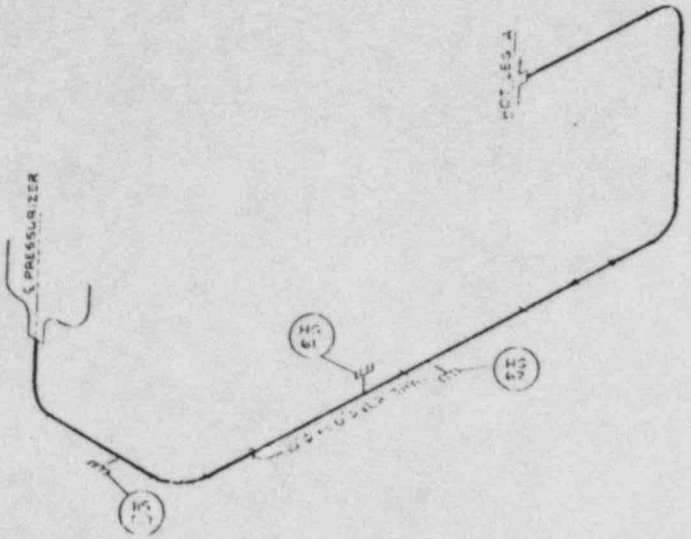
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

PRESSURIZER SURGE
ZONE 16

DRAWING NO	REV.
ISI-116	0



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

PRESSURIZER SURGE
ZONE 16

ISI-116H | 0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 17

COMPONENT DESCRIPTION

DECAY HEAT REMOVAL CCA-8-12"

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
H7-001	Pipe To Valve Circ Seam	B9.11.1	BJ					100	PT	NA	X	X	X	DH-1
H7-001	Pipe To Valve Circ Seam	B9.11.1	BJ					100	UT	40846	X	X	X	DH-1
H7-002	Pipe To Pipe Circ Seam	B9.11.2	BJ		X			100	PT	NA	X	X	X	DH-1A
H7-002	Pipe To Pipe Circ Seam	B9.11.2	BJ		X			100	UT	40846	X	X	X	DH-1A
H7-003	Pipe To Valve Circ Seam	B9.11.3	BJ		X			100	PT	NA	X	X	X	DH-2
H7-003	Pipe to Valve Circ Seam	B9.11.3	BJ		X			100	UT	40846	X	X	X	DH-2
H7-004	Valve To Pipe Circ Seam	B9.11.4	BJ			X		100	PT	NA	X	X	X	DH-3
H7-004	Valve To Pipe Circ Seam	B9.11.4	BJ			X		100	UT	40846	X	X	X	DH-3
H7-005	Pipe To Pipe Circ Seam	B9.11.5	BJ				X	100	PT	NA	X	X	X	DH-3A
H7-005	Pipe To Pipe Circ Seam	B9.11.5	BJ				X	100	UT	40846	X	X	X	DH-3A
H7-006	Pipe To Ell Circ Seam	B9.11.6	BJ					100	PT	NA	X	X	X	DH-4
H7-006	Pipe To Ell Circ Seam	B9.11.6	BJ					100	UT	40846	X	X	X	DH-4
H7-007	Ell To Pipe Circ Seam	B9.11.7	BJ					100	PT	NA	X	X	X	DH-5
H7-007	Ell To Pipe Circ Seam	B9.11.7	BJ					100	UT	40846	X	X	X	DH-5
H7-008	Pipe To Ell Circ Seam	B9.11.8	BJ					100	PT	NA	X	X	X	DH-6
H7-008	Pipe To Ell Circ Seam	B9.11.8	BJ					100	UT	40846	X	X	X	DH-6
H7-009	Ell To Pipe Circ Seam	B9.11.9	BJ					100	PT	NA	X	X	X	DH-7
H7-009	Ell To Pipe Circ Seam	B9.11.9	BJ					100	UT	40846	X	X	X	DH-7
H7-010	Pipe To Ell Circ Seam	B9.11.10	BJ					100	PT	NA	X	X	X	DH-8
H7-010	Pipe To Ell Circ Seam	B9.11.10	BJ					100	UT	40846	X	X	X	DH-8
H7-011	Ell To Pipe Circ Seam	B9.11.11	BJ					100	PT	NA	X	X	X	DH-9
H7-011	Ell To Pipe Circ Seam	B9.11.11	BJ					100	UT	40846	X	X	X	DH-9
H7-012	Pipe To Ell Circ Seam	B9.11.12	BJ					100	PT	NA	X	X	X	DH-10
H7-012	Pipe To Ell Circ Seam	B9.11.12	BJ					100	UT	40846	X	X	X	DH-10
H7-013	Ell To Ell Circ Seam	B9.11.13	BJ					100	PT	NA	X	X	X	DH-11
H7-013	Ell To Ell Circ Seam	B9.11.13	BJ					100	UT	40846	X	X	X	DH-11
H7-014	Ell To Pipe Circ Seam	B9.11.14	BJ					100	PT	NA	X	X	X	DH-12
H7-014	Ell To Pipe Circ Seam	B9.11.14	BJ					100	UT	40846	X	X	X	DH-12
H7-015	Pipe To Pipe Circ Seam	B9.11.15	BJ					100	PT	NA	X	X	X	DH-13
H7-015	Pipe to Pipe Circ Seam	B9.11.15	BJ					100	UT	40846	X	X	X	DH-13
H7-016	Pipe To Ell Circ Seam	B9.11.16	BJ					100	PT	NA	X	X	X	DH-14
H7-016	Pipe to Ell Circ Seam	B9.11.16	BJ					100	UT	40846	X	X	X	DH-14
H7-017	Ell To Hot Leg SE Circ Seam	B5.50.1	BF	X				100	PT	NA	X	X	X	DH-15SE

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 17

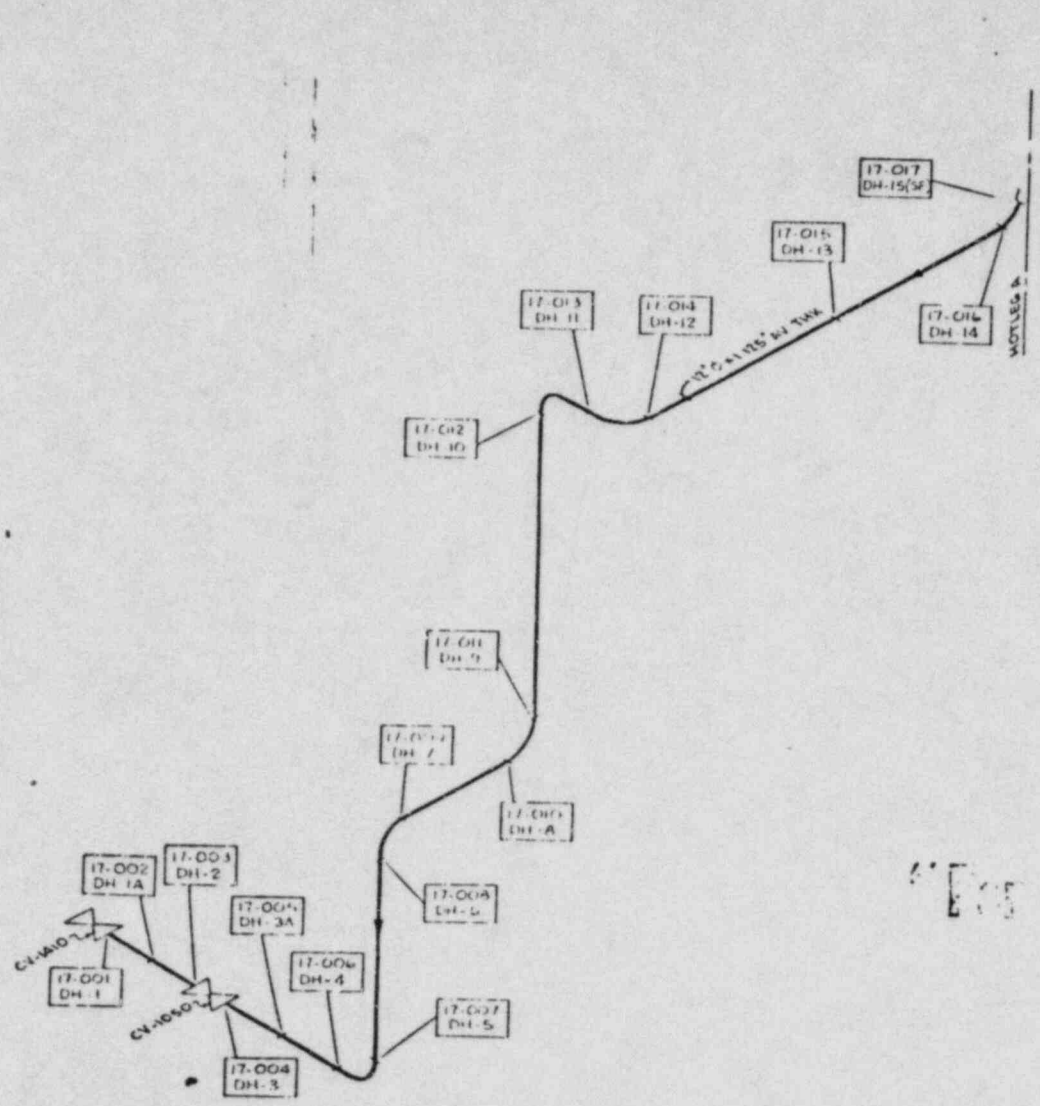
COMPONENT DESCRIPTION

DECAY HEAT REMOVAL CCA-8-12"

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B7-017	11 To Hot Leg SE Circ Seam	B5.50.1	BF	X				100	UT	40846	X	X	X	DH-15SE
B7-018	12" Valve CV-1410	B12.40.1	BM2			X		100	VT-3	NA	X	X	NA	
B7-019	12" Valve CV-1050	B12.40.2	BM2	NOT REQ.				100	VT-3	NA	X	X	NA	
B7-020	Valve CV-1410 Bolts	B7.70.1	BG2			X		100	VT-1	NA	X	X	X	All Bolts Inplace
B7-021	Valve CV-1410 Bolts	B7.70.2	BG2			X		100	VT-1	NA	X	X	X	All Bolts Removed
B7-022	Valve CV-1410 Bolts	B7.70.3	BG2			X		100	VT-1	NA	X	X	X	All Bolts Removed
B7-022F	Valve Flange Surface	B7.70.4	BG2			X		100	VT-1	NA	X	X	X	
B7-023	P34A DHR Pump	B12.40.1	BL2			X		100	VT-3	NA	NA	NA	NA	Internal Surface
B7-024	P34B DHR Pump	B12.40.2	BL2	NOT REQ.				100	VT-3	NA	NA	NA	NA	Internal Surface
B7-025	Pump P34A Bolts	B6.180.1	BG1			X		100	UT		NA	NA	X	All Bolts
B7-026	Pump P34A Nuts & Washers	B6.200.1	BG1			X		100	VT-1	NA	NA	NA	X	All Nuts & Washers
B7-027	Pump P34A Flange Surface	B6.190.1	BG1			X		100	VT-1	NA	NA	NA	X	
B7-028	Pump P34B Bolts	B6.180.2	BG1	NOT REQ.				100	UT		NA	NA	X	All Bolts
B7-029	Pump P34B Nuts & Washers	B6.200.2	BG1	NOT REQ.				100	VT-1	NA	NA	NA	X	All Nuts & Washers
B7-030	Pump P34B Flange Surface	B6.190.2	BG1	NOT REQ.				100	VT-1	NA	NA	NA	X	
B7-031	Guide Stop DH-157	B10.10.1		X				100	UT PT		NA	NA	NA	SK#1-800
B7-032	Spring Hanger DH-159	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-805
B7-033	Spring Hanger DH-158	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-803
B7-034	Guide Stop DH-157	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-800
B7-035	Spring Hanger DH-160	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-807
B7-036	Guide DH-161	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-808
B7-037	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B7-038	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro-Test
B7-039	Pressure Retaining Boundry	B15.60	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B7-040	Pressure Retaining Boundry	B15.61	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro-Test
B7-041	Pressure Retaining Boundry	B15.70	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B7-042	Pressure Retaining Boundry	B15.71	BP				X	100	VT-2	NA	NA	NA	NA	System Hydro-Test



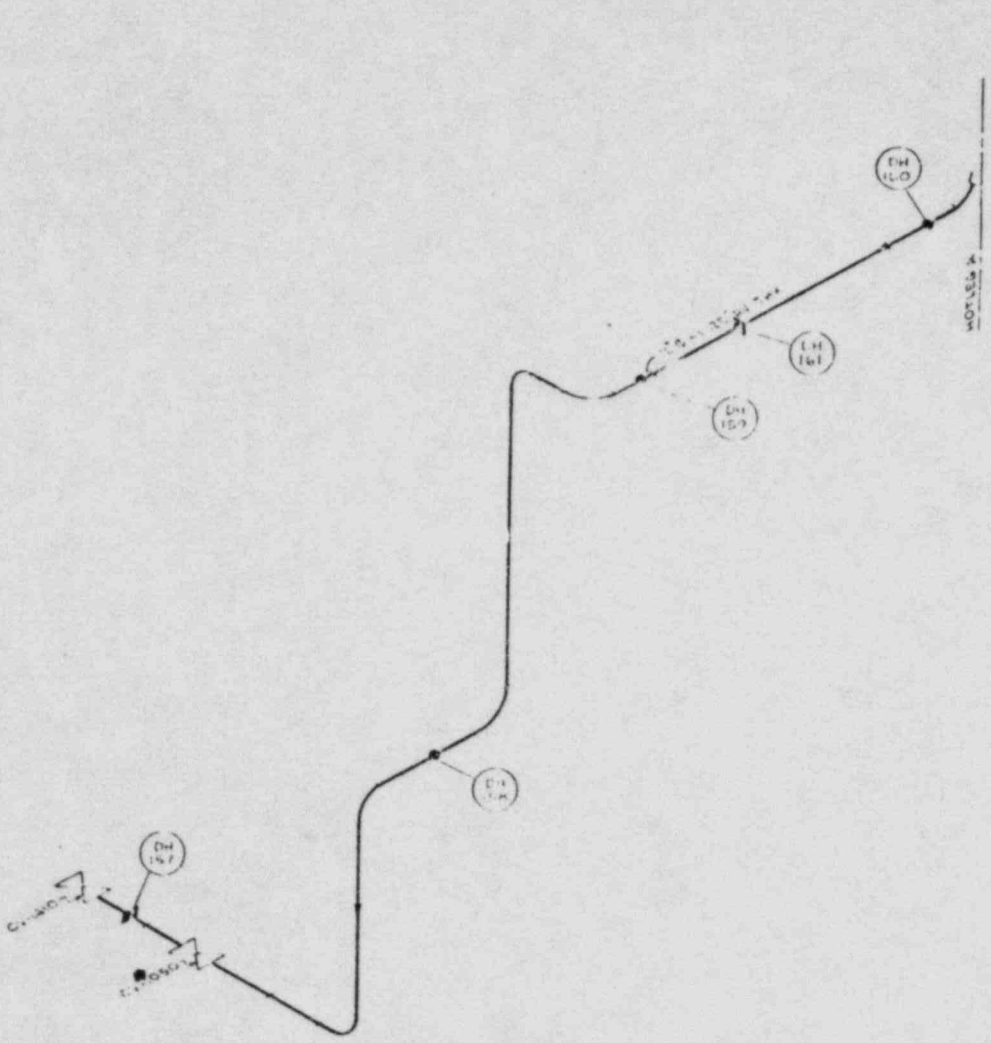
NO	DATE	REVISION	BY	CHK'D	APP'D
0	7/81	ISSUED PER I.S.I.	HJ	JJ	

SCALE — | DES. IN B.B.W. | DRAWN R. JONES

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

DECAY HEAT
ZONE 17

DRAWING NO. ISI-117 | REV. 0



FOR INFORMATION ONLY

FOR USE, VERIFY

INFORMATION

ARKANSAS POWER & LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

DECAY HEAT
ZONE 17

A	1S1 - 1171	0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-18

COMPONENT DESCRIPTION

PRESSURIZER SPRAY

REVISED 12/01/83

PAGE 1 of 3

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
18-001	Nozzle To Pipe SE Circ Seam	B5.50.1	BF	X				100	PT	NA	X	X	X	SL-1
18-001	Nozzle To Pipe SE Circ Seam	B5.50.1	BF	X				100	UT	40818	X	X	X	SL-1
18-002	Pipe To Ell Circ Seam	B9.11.1	BJ					100	PT	NA	X	X	X	SL-2
18-002	Pipe To Ell Circ Seam	B9.11.1	BJ					100	UT	40813	X	X	X	SL-2
18-003	Ell To Reducer Circ Seam	B9.11.2	BJ					100	PT	NA	X	X	X	SL-3
18-003	Ell To Reducer Circ Seam	B9.11.2	BJ					100	UT	40813	X	X	X	SL-3
18-004	Reducer To Pipe Circ Seam	B9.11.3	BJ					100	PT	NA	X	X	X	SL-3A
18-004	Reducer To Pipe Circ Seam	B9.11.3	BJ					100	UT	40813	X	X	X	SL-3A
18-005	Pipe To Tee Circ Seam	B9.11.4	BJ		X			100	PT	NA	X	X	X	SL-4
18-005	Pipe To Tee Circ Seam	B9.11.4	BJ		X			100	UT	40813	X	X	X	SL-4
18-006	Tee To Reducer Circ Seam	B9.11.5	BJ					100	PT	NA	X	X	X	SL-5A
18-006	Tee To Reducer Circ Seam	B9.11.5	BJ					100	UT	40813	X	X	X	SL-5A
18-007	Reducer To Pipe Circ Seam	B9.11.6	BJ		X			100	PT	NA	X	X	X	SL-5B
18-007	Reducer To Pipe Circ Seam	B9.11.6	BJ		X			100	UT	40813	X	X	X	SL-5B
18-008	Tee To Ell Circ Seam	B9.11.7	BJ					100	PT	NA	X	X	X	SL-6
18-008	Tee To Ell Circ Seam	B9.11.7	BJ					100	UT	40813	X	X	X	SL-6
18-009	Ell To Pipe Circ Seam	B9.11.8	BJ					100	PT	NA	X	X	X	SL-7
18-009	Ell To Pipe Circ Seam	B9.11.8	BJ					100	UT	40813	X	X	X	SL-7
18-010	Pipe to Valve Circ Seam	B9.11.9	BJ					100	PT	NA	X	X	X	SL-8
18-010	Pipe To Valve Circ Seam	B9.11.9	BJ					100	UT	40813	X	X	X	SL-8
18-011	Valve To Tee Circ Seam	B9.11.10	BJ					100	PT	NA	X	X	X	SL-9
18-011	Valve To Tee Circ Seam	B9.11.10	BJ					100	UT	40813	X	X	X	SL-9
18-012	Tee To Reducer Circ Seam	B9.11.11	BJ					100	PT	NA	X	X	X	SL-10
18-012	Tee To Reducer Circ Seam	B9.11.11	BJ					100	UT	40813	X	X	X	SL-10
18-013	Tee To Pipe Circ Seam	B9.11.12	BJ					100	PT	NA	X	X	X	SL-11
18-013	Tee To Pipe Circ Seam	B9.11.12	BJ					100	UT	40813	X	X	X	SL-11
18-014	Pipe To Pipe Circ Seam	B9.11.13	BJ					100	PT	NA	X	X	X	SL-12
18-014	Pipe To Pipe Circ Seam	B9.11.13	BJ					100	UT	40813	X	X	X	SL-12
18-015	Pipe To Valve Circ Seam	B9.11.14	BJ					100	PT	NA	X	X	X	SL-12A
18-015	Pipe To Valve Circ Seam	B9.11.14	BJ					100	UT	40813	X	X	X	SL-12A
18-016	Valve To Pipe Circ Seam	B9.11.15	BJ					100	PT	NA	X	X	X	SL-13
18-016	Valve To Pipe Circ Seam	B9.11.15	BJ					100	UT	40813	X	X	X	SL-13
18-017	Pipe To Ell Circ Seam	B9.11.16	BJ					100	PT	NA	X	X	X	SL-14

FORM ENG-011

REVISED 12/01/83

ANO-UNIT-ONE

PROGRAM PLAN AND SCHEDULE

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ZONE- 18

CLASS- 1

__ PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

PRESSURIZER SPRAY

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
P8-017	Pipe To Ell Circ Seam	B9.11.16	BJ					100	UT	40813	X	X	X	SL-14
P8-018	Ell To Tee Circ Seam	B9.11.17	BJ					100	PT	NA	X	X	X	SL-16
P8-018	Ell To Tee Circ Seam	B9.11.17	BJ					100	UT	40813	X	X	X	SL-16
P8-018A	Tee To Reducer Circ Seam	B9.11.18	BJ					100	PT	NA	X	X	X	SL-10M
P8-018A	Tee To Reducer Circ Seam	B9.11.18	BJ					100	UT	40813	X	X	X	SL-10M
P8-019	Tee To Pipe Circ Seam	B9.11.19	BJ					100	PT	NA	X	X	X	SL-17
P8-019	Tee To Pipe Circ Seam	B9.11.19	BJ					100	UT	40813	X	X	X	SL-17
P8-020	Pipe To Valve Circ Seam	B9.11.20	BJ					100	PT	NA	X	X	X	SL-18
P8-020	Pipe to Valve Circ Seam	B9.11.20	BJ					100	UT	40813	X	X	X	SL-18
P8-021	Valve To Pipe Circ Seam	B9.11.21	BJ					100	PT	NA	X	X		SL-19
P8-021	Valve To Pipe Circ Seam	B9.11.21	BJ					100	PT	NA	X	X		SL-19
P8-022	Pipe To Pipe Circ Seam	B9.11.22	BJ					100	PT	NA	X	X		SL-20
P8-022	Pipe To Pipe Circ Seam	B9.11.22	BJ					100	PT	NA	X	X		SL-20
P8-023	Pipe to Ell Circ Seam	B9.11.23	BJ					100	PT	NA	X	X		SL-21
P8-023	Pipe To Ell Circ Seam	B9.11.23	BJ					100	PT	NA	X	X		SL-21
P8-024	Ell To Pipe Circ Seam	B9.11.24	BJ					100	PT	NA	X	X		SL-22
P8-024	Ell To Pipe Circ Seam	B9.11.24	BJ					100	PT	NA	X	X		SL-22
P8-025	Pipe To Pipe Circ Seam	B9.11.25	BJ					100	PT	NA	X			SL-23
P8-025	Pipe To Pipe Circ Seam	B9.11.25	BJ					100	PT	NA	X			SL-23
P8-026	Pipe To P32C Disch Circ Seam	B9.11.26	BJ	X				100	PT	NA	X		X	SL-24
P8-026	Pipe To P32C Disch Circ Seam	B9.11.26	BJ	X				100	PT	NA	X		X	SL-24
P8-027	Pipe To Socket Weld Coupling	B9.40.1	BJ		X			100	PT	NA	X			LP-1
P8-028	Socket Weld Coupling To Pipe	B9.40.2	BJ		X			100	PT	NA	X			LP-2
P8-029	Pipe To Sock Weld Ell	B9.40.3	BJ			X		100	PT	NA	X		X	LP-3
P8-030	Sock Weld Ell To Pipe	B9.40.4	BJ			X		100	PT	NA	X			LP-4
P8-031	Pipe To Sock Weld Valve	B9.40.5	BJ				X	100	PT	NA	X		X	LP-5
P8-032	Sock Weld Valve To Pipe	B9.40.6	BJ				X	100	PT	NA	X			LP-6
P8-033	Pipe To Sock Weld Ell	B9.40.7	BJ					100	PT	NA	X			LP-7
P8-034	Sock Weld Ell To Pipe	B9.40.8	BJ					100	PT	NA	X			LP-8
P8-035	Pipe To Sock Weld Ell	B9.40.9	BJ					100	PT	NA	X		X	LP-9
P8-036	Sock Weld Ell To Pipe	B9.40.10	BJ					100	PT	NA	X		X	LP-10
P8-037	Pipe To Sock Weld Valve	B9.40.11	BJ					100	PT	NA	X		X	LP-11
P8-038	Pump P32C Casing	B12.20.1	BM2				X	100	VT-3	NA				

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-18

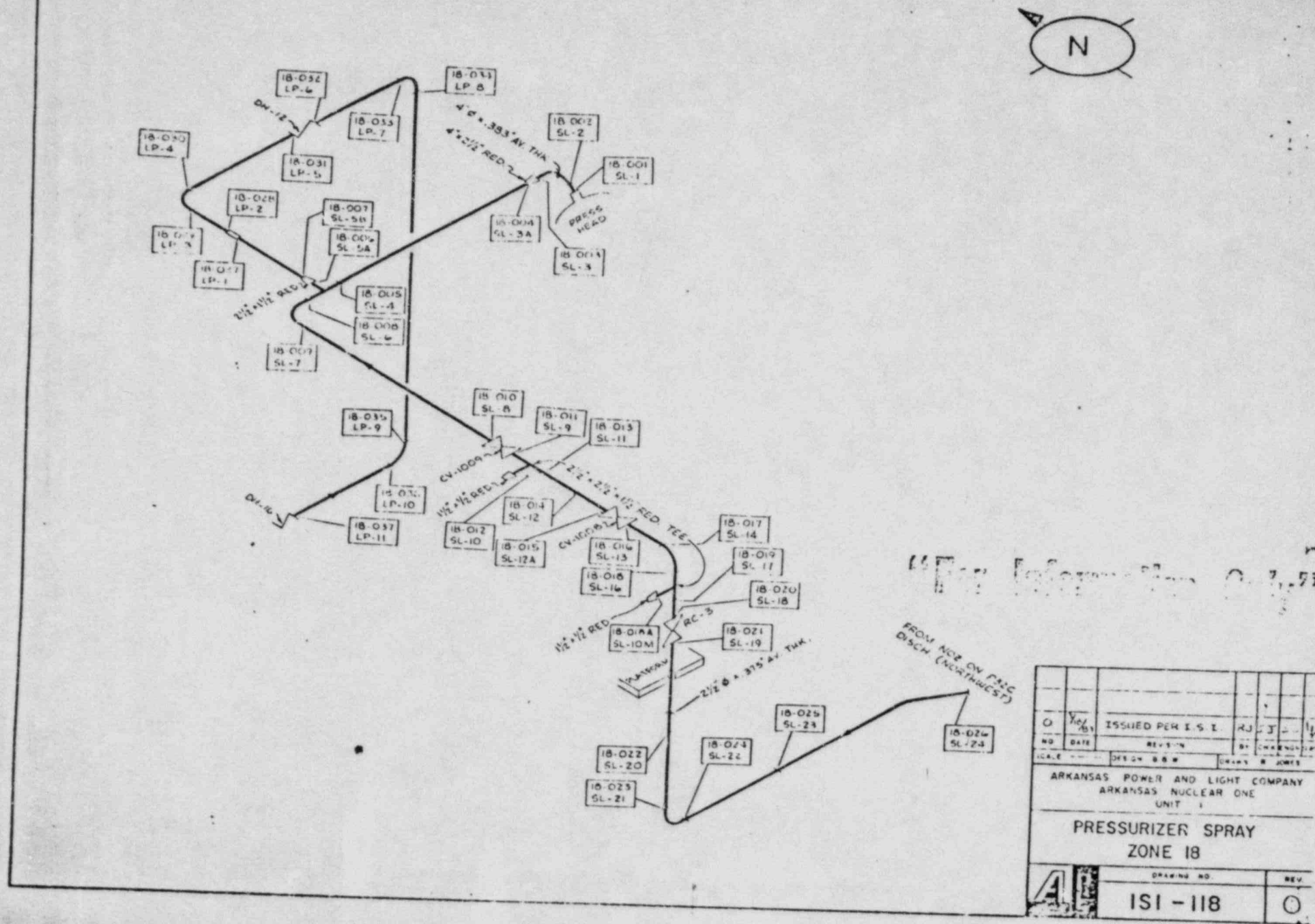
COMPONENT DESCRIPTION

PRESSURIZER SPRAY

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
18-039	Pump P32C Studs	B6.180.1 BM2			X		100	UT					
18-040	Pump P32C Flange Surfaces	B6.190.1 BM2			X		100	VT-1	NA				
18-041	Pump P32C Nuts & Washers	B6.200.1 BMT			X		100	VT-1	NA				
18-042	Hydraulic Snubber HS-8	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-408
18-043	Hydraulic Snubber HS-9	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-409
18-044	Hydraulic Snubber HS-51	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-401
18-045	Hydraulic Snubber HS-52	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-402
18-046	Hydraulic Snubber HS-53	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-404
18-047	Hydraulic Snubber HS-54	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-403
18-048	Hydraulic Snubber HS-55	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-406
18-049	Hydraulic Snubber HS-56	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-405
18-050	Hydraulic Snubber HS-57	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-407
18-051	Hydraulic Snubber HS-58	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-410
18-052	Hydraulic Snubber HS-59	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-411
18-053	Hydraulic Snubber HS-60	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#1-200
18-054	Hydraulic Snubber HS-61	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#1-201
18-055	Hydraulic Snubber HS-62	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#1-202
18-056	Hydraulic Snubber HS-63	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#1-415
18-057	Spring Hanger H-1	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	
18-058	Spring Hanger H-1	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	
18-059	Guide PG-11	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	
18-060	Pressure Retaining Boundry	B15.50	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
18-061	Pressure Retaining Boundry	B15.51				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
18-062	Pressure Retaining Boundry	B15.60	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
18-063	Pressure Retaining Boundry	B15.61				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
18-064	Pressure Retaining Boundry	B15.70	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
18-065	Pressure Retaining Boundry	B15.71				X	100	VT-2	NA	NA	NA	NA	System Hydrotest



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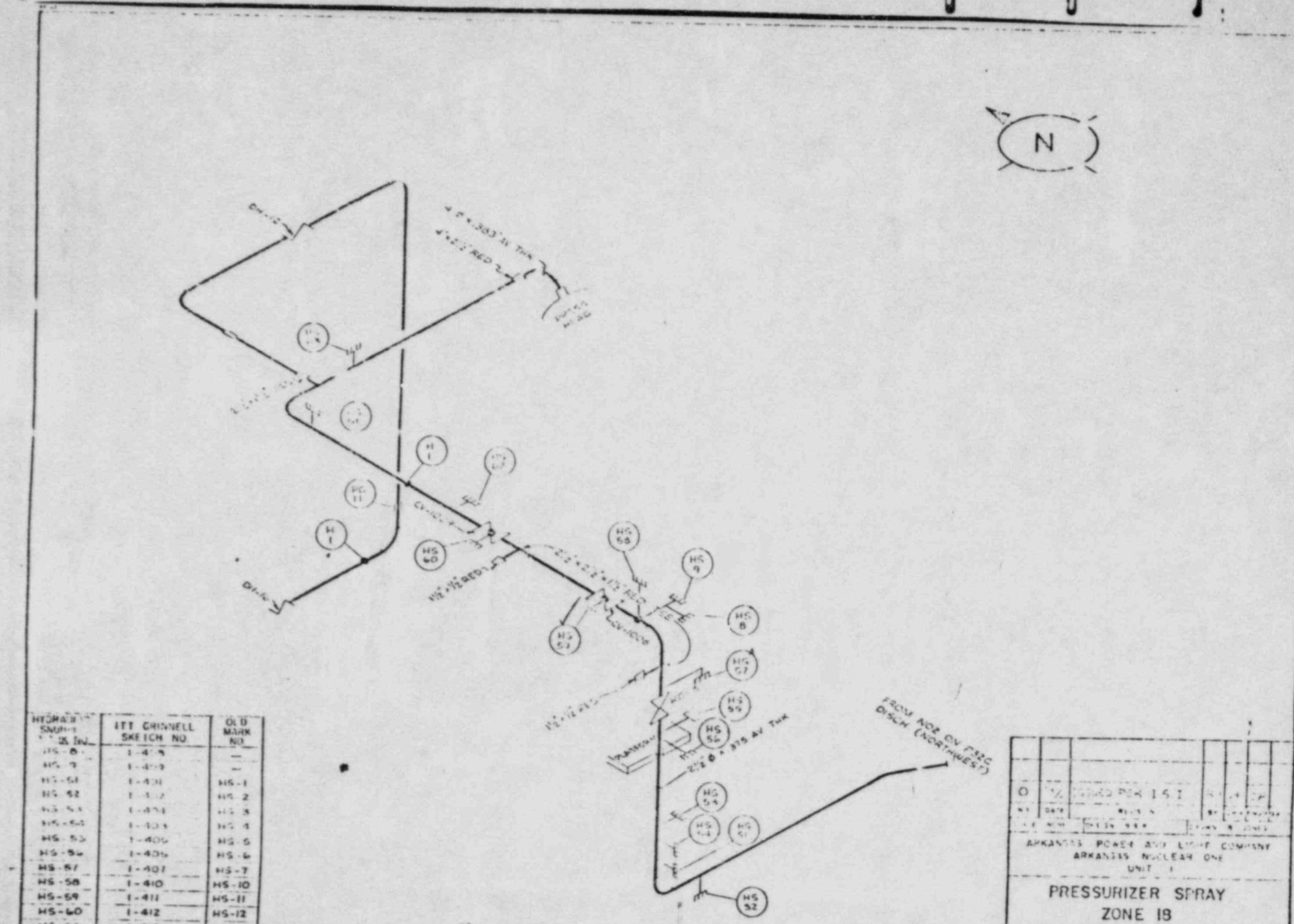
SCALE — DESIGN B.S.W. DRAWN R. JONES

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

PRESSURIZER SPRAY ZONE 18

DRAWING NO. ISI-118 REV. 0



HYDRAULIC SNUBBER 2½ IN.	ITT GRINNELL SKETCH NO.	OLD MARK NO.
HS-8	1-408	—
HS-9	1-409	—
HS-51	1-401	HS-1
HS-52	1-402	HS-2
HS-53	1-403	HS-3
HS-54	1-404	HS-4
HS-55	1-405	HS-5
HS-56	1-406	HS-6
HS-57	1-407	HS-7
HS-58	1-410	HS-10
HS-59	1-411	HS-11
HS-60	1-412	HS-12
HS-61	1-413	HS-13
HS-62	1-414	HS-14
HS-63	1-415	HS-15

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

PRESSURIZER SPRAY
ZONE 1B

DRAWING NO. 1SI-118H REV. 0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-19

COMPONENT DESCRIPTION

CORE FLOOD A & B CCA-6-14"

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
19-001B	Valve To Ell Circ Seam	B9.11.1 BJ					100	PT	NA				CFB-1
19-001B	Valve To Ell Circ Seam	B9.11.1 BJ					100	UT	40848				CFB-1
19-002B	Ell To Pipe Circ Seam	B9.11.2 BJ					100	PT	NA				CFB-2
19-002B	Ell To Pipe Circ Seam	B9.11.2 BJ					100	UT	40843				CFB-2
19-003B	Pipe To Tee Circ Weld	B9.11.3 BJ					100	PT	NA				CFB-3
19-003B	Pipe To Tee Circ Weld	B9.11.3 BJ					100	UT	40843				CFB-3
19-004B	Tee To Ell Circ Seam	B9.11.4 BJ					100	PT	NA				CFB-4
19-004B	Tee To Ell Circ Seam	B9.11.4 BJ					100	UT	40843				CFB-4
19-005B	Ell To Pipe Circ Seam	B9.11.5 BJ					100	PT	NA				CFB-5
19-005B	Ell To Pipe Circ Seam	B9.11.5 BJ					100	UT	40843				CFB-5
19-006B	Pipe To Valve Circ Seam	B9.11.6 BJ					100	PT	NA				CFB-6
19-006B	Pipe To Valve Circ Seam	B9.11.6 BJ					100	UT	40848				CFB-6
19-007B	Tee To Pipe Circ Seam	B9.11.7 BJ		X			100	PT	NA	X	X	X	CFB-7
19-007B	Tee To Pipe Circ Seam	B9.11.7 BJ		X			100	UT	40843	X	X	X	CFB-7
19-008B	Pipe To Pipe Circ Seam	B9.11.8 BJ					100	PT	NA				CFB-8
19-008B	Pipe To Pipe Circ Seam	B9.11.8 BJ					100	UT	40843				CFB-8
19-009B	Pipe To Tee Circ Seam	B9.11.9 BJ					100	PT	NA				CFB-9
19-009B	Pipe To Tee Circ Seam	B9.11.9 BJ					100	UT	40843				CFB-9
19-010B	Tee To Reducer Circ Seam	B9.11.10 BJ		X			100	PT	NA	X	X	X	CFB-11
19-010B	Tee To Reducer Circ Seam	B9.11.10 BJ		X			100	UT	40843	X	X	X	CFB-11
19-011B	Reducer To Valve Circ Seam	B9.11.11 BJ					100	PT	NA				CFB-10
19-011B	Reducer To Valve Circ Seam	B9.11.11 BJ					100	UT	40848				CFB-10
19-012B	Tee To Valve Circ Seam	B9.11.12 BJ					100	PT	NA				CFB-12
19-012B	Tee To Valve Circ Seam	B9.11.12 BJ					100	UT	40848				CFB-12
19-013B	Valve To Pipe Circ Seam	B9.11.13 BJ			X		100	PT	NA	X	X	X	CFB-13
19-013B	Valve To Pipe Circ Seam	B9.11.13 BJ			X		100	UT	40843	X	X	X	CFB-13
19-014B	Pipe To Pipe Circ Seam	B9.11.14 BJ			X		100	PT	NA	X	X	X	CFB-14
19-014B	Pipe To Pipe Circ Seam	B9.11.14 BJ			X		100	UT	40843	X	X	X	CFB-14
19-015B	Pipe To Ell Circ Seam	B9.11.15 BJ					100	PT	NA				CFB-15
19-015B	Pipe To Ell Circ Seam	B9.11.15 BJ					100	UT	40843				CFB-15
19-016B	Ell To Pipe Circ Seam	B9.11.16 BJ					100	PT	NA				CFB-16
19-016B	Ell To Pipe Circ Seam	B9.11.16 BJ					100	UT	40843				CFB-16
19-017B	Pipe To Ell Circ Seam	B9.11.17 BJ					100	PT	NA				CFB-17

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-19

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PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

CORE FLOOD A & B CCA-6-14"

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
19-017B	Pipe To Ell Circ Seam	B9.11.17 BJ					100	UT	40843				CFB-17
19-018B	Ell To Pipe Circ Seam	B9.11.18 BJ	X				100	PT	NA	X	X	X	CFB-18
19-018B	Ell To Pipe Circ Seam	B9.11.18 BJ	X				100	UT	40843	X	X	X	CFB-18
19-019B	Pipe To Pipe Circ Seam	B9.11.19 BJ					100	PT	NA				CFB-19
19-019B	Pipe To Pipe Circ Seam	B9.11.19 BJ					100	UT	40843				CFB-19
19-020B	Pipe To RV Noz SE Circ Seam	B5.50.1 BF	X				100	PT	NA	NA	NA	NA	Exemption Requested
19-020B	Pipe To RV Noz SE Circ Seam	B5.50.1 BF	X				100	UT	40904	NA	NA	NA	Remote Exam From I.D. Under Catagory B-D
19-021A	Pipe To RV Noz SE Circ Seam	B5.50.1 BF		X			100	PT	NA	X	X	X	Exemption Requested
19-021A	Pipe To RV Noz SE Circ Seam	B5.50.1 BF		X			100	UT	40904	X	X	X	Remote Exam From I.D. Under Catagory B-D
19-021B	24" Valve DH-14B	B12.40.1 BM2			X		100	VT-3	NA				
19-022A	Pipe To Pipe Circ Seam	B9.11.1 BJ					100	PT	NA				CFA-18
19-022A	Pipe To Pipe Circ Seam	B9.11.1 BJ					100	UT	40843				CFA-18
19-022A	8" Valve DH-18	B12.40.1 BM2			X		100	VT-3	NA	X	X	X	
19-022B	8" Valve DH-17	B12.40.2 BM2			X		100	VT-3	NA				
19-023A	Pipe To Ell Circ Seam	B9.11.2 BJ		X			100	PT	NA	X	X	X	CFA-17
19-023A	Pipe To Ell Circ Seam	B9.11.2 BJ		X			100	UT	40843	X	X	X	CFA-17
19-023A	8" Valve DH-13A	B12.40.2 BM2	NOT	RHQ			100	VT-3	NA				
19-023B	8" Valve DH-13B	B12.40.3 BM2	NOT	RHQ			100	VT-3	NA	NA	NA	NA	
19-024A	Ell To Pipe Circ Seam	B9.11.3 BJ					100	PT	NA				CFA-16
19-024A	Ell To Pipe Circ Seam	B9.11.3 BJ					100	MT	40843				CFA-16
19-024A	24" Valve DH-14A	B12.40.3 BM2			X		100	VT-3	NA	X	X	X	
19-024B	24" Valve CF-18	B12.40.4 BM2	NOT	RHQ			100	VT-3	NA	NA	NA	NA	
19-025A	Pipe To Ell Circ Seam	B9.11.4 BJ			X		100	PT	NA	X	X	X	CFA-15
19-025A	Pipe To Ell Circ Seam	B9.11.4 BJ			X		100	UT	40843	X	X	X	CFA-15
19-025A	24" Valve CF-1A	B12.40.4 BM2	NOT	RHQ			100	VT-3	NA				
19-025B	Valve DH-14B Bolts & Studs	B6.210.1 BGI			X		100	UT		NA	NA	X	All Bolts & Studs
19-026A	Ell To Pipe Circ Seam	B9.11.5 BJ					100	PT	NA				CFA-14
19-026A	Ell To Pipe Circ Seam	B9.11.5 BJ					100	UT	40843				CFA-14
19-026A	Valve DH-18 Bolts & Studs	B6.210.1 BGI	NOT	RHQ			100	UT		NA	NA	X	All Bolts
19-026B	Valve DH-14B Nuts & Washers	B6.230.1 BGI			X		100	VT-1	NA	NA	NA	X	All Nuts & Washers
19-027A	Pipe To Pipe Circ Seam	B9.11.6 BJ					100	PT	NA				CFA-13
19-027A	Pipe To Pipe Circ Seam	B9.11.6 BJ					100	UT	40843				CFA-13
19-027A	Valve DH-18 Nuts & Washers	B6.230.1 BGI	NOT	RHQ			100	VT-1	NA	NA	NA	X	All Nu's

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 19

COMPONENT DESCRIPTION

CORE FLOOD A & B CCA-6-14"

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
19-027B	Valve DH-17 Bolts & Studs	B6.210.2 BG1			X		100	UT		NA	NA	X	All Bolts & Studs
19-028A	Pipe To Valve Circ Seam	B9.11.7 BJ			X		100	PT	NA	X	X	X	CFA-12
19-028A	Pipe To Valve Circ Seam	B9.11.7 BJ			X		100	UT	40848	X	X	X	CFA-12
19-028A	Valve DH-13A Bolts & Studs	B6.210.2 BG1	NOT	REQ.			100	UT		NA	NA	X	All Bolts
19-028B	Valve DH-17 Nuts & Washers	B6.230.2 BG1			X		100	VT-1	NA	NA	NA	X	All Nuts & Washers
19-029A	Valve To Pipe Circ Seam	B9.11.8 BJ					100	PT	NA				CFA-11
19-029A	Valve To Pipe Circ Seam	B9.11.8 BJ					100	UT	40848				CFA-11
19-029A	Valve DH-13A Nuts & Washers	B6.230.2 BG1	NOT	REQ.			100	VT-1	NA	NA	NA	X	All Nuts
19-029B	Valve DH-13B Bolts & Studs	B6.210.3 BG1	NOT	REQ.			100	UT		NA	NA	X	All Bolts & Studs
19-030A	Pipe To Pipe Branch Circ Seam	B9.11.9 BJ					100	PT	NA				CFA-10
19-030A	Pipe To Pipe Branch Circ Seam	B9.11.9 BJ					100	UT	40843				CFA-10
19-030A	Valve DH-14A Bolts & Studs	B6.210.3 BG1			X		100	UT		NA	NA	X	All Bolts
19-030B	Valve DH-13B Nuts & Washers	B6.230.3 BG1	NOT	REQ.			100	VT-1	NA	NA	NA	X	All Nuts & Washers
19-031A	Pipe To Reducer Circ Seam	B9.11.10 BJ			X		100	PT	NA	X	X	X	CFA-9
19-031A	Pipe To Reducer Circ Seam	B9.11.10 BJ			X		100	UT	40843	X	X	X	CFA-9
19-031A	Valve DH-14A Nuts & Washers	B6.230.3 BG1			X		100	VT-1	NA	NA	NA	X	All Nuts
19-031B	Valve CF-1B Bolts & Studs	B6.210.4 BG1	NOT	REQ.			100	UT		NA	NA	X	All Bolts & Studs
19-032A	Reducer To Red Tee Circ Seam	B9.11.11 BJ					100	PT	NA				CFA-8
19-032A	Reducer To Red Tee Circ Seam	B9.11.11 BJ					100	UT	40843				CFA-8
19-032A	Valve CF-11 Bolts & Studs	B6.210.4 BG1			X		100	UT		NA	NA	X	All Bolts
19-032B	Valve CF-1B Nuts & Washers	B6.230.4 BG1	NOT	REQ.			100	VT-1	NA	NA	NA	X	All Nuts & Washers
19-033A	Red Tee To Valve Circ Seam	B9.11.12 BJ					100	UT	40843				CFA-7
19-033A	Valve CF-1A Nuts & Washers	B6.230.4 BG1			X		100	VT-1	NA	NA	NA	X	
19-033A	Red Tee To Valve Circ Seam	B9.11.12 BJ					100	PT	NA				CFA-7
19-033B	Valve DH-14B Flange	B6.220.1 BG1			X		100	VT-1	NA	NA	NA	X	
19-034A	Red Tee To Pipe Circ Seam	B9.11.13 BJ					100	PT	NA				CFA-6
19-034A	Red Tee To Pipe Circ Seam	B9.11.13 BJ					100	UT	40843				CFA-6
19-034A	Valve DH-18 Flange Surfaces	B6.220.1 BG1	NOT	REQ.			100	VT-1	NA	NA	NA	X	
19-034B	Valve DH-17 Flange	B6.220.2 BG1			X		100	VT-1	NA	NA	NA	X	
19-035A	Pipe To Ell Circ Seam	B9.11.14 BJ					100	PT	NA				CFA-5
19-035A	Pipe To Ell Circ Seam	B9.11.14 BJ					100	UT	40843				CFA-5
19-035A	Valve DH-13A Flange Surfaces	B6.220.2 BG1	NOT	REQ.			100	VT-1	NA	NA	NA	X	
19-035B	Valve DH-13B Flange	B6.220.3 BG1	NOT	REQ.			100	VT-1	NA	NA	NA	X	

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 19

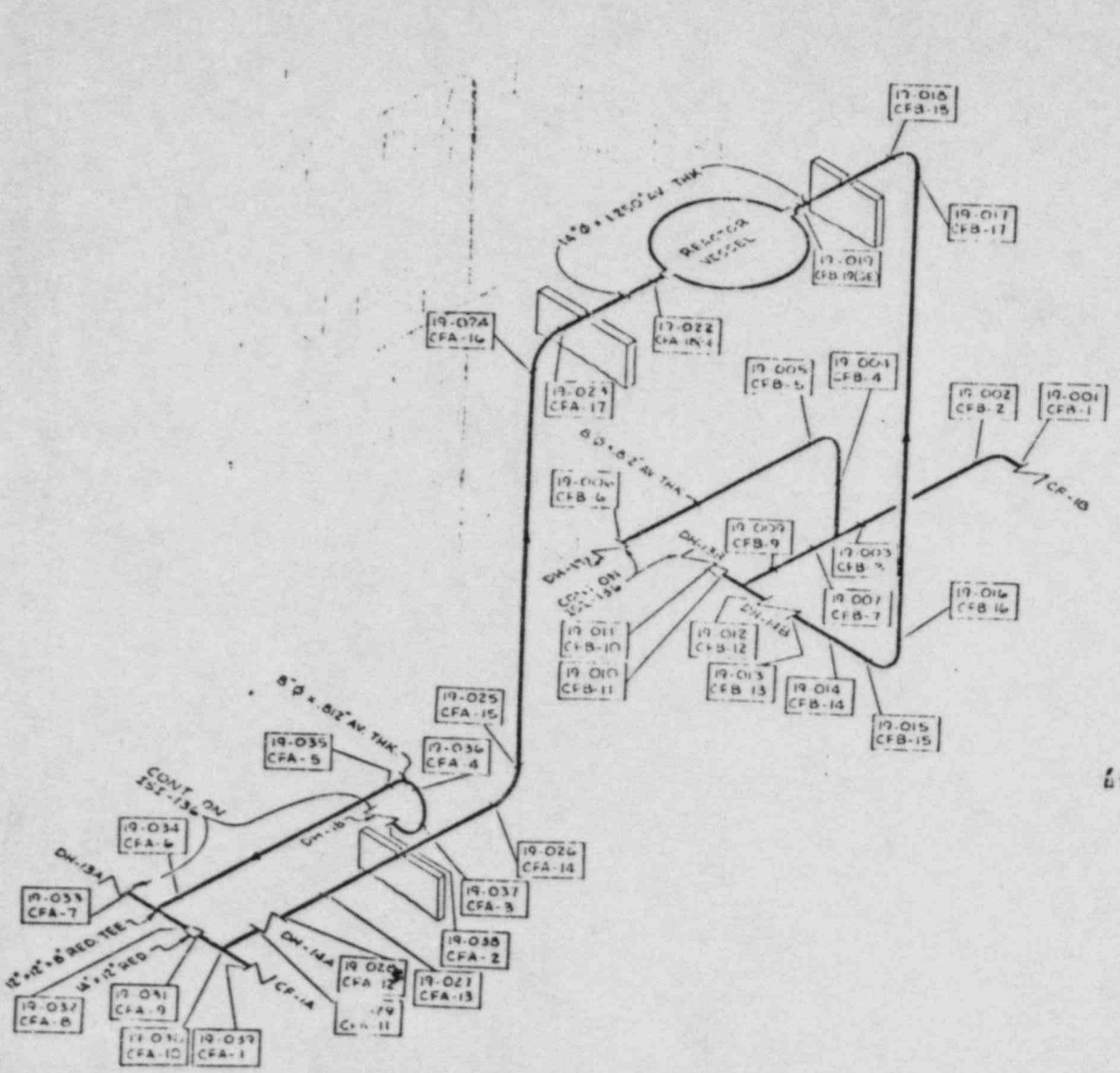
COMPONENT DESCRIPTION

CORE FLOOD A & B CCA-6-14"

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
19-036A	Ell To Pipe Circ Seam	B9.11.15	BJ					100	PT	NA				CFA-4
19-036A	Ell To Pipe Circ Seam	B9.11.15	BJ					100	UT	40843				CFA-4
19-036A	Valve DH-14A Flange Surfaces	B6.220.3	BG1			X		100	VT-1	NA	NA	NA	X	
19-036B	Valve CF-1B Flange	B6.220.4	BG1	NOT	REQ.			100	VT-1	NA	NA	NA	X	
19-037A	Pipe To Ell Circ Seam	B9.11.16	BJ					100	PT	NA				CFA-3
19-037A	Pipe To Ell Circ Seam	B9.11.16	BJ					100	UT	40843				CFA-3
19-037A	Valve CF-1A Flange Surfaces	B6.220.4	BG1			X		100	VT-1	NA	NA	NA	X	
19-037B	Restraint DH-175	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-610
19-038A	Ell To Valve Circ Seam	B9.11.17	BJ					100	PT	NA				CFA-2
19-038A	Ell To Valve Circ Seam	B9.11.17	BJ					100	UT	40848				CFA-2
19-038A	Restraint DH-198	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-600
19-038B	Restraint DH-171	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-608
19-039A	Pipe To Valve Circ Seam	B9.11.18	BJ					100	PT	NA				CFA-1
19-039A	Pipe To Valve Circ Seam	B9.11.18	BJ					100	UT	40848				CFA-1
19-039A	Spring Hanger DH-197	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-602
19-039B	Restraint DH-164	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-607
19-040A	Restraint DH-196	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-604
19-040B	Spring Hanger DH-163	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-606
19-041A	Spring Hanger DH-195	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-605
19-041B	Spring Hanger DH-174	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-609
19-042A	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
19-042B	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
19-043A	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
19-043B	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
19-044A	Pressure Retaining Boundry	B15.70	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
19-044B	Pressure Retaining Boundry	B15.70	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
19-045A	Pressure Retaining Boundry	B15.71	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
19-045B	Pressure Retaining Boundry	B15.71	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest



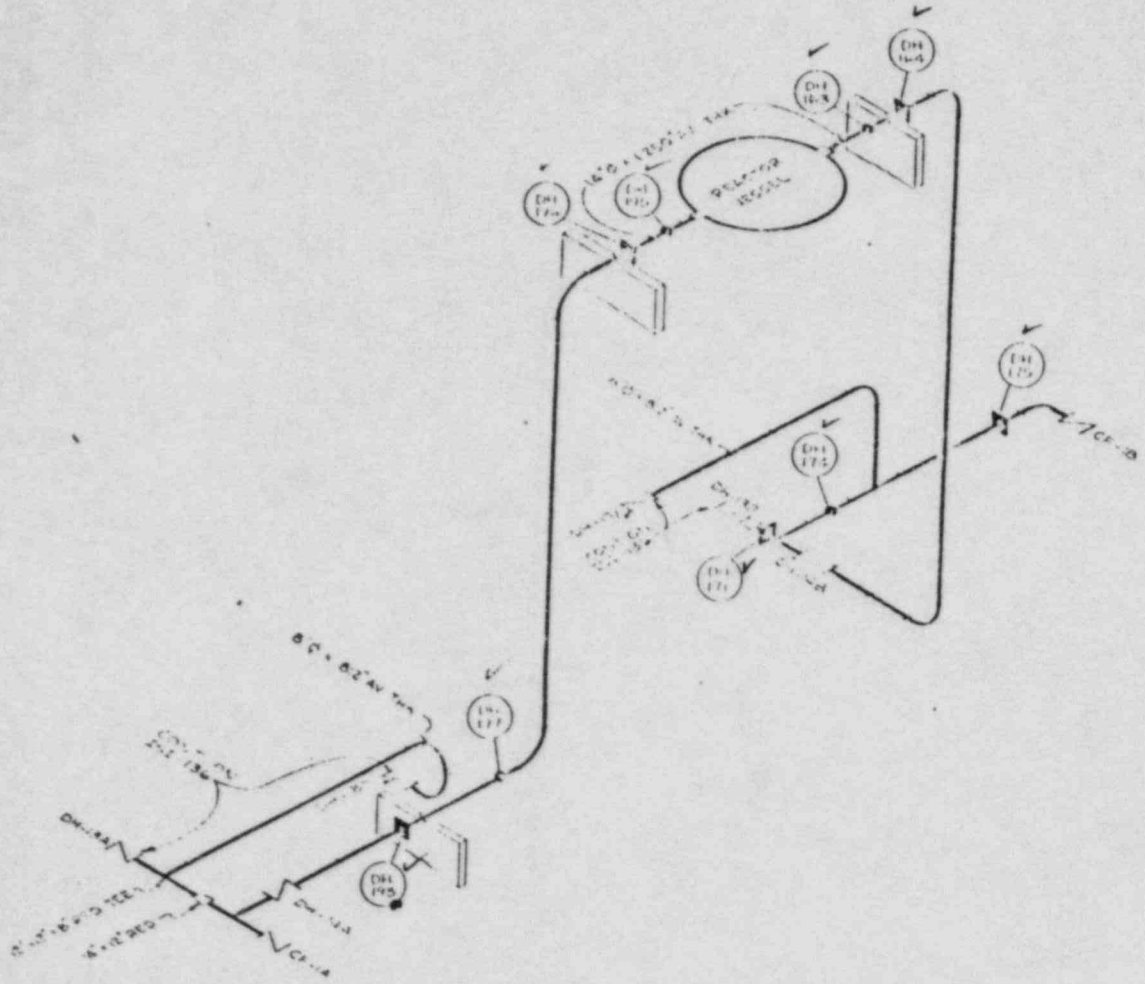
NO	DATE	REVISION	BY	CHK	ENGR
0	7/15/81	ISSUED PER I.S.I.	RJ	II	

SCALE: — DESIGN BBB DRAWN R. JONES

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

CORE FLOOD
ZONE 19

DRAWING NO. ISI-119 REV. 0



CODE FLOOD
ZONE 19

151-1191

FOR INFORMATION ONLY

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-20

COMPONENT DESCRIPTION

HPI TO A1 LOOP

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
20-001	Valve To Pipe Circ Seam	B9.11.1 BJ					100	PT	NA				HPI-A1-1
20-001	Valve To Pipe Circ Seam	B9.11.1 BJ					100	UT	40816				HPI-A1-1
20-002	Pipe To Pipe Circ Seam	B9.11.2 BJ					100	PT	NA				HPI-A1-2
20-002	Pipe To Pipe Circ Seam	B9.11.2 BJ					100	UT	40816				HPI-A1-2
20-003	Pipe To Ell Circ Seam	B9.11.3 BJ					100	PT	NA				HPI-A1-3
20-003	Pipe To Ell Circ Seam	B9.11.3 BJ					100	UT	40816				HPI-A1-3
20-004	Ell To Pipe Circ Seam	B9.11.4 BJ					100	PT	NA				HPI-A1-4
20-004	Ell To Pipe Circ Seam	B9.11.4 BJ					100	UT	40816				HPI-A1-4
20-005	Pipe To Ell Circ Seam	B9.11.5 BJ					100	PT	NA				HPI-A1-5
20-005	Pipe To Ell Circ Seam	B9.11.5 BJ					100	UT	40816				HPI-A1-5
20-006	Ell To Pipe Circ Seam	B9.11.6 BJ					100	PT	NA				HPI-A1-6
20-006	Ell To Pipe Circ Seam	B9.11.6 BJ					100	UT	40816				HPI-A1-6
20-007	Pipe To Ell Circ Seam	B9.11.7 BJ					100	PT	NA				HPI-A1-7
20-007	Pipe To Ell Circ Seam	B9.11.7 BJ					100	UT	40816				HPI-A1-7
20-008	Ell To Pipe Circ Seam	B9.11.8 BJ					100	PT	NA				HPI-A1-8
20-008	Ell To Pipe Circ Seam	B9.11.8 BJ					100	UT	40816				HPI-A1-8
20-008A	Pipe To Pipe Circ Seam	B9.11.9 BJ					100	PT	NA				HPI-A1-8A
20-008A	Pipe To Pipe Circ Seam	B9.11.9 BJ					100	UT	40816				HPI-A1-8A
20-009	Pipe To Pipe Circ Seam	B9.11.10 BJ					100	PT	NA				HPI-A1-9
20-009	Pipe To Pipe Circ Seam	B9.11.10 BJ					100	UT	40816				HPI-A1-9
20-010	Pipe To Ell Circ Seam	B9.11.11 BJ					100	PT	NA				HPI-A1-10
20-010	Pipe To Ell Circ Seam	B9.11.11 BJ					100	UT	40816				HPI-A1-10
20-011	Ell To Pipe Circ Seam	B9.11.12 BJ					100	PT	NA				HPI-A1-11
20-011	Ell To Pipe Circ Seam	B9.11.12 BJ					100	UT	40816				HPI-A1-11
20-012	Pipe To Ell Circ Seam	B9.11.13 BJ					100	PT	NA				HPI-A1-12
20-012	Pipe To Ell Circ Seam	B9.11.13 BJ					100	UT	40816				HPI-A1-12
20-013	Ell To Pipe Circ Seam	B9.11.14 BJ					100	PT	NA				HPI-A1-13
20-013	Ell To Pipe Circ Seam	B9.11.14 BJ					100	UT	40816				HPI-A1-13
20-014	Pipe To Ell Circ Seam	B9.11.15 BJ					100	PT	NA				HPI-A1-14
20-014	Pipe To Ell Circ Seam	B9.11.15 BJ					100	UT	40816				HPI-A1-14
20-015	Ell To Pipe Circ Seam	B9.11.16 BJ					100	PT	NA				HPI-A1-15
20-015	Ell To Pipe Circ Seam	B9.11.16 BJ					100	UT	40816				HPI-A1-15
20-016	Pipe To Ell Circ Seam	B9.11.17 BJ					100	PT	NA				HPI-A1-16

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 20

COMPONENT DESCRIPTION

HPI TO A1 LOOP

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R0-016	Pipe To Ell Circ Seam	B9.11.17 BJ					100	UT	40816				HPI-A1-16
R0-017	Ell To Pipe Circ Seam	B9.11.18 BJ					100	PT	NA				HPI-A1-17
R0-017	Ell To Pipe Circ Seam	B9.11.18 BJ					100	UT	40816				HPI-A1-17
R0-018	Pipe To Ell Circ Seam	B9.11.19 BJ					100	PT	NA				HPI-A1-18
R0-018	Pipe To Ell Circ Seam	B9.11.19 BJ					100	UT	40816				HPI-A1-18
R0-019	Ell To Pipe Circ Seam	B9.11.20 BJ					100	PT	NA				HPI-A1-19
R0-019	Ell To Pipe Circ Seam	B9.11.20 BJ					100	UT	40816				HPI-A1-19
R0-020	Pipe To Ell Circ Seam	B9.11.21 BJ					100	PT	NA				HPI-A1-20
R0-020	Pipe To Ell Circ Seam	B9.11.21 BJ					100	UT	40816				HPI-A1-20
R0-021	Ell To Pipe Circ Seam	B9.11.22 BJ					100	PT	NA				HPI-A1-21
R0-021	Ell To Pipe Circ Seam	B9.11.22 BJ					100	UT	40816				HPI-A1-21
R0-022	Pipe To Ell Circ Seam	B9.11.23 BJ					100	PT	NA				HPI-A1-22
R0-022	Pipe To Ell Circ Seam	B9.11.23 BJ					100	UT	40816				HPI-A1-22
R0-023	Ell To Pipe Circ Seam	B9.11.24 BJ					100	PT	NA				HPI-A1-23
R0-023	Ell To Pipe Circ Seam	B9.11.24 BJ					100	UT	40816				HPI-A1-23
R0-024	Pipe To Ell Circ Seam	B9.11.25 BJ					100	PT	NA				HPI-A1-24
R0-024	Pipe To Ell Circ Seam	B9.11.25 BJ					100	UT	40816				HPI-A1-24
R0-025	Ell To Pipe Circ Seam	B9.11.26 BJ					100	PT	NA				HPI-A1-25
R0-025	Ell To Pipe Circ Seam	B9.11.26 BJ					100	UT	40816				HPI-A1-25
R0-026	Pipe To Pipe Circ Seam	B9.11.27 BJ				X	100	PT	NA	X	X	X	HPI-A1-26
R0-026	Pipe To Pipe Circ Seam	B9.11.27 BJ				X	100	UT	40816	X	X	X	HPI-A1-26
R0-027	Pipe To Ell Circ Seam	B9.11.28 BJ				X	100	PT	NA	X	X	X	HPI-A1-27
R0-027	Pipe To Ell Circ Seam	B9.11.28 BJ				X	100	UT	40816	X	X	X	HPI-A1-27
R0-028	Ell To Pipe Circ Seam	B9.11.29 BJ				X	100	PT	NA	X	X	X	HPI-A1-28
R0-028	Ell To Pipe Circ Seam	B9.11.29 BJ				X	100	UT	40816	X	X	X	HPI-A1-28
R0-029	Pipe To Pipe Circ Seam	B9.11.30 BJ					100	PT	NA				HPI-A1-29
R0-029	Pipe To Pipe Circ Seam	B9.11.30 BJ					100	UT	40816				HPI-A1-29
R0-030	Pipe To Ell Circ Seam	B9.11.31 BJ			X		100	PT	NA	X	X	X	HPI-A1-30
R0-030	Pipe To Ell Circ Seam	B9.11.31 BJ			X		100	UT	40816	X	X	X	HPI-A1-30
R0-031	Ell To Pipe Circ Seam	B9.11.32 BJ			X		100	PT	NA	X	X	X	HPI-A1-31
R0-031	Ell To Pipe Circ Seam	B9.11.32 BJ			X		100	UT	40816	X	X	X	HPI-A1-31
R0-032	Pipe To Ell Circ Seam	B9.11.33 BJ			X		100	PT	NA	X	X	X	HPI-A1-32
R0-032	Pipe To Ell Circ Seam	B9.11.33 BJ			X		100	UT	40816	X	X	X	HPI-A1-32

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-20

COMPONENT DESCRIPTION

HPI TO A1 LOOP

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R0-033	Ell To Pipe Circ Seam	B9.11.34 BJ			X		100	PT	NA	X	X	X	HPI-A1-33
R0-033	Ell To Pipe Circ Seam	B9.11.34 BJ			X		100	UT	40816	X	X	X	HPI-A1-33
R0-034	Pipe To Pipe Circ Seam	B9.11.35 BJ		X			100	PT	NA	X	X	X	HPI-A1-34
R0-034	Pipe To Pipe Circ Seam	B9.11.35 BJ		X			100	UT	40816	X	X	X	HPI-A1-34
R0-035	Pipe To Valve Circ Seam	B9.11.36 BJ		X			100	PT	NA	X	X	X	HPI-A1-35
R0-035	Pipe To Valve Circ Seam	B9.11.36 BJ		X			100	UT	40816	X	X	X	HPI-A1-35
R0-036	Valve To Ell Circ Seam	B9.11.37 BJ		X			100	PT	NA	X	X	X	HPI-A1-36
R0-036	Valve To Ell Circ Seam	B9.11.37 BJ		X			100	UT	40816	X	X	X	HPI-A1-36
R0-037	Ell To Pipe Circ Seam	B9.11.38 BJ					100	PT	NA				HPI-A1-37
R0-037	Ell To Pipe Circ Seam	B9.11.38 BJ					100	UT	40816				HPI-A1-37
R0-038	Pipe To Pipe Circ Seam	B9.11.39 BJ	X				100	PT	NA	X	X	X	HPI-A1-38
R0-038	Pipe To Pipe Circ Seam	B9.11.39 BJ	X				100	UT	40816	X	X	X	HPI-A1-38
R0-039	Pipe To Ell Circ Seam	B9.11.40 BJ	X				100	PT	NA	X	X	X	HPI-A1-39
R0-039	Pipe To Ell Circ Seam	B9.11.40 BJ	X				100	UT	40816	X	X	X	HPI-A1-39
R0-040	Ell To Pipe Circ Seam	B9.11.41 BJ	X				100	PT	NA	X	X	X	HPI-A1-40
R0-040	Ell To Pipe Circ Seam	B9.11.41 BJ	X				100	UT	40816	X	X	X	HPI-A1-40
R0-041	Pipe To Valve Circ Seam	B9.11.42 BJ	X				100	PT	NA	X	X	X	HPI-A1-41
R0-041	Pipe To Valve Circ Seam	B9.11.42 BJ	X				100	UT	40816	X	X	X	HPI-A1-41
R0-042	Valve To Pipe Circ Seam	B9.11.43 BJ	X				100	PT	NA	X	X	X	HPI-A1-42
R0-042	Valve To Pipe Circ Seam	B9.11.43 BJ	X				100	UT	40816	X	X	X	HPI-A1-42
R0-043	Pipe To Ell Circ Seam	B9.11.44 BJ	X				100	PT	NA	X	X	X	HPI-A1-43
R0-043	Pipe To Ell Circ Seam	B9.11.44 BJ	X				100	UT	40816	X	X	X	HPI-A1-43
R0-044	Ell To Pipe Circ Seam	B9.11.45 BJ	X				100	PT	NA	X	X	X	HPI-A1-44
R0-044	Ell To Pipe Circ Seam	B9.11.45 BJ	X				100	UT	40816	X	X	X	HPI-A1-44
R0-045	Pipe To P32C Disch Safe End	B5.50.1 BF	X				100	PT	NA	X	X	X	HPI-A1-45 Safe End
R0-045	Pipe To P32C Disch Safe End	B5.50.1 BF	X				100	UT	40816	X	X	X	HPI-A1-45 Safe End
R0-046	Pipe To Red Circ Seam	B9.11.46 BJ					100	PT	NA				FW-62
R0-046	Pipe To Red Circ Seam	B9.11.46 BJ					100	UT	40816				FW-62
R0-047	Red To Valve Circ Seam	B9.11.47 BJ					100	PT	NA				FW-61
R0-047	Red To Valve Circ Seam	B9.11.47 BJ					100	UT	40816				FW-61
R0-048	Valve To Pipe Circ Seam	B9.11.48 BJ					100	PT	NA				FW-2
R0-048	Valve To Pipe Circ Seam	B9.11.48 BJ					100	UT	40816				FW-2
R0-049	Pipe To Tee Circ Seam	B9.11.49 BJ					100	PT	NA				FW-3

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-20

COMPONENT DESCRIPTION

HPI TO A1 LOOP

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
20-049	Pipe To Tee Circ Seam	B9.11.49	BJ					100	UT	40816				FW-3
20-050	Tee To Red Circ Seam	B9.11.50	BJ					100	PT	NA				FW-28
20-050	Tee To Red Circ Seam	B9.11.50	BJ					100	UT	40816				FW-28
20-051	Red To Pipe Circ Seam	B9.11.51	BJ					100	PT	NA				FW-29
20-051	Red To Pipe Circ Seam	B9.11.51	BJ					100	UT	40816				FW-29
20-052	Pipe To Valve Circ Seam	B9.11.52	BJ					100	PT	NA				FW-30
20-052	Pipe To Valve Circ Seam	B9.11.52	BJ					100	UT	40816				FW-30
20-053	Valve To Pipe Circ Seam	B9.11.53	BJ					100	PT	NA				FW-31
20-053	Valve To Pipe Circ Seam	B9.11.53	BJ					100	UT	40816				FW-31
20-054	Pipe To Red Circ Seam	B9.11.54	BJ					100	PT	NA				FW-32
20-054	Pipe To Red Circ Seam	B9.11.54	BJ					100	UT	40816				FW-32
20-055	Red To Pipe Circ Seam	B9.11.55	BJ					100	PT	NA				FW-33
20-055	Red To Pipe Circ Seam	B9.11.55	BJ					100	UT	40816				FW-33
20-056	Valve To Pipe Circ Seam	B9.11.56	BJ					100	PT	NA				FW-7
20-056	Valve To Pipe Circ Seam	B9.11.56	BJ					100	UT	40816				FW-7
20-057	Pipe To Ell Circ Seam	B9.11.57	BJ					100	PT	NA				FW-8
20-057	Pipe To Ell Circ Seam	B9.11.57	BJ					100	UT	40816				FW-8
20-058	Ell To Pipe Circ Seam	B9.11.58	BJ					100	PT	NA				FW-9
20-058	Ell To Pipe Circ Seam	B9.11.58	BJ					100	UT	40816				FW-9
20-059	Pipe To Ell Circ Seam	B9.11.59	BJ					100	PT	NA				FW-10
20-059	Pipe To Ell Circ Seam	B9.11.59	BJ					100	UT	40816				FW-10
20-060	Ell To Pipe Circ Seam	B9.11.60	BJ					100	PT	NA				FW-11
20-060	Ell To Pipe Circ Seam	B9.11.60	BJ					100	UT	40816				FW-11
20-061	Pipe To Ell Circ Seam	B9.11.61	BJ					100	PT	NA				FW-12
20-061	Pipe To Ell Circ Seam	B9.11.61	BJ					100	UT	40816				FW-12
20-062	Ell To Pipe Circ Seam	B9.11.62	BJ					100	PT	NA				FW-13
20-062	Ell To Pipe Circ Seam	B9.11.62	BJ					100	UT	40816				FW-13
20-063	Pipe To Ell Circ Seam	B9.11.63	BJ					100	PT	NA				FW-14
20-063	Pipe To Ell Circ Seam	B9.11.63	BJ					100	UT	40816				FW-14
20-064	Ell To Pipe Circ Seam	B9.11.64	BJ					100	PT	NA				FW-15
20-064	Ell To Pipe Circ Seam	B9.11.64	BJ					100	UT	40816				FW-15
20-065	Pipe To Pipe Circ Seam	B9.11.65	BJ					100	PT	NA				FW-16
20-065	Pipe To Pipe Circ Seam	B9.11.65	BJ					100	UT	40816				FW-16

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 20

COMPONENT DESCRIPTION

HPI TO A1 LOOP

REVISED 12/01/83

PAGE-5 of 6

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
20-066	Pipe To Ell Circ Seam	B9.11.66	BJ					100	PT	NA				FW-24
20-066	Pipe To Ell Circ Seam	B9.11.66	BJ					100	UT	40816				FW-24
20-067	Ell To Ell Circ Seam	B9.11.67	BJ					100	PT	NA				FW-25
20-067	Ell To Ell Circ Seam	B9.11.67	BJ					100	UT	40816				FW-25
20-068	Ell To Red Circ Seam	B9.11.68	BJ					100	PT	NA				FW-26
20-068	Ell To Red Circ Seam	B9.11.68	BJ					100	UT	40816				FW-26
20-069	Red To Tee Circ Seam	B9.11.69	BJ					100	PT	NA				FW-27
20-069	Red To Tee Circ Seam	B9.11.69	BJ					100	UT	40816				FW-27
20-070	Pipe To Pipe Circ Seam	B9.11.70	BJ					100	PT	NA				FW-35
20-070	Pipe To Pipe Circ Seam	B9.11.70	BJ					100	UT	40816				FW-35
20-071	4" Valve MU-1223	B12.40.1	BM2				X	100	VT-3	NA	NA	NA	NA	Internal
20-072	3" Valve MU-1211	B12.40.2	BM2				X	100	VT-3	NA	NA	NA	NA	Internal
20-073	2 ½" Valve CV-1219	B12.40.3	BM2				X	100	VT-3	NA	NA	NA	NA	Internal
20-074	2" Valve MU-1231	B12.40.4	BM2				X	100	VT-3	NA	NA	NA	NA	Internal
20-075	2 ½" Valve MU-34C	B12.40.5	BM2	NDE	NDE			100	VT-3	NA	NA	NA	NA	
20-076	2 ½" Valve MU-45C	B12.40.6	BM2	NDE	NDE			100	VT-3	NA	NA	NA	NA	
20-077	Valve MU-1223 Bolts-Studs-Nuts	B7.70.1	BG2				X	100	VT-1	NA				
20-078	Valve MU-1211 Bolts-Studs-Nuts	B7.70.2	BG2				X	100	VT-1	NA				
20-079	Valve CV-1219 Bolts-Studs-Nuts	B7.70.3	BG2				X	100	VT-1	NA				
20-080	Valve MU-1231 Bolts-Studs-Nuts	B7.70.4	BG2				X	100	VT-1	NA				
20-081	Valve MU-34C Bolts-Studs-Nuts	B7.70.5	BG2	NDE	NDE			100	VT-1	NA				
20-082	Valve MU-45C Bolts-Studs-Nuts	B7.70.6	BG2	NDE	NDE			100	VT-1	NA				
20-083	Guide Stop MU-212	B10.10.1	BK1					100	PT	NA	X	X	X	SK#1-561
20-084	Rigid Hanger MU-203	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-563
20-085	Guide MU-204	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-550
20-086	Guide MU-205	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-551
20-087	Guide MU-207	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-554
20-088	Guide MU-208	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-555
20-089	Guide MU-211	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-560
20-090	Guide Stop MU-212	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-561
20-091	Restraint MU-210	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-558
20-092	Spring Hanger MU-213	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#1-562
20-093	Guide MU-206	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-552

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 20

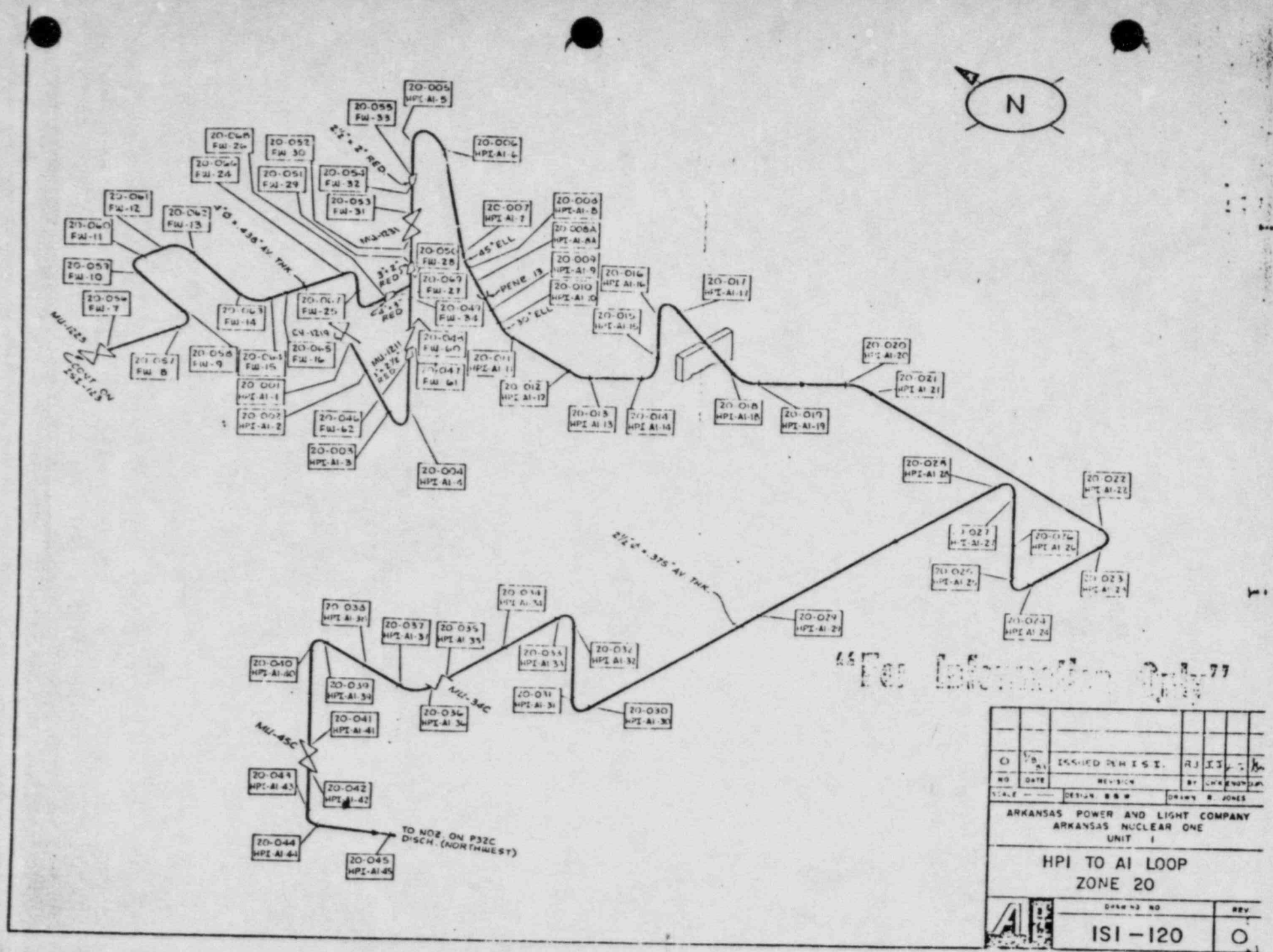
COMPONENT DESCRIPTION

HPI TO A1 LOOP

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
20-094	Guide MU-403	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	CCA-5-MU-403
20-095	Guide MU-404	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	CCA-5-MU-404
20-096	Guide MU-405	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	CCA-5-MU-405
20-097	Guide MU-406	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	CCA-5-MU-406
20-098	Guide MU-407	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	CCA-5-MU-407
20-099	Guide MU-408	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	CCA-5-MU-408
20-100	Pressure Retaining Boundry	B15.50	B-P	X	X	X		100	VT-2	NA	NA	NA	NA	System Leakage Test
20-101	Pressure Retaining Boundry	B15.51	B-P			X		100	VT-2	NA	NA	NA	NA	System Hydrotest
20-102	Pressure Retaining Boundry	B15.70	B-P	X	X	X		100	VT-2	NA	NA	NA	NA	System Leakage Test
20-103	Pressure Retaining Boundry	B15.71	B-P			X		100	VT-2	NA	NA	NA	NA	System Hydrotest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20-005 HPI AI-5
20-055 FW-33
20-006 HPI AI-6
20-052 FW-30
20-054 FW-32
20-051 FW-29
20-053 FW-31
20-007 HPI AI-7
20-008 HPI AI-8
20-008A HPI AI-8A
20-009 HPI AI-9
20-010 HPI AI-10
20-050 FW-28
20-049 FW-27
20-047 FW-26
20-048 FW-60
20-047 FW-61
20-011 HPI AI-11
20-012 HPI AI-12
20-013 HPI AI-13
20-014 HPI AI-14
20-015 HPI AI-15
20-016 HPI AI-16
20-017 HPI AI-17
20-018 HPI AI-18
20-019 HPI AI-19
20-020 HPI AI-20
20-021 HPI AI-21
20-022 HPI AI-22
20-023 HPI AI-23
20-024 HPI AI-24
20-025 HPI AI-25
20-026 HPI AI-26
20-027 HPI AI-27
20-028 HPI AI-28
20-029 HPI AI-29
20-030 HPI AI-30
20-031 HPI AI-31
20-032 HPI AI-32
20-033 HPI AI-33
20-034 HPI AI-34
20-035 HPI AI-35
20-036 HPI AI-36
20-037 HPI AI-37
20-038 HPI AI-38
20-039 HPI AI-39
20-040 HPI AI-40
20-041 HPI AI-41
20-042 HPI AI-42
20-043 HPI AI-43
20-044 HPI AI-44
20-045 HPI AI-45
20-046 FW-24
20-061 FW-12
20-062 FW-13
20-060 FW-11
20-059 FW-10
20-058 FW-9
20-057 FW-8
20-056 FW-7
20-063 FW-14
20-064 FW-15
20-065 FW-16
20-066 FW-25
20 001 HPI AI-1
20 002 HPI AI-2
20-003 HPI AI-3
20-004 HPI AI-4
20-042 FW-62
2" x 2" RED
3" x 2" RED
4" x 3" RED
MU-122A
MU-122B
MU-122C
MU-122D
MU-122E
MU-122F
MU-122G
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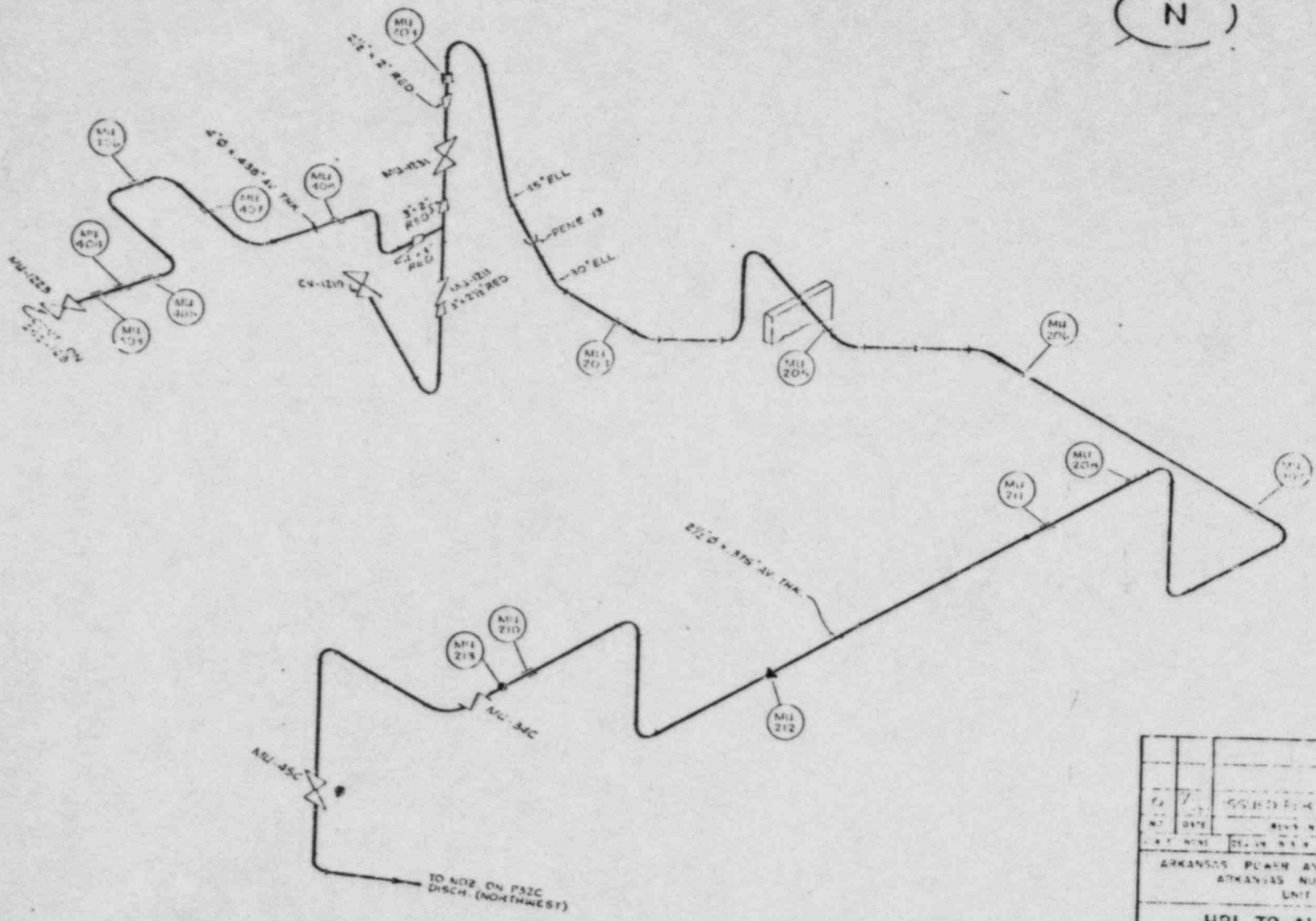
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FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 21

COMPONENT DESCRIPTION

HPI TO A2 LOOP

REVISED 12/01/83

CLASS 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R1-001	Valve To Red Circ Seam	B9.11.1 BJ	X				100	PT	NA	X	X	X	FW-16
R1-001	Valve To Red Circ Seam	B9.11.1 BJ	X				100	UT	40816	X	X	X	FW-16
R1-002	Red To Valve Circ Seam	B9.11.2 BJ	X				100	PT	NA	X	X	X	FW-15
R1-002	Red To Valve Circ Seam	B9.11.2 BJ	X				100	UT	40816	X	X	X	FW-15
R1-003	Valve To Pipe Circ Seam	B9.11.3 BJ					100	PT	NA				FW-14
R1-003	Valve To Pipe Circ Seam	B9.11.3 BJ					100	UT	40816				FW-14
R1-004	Pipe To Tee Circ Seam	B9.11.4 BJ	X				100	PT	NA	X	X	X	FW-13
R1-004	Pipe To Tee Circ Seam	B9.11.4 BJ	X				100	UT	40816	X	X	X	FW-13
R1-005	Tee To Red Circ Seam	B9.11.5 BJ		X			100	PT	NA	X	X	X	FW-17
R1-005	Tee To Red Circ Seam	B9.11.5 BJ		X			100	UT	40816	X	X	X	FW-17
R1-006	Red To Valve Circ Seam	B9.11.6 BJ		X			100	PT	NA	X	X	X	FW-18
R1-006	Red To Valve Circ Seam	B9.11.6 BJ		X			100	UT	40816	X	X	X	FW-18
R1-007	Tee To Pipe Circ Seam	B9.11.7 BJ					100	PT	NA				FW-62
R1-007	Tee To Pipe Circ Seam	B9.11.7 BJ					100	UT	40816				FW-62
R1-008	Pipe To Pipe Circ Seam	B9.11.8 BJ		X			100	PT	NA	X	X	X	FW-11
R1-008	Pipe To Pipe Circ Seam	B9.11.8 BJ		X			100	UT	40816	X	X	X	FW-11
R1-009	Pipe To Valve Circ Seam	B9.11.9 BJ					100	PT	NA				FW-10
R1-009	Pipe To Valve Circ Seam	B9.11.9 BJ					100	UT	40816				FW-10
R1-010	Valve To Red Circ Seam	B9.11.10 BJ			X		100	PT	NA	X	X	X	FW-9
R1-010	Valve To Red Circ Seam	B9.11.10 BJ			X		100	UT	40816	X	X	X	FW-9
R1-011	Red To Pipe Circ Seam	B9.11.11 BJ			X		100	PT	NA	X	X	X	FW-8
R1-011	Red To Pipe Circ Seam	B9.11.11 BJ			X		100	UT	40816	X	X	X	FW-8
R1-012	Pipe To Valve Circ Seam	B9.11.12 BJ			X		100	PT	NA	X	X	X	FW-56
R1-012	Pipe To Valve Circ Seam	B9.11.12 BJ			X		100	UT	40816	X	X	X	FW-56
R1-013	Valve To Pipe Circ Seam	B9.11.13 BJ				X	100	PT	NA	X	X	X	FW-58
R1-013	Valve To Pipe Circ Seam	B9.11.13 BJ				X	100	UT	40816	X	X	X	FW-58
R1-014	Pipe To Ell Circ Seam	B9.11.14 BJ				X	100	PT	NA	X	X	X	FW-7
R1-014	Pipe To Ell Circ Seam	B9.11.14 BJ				X	100	UT	40816	X	X	X	FW-7
R1-015	Ell To Pipe Circ Seam	B9.11.15 BJ				X	100	PT	NA	X	X	X	FW-6
R1-015	Ell To Pipe Circ Seam	B9.11.15 BJ				X	100	UT	40816	X	X	X	FW-6
R1-016	Pipe To Tee Circ Seam	B9.11.16 BJ				X	100	PT	NA	X	X	X	FW-58B
R1-016	Pipe To Tee Circ Seam	B9.11.16 BJ				X	100	UT	40816	X	X	X	FW-58B
R1-017	Tee To Pipe Circ Seam	B9.11.17 BJ				X	100	PT	NA	X	X	X	FW-2

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-21

COMPONENT DESCRIPTION

HPI TO A2 LOOP

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R1-017	Tee To Pipe Circ Seam	B9.11.17 BJ			X		100	UT	40816	X	X	X	FW-2
R1-018	Pipe To Pipe Circ Seam	B9.11.18 BJ			X		100	PT	NA	X	X	X	FW-1
R1-018	Pipe To Pipe Circ Seam	B9.11.18 BJ			X		100	UT	40816	X	X	X	FW-1
R1-019	Pipe To Valve Circ Seam	B9.11.19 BJ			X		100	PT	NA	X	X	X	HPI-A2-8
R1-019	Pipe To Valve Circ Seam	B9.11.19 BJ			X		100	UT	40816	X	X	X	HPI-A2-8
R1-020	Tee To Pipe Circ Seam	B9.11.20 BJ					100	PT	NA				FW-61
R1-020	Tee To Pipe Circ Seam	B9.11.20 BJ					100	UT	40816				FW-61
R1-021	Pipe To Ell Circ Seam	B9.11.21 BJ					100	PT	NA				FW-3
R1-021	Pipe To Ell Circ Seam	B9.11.21 BJ					100	UT	40816				FW-3
R1-022	Ell To Pipe Circ Seam	B9.11.22 BJ					100	PT	NA				FW-59
R1-022	Ell To Pipe Circ Seam	B9.11.22 BJ					100	UT	40816				FW-59
R1-023	Pipe To Pipe Circ Seam	B9.11.23 BJ					100	PT	NA				FW-54
R1-023	Pipe To Pipe Circ Seam	B9.11.23 BJ					100	UT	40816				FW-54
R1-024	Pipe To Ell Circ Seam	B9.11.24 BJ					100	PT	NA				FW-4
R1-024	Pipe To Ell Circ Seam	B9.11.24 BJ					100	UT	40816				FW-4
R1-025	Ell To Pipe Circ Seam	B9.11.25 BJ					100	PT	NA				FW-5
R1-025	Ell To Pipe Circ Seam	B9.11.25 BJ					100	UT	40816				FW-5
R1-026	Pipe To Pipe Circ Seam	B9.11.26 BJ					100	PT	NA				HPI-A2-4
R1-026	Pipe To Pipe Circ Seam	B9.11.26 BJ					100	UT	40816				HPI-A2-4
R1-027	Pipe To Pipe Circ Seam	B9.11.27 BJ					100	PT	NA				HPI-A2-9
R1-027	Pipe To Pipe Circ Seam	B9.11.27 BJ					100	UT	40816				HPI-A2-9
R1-028	Pipe To Ell Circ Seam	B9.11.28 BJ					100	PT	NA				HPI-A2-10
R1-028	Pipe To Ell Circ Seam	B9.11.28 BJ					100	UT	40816				HPI-A2-10
R1-029	Ell To Pipe Circ Seam	B9.11.29 BJ					100	PT	NA				HPI-A2-11
R1-029	Ell To Pipe Circ Seam	B9.11.29 BJ					100	UT	40816				HPI-A2-11
R1-030	Pipe To Ell Circ Seam	B9.11.30 BJ					100	PT	NA				HPI-A2-12
R1-030	Pipe To Ell Circ Seam	B9.11.30 BJ					100	UT	40816				HPI-A2-12
R1-031	Ell To Pipe Circ Seam	B9.11.31 BJ					100	PT	NA				HPI-A2-13
R1-031	Ell To Pipe Circ Seam	B9.11.31 BJ					100	UT	40816				HPI-A2-13
R1-032	Pipe To Ell Circ Seam	B9.11.32 BJ					100	PT	NA				HPI-A2-14
R1-032	Pipe To Ell Circ Seam	B9.11.32 BJ					100	UT	40816				HPI-A2-14
R1-033	Ell To Pipe Circ Seam	B9.11.33 BJ					100	PT	NA				HPI-A2-15
R1-033	Ell To Pipe Circ Seam	B9.11.33 BJ					100	UT	40816				HPI-A2-15

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ANO-UNIT-ONE | ZONE- 21 | PAGE-3 of 5

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS-1

HPI TO A2 LOOP

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R1-034	Pipe To Ell Circ Seam	B9.11.34 BJ					100	PT	NA				HPI-A2-16
R1-034	Pipe To Ell Circ Seam	B9.11.34 BJ					100	UT	40816				HPI-A2-16
R1-035	Ell To Pipe Circ Seam	B9.11.35 BJ					100	PT	NA				HPI-A2-17
R1-035	Ell To Pipe Circ Seam	B9.11.35 BJ					100	UT	40816				HPI-A2-17
R1-036	Pipe To Ell Circ Seam	B9.11.36 BJ					100	PT	NA				HPI-A2-18
R1-036	Pipe To Ell Circ Seam	B9.11.36 BJ					100	UT	40816				HPI-A2-18
R1-037	Ell To Pipe Circ Seam	B9.11.37 BJ					100	PT	NA				HPI-A2-19
R1-037	Ell To Pipe Circ Seam	B9.11.37 BJ					100	UT	40816				HPI-A2-19
R1-038	Pipe To Ell Circ Seam	B9.11.38 BJ					100	PT	NA				HPI-A2-20
R1-038	Pipe To Ell Circ Seam	B9.11.38 BJ					100	UT	40816				HPI-A2-20
R1-039	Ell To Pipe Circ Seam	B9.11.39 BJ					100	PT	NA				HPI-A2-21
R1-039	Ell To Pipe Circ Seam	B9.11.39 BJ					100	UT	40816				HPI-A2-21
R1-040	Pipe To Ell Circ Seam	B9.11.40 BJ					100	PT	NA				HPI-A2-22
R1-040	Pipe To Ell Circ Seam	B9.11.40 BJ					100	UT	40816				HPI-A2-22
R1-041	Ell To Pipe Circ Seam	B9.11.41 BJ					100	PT	NA				HPI-A2-23
R1-041	Ell To Pipe Circ Seam	B9.11.41 BJ					100	UT	40816				HPI-A2-23
R1-042	Pipe To Ell Circ Seam	B9.11.42 BJ					100	PT	NA				HPI A2-24
R1-042	Pipe To Ell Circ Seam	B9.11.42 BJ					100	UT	40816				HPI-A2-24
R1-043	Ell To Pipe Circ Seam	B9.11.43 BJ					100	PT	NA				HPI-A2-25
R1-043	Ell To Pipe Circ Seam	B9.11.43 BJ					100	UT	40816				HPI-A2-25
R1-044	Pipe To Ell Circ Seam	B9.11.44 BJ					100	PT	NA				HPI-A2-26
R1-044	Pipe To Ell Circ Seam	B9.11.44 BJ					100	UT	40816				HPI-A2-26
R1-045	Ell To Pipe Circ Seam	B9.11.45 BJ					100	PT	NA				HPI-A2-27
R1-045	Ell To Pipe Circ Seam	B9.11.45 BJ					100	UT	40816				HPI-A2-27
R1-046	Pipe To Pipe Circ Seam	B9.11.46 BJ					100	PT	NA				HPI-A2-28
R1-046	Pipe To Pipe Circ Seam	B9.11.46 BJ					100	UT	40816				HPI-A2-28
R1-047	Pipe To Ell Circ Seam	B9.11.47 BJ					100	PT	NA				HPI-A2-29
R1-047	Pipe To Ell Circ Seam	B9.11.47 BJ					100	UT	40816				HPI-A2-29
R1-048	Ell To Pipe Circ Seam	B9.11.48 BJ					100	PT	NA				HPI-A2-30
R1-048	Ell To Pipe Circ Seam	B9.11.48 BJ					100	UT	40816				HPI-A2-30
R1-049	Pipe To Pipe Circ Seam	B9.11.49 BJ					100	PT	NA				HPI-A2-31
R1-049	Pipe To Pipe Circ Seam	B9.11.49 BJ					100	UT	40816				HPI-A2-31
R1-050	Pipe To Pipe Circ Seam	B9.11.50 BJ					100	PT	NA				HPI-A2-32

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BO'NDRY

PROGRAM PLAN AND SCHEDULE

ZONE-21

COMPONENT DESCRIPTION

HPI TO A2 LOOP

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	P	REMARKS
R1-050	Pipe To Pipe Circ Seam	B9.11.50	BJ					100	UT	40816				HPI-A2-32
R1-051	Pipe To Ell Circ Seam	B9.11.51	BJ					100	PT	NA				HPI-A2-33
R1-051	Pipe To Ell Circ Seam	B9.11.51	BJ					100	UT	40816				HPI-A2-33
R1-052	Ell To Pipe Circ Seam	B9.11.52	BJ					100	PT	NA				HPI-A2-34
R1-052	Ell To Pipe Circ Seam	B9.11.52	BJ					100	UT	40816				HPI-A2-34
R1-053	Pipe To Valve Circ Seam	B9.11.53	BJ					100	PT	NA				HPI-A2-35
R1-053	Pipe To Valve Circ Seam	B9.11.53	BJ					100	UT	40816				HPI-A2-35
R1-054	Valve To Ell Circ Seam	B9.11.54	BJ					100	PT	NA				HPI-A2-36
R1-054	Valve To Ell Circ Seam	B9.11.54	BJ					100	UT	40816				HPI-A2-36
R1-055	Ell To Pipe Circ Seam	B9.11.55	BJ					100	PT	NA				HPI-A2-37
R1-055	Ell To Pipe Circ Seam	B9.11.55	BJ					100	UT	40816				HPI-A2-37
R1-056	Pipe To Pipe Circ Seam	B9.11.56	BJ					100	PT	NA				HPI-A2-38
R1-056	Pipe To Pipe Circ Seam	B9.11.56	BJ					100	UT	40816				HPI-A2-38
R1-057	Pipe To Ell Circ Seam	B9.11.57	BJ					100	PT	NA				HPI-A2-39
R1-057	Pipe To Ell Circ Seam	B9.11.57	BJ					100	UT	40816				HPI-A2-39
R1-058	Ell To Pipe Circ Seam	B9.11.58	BJ					100	PT	NA				HPI-A2-40
R1-058	Ell To Pipe Circ Seam	B9.11.58	BJ					100	UT	40816				HPI-A2-40
R1-059	Pipe To Valve Circ Seam	B9.11.59	BJ					100	PT	NA				HPI-A2-41
R1-059	Pipe To Valve Circ Seam	B9.11.59	BJ					100	UT	40816				HPI-A2-41
R1-060	Valve To Pipe Circ Seam	B9.11.60	BJ					100	PT	NA				HPI-A2-42
R1-060	Valve To Pipe Circ Seam	B9.11.60	BJ					100	UT	40816				HPI-A2-42
R1-061	Pipe To Pipe Circ Seam	B9.11.61	BJ					100	PT	NA				HPI-A2-43
R1-061	Pipe To Pipe Circ Seam	B9.11.61	BJ					100	UT	40816				HPI-A2-43
R1-062	Pipe To Ell Circ Seam	B9.11.62	BJ					100	PT	NA				HPI-A2 44
R1-062	Pipe To Ell Circ Seam	B9.11.62	BJ					100	UT	40816				HPI-A2-44
R1-063	Ell To Pipe Circ Seam	B9.11.63	BJ					100	PT	NA				HPI-A2-45
R1-063	Ell To Pipe Circ Seam	B9.11.63	BJ					100	UT	40816				HPI-A2-45
R1-064	Pipe To P34D Disch Safe End	B5.50.1	BF	X				100	PT	NA	X	X	X	HPI-A2-SE
R1-064	Pipe To P34D Disch Safe End	B5.50.1	BF	X				100	UT	40816	X	X	X	HPI-A2-SE
R1-065	2" Valve CV-1220	B12.40.1	BM2				X	NA	VT-3	NA	X	X	X	Internal Surface
R1-066	2" Valve MU-1224	B12.40.2	BM2				X	NA	VT-3	NA	X	X	X	Internal Surface
R1-067	2" Valve MU-1238	B12.40.3	BM2	NQT	RTQ			NA	VT-3	NA	X	X	X	Internal Surface
R1-068	2" Valve CV-1234	B12.40.4	BM2	NQT	RTQ			NA	VT-3	NA	X	X	X	Internal Surface

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 21

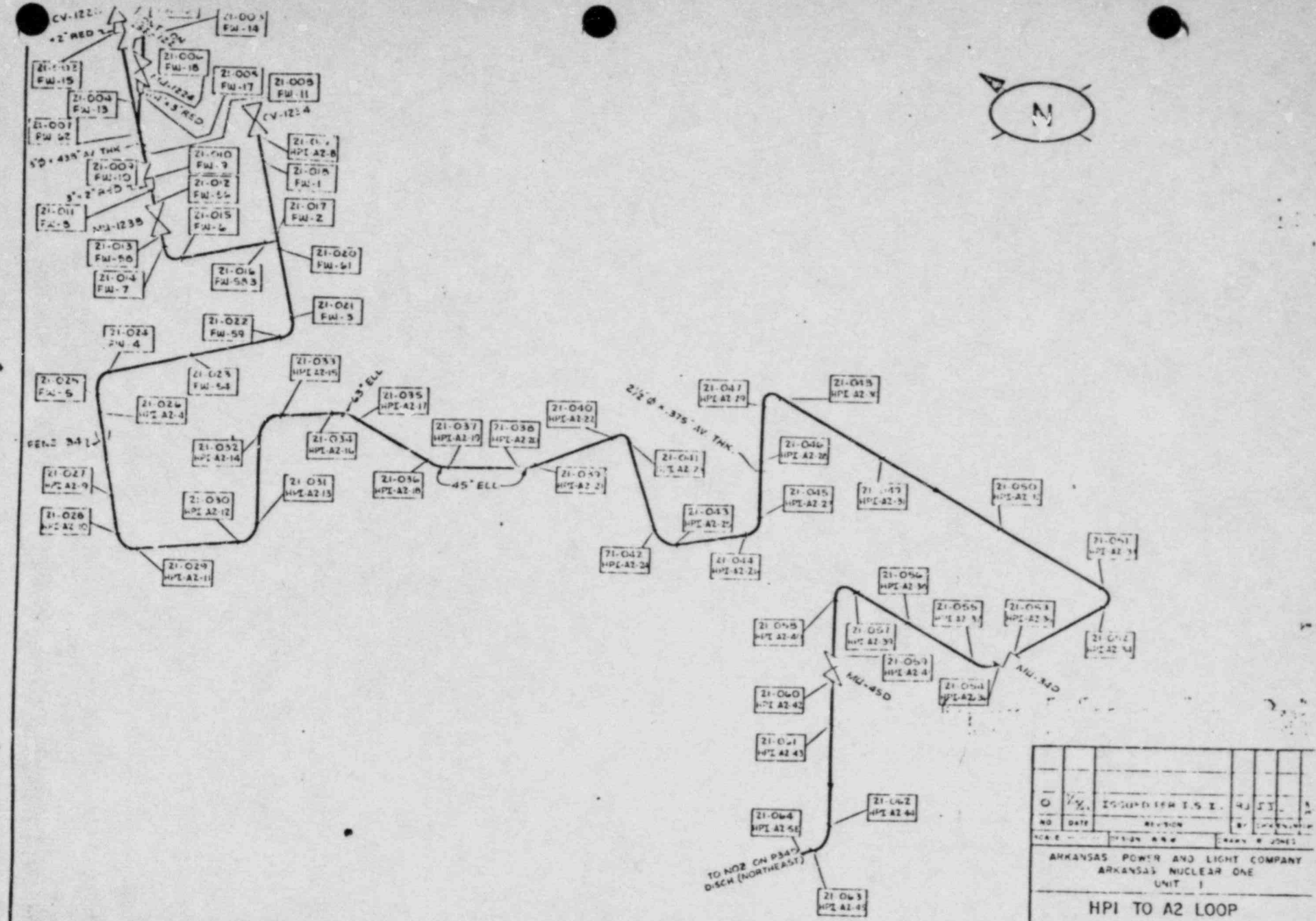
COMPONENT DESCRIPTION

HPI TO A2 LOOP

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
21-069	2 ½" Valve MU-34D	B12.40.5	BM2	NOT REQ'D				NA	VT-3	NA	X	X	X	Internal Surface
21-070	2 ½" Valve MU-45D	B12.40.6	BM2					NA	VT-3	NA	X	X	X	Internal Surface
21-071	Pump P32D	B12.20.1	BL2				X	100	VT-3	NA	X	X	X	Internal Surface
21-072	Pump P32D Bolts & Studs	B6.180.1	BG1				X	100	UT		X	X	X	All Bolts & Studs
21-073	Pump P32D Nuts & Washers	B6.200.1	BG1				X	100	VT-1	NA	X	X	X	All Nuts & Washers
21-074	Pump P32D Flange Surfaces	B6.190.1	BG1				X	100	VT-1	NA	X	X	X	
21-075	Valve CV-1220 Bolts-Studs-Nuts	B7.70.1	BG2				X	100	VT-1	NA	X	X	X	
21-076	Valve MU-1224 Bolts-Studs-Nuts	B7.70.2	BG2				X	100	VT-1	NA	X	X	X	
21-077	Valve MU-1238 Bolts-Studs-Nuts	B7.70.3	BG2	NOT REQ'D				100	VT-1	NA	X	X	X	
21-078	Valve CV-1234 Bolts-Studs-Nuts	B7.70.4	BG2	NOT REQ'D				100	VT-1	NA	X	X	X	
21-079	Valve MU-34D Bolts-Studs-Nuts	B7.70.5	BG2	NOT REQ'D				100	VT-1	NA	X	X	X	
21-080	Valve MU-45D Bolts-Studs-Nuts	B7.70.6	BG2				X	100	VT-1	NA	X	X	X	
21-081	Rigid Hanger MU-194	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-541
21-082	Guide MU-195	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-542
21-083	Guide MU-196	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-544
21-084	Guide MU-198	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-546
21-085	Spring Hanger MU-199	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-548
21-086	Restraint MU-197	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#1-545
21-087	Restraint MU-201	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#1-568
21-088	Spring Hanger MU-200	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#1-549
21-089	Rigid Hanger MU-193	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	CCA-5-MU-193
21-090	Pressure Retaining Boundry	B15.50		X	X	X	X	100	VT-2	NA	X	X	X	System Leakage Test
21-091	Pressure Retaining Boundry	B15.51					X	100	VT-2	NA	X	X	X	System Hydrotest
21-092	Pressure Retaining Boundry	B15.60		X	X	X	X	100	VT-2	NA	X	X	X	System Leakage Test
21-093	Pressure Retaining Boundry	B15.61					X	100	VT-2	NA	X	X	X	System Hydrotest
21-094	Pressure Retaining Boundry	B15.70		X	X	X	X	100	VT-2	NA	X	X	X	System Leakage Test
		B15.71					X	100	VT-2	NA	X	X	X	System Hydrotest

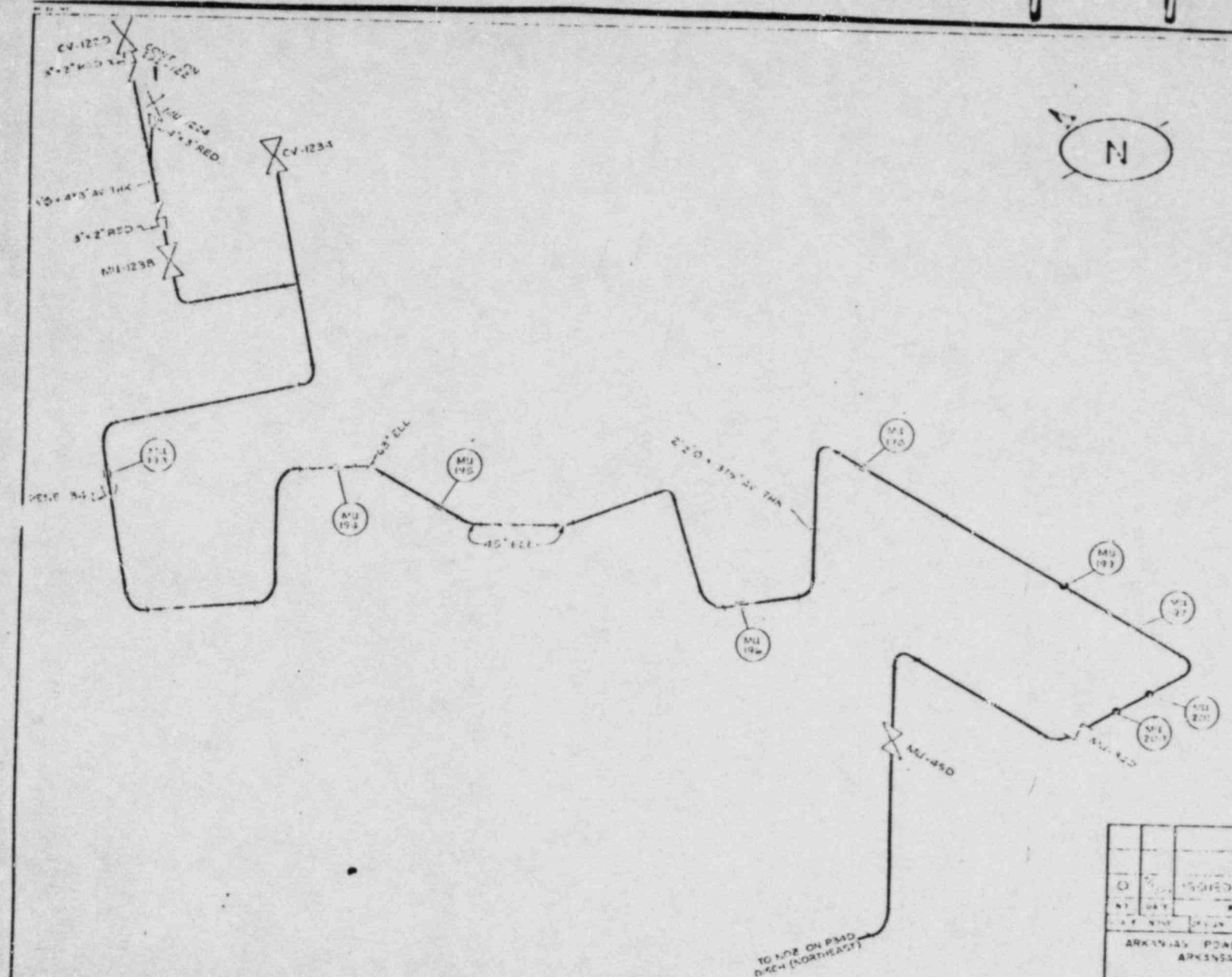


NO	DATE	REVISION	BY
0	7/84	ISSUED FOR I.S.I.	

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

HPI TO A2 LOOP
ZONE 21

SIZE	DRAWING NO	REV
A	ISI-121	0



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT

HPI TO A2 LOOP
ZONE 21

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FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 22

COMPONENT DESCRIPTION

HPI TO B1 LOOP

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R2-001	Valve To Pipe Circ Seam	B9.11.1 BJ	X				100	PT	NA	X	X	X	FW-19
R2-001	Valve To Pipe Circ Seam	B9.11.1 BJ	X				100	UT	40816	X	X	X	FW-19
R2-002	Pipe To Ell Circ Seam	B9.11.2 BJ	X				100	PT	NA	X	X	X	FW-20
R2-002	Pipe To Ell Circ Seam	B9.11.2 BJ	X				100	UT	40816	X	X	X	FW-20
R2-003	Ell To Pipe Circ Seam	B9.11.3 BJ	X				100	PT	NA	X	X	X	FW-21
R2-003	Ell To Pipe Circ Seam	B9.11.3 BJ	X				100	UT	40816	X	X	X	FW-21
R2-004	Pipe To Pipe Circ Seam	B9.11.4 BJ	X				100	PT	NA	X	X	X	FW-22
R2-004	Pipe To Pipe Circ Seam	B9.11.4 BJ	X				100	UT	40816	X	X	X	FW-22
R2-005	Pipe To Ell Circ Seam	B9.11.5 BJ		X			100	PT	NA	X	X	X	FW-30
R2-005	Pipe To Ell Circ Seam	B9.11.5 BJ		X			100	UT	40816	X	X	X	FW-30
R2-006	Ell To Pipe Circ Seam	B9.11.6 BJ		X			100	PT	NA	X	X	X	FW-31
R2-006	Ell To Pipe Circ Seam	B9.11.6 BJ		X			100	UT	40816	X	X	X	FW-31
R2-007	Pipe To Red Circ Seam	B9.11.7 BJ		X			100	PT	NA	X	X	X	FW-32
R2-007	Pipe To Red Circ Seam	B9.11.7 BJ		X			100	UT	40816	X	X	X	FW-32
R2-008	Red To Tee Circ Seam	B9.11.8 BJ		X			100	PT	NA	X	X	X	FW-33
R2-008	Red To Tee Circ Seam	B9.11.8 BJ		X			100	UT	40816	X	X	X	FW-33
R2-009	Tee To Pipe Circ Seam	B9.11.9 BJ					100	PT	NA				FW-34
R2-009	Tee To Pipe Circ Seam	B9.11.9 BJ					100	UT	40816				FW-34
R2-010	Pipe To Valve Circ Seam	B9.11.10 BJ			X		100	PT	NA	X	X	X	FW-35
R2-010	Pipe To Valve Circ Seam	B9.11.10 BJ			X		100	UT	40816	X	X	X	FW-35
R2-011	Valve To Red Circ Seam	B9.11.11 BJ			X		100	PT	NA	X	X	X	FW-36
R2-011	Valve To Red Circ Seam	B9.11.11 BJ			X		100	UT	40816	X	X	X	FW-36
R2-012	Red To Valve Circ Seam	B9.11.12 BJ			X		100	PT	NA	X	X	X	FW-37
R2-012	Red To Valve Circ Seam	B9.11.12 BJ			X		100	UT	40816	X	X	X	FW-37
R2-013	Tee To Pipe Circ Seam	B9.11.13 BJ				X	100	PT	NA	X	X	X	FW-38
R2-013	Tee To Pipe Circ Seam	B9.11.13 BJ				X	100	UT	40816	X	X	X	FW-38
R2-014	Pipe To Pipe Circ Seam	B9.11.14 BJ				X	100	PT	NA	X	X	X	FW-52
R2-014	Pipe To Pipe Circ Seam	B9.11.14 BJ				X	100	UT	40816	X	X	X	FW-52
R2-015	Pipe To Pipe Circ Seam	B9.11.15 BJ				X	100	PT	NA	X	X	X	FW-39
R2-015	Pipe To Pipe Circ Seam	B9.11.15 BJ				X	100	UT	40816	X	X	X	FW-39
R2-016	Pipe To Ell Circ Seam	B9.11.16 BJ				X	100	PT	NA	X	X	X	FW-45
R2-016	Pipe To Ell Circ Seam	B9.11.16 BJ				X	100	UT	40816	X	X	X	FW-45
R2-017	Ell To Red Circ Seam	B9.11.17 BJ				X	100	PT	NA	X	X	X	FW-46

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-22

COMPONENT DESCRIPTION

HPI TO B1 LOOP

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP REQ S	I	WP	REMARKS
R2-017	Ell To Red Circ Seam	B9.11.17	BJ			X		100	UT	40816	X	X	X	FW-46
R2-018	Red To Pipe Circ Seam	B9.11.18	BJ			X		100	PT	NA	X	X	X	FW-47
R2-018	Red To Pipe Circ Seam	B9.11.18	BJ			X		100	UT	40816	X	X	X	FW-47
R2-019	Pipe To Valve Circ Seam	B9.11.19	BJ			X		100	PT	NA	X	X	X	FW-48
R2-019	Pipe To Valve Circ Seam	B9.11.19	BJ			X		100	UT	40816	X	X	X	FW-48
R2-020	Valve To Pipe Circ Seam	B9.11.20	BJ					100	PT	NA				FW-49
R2-020	Valve To Pipe Circ Seam	B9.11.20	BJ					100	UT	40816				FW-49
R2-021	Pipe To Red Circ Seam	B9.11.21	BJ					100	PT	NA				FW-50
R2-021	Pipe To Red Circ Seam	B9.11.21	BJ					100	UT	40816				FW-50
R2-022	Red To Pipe Circ Seam	B9.11.22	BJ					100	PT	NA				FW-51
R2-022	Red To Pipe Circ Seam	B9.11.22	BJ					100	UT	40816				FW-51
R2-023	Pipe To Ell Circ Seam	B9.11.23	BJ					100	PT	NA				HPI-B1-6
R2-023	Pipe To Ell Circ Seam	B9.11.23	BJ					100	UT	40816				HPI-B1-6
R2-024	Ell To Pipe Circ Seam	B9.11.24	BJ					100	PT	NA				HPI-B1-7
R2-024	Ell To Pipe Circ Seam	B9.11.24	BJ					100	UT	40816				HPI-B1-7
R2-025	Pipe To Ell Circ Seam	B9.11.25	BJ					100	PT	NA				HPI-B1-8
R2-025	Pipe To Ell Circ Seam	B9.11.25	BJ					100	UT	40816				HPI-B1-8
R2-026	Ell To Pipe Circ Seam	B9.11.26	BJ					100	PT	NA				HPI-B1-9
R2-026	Ell To Pipe Circ Seam	B9.11.26	BJ					100	UT	40816				HPI-B1-9
R2-027	Pipe To Pipe Circ Seam	B9.11.27	BJ					100	PT	NA				HPI-B1-10
R2-027	Pipe To Pipe Circ Seam	B9.11.27	BJ					100	UT	40816				HPI-B1-10
R2-028	Pipe To Ell Circ Seam	B9.11.28	BJ					100	PT	NA				HPI-B1-11
R2-028	Pipe To Ell Circ Seam	B9.11.28	BJ					100	UT	40816				HPI-B1-11
R2-029	Ell To Pipe Circ Seam	B9.11.29	BJ					100	PT	NA				HPI-B1-12
R2-029	Ell To Pipe Circ Seam	B9.11.29	BJ					100	UT	40816				HPI-B1-12
R2-030	Pipe To Ell Circ Seam	B9.11.30	BJ					100	PT	NA				HPI-B1-13
R2-030	Pipe To Ell Circ Seam	B9.11.30	BJ					100	UT	40816				HPI-B1-13
R2-031	Ell To Pipe Circ Seam	B9.11.31	BJ					100	PT	NA				HPI-B1-14
R2-031	Ell To Pipe Circ Seam	B9.11.31	BJ					100	UT	40816				HPI-B1-14
R2-032	Pipe To Ell Circ Seam	B9.11.32	BJ					100	PT	NA				HPI-B1-15
R2-032	Pipe To Ell Circ Seam	B9.11.32	BJ					100	UT	40816				HPI-B1-15
R2-033	Ell To Pipe Circ Seam	B9.11.33	BJ					100	PT	NA				HPI-B1-16
R2-033	Ell To Pipe Circ Seam	B9.11.33	BJ					100	UT	40816				HPI-B1-16

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 22

COMPONENT DESCRIPTION

HPI TO B1 LOOP

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R2-034	Pipe To Ell Circ Seam	B9.11.34 BJ					100	PT	NA				HPI-B1-17
R2-034	Pipe To Ell Circ Seam	B9.11.34 BJ					100	UT	40816				HPI-B1-17
R2-035	Ell To Pipe Circ Seam	B9.11.35 BJ					100	PT	NA				HPI-B1-18
R2-035	Ell To Pipe Circ Seam	B9.11.35 BJ					100	UT	40816				HPI-B1-18
R2-036	Pipe To Pipe Circ Seam	B9.11.36 BJ					100	PT	NA				HPI-B1-19
R2-036	Pipe To Pipe Circ Seam	B9.11.36 BJ					100	UT	40816				HPI-B1-19
R2-037	Pipe To Ell Circ Seam	B9.11.37 BJ					100	PT	NA				HPI-B1-20
R2-037	Pipe To Ell Circ Seam	B9.11.37 BJ					100	UT	40816				HPI-B1-20
R2-038	Ell To Pipe Circ Seam	B9.11.38 BJ					100	PT	NA				HPI-B1-21
R2-038	Ell To Pipe Circ Seam	B9.11.38 BJ					100	UT	40816				HPI-B1-21
R2-039	Pipe To Ell Circ Seam	B9.11.39 BJ					100	PT	NA				HPI-B1-22
R2-039	Pipe To Ell Circ Seam	B9.11.39 BJ					100	UT	40816				HPI-B1-22
R2-040	Ell To Pipe Circ Seam	B9.11.40 BJ					100	PT	NA				HPI-B1-23
R2-040	Ell To Pipe Circ Seam	B9.11.40 BJ					100	UT	40816				HPI-B1-23
R2-041	Pipe To Ell Circ Seam	B9.11.41 BJ					100	PT	NA				HPI-B1-24
R2-041	Pipe To Ell Circ Seam	B9.11.41 BJ					100	UT	40816				HPI-B1-24
R2-042	Ell To Pipe Circ Seam	B9.11.42 BJ					100	PT	NA				HPI-B1-25
R2-042	Ell To Pipe Circ Seam	B9.11.42 BJ					100	UT	40816				HPI-B1-25
R2-043	Pipe To Ell Circ Seam	B9.11.43 BJ					100	PT	NA				HPI-B1-26
R2-043	Pipe To Ell Circ Seam	B9.11.43 BJ					100	UT	40816				HPI-B1-26
R2-044	Ell To Pipe Circ Seam	B9.11.44 BJ					100	PT	NA				HPI-B1-27
R2-044	Ell To Pipe Circ Seam	B9.11.44 BJ					100	UT	40816				HPI-B1-27
R2-045	Pipe To Ell Circ Seam	B9.11.45 BJ					100	PT	NA				HPI-B1-28
R2-045	Pipe To Ell Circ Seam	B9.11.45 BJ					100	UT	40816				HPI-B1-28
R2-046	Ell To Pipe Circ Seam	B9.11.46 BJ					100	PT	NA				HPI-B1-29
R2-046	Ell To Pipe Circ Seam	B9.11.46 BJ					100	UT	40816				HPI-B1-29
R2-047	Pipe To Ell Circ Seam	B9.11.47 BJ					100	PT	NA				HPI-B1-30
R2-047	Pipe To Ell Circ Seam	B9.11.47 BJ					100	UT	40816				HPI-B1-30
R2-048	Ell To Pipe Circ Seam	B9.11.48 BJ					100	PT	NA				HPI-B1-31
R2-048	Ell To Pipe Circ Seam	B9.11.48 BJ					100	UT	40816				HPI-B1-31
R2-049	Pipe To Pipe Circ Seam	B9.11.49 BJ					100	PT	NA				HPI-B1-32
R2-049	Pipe To Pipe Circ Seam	B9.11.49 BJ					100	UT	40816				HPI-B1-32
R2-050	Pipe To Ell Circ Seam	B9.11.50 BJ					100	PT	NA				HPI-B1-33

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 22

COMPONENT DESCRIPTION

HPI TO B1 LOOP

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R2-050	Pipe To Ell Circ Seam	B9.11.50 BJ					100	UT	40816				HPI-B1-33
R2-051	Ell To Pipe Circ Seam	B9.11.51 BJ					100	PT	NA				HPI-B1-34
R2-051	Ell To Pipe Circ Seam	B9.11.51 BJ					100	UT	40816				HPI-B1-34
R2-052	Pipe To Ell Circ Seam	B9.11.52 BJ					100	PT	NA				HPI-B1-35
R2-052	Pipe To Ell Circ Seam	B9.11.52 BJ					100	UT	40816				HPI-B1-35
R2-053	Ell To Pipe Circ Seam	B9.11.53 BJ					100	PT	NA				HPI-B1-36
R2-053	Ell To Pipe Circ Seam	B9.11.53 BJ					100	UT	40816				HPI-B1-36
R2-054	Pipe To Ell Circ Seam	B9.11.54 BJ					100	PT	NA				HPI-B1-37
R2-054	Pipe To Ell Circ Seam	B9.11.54 BJ					100	UT	40816				HPI-B1-37
R2-055	Ell To Pipe Circ Seam	B9.11.55 BJ					100	PT	NA				HPI-B1-38
R2-055	Ell To Pipe Circ Seam	B9.11.55 BJ					100	UT	40816				HPI-B1-38
R2-056	Pipe To Pipe Circ Seam	B9.11.56 BJ					100	PT	NA				HPI-B1-39
R2-056	Pipe To Pipe Circ Seam	B9.11.56 BJ					100	UT	40816				HPI-B1-39
R2-057	Pipe To Ell Circ Seam	B9.11.57 BJ					100	PT	NA				HPI-B1-40
R2-057	Pipe To Ell Circ Seam	B9.11.57 BJ					100	UT	40816				HPI-B1-40
R2-058	Ell To Pipe Circ Seam	B9.11.58 BJ					100	PT	NA				HPI-B1-41
R2-058	Ell To Pipe Circ Seam	B9.11.58 BJ					100	UT	40816				HPI-B1-41
R2-059	Pipe To Pipe Circ Seam	B9.11.59 BJ					100	PT	NA				HPI-B1-42
R2-059	Pipe To Pipe Circ Seam	B9.11.59 BJ					100	UT	40816				HPI-B1-42
R2-060	Pipe To Valve Circ Seam	B9.11.60 BJ					100	PT	NA				HPI-B1-43
R2-060	Pipe To Valve Circ Seam	B9.11.60 BJ					100	UT	40816				HPI-B1-43
R2-061	Valve To Ell Circ Seam	B9.11.61 BJ					100	PT	NA				HPI-B1-44
R2-061	Valve To Ell Circ Seam	B9.11.61 BJ					100	UT	40816				HPI-B1-44
R2-062	Ell To Pipe Circ Seam	B9.11.62 BJ					100	PT	NA				HPI-B1-45
R2-062	Ell To Pipe Circ Seam	B9.11.62 BJ					100	UT	40816				HPI-B1-45
R2-063	Pipe To Pipe Circ Seam	B9.11.63 BJ					100	PT	NA				HPI-B1-46
R2-063	Pipe To Pipe Circ Seam	B9.11.63 BJ					100	UT	40816				HPI-B1-46
R2-064	Pipe To Ell Circ Seam	B9.11.64 BJ					100	PT	NA				HPI-B1-47
R2-064	Pipe To Ell Circ Seam	B9.11.64 BJ					100	UT	40816				HPI-B1-47
R2-065	Ell To Pipe Circ Seam	B9.11.65 BJ					100	PT	NA				HPI-B1-48
R2-065	Ell To Pipe Circ Seam	B9.11.65 BJ					100	UT	40816				HPI-B1-48
R2-066	Pipe To Valve Circ Seam	B9.11.66 BJ					100	PT	NA				HPI-B1-49
R2-066	Pipe To Valve Circ Seam	B9.11.66 BJ					100	UT	40816				HPI-B1-49

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-22

COMPONENT DESCRIPTION

HPI TO B1 LOOP

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B2-067	Valve To Pipe Circ Seam	B9.11.67	BJ					100	PT	NA				HPI-B1-50
B2-067	Valve To Pipe Circ Seam	B9.11.67	BJ					100	UT	40816				HPI-B1-50
B2-068	Pipe To Pipe Circ Seam	B9.11.68	BJ					100	PT	NA				HPI-B1-51
B2-068	Pipe To Pipe Circ Seam	B9.11.68	BJ					100	UT	40816				HPI-B1-51
B2-069	Pipe To Ell Circ Seam	B9.11.69	BJ					100	PT	NA				HPI-B1-52
B2-069	Pipe To Ell Circ Seam	B9.11.69	BJ					100	UT	40816				HPI-B1-52
B2-070	Ell To Pipe Circ Seam	B9.11.70	BJ					100	PT	NA				HPI-B1-53
B2-070	Ell To Pipe Circ Seam	B9.11.70	BJ					100	UT	40816				HPI-B1-53
B2-071	Pipe To P32A Disch Safe End	B5.50.1	BF			X		100	PT	NA	X	X	X	Safe End
B2-071	Pipe To P32A Disch Safe End	B5.50.1	BF			X		100	UT	40816	X	X	X	Safe End
B2-072	4" Valve MU-1224	B12.40.1	BM2			X		100	VT-3	NA	X	X	X	Internal Surface
B2-073	3" Valve MU-1215	B12.40.2	BM2			X		100	VT-3	NA	X	X	X	Internal Surface
B2-074	2" Valve CV-1228	B12.40.3	BM2			X		100	VT-3	NA	X	X	X	Internal Surface
B2-075	2" Valve MU-1234	B12.40.4	BM2	NOT REQ'D.				100	VT-3	NA				Internal Surface
B2-076	2 ½" Valve MU-34A	B12.40.5	BM2	NOT REQ'D.				100	VT-3	NA	X	X	X	Internal Surface
B2-077	2 ½" Valve MU-45A	B12.40.6	BM2			X		100	VT-3	NA				Internal Surface
B2-078	Valve MU-1224 Bolts-Studs-Nuts	B7.70.1	BG2			X		100	VT-1	NA	X	X	X	
B2-079	Valve MU-1215 Bolts-Studs-Nuts	B7.70.2	BG2			X		100	VT-1	NA	X	X	X	
B2-080	Valve CV-1228 Bolts-Studs-Nuts	B7.70.3	BG2			X		100	VT-1	NA	X	X	X	
B2-081	Valve MU-1234 Bolts-Studs-Nuts	B7.70.4	BG2	NOT REQ'D.				100	VT-1	NA				
B2-082	Valve MU-34A Bolts-Studs-Nuts	B7.70.5	BG2	NOT REQ'D.				100	VT-1	NA				
B2-083	Valve MU-45A Bolts-Studs-Nuts	B7.70.6	BG2			X		100	VT-1	NA	X	X	X	
B2-084	Pump P32A	B12.20.1	BL2			X		100	VT-3	NA				Internal Surfaces
B2-085	Pump P32A Bolts & Studs	B6.180.1	BGI			X		100	VT-1	NA				All Studs & Bolts
B2-086	Pump P32A Nuts & Washers	B6.200.1	BGI			X		100	VT-1	NA				All Nuts & Washers
B2-087	Pump P32A Flange Surfaces	B6.140.1	BGI			X		100	VT-1	NA				
B2-088	Spring Hanger MU-101	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#1-539
B2-089	Guide MU-175	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-527
B2-090	Guide MU-176	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-528
B2-091	Guide MU-177	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-530
B2-092	Rigid Hanger MU-178	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-531
B2-093	Guide MU-179	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-532
B2-094	Guide MU-180	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-505

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 22

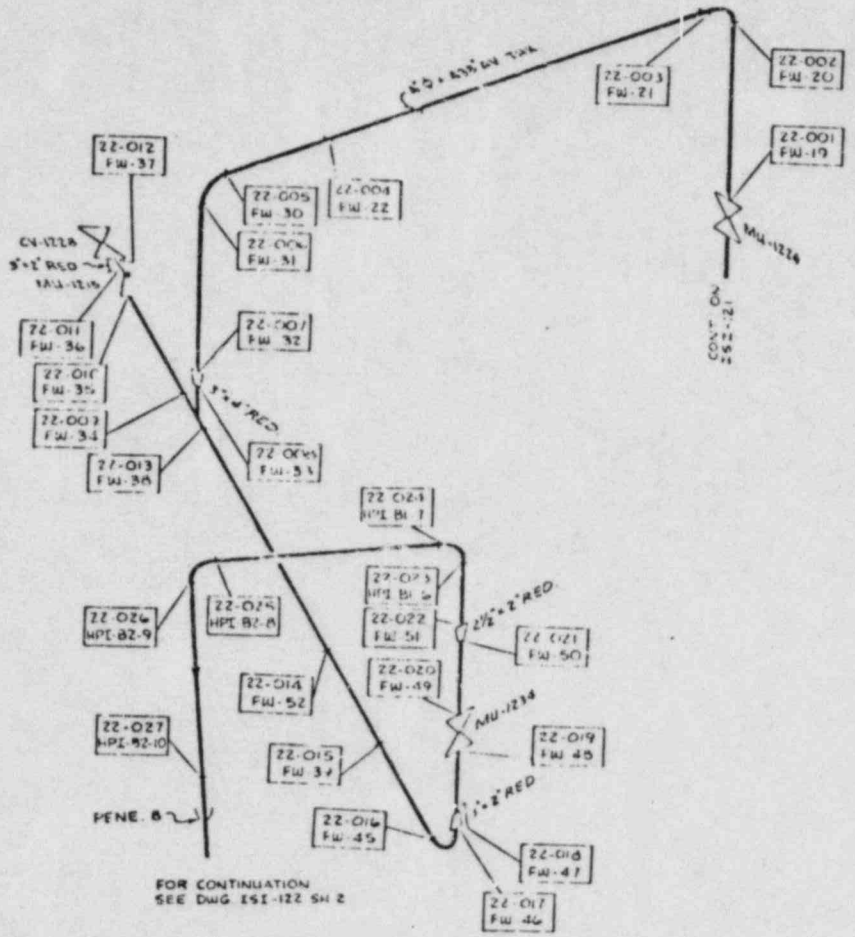
COMPONENT DESCRIPTION

HPI TO B1 LOOP

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R2-095	Guide MU-181	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-507
R2-096	Guide MU-182	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-509
R2-097	Guide MU-183	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-511
R2-098	Guide MU-184	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-513
R2-099	Guide Stop MU-185	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-533
R2-100	Rigid Hanger MU-186	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-536
R2-101	Guide Stop MU-188	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-538
R2-102	Guide MU-189	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-540
R2-103	Guide MU-150	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#1-533
R2-104	Pressure Retaining Boundry	B5.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
R2-105	Pressure Retaining Boundry	B5.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
R2-106	Pressure Retaining Boundry	B5.60	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
R2-107	Pressure Retaining Boundry	B5.61	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
R2-108	Pressure Retaining Boundry	B5.70	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
R2-109	Pressure Retaining Boundry	B5.71	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest



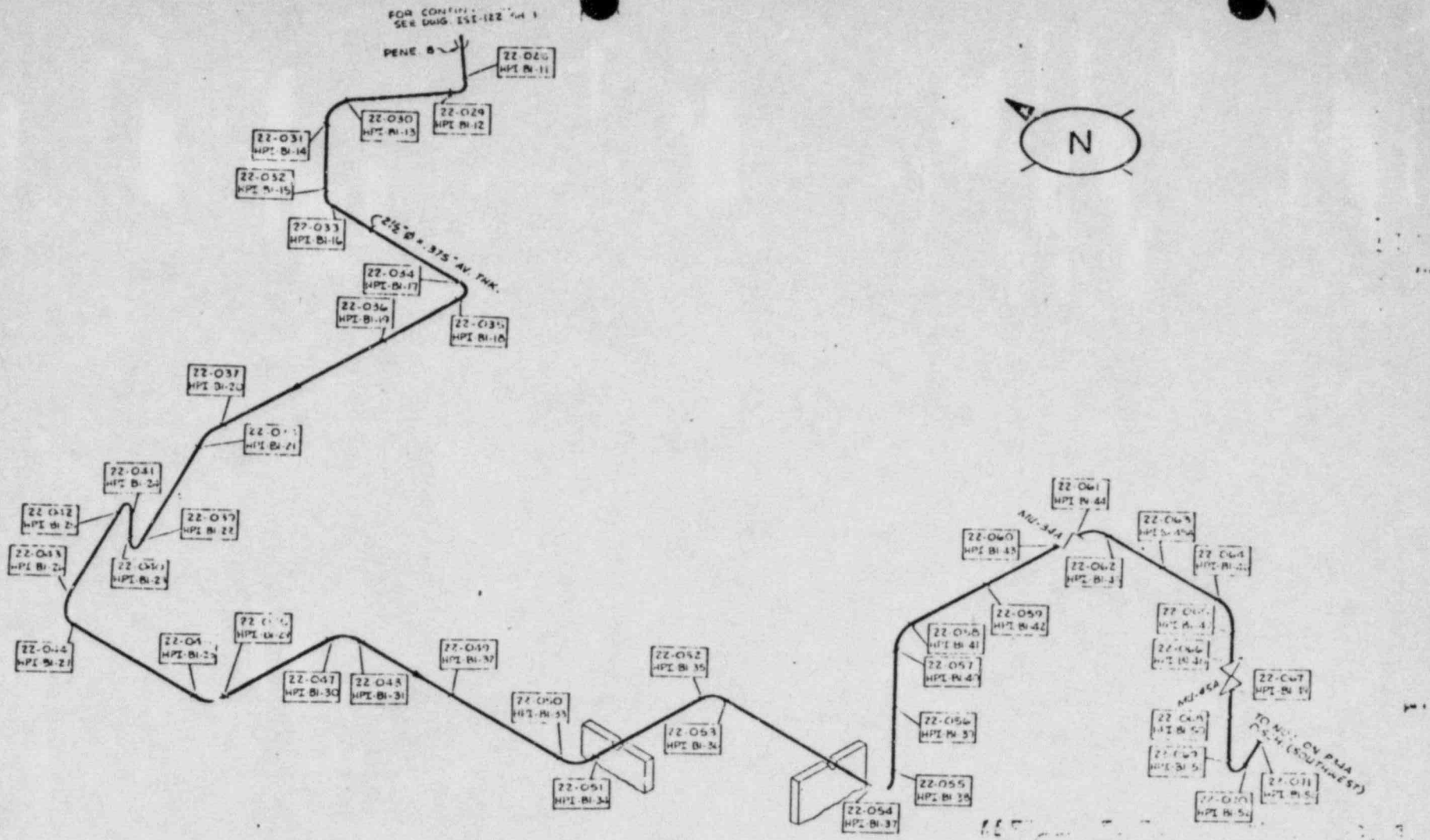
NO	DATE	REVISION	BY	CHKD
0	7/76	ISSUED PER I.S.I.	RJ	JJ

SCALE — DESIGN B.S.W. DRAWN B. JONES

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

HPI TO BI LOOP
ZONE 22

DRAW NO NO: ISI-122 SHT. 1 OF 2 REV. 0



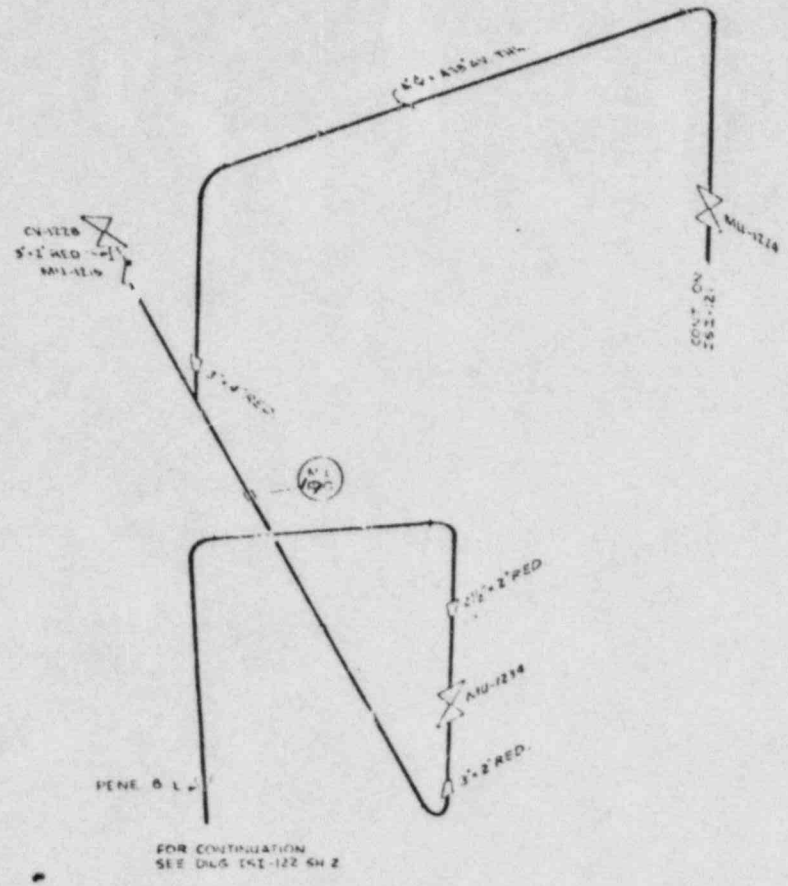
0	5/81	ISSUED PER I S I.	RJ		
NO	DATE	REVISION	BY		

SCALE — — — DESIGN R.S.M. DRAWN R. JONES

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

HPI TO BI LOOP
ZONE 22

DRAWING NO. ISI-122 SHT. 2 OF 3 REV. 0



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

HPI TO BI LOOP
ZONE 22

ISI-122H

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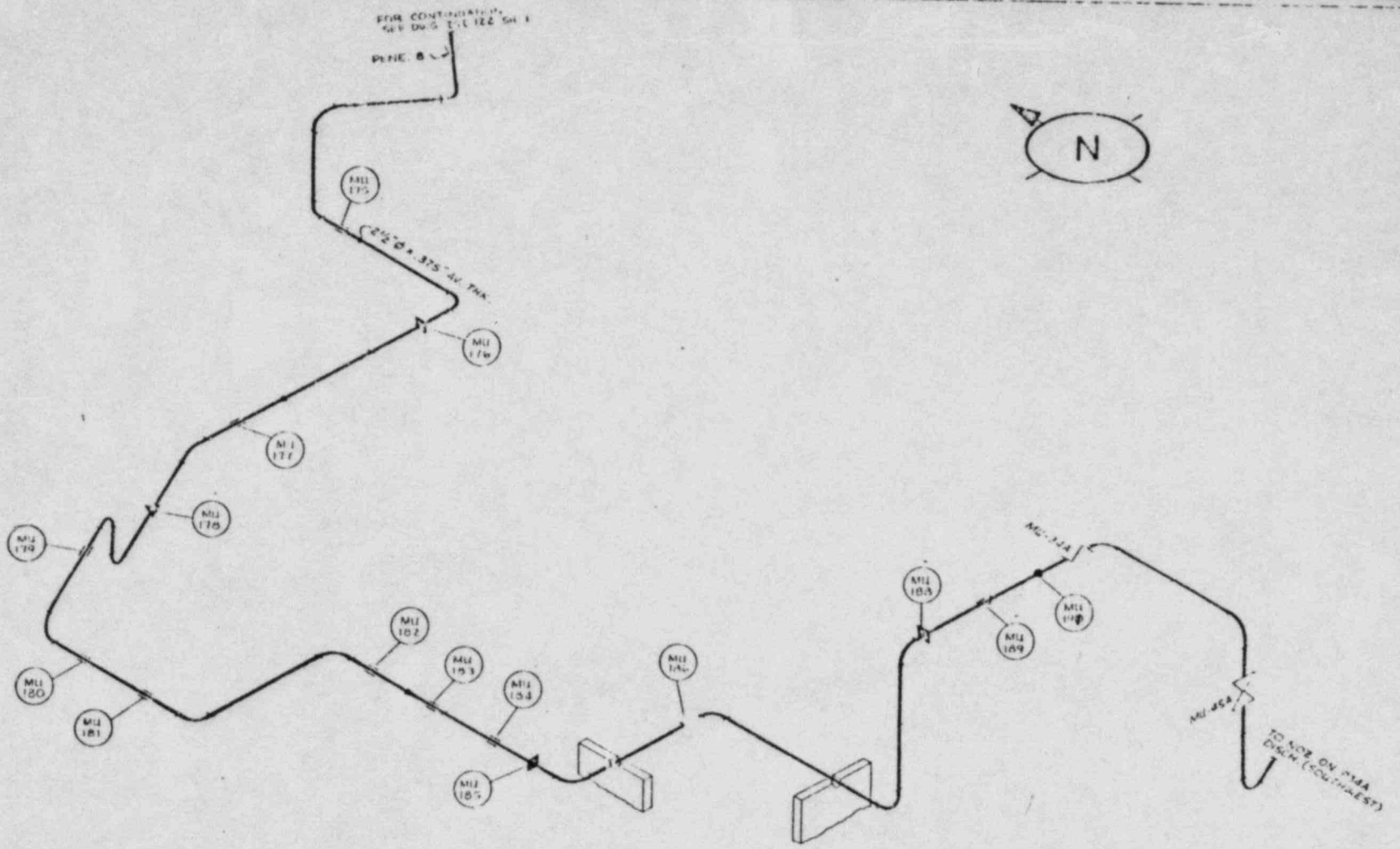

0		ISSUED FOR I.S.I.	R.J.	A.	DP
NO	DATE	REVISION	BY	CHKD	APP'D
A.E. NINE		FISCHER & PORTER		CHKD R. JONES	

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

HPI TO BI LOOP
ZONE 22

DRAWING NO. 1SI-122H2 REV. 0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 23

COMPONENT DESCRIPTION

HPI TO B2 LOOP

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
23-001	Valve To Pipe Circ Seam	B9.11.1 BJ					100	PT	NA				HPI-B2-1
23-001	Valve To Pipe Circ Seam	B9.11.1 BJ					100	UT	40816				HPI-B2-1
23-002	Pipe To Pipe Circ Seam	B9.11.2 BJ					100	PT	NA				HPI-B2-2
23-002	Pipe To Pipe Circ Seam	B9.11.2 BJ					100	UT	40816				HPI-B2-2
23-003	Pipe To Ell Circ Seam	B9.11.3 BJ					100	PT	NA				HPI-B2-3
23-003	Pipe To Ell Circ Seam	B9.11.3 BJ					100	UT	40816				HPI-B2-3
23-004	Ell To Pipe Circ Seam	B9.11.4 BJ					100	PT	NA				HPI-B2-4
23-004	Ell To Pipe Circ Seam	B9.11.4 BJ					100	UT	40816				HPI-B2-4
23-005	Pipe To Red Circ Seam	B9.11.5 BJ					100	PT	NA				FW-59
23-005	Pipe To Red Circ Seam	B9.11.5 BJ					100	UT	40816				FW-59
23-006	Red To Valve Circ Seam	B9.11.6 BJ					100	PT	NA				FW-58
23-006	Red To Valve Circ Seam	B9.11.6 BJ					100	UT	40816				FW-58
23-007	Valve To Pipe Circ Seam	B9.11.7 BJ					100	PT	NA				FW-57
23-007	Valve To Pipe Circ Seam	B9.11.7 BJ					100	UT	40816				FW-57
23-008	Pipe To Pipe Circ Seam	B9.11.8 BJ					100	PT	NA				FW-49
23-008	Pipe To Pipe Circ Seam	B9.11.8 BJ					100	UT	40816				FW-49
23-009	Pipe To Tee Circ Seam	B9.11.9 BJ					100	PT	NA				FW-48
23-009	Pipe To Tee Circ Seam	B9.11.9 BJ					100	UT	40816				FW-48
23-010	Tee To Red Circ Seam	B9.11.10 BJ					100	PT	NA				FW-63
23-010	Tee To Red Circ Seam	B9.11.10 BJ					100	UT	40816				FW-63
23-011	Red To Ell Circ Seam	B9.11.11 BJ					100	PT	NA				FW-1
23-011	Red To Ell Circ Seam	B9.11.11 BJ					100	UT	40816				FW-1
23-012	Ell To Pipe Circ Seam	B9.11.12 BJ					100	PT	NA				FW-2
23-012	Ell To Pipe Circ Seam	B9.11.12 BJ					100	UT	40816				FW-2
23-013	Pipe To Ell Circ Seam	B9.11.13 BJ					100	PT	NA				FW-3
23-013	Pipe To Ell Circ Seam	B9.11.13 BJ					100	UT	40816				FW-3
23-014	Ell To Pipe Circ Seam	B9.11.14 BJ					100	PT	NA				FW-4
23-014	Ell To Pipe Circ Seam	B9.11.14 BJ					100	UT	40816				FW-4
23-015	Pipe To Ell Circ Seam	B9.11.15 BJ					100	PT	NA				FW-5
23-015	Pipe To Ell Circ Seam	B9.11.15 BJ					100	UT	40816				FW-5
23-016	Ell To Valve Circ Seam	B9.11.16 BJ					100	PT	NA				FW-6
23-016	Ell To Valve Circ Seam	B9.11.16 BJ					100	UT	40816				FW-6
23-017	Tee To Pipe Circ Seam	B9.11.17 BJ				X	100	PT	NA	X	X	X	FW-43

FORM ENG-011 | PROGRAM PLAN AND SCHEDULE | REVISED 12/01/83

ANO-UNIT-ONE | ZONE- 23 | PAGE-2 of 6

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS-1

HPI TO B2 LOOP

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R3-017	Tee To Pipe Circ Seam	B9.11.17 BJ			X		100	UT	40816	X	X	X	FW-43
R3-018	Pipe To Valve Circ Seam	B9.11.18 BJ			X		100	PT	NA	X	X	X	FW-44
R3-018	Pipe To Valve Circ Seam	B9.11.18 BJ			X		100	UT	40816	X	X	X	FW-44
R3-019	Valve To Pipe Circ Seam	B9.11.19 BJ			X		100	PT	NA	X	X	X	FW-45
R3-019	Valve To Pipe Circ Seam	B9.11.19 BJ			X		100	UT	40816	X	X	X	FW-45
R3-020	Pipe To Red Circ Seam	B9.11.20 BJ		X			100	PT	NA	X	X	X	FW-46
R3-020	Pipe To Red Circ Seam	B9.11.20 BJ		X			100	UT	40816	X	X	X	FW-46
R3-021	Red To Pipe Circ Seam	B9.11.21 BJ		X			100	PT	NA	X	X	X	FW-47
R3-021	Red To Pipe Circ Seam	B9.11.21 BJ		X			100	UT	40816	X	X	X	FW-47
R3-022	Pipe To 45 Ell Circ Seam	B9.11.22 BJ		X			100	PT	NA	X	X	X	HPI-B2-7
R3-022	Pipe to 45 Ell Circ Seam	B9.11.22 BJ		X			100	UT	40816	X	X	X	HPI-B2-7
R3-023	45 Ell To Pipe Circ Seam	B9.11.23 BJ		X			100	PT	NA	X	X	X	HPI-B2-8
R3-023	45 Ell To Pipe Circ Seam	B9.11.23 BJ		X			100	UT	40816	X	X	X	HPI-B2-8
R3-024	Pipe To Pipe Circ Seam,	B9.11.24 BJ		X			100	PT	NA	X	X	X	HPI-B2-9
R3-024	Pipe To Pipe Circ Seam	B9.11.24 BJ		X			100	UT	40816	X	X	X	HPI-B2-9
R3-025	Pipe To Ell Circ Seam	B9.11.25 BJ		X			100	PT	NA	X	X	X	HPI-B2-11
R3-025	Pipe To Ell Circ Seam	B9.11.25 BJ		X			100	UT	40816	X	X	X	HPI-B2-11
R3-026	Ell To Pipe Circ Seam	B9.11.26 BJ	X				100	PT	NA	X	X	X	HPI-B2-12
R3-026	Ell To Pipe Circ Seam	B9.11.26 BJ	X				100	UT	40816	X	X	X	HPI-B2-12
R3-027	Pipe To Ell Circ Seam	B9.11.27 BJ	X				100	PT	NA	X	X	X	HPI-B2-13
R3-027	Pipe to Ell Circ Seam	B9.11.27 BJ	X				100	UT	40816	X	X	X	HPI-B2-13
R3-028	Ell To Pipe Circ Seam	B9.11.28 BJ	X				100	PT	NA	X	X	X	HPI-B2-14
R3-028	Ell To Pipe Circ Seam	B9.11.28 BJ	X				100	UT	40816	X	X	X	HPI-B2-14
R3-029	Pipe To Ell Circ Seam	B9.11.29 BJ	X				100	PT	NA	X	X	X	HPI-B2-15
R3-029	Pipe To Ell Circ Seam	B9.11.29 BJ	X				100	UT	40816	X	X	X	HPI-B2-15
R3-030	Ell To Pipe Circ Seam	B9.11.30 BJ	X				100	PT	NA	X	X	X	HPI-B2-16
R3-030	Ell To Pipe Circ Seam	B9.11.30 BJ	X				100	UT	40816	X	X	X	HPI-B2-16
R3-031	Pipe To 30 Ell Circ Seam	B9.11.31 BJ	X				100	PT	NA	X	X	X	HPI-B2-17
R3-031	Pipe To 30 Ell Circ Seam	B9.11.31 BJ	X				100	UT	40816	X	X	X	HPI-B2-17
R3-032	30 Ell To Pipe Circ Seam	B9.11.32 BJ	X				100	PT	NA	X	X	X	HPI-B2-18
R3-032	30 Ell To Pipe Circ Seam	B9.11.32 BJ	X				100	UT	40816	X	X	X	HPI-B2-18
R3-033	Pipe To Ell Circ Seam	B9.11.33 BJ					100	PT	NA				HPI-B2-19
R3-033	Pipe To Ell Circ Seam	B9.11.33 BJ					100	UT	40816				HPI-B2-19

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 23

COMPONENT DESCRIPTION

HPI TO B2 LOOP

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B3-034	Ell To Pipe Circ Seam	B9.11.34 BJ					100	PT	NA				HPI-B2-20
B3-034	Ell To Pipe Circ Seam	B9.11.34 BJ					100	UT	40816				HPI-B2-20
B3-035	Pipe To Ell Circ Seam	B9.11.35 BJ					100	PT	NA				HPI-B2-21
B3-035	Pipe To Ell Circ Seam	B9.11.35 BJ					100	UT	40816				HPI-B2-21
B3-036	Ell To Pipe Circ Seam	B9.11.36 BJ					100	PT	NA				HPI-B2-22
B3-036	Ell To Pipe Circ Seam	B9.11.36 BJ					100	UT	40816				HPI-B2-22
B3-037	Pipe To 60 Ell Circ Seam	B9.11.37 BJ					100	PT	NA				HPI-B2-23
B3-037	Pipe To 60 Ell Circ Seam	B9.11.37 BJ					100	UT	40816				HPI-B2-23
B3-038	60 Ell To Pipe Circ Seam	B9.11.38 BJ					100	PT	NA				HPI-B2-24
B3-038	60 Ell To Pipe Circ Seam	B9.11.38 BJ					100	UT	40816				HPI-B2-24
B3-039	Pipe To Ell Circ Seam	B9.11.39 BJ					100	PT	NA				HPI-B2-25
B3-039	Pipe To Ell Circ Seam	B9.11.39 BJ					100	UT	40816				HPI-B2-25
B3-040	Ell To Pipe Circ Seam	B9.11.40 BJ					100	PT	NA				HPI-B2-26
B3-040	Ell To Pipe Circ Seam	B9.11.40 BJ					100	UT	40816				HPI-B2-26
B3-041	Pipe To Ell Circ Seam	B9.11.41 BJ					100	PT	NA				HPI-B2-27
B3-041	Pipe To Ell Circ Seam	B9.11.41 BJ					100	UT	40816				HPI-B2-27
B3-042	Ell To Pipe Circ Seam	B9.11.42 BJ					100	PT	NA				HPI-B2-28
B3-042	Ell To Pipe Circ Seam	B9.11.42 BJ					100	UT	40816				HPI-B2-28
B3-043	Pipe To Pipe Circ Seam	B9.11.43 BJ					100	PT	NA				HPI-B2-29
B3-043	Pipe To Pipe Circ Seam	B9.11.43 BJ					100	UT	40816				HPI-B2-29
B3-044	Pipe To Ell Circ Seam	B9.11.44 BJ					100	PT	NA				HPI-B2-30
B3-044	Pipe To Ell Circ Seam	B9.11.44 BJ					100	UT	40816				HPI-B2-30
B3-045	Ell To Pipe Circ Seam	B9.11.45 BJ					100	PT	NA				HPI-B2-31
B3-045	Ell To Pipe Circ Seam	B9.11.45 BJ					100	UT	40816				HPI-B2-31
B3-046	Pipe To Ell Circ Seam	B9.11.46 BJ					100	PT	NA				HPI-B2-32
B3-046	Pipe To Ell Circ Seam	B9.11.46 BJ					100	UT	40816				HPI-B2-32
B3-047	Ell To Pipe Circ Seam	B9.11.47 BJ					100	PT	NA				HPI-B2-33
B3-047	Ell To Pipe Circ Seam	B9.11.47 BJ					100	UT	40816				HPI-B2-33
B3-048	Pipe To Ell Circ Seam	B9.11.48 BJ					100	PT	NA				HPI-B2-34
B3-048	Pipe To Ell Circ Seam	B9.11.48 BJ					100	UT	40816				HPI-B2-34
B3-049	Ell To Pipe Circ Seam	B9.11.49 BJ					100	PT	NA				HPI-B2-35
B3-049	Ell To Pipe Circ Seam	B9.11.49 BJ					100	UT	40816				HPI-B2-35
B3-050	Pipe To Pipe Circ Seam	B9.11.50 BJ					100	PT	NA				HPI-B2-36

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ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 23

COMPONENT DESCRIPTION

HPI TO B2 LOOP

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R3-050	Pipe To Pipe Circ Seam	B9.11.50	BJ					100	UT	40816				HPI-B2-36
R3-051	Pipe To Ell Circ Seam	B9.11.51	BJ					100	PT	NA				HPI-B2-37
R3-051	Pipe To Ell Circ Seam	B9.11.51	BJ					100	UT	40816				HPI-B2-37
R3-052	Ell To Pipe Circ Seam	B9.11.52	BJ					100	PT	NA				HPI-B2-38
R3-052	Ell To Pipe Circ Seam	B9.11.52	BJ					100	UT	40816				HPI-B2-38
R3-053	Pipe To Pipe Circ Seam	B9.11.53	BJ					100	PT	NA				HPI-B2-39
R3-053	Pipe To Pipe Circ Seam	B9.11.53	BJ					100	UT	40816				HPI-B2-39
R3-054	Pipe To Pipe Circ Seam	B9.11.54	BJ					100	PT	NA				HPI-B2-40
R3-054	Pipe To Pipe Circ Seam	B9.11.54	BJ					100	UT	40816				HPI-B2-40
R3-055	Pipe To Valve Circ Seam	B9.11.55	BJ					100	PT	NA				HPI-B2-41
R3-055	Pipe To Valve Circ Seam	B9.11.55	BJ					100	UT	40816				HPI-B2-41
R3-056	Valve To Ell Circ Seam	B9.11.56	BJ					100	PT	NA				HPI-B2-42
R3-056	Valve To Ell Circ Seam	B9.11.56	BJ					100	UT	40816				HPI-B2-42
R3-057	Ell To Pipe Circ Seam	B9.11.57	BJ					100	PT	NA				HPI-B2-42A
R3-057	Ell To Pipe Circ Seam	B9.11.57	BJ					100	UT	40816				HPI-B2-42A
R3-058	Pipe To Pipe Circ Seam	B9.11.58	BJ					100	PT	NA				HPI-B2-43
R3-058	Pipe To Pipe Circ Seam	B9.11.58	BJ					100	UT	40816				HPI-B2-43
R3-059	Pipe To Ell Circ Seam	B9.11.59	BJ					100	PT	NA				HPI-B2-44
R3-059	Pipe To Ell Circ Seam	B9.11.59	BJ					100	UT	40816				HPI-B2-44
R3-060	Ell To Pipe Circ Seam	B9.11.60	BJ					100	PT	NA				HPI-B2-45
R3-060	Ell To Pipe Circ Seam	B9.11.60	BJ					100	UT	40816				HPI-B2-45
R3-061	Pipe To Valve Circ Seam	B9.11.61	BJ					100	PT	NA				HPI-B2-46
R3-061	Pipe To Valve Circ Seam	B9.11.61	BJ					100	UT	40816				HPI-B2-46
R3-062	Valve To Pipe Circ Seam	B9.11.62	BJ					100	PT	NA				HPI-B2-47
R3-062	Valve To Pipe Circ Seam	B9.11.62	BJ					100	UT	40816				HPI-B2-47
R3-063	Pipe To Ell Circ Seam	B9.11.63	BJ					100	PT	NA				HPI-B2-48
R3-063	Pipe To Ell Circ Seam	B9.11.63	BJ					100	UT	40816				HPI-B2-48
R3-064	Ell To Pipe Circ Seam	B9.11.64	BJ					100	PT	NA				HPI-B2-49
R3-064	Ell To Pipe Circ Seam	B9.11.64	BJ					100	UT	40816				HPI-B2-49
R3-065	Pipe To P32B Disch Safe End	B5.50.1	BF	X				100	PT	NA	X	X	X	Safe End
R3-065	Pipe To P32B Disch Safe End	B5.50.1	BF	X				100	UT	40816	X	X	X	Safe End
R3-066	4 ½" Valve CV-1227	B12.40.1	BM2				X	100	VT-3	NA	X	X	X	Internal Surfaces
R3-067	3" Valve MU-1214	B12.40.2	BM2	NOT	REQ.			100	VT-3	NA				Internal Surfaces

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE-23

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PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

HPI TO B2 LOOP

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B3-068	8" Valve MU-1233	B12.40.3	BM2			X		100	VT-3	NA	X	X	X	Internal Surfaces
B3-069	4" Valve MU-1223	B12.40.4	BM2			X		100	VT-3	NA	X	X	X	Internal Surfaces
B3-070	2 ½" Valve MU-45B	B12.40.5	BM2	NOT REQ.				100	VT-3	NA				Internal Surfaces
B3-071	Valve CV-1227 Bolts-Studs-Nuts	B7.70.1	BG2			X		100	VT-1	NA	X	X		
B3-072	Valve MU-1214 Bolts-Studs-Nuts	B7.70.2	BG2	NOT REQ.				100	VT-1	NA				
B3-073	Valve MU-1233 Bolts-Studs-Nuts	B7.70.3	BG2			X		100	VT-1	NA	X	X		
B3-074	Valve MU-1223 Bolts-Studs-Nuts	B7.70.4	BG2			X		100	VT-1	NA	X	X		
B3-075	Valve MU-45B Bolts-Studs-Nuts	B7.70.5	BG2	NOT REQ.				100	VT-1	NA				
B3-076	Pump P32B Casing	B12.20.1	BL2			X		100	VT-3	NA	X	X	X	Internal Surfaces
B3-077	Pump P32B Studs & Bolts	B6.180.1	BG1			X		100	UT		X	X	X	
B3-078	Pump P32B Nuts & Washers	B6.200.1	BG1			X		100	VT-1	NA	X	X	X	
B3-079	Pump P32B Flange Surfaces	B6.190.1	BG1			X		100	VT-1	NA	X	X	X	
B3-080	Guide Stop MU-169	B10.10.1	BK1		X			100	UT PT	40816	X	X	X	SK#1-521
B3-081	Guide MU-154	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-500
B3-082	Guide MU-156	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-502
B3-083	Rigid Guide MU-157	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-503
B3-084	Guide MU-158	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-504
B3-085	Guide MU-159	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-505
B3-086	Guide MU-160	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-507
B3-087	Guide MU-161	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-509
B3-088	Guide MU-162	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-511
B3-089	Guide MU-163	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-513
B3-090	Rigid Hanger MU-164	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-514
B3-091	Guide MU-165	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-515
B3-092	Guide MU-166	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#1-516
B3-093	Guide MU-168	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#1-519
B3-094	Guide Stop MU-169	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#1-521
B3-095	Restraint MU-167	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#1-518
B3-096	Spring Hanger MU-170	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#1-522
B3-097	Spring Hanger MU-153	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#1-2-532
B3-098	Spring Hanger MU-402	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	CCA-5-MU-402
B3-099	Pressure Retaining Boundry	B15.50		X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B3-100	Pressure Retaining Boundry	B15.51					X	100	VT-2	NA	NA	NA	NA	System Hydrotest

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 23

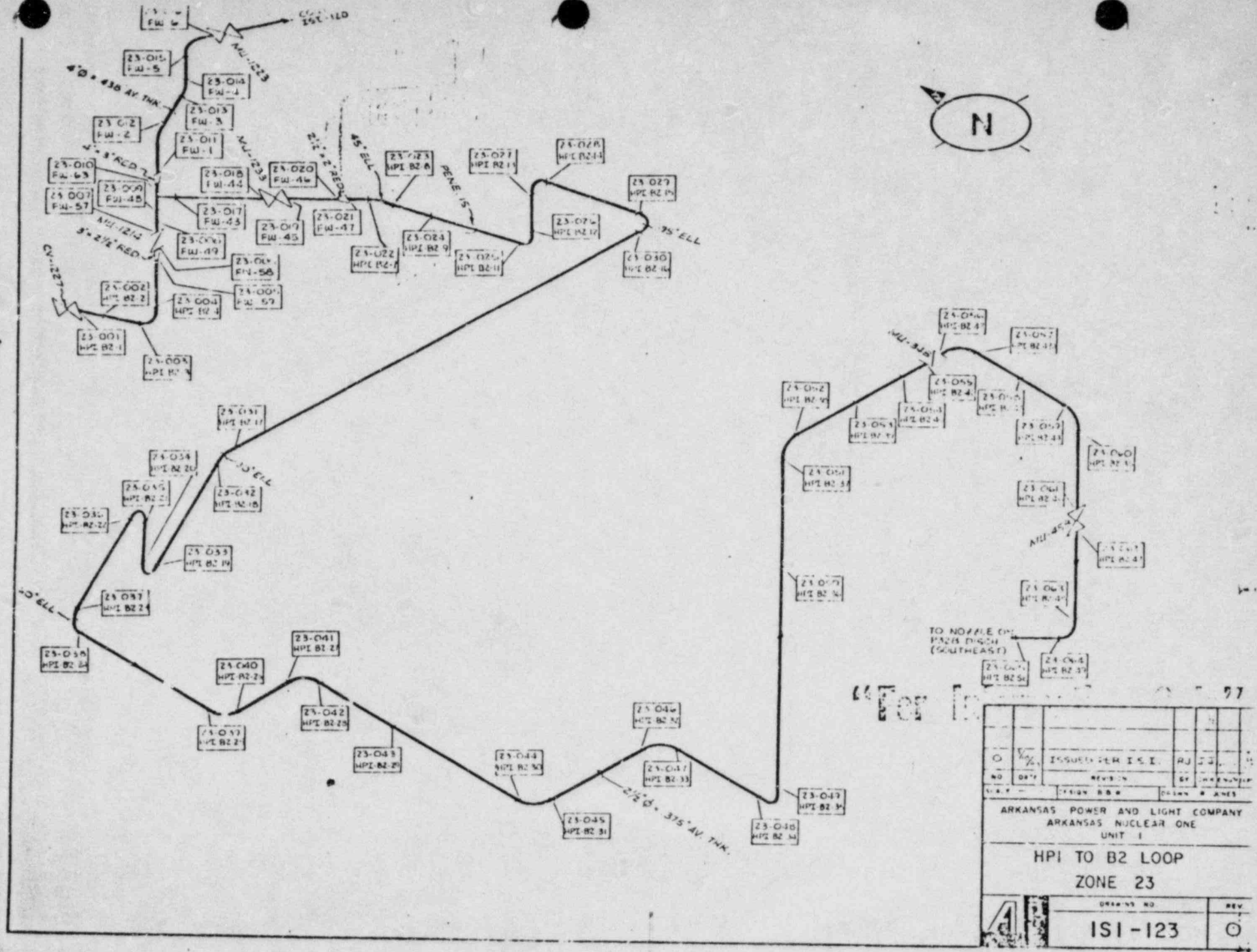
COMPONENT DESCRIPTION

HPI TO B2 LOOP

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B3-101	Pressure Retaining Boundry	B15.60	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B3-102	Pressure Retaining Boundry	B15.61				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B3-103	Pressure Retaining Boundry	B15.70	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B3-104	Pressure Retaining Boundry	B15.71				X	100	VT-2	NA	NA	NA	NA	System Hydrotest


N
4"Ø x .438 AV. THK.
4" x 3" RED.
3" x 2½" RED.
2½" x 2" RED.
45° ELL
PENE. 15
75° ELL
90° ELL
90° ELL
2½"Ø x .375 AV. THK.
TO NOZZLE ON P32B DISCH (SOUTHEAST)
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
HPI TO B2 LOOP
ZONE 23
ISSUED FOR I.S.I.
ISI-123
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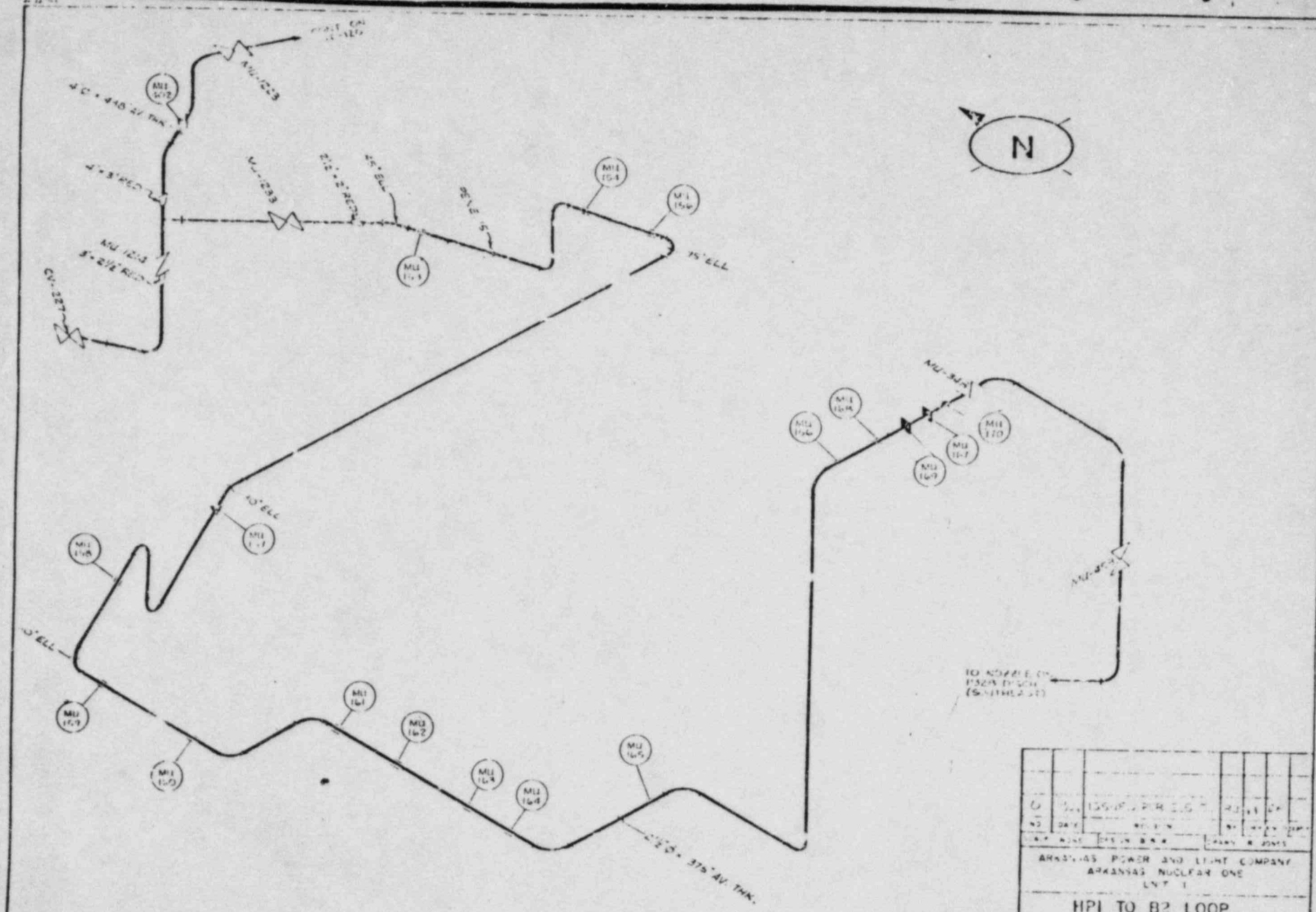

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

HPI TO B2 LOOP
ZONE 23

ISI-123H

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FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

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PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-1

LETDOWN COOLER & DRAIN

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R4-001	Red To Tee Circ Seam	B9.11.1 BJ			X		100	PT	NA	X	X	X	LDC-1
R4-001	Red To Tee Circ Seam	B9.11.1 BJ			X		100	UT	40813	X	X	X	LDC-1
R4-002	Tee To Pipe Circ Seam	B9.11.2 BJ					100	PT	NA				LDC-3
R4-002	Tee To Pipe Circ Seam	B9.11.2 BJ					100	UT	40813				LDC-3
R4-003	Tee To Pipe Circ Seam	B9.11.3 BJ		X			100	PT	NA	X	X	X	LDC-4
R4-003	Tee To Pipe Circ Seam	B9.11.3 BJ		X			100	UT	40813	X	X	X	LDC-4
R4-004	Pipe To Ell Circ Seam	B9.11.4 BJ		X			100	PT	NA	X	X	X	LDC-5
R4-004	Pipe To Ell Circ Seam	B9.11.4 BJ		X			100	UT	40813	X	X	X	LDC-5
R4-005	Ell To Pipe Circ Seam	B9.11.5 BJ		X			100	PT	NA	X	X	X	LDC-6
R4-005	Ell To Pipe Circ Seam	B9.11.5 BJ		X			100	UT	40813	X	X	X	LDC-6
R4-006	Pipe To Ell Circ Seam	B9.11.6 BJ	X				100	PT	NA	X	X	X	LDC-7
R4-006	Pipe To Ell Circ Seam	B9.11.6 BJ	X				100	UT	40813	X	X	X	LDC-7
R4-007	Ell To Pipe Circ Seam	B9.11.7 BJ					100	PT	NA	X	X	X	LDC-8
R4-007	Ell To Pipe Circ Seam	B9.11.7 BJ					100	UT	40813	X	X	X	LDC-8
R4-008	Pipe To Ell Circ Seam	B9.11.8 BJ	X				100	PT	NA	X	X	X	LDC-9
R4-008	Pipe To Ell Circ Seam	B9.11.8 BJ	X				100	UT	40813	X	X	X	LDC-9
R4-009	Ell To Pipe Circ Seam	B9.11.9 BJ	X				100	PT	NA	X	X	X	LDC-10
R4-009	Ell To Pipe Circ Seam	B9.11.9 BJ	X				100	UT	40813	X	X	X	LDC-10
R4-010	Pipe To Pipe Circ Seam	B9.11.10 BJ	X				100	PT	NA	X	X	X	LDC-11
R4-010	Pipe To Pipe Circ Seam	B9.11.10 BJ	X				100	UT	40813	X	X	X	LDC-11
R4-011	Pipe To Ell Circ Seam	B9.11.11 BJ	X				100	PT	NA	X	X	X	LDC-12
R4-011	Pipe To Ell Circ Seam	B9.11.11 BJ	X				100	UT	40813	X	X	X	LDC-12
R4-012	Ell To Pipe Circ Seam	B9.11.12 BJ					100	PT	NA				LDC-13
R4-012	Ell To Pipe Circ Seam	B9.11.12 BJ					100	UT	40813				LDC-13
R4-013	Pipe To Ell Circ Seam	B9.11.13 BJ	X				100	PT	NA	X	X	X	LDC-14
R4-013	Pipe To Ell Circ Seam	B9.11.13 BJ	X				100	UT	40813	X	X	X	LDC-14
R4-014	Ell To Pipe Circ Seam	B9.11.14 BJ					100	PT	NA				LDC-15
R4-014	Ell To Pipe Circ Seam	B9.11.14 BJ					100	UT	40813				LDC-15
R4-015	Pipe To Ell Circ Seam	B9.11.15 BJ					100	PT	NA				LDC-16
R4-015	Pipe To Ell Circ Seam	B9.11.15 BJ					100	UT	40813				LDC-16
R4-016	Ell To Tee Circ Seam	B9.11.16 BJ					100	PT	NA				LDC-17
R4-016	Ell To Tee Circ Seam	B9.11.16 BJ					100	UT	40813				LDC-17
R4-017	Tee To Pipe Circ Seam	B9.11.17 BJ					100	PT	NA				LDC-18

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PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

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PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 1

LETDOWN COOLER & DRAIN

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B4-017	Tee To Pipe Circ Seam	B9.11.17 BJ					100	UT	40813				LDC-18
B4-018	Pipe To Ell Circ Seam	B9.11.18 BJ					100	PT	NA				LDC-19
B4-018	Pipe To Ell Circ Seam	B9.11.18 BJ					100	UT	40813				LDC-19
B4-019	Ell To Pipe Circ Seam	B9.11.19 BJ					100	PT	NA				LDC-20
B4-019	Ell To Pipe Circ Seam	B9.11.19 BJ					100	UT	40813				LDC-20
B4-020	Tee To Pipe Circ Seam	B9.11.20 BJ					100	PT	NA				LDC-21
B4-020	Tee To Pipe Circ Seam	B9.11.20 BJ					100	UT	40813				LDC-21
B4-021	Pipe To Ell Circ Seam	B9.11.21 BJ					100	PT	NA				LDC-22
B4-021	Pipe To Ell Circ Seam	B9.11.21 BJ					100	UT	40813				LDC-22
B4-022	Ell To Pipe Circ Seam	B9.11.22 BJ					100	PT	NA				LDC-23
B4-022	Ell To Pipe Circ Seam	B9.11.22 BJ					100	UT	40813				LDC-23
B4-023	Pipe To Pipe Circ Seam	B9.11.23 BJ					100	PT	NA				LDC-24
B4-023	Pipe To Pipe Circ Seam	B9.11.23 BJ					100	UT	40813				LDC-24
B4-024	Pipe To Valve Circ Seam	B9.11.24 BJ					100	PT	NA				LDC-25
B4-024	Pipe To Valve Circ Seam	B9.11.24 BJ					100	UT	40813				LDC-25
B4-025	Valve To Pipe Circ Seam	B9.11.25 BJ					100	PT	NA				LDC-26
B4-025	Valve To Pipe Circ Seam	B9.11.25 BJ					100	UT	40813				LDC-26
B4-026	Pipe To Ell Circ Seam	B9.11.26 BJ					100	PT	NA				LDC-27
B4-026	Pipe To Ell Circ Seam	B9.11.26 BJ					100	UT	40813				LDC-27
B4-027	Ell To Pipe Circ Seam	B9.11.27 BJ					100	PT	NA				LDC-28
B4-027	Ell To Pipe Circ Seam	B9.11.27 BJ					100	UT	40813				LDC-28
B4-028	Pipe To Pipe Circ Seam	B9.11.28 BJ					100	PT	NA				LDC-29
B4-028	Pipe To Pipe Circ Seam	B9.11.28 BJ					100	UT	40813				LDC-29
B4-029	Pipe To Ell Circ Seam	B9.11.29 BJ					100	PT	NA				LDC-30
B4-029	Pipe To Ell Circ Seam	B9.11.29 BJ					100	UT	40813				LDC-30
B4-030	Ell To Pipe Circ Seam	B9.11.30 BJ					100	PT	NA				LDC-31
B4-030	Ell To Pipe Circ Seam	B9.11.30 BJ					100	UT	40813				LDC-31
B4-031	Pipe To Red Circ Seam	B9.11.31 BJ					100	PT	NA				LDC-32
B4-031	Pipe To Red Circ Seam	B9.11.31 BJ					100	UT	40813				LDC-32
B4-032A	Red To E29A Circ Seam	B9.11.32 BJ					100	PT	NA				LDC-32A
B4-032A	Red To E29A Circ Seam	B9.11.32 BJ					100	UT	40813				LDC-32A
B4-033A	E29B To Red Circ Seam	B9.11.33 BJ					100	PT	NA				LDC-50A
B4-033A	E29B To Red Circ Seam	B9.11.33 BJ					100	UT	40813				LDC-50A

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-24

COMPONENT DESCRIPTION

LETDOWN COOLER & DRAIN

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B4-034	Red To Pipe Circ Seam	B9.11.34 BJ					100	PT	NA				LDC-50
B4-034	Red To Pipe Circ Seam	B9.11.34 BJ					100	UT	40813				LDC-50
B4-035	Pipe To Ell Circ Seam	B9.11.35 BJ					100	PT	NA				LDC-49
B4-035	Pipe To Ell Circ Seam	B9.11.35 BJ					100	UT	40813				LDC-49
B4-036	Ell To Pipe Circ Seam	B9.11.36 BJ					100	PT	NA				LDC-48
B4-036	Ell To Pipe Circ Seam	B9.11.36 BJ					100	UT	40813				LDC-48
B4-037	Pipe To Pipe Circ Seam	B9.11.37 BJ					100	PT	NA				LDC-47
B4-037	Pipe To Pipe Circ Seam	B9.11.37 BJ					100	UT	40813				LDC-47
B4-038	Pipe To Valve Circ Seam	B9.11.38 BJ					100	PT	NA				LDC-46
B4-038	Pipe To Valve Circ Seam	B9.11.38 BJ					100	UT	40813				LDC-46
B4-039	Valve To Pipe Circ Seam	B9.11.39 BJ					100	PT	NA				LDC-45
B4-039	Valve To Pipe Circ Seam	B9.11.39 BJ					100	UT	40813				LDC-45
B4-040	Pipe To Ell Circ Seam	B9.11.40 BJ					100	PT	NA				LDC-44
B4-040	Pipe To Ell Circ Seam	B9.11.40 BJ					100	UT	40813				LDC-44
B4-041	Ell To Pipe Circ Seam	B9.11.41 BJ					100	PT	NA				LDC-43
B4-041	Ell To Pipe Circ Seam	B9.11.41 BJ					100	UT	40813				LDC-43
B4-042	Pipe To Pipe Circ Seam	B9.11.42 BJ					100	PT	NA				LDC-42
B4-042	Pipe To Pipe Circ Seam	B9.11.42 BJ					100	UT	40813				LDC-42
B4-043	Pipe To Ell Circ Seam	B9.11.43 BJ					100	PT	NA				LDC-41
B4-043	Pipe To Ell Circ Seam	B9.11.43 BJ					100	UT	40813				LDC-41
B4-044	Ell To Pipe Circ Seam	B9.40.1 BJ					100	PT	NA				LDC-40
B4-044	Ell To Pipe Circ Seam	B9.40.2 BJ					100	PT	NA				LDC-40
B4-045	Red To Pipe Socket Weld	B9.40.3 BJ			X		100	PT	NA	X	X	X	DL-B1-2
B4-046	Pipe To Valve Socket Weld	B9.40.4 BJ			X		100	PT	NA	X	X	X	DL-B1-3
B4-047	Valve to Pipe Socket Weld	B9.40.5 BJ			X		100	PT	NA	X	X	X	DL-B1-4
B4-048	Pipe To Tee Socket Weld	B9.40.6 BJ				X	100	PT	NA	X	X	X	DL-B1-5
B4-049	Tee To Pipe Socket Weld	B9.40.7 BJ				X	100	PT	NA	X	X	X	DL-B1-7
B4-050	Pipe To Valve Socket Weld	B9.40.8 BJ				X	100	PT	NA	X	X	X	DL-B1-8
B4-051	Valve To Pipe Circ Seam	B9.11.44 BJ					100	PT	NA				LDC-39
B4-051	Valve To Pipe Circ Seam	B9.11.44 BJ					100	UT	40813				LDC-39
B4-052	Pipe To Ell Circ Seam	B9.11.45 BJ					100	PT	NA				LDC-38
B4-052	Pipe To Ell Circ Seam	B9.11.45 BJ					100	UT	40813				LDC-38
B4-053	Ell To Pipe Circ Seam	B9.11.46 BJ					100	PT	NA				LDC-37

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ANO-UNIT-ONE | ZONE-24 | PAGE-4 of 5

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS-1

LETDOWN COOLER & DRAIN

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B4-053	Ell To Pipe Circ Seam	B9.11.46	BJ					100	UT	40813				LDC-37
B4-054	Pipe To Pipe Circ Seam	B9.11.47	BJ					100	PT	NA				LDC-36
B4-054	Pipe To Pipe Circ Seam	B9.11.47	BJ					100	UT	40813				LDC-36
B4-055	Pipe To Ell Circ Seam	B9.11.48	BJ					100	PT	NA				LDC-35
B4-055	Pipe To Ell Circ Seam	B9.11.48	BJ					100	UT	40813				LDC-35
B4-056	Ell To Pipe Circ Seam	B9.11.49	BJ					100	PT	NA				LDC-34
B4-056	Ell To Pipe Circ Seam	B9.11.49	BJ					100	UT	40813				LDC-34
B4-057	Pipe To Red Circ Seam	B9.11.50	BJ					100	PT	NA				LDC-33
B4-057	Pipe To Red Circ Seam	B9.11.50	BJ					100	UT	40813				LDC-33
B4-058	Red To Pipe Circ Seam	B9.11.51	BJ					100	PT	NA				LDC-51
B4-058	Red To Pipe Circ Seam	B9.11.51	BJ					100	UT	40813				LDC-51
B4-059	Pipe To Ell Circ Seam	B9.11.52	BJ					100	PT	NA				LDC-52
B4-059	Pipe To Ell Circ Seam	B9.11.52	BJ					100	UT	40813				LDC-52
B4-060	Ell To Pipe Circ Seam	B9.11.53	BJ					100	PT	NA				LDC-53
B4-060	Ell To Pipe Circ Seam	B9.11.53	BJ					100	UT	40813				LDC-53
B4-061	Pipe To Pipe Circ Seam	B9.11.54	BJ					100	PT	NA				LDC-55
B4-061	Pipe To Pipe Circ Seam	B9.11.54	BJ					100	UT	40813				LDC-55
B4-062	Pipe To Ell Circ Seam	B9.11.55	BJ					100	PT	NA				LDC-56
B4-062	Pipe To Ell Circ Seam	B9.11.55	BJ					100	UT	40813				LDC-56
B4-063	Ell To Pipe Circ Seam	B9.11.56	BJ					100	PT	NA				LDC-57
B4-063	Ell To Pipe Circ Seam	B9.11.56	BJ					100	UT	40813				LDC-57
B4-064	Pipe To Valve Circ Seam	B9.11.57	BJ					100	PT	NA				LDC-58
B4-064	Pipe To Valve Circ Seam	B9.11.57	BJ					100	UT	40813				LDC-58
B4-065	Red To Pipe Circ Seam	B9.11.58	BJ					100	PT	NA				LDC-51A
B4-065	Red To Pipe Circ Seam	B9.11.58	BJ					100	UT	40813				LDC-51A
B4-066	Pipe To SE Circ Seam	B5.50.1	BF	X				100	PT	NA	X	X	X	LDC-1SE
B4-066	Pipe To SE Circ Seam	B5.50.1	BF	X				100	UT	40813	X	X	X	LDC-1SE
B4-067	1 ½" Valve RBD-8A	B12.40.1	BM2				X	100	VT-3	NA	X	X	X	
B4-068	1 ½" Valve RBD-9A	B12.40.2	BM2	NOT	REQ.			100	VT-3	NA				
B4-069	2 ½" Valve CV-1213	B12.40.3	BM2				X	100	VT-3	NA	X	X	X	
B4-070	2 ½" Valve CV-1215	B12.40.4	BM2	NOT	REQ.			100	VT-3	NA	NA	NA	NA	
B4-071	2 ½" Valve CV-1214	B12.40.5	BM2	NOT	REQ.			100	VT-3	NA	NA	NA	NA	
B4-072	2 ½" Valve CV-1216	B12.40.6	BM2	NOT	REQ.			100	VT-3	NA	NA	NA	NA	

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE- 24

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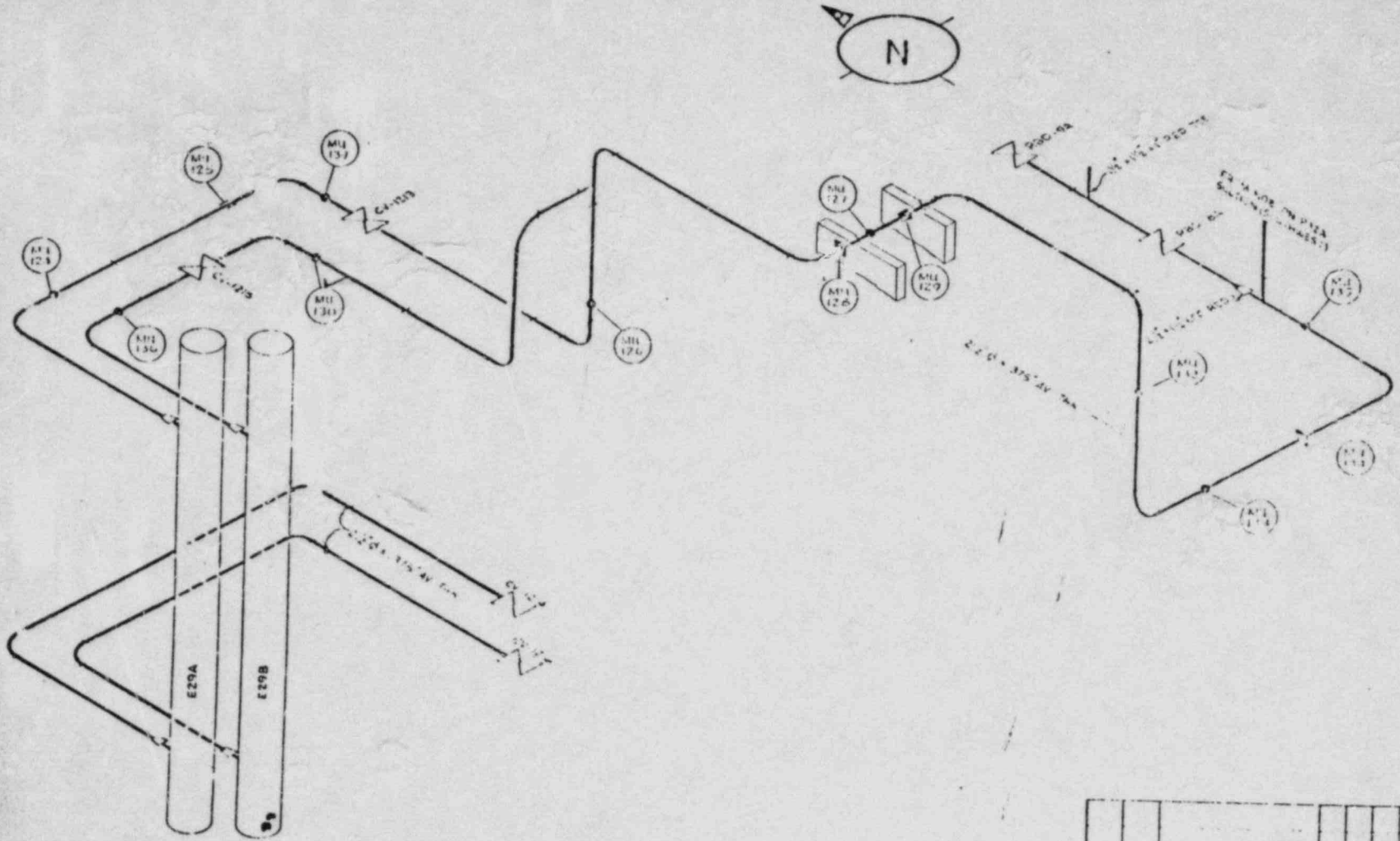
PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 1

LETDOWN COOLER & DRAIN

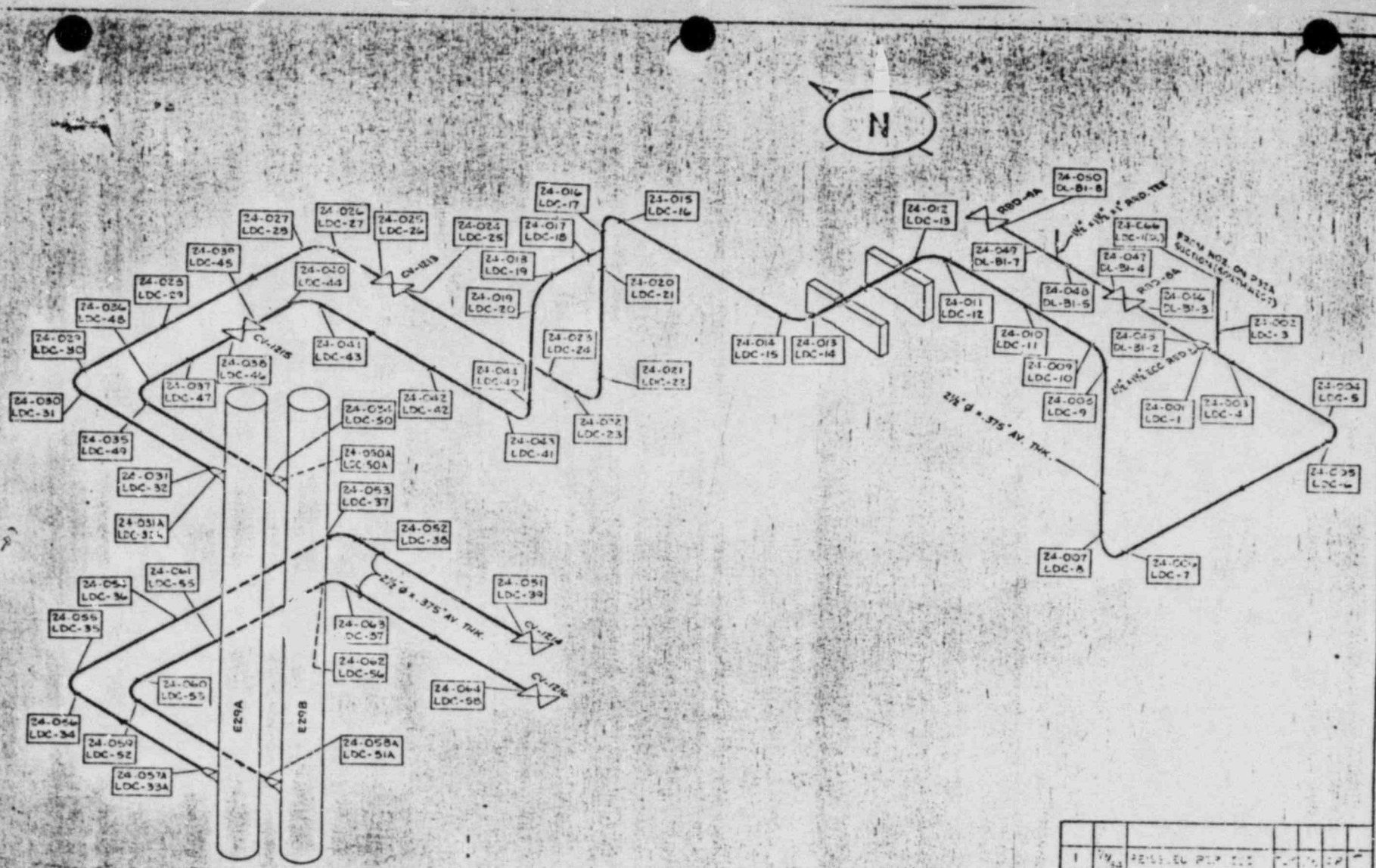
EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B4-073	Valve RBD-8A Bolts-Studs-Nuts	B7.70.1	BG2			X		100	VT-1	NA	X	X	X	
B4-074	Valve RBD-9A Bolts-Studs-Nuts	B7.70.2	BG2			X		100	VT-1	NA	X	X	X	
B4-075	Valve CV-1213 Bolts-Studs-Nuts	B7.70.3	BG2	NOT REQ.				100	VT-1	NA	NA	NA	NA	
B4-076	Valve CV-1215 Bolts-Studs-Nuts	B7.70.4	BG2	NOT REQ.				100	VT-1	NA	NA	NA	NA	
B4-077	Valve CV-1214 Bolts-Studs-Nuts	B7.70.5	BG2	NOT REQ.				100	VT-1	NA	NA	NA	NA	
B4-078	Valve CV-1216 Bolts-Studs-Nuts	B7.70.6	BG2	NOT REQ.				100	VT-1	NA	NA	NA	NA	
B4-079	Guide MU-125	B10.10.1	BK1		X			100	UT PT		X	X	X	SK#1-306
B4-080	Spring Hanger MU-135	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#1-320
B4-081	Restraint MU-134	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#1-318
B4-082	Spring Hanger MU-133	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#1-316
B4-083	Spring Hanger MU-132	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-315
B4-084	Spring Hanger MU-130	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-325
B4-085	Rigid Hanger MU-129	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#1-311
B4-086	Restraint MU-128	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#1-310
B4-087	Spring Hanger MU-127	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#1-309
B4-088	Spring Hanger MU-126	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-307
B4-089	Spring Hanger MU-139	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#1-326
B4-090	Guide MU-125	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#1-306
B4-091	Spring Hanger MU-136	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#1-322
B4-092	Spring Hanger MU-124	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#1-305
B4-093	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B4-094	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B4-095	Pressure Retaining Boundry	B15.70	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B4-096	Pressure Retaining Boundry	B15.71	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

LETDOWN COOLER & DRAIN
ZONE 1

ISI-124H 0



NO.	DATE	REVISION	BY
1	7/83	REVISED PER ISI	CP
0	6/83	ISSUED FOR I.S.I.	CP

SCALE: —— DESIGN B.B.W. DRAWN R. WEST

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

LETDOWN COOLER & DRAIN
ZONE 24

DRAWING NO.	REV.
ISI-124	1

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ANO-UNIT-ONE | ZONE-25 | PAGE-1 of 2

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS-1

RC DRAINS

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B5-001	P32C Suction To Coupling SE	B5.42.1	BF	X				100	PT	NA	X	X	X	DL-A1-1 S/E
B5-002	Coupling To Pipe Socket Weld	B9.40.1	BJ		X			100	PT	NA	X	X	X	DL-2
B5-003	Pipe To Ell Socket Weld	B9.40.2	BJ		X			100	PT	NA	X	X	X	DL-3
B5-004	Ell To Pipe Socket Weld	B9.40.3	BJ					100	PT	NA				DL-4
B5-005	Pipe To Valve Socket Weld	B9.40.4	BJ					100	PT	NA				DL-5
B5-006	Valve To Pipe Socket Weld	B9.40.5	BJ					100	PT	NA				DL-6
B5-007	Pipe To Tee Socket Weld	B9.40.6	BJ					100	PT	NA				DL-7
B5-008	Tee To Red Socket Weld	B9.40.7	BJ					100	PT	NA				DL-8
B5-009	Tee To Pipe Socket Weld	B9.40.8	BJ					100	PT	NA				DL-9
B5-010	Pipe To Valve Socket Weld	B9.40.9	BJ					100	PT	NA				DL-10
B5-011	P32D Suction To Coupling SE	B5.42.2	BF	X				100	PT	NA	X	X	X	DL-A2-1 S/E
B5-012	Coupling To Pipe Socket Weld	B9.40.10	BJ		X			100	PT	NA	X	X	X	DL-2
B5-013	Pipe To Ell Socket Weld	B9.40.12	BJ			X		100	PT	NA	X	X	X	DL-3
B5-014	Ell To Pipe Socket Weld	B9.40.13	BJ					100	PT	NA				DL-4
B5-015	Pipe To Valve Socket Weld	B9.40.14	BJ					100	PT	NA				DL-5
B5-016	Valve To Pipe Socket Weld	B9.40.15	BJ					100	PT	NA				DL-6
B5-017	Pipe To Tee Socket Weld	B9.40.16	BJ					100	PT	NA				DL-7
B5-018	Tee To Red Socket Weld	B9.40.17	BJ					100	PT	NA				DL-8
B5-019	Tee To Pipe Socket Weld	B9.40.18	BJ					100	PT	NA				DL-9
B5-020	Pipe To Valve Socket Weld	B9.40.19	BJ					100	PT	NA				DL-A2-10
B5-021	P32B Suction To Coupling SE	B5.42.3	BF	X				100	PT	NA	X	X	X	DL-B2-1 S/E
B5-022	Coupling To Pipe Socket Weld	B9.40.20	BJ					100	PT	NA				DL-2
B5-023	Pipe To Ell Socket Weld	B9.40.21	BJ					100	PT	NA				DL-2A
B5-024	Ell To Pipe Socket Weld	B9.40.22	BJ				X	100	PT	NA	X	X	X	DL-2B
B5-025	Pipe To Ell Socket Weld	B9.40.23	BJ				X	100	PT	NA	X	X	X	DL-2C
B5-026	Ell To Pipe Socket Weld	B9.40.24	BJ			X		100	PT	NA	X	X	X	DL-2D
B5-027	Pipe To Ell Socket Weld	B9.40.25	BJ		X			100	PT	NA	X	X	X	DL-2E
B5-028	Ell To Pipe Socket Weld	B9.40.26	BJ					100	PT	NA				DL-2F
B5-029	Pipe To Ell Socket Weld	B9.40.27	BJ					100	PT	NA				DL-2G
B5-030	Ell To Pipe Socket Weld	B9.40.28	BJ					100	PT	NA				DL-2H
B5-031	Pipe To Valve Socket Weld	B9.40.29	BJ					100	PT	NA				DL-5
B5-032	Valve To Pipe Socket Weld	B9.40.30	BJ					100	PT	NA				DL-6
B5-033	Pipe To Tee Socket Weld	B9.40.31	BJ					100	PT	NA				DL-7

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PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT ONE

ZONE- 25

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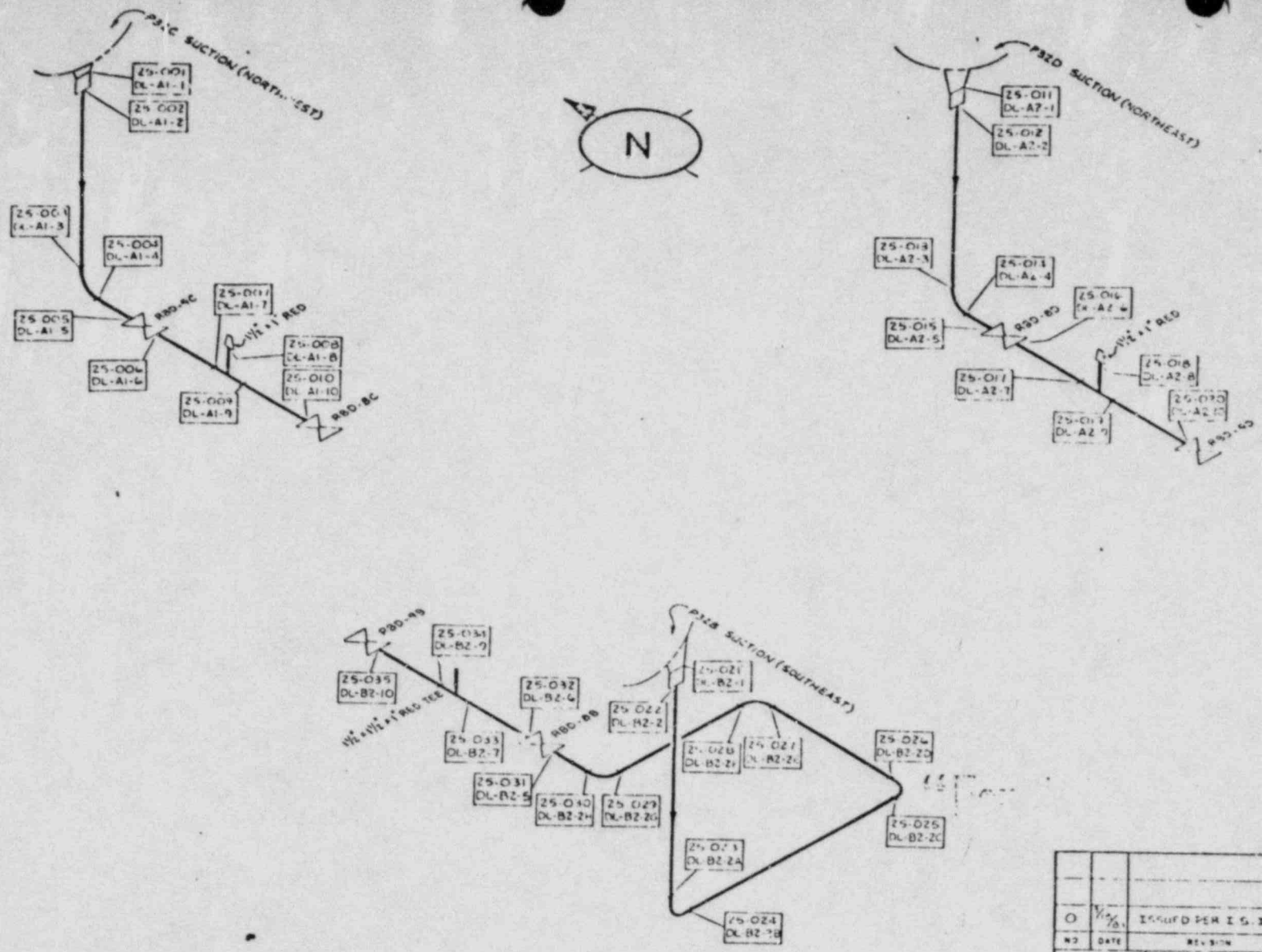
PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 1

RC DRAINS

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B5-034	Tee To Pipe Socket Weld	B9.40.32	BJ					100	PT	NA				DL-9
B5-035	Pipe To Valve Socket Weld	B9.40.33	BJ					100	PT	NA				DL-B2-10
B5-036	1 ½" Valve RBD-8C	B12.40.1	BM2			X		100	VT-3	NA	X	X	X	
B5-037	1 ½" Valve RBD-9C	B12.40.2	BM2	NOT REQ'D.				100	VT-3	NA				
B5-038	1 ½" Valve RBD-8D	B12.40.3	BM2	NOT REQ'D.				100	VT-3	NA				
B5-039	1 ½" Valve RBD-9D	B12.40.4	BM2	NOT REQ'D.				100	VT-3	NA				
B5-040	1 ½" Valve RBD-8B	B12.40.5	BM2	NOT REQ'D.				100	VT-3	NA				
B5-041	1 ½" Valve RBD-9B	B12.40.6	BM2	NOT REQ'D.				100	VT-3	NA				
B5-042	1 ½" Valve RBD-10B	B12.40.7	BM2	NOT REQ'D.				100	VT-3	NA				
B5-043	Valve RBD-8C Bolts-Studs-Nuts	B7.70.1	BG2			X		100	VT-1	NA	X	X	X	
B5-044	Valve RBD-9C Bolts-Studs-Nuts	B7.70.2	BG2	NOT REQ'D.				100	VT-1	NA				
B5-045	Valve RBD-8D Bolts-Studs-Nuts	B7.70.3	BG2	NOT REQ'D.				100	VT-1	NA				
B5-046	Valve RBD-9D Bolts-Studs-Nuts	B7.70.4	BG2	NOT REQ'D.				100	VT-1	NA				
B5-047	Valve RBD-8B Bolts-Studs-Nuts	B7.70.5	BG2	NOT REQ'D.				100	VT-1	NA				
B5-048	Valve RBD-9B Bolts-Studs-Nuts	B7.70.6	BG2	NOT REQ'D.				100	VT-1	NA				
B5-049	Valve RBD-10B Bolts-Studs-Nuts	B7.70.7	BG2	NOT REQ'D.				100	VT-1	NA				
B5-050	Hydraulic Snubber HS-1	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#13-271
B5-051	Hydraulic Snubber HS-2	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#1
B5-052	Guide PG-31	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#M-1021
B5-053	Guide PG-31	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#M-1021
B5-054	Guide PG-31	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#M-1021
B5-055	Guide PG-31	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#M-1021
B5-056	Pressure Retaining Boundry	B15.50	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B5-057	Pressure Retaining Boundry	B15.51	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B5-058	Pressure Retaining Boundry	B15.70	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B5-059	Pressure Retaining Boundry	B15.71	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest



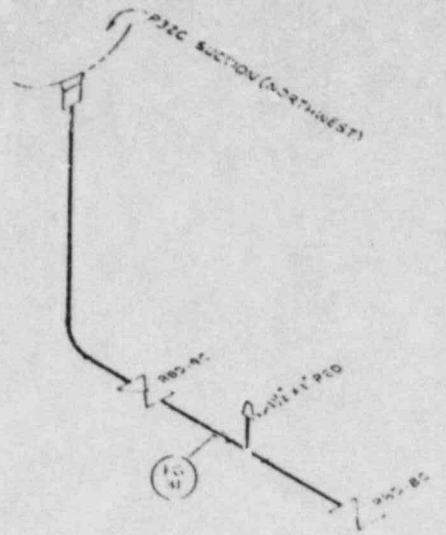
NO	DATE	REVISION	BY	CHK'D
0	1/30/81	ISSUED PER I.S.I.	RJ	JJ

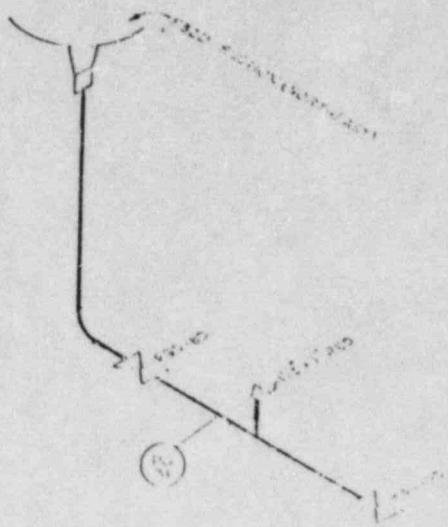
SCALE - DESIGN B.B.W. DRAWN R. JONES

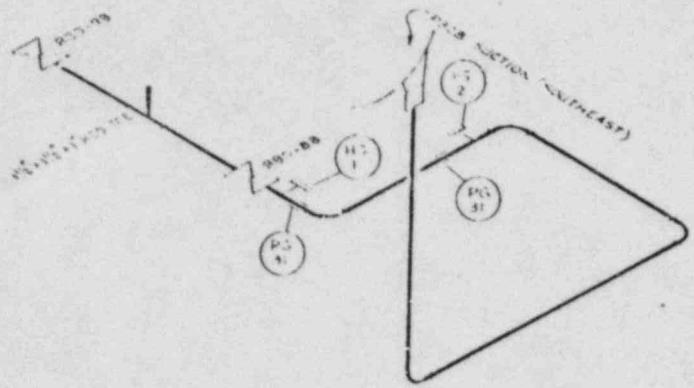
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

RC DRAINS
ZONE 25

DRAWING NO. ISI-125 REV. 0







ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

RC DRAINS
ZONE 25

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ANO-UNIT-ONE | ZONE- 26 | PAGE- 1 of 4

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS- 2

MAIN FEEDWATER A LOOP

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
26-001	Valve To Pipe Circ Seam	C5.21.1 CF		X			100	MT	NA	X	X	X	FWA-1
26-001	Valve To Pipe Circ Seam	C5.21.1 CF		X			100	UT	40834	X	X	X	FWA-1
26-002	Pipe To Ell Circ Seam	C5.21.2 CF					100	MT	NA				FWA-2
26-002	Pipe To Ell Circ Seam	C5.21.2 CF					100	UT	40834				FWA-2
26-003	Ell To Pipe Circ Seam	C5.21.3 CF					100	MT	NA				FWA-3
26-003	Ell To Pipe Circ Seam	C5.21.3 CF					100	UT	40834				FWA-3
26-004	Pipe To Valve Circ Seam	C5.21.4 CF					100	MT	NA				FWA-4
26-004	Pipe To Valve Circ Seam	C5.21.4 CF					100	UT	40834				FWA-4
26-005	Valve To Pipe Circ Seam	C5.21.5 CF					100	MT	NA				FWA-5
26-005	Valve To Pipe Circ Seam	C5.21.5 CF					100	UT	40834				FWA-5
26-006	Pipe To Pene. Circ Seam	C5.21.6 CF					100	MT	NA				FWA-6
26-006	Pipe To Pene. Circ Seam	C5.21.6 CF					100	UT	40834				FWA-6
26-007	Pene. To Ell Circ Seam	C5.21.7 CF					100	MT	NA				FWA-7
26-007	Pene. To Ell Circ Seam	C5.21.7 CF					100	UT	40834				FWA-7
26-008	Ell To Pipe Circ Seam	C5.21.8 CF					100	MT	NA				FWA-8
26-008	Ell To Pipe Circ Seam	C5.21.8 CF					100	UT	40834				FWA-8
26-009	Pipe To Ell Circ Seam	C5.21.9 CF					100	MT	NA				FWA-9
26-009	Pipe To Ell Circ Seam	C5.21.9 CF					100	UT	40834				FWA-9
26-010	Ell To Pipe Circ Seam	C5.21.10 CF					100	MT	NA				FWA-10
26-010	Ell To Pipe Circ Seam	C5.21.10 CF					100	UT	40834				FWA-10
26-011	Pipe To Ell Circ Seam	C5.21.11 CF					100	MT	NA				FWA-11
26-011	Pipe To Ell Circ Seam	C5.21.11 CF					100	UT	40834				FWA-11
26-012	Ell To Pipe Circ Seam	C5.21.12 CF					100	MT	NA				FWA-12
26-012	Ell To Pipe Circ Seam	C5.21.12 CF					100	UT	40834				FWA-12
26-013	Pipe To Ell Circ Seam	C5.21.13 CF					100	MT	NA				FWA-13
26-013	Pipe To Ell Circ Seam	C5.21.13 CF					100	UT	40834				FWA-13
26-014	Ell To Ell Circ Seam	C5.21.14 CF					100	MT	NA				FWA-14
26-014	Ell To Ell Circ Seam	C5.21.14 CF					100	UT	40834				FWA-14
26-015	Ell To Pipe Circ Seam	C5.21.15 CF					100	MT	NA				FWA-15
26-015	Ell To Pipe Circ Seam	C5.21.15 CF					100	UT	40834				FWA-15
26-016	Pipe To Ell Circ Seam	C5.21.16 CF					100	MT	NA				FWA-16
26-016	Pipe To Ell Circ Seam	C5.21.16 CF					100	UT	40834				FWA-16
26-017	Ell To Pipe Circ Seam	C5.21.17 CF					100	MT	NA				FWA-17

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-26

COMPONENT DESCRIPTION

MAIN FEEDWATER A LOOP

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R6-017	Ell To Pipe Circ Seam	C5.21.17 CF					100	UT	40834				FWA-17
R6-018	Pipe To Ell Circ Seam	C5.21.18 CF					100	MT	NA				FWA-18
R6-018	Pipe To Ell Circ Seam	C5.21.18 CF					100	UT	40834				FWA-18
R6-019	Ell To Pipe Circ Seam	C5.21.19 CF					100	MT	NA				FWA-19
R6-019	Ell To Pipe Circ Seam	C5.21.19 CF					100	UT	40834				FWA-19
R6-020	Pipe To Ell Circ Seam	C5.21.20 CF					100	MT	NA				FWA-20
R6-020	Pipe To Ell Circ Seam	C5.21.20 CF					100	UT	40834				FWA-20
R6-021	Ell To Pipe Circ Seam	C5.21.21 CF					100	MT	NA				FWA-21
R6-021	Ell To Pipe Circ Seam	C5.21.21 CF					100	UT	40834				FWA-21
R6-022	Pipe To Tee Circ Seam	C5.21.22 CF	X				100	MT	NA	X	X	X	FWA-22
R6-022	Pipe To Tee Circ Seam	C5.21.22 CF	X				100	UT	40834	X	X	X	FWA-22
R6-023	Tee To Red Circ Seam	C5.21.23 CF					100	MT	NA				FWA-23
R6-023	Tee To Red Circ Seam	C5.21.23 CF					100	UT	40834				FWA-23
R6-024	Red To Pipe Circ Seam	C5.21.24 CF					100	MT	NA				FWA-24
R6-024	Red To Pipe Circ Seam	C5.21.24 CF					100	UT	40834				FWA-24
R6-025	Pipe To Ell Circ Seam	C5.21.25 CF					100	MT	NA				FWA-25
R6-025	Pipe To Ell Circ Seam	C5.21.25 CF					100	UT	40834				FWA-25
R6-026	Ell To Pipe Circ Seam	C5.21.26 CF					100	MT	NA				FWA-26
R6-026	Ell To Pipe Circ Seam	C5.21.26 CF					100	UT	40834				FWA-26
R6-027	Pipe To Ell Circ Seam	C5.21.27 CF					100	MT	NA				FWA-27
R6-027	Pipe To Ell Circ Seam	C5.21.27 CF					100	PT	40834				FWA-27
R6-028	Ell To Pipe Circ Seam	C5.21.28 CF					100	MT	NA				FWA-28
R6-028	Ell To Pipe Circ Seam	C5.21.28 CF					100	PT	40834				FWA-28
R6-029	Pipe To Tee Circ Seam	C5.21.29 CF					100	MT	NA				FWA-29
R6-029	Pipe To Tee Circ Seam	C5.21.29 CF					100	UT	40834				FWA-29
R6-030	Tee To Pipe Circ Seam	C5.21.30 CF					100	MT	NA				FWA-30
R6-030	Tee To Pipe Circ Seam	C5.21.30 CF					100	UT	40834				FWA-30
R6-031	Pipe To End Cap Circ Seam	C5.21.31 CF					100	MT	NA				FWA-31
R6-031	Pipe To End Cap Circ Seam	C5.21.31 CF					100	UT	40834				FWA-31
R6-032	Tee To Pipe Circ Seam	C5.21.32 CF					100	MT	NA				FWA-32
R6-032	Tee To Pipe Circ Seam	C5.21.32 CF					100	UT	40834				FWA-32
R6-033	Pipe To End Cap Circ Seam	C5.21.33 CF					100	MT	NA				FWA-33
R6-033	Pipe To End Cap Circ Seam	C5.21.33 CF					100	UT	40834				FWA-33

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-26

COMPONENT DESCRIPTION

MAIN FEEDWATER A LOOP

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R6-034	Tee To Red Circ Seam	C5.21.34	CF					100	MT	NA				FWA-34
R6-034	Tee To Red Circ Seam	C5.21.34	CF					100	UT	40834				FWA-34
R6-035	Red To Pipe Circ Seam	C5.21.35	CF					100	MT	NA				FWA-35
R6-035	Red To Pipe Circ Seam	C5.21.35	CF					100	UT	40834				FWA-35
R6-036	Pipe To Ell Circ Seam	C5.21.36	CF	X				100	MT	NA	X	X	X	FWA-36
R6-036	Pipe To Ell Circ Seam	C5.21.36	CF	X				100	UT	40834	X	X	X	FWA-36
R6-037	Ell To Pipe Circ Seam	C5.21.37	CF					100	MT	NA				FWA-37
R6-037	Ell To Pipe Circ Seam	C5.21.37	CF					100	UT	40834				FWA-37
R6-038	Pipe To Ell Circ Seam	C5.21.38	CF					100	MT	NA				FWA-38
R6-038	Pipe To Ell Circ Seam	C5.21.38	CF					100	UT	40834				FWA-38
R6-039	Ell To Pipe Circ Seam	C5.21.39	CF					100	MT	NA				FWA-39
R6-039	Ell To Pipe Circ Seam	C5.21.39	CF					100	UT	40834				FWA-39
R6-040	Pipe To Tee Circ Seam	C5.21.40	CF					100	MT	NA				FWA-40
R6-040	Pipe To Tee Circ Seam	C5.21.40	CF					100	UT	40834				FWA-40
R6-041	Tee To Pipe Circ Seam	C5.21.41	CF					100	MT	NA				FWA-41
R6-041	Tee To Pipe Circ Seam	C5.21.41	CF					100	UT	40834				FWA-41
R6-042	Pipe To End Cap Circ Seam	C5.21.42	CF					100	MT	NA				FWA-42
R6-042	Pipe To End Cap Circ Seam	C5.21.42	CF					100	UT	40834				FWA-42
R6-043	Tee To Pipe Circ Seam	C5.21.43	CF					100	MT	NA				FWA-43
R6-043	Tee To Pipe Circ Seam	C5.21.43	CF					100	UT	40834				FWA-43
R6-044	Pipe To End Cap Circ Seam	C5.21.44	CF					100	MT	NA				FWA-44
R6-044	Pipe To End Cap Circ Seam	C5.21.44	CF					100	UT	40834				FWA-44
R6-045	4" Valve CV-2680 Bolts-Studs	C4.40.1	CD					100	UT					All Bolts
R6-046	Rigid Hanger MFW-25	C3.40.1	CC		X			100	PT MT	NA	X	X	X	SK#4-107
R6-047	Spring Hanger MFW-19	C3.40.2	CC	X				100	PT MT	NA	X	X	X	SK#4-103
R6-048	Spring Hanger MFW-30	F-3	F-C				X	100	VT-4	NA	NA	NA	NA	SK#5-1206
R6-049	Rigid Hanger MFW-26	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#4-108
R6-050	Rigid Hanger MFW-25	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#4-107
R6-051	Restraint MFW-22	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#4-105
R6-052	Restraint MFW-23	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#4-106
R6-053	Rigid Hanger MFW-24	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#4-106
R6-054	Spring Hanger MFW-21	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-113
R6-055	Spring Hanger MFW-19	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-103

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ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-26

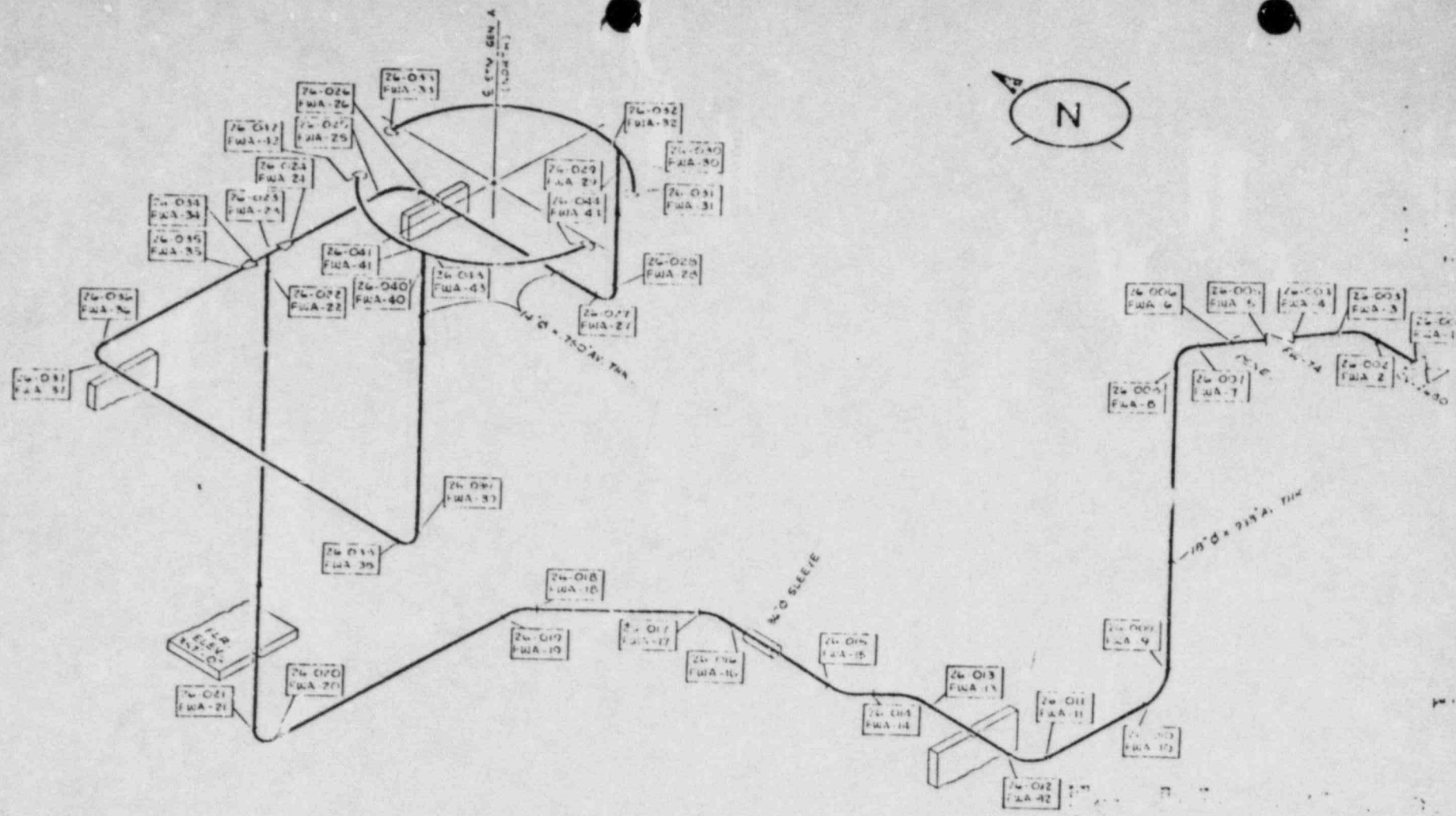
COMPONENT DESCRIPTION

MAIN FEEDWATER A LOOP

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
26-056	Spring Hanger MFW-18	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-111
26-057	Restraint MFW-20	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#
26-058	Spring Hanger MFW-17	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-112
26-059	Hydraulic Snubber HS-22	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#4-113
26-060	Hydraulic Snubber HS-23	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#4-116
26-061	Hydraulic Snubber HS-24	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-117
26-062	Hydraulic Snubber HS-25	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-118
26-063	Hydraulic Snubber HS-26	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-123
26-064	Hydraulic Snubber HS-27	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#4-124
26-082	Hydraulic Snubber HS-28	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-125
26-083	Hydraulic Snubber HS-29	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-126
26-084	Pressure Retaining Components	C7.10.1	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
26-085	Pressure Retaining Components	C7.11.1	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
26-086	Pressure Retaining Components	C7.40.1	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
26-087	Pressure Retaining Components	C7.41.1	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry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26-026 FWA-26
26-027 FWA-25
26-028 FWA-24
26-029 FWA-29
26-030 FWA-30
26-031 FWA-31
26-032 FWA-32
26-033 FWA-33
26-034 FWA-34
26-035 FWA-35
26-036 FWA-36
26-037 FWA-37
26-038 FWA-38
26-039 FWA-39
26-040 FWA-40
26-041 FWA-41
26-042 FWA-42
26-043 FWA-43
26-022 FWA-22
26-023 FWA-23
26-027 FWA-27
26-028 FWA-28
26-001 FWA-1
26-002 FWA-2
26-003 FWA-3
26-004 FWA-4
26-005 FWA-5
26-006 FWA-6
26-007 FWA-7
26-008 FWA-8
26-009 FWA-9
26-010 FWA-10
26-011 FWA-11
26-012 FWA-12
26-013 FWA-13
26-014 FWA-14
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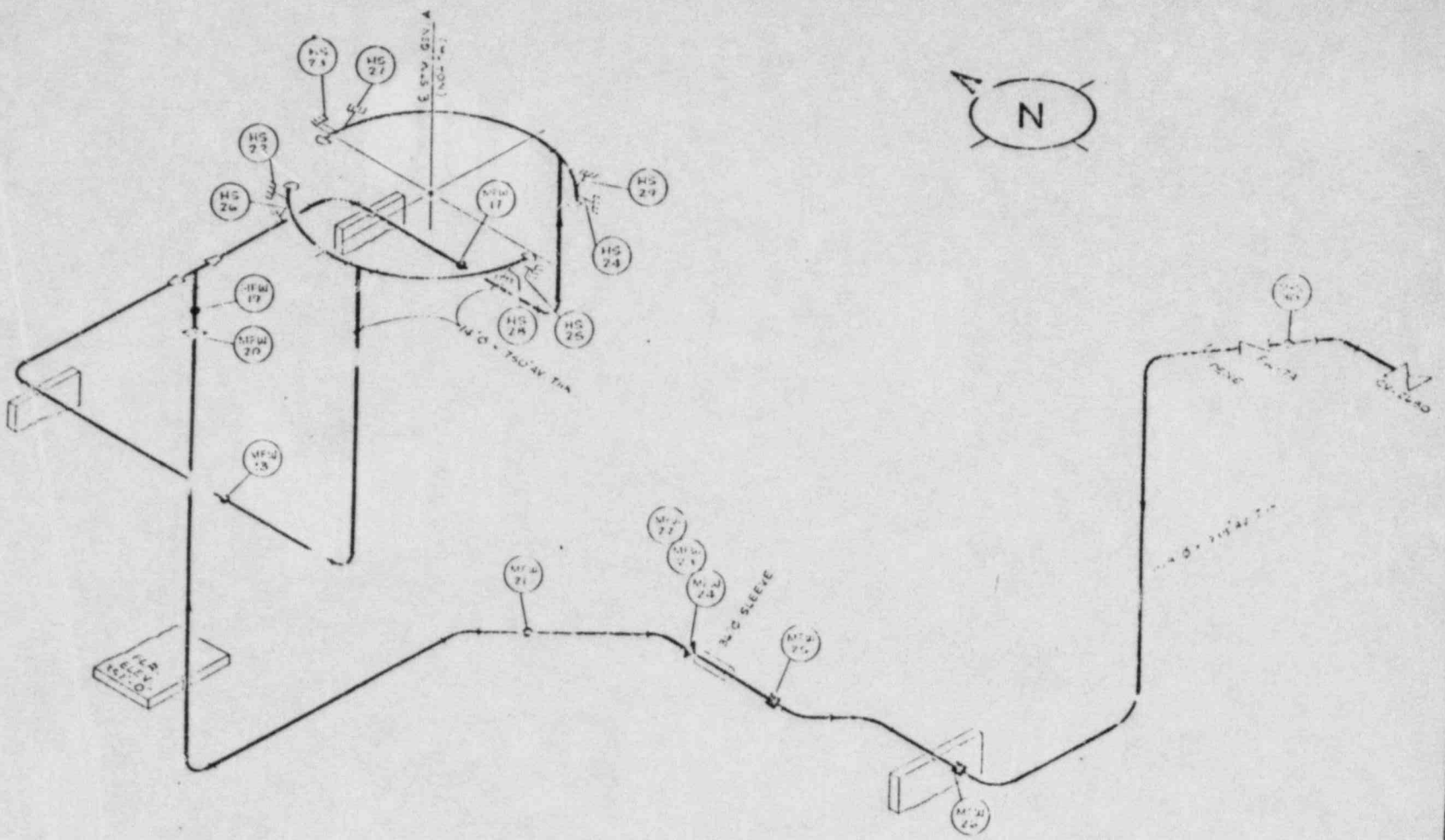
26-017 FWA-17
26-018 FWA-18
26-019 FWA-19
26-020 FWA-20



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

FEEDWATER A
ZONE 26

ISI - 126H | 0

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE- 27

PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 2

MAIN FEEDWATER B LOOP

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R7-001	Valve To Pipe Circ Seam	C5.21.1 CF	X				100	MT	NA	X	X	X	FWB-1
R7-001	Valve To Pipe Circ Seam	C5.21.1 CF	X				100	UT	40834	X	X	X	FWB-1
R7-002	Pipe To Valve Circ Seam	C5.21.2 CF					100	MT	NA				FWB-2
R7-002	Pipe To Valve Circ Seam	C5.21.2 CF					100	UT	40834				FWB-2
R7-003	Valve To Pipe Circ Seam	C5.21.3 CF					100	MT	NA				FWB-3
R7-003	Valve To Pipe Circ Seam	C5.21.3 CF					100	UT	40834				FWB-3
R7-004	Pipe To Ell Circ Seam	C5.21.4 CF					100	MT	NA				FWB-4
R7-004	Pipe To Ell Circ Seam	C5.21.4 CF					100	UT	40834				FWB-4
R7-005	Ell To Pipe Circ Seam	C5.21.5 CF					100	MT	NA				FWB-5
R7-005	Ell To Pipe Circ Seam	C5.21.5 CF					100	UT	40834				FWB-5
R7-006	Pipe To Pene. Circ Seam	C5.21.6 CF		X			100	MT	NA	X	X	X	FWB-6
R7-006	Pipe To Pene. Circ Seam	C5.21.6 CF		X			100	UT	40834	X	X	X	FWB-6
R7-007	Pene. To Ell Circ Seam	C5.21.7 CF					100	MT	NA				FWB-7
R7-007	Pene. To Ell Circ Seam	C5.21.7 CF					100	UT	40834				FWB-7
R7-008	Ell To Pipe Circ Seam	C5.21.8 CF					100	MT	NA				FWB-8
R7-008	Ell To Pipe Circ Seam	C5.21.8 CF					100	UT	40834				FWB-8
R7-009	Pipe To Ell Circ Seam	C5.21.9 CF					100	MT	NA				FWB-9
R7-009	Pipe To Ell Circ Seam	C5.21.9 CF					100	UT	40834				FWB-9
R7-010	Ell To Ell Circ Seam	C5.21.10 CF					100	MT	NA				FWB-10
R7-010	Ell To Ell Circ Seam	C5.21.10 CF					100	UT	40834				FWB-10
R7-011	Ell To Pipe Circ Seam	C5.21.11 CF					100	MT	NA				FWB-11
R7-011	Ell To Pipe Circ Seam	C5.21.11 CF					100	UT	40834				FWB-11
R7-012	Pipe To Ell Circ Seam	C5.21.12 CF					100	MT	NA				FWB-12
R7-012	Pipe To Ell Circ Seam	C5.21.12 CF					100	UT	40834				FWB-12
R7-013	Ell To Pipe Circ Seam	C5.21.13 CF					100	MT	NA				FWB-13
R7-013	Ell To Pipe Circ Seam	C5.21.13 CF					100	UT	40834				FWB-13
R7-014	Pipe To Ell Circ Seam	C5.21.14 CF					100	UT	40834				FWB-14
R7-014	Pipe To Ell Circ Seam	C5.21.14 CF					100	MT	NA				FWB-14
R7-015	Ell To Pipe Circ Seam	C5.21.15 CF					100	MT	NA				FWB-15
R7-015	Ell To Pipe Circ Seam	C5.21.15 CF					100	UT	40834				FWB-15
R7-016	Pipe To Tee Circ Seam	C5.21.16 CF					100	MT	NA				FWB-16
R7-016	Pipe To Tee Circ Seam	C5.21.16 CF					100	UT	40834				FWB-16
R7-017	Tee To Red Circ Seam	C5.21.17 CF					100	MT	NA				FWB-17

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-27

COMPONENT DESCRIPTION

MAIN FEEDWATER B LOOP

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R7-017	Tee To Red Circ Seam	C5.21.17 CF					100	UT	40834				FWB-17
R7-018	Red To Pipe Circ Seam	C5.21.[illegible] CF					100	MT	NA				FWB-18
R7-018	Red To Pipe Circ Seam	C5.21.18 CF					100	UT	40834				FWB-18
R7-019	Pipe To Ell Circ Seam	C5.21.19 CF					100	MT	NA				FWB-19
R7-019	Pipe To Ell Circ Seam	C5.21.19 CF					100	UT	40834				FWB-19
R7-020	Ell To Pipe Circ Seam	C5.21.20 CF					100	MT	NA				FWB-20
R7-020	Ell To Pipe Circ Seam	C5.21.20 CF					100	UT	40834				FWB-20
R7-021	Pipe To Ell Circ Seam	C5.21.21 CF					100	MT	NA				FWB-21
R7-021	Pipe To Ell Circ Seam	C5.21.21 CF					100	UT	40834				FWB-21
R7-022	Ell To Pipe Circ Seam	C5.21.22 CF					100	MT	NA				FWB-22
R7-022	Ell To Pipe Circ Seam	C5.21.22 CF					100	UT	40834				FWB-22
R7-023	Pipe To Tee Circ Seam	C5.21.23 CF					100	MT	NA				FWB-23
R7-023	Pipe To Tee Circ Seam	C5.21.23 CF					100	UT	40834				FWB-23
R7-024	Tee To Pipe Circ Seam	C5.21.24 CF					100	MT	NA				FWB-24
R7-024	Tee To Pipe Circ Seam	C5.21.24 CF					100	UT	40834				FWB-24
R7-025	Pipe To End Cap Circ Seam	C5.21.25 CF					100	MT	NA				FWB-25
R7-025	Pipe To End Cap Circ Seam	C5.21.25 CF					100	UT	40834				FWB-25
R7-026	Tee To Pipe Circ Seam	C5.21.26 CF					100	MT	NA				FWB-26
R7-026	Tee To Pipe Circ Seam	C5.21.26 CF					100	UT	40834				FWB-26
R7-027	Pipe To End Cap Circ Seam	C5.21.27 CF		X			100	MT	NA	X	X	X	FWB-27
R7-027	Pipe To End Cap Circ Seam	C5.21.27 CF		X			100	UT	40834	X	X	X	FWB-27
R7-028	Tee To Red Circ Seam	C5.21.28 CF					100	MT	NA				FWB-28
R7-028	Tee To Red Circ Seam	C5.21.28 CF					100	UT	40834				FWB-28
R7-029	Red To Pipe Circ Seam	C5.21.29 CF					100	MT	NA				FWB-29
R7-029	Red To Pipe Circ Seam	C5.21.29 CF					100	UT	40834				FWB-29
R7-030	Pipe To Ell Circ Seam	C5.21.30 CF					100	MT	NA				FWB-30
R7-030	Pipe To Ell Circ Seam	C5.21.30 CF					100	UT	40834				FWB-30
R7-031	Ell To Pipe Circ Seam	C5.21.31 CF					100	MT	NA				FWB-31
R7-031	Ell To Pipe Circ Seam	C5.21.31 CF					100	UT	40834				FWB-31
R7-032	Pipe To Ell Circ Seam	C5.21.32 CF					100	MT	NA				FWB-32
R7-032	Pipe To Ell Circ Seam	C5.21.32 CF					100	UT	40834				FWB-32
R7-033	Ell To Pipe Circ Seam	C5.21.33 CF					100	MT	NA				FWB-33
R7-033	Ell To Pipe Circ Seam	C5.21.33 CF					100	UT	40834				FWB-33

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-27

COMPONENT DESCRIPTION

MAIN FEEDWATER B LOOP

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
R7-034	Pipe To Tee Circ Seam	C5.21.34	CF					100	MT	NA				FWB-34
R7-034	Pipe To Tee Circ Seam	C5.21.34	CF					100	UT	40834				FWB-34
R7-035	Tee To Pipe Circ Seam	C5.21.35	CF			X		100	MT	NA	X	X	X	FWB-35
R7-035	Tee To Pipe Circ Seam	C5.21.35	CF			X		100	UT	40834	X	X	X	FWB-35
R7-036	Pipe To End Cap Circ Seam	C5.21.36	CF					100	MT	NA				FWB-36
R7-036	Pipe To End Cap Circ Seam	C5.21.36	CF					100	UT	40834				FWB-36
R7-037	Tee To Pipe Circ Seam	C5.21.37	CF					100	MT	NA				FWB-37
R7-037	Tee To Pipe Circ Seam	C5.21.37	CF					100	UT	40834				FWB-37
R7-038	Pipe To End Cap Circ Seam	C5.21.38	CF					100	MT	NA				FWB-38
R7-038	Pipe To End Cap Circ Seam	C5.21.38	CF					100	UT	40834				FWB-38
R7-039	18" Valve CV-2630 Bolts	C4.40.1	CD					100	UT		X	X	X	All Bolts Inplace
R7-040	18" Valve CV-2630 Bolts	C4.40.2	CD					100	UT		X	X	X	All Bolts Removed
R7-041	Rigid Hanger MFW-H12	C3.40.1	CC			X		100	PT	NA	X	X	X	SK#4-102
R7-042	Restraint MFW-H11	C3.40.2	CC				X	100	PT	NA	X	X	X	SK#4-101
R7-043	Hydraulic Snubber HS-31	C2.6.	CE2	X				100	PT	NA	X	X	X	SK#4-119
R7-044	Spring Hanger MFW-H1	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#5-1200
R7-045	Rigid Hanger MFW-H12	F-3	F-B			X		100	VT-3	NA	NA	NA	NA	SK#4-102
R7-046	Restraint MFW-H11	F-3	F-B				X	100	VT-3	NA	NA	NA	NA	SK#4-101
R7-047	Spring Hanger MFW-H10	F-4	F-C					100	VT-4	NA	NA	NA	NA	SK#4-100
R7-048	Spring Hanger MFW-H9	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-110
R7-049	Spring Hanger MFW-H8	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#4-109
R7-050	Hydraulic Snubber HS-30	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-131
R7-051	Hydraulic Snubber HS-31	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-119
R7-052	Hydraulic Snubber HS-32	F-4	F-C					100	VT-4	NA	NA	NA	NA	SK#4-120
R7-053	Hydraulic Snubber HS-33	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-121
R7-054	Hydraulic Snubber HS-34	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#4-122
R7-055	Hydraulic Snubber HS-35	F-4	F-C					100	VT-4	NA	NA	NA	NA	SK#4-127
R7-056	Hydraulic Snubber HS-36	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-128
R7-057	Hydraulic Snubber HS-37	F-4	F-C					100	VT-4	NA	NA	NA	NA	SK#4-124A
R7-058	Hydraulic Snubber HS-38	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-130
R7-059	Pressure Retaining Components	C7.10.1	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
R7-060	Pressure Retaining Components	C7.11.1	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
R7-061	Pressure Retaining Components	C7.40.1	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 27

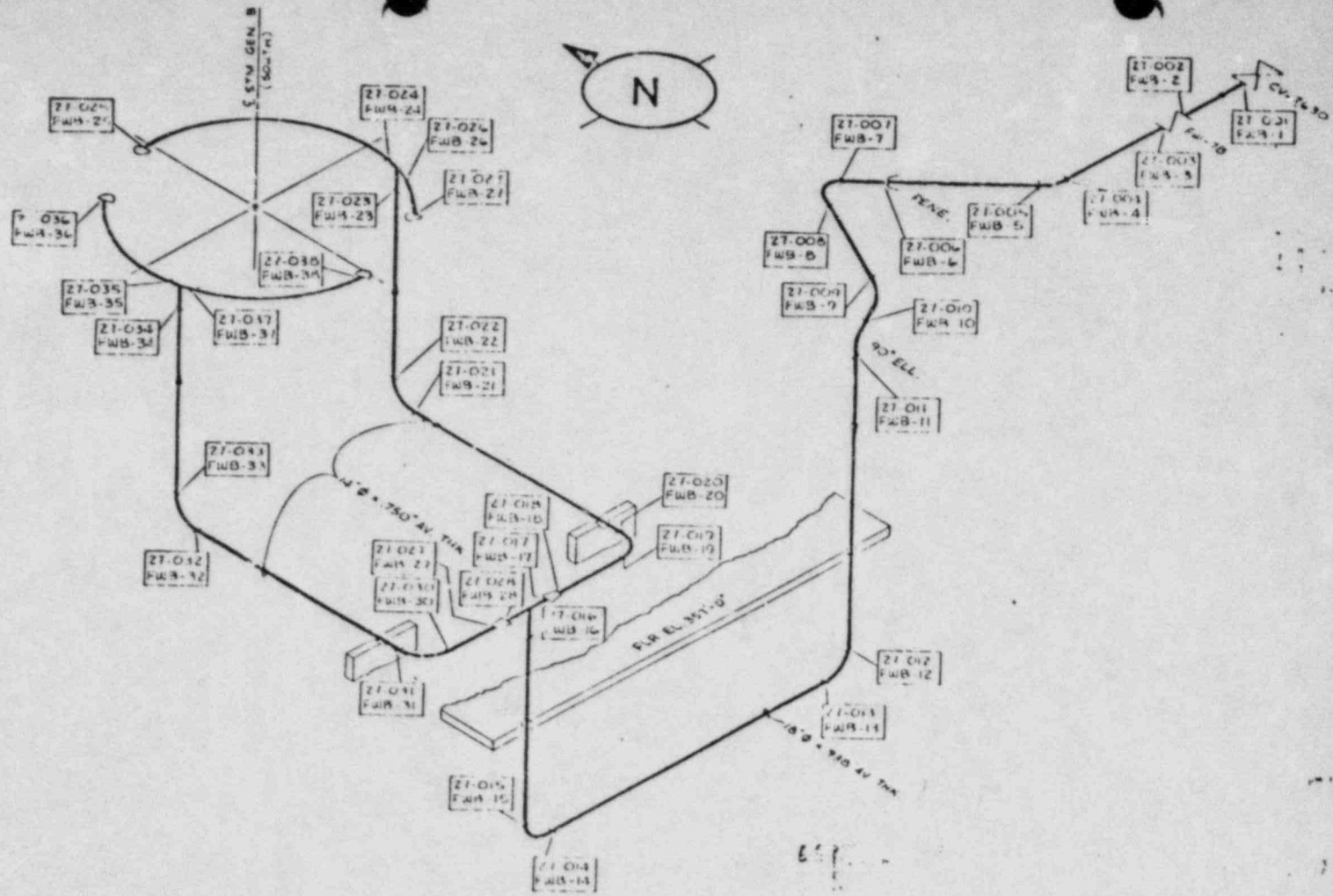
COMPONENT DESCRIPTION

MAIN FEEDWATER B LOOP

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
27-062	Pressure Retaining Components	C7.41.1 CH			K		100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry

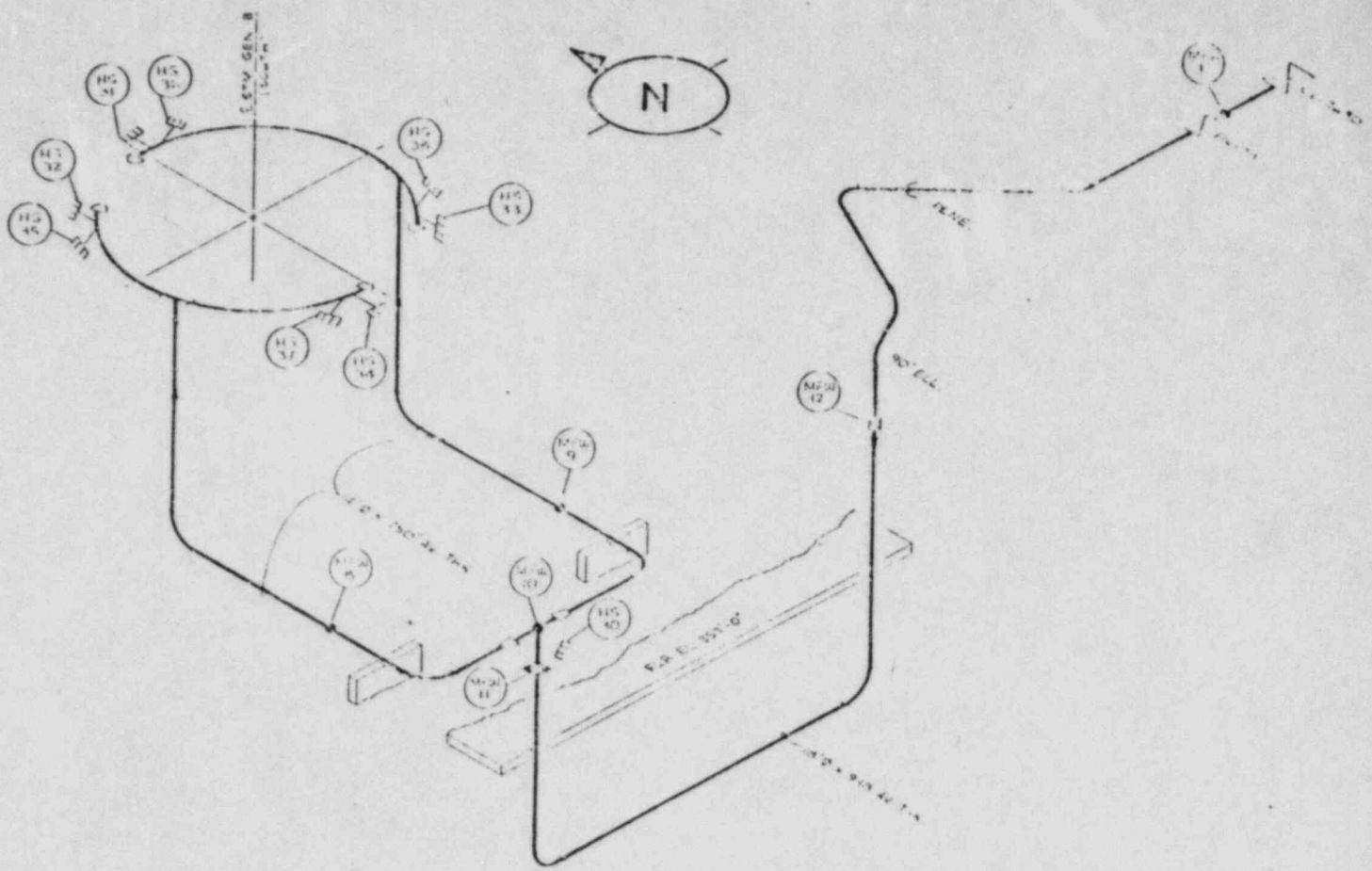


NO	DATE	REVISION	BY	CHKD	APVD
0	7/24	ISSUED PER I.S.I.	RJ	CJ	

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

FEEDWATER B
ZONE 27

DRAWING NO	REV.
ISI-127	0



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

FEEDWATER B

ZONE 27

ISI-1.(H.)

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 28

COMPONENT DESCRIPTION

MAIN STEAM A INSIDE CONTAINMENT

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
28-001	Stm Gen A Noz To Ell Circ Seam	C5.21.1	CF					100	MT	NA				MSA-1
28-001	Stm Gen A Noz To Ell Circ Seam	C5.21.1	CF					100	UT	40836				MSA-1
28-002	Ell To Pipe Circ Seam	C5.21.2	CF					100	MT	NA				MSA-2
28-002	Ell To Pipe Circ Seam	C5.21.2	CF					100	UT	40836				MSA-2
28-003	Pipe To Red Ell Circ Seam	C5.21.3	CF	X				100	MT	NA	X	X	X	MSA-3
28-003	Pipe To Red Ell Circ Seam	C5.21.3	CF	X				100	UT	40836	X	X	X	MSA-3
28-004	Red Ell To Pipe Circ Seam	C5.21.4	CF					100	MT	NA				MSA-4
28-004	Red Ell To Pipe Circ Seam	C5.21.4	CF					100	UT	40836				MSA-4
28-005	Pipe To Ell Circ Seam	C5.21.5	CF					100	MT	NA				MSA-5
28-005	Pipe To Ell Circ Seam	C5.21.5	CF					100	UT	40836				MSA-5
28-006	Ell To Pipe Circ Seam	C5.21.6	CF					100	MT	NA				MSA-6
28-006	Ell To Pipe Circ Seam	C5.21.6	CF					100	UT	40836				MSA-6
28-007	Pipe To Ell Circ Seam	C5.21.7	CF		X			100	MT	NA	X	X	X	MSA-7
28-007	Pipe To Ell Circ Seam	C5.21.7	CF		X			100	UT	40836	X	X	X	MSA-7
28-008	Ell To Pipe Circ Seam	C5.21.8	CF					100	MT	NA				MSA-8
28-008	Ell To Pipe Circ Seam	C5.21.8	CF					100	UT	40836				MSA-8
28-009	Pipe To Ell Circ Seam	C5.21.9	CF					100	MT	NA				MSA-9
28-009	Pipe To Ell Circ Seam	C5.21.9	CF					100	UT	40836				MSA-9
28-010	Ell To Tee Circ Seam	C5.21.10	CF					100	MT	NA				MSA-10
28-010	Ell To Tee Circ Seam	C5.21.10	CF					100	UT	40836				MSA-10
28-011	Stm Gen A Noz To Ell Circ Seam	C5.21.11	CF					100	MT	NA				MSA-11
28-011	Stm Gen A Noz To Ell Circ Seam	C5.21.11	CF					100	UT	40836				MSA-11
28-012	Ell To Pipe Circ Seam	C5.21.12	CF					100	MT	NA				MSA-12
28-012	Ell To Pipe Circ Seam	C5.21.12	CF					100	UT	40836				MSA-12
28-013	Pipe to Red Ell Circ Seam	C5.21.13	CF					100	MT	NA				MSA-13
28-013	Pipe To Red Ell Circ Seam	C5.21.13	CF					100	UT	40836				MSA-13
28-014	Red Ell To Pipe Circ Seam	C5.21.14	CF					100	MT	NA				MSA-14
28-014	Red Ell To Pipe Circ Seam	C5.21.14	CF					100	UT	40836				MSA-14
28-015	Pipe To Ell Circ Seam	C5.21.15	CF					100	MT	NA				MSA-15
28-015	Pipe To Ell Circ Seam	C5.21.15	CF					100	UT	40836				MSA-15
28-016	Ell To Pipe Circ Seam	C5.21.16	CF					100	MT	NA				MSA-16
28-016	Ell To Pipe Circ Seam	C5.21.16	CF					100	UT	40836				MSA-16
28-017	Pipe To Ell Circ Seam	C5.21.17	CF					100	MT	NA				MSA-17

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE- 28

PAGE 2 of 3

PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 2

MAIN STEAM A INSIDE CONTAINMENT

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B8-017	Pipe To Ell Circ Seam	C5.21.17 CF					100	UT	40836				MSA-17
B8-018	Ell To Pipe Circ Seam	C5.21.18 CF					100	MT	NA				MSA-18
B8-018	Ell To Pipe Circ Seam	C5.21 18 CF					100	UT	40836				MSA-18
B8-019	Pipe To Red Circ Seam	C5.21.19 CF					100	MT	NA				MSA-19
B8-019	Pipe To Red Circ Seam	C5.21.19 CF					100	UT	40836				MSA-19
B8-020	Red To Tee Circ Seam	C5.21.20 CF					100	MT	NA				MSA-20
B8-020	Red To Tee Circ Seam	C5.21.20 CF					100	UT	40836				MSA-20
B8-021	Tee To Pipe Circ Seam	C5.21.21 CF					100	MT	NA				MSA-21
B8-021	Tee To Pipe Circ Seam	C5.21.21 CF					100	UT	40836				MSA-21
B8-022	Pipe To Ell Circ Seam	C5.21.22 CF					100	MT	NA				MSA-22
B8-022	Pipe To Ell Circ Seam	C5.21.22 CF					100	UT	40836				MSA-22
B8-023	Ell To Pipe Circ Seam	C5.21.23 CF					100	MT	NA				MSA-23
B8-023	Ell To Pipe Circ Seam	C5.21.23 CF					100	UT	40836				MSA-23
B8-024	Pipe To Pipe Circ Seam	C5.21.24 CF					100	MT	NA				MSA-23A
B8-024	Pipe To Pipe Circ Seam	C5.21.24 CF					100	UT	40836				MSA-23A
B8-025	Pipe To Ell Circ Seam	C5.21.25 CF					100	MT	NA				MSA-24
B8-025	Pipe To Ell Circ Seam	C5.21.25 CF					100	UT	40836				MSA-24
B8-026	Ell To Pipe Circ Seam	C5.21.26 CF					100	MT	NA				MSA-25
B8-026	Ell To Pipe Circ Seam	C5.21.26 CF					100	UT	40836				MSA-25
B8-027	Pipe To Pene. Circ Seam	C5.21.27 CF					100	MT	NA				MSA-26
B8-027	Pipe To Pene. Circ Seam	C5.21.27 CF					100	UT	40836				MSA-26
B8-028	Hydraulic Snubber HS-17	C3.10.1 CC	X				100	PT MT	NA	X	X	X	SK#4-340
B8-029	Rigid Hanger MS-146	C3.10.2 CC	X				100	PT MT	NA	X	X	X	SK#4-331
B8-030	Spring Hanger MS-147	C3.10.3 CC			X		100	PT MT	NA	X	X	X	SK#4-332A
B8-031	Spring Hanger MS-148	C3.10.4 CC		X			100	PT MT	NA	X	X	X	SK#4-333A
B8-032	Hydraulic Snubber HS-17	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-340
B8-033	Hydraulic Snubber HS-16	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-339
B8-034	Hydraulic Snubber HS-20	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#4-343
B8-035	Hydraulic Snubber HS-18	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-338
B8-036	Hydraulic Snubber HS-19	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#4-341
B8-037	Spring Hanger MS-145	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-336A
B8-038	Rigid Hanger MS-146	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-331
B8-039	Spring Hanger MS-147	F-4 F-C				X	100	VT-4	NA	X	X	X	SK#4-332A

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 28

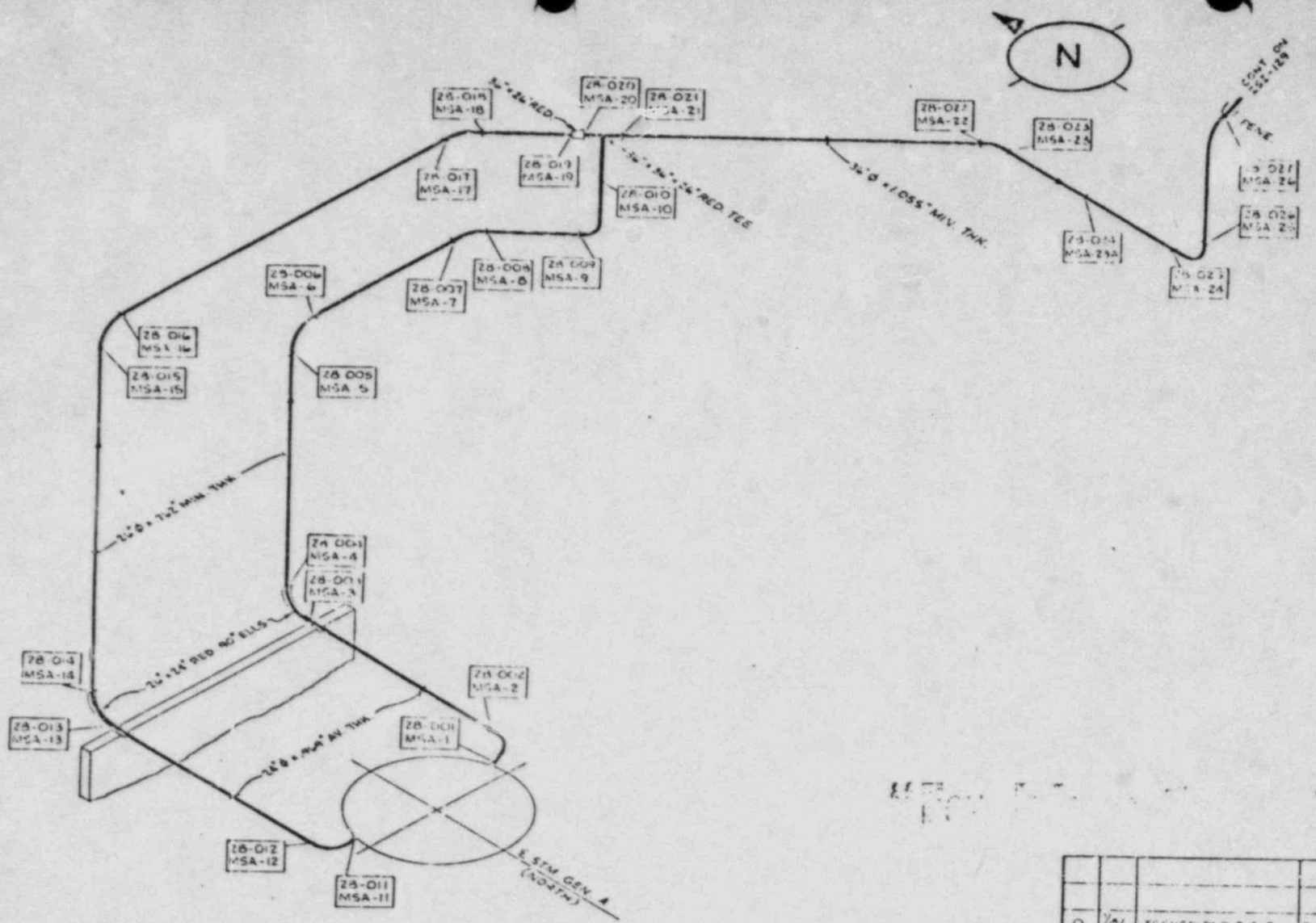
COMPONENT DESCRIPTION

MAIN STEAM A INSIDE CONTAINMENT

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-C.T. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B8-040	Spring Hanger MS-148	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-333A
B8-041	Failure Restraint MK-25-1	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#C-181
B8-042	Failure Restraint MK-25-2	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#C-181
B8-043	Failure Restraint MK-25-3	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#C-181
B8-044	Failure Restraint MK-25-4	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#C-181
B8-045	Failure Restraint MK-25-5	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#C-181
B8-046	Failure Restraint MK-25-6	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#C-181
B8-047	Failure Restraint MK-25-7	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#C-181
B8-048	Failure Restraint MK-25-8	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#C-181
B8-049	Failure Restraint MK-25-9	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#C-181
B8-050	Failure Restraint MK-25-10	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#C-181
B8-051	Failure Restraint MK-27-1	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#C-181
B8-052	Failure Restraint MK-27-2	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#C-181
B8-053	Failure Restraint MK-28-1	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#C-181
B8-054	Failure Restraint MK-30-1	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#C-183
B8-055	Failure Restraint MK-31-1	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#C-183
B8-056	Pressure Retaining Components	C7.20	C-H	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B8-057	Pressure Retaining Components	C7.21	C-H				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B8-058	Pressure Retaining Components	C7.40	C-H	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B8-059	Pressure Retaining Components	C7.41	C-H				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry



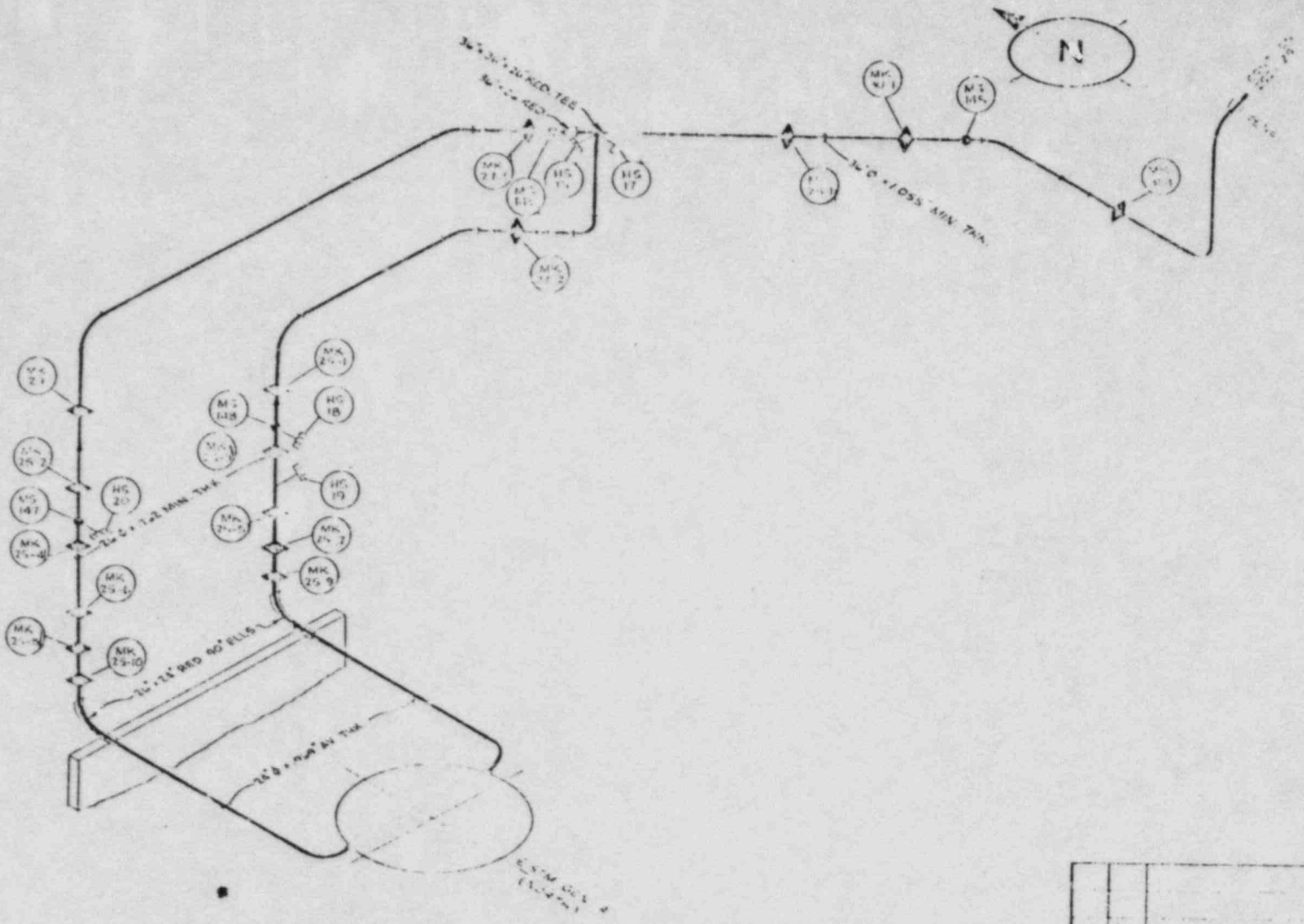
NO	DATE	REVISION	BY	CHKD
0	1/86	ISSUED PER I.S.I.	RJ	JJ

SCALE — DES. BY B.B.A. DRAWN R. JONES

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

MAIN STEAM A
ZONE 28

DRAWING NO. 1SI-128 REV. 0



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

MAIN STEAM A
ZONE 2B

ISI-128H

REV. 0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-29

COMPONENT DESCRIPTION

MAIN STEAM A OUTSIDE CONTAINMENT

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
E9-001	Pipe To Ell Circ Seam	C5.21.1 CF					100	MT	NA				MSA-27
E9-001	Pipe To Ell Circ Seam	C5.21.1 CF					100	UT	40836				MSA-27
E9-002	Ell To Pipe Circ Seam	C5.21.2 CF					100	MT	NA				MSA-28
E9-002	Ell To Pipe Circ Seam	C5.21.2 CF					100	UT	40836				MSA-28
E9-003	Pipe To Sweepolet	C5.31.1 CF					100	MT	NA				MSA-29
E9-004	Sweepolet To Flange Circ Seam	C5.21.3 CF					100	MT	NA				MSA-30
E9-004	Sweepolet To Flange Circ Seam	C5.21.3 CF					100	UT	40836				MSA-30
E9-005	Pipe To Sweepolet	C5.31.2 CF					100	MT	NA				MSA-31
E9-006	Sweepolet To Flange Circ Seam	C5.21.4 CF					100	MT	NA				MSA-32
E9-006	Sweepolet To Flange Circ Seam	C5.21.4 CF					100	UT	40836				MSA-32
E9-007	Pipe To Sweepolet	C5.31.3 CF					100	MT	NA				MSA-33
E9-008	Sweepolet To Flange Circ Seam	C5.21.5 CF					100	MT	NA				MSA-34
E9-008	Sweepolet To Flange Circ Seam	C5.21.5 CF					100	UT	40836				MSA-34
E9-009	Pipe To Sweepolet	C5.31.4 CF					100	MT	NA				MSA-35
E9-010	Sweepolet To Flange Circ Seam	C5.21.6 CF					100	MT	NA				MSA-36
E9-010	Sweepolet To Flange Circ Seam	C5.21.6 CF					100	UT	40836				MSA-36
E9-011	Pipe To Sweepolet	C5.31.5 CF					100	MT	NA				MSA-37
E9-012	Sweepolet To Flange Circ Seam	C5.21.7 CF					100	MT	NA				MSA-38
E9-012	Sweepolet To Flange Circ Seam	C5.21.7 CF					100	UT	40836				MSA-38
E9-013	Pipe To Sweepolet	C5.31.6 CF					100	MT	NA				MSA-39
E9-014	Sweepolet To Flange Circ Seam	C5.21.8 CF		X			100	MT	NA	X	X	X	MSA-40
E9-014	Sweepolet To Flange Circ Seam	C5.21.8 CF		X			100	UT	40836	X	X	X	MSA-40
E9-015	Pipe To Sweepolet	C5.31.7 CF					100	MT	NA				MSA-41
E9-016	Sweepolet To Flange Circ Seam	C5.21.9 CF					100	MT	NA				MSA-42
E9-016	Sweepolet To Flange Circ Seam	C5.21.9 CF					100	UT	40836				MSA-42
E9-017	Pipe to Sweepolet	C5.31.8 CF					100	MT	NA				MSA-43
E9-018	Sweepolet To Flange Circ Seam	C5.21.10 CF					100	MT	NA				MSA-44
E9-018	Sweepolet To Flange Circ Seam	C5.21.10 CF					100	UT	40836				MSA-44
E9-019	Sweepolet To Tee Pipe Cir Seam	C5.11.1 CF					100	MT	NA				MSA-45
E9-020	Pipe To Tee Circ Seam	C5.11.2 CF					100	MT	NA				MSA-46
E9-021	Tee To Pipe Circ Seam	C5.11.3 CF					100	MT	NA				MSA-47
E9-022	Pipe To Ell Circ Seam	C5.11.4 CF					100	MT	NA				MSA-48
E9-023	Ell To Ell Circ Seam	C5.11.5 CF					100	MT	NA				MSA-49

FORM ENG-01!

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 29

COMPONENT DESCRIPTION

MAIN STEAM A OUTSIDE CONTAINMENT

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL. BLOCK	PREP-REQ S	I	WP	REMARKS
29-024	Ell To Pipe Circ Seam	C5.11.6	CF					100	MT	NA				MSA-50
29-025	Pipe To Ell Circ Seam	C5.11.7	CF					100	MT	NA				MSA-51
29-026	Ell To Pipe Circ Seam	C5.11.8	CF					100	MT	NA				MSA-52
29-027	Pipe To Ell Circ Seam	C5.11.9	CF					100	MT	NA				MSA-53
29-028	Ell To Pipe Circ Seam	C5.11.10	CF					100	MT	NA				MSA-54
29-029	Pipe To Ell Circ Seam	C5.11.11	CF					100	MT	NA				MSA-55
29-030	Ell To Pipe Circ Seam	C5.11.12	CF			X		100	MT	NA	X	X	X	MSA-56
29-031	Pipe To Ell Circ Seam	C5.11.13	CF					100	MT	NA				MSA-57
29-032	Ell To Pipe Circ Seam	C5.11.14	CF					100	MT	NA				MSA-58
29-033	Pipe To Ell Circ Seam	C5.11.15	CF					100	MT	NA				MSA-59
29-034	Ell To Pipe Circ Seam	C5.11.16	CF					100	MT	NA				MSA-60
29-035	Pipe To Red Circ Seam	C5.11.17	CF					100	MT	NA				MSA-61
29-036	Red To Valve Circ Seam	C5.11.18	CF					100	MT	NA				MSA-62
29-037	Pipe To Pipe Circ Seam	C5.11.19	CF					100	MT	NA				MSA-63
29-037	Pipe To Pipe Circ Seam	C5.11.20	CF					100	UT	40836				MSA-63
29-038	Pipe To Ell Circ Seam	C5.11.21	CF					100	MT	NA				MSA-64
29-038	Pipe To Ell Circ Seam	C5.11.22	CF					100	UT	40836				MSA-64
29-039	Ell To Pipe Circ Seam	C5.11.23	CF					100	MT	NA				MSA-65
29-039	Ell To Pipe Circ Seam	C5.11.24	CF					100	UT	40836				MSA-65
29-040	Pipe To Valve Circ Seam	C5.11.25	CF					100	MT	NA				MSA-66
29-04	Pipe To Valve Circ Seam	C5.11.26	CF					100	UT	40836				MSA-66
29-041	30" Valve CV-2691 Bolts	C4.40.1	CD					100	UT		X	X	X	All Bolts
29-042	Rigid danger MS-126	C3.40.1	CC		X			100	PT MT	NA	X	X	X	SK#5-151
29-043	Guide MS-171	C3.40.2	CC			X		100	PT MT	NA	X	X	X	SK#4-307
29-044	Rigid Hanger MS-163	C3.40.3	CC	X				100	PT MT	NA	X	X	X	SK#4-306
29-045	Restraint MS-164	C3.40.4	CC				X	100	PT MT	NA	X	X	X	SK#4-310
29-046	Restraint [illegible]-200	F-3	F-C	X				100	VT-3	NA	X	X	X	SK#4-346
29-047	Rigid Hanger MS-126	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#5-151
29-048	Guide MS-171	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#4-307
29-049	Rigid Hanger MS-163	F-3	F-C	X				100	VT-3	NA	X	X	X	SK#4-306
29-050	Spring Hanger MS-202	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#
29-051	Restraint MS-164	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#4-310
29-052	Pressure Retaining Components	C7.20	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 29

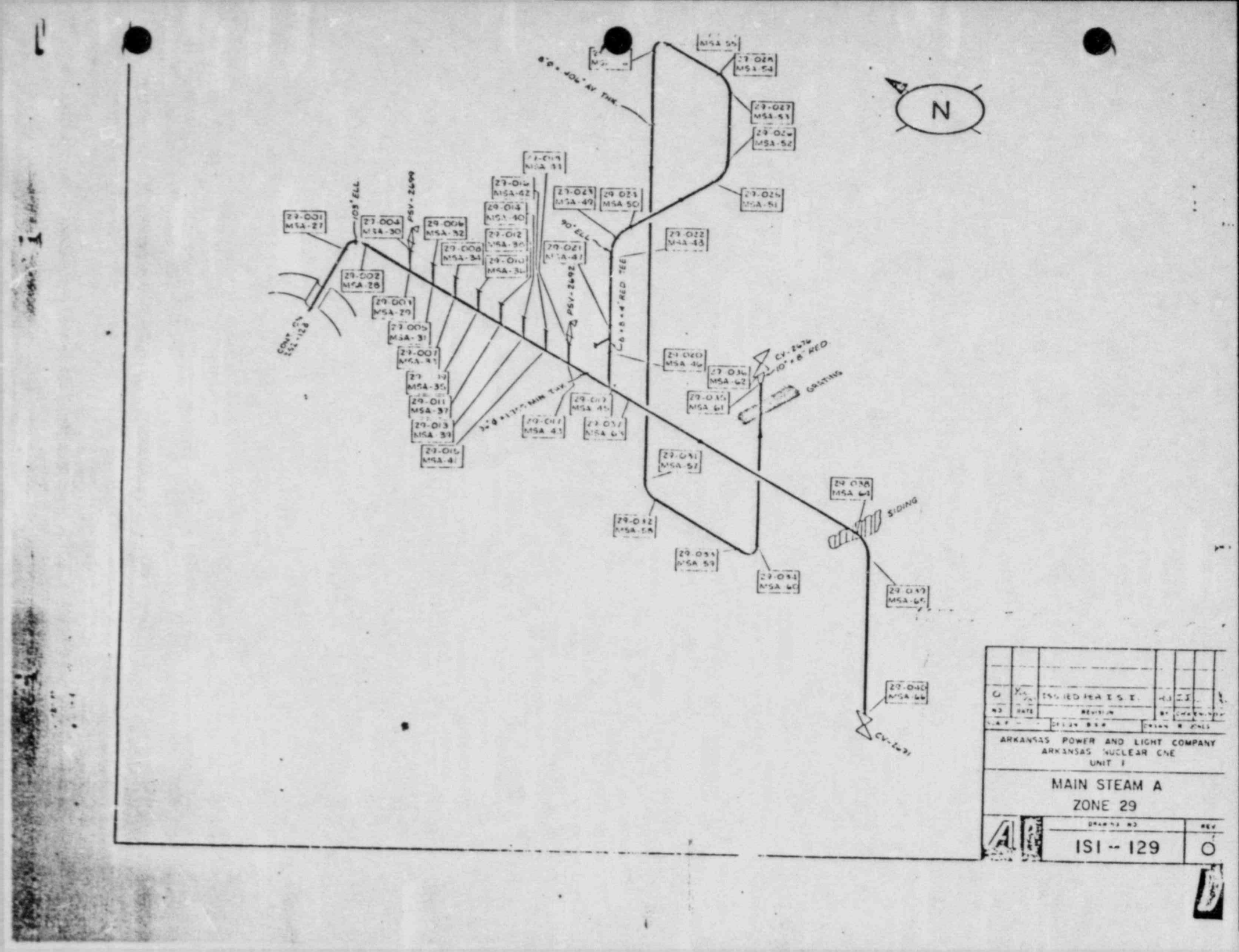
COMPONENT DESCRIPTION

MAIN STEAM A OUTSIDE CONTAINMENT

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
9-053	Pressure Retaining Components	C7.21 CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
9-054	Pressure Retaining Components	C7.40 CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
9-055	Pressure Retaining Components	C7.41 CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry



NO	DATE	REVISION	BY	CHK'D
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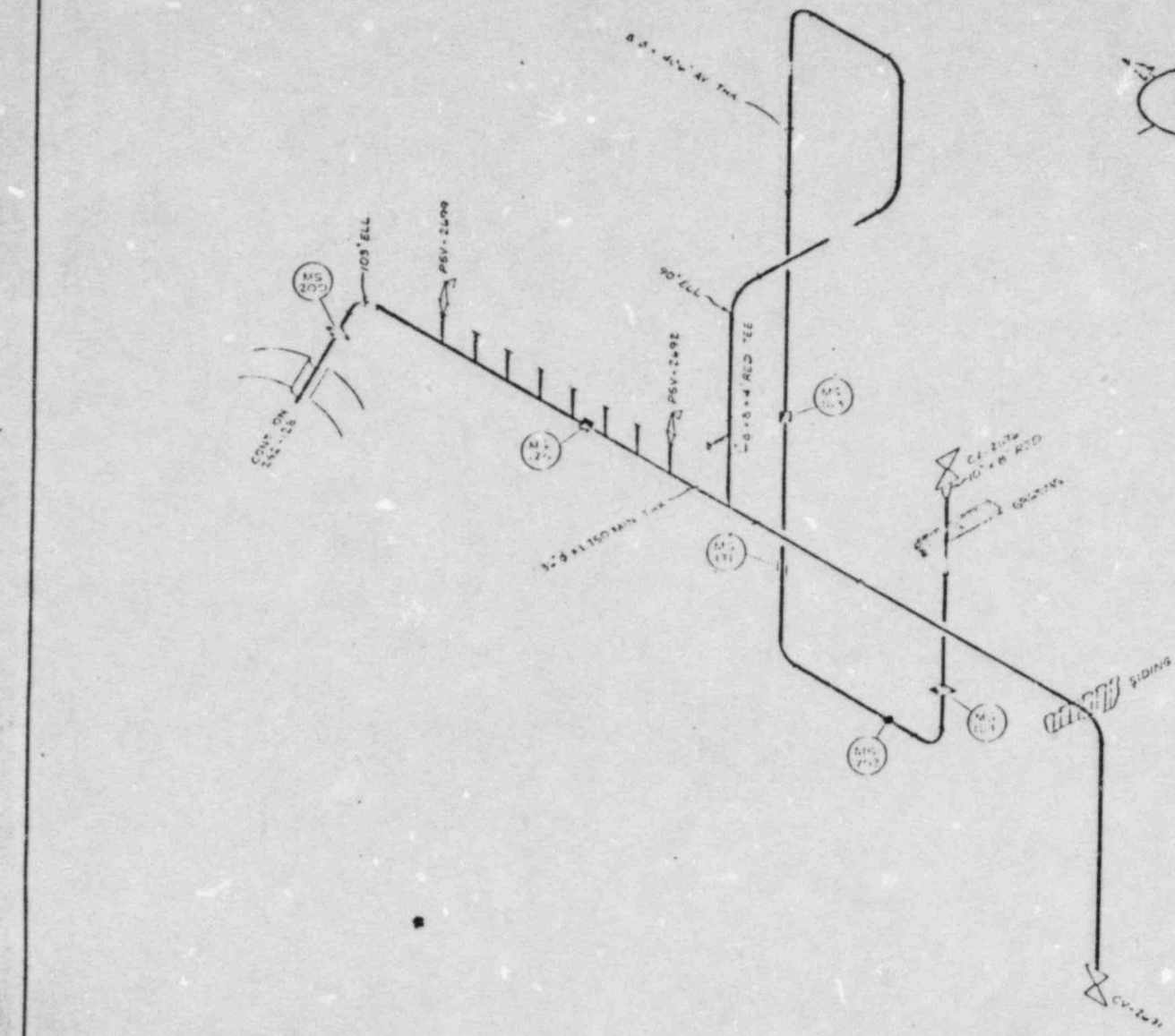
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

MAIN STEAM A
ZONE 29

DRAWING NO	REV
ISI - 129	0



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

MAIN STEAM A
ZONE 29

ISI - 129H

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 30

COMPONENT DESCRIPTION

MAIN STEAM B INSIDE CONTAINMENT

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B0-001	Stm Gen B Noz To Ell Circ Seam	C5.21.1 CF					100	MT	NA				MSB-1
B0-001	Stm Gen B Noz To Ell Circ Seam	C5.21.1 CF					100	UT	40836				MSB-1
B0-002	Ell To Pipe Circ Seam	C5.21.2 CF					100	MT	NA				MSB-2
B0-002	Ell To Pipe Circ Seam	C5.21.2 CF					100	UT	40836				MSB-2
B0-003	Pipe To Red Ell Circ Seam	C5.21.3 CF					100	MT	NA				MSB-3
B0-003	Pipe To Red Ell Circ Seam	C5.21.3 CF					100	UT	40836				MSB-3
B0-004	Red Ell To Pipe Circ Seam	C5.21.4 CF					100	MT	NA				MSB-4
B0-004	Red Ell To Pipe Circ Seam	C5.21.4 CF					100	UT	40836				MSB-4
B0-005	Pipe To Ell Circ Seam	C5.21.5 CF					100	MT	NA				MSB-5
B0-005	Pipe To Ell Circ Seam	C5.21.5 CF					100	UT	40836				MSB-5
B0-006	Ell To Pipe Circ Seam	C5.21.6 CF					100	MT	NA				MSB-6
B0-006	Ell To Pipe Circ Seam	C5.21.6 CF					100	UT	40836				MSB-6
B0-007	Pipe To Ell Circ Seam	C5.21.7 CF	X				100	MT	NA	X	X	X	MSB-7
B0-007	Pipe To Ell Circ Seam	C5.21.7 CF	X				100	UT	40836	X	X	X	MSB-7
B0-008	Ell To Pipe Circ Seam	C5.21.8 CF					100	MT	NA				MSB-8
B0-008	Ell To Pipe Circ Seam	C5.21.8 CF					100	UT	40836				MSB-8
B0-009	Pipe To Ell Circ Seam	C5.21.9 CF					100	MT	NA				MSB-9
B0-009	Pipe To Ell Circ Seam	C5.21.9 CF					100	UT	40836				MSB-9
B0-010	Ell To Tee Circ Seam	C5.21.10 CF					100	MT	NA				MSB-10
B0-010	Ell To Tee Circ Seam	C5.21.10 CF					100	UT	40836				MSB-10
B0-011	Stm Gen B Noz To Ell Circ Seam	C5.21.11 CF					100	MT	NA				MSB-11
B0-011	Stm Gen B Noz To Ell Circ Seam	C5.21.11 CF					100	UT	40836				MSB-11
B0-012	Ell To Pipe Circ Seam	C5.21.12 CF					100	MT	NA				MSB-12
B0-012	Ell To Pipe Circ Seam	C5.21.12 CF					100	UT	40836				MSB-12
B0-013	Pipe To Red Ell Circ Seam	C5.21.13 CF					100	MT	NA				MSB-13
B0-013	Pipe To Red Ell Circ Seam	C5.21.13 CF					100	UT	40836				MSB-13
B0-014	Red Ell To Pipe Circ Seam	C5.21.14 CF					100	MT	NA				MSB-14
B0-014	Red Ell To Pipe Circ Seam	C5.21.14 CF					100	UT	40836				MSB-14
B0-015	Pipe To Ell Circ Seam	C5.21.15 CF					100	MT	NA				MSB-15
B0-015	Pipe To Ell Circ Seam	C5.21.15 CF					100	UT	40836				MSB-15
B0-016	Ell To Pipe Circ Seam	C5.21.16 CF					100	MT	NA				MSB-16
B0-016	Ell To Pipe Circ Seam	C5.21.16 CF					100	UT	40836				MSB-16
B0-017	Pipe To Ell Circ Seam	C5.21.17 CF					100	MT	NA				MSB-17

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 30

COMPONENT DESCRIPTION

MAIN STEAM B INSIDE CONTAINMENT

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B0-017	Pipe To Ell Circ Seam	C5.21.17	CF					100	UT	40836				MSB-17
B0-018	Ell To Pipe Circ Seam	C5.21.18	CF					100	MT	NA				MSB-18
B0-018	Ell To Pipe Circ Seam	C5.21.18	CF					100	UT	40836				MSB-18
B0-019	Pipe To Red Circ Seam	C5.21.19	CF					100	MT	NA				MSB-19
B0-019	Pipe To Red Circ Seam	C5.21.19	CF					100	UT	40836				MSB-19
B0-020	Red To Tee Circ Seam	C5.21.20	CF					100	MT	NA				MSB-20
B0-020	Red To Tee Circ Seam	C5.21.20	CF					100	UT	40836				MSB-20
B0-021	Tee To Pipe Circ Seam	C5.21.21	CF					100	MT	NA				MSB-21
B0-021	Tee To Pipe Circ Seam	C5.21.21	CF					100	UT	40836				MSB-21
B0-022	Pipe To Ell Circ Seam	C5.21.22	CF					100	MT	NA				MSB-22
B0-022	Pipe To Ell Circ Seam	C5.21.22	CF					100	UT	40836				MSB-22
B0-023	Ell To Pipe Circ Seam	C5.21.23	CF					100	MT	NA				MSB-23
B0-023	Ell To Pipe Circ Seam	C5.21.23	CF					100	UT	40836				MSB-23
B0-024	Pipe To Pipe Circ Seam	C5.21.24	CF					100	MT	NA				MSB-23A
B0-024	Pipe To Pipe Circ Seam	C5.21.24	CF					100	UT	40836				MSB-23A
B0-025	Pipe To Ell Circ Seam	C5.21.25	CF					100	MT	NA				MSB-24
B0-025	Pipe To Ell Circ Seam	C5.21.25	CF					100	UT	40836				MSB-24
B0-026	Ell To Pipe Circ Seam	C5.21.26	CF					100	MT	NA				MSB-25
B0-026	Ell To Pipe Circ Seam	C5.21.26	CF					100	UT	40836				MSB-25
B0-027	Pipe To Ell Circ Seam	C5.21.27	CF					100	MT	NA				MSB-26
B0-027	Pipe To Ell Circ Seam	C5.21.27	CF					100	UT	40836				MSB-26
B0-028	Ell To Pene. Circ Seam	C5.21.28	CF					100	MT	NA				MSB-27
B0-028	Ell To Pene. Circ Seam	C5.21.28	CF					100	UT	40836				MSB-27
B0-029	Rigid Hanger MS-141	C3.40.1	CC	X				100	PT MT	NA	X	X	X	SK#4-327
B0-030	Hydraulic Snubber MS-3	C3.40.2	CC	X				100	PT MT	NA	X	X	X	SK#4-335
B0-031	Spring Hanger MS-139	C3.40.3	CC		X			100	PT MT	NA	X	X	X	SK#4-326
B0-032	Rigid Hanger MS-141	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#4-327
B0-033	Restraint MS-138	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#4-325
B0-034	Hydraulic Snubber MS-3	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-335
B0-035	Spring Hanger MS-142	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-328
B0-036	Spring Hanger MS-139	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-326
B0-037	Hydraulic Snubber MS-4	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#4-334
B0-038	Spring Hanger MS-143	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#4-329

FORM ENG-01!

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 30

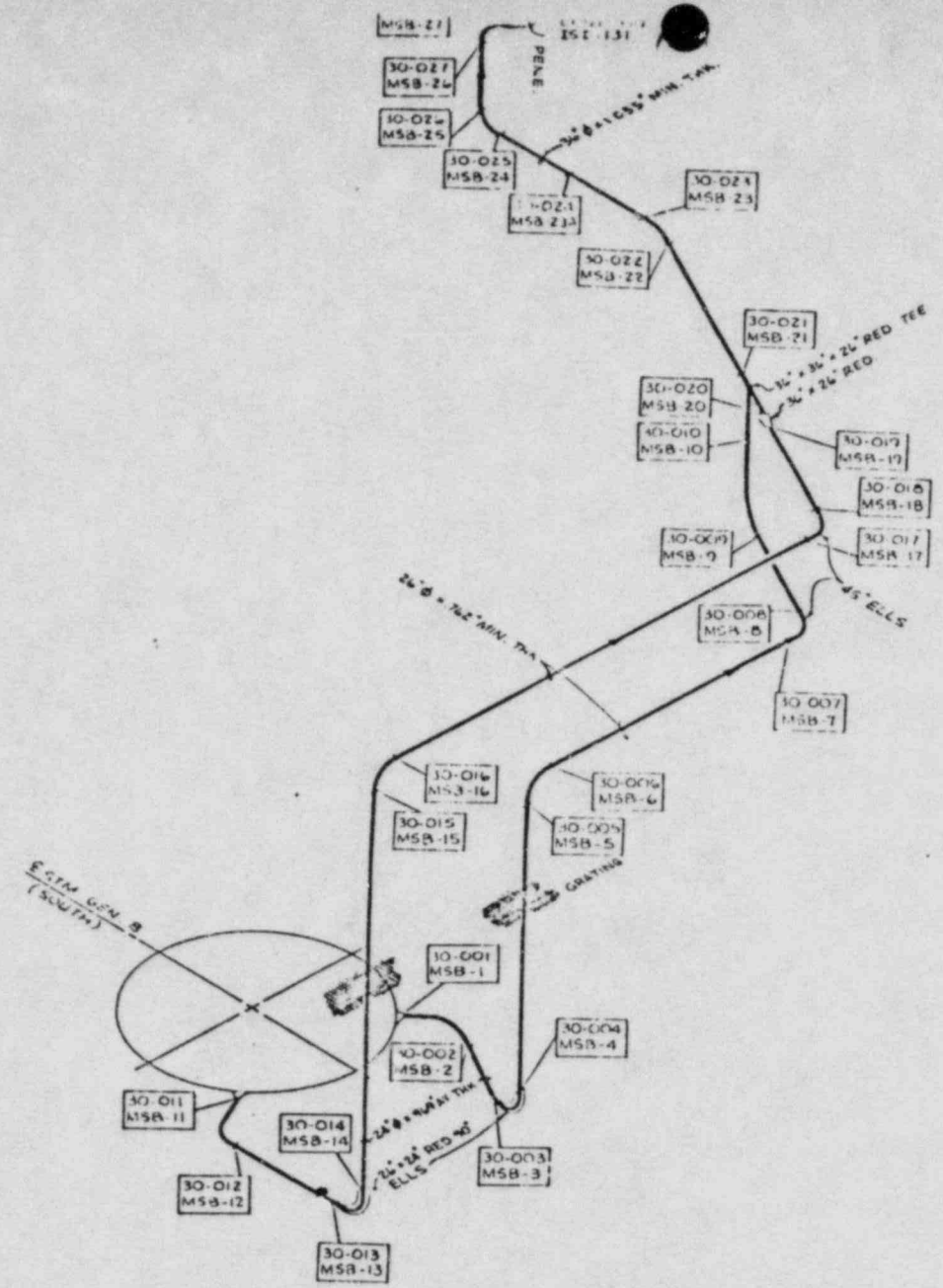
COMPONENT DESCRIPTION

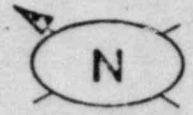
MAIN STEAM B INSIDE CONTAINMENT

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B0-039	Hydraulic Snubber HS-15	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-337
B0-040	Spring Hanger MS-144	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#4-330
B0-041	Failure Restraint MK-25-12	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#C-181
B0-042	Failure Restraint MK-25-11	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#C-181
B0-043	Failure Restraint MK-26-2	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#C-181
B0-044	Failure Restraint MK-26-1	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#C-181
B0-045	Failure Restraint MK-27-3	F-3	F-C					100	VT-3	NA	NA	NA	NA	SK#C-181
B0-046	Failure Restraint MK-27-4	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#C-181
B0-047	Failure Restraint MK-28-2	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#C-181
B0-048	Failure Restraint MK-30-2	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#C-183
B0-049	Failure Restraint MK-31-2	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#C-183
B0-050	Pressure Retaining Components	C7.20	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B0-051	Pressure Retaining Components	C7.21	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B0-052	Pressure Retaining Components	C7.40	CH	X	X	X	X	100	V 2	NA	NA	NA	NA	Pressure Retaining Boundry
B0-053	Pressure Retaining Components	C7.41	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry





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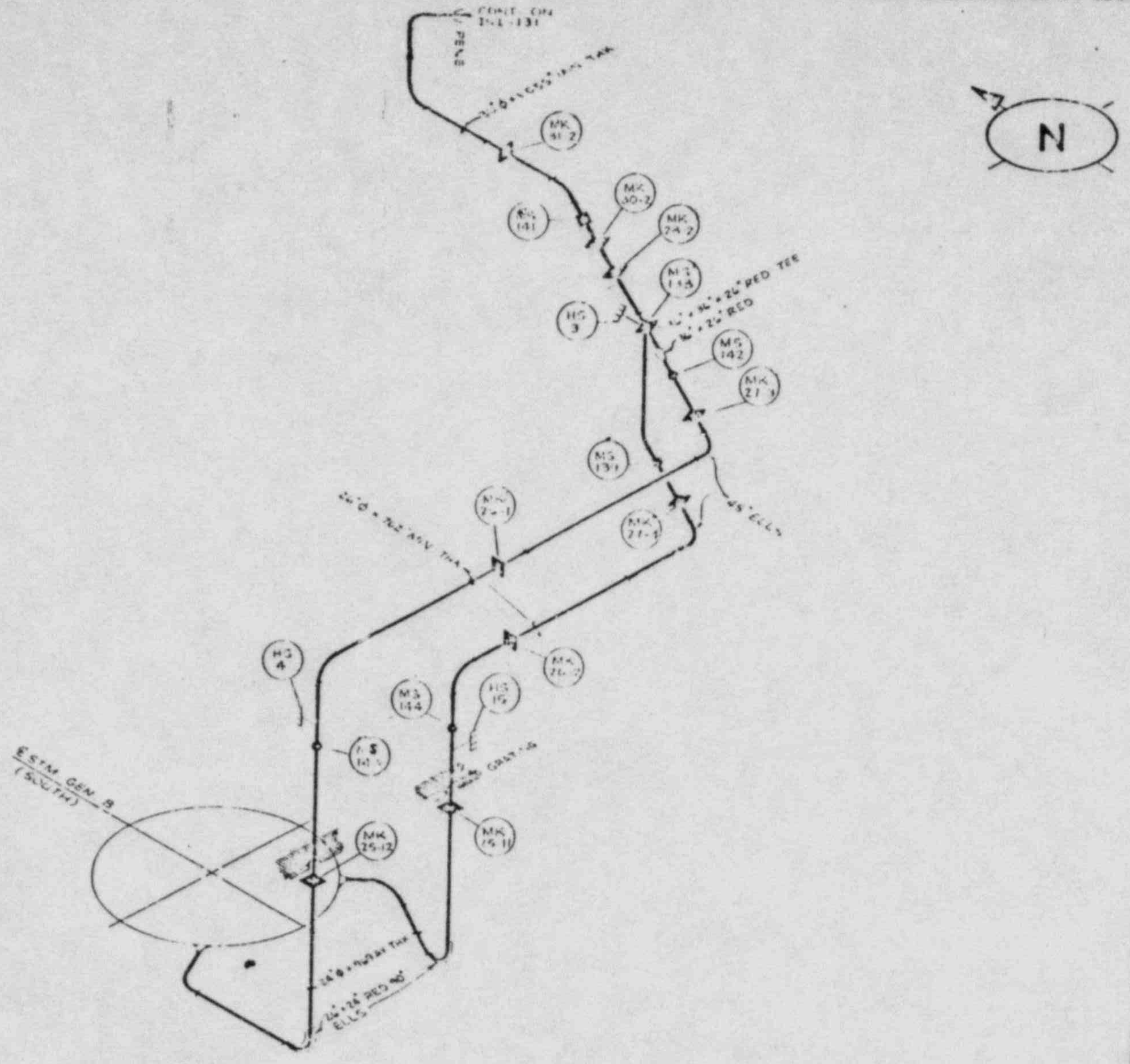
NO	DATE	REVISION	BY	CHKD	APPD

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

MAIN STEAM B
ZONE 30

	DRAWING NO.	REV.
A	ISI-130	0



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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

MAIN STEAM B
~~ZONE~~ 30

DRAWING NO. ISI-130H
REV. 0

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FORM ENG-011 | PROGRAM PLAN AND SCHEDULE | REVISED 12/01/83

ANO-UNIT-ONE | ZONE- 31 | PAGE-1 of 3

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS-2

MAIN STEAM B OUTSIDE CONTAINMENT

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-001	Pipe To Ell Circ Seam	C5.21.1 CF					100	MT	NA				MSB-28
B1-001	Pipe To Ell Circ Seam	C5.21.1 CF					100	UT	40836				MSB-28
B1-002	Ell To Pipe Circ Seam	C5.21.2 CF					100	MT	NA				MSB-29
B1-002	Ell To Pipe Circ Seam	C5.21.2 CF					100	UT	40836				MSB-29
B1-003	Pipe To Sweepolet	C5.31.1 CF					100	MT	NA				MSB-30
B1-004	Sweepolet To Ell Circ Seam	C5.11.1 CF					100	MT	NA				MSB-31
B1-005	Ell To Pipe Circ Seam	C5.11.2 CF					100	MT	NA				MSB-32
B1-006	Pipe To Tee Circ Seam	C5.11.3 CF					100	MT	NA				MSB-33
B1-007	Tee To Cap Circ Seam	C5.11.4 CF					100	MT	NA				MSB-34
B1-008	Tee To Pipe Circ Seam	C5.11.5 CF					100	MT	NA				MSB-35
B1-009	Pipe To Ell Circ Seam	C5.11.6 CF					100	MT	NA				MSB-36
B1-010	Ell To Pipe Circ Seam	C5.11.7 CF					100	MT	NA				MSB-37
B1-011	Pipe To Ell Circ Seam	C5.11.8 CF					100	MT	NA				MSB-38
B1-012	Ell To Pipe Circ Seam	C5.11.9 CF					100	MT	NA				MSB-39
B1-013	Pipe To Ell Circ Seam	C5.11.10 CF					100	MT	NA				MSB-40
B1-014	Ell To Ell Circ Seam	C5.11.11 CF					100	MT	NA				MSB-41
B1-015	Ell To Pipe Circ Seam	C5.11.12 CF					100	MT	NA				MSB-42
B1-016	Pipe To Ell Circ Seam	C5.11.13 CF			X		100	MT	NA	X	X	X	MSB-43
B1-017	Ell To Ell Circ Seam	C5.11.14 CF					100	MT	NA				MSB-44
B1-018	Ell To Pipe Circ Seam	C5.11.15 CF					100	MT	NA				MSB-45
B1-019	Pipe To Red Circ Seam	C5.11.16 CF					100	MT	NA				MSB-46
B1-020	Red To Valve Circ Seam	C5.11.17 CF					100	MT	NA				MSB-47
B1-021	Pipe To Sweepolet	C5.31.1 CF	X				100	MT	NA	X	X	X	MSB-48
B1-022	Sweepolet To Flange Circ Seam	C5.21.3 CF		X			100	MT	NA	X	X	X	MSB-49
B1-022	Sweepolet To Flange Circ Seam	C5.21.3 CF		X			100	UT	40836	X	X	X	MSB-49
B1-023	Pipe To Sweepolet	C5.31.2 CF					100	MT	NA				MSB-50
B1-024	Sweepolet To Flange Circ Seam	C5.21.4 CF					100	MT	NA				MSB-51
B1-024	Sweepolet To Flange Circ Seam	C5.21.4 CF					100	UT	40836				MSB-51
B1-025	Pipe To Sweepolet	C5.31.3 CF					100	MT	NA				MSB-52
B1-026	Sweepolet To Flange Circ Seam	C5.21.5 CF					100	MT	NA				MSB-53
B1-026	Sweepolet To Flange Circ Seam	C5.21.5 CF					100	UT	40836				MSB-53
B1-027	Pipe To Sweepolet	C5.31.4 CF					100	MT	NA				MSB-54
B1-028	Sweepolet To Flange Circ Seam	C5.21.6 CF					100	MT	NA				MSB-55

FORM LAG-011 | PROGRAM PLAN AND SCHEDULE | REVISED 12/01/83

ANO-UNIT-ONE | ZONE-31 | PAGE-2 of 3

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS-2

MAIN STEAM B OUTSIDE CONTAINMENT

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-028	Sweepolet To Flange Circ Seam	C5.21 6 CF					100	UT	40836				MSB-55
B1-029	Pipe To Sweepolet	C5.31.5 CF					100	MT	NA				MSB-56
B1-030	Sweepolet To Flange Circ Seam	C5.21.7 CF					100	MT	NA				MSB-57
B1-030	Sweepolet To Flange Circ Seam	C5.21.7 CF					100	UT	40836				MSB-57
B1-031	Pipe To Sweepolet	C5.31.6 CF					100	MT	NA				MSB-58
B1-032	Sweepolet To Flange Circ Seam	C5.21.8 CF					100	MT	NA				MSB-59
B1-032	Sweepolet To Flange Circ Seam	C5.21.8 CF					100	UT	40836				MSB-59
B1-033	Pipe To Sweepolet	C5.31.7 CF					100	MT	NA				MSB-60
B1-034	Sweepolet To Flange Circ Seam	C5.21.9 CF					100	MT	NA				MSB-61
B1-034	Sweepolet To Flange Circ Seam	C5.21.9 CF					100	UT	40836				MSB-61
B1-035	Pipe To Sweepolet	C5.31.6 CF					100	MT	NA				MSB-62
B1-036	Sweepolet To Flange Circ Seam	C5.21.10 CF					100	MT	NA				MSB-63
B1-036	Sweepolet To Flange Circ Seam	C5.21.10 CF					100	UT	40836				MSB-63
B1-037	Pipe To Pipe Circ Seam	C5.21.11 CF					100	MT	NA				MSB-64
B1-037	Pipe To Pipe Circ Seam	C5.21.11 CF					100	UT	40836				MSB-64
B1-038	Pipe To Ell Circ Seam	C5.21.12 CF					100	MT	NA				MSB-65
B1-038	Pipe To Ell Circ Seam	C5.21.12 CF					100	UT	40836				MSB-65
B1-039	Ell To Pipe Circ Seam	C5.21.13 CF					100	MT	NA				MSB-66
B1-039	Ell To Pipe Circ Seam	C5.21.13 CF					100	UT	40836				MSB-66
B1-040	Pipe To Valve Circ Seam	C5.21.14 CF					100	MT	NA				MSB-67
B1-040	Pipe To Valve Circ Seam	C5.21.14 CF					100	UT	40836				MSB-67
B1-042	Spring Hanger MS-173	C3.40.1 CC	X				100	PT MT	NA	X	X	X	SK#4-317
B1-043	Restraint MS-168	C3.40.2 CC		X			100	PT MT	NA	X	X	X	SK#4-321
B1-044	Rigid Hanger MS-111	C3.40.3 CC			X		100	PT MT	NA	X	X	X	SK#5-152
B1-045	Rigid Hanger MS-112	C3.40.4 CC				X	100	PT MT	NA	X	X	X	SK#5-138
B1-046	Spring Hanger MS-173	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#4-317
B1-047	Guide MS-172	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#4-319
B1-048	Spring Hanger MS-203	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#4-332
B1-049	Restraint MS-168	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#4-321
B1-050	Rigid Hanger MS-111	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#5-152
B1-051	Rigid Hanger MS-112	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#5-138
B1-052	Hydraulic Snubber MS-5	F-4 F-C					X 100	VT-4	NA	NA	NA	NA	SK#5-157
B1-053	Pressure Retaining Components	C7.20 CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-31

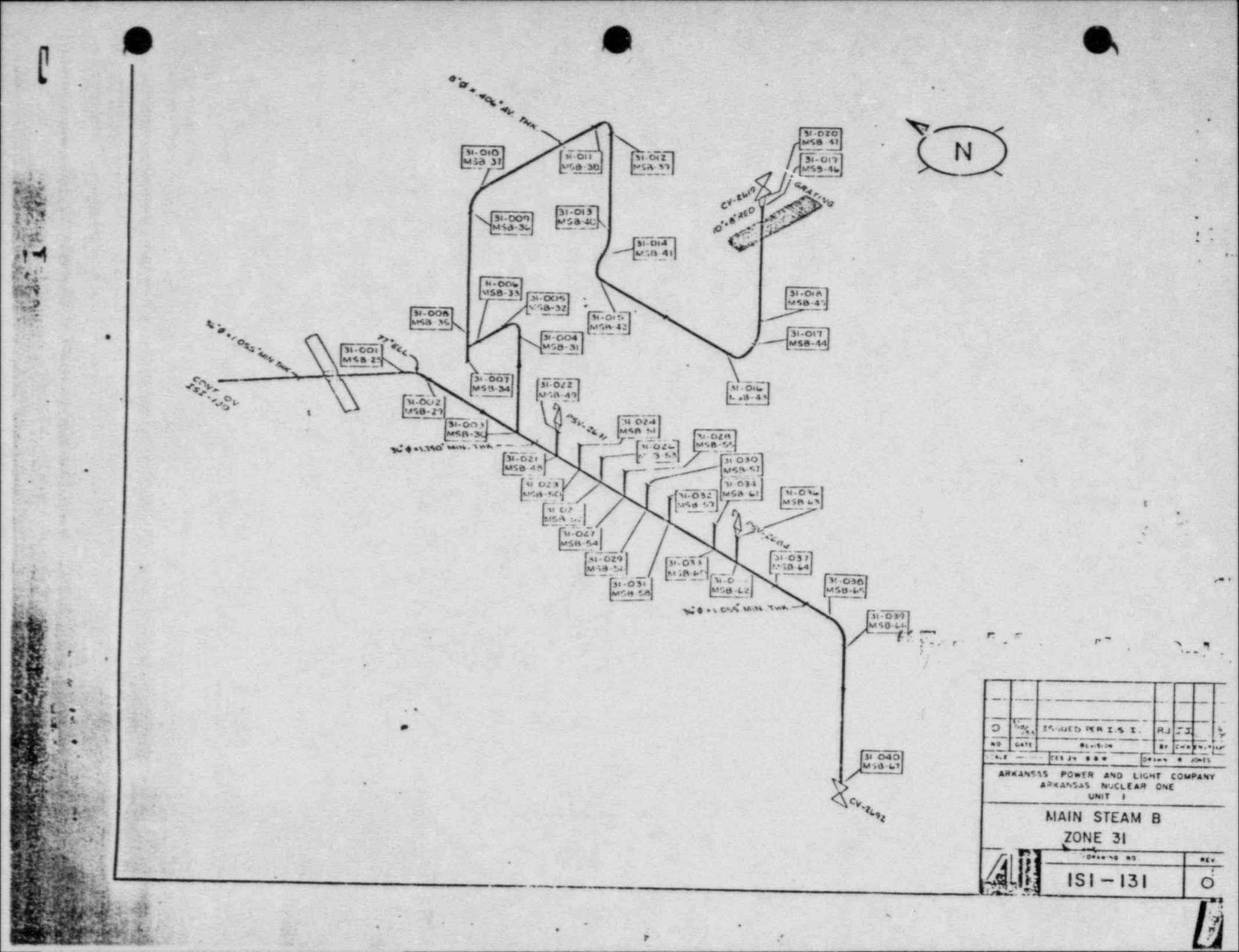
COMPONENT DESCRIPTION

MAIN STEAM B OUTSIDE CONTAINMENT

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-054	Pressure Retaining Components	C7.21 CH			X		100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B1-055	Pressure Retaining Components	C7.40 CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B1-056	Pressure Retaining Components	C7.41 CH			X		100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B1-041	10" Valve CV-2619 Bolts	C4.40.1 CD			X		100	UT		X	X	X	All Bolts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31-001 MSB-25
31-002 MSB-29
31-003 MSB-30
31-004 MSB-31
31-005 MSB-32
31-006 MSB-33
31-007 MSB-34
31-008 MSB-35
31-009 MSB-36
31-010 MSB-37
31-011 MSB-38
31-012 MSB-39
31-013 MSB-40
31-014 MSB-41
31-015 MSB-42
31-016 MSB-43
31-017 MSB-44
31-018 MSB-45
31-020 MSB-47
31-021 MSB-48
31-022 MSB-49
31-023 MSB-50
31-024 MSB-51
31-027 MSB-54
31-028 MSB-55
31-029 MSB-56
31-030 MSB-57
31-031 MSB-58
31-032 MSB-59
31-033 MSB-60
31-034 MSB-61
31-036 MSB-63
31-037 MSB-64
31-038 MSB-65
31-039 MSB-66
31-040 MSB-67
CV-2609
GRATING
PSV-2401
CV-2402
CV-2492
77° ELL
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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
MAIN STEAM B
ZONE 31
ISI-131
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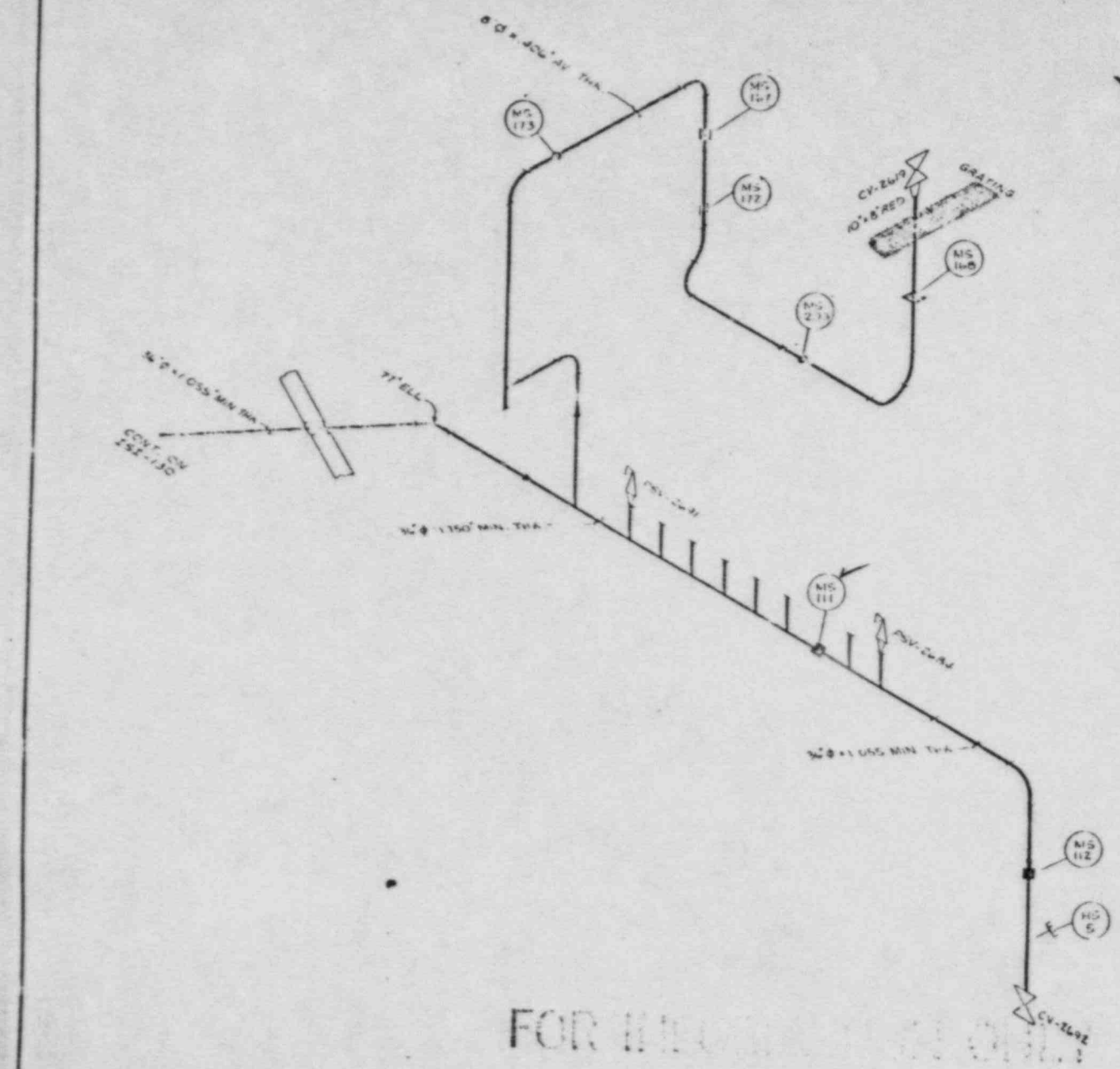

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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

MAIN STEAM B
ZONE 31

ISI-131H

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FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 32

COMPONENT DESCRIPTION

MAKE UP PUMP SUCTION

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B2-001	Valve To Ell Circ Seam	C5.11.1 CF					100	PT	NA				MU-2
B2-002	Ell To Tee Circ Seam	C5.11.2 CF					100	PT	NA				MU-1
B2-003	Tee To Reducer Circ Seam	C5.11.3 CF	X				100	PT	NA	X	X	X	MU-3
B2-004	Tee To Tee Circ Seam	C5.11.4 CF					100	PT	NA				MU-4
B2-005	Tee To Pipe Circ Seam	C5.11.5 CF					100	PT	NA				MU-5 And 1" Of LS 005A & B
B2-005AB	Tee Long Seams	C5.12.1 CF					100	PT	NA				MU-5L
B2-006	Pipe To Valve Circ Seam	C5.11.6 CF					100	PT	NA				MU-6 and 1" Of LS 005A & B
B2-007	Valve To Reducer Circ Seam	C5.11.7 CF					100	PT	NA				MU-7
B2-008	Tee To Pipe Circ Seam	C5.11.8 CF					100	PT	NA				MU-8
B2-009	Pipe To Valve Circ Seam	C5.11.9 CF					100	PT	NA				MU-9
B2-010	Valve To Pipe Circ Seam	C5.11.10 CF					100	PT	NA				MU-10
B2-011	Pipe To Valve Circ Seam	C5.11.11 CF					100	PT	NA				MU-11
B2-012	Valve To Pipe Circ Seam	C5.11.12 CF		X			100	PT	NA	X	X	X	MU-12
B2-013	Pipe To Ell Circ Seam	C5.11.13 CF					100	PT	NA				MU-13 And 1" Of LS 013A & B
B2-013AB	Ell Long Seams	C5.12.2 CF					100	PT	NA				MU-13L
B2-014	Ell To Pipe Circ Seam	C5.11.14 CF					100	PT	NA				MU-14 And 1" Of LS 013A & B
B2-015	Pipe To Ell Circ Seam	C5.11.15 CF					100	PT	NA				MU-15 And 1" Of LS 015A & B
B2-015AB	Ell Long Seams	C5.12.3 CF					100	PT	NA				MU-15L
B2-016	Ell To Pipe Circ Seam	C5.11.16 CF					100	PT	NA				MU-16 And 1" Of LS 015A & B
B2-017	Pipe To Ell Circ Seam	C5.11.17 CF					100	PT	NA				MU-17
B2-018	Ell To Pipe Circ Seam	C5.11.18 CF					100	PT	NA				MU-18
B2-019	Pipe To Tee Circ Seam	C5.11.19 CF					100	PT	NA				MU-19
B2-020	Tee To Reducer Circ Seam	C5.11.20 CF					100	PT	NA				MU-20 And 1" Of LS 020A & B
B2-020AB	Tee Long Seams	C5.12.4 CF					100	PT	NA				MU-20L
B2-020AB	Reducer Long Seams	C5.12.5 CF					100	PT	NA				MU-20L
B2-021	Tee To Pipe Circ Seam	C5.11.21 CF					100	PT	NA				MU-21 And 1" Of LS 020A & B
B2-022	Pipe To Ell Circ Seam	C5.11.22 CF					100	PT	NA				MU-22
B2-023	Ell To Tee Circ Seam	C5.11.23 CF					100	PT	NA				MU-23
B2-024	Tee To Pipe Circ Seam	C5.11.24 CF					100	PT	NA				MU-24
B2-025	Pipe To Valve Circ Seam	C5.11.25 CF					100	PT	NA				MU-25
B2-026	Valve To Red Ell Circ Seam	C5.11.26 CF					100	PT	NA				MU-26
B2-027	Tee To Valve Circ Seam	C5.11.27 CF			X		100	PT	NA	X	X	X	MU-27
B2-028	Valve To Pipe Circ Seam	C5.11.28 CF					100	PT	NA				MU-28

FORM ENG-011 | PROGRAM PLAN AND SCHEDULE | REVISED 12/01/83

ANO-UNIT-ONE | ZONE- 32 | PAGE-2 of 3

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS-2

MAKEUP PUMP SUCTION

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B2-029	Pipe To Valve Circ Seam	C5.11.29	CF					100	PT	NA				MU-29
B2-030	Valve To Pipe Circ Seam	C5.11.30	CF					100	PT	NA				MU-30
B2-031	Pipe To Ell Circ Seam	C5.11.31	CF					100	PT	NA				MU-31 And 1" Of LS 031A & B
B2-031AB	Ell Long Seams	C5.12.6	CF					100	PT	NA				MU-31L
B2-032	Ell To Pipe Circ Seam	C5.11.32	CF					100	PT	NA				MU-32 And 1" Of LS 031A & B
B2-033	Pipe To Ell Circ Seam	C5.11.33	CF					100	PT	NA				MU-33
B2-034	Ell To Pipe Circ Seam	C5.11.34	CF					100	PT	NA				MU-34
B2-035	Pipe To Ell Circ Seam	C5.11.35	CF				X	100	PT	NA	X	X	X	MU-35 And 1" Of LS 035A & B
B2-035AB	Ell Long Seams	C5.12.7	CF				X	100	PT	NA	X	X	X	MU-35L
B2-036	Ell To Pipe Circ Seam	C5.11.36	CF					100	PT	NA				MU-36 And 1" Of LS 035A & B
B2-037	Pipe To Ell Circ Seam	C5.11.37	CF					100	PT	NA				MU-37
B2-038	Ell To Pipe Circ Seam	C5.11.38	CF					100	PT	NA				MU-38
B2-039	Pipe To Ell Circ Seam	C5.11.39	CF					100	PT	NA				MU-39
B2-040	Tee To Pipe Circ Seam	C5.11.40	CF			X		100	PT	NA	X	X	X	MU-40
B2-041	Pipe To Valve Circ Seam	C5.11.41	CF					100	PT	NA				MU-41
B2-042	Valve To Reducer Circ Seam	C5.11.42	CF					100	PT	NA				MU-42 And 1" Of LS 042A & B
B2-042AB	Reducer Long Seams	C5.12.8	CF					100	PT	NA				MU-42L
B2-043	Tee To Reducer Circ Seam	C5.11.43	CF					100	PT	NA				MU-43 And 1" Of LS 042A & B
B2-044	Spring Hanger DH-89	C3.40.1	CC	X				100	PT	NA	X	X	X	SK#9-207
B2-045	Rigid Hanger DH-212	C3.40.2	CC	X				100	PT	NA	X	X	X	SK#9-216
B2-046	Rigid Hanger DH-201	C3.40.3	CC		X			100	PT	NA	X	X	X	SK#9-200
B2-047	Spring Hanger DH-202	C3.40.4	CC			X		100	PT	NA	X	X	X	SK#9-201
B2-048	Rigid Hanger DH-213	C3.40.5	CC			X		100	PT	NA	X	X	X	SK#9-217
B2-049	Rigid Hanger DH-205	C3.40.6	CC				X	100	PT	NA	X	X	X	SK#9-205
B2-050	Spring Hanger DH-206	C3.40.7	CC				X	100	PT	NA	X	X	X	SK#9-206
B2-051	Spring Hanger DH-89	F-4	F-C	X				100	VT-4	NA	X	X	X	SK#9-207
B2-052	Rigid Hanger DH-212	F-4	F-C	X				100	VT-4	NA	X	X	X	SK#9-216
B2-053	Guide DH-209	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#9-224
B2-054	Rigid Hanger DH-201	F-3	F-C		X			100	VT-3	NA	X	X	X	SK#9-200
B2-055	Spring Hanger DH-202	F-4	F-C			X		100	VT-4	NA	X	X	X	SK#9-201
B2-056	Rigid Hanger DH-213	F-3	F-C			X		100	VT-3	NA	X	X	X	SK#9-217
B2-057	Rigid Hanger DH-205	F-3	F-C				X	100	VT-3	NA	X	X	X	SK#9-205
B2-058	Restraint DH-210	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#9-214

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE- 32

PAGE-3 of 3

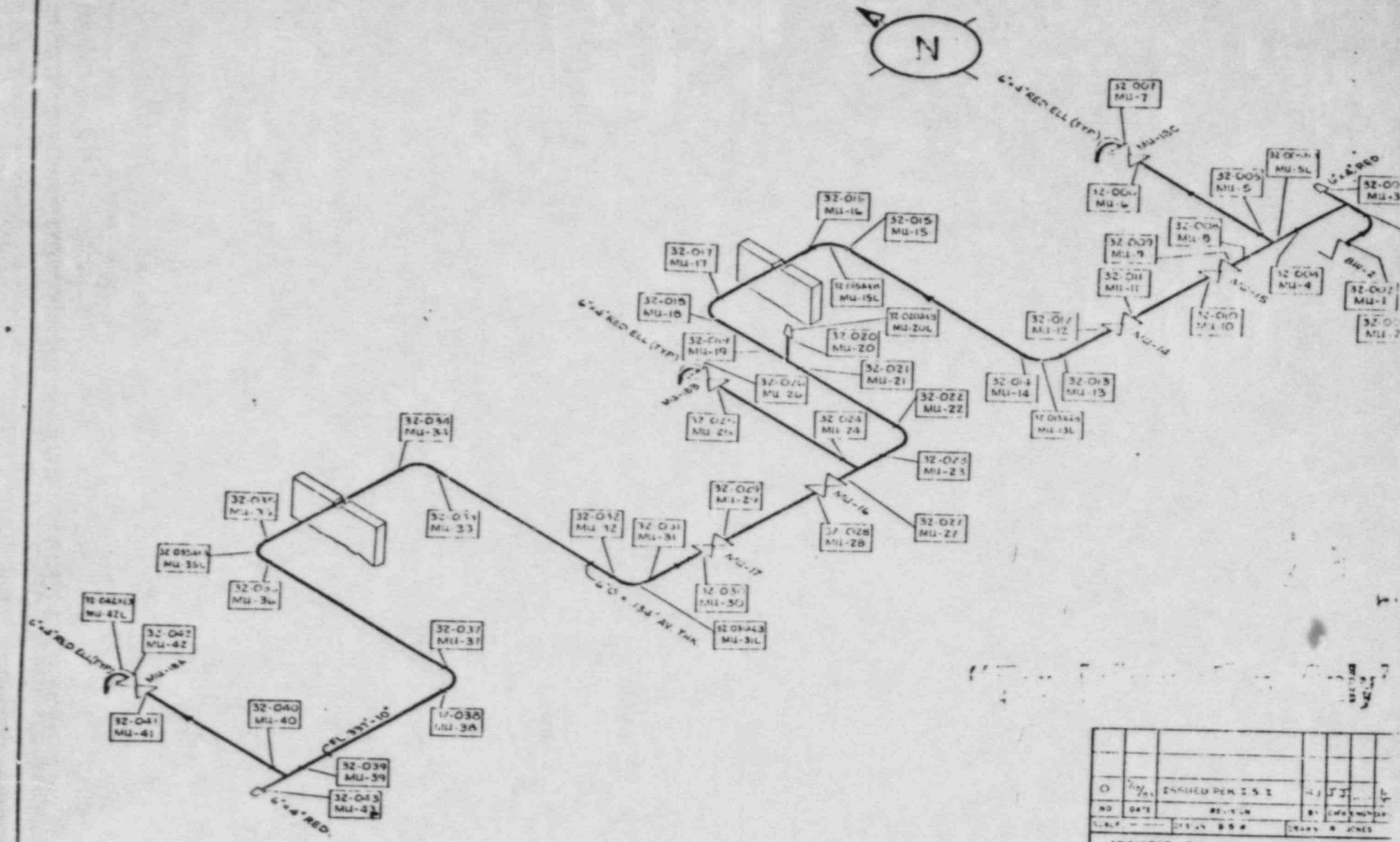
PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-2

MAKEUP PUMP SUCTION

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B2-059	Spring Hanger DH-206	F-4	F-C			X		100	VT-4	NA	X	X	X	SK#9-206
B2-060	Pressure Retaining Components	C7.20	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B2-061	Pressure Retaining Components	C7.21	CH			X		100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B2-062	Pressure Retaining Components	C7.40	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B2-063	Pressure Retaining Components	C7.41	CH			X		100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry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6"-4" RED ELL (TYP)
MU-10C
32-007 MU-7
32-006 MU-6
32-005 MU-5
32-004 MU-4
32-003 MU-3
32-002 MU-2
32-001 MU-1
32-009 MU-9
32-008 MU-8
32-011 MU-11
32-010 MU-10
32-012 MU-12
MU-14
MU-15
32-016 MU-16
32-015 MU-15
32-017 MU-17
32-018 MU-18
32-019 MU-19
32-020 MU-20
32-021 MU-21
32-022 MU-22
32-023 MU-23
32-024 MU-24
32-025 MU-25
32-026 MU-26
32-014 MU-14
32-013 MU-13
MU-16
32-027 MU-27
32-028 MU-28
32-029 MU-29
MU-17
32-030 MU-30
32-031 MU-31
32-032 MU-32
6"-3" x 1 1/2" RED TEE
32-033 MU-33
32-034 MU-34
32-035 MU-35
32-036 MU-36
32-037 MU-37
32-038 MU-38
32-039 MU-39
32-040 MU-40
32-041 MU-41
32-042 MU-42
MU-18A
6"-4" RED ELL (TYP)
EL. 337'-10"
6"-4" RED
ISSUED PER I S I
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
MAKEUP PUMP SUCTION
ZONE 32
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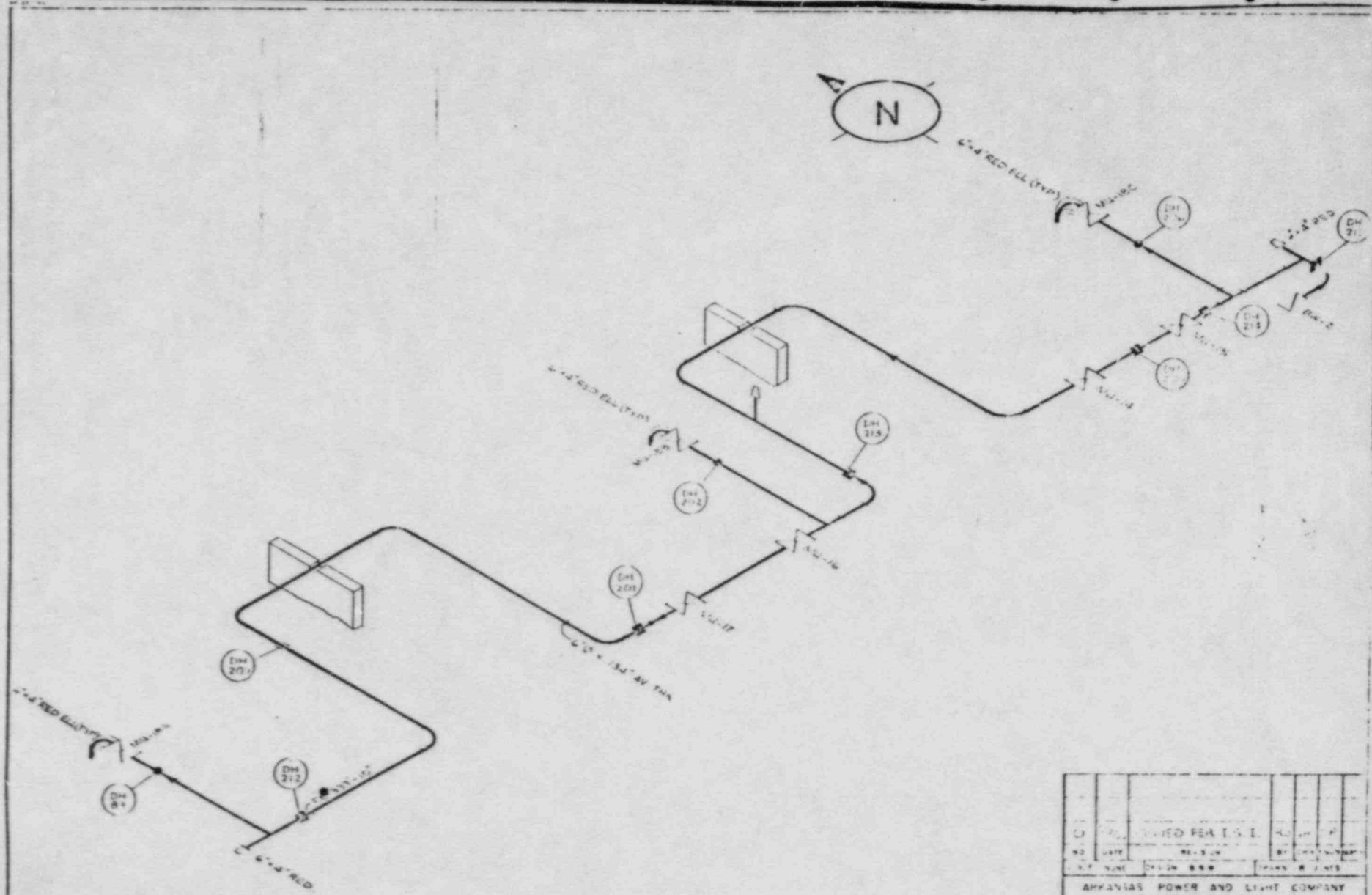

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

MAKEUP PUMP SUCTION
ZONE 32

ISI-132H.

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FORM ENG-011 | PROGRAM PLAN AND SCHEDULE | REVISED 12/01/83

ANO-UNIT-ONE | ZONE- 33 | PAGE-1 of 3

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS-2

DH REMOVAL TO PUMPS

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B3-001	Valve To Pipe Circ Seam	C5.11.1 CF	X				100	PT	NA	X	X	X	DHR-1
B3-002	Pipe To Ell Circ Seam	C5.11.2 CF					100	PT	NA				DHR-2
B3-003	Ell To Pipe Circ Seam	C5.11.3 CF					100	PT	NA				DHR-3
B3-004	Pipe To Ell Circ Seam	C5.11.4 CF					100	PT	NA				DHR-4
B3-005	Ell To Ell Circ Seam	C5.11.5 CF		X			100	PT	NA	X	X	X	DHR-5
B3-006	Ell To Pipe Circ Seam	C5.11.6 CF					100	PT	NA				DHR-6
B3-007	Pipe To Ell Circ Seam	C5.11.7 CF					100	PT	NA				DHR-7
B3-007AB	Ell Long Seams	C5.12.1 CF					100	PT	NA				DHR-7L
B3-008	Ell To Pipe Circ Seam	C5.11.8 CF					100	PT	NA				DHR-8
B3-009	Pipe To Ell Circ Seam	C5.11.9 CF					100	PT	NA				DHR-9
B3-010	Ell To Pipe Circ Seam	C5.11.10 CF					100	PT	NA				DHR-10
B3-011	Pipe To Ell Circ Seam	C5.11.11 CF					100	PT	NA				DHR-11 And 1" Of LS 011A & B
B3-011AB	Ell Long Seams	C5.12.2 CF					100	PT	NA				DHR-11L
B3-012	Ell To Pipe Circ Seam	C5.11.12 CF					100	PT	NA				DHR-12 And 1" Of LS 011A & B
B3-013	Pipe To Ell Circ Seam	C5.11.13 CF					100	PT	NA				DHR-13
B3-014	Ell To Pipe Circ Seam	C5.11.14 CF					100	PT	NA				DHR-14
B3-015	Pipe To Pene. Circ Seam	C5.11.15 CF					100	PT	NA				DHR-15
B3-016	Pipe To Valve Circ Seam	C5.11.16 CF					100	PT	NA				DHR-16
B3-017	Valve To Pipe Circ Seam	C5.11.17 CF					100	PT	NA				DHR-17
B3-018	Pipe To Ell Circ Seam	C5.11.18 CF					100	PT	NA				DHR-18
B3-019	Ell To Pipe Circ Seam	C5.11.19 CF					100	PT	NA				DHR-19
B3-020	Pipe To Tee Circ Seam	C5.11.20 CF					100	PT	NA				DHR-20 And 1" Of LS 020A & B
B3-020AB	Tee Long Seams	C5.12.3 CF					100	PT	NA				DHR-20L
B3-021	Tee To Pipe Circ Seam	C5.11.21 CF		X			100	PT	NA	X	X	X	DHR-21 And 1" Of LS 020A & B
B3-022	Pipe To Ell Circ Seam	C5.11.22 CF					100	PT	NA				DHR-22
B3-023	Ell To Pipe Circ Seam	C5.11.23 CF					100	PT	NA				DHR-23
B3-024	Pipe To Ell Circ Seam	C5.11.24 CF					100	PT	NA				DHR-24
B3-025	Ell To Pipe Circ Seam	C5.11.25 CF					100	PT	NA				DHR-25
B3-026	Pipe To Ell Circ Seam	C5.11.26 CF					100	PT	NA				DHR-26
B3-027	Ell To Pipe Circ Seam	C5.11.27 CF					100	PT	NA				DHR-27
B3-028	Pipe To Ell Circ Seam	C5.11.28 CF					100	PT	NA				DHR-28
B3-029	Ell To Valve Circ Seam	C5.11.29 CF					100	PT	NA				DHR-29
B3-030	Valve To Pipe Circ Seam	C5.11.30 CF					100	PT	NA				DHR-30

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-33

COMPONENT DESCRIPTION

DH REMOVAL TO PUMPS

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B3-031	Pipe To Ell Circ Seam	C5.11.31 CF					100	PT	NA				DHR-31 And 1" Of LS 031A & B
B3-031AB	Ell Long Seams	C5.12.4 CF					100	PT	NA				DHR-31L
B3-032	Ell To Tee Circ Seam	C5.11.32 CF					100	PT	NA				DHR-32 And 1" Of LS 031A & B
B3-033	Tee To Reducer Circ Seam	C5.11.33 CF					100	PT	NA				DHR-33
B3-034	Reducer To Valve Circ Seam	C5.11.34 CF					100	PT	NA				DHR-34
B3-035	Tee To P34A Nozzle Circ Seam	C5.11.35 CF					100	PT	NA				DHR-35
B3-036	Tee To Ell Circ Seam	C5.11.36 CF					100	PT	NA				DHR-36
B3-037	Ell To Pipe Circ Seam	C5.11.37 CF					100	PT	NA				DHR-37
B3-038	Pipe To Ell Circ Seam	C5.11.38 CF					100	PT	NA				DHR-38 And 1" Of LS 038A & B
B3-038AB	Ell Long Seams	C5.12.5 CF					100	PT	NA				DHR-38L
B3-039	Ell To Pipe Circ Seam	C5.11.39 CF					100	PT	NA				DHR-39 And 1" Of LS 038A & B
B3-040	Pipe To Ell Circ Seam	C5.11.40 CF					100	PT	NA				DHR-40
B3-041	Ell To Pipe Circ Seam	C5.11.41 CF					100	PT	NA				DHR-41
B3-042	Pipe To Ell Circ Seam	C5.11.42 CF					100	PT	NA				DHR-42 And 1" Of LS 042A & B
B3-042AB	Ell Long Seams	C5.12.6 CF					100	PT	NA				DHR-42L
B3-043	Ell To Pipe Circ Seam	C5.11.43 CF					100	PT	NA				DHR-43 And 1" Of LS 042A & B
B3-044	Pipe To Ell Circ Seam	C5.11.44 CF					100	PT	NA				DHR-44
B3-045	Ell To Valve Circ Seam	C5.11.45 CF			X		100	PT	NA	X	X	X	DHR-45
B3-046	Valve To Ell Circ Seam	C5.11.46 CF					100	PT	NA				DHR-46
B3-047	Ell To Tee Circ Seam	C5.11.47 CF					100	PT	NA				DHR-47
B3-048	Tee To Reducer Circ Seam	C5.11.48 CF					100	PT	NA				DHR-48 And 1" Of LS 048A & B
B3-048AB	Reducer Long Seams	C5.12.7 CF				X	100	PT	NA	X	X	X	DHR-48L
B3-049	Reducer To Valve Circ Seam	C5.11.49 CF				X	100	PT	NA	X	X	X	DHR-49 And 1" Of LS 048A & B
B3-050	Tee To P34B Nozzle Circ Seam	C5.11.50 CF			X		100	PT	NA	X	X	X	DHR-50
B3-051	Spring Hanger DH-251	C3.40.1 CC		X			100	PT MT	NA	X	X	X	SK#9-427
B3-052	Guide DH-121	C3.40.2 CC		X			100	PT MT	NA	X	X	X	SK#9-402
B3-053	Restraint DH-126	C3.40.3 CC			X		100	PT MT	NA	X	X	X	SK#9-404B
B3-054	Guide DH-122	C3.40.4 CC			X		100	PT MT	NA	X	X	X	SK#9-404
B3-055	Spring Hanger DH-124	C3.40.5 CC		X			100	PT MT	NA	X	X	X	SK#9-407
B3-056	Spring Hanger DH-154	C3.40.6 CC				X	100	PT MT	NA	X	X	X	SK#9-424
B3-057	Guide DH-127	C3.40.7 CC	X				100	PT MT	NA	X	X	X	SK#9-410
B3-058	Restraint DH-129	C3.40.8 CC	X				100	PT MT	NA	X	X	X	SK#9-412
B3-059	Spring Hanger DH-128	C3.40.9 CC	X				100	PT MT	NA	X	X	X	SK#9-411

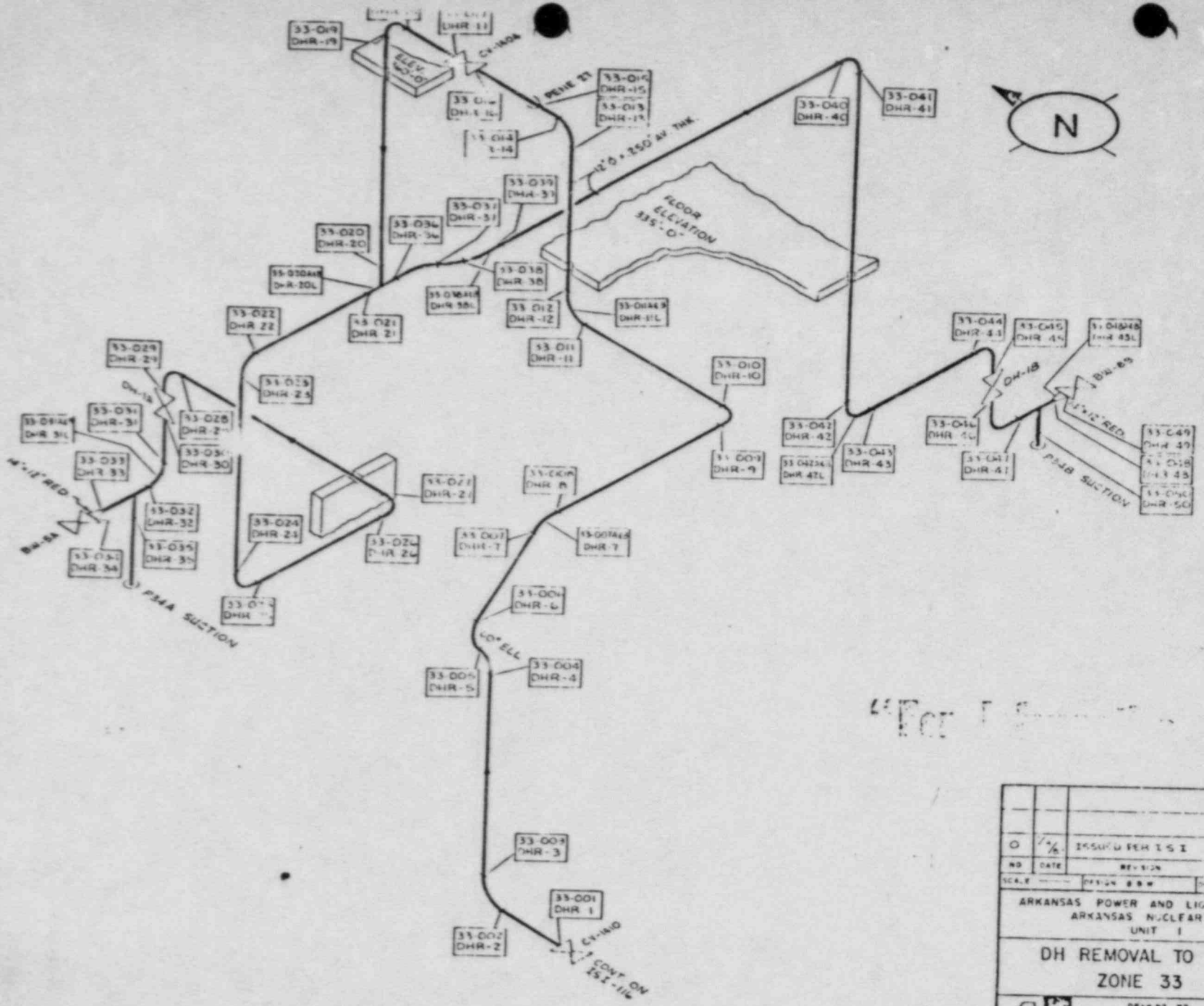
FORM ENG-011 | PROGRAM PLAN AND SCHEDULE | REVISED 12/01/83

ANO-UNIT-ONE | ZONE-33 | PAGE-3 of 3

PIPING PRESSURE BOUNDRY | COMPONENT DESCRIPTION | CLASS-2

DH REMOVAL TO PUMPS

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B3-060	Guide DH-130	C3.40.10	CC		X			100	PT MT	NA	X	X	X	SK#9-414
B3-061	Restraint DH-132	C3.40.11	CC	X				100	PT MT	NA	X	X	X	SK#9-426A
B3-062	Restraint DH-133	C3.40.12	CC	X				100	PT MT	NA	X	X	X	SK#9-426
B3-063	Spring Hanger DH-252	C3.40	CC	X				100	PT MT	NA	X	X	X	SK#9-428
B3-064	Spring Hanger DH-251	F-4	F-C		X			100	VT-4	NA	X	X	X	SK#9-427
B3-065	Spring Hanger DH-120	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#9-400
B3-066	Guide DH-121	F-4	F-C		X			100	VT-4	NA	X	X	X	SK#9-402
B3-067	Hydraulic Snubber HS-49	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#9-431
B3-068	Restraint DH-126	F-3	F-C			X		100	VT-3	NA	X	X	X	SK#9-404B
B3-069	Guide DH-122	F-3	F-C			X		100	VT-3	NA	X	X	X	SK#9-404
B3-070	Spring Hanger DH-124	F-4	F-C		X			100	VT-4	NA	X	X	X	SK#9-407
B3-071	Spring Hanger DH-152	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#9-421
B3-072	Spring Hanger DH-153	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#9-422
B3-073	Spring Hanger DH-154 .	F-4	F-C				X	100	VT-4	NA	X	X	X	SK#9-424
B3-074	Guide DH-127	F-3	F-C		X			100	VT-3	NA	X	X	X	SK#9-410
B3-075	Restraint DH-129	F-4	F-C		X			100	VT-4	NA	X	X	X	SK#9-412
B3-076	Spring Hanger DH-128	F-4	F-C		X			100	VT-4	NA	X	X	X	SK#9-411
B3-077	Guide DH-130	F-3	F-C		X			100	VT-3	NA	X	X	X	SK#9-414
B3-078	Restraint DH-132	F-3	F-C	X				100	VT-3	NA	X	X	X	SK#9-426A
B3-079	Restraint DH-133	F-3	F-C	X				100	VT-3	NA	X	X	X	SK#
B3-080	Spring Hanger DH-131	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#9-416
B3-081	Spring Hanger DH-252	F-4	F-C	X				100	VT-4	NA				SK#9-428
B3-082	Pressure Retaining Components	C7.20	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B3-083	Pressure Retaining Components	C7.21	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B3-084	Pressure Retaining Components	C7.40	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B3-085	Pressure Retaining Components	C7.41	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry



NO	DATE	REVISION	BY
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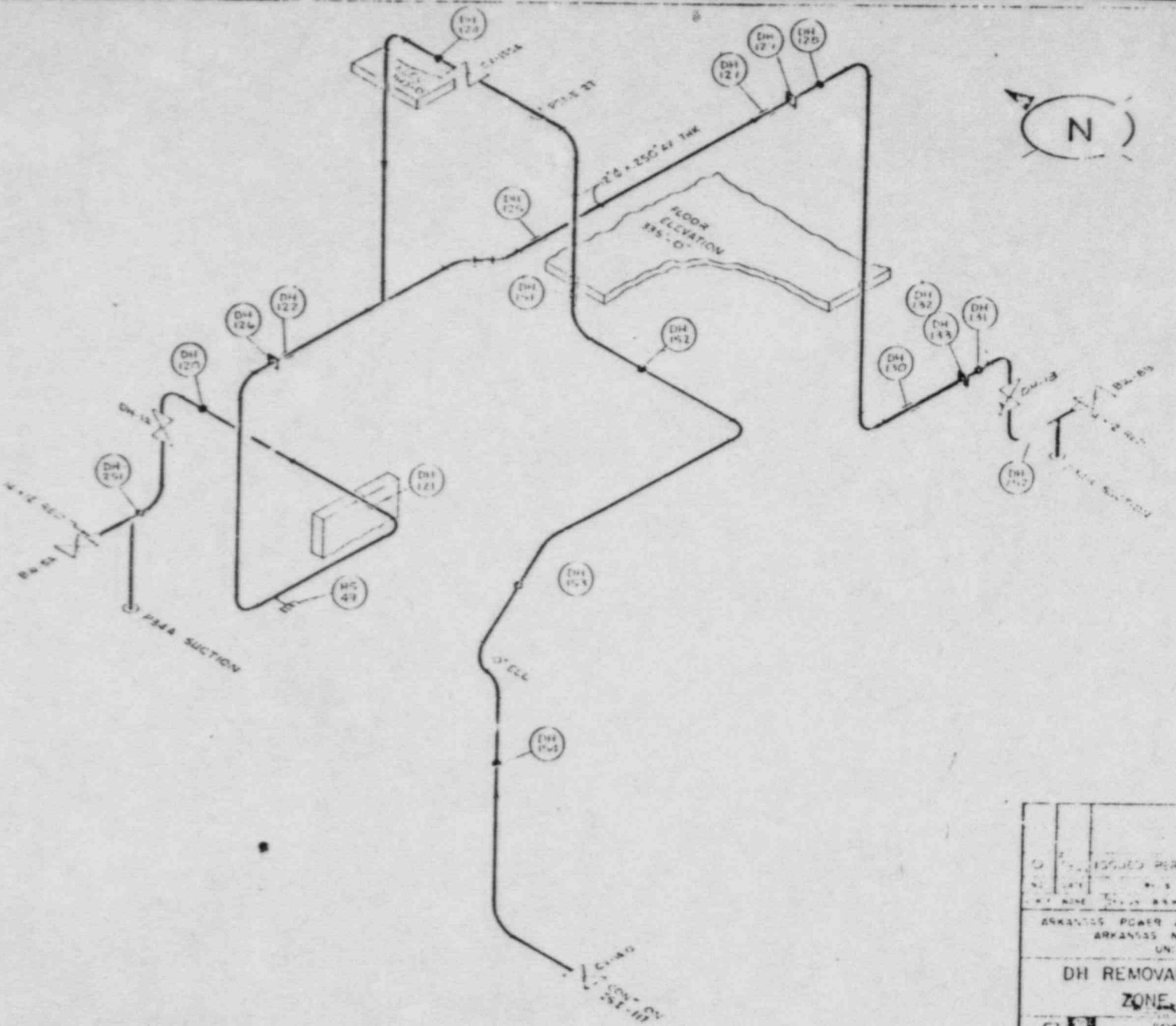
SCALE: NONE | DESIGN B.B.W. | DRAWN R. JONES

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

DH REMOVAL TO PUMPS ZONE 33

DRAWING NO. 1ST-133 | REV. 0



FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 34

COMPONENT DESCRIPTION

LPI PUMP A TO PENETRATION

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
34-001	P34A Disch To Valve Circ Seam	C5.11.1 CF					100	PT	NA				LPI-A1
34-002	Valve To Tee Circ Seam	C5.11.2 CF					100	PT	NA				LPI-A2
34-003	Tee To Valve Circ Seam	C5.11.3 CF					100	PT	NA				LPI-A3
34-004	Valve To Ell Circ Seam	C5.11.4 CF					100	PT	NA				LPI-A4
34-005	Ell To Pipe Circ Seam	C5.11.5 CF					100	PT	NA				LPI-A5
34-006	Pipe To Ell Circ Seam	C5.11.6 CF					100	PT	NA				LPI-A6 And 1" Of LS 006A & B
34-006AB	Ell Long Seams	C5.12.1 CF					100	PT	NA				LPI-A6L
34-007	Ell To Pipe Circ Seam	C5.11.7 CF					100	PT	NA				LPI-A7 And 1" Of LS 006A & B
34-008	Pipe To Ell Circ Seam	C5.11.8 CF					100	PT	NA				LPI-A8
34-009	Ell To Pipe Circ Seam	C5.11.9 CF					100	PT	NA				LPI-A9
34-010	Pipe To Ell Circ Seam	C5.11.10 CF					100	PT	NA				LPI-A10
34-011	Ell To Pipe Circ Seam	C5.11.11 CF					100	PT	NA				LPI-A11
34-012	Pipe To Ell Circ Seam	C5.11.12 CF					100	PT	NA				LPI-A12
34-013	Ell To Pipe Circ Seam	C5.11.13 CF					100	PT	NA				LPI-A13
34-014	Pipe To Red Circ Seam	C5.11.14 CF					100	PT	NA				LPI-A14 And 1" Of LS 014A & B
34-014AB	Reducer Long Seams	C5.12.2 CF					100	PT	NA				LPI-A14L
34-015	Red To E35A Noz Circ Seam	C5.11.15 CF					100	PT	NA				LPI-A15 And 1" Of LS 014A & B
34-016	E35A Noz To Red Circ Seam	C5.11.16 CF					100	PT	NA				LPI-A16
34-017	Red To Ell Circ Seam	C5.11.17 CF					100	PT	NA				LPI-A17
34-018	Ell To Ell Circ Seam	C5.11.18 CF					100	PT	NA				LPI-A18
34-019	Ell To Pipe Circ Seam	C5.11.19 CF		X			100	PT	NA	X	X	X	LPI-A19
34-020	Pipe To Tee Circ Seam	C5.11.20 CF					100	PT	NA				LPI-A20
34-021	E35A Noz To Red Circ Seam	C5.11.21 CF					100	PT	NA				LPI-A21
34-022	Red To Ell Circ Seam	C5.11.22 CF					100	PT	NA				LPI-A22
34-023	Ell To Pipe Circ Seam	C5.11.23 CF					100	PT	NA				LPI-A23
34-024	Pipe To Tee Circ Seam	C5.11.24 CF					100	PT	NA				LPI-A24 And 1" Of LS 024A & B
34-024AB	Tee Long Seams	C5.12.3 CF					100	PT	NA				LPI-A24L
34-025	Tee To Ell Circ Seam	C5.11.25 CF					100	PT	NA				LPI-A25 And 1" Of LS 024A & B
34-026	Ell To Pipe Circ Seam	C5.11.26 CF					100	PT	NA				LPI-A26
34-027	Pipe To Ell Circ Seam	C5.11.27 CF					100	PT	NA				LPI-A27
34-028	Ell To Pipe Circ Seam	C5.11.28 CF					100	PT	NA				LPI-A28
34-029	Pipe To Ell Circ Seam	C5.11.29 CF					100	PT	NA				LPI-A29
34-030	Ell To Valve Circ Seam	C5.11.30 CF					100	PT	NA				LPI-A30

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ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-34

COMPONENT DESCRIPTION

LPI PUMP A TO PENETRATION

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B4-031	Valve To Ell Circ Seam	C5.11.31 CF					100	PT	NA				LPI-A31
B4-032	Ell To Ell Circ Seam	C5.11.32 CF					100	PT	NA				LPI-A32
B4-033	Ell To Pipe Circ Seam	C5.11.33 CF					100	PT	NA				LPI-A33 And 1" Of LS 033A & B
B4-033AB	Ell Long Seams	C5.12.4 CF					100	PT	NA				LPI-A33L
B4-034	Pipe To Tee Circ Seam	C5.11.34 CF					100	PT	NA				LPI-A34 And 1" Of LS 033A & B
B4-035	Tee To Red Circ Seam	C5.11.35 CF					100	PT	NA				LPI-A35
B4-036	Tee To Pipe Circ Seam	C5.11.36 CF					100	PT	NA				LPI-A36
B4-037	Pipe To Ell Circ Seam	C5.11.37 CF					100	PT	NA				LPI-A37
B4-038	Ell To Pipe Circ Seam	C5.11.38 CF					100	PT	NA				LPI-A38
B4-039	Pipe To Ell Circ Seam	C5.11.39 CF					100	PT	NA				LPI-A39
B4-040	Ell To Pipe Circ Seam	C5.11.40 CF					100	PT	NA				LPI-A40
B4-041	Tee To Pipe Circ Seam	C5.11.41 CF					100	PT	NA				LPI-A41
B4-041AB	Reducing Tee Long Seams	C5.12.5 CF					100	PT	NA				LPI-A41L
B4-042	Pipe To Valve Circ Seam	C5.11.42 CF				X	100	PT	NA	X	X	X	LPI-A42
B4-043	Valve To Pipe Circ Seam	C5.11.43 CF					100	PT	NA				LPI-A43
B4-044	Pipe To Ell Circ Seam	C5.11.44 CF					100	PT	NA				LPI-A44
B4-045	Ell To Pipe Circ Seam	C5.11.45 CF					100	PT	NA				LPI-A45
B4-046	Pipe To Ell Circ Seam	C5.11.46 CF					100	PT	NA				LPI-A46
B4-047	Ell To Pipe Circ Seam	C5.11.47 CF					100	PT	NA				LPI-A47
B4-048	Pipe To Ell Circ Seam	C5.11.48 CF					100	PT	NA				LPI-A48
B4-049	Ell To Pipe Circ Seam	C5.11.49 CF					100	PT	NA				LPI-A49
B4-050	Pipe To Ell Circ Seam	C5.11.50 CF					100	PT	NA				LPI-A50
B4-051	Ell To Tee Circ Seam	C5.11.51 CF					100	PT	NA				LPI-A51
B4-052	Tee To Pipe Circ Seam	C5.11.52 CF					100	PT	NA				LPI-A52
B4-053	Pipe To Flange Circ SEam	C5.11.53 CF					100	PT	NA				LPI-A53
B4-054	Flange To Pipe Circ Seam	C5.11.54 CF					100	PT	NA				LPI-A54
B4-055	Pipe To Tee Circ Seam	C5.11.55 CF					100	PT	NA				LPI-A55
B4-056	Tee To Reducer Circ Seam	C5.11.56 CF					100	PT	NA				LPI-A56
B4-057	Reducer To Pipe Circ Seam	C5.11.57 CF					100	PT	NA				LPI-A57
B4-058	Pipe To Ell Circ Seam	C5.11.58 CF					100	PT	NA				LPI-A58
B4-058AB	Ell Long Seams	C5.12.6 CF					100	PT	NA				LPI-A58L
B4-059	Ell To Pipe Circ Seam	C5.11.59 CF					100	PT	NA				LPI-A59
B4-060	Pipe To Ell Circ Seam	C5.11.60 CF					100	PT	NA				LPI-A60

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-34

COMPONENT DESCRIPTION

LPI PUMP A TO PENETRATION

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B4-061	Ell To Pipe Circ Seam	C5.11.61	CF					100	PT	NA				LPI-A61
B4-062	Pipe To Ell Circ Seam	C5.11.62	CF					100	PT	NA				LPI-A62
B4-063	Ell To Ell Circ Seam	C5.11.63	CF					100	PT	NA				LPI-A63
B4-064	Ell To Pipe Circ Seam	C5.11.64	CF					100	PT	NA				LPI-A64
B4-065	Pipe To Valve Circ Seam	C5.11.65	CF					100	PT	NA				LPI-A65
B4-066	Valve To Pipe Circ Seam	C5.11.66	CF					100	PT	NA				LPI-A66
B4-067	Pipe To Tee Circ Seam	C5.11.67	CF					100	PT	NA				LPI-A67
B4-068	Valve To Ell Circ Seam	C5.11.68	CF					100	PT	NA				LPI-A68
B4-069	Ell To Pipe Circ Seam	C5.11.69	CF					100	PT	NA				LPI-A69
B4-070	Pipe To Tee Circ Seam	C5.11.70	CF					100	PT	NA				LPI-A70
B4-071	Tee To Pipe Circ Seam	C5.11.71	CF					100	PT	NA				LPI-A71
B4-072	Pipe To Tee Circ Seam	C5.11.72	CF					100	PT	NA				LPI-A72
B4-073	Tee To Valve Circ Seam	C5.11.73	CF					100	PT	NA				LPI-A73
B4-074	Tee To Pipe Circ Seam	C5.11.74	CF					100	PT	NA				LPI-A74
B4-075	Pipe To Ell Circ Seam	C5.11.75	CF	X				100	PT	NA	X	X	X	LPI-A75
B4-075AB	Ell Long Seams	C5.12.7	CF					100	PT	NA				LPI-A75L
B4-076	Ell To Pipe Circ Seam	C5.11.76	CF					100	PT	NA				LPI-A76
B4-077	Pipe To Ell Circ Seam	C5.11.77	CF					100	PT	NA				LPI-A77
B4-077AB	Ell Long Seams	C5.12.8	CF					100	PT	NA				LPI-A77L
B4-078	Ell To Ell Circ Seam	C5.11.78	CF					100	PT	NA				LPI-A78
B4-079	Ell To Valve Circ Seam	C5.11.79	CF					100	PT	NA				LPI-A79
B4-080	Valve To Reducer Circ Seam	C5.11.80	CF					100	PT	NA				LPI-A80
B4-081	Reducer To Pipe Circ Seam	C5.11.81	CF					100	PT	NA				LPI-A81
B4-082	Restraint DH-8	C3.40.1	CC		X			100	PT	NA	X	X	X	SK#9-115
B4-083	Rigid Hanger DH-10	C3.40.2	CC		X			100	PT	NA	X	X	X	SK#9-116
B4-084	Spring Hanger DH-262	C3.40.3	CC			X		100	PT	NA	X	X	X	SK#2-114
B4-085	Spring Hanger DH-15	C3.40.4	CC			X		100	PT	NA	X	X	X	SK#9-140
B4-086	Anchor DH-18	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#9-134
B4-087	Restraint DH-17	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#9-110
B4-088	Restraint DH-21	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#9-136A
B4-089	Spring Hanger DH-5	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#9-112
B4-090	Restraint DH-9	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#9-113
B4-091	Restraint DH-8	F-3	F-C		X			100	VT-3	NA	X	X	X	SK#9-115

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-34

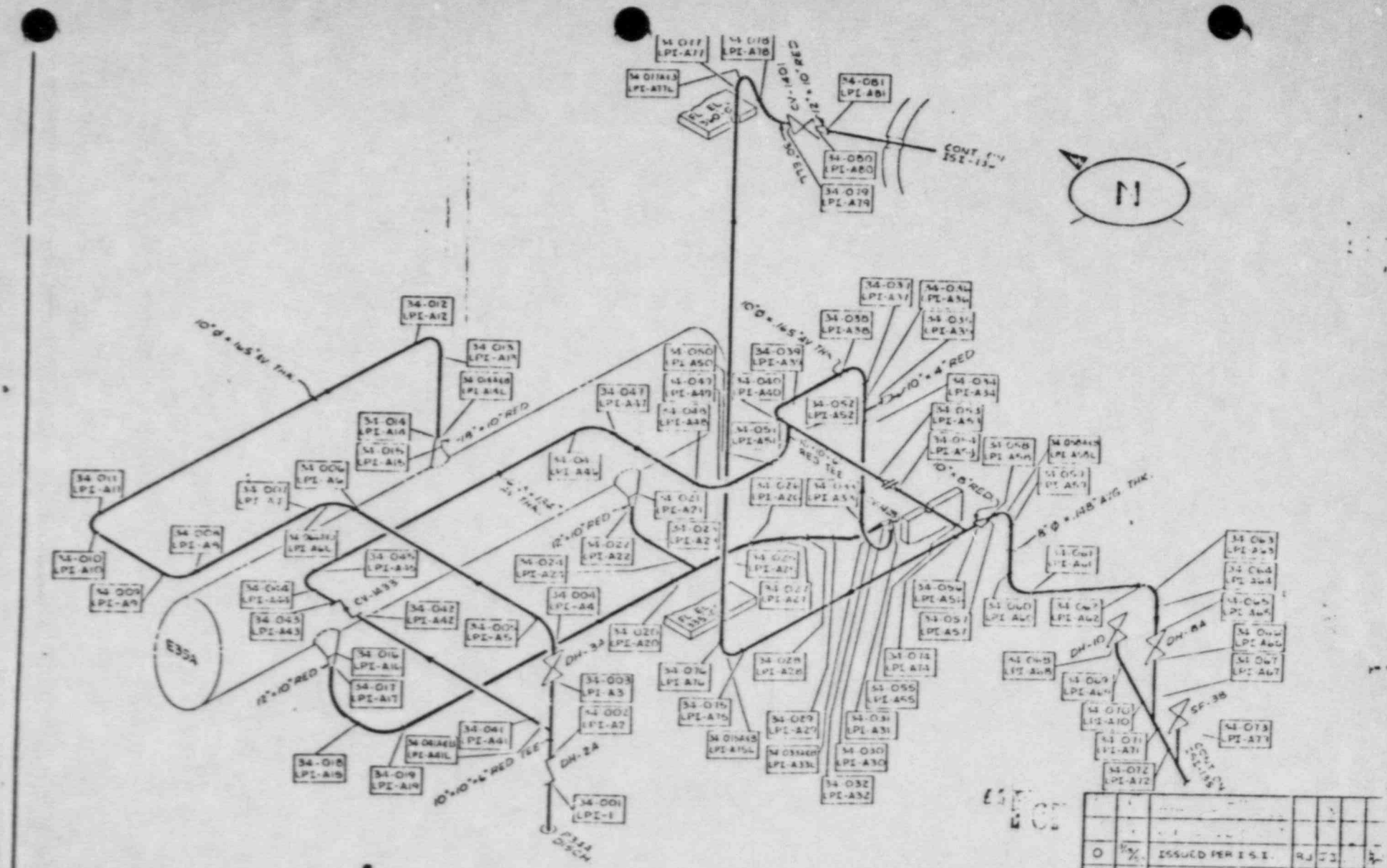
COMPONENT DESCRIPTION

LPI PUMP A TO PENETRATION

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B4-092	Rigid Hanger DH-10	F-3	F-C		X			100	VT-3	NA	X	X	X	SK#9-116
B4-093	Spring Hanger DH-262	F-4	F-C			X		100	VT-4	NA	X	X	X	SK#2-114
B4-094	Rigid Hanger DH-11	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#9-109
B4-095	Spring Hanger DH-15	F-3	F-C			X		100	VT-3	NA	X	X	X	SK#9-140
B4-096	Restraint DH-7	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#9-103
B4-097	Spring Hanger DH-14	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#13-102
B4-098	Spring Hanger DH-12	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#13-100
B4-099	Rigid Hanger DH-261	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#13-139
B4-100	Rigid Hanger DH-13	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#13-101
B4-101	Rigid Hanger DH-16	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#13-138
B4-102	Pressure Retaining Components	C7.20	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B4-103	Pressure Retaining Components	C7.21	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B4-104	Pressure Retaining Components	C7.40	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B4-105	Pressure Retaining Components	C7.41	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry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34-068 LPI-A68
34-069 LPI-A69
34-070 LPI-A70
34-071 LPI-A71
34-072 LPI-A72
34-073 PI-A73
34-074 LPI-A74
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34-076 LPI-A76
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34-078 LPI-A78
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34-081 LPI-A81
34-082 LPI-A82
34-083 LPI-A83
34-084 LPI-A84
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34-086 LPI-A86
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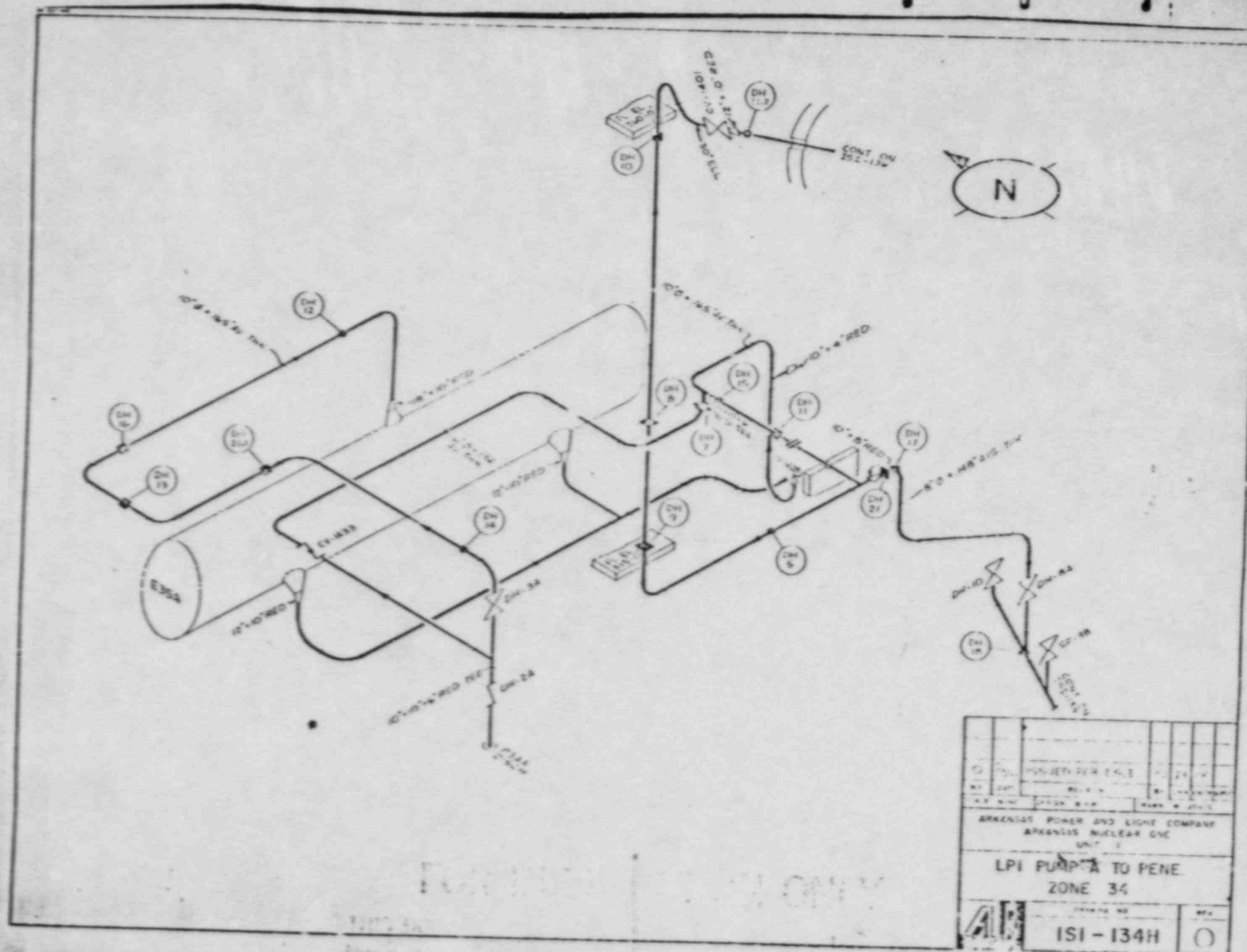
34-090 LPI-A90
34-091 LPI-A91
34-092 LPI-A92
34-093 LPI-A93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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 2
LPI PUMP A TO PENE
ZONE 34
ISI-134H
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FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-35

COMPONENT DESCRIPTION

LPI PUMP B TO PENETRATION

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
BS-001	P35B Nog To Valve Circ Seam	CS.11.1 CF					100	PT	NA				LPI-B1
BS-002	Valve To Pipe Circ Seam	CS.11.2 CF					100	PT	NA				LPI-B2
BS-003	Pipe To Tee Circ Seam	CS.11.3 CF					100	PT	NA				LPI-B3
BS-004	Tee To Valve Circ Seam	CS.11.4 CF	X				100	PT	NA	X	X	X	LPI-B4
BS-005	Valve To Pipe Circ Seam	CS.11.5 CF					100	PT	NA				LPI-B5
BS-006	Pipe To Ell Circ Seam	CS.11.6 CF					100	PT	NA				LPI-B6
BS-007	Ell To Pipe Circ Seam	CS.11.7 CF					100	PT	NA				LPI-B7
BS-008	Pipe To Ell Circ Seam	CS.11.8 CF					100	PT	NA				LPI-B8
BS-009	Ell To Pipe Circ Seam	CS.11.9 CF					100	PT	NA				LPI-B9
BS-010	Pipe To Ell Circ Seam	CS.11.10 CF					100	PT	NA				LPI-B10
BS-011	Ell To Pipe Circ Seam	CS.11.11 CF					100	PT	NA				LPI-B11
BS-012	Pipe To Ell Circ Seam	CS.11.12 CF					100	PT	NA				LPI-B12
BS-013	Ell To Pipe Circ Seam	CS.11.13 CF					100	PT	NA				LPI-B13
BS-014	Pipe To Ell Circ Seam	CS.11.14 CF					100	PT	NA				LPI-B14
BS-014AB	Ell Long Seams	CS.12.1 CF					100	PT	NA				LPI-B14L
BS-015	Ell To Pipe Circ Seam	CS.11.15 CF					100	PT	NA				LPI-B15
BS-016	Pipe To Red Circ Seam	CS.11.16 CF					100	PT	NA				LPI-B16
BS-017	Red To E35B Nog Circ Seam	CS.11.17 CF					100	PT	NA				LPI-B17
BS-018	E35B Nog To Red Circ Seam	CS.11.18 CF					100	PT	NA				LPI-B18
BS-018AB	Reducer Long Seams	CS.12.2 CF					100	PT	NA				LPI-B18L
BS-019	Red To Ell Circ Seam	CS.11.19 CF					100	PT	NA				LPI-B19
BS-020	Ell To Pipe Circ Seam	CS.11.20 CF					100	PT	NA				LPI-B20
BS-021	Pipe To Ell Circ Seam	CS.11.21 CF					100	PT	NA				LPI-B21
BS-021AB	Ell Long Seams	CS.12.3 CF					100	PT	NA				LPI-B21L
BS-022	Ell To Pipe Circ Seam	CS.11.22 CF					100	PT	NA				LPI-B22
BS-023	Pipe To Tee Circ Seam	CS.11.23 CF					100	PT	NA				LPI-B23
BS-024	E35B Nog To Red Circ Seam	CS.11.24 CF					100	PT	NA				LPI-B24
BS-025	Red To Ell Circ Seam	CS.11.25 CF					100	PT	NA				LPI-B25
BS-026	Ell To Pipe Circ Seam	CS.11.26 CF					100	PT	NA				LPI-B26
BS-027	Pipe To Ell Circ Seam	CS.11.27 CF					100	PT	NA				LPI-B27
BS-027AB	Tee Long Seams	CS.12.4 CF					100	PT	NA				LPI-B27L
BS-028	Tee To Ell Circ Seam	CS.11.28 CF					100	PT	NA				LPI-B28
BS-029	Ell To Pipe Circ Seam	CS.11.29 CF					100	PT	NA				LPI-B29

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 35

COMPONENT DESCRIPTION

LPI PUMP B TO PENETRATION

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B5-030	Pipe To Ell Circ Seam	C5.11.30 CF					100	PT	NA				LPI-B30
B5-031	Ell To Pipe Circ Seam	C5.11.31 CF					100	PT	NA				LPI-B31
B5-032	Pipe To Ell Circ Seam	C5.11.32 CF					100	PT	NA				LPI-B32
B5-033	Ell To Pipe Circ Seam	C5.11.33 CF					100	PT	NA				LPI-B33
B5-034	Pipe To Valve Circ Seam	C5.11.34 CF					100	PT	NA				LPI-B34
B5-035	Valve To Ell Circ Seam	C5.11.35 CF		X			100	PT	NA	X	X	X	LPI-B35
B5-036	Ell To Pipe Circ Seam	C5.11.36 CF	X				100	PT	NA	X	X	X	LPI-B36
B5-037	Pipe To Ell Circ Seam	C5.11.37 CF					100	PT	NA				LPI-B37
B5-038	Ell To Pipe Circ Seam	C5.11.38 CF					100	PT	NA				LPI-B38
B5-039	Pipe To Ell Circ Seam	C5.11.39 CF					100	PT	NA				LPI-B39
B5-040	Ell To Pipe Circ Seam	C5.11.40 CF					100	PT	NA				LPI-B40
B5-041	Pipe To Tee Circ Seam	C5.11.41 CF					100	PT	NA				LPI-B41
B5-042	Tee To Pipe Circ Seam	C5.11.42 CF					100	PT	NA				LPI-B42
B5-043	Pipe To Ell Circ Seam	C5.11.43 CF					100	PT	NA				LPI-B43
B5-044	Ell To Pipe Circ Seam	C5.11.44 CF					100	PT	NA				LPI-B44
B5-045	Pipe To Ell Circ Seam	C5.11.45 CF					100	PT	NA				LPI-B45
B5-045AB	Ell Long Seams	C5.12.5 CF					100	PT	NA				LPI-B45L
B5-046	Ell To Pipe Circ Seam	C5.11.46 CF					100	PT	NA				LPI-B46
B5-047	Pipe To Valve Circ Seam	C5.11.47 CF					100	PT	NA				LPI-B47
B5-048	Valve To Pipe Circ Seam	C5.11.48 CF					100	PT	NA				LPI-B48
B5-049	Pipe To Ell Circ Seam	C5.11.49 CF					100	PT	NA				LPI-B49
B5-050	Ell To Pipe Circ Seam	C5.11.50 CF					100	PT	NA				LPI-B50
B5-051	Pipe To Ell Circ Seam	C5.11.51 CF					100	PT	NA				LPI-B51
B5-052	Ell To Pipe Circ Seam	C5.11.52 CF					100	PT	NA				LPI-B52
B5-053	Pipe To Tee Circ Seam	C5.11.53 CF					100	PT	NA				LPI-B53
B5-054	Tee To Pipe Circ Seam	C5.11.54 CF					100	PT	NA				LPI-B54
B5-055	Pipe To Ell Circ Seam	C5.11.55 CF					100	PT	NA				LPI-B55
B5-055AB	Ell Long Seams	C5.12.6 CF					100	PT	NA				LPI-B55L
B5-056	Ell To Pipe Circ Seam	C5.11.56 CF					100	PT	NA				LPI-B56
B5-057	Pipe To F.O. Circ Seam	C5.11.57 CF					100	PT	NA				LPI-B57
B5-058	F.O. To Pipe Circ Seam	C5.11.58 CF					100	PT	NA				LPI-B58
B5-058AB	Ell Long Seams	C5.12.7 CF					100	PT	NA				LPI-B58L
B5-059	Pipe To Ell Circ Seam	C5.11.59 CF					100	PT	NA				LPI-B59

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-35

COMPONENT DESCRIPTION

LPI PUMP B TO PENETRATION

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B5-060	Ell To Pipe Circ Seam	C5.11.60 CF					100	PT	NA				LPI-B60
B5-061	Pipe To Ell Circ Seam	C5.11.61 CF					100	PT	NA				LPI-B61
B5-062	Ell To Pipe Circ Seam	C5.11.62 CF					100	PT	NA				LPI-B62
B5-063	Pipe To Ell Circ Seam	C5.11.63 CF					100	PT	NA				LPI-B63
B5-063AB	Tee Long Seams	C5.12.8 CF			X		100	PT	NA	X	X	X	LPI-B63L
B5-064	Ell To Tee Circ Seam	C5.11.64 CF			X		100	PT	NA	X	X	X	LPI-B64
B5-065	Tee To Pipe Circ Seam	C5.11.65 CF					100	PT	NA				LPI-B65
B5-066	Pipe To Ell Circ Seam	C5.11.66 CF					100	PT	NA				LPI-B66
B5-067	Ell To Pipe Circ Seam	C5.11.67 CF					100	PT	NA				LPI-B67
B5-068	Pipe To Ell Circ Seam	C5.11.68 CF					100	PT	NA				LPI-B68
B5-068AB	Ell Long Seams	C5.12.9 CF					100	PT	NA				LPI-B68L
B5-069	Ell To Pipe Circ Seam	C5.11.69 CF					100	PT	NA				LPI-B69
B5-070	Pipe To Ell Circ Seam	C5.11.70 CF					100	PT	NA				LPI-B70
B5-071	Ell To Pipe Circ Seam	C5.11.71 CF					100	PT	NA				LPI-B71
B5-072	Pipe To Valve Circ Seam	C5.11 72 CF					100	PT	NA				LPI-B72
B5-073	Valve To Pipe Circ Seam	C5.11.73 CF					100	PT	NA				LPI-B73
B5-074	Pipe To Tee Circ Seam	C5.11.74 CF					100	PT	NA				LPI-B74
B5-074AB	Ell Long Seams	C5.12.10 CF				X	100	PT	NA	X	X	X	LPI-B74L
B5-075	Valve To Pipe Circ Seam	C5.11.75 CF					100	PT	NA				LPI-B75
B5-076	Pipe To Ell Circ Seam	C5.11.76 CF				X	100	PT	NA	X	X	X	LPI-B76
B5-077	Ell To Red Circ Seam	C5.11.77 CF					100	PT	NA				LPI-B77
B5-078	Red To Tee Circ Seam	C5.11.78 CF					100	PT	NA				LPI-B78
B5-079	Tee To Pipe Circ Seam	C5.11.79 CF					100	PT	NA				LPI-B79
B5-080	Pipe To Pipe Circ Seam	C5.11.80 CF					100	PT	NA				LPI-B80
B5-080AB	Ell Long Seams	C5.12.11 CF					100	PT	NA				LPI-B80L
B5-081	Tee To Pipe Circ Seam	C5.11.81 CF					100	PT	NA				LPI-B81
B5-082	Pipe To Ell Circ Seam	C5.11.82 CF					100	PT	NA				LPI-B82
B5-083	Ell To Pipe Circ Seam	C5.11.83 CF					100	PT	NA				LPI-B83
B5-084	Pipe To Ell Circ Seam	C5.11.84 CF					100	PT	NA				LPI-B84
B5-085	Ell To Pipe Circ Seam	C5.11.85 CF					100	PT	NA				LPI-B85
B5-086	Pipe To Ell Circ Seam	C5.11.86 CF					100	PT	NA				LPI-B86
B5-087	Ell To Valve Circ Seam	C5.11.87 CF					100	PT	NA				LPI-B87
B5-088	Valve To Red Circ Seam	C5.11.88 CF					100	PT	NA				LPI-B88

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-35

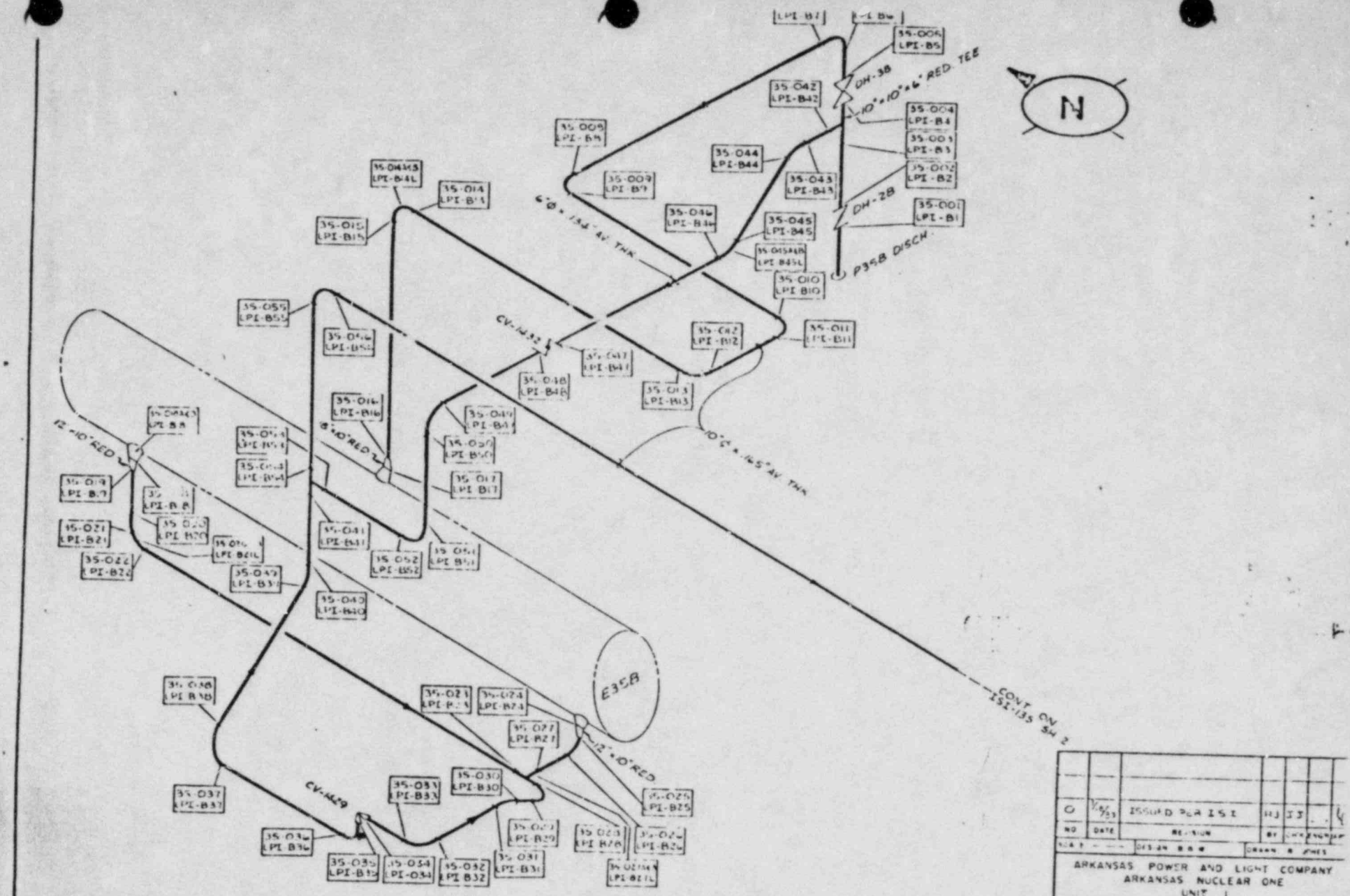
COMPONENT DESCRIPTION

LPI PUMP B TO PENETRATION

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B5-089	Red To Pipe Circ Seam	C5.11.89	CF					100	PT	NA				LPI-B89
B5-090	Restraint DH-67	B3.40.1	CC			X		100	PT	NA	X	X	X	SK#9-124
B5-091	Spring Hanger DH-281	B3.40.2	CC		X			100	PT	NA	X	X	X	SK#9-137
B5-092	Spring Hanger DH-64	B3.40.3	CC			X		100	PT	NA	X	X	X	SK#9-121
B5-093	Guide DH-63	B3.40.4	CC		X			100	PT	NA	X	X	X	SK#9-129
B5-094	Spring Hanger DH-62	B3.40.5	CC	X				100	PT	NA	X	X	X	SK#9-130
B5-095	Spring Hanger DH-271	B3.40.6	CC	X				100	PT	NA	X	X	X	SK#2-113
B5-096	Spring Hanger DH-272	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#9-138
B5-097	Restraint DH-67	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#9-124
B5-098	Spring Hanger DH-66	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#9-123
B5-099	Spring Hanger DH-68	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#13-133
B5-100	Rigid Hanger DH-69	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#13-134
B5-101	Spring Hanger DH-70	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#13-136
B5-102	Spring Hanger DH-71	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#13-137
B5-103	Spring Hanger DH-281	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#9-137
B5-104	Spring Hanger DH-19	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#9-117
B5-105	Spring Hanger DH-20	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#9-119
B5-106	Spring Hanger DH-273	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#9-136
B5-107	Spring Hanger DH-64	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#9-121
B5-108	Guide DH-63	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#9-129
B5-109	Spring Hanger DH-62	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#9-130
B5-110	Restraint DH-61	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#9-131
B5-111	Spring Hanger DH-271	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#2-113
B5-112	Pressure Retaining Components	C7.20.1	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B5-113	Pressure Retaining Components	C7.21.1	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B5-114	Pressure Retaining Components	C7.30.1	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B5-115	Pressure Retaining Components	C7.31.1	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B5-116	Pressure Retaining Components	C7.40.1	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B5-117	Pressure Retaining Components	C7.41.1	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry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DH-38
10"x10"x6" RED. TEE
DH-28
P39B DISCH.
6"Ø x .134" AV. THK
8"x10" RED.
12"x10" RED.
10"Ø x .165" AV. THK
CV-1432
CV-1429
E35B
CONT. ON ISI-135 SH 2
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
LPI PUMP 8 TO PENE.
ZONE 35
ISI-135
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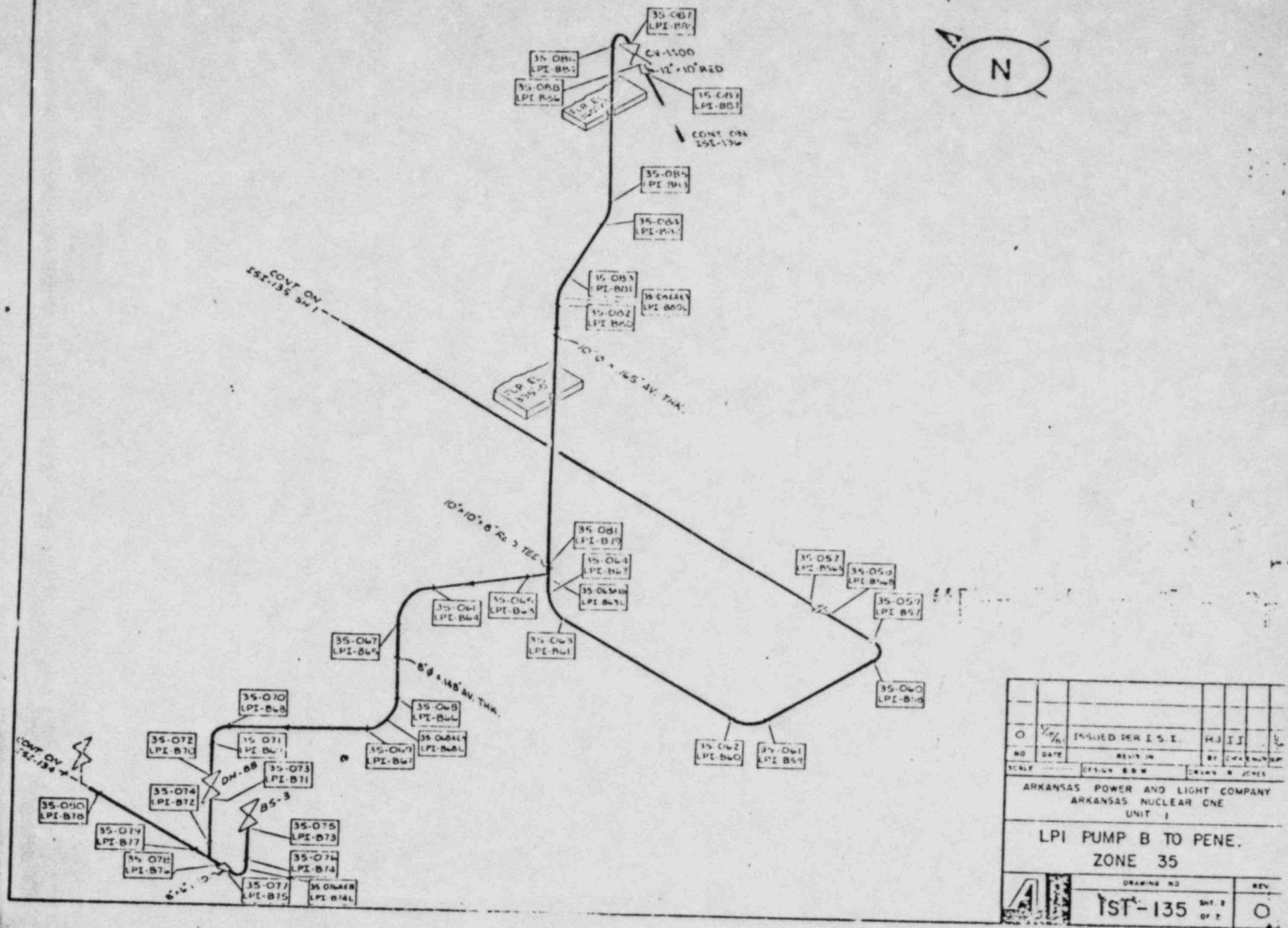
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CONT ON ISI-135
CONT ON ISI-135
10"Ø x .165" AV. THK.
8"Ø x .148" AV. THK.
10"x10"x8" RED. TEE
DN-68
BS-3
35-080 LPI-B81
35-081 LPI-B79
35-082 LPI-B80
35-083 LPI-B82
35-084 LPI-B83
35-085 LPI-B84
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35-087 LPI-B86
35-057 LPI-B57
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35-074 LPI-B74
35-075 LPI-B75
35-076 LPI-B76
35-077 LPI-B77
35-078 LPI-B78
35-079 LPI-B79
ISSUED PER I.S.I.
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
LPI PUMP B TO PENE.
ZONE 35
DRAWING NO
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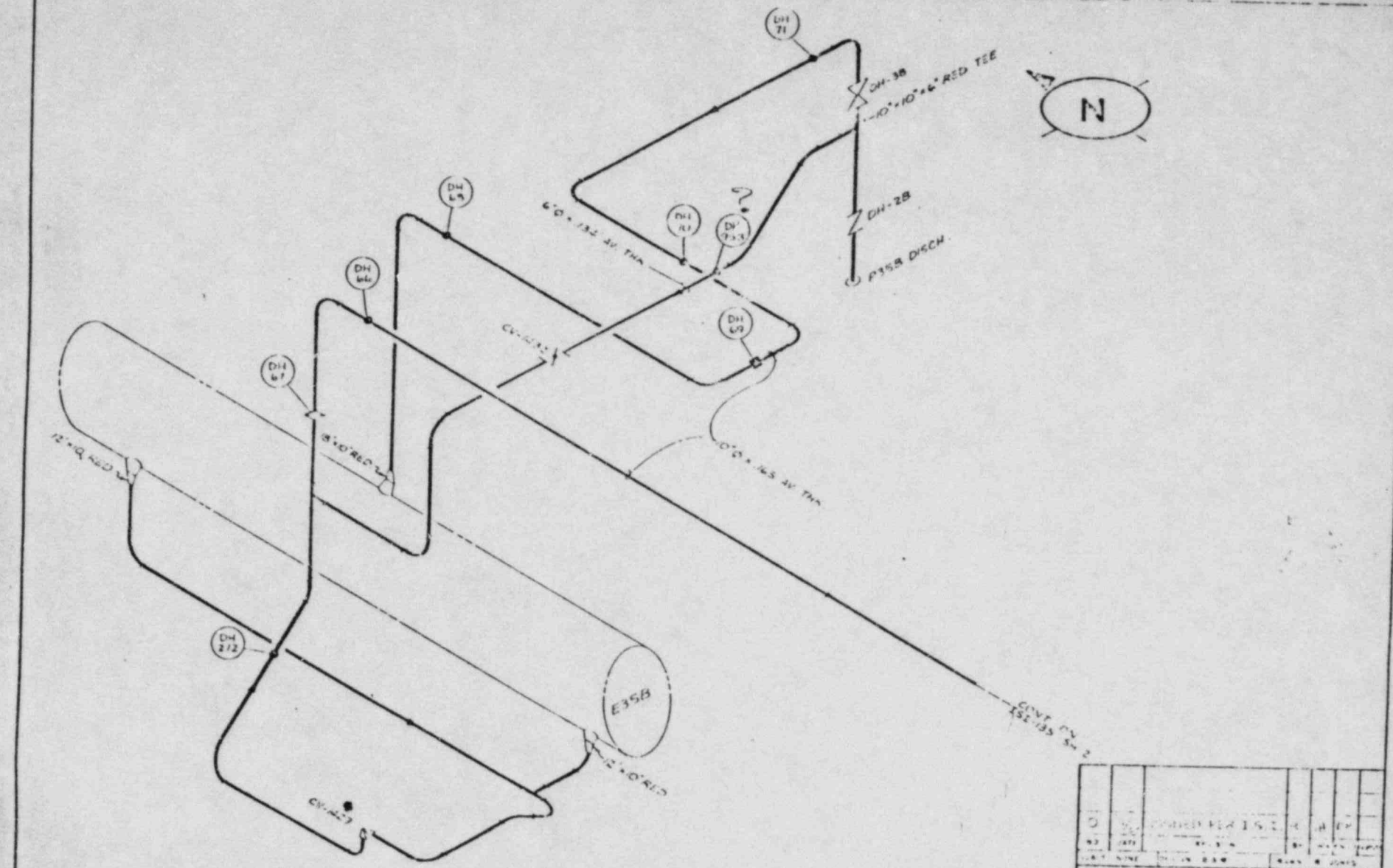

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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

LPI PUMP B TO PENE
ZONE 35

ISI - 135H

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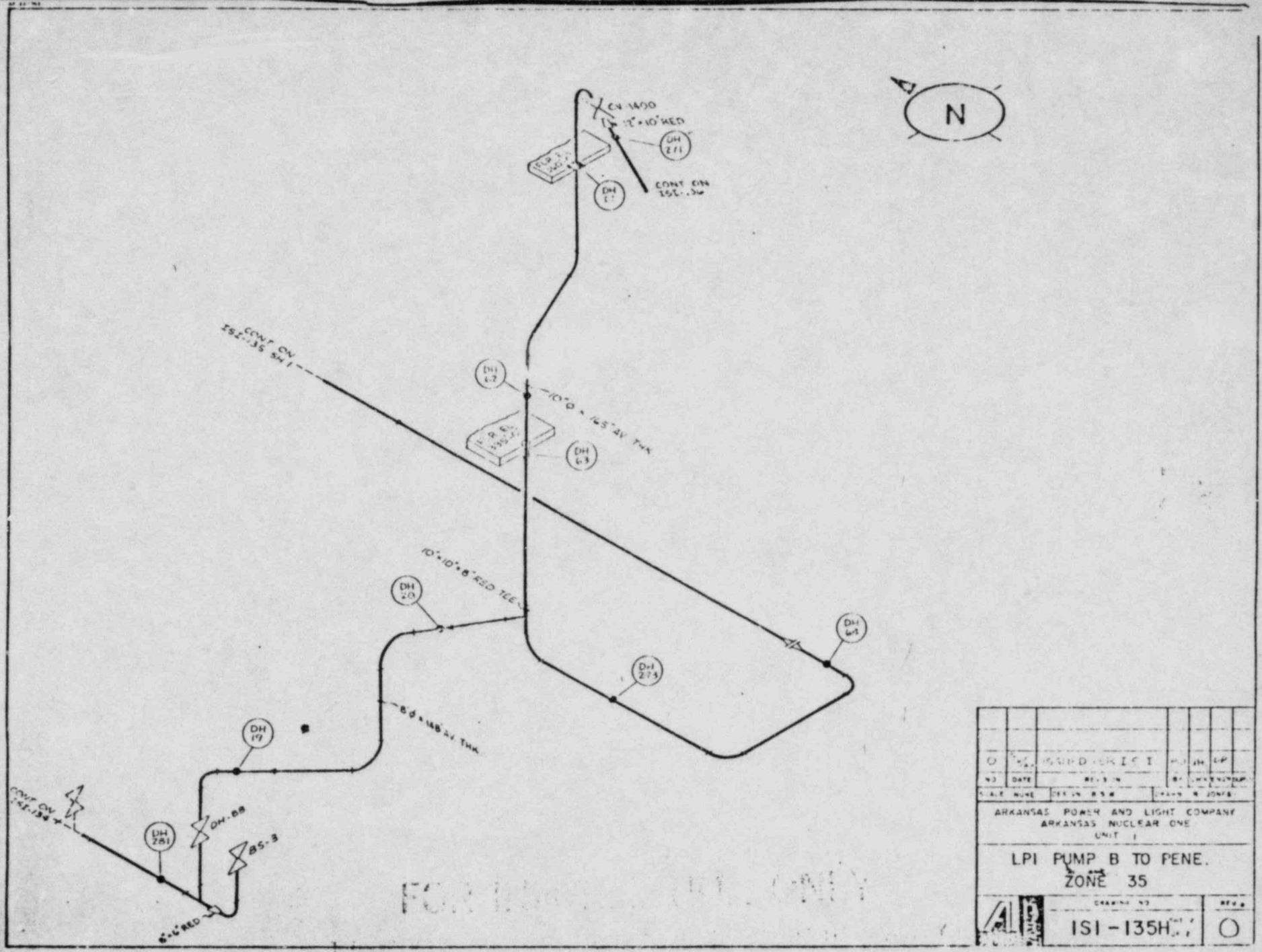
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CONT ON ISZ-35
DH 271
DH 17
CONT ON ISZ-35
DH 62
10"Ø x 145"Av THK
DH 63
CONT ON ISZ-35 SH 1
10"x10"x8" RED TEE
DH 20
DH 64
DH 273
8Ø x 148"Av THK
DH 19
CONT ON ISZ-134
DH 281
DH-88
BS-3
6"x6" RED
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
LPI PUMP B TO PENE.
ZONE 35
ISI-135H
0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-36

COMPONENT DESCRIPTION

LPI PENETRATIONS TO CORE FLOOD

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B6-001	Pene. To Pipe Circ Seam	C5.21.1 CF	X				100	PT	NA	X	X	X	LPI-A82
B6-001	Pene. To Pipe Circ Seam	C5.21.1 CF	X				100	UT	40846	X	X	X	LPI-A82
B6-002	Pipe To Ell Circ Seam	C5.21.2 CF					100	PT	NA				LPI-A83
B6-002	Pipe To Ell Circ Seam	C5.21.2 CF					100	UT	40846				LPI-A83
B6-003	Ell To Pipe Circ Seam	C5.21.3 CF					100	PT	NA				LPI-A84
B6-003	Ell To Pipe Circ Seam	C5.21.3 CF					100	UT	40846				LPI-A84
B6-004	Pipe To Ell Circ Seam	C5.21.4 CF					100	PT	NA				LPI-A85
B6-004	Pipe To Ell Circ Seam	C5.21.4 CF					100	UT	40846				LPI-A85
B6-005	Ell To Pipe Circ Seam	C5.21.5 CF					100	PT	NA				LPI-A86
B6-005	Ell To Pipe Circ Seam	C5.21.5 CF					100	UT	40846				LPI-A86
B6-006	Pipe To Ell Circ Seam	C5.21.6 CF					100	PT	NA				LPI-A87
B6-006	Pipe To Ell Circ Seam	C5.21.6 CF					100	UT	40846				LPI-A87
B6-006AB	Ell Long Seams	C5.22.1 CF					100	PT	NA				LPI-A87L
B6-006AB	Ell Long Seams	C5.22.1 CF					100	UT	40846				LPI-A87L
B6-007	Ell To Pipe Circ Seam	C5.21.7 CF					100	PT	NA				LPI-A88
B6-007	Ell To Pipe Circ Seam	C5.21.7 CF					100	UT	40846				LPI-A88
B6-008	Pipe To Ell Circ Seam	C5.21.8 CF					100	PT	NA				LPI-A89
B6-008	Pipe To Ell Circ Seam	C5.21.8 CF					100	UT	40846				LPI-A89
B6-009	Ell To Pipe Circ Seam	C5.21.9 CF					100	PT	NA				LPI-A90
B6-009	Ell To Pipe Circ Seam	C5.21.9 CF					100	UT	40846				LPI-A90
B6-010	Pipe To Tee Circ Seam	C5.21.10 CF	X				100	PT	NA	X	X	X	LPI-A91
B6-010	Pipe To Tee Circ Seam	C5.21.10 CF	X				100	UT	40846	X	X	X	LPI-A91
B6-011	Tee To Ell Circ Seam	C5.21.11 CF		X			100	PT	NA	X	X	X	LPI-A92
B6-011	Tee To Ell Circ Seam	C5.21.11 CF		X			100	UT	40846	X	X	X	LPI-A92
B6-012	Ell To Pipe Circ Seam	C5.21.12 CF					100	PT	NA				LPI-A93
B6-012	Ell To Pipe Circ Seam	C5.21.12 CF					100	UT	40846				LPI-A93
B6-013	Pipe To Ell Circ Seam	C5.21.13 CF					100	PT	NA				LPI-A94
B6-013	Pipe To Ell Circ Seam	C5.21.13 CF					100	UT	40846				LPI-A94
B6-014	Ell To Pipe Circ Seam	C5.21.14 CF					100	PT	NA				LPI-A95
B6-014	Ell To Pipe Circ Seam	C5.21.14 CF					100	UT	40846				LPI-A95
B6-015	Pipe To Ell Circ Seam	C5.21.15 CF					100	PT	NA				LPI-A96
B6-015	Pipe To Ell Circ Seam	C5.21.15 CF					100	UT	40846				LPI-A96
B6-016	Ell To Pipe Circ Seam	C5.21.16 CF					100	PT	NA				LPI-A97

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-36

COMPONENT DESCRIPTION

LPI PENETRATIONS TO CORE FLOOD

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B6-016	Ell To Pipe Circ Seam	C5.21.16 CF					100	UT	40846				LPI-A97
B6-017	Pipe To Ell Circ Seam	C5.21.17 CF					100	PT	NA				LPI-A98
B6-017	Pipe To Ell Circ Seam	C5.21.17 CF					100	UT	40846				LPI-A98
B6-017AB	Ell Long Seams	C5.22.2 CF					100	PT	NA				LPI-A98L
B6-017AB	Ell Long Seams	C5.22.2 CF					100	UT	40846				LPI-A98L
B6-018	Ell To Pipe Circ Seam	C5.21.18 CF	X				100	PT	NA	X	X	X	LPI-A99
B6-018	Ell To Pipe Circ Seam	C5.21.18 CF	X				100	UT	40846	X	X	X	LPI-A99
B6-019	Pipe To Ell Circ Seam	C5.21.19 CF					100	PT	NA				LPI-A100
B6-019	Pipe To Ell Circ Seam	C5.21.19 CF					100	UT	40846				LPI-A100
B6-020	Ell To Pipe Circ Seam	C5.21.20 CF					100	PT	NA				LPI-A101
B6-020	Ell To Pipe Circ Seam	C5.21.20 CF					100	UT	40843				LPI-A101
B6-021	Pipe To Ell Circ Seam	C5.21.21 CF					100	PT	NA				LPI-A102
B6-021	Pipe To Ell Circ Seam	C5.21.21 CF					100	UT	40843				LPI-A102
B6-022	Ell To Pipe Circ Seam	C5.21.22 CF		X			100	PT	NA	X	X	X	LPI-A103
B6-022	Ell To Pipe Circ Seam	C5.21.22 CF		X			100	UT	40843	X	X	X	LPI-A103
B6-023	Pipe To Ell Circ Seam	C5.21.23 CF					100	PT	NA				LPI-A104
B6-023	Pipe To Ell Circ Seam	C5.21.23 CF					100	UT	40843				LPI-A104
B6-024	Ell To Pipe Circ Seam	C5.21.24 CF					100	PT	NA				LPI-A105
B6-024	Ell To Pipe Circ Seam	C5.21.24 CF					100	UT	40843				LPI-A105
B6-025	Pipe To Ell Circ Seam	C5.21.25 CF					100	PT	NA				LPI-A106
B6-025	Pipe To Ell Circ Seam	C5.21.25 CF					100	UT	40843				LPI-A106
B6-026	Ell To Pipe Circ Seam	C5.21.26 CF					100	PT	NA				LPI-A107
B6-026	Ell To Pipe Circ Seam	C5.21.26 CF					100	UT	40843				LPI-A107
B6-027	Pipe To Ell Circ Seam	C5.21.27 CF					100	PT	NA				LPI-A108
B6-027	Pipe To Ell Circ Seam	C5.21.27 CF					100	UT	40843				LPI-A108
B6-027AB	Ell Long Seams	C5.22.3 CF					100	PT	NA				LPI-A108L
B6-027AB	Ell Long Seams	C5.22.3 CF					100	UT	40843				LPI-A108L
B6-028	Ell To Valve Circ Seam	C5.21.28 CF		X			100	PT	NA	X	X	X	LPI-A109
B6-028	Ell To Valve Circ Seam	C5.21.28 CF		X			100	UT	40843	X	X	X	LPI-A109
B6-029	Tee To Ell Circ Seam	C5.21.29 CF					100	PT	NA				LPI-A110
B6-029	Tee To Ell Circ Seam	C5.21.29 CF					100	UT	40843				LPI-A110
B6-030	Ell To Ell Circ Seam	C5.21.30 CF					100	PT	NA				LPI-A111
B6-030	Ell To Ell Circ Seam	C5.21.30 CF					100	UT	40843				LPI-A111

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ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 36

COMPONENT DESCRIPTION

LPI PENETRATIONS TO CORE FLOOD

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B6-031	Ell To Pipe Circ Seam	C5.21.31 CF					100	PT	NA				LPI-A112
B6-031	Ell To Pipe Circ Seam	C5.21.31 CF					100	UT	40843				LPI-A112
B6-032	Pipe To Ell Circ Seam	C5.21.32 CF					100	PT	NA				LPI-A113
B6-032	Pipe To Ell Circ Seam	C5.21.32 CF					100	UT	40843				LPI-A113
B6-033	Ell To Pipe Circ Seam	C5.21.33 CF					100	PT	NA				LPI-A114
B6-033	Ell To Pipe Circ Seam	C5.21.33 CF					100	UT	40843				LPI-A114
B6-033AB	Ell Long Seams	C5.22.4 CF					100	PT	NA				LPI-A114L
B6-033AB	Ell Long Seams	C5.22.4 CF					100	UT	40843				LPI-A114L
B6-034	Pipe To Valve Circ Seam	C5.21.34 CF					100	PT	NA				LPI-A115
B6-034	Pipe To Valve Circ Seam	C5.21.34 CF					100	UT	40843				LPI-A115
B6-035	Pene. 36 To Pipe Circ Seam	C5.21.35 CF					100	PT	NA				LPI-B88
B6-035	Pene. 36 To Pipe Circ Seam	C5.21.35 CF					100	UT	40843				LPI-B88
B6-036	Pipe To Ell Circ Seam	C5.21.36 CF					100	PT	NA				LPI-B89
B6-036	Pipe To Ell Circ Seam	C5.21.36 CF					100	UT	40846				LPI-B89
B6-037	Ell To Pipe Circ Seam	C5.21.37 CF				X	100	PT	NA	X	X	X	LPI-B90
B6-037	Ell To Pipe Circ Seam	C5.21.37 CF				X	100	UT	40846	X	X	X	LPI-B90
B6-038	Pipe To Ell Circ Seam	C5.21.38 CF					100	PT	NA				LPI-B91
B6-038	Pipe To Ell Circ Seam	C5.21.38 CF					100	UT	40846				LPI-B91
B6-039	Ell To Pipe Circ Seam	C5.21.39 CF					100	PT	NA				LPI-B92
B6-039	Ell To Pipe Circ Seam	C5.21.39 CF					100	UT	40846				LPI-B92
B6-040	Pipe To Ell Circ Seam	C5.21.40 CF					100	PT	NA				LPI-B93
B6-040	Pipe To Ell Circ Seam	C5.21.40 CF					100	UT	40846				LPI-B93
B6-041	Ell To Pipe Circ Seam	C5.21.41 CF					100	PT	NA				LPI-B94
B6-041	Ell To Pipe Circ Seam	C5.21.41 CF					100	UT	40846				LPI-B94
B6-042	Pipe To Ell Circ Seam	C5.21.42 CF					100	PT	NA				LPI-B95
B6-042	Pipe To Ell Circ Seam	C5.21.42 CF					100	UT	40846				LPI-B95
B6-043	Tee To Pipe Circ Seam	C5.21.43 CF					100	PT	NA				LPI-B96
B6-043	Tee To Pipe Circ Seam	C5.21.43 CF					100	UT	40846				LPI-B96
B6-044	Pipe To Ell Circ Seam	C5.21.44 CF					100	PT	NA				LPI-B97
B6-044	Pipe To Ell Circ Seam	C5.21.44 CF					100	UT	40846				LPI-B97
B6-045	Ell To Pipe Circ Seam	C5.21.45 CF					100	PT	NA				LPI-B98
B6-045	Ell To Pipe Circ Seam	C5.21.45 CF					100	UT	40846				LPI-B98
B6-046	Pipe To Ell Circ Seam	C5.21.46 CF					100	PT	NA				LPI-B99

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ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 36

COMPONENT DESCRIPTION

LPI PENETRATIONS TO CORE FLOOD

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B6-046	Pipe To Ell Circ Seam	C5.21.46	CF					100	UT	40846				LPI-B99
B6-047	Ell To Pipe Circ Seam	C5.21.47	CF					100	PT	NA				LPI-B100
B6-047	Ell To Pipe Circ Seam	C5.21.47	CF					100	UT	40846				LPI-B100
B6-048	Pipe To Ell Circ Seam	C5.21.48	CF					100	PT	NA				LPI-B101
B6-048	Pipe To Ell Circ Seam	C5.21.48	CF					100	UT	40846				LPI-B101
B6-049	Ell To Pipe Circ Seam	C5.21.49	CF					100	PT	NA				LPI-B102
B6-049	Ell To Pipe Circ Seam	C5.21.49	CF					100	UT	40846				LPI-B102
B6-050	Pipe To Ell Circ Seam	C5.21.50	CF					100	PT	NA				LPI-B103
B6-050	Pipe To Ell Circ Seam	C5.21.50	CF					100	UT	40846				LPI-B103
B6-051	Ell To Pipe Circ Seam	C5.21.51	CF					100	PT	NA				LPI-B104
B6-051	Ell To Pipe Circ Seam	C5.21.51	CF					100	UT	40846				LPI-B104
B6-051AB	Ell Long Seams	C5.22.5	CF					100	PT	NA				LPI-B104L
B6-051AB	Ell Long Seams	C5.22.5	CF					100	UT	40846				LPI-B104L
B6-052	Pipe To Ell Circ Seam	C5.21.52	CF					100	PT	NA				LPI-B105
B6-052	Pipe To Ell Circ Seam	C5.21.52	CF					100	UT	40846				LPI-B105
B6-053	Ell To Pipe Circ Seam	C5.21.53	CF					100	PT	NA				LPI-B106
B6-053	Ell To Pipe Circ Seam	C5.21.53	CF					100	UT	40846				LPI-B106
B6-054	Pipe To Ell Circ Seam	C5.21.54	CF					100	PT	NA				LPI-B107
B6-054	Pipe To Ell Circ Seam	C5.21.54	CF					100	UT	40846				LPI-B107
B6-055	Ell To Pipe Circ Seam	C5.21.55	CF					100	PT	NA				LPI-B108
B6-055	Ell To Pipe Circ Seam	C5.21.55	CF					100	UT	40846				LPI-B108
B6-056	Pipe To Valve Circ Seam	C5.21.56	CF					100	PT	NA				LPI-B109
B6-056	Pipe To Valve Circ Seam	C5.21.56	CF					100	UT	40846				LPI-B109
B6-057	Tee To Pipe Circ Seam	C5.21.57	CF			X		100	PT	NA	X	X	X	LPI-B110
B6-057	Tee To Pipe Circ Seam	C5.21.57	CF			X		100	UT	40846	X	X	X	LPI-B110
B6-058	Pipe To Ell Circ Seam	C5.21.58	CF					100	PT	NA				LPI-B111
B6-058	Pipe To Ell Circ Seam	C5.21.58	CF					100	UT	40846				LPI-B111
B6-059	Ell To Pipe Circ Seam	C5.21.59	CF					100	PT	NA				LPI-B112
B6-059	Ell To Pipe Circ Seam	C5.21.59	CF					100	UT	40846				LPI-B112
B6-060	Pipe To Valve Circ Seam	C5.21.60	CF					100	PT	NA				LPI-B113
B6-060	Pipe To Valve Circ Seam	C5.21.60	CF					100	UT	40846				LPI-B113
B6-061	Restraint DH-182	C3.40.1	CC	X				100	VT-4	NA	NA	NA	NA	SK#2-100
B6-062	Spring Hanger DH-183	C3.40.2	CC	X				100	VT-4	NA	NA	NA	NA	SK#2-102

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ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-36

COMPONENT DESCRIPTION

LPI PENETRATIONS TO CORE FLOOD

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B6-063	Spring Hanger DH-184	C3.40.3 CC	X				100	VT-4	NA	NA	NA	NA	SK#2-103
B6-064	Guide CCB-1-H9	C3.40.4 CC		X			100	PT MT	NA	X	X	X	SK#2-123
B6-065	Guide CCB-1-H8	C3.40.5 CC		X			100	PT MT	NA	X	X	X	SK#2-122
B6-066	Anchor CCB-1-H7	C3.40.6 CC				X	100	PT MT	NA	X	X	X	SK#2-121
B6-067	Guide CCB-1-H6	C3.40.7 CC				X	100	PT MT	NA	X	X	X	SK#2-120
B6-068	Guide CCB-1-H4	C3.40.8 CC				X	100	PT MT	NA	X	X	X	SK#2-118
B6-069	Guide CCB-1-H3	C3.40.9 CC				X	100	PT MT	NA	X	X	X	SK#2-117
B6-070	Anchor CCB-1-H1	C3.40.10 CC		X			100	PT MT	NA	X	X	X	SK#2-125
B6-071	Guide CCB-1-H17	C3.40.11 CC			X		100	PT MT	NA	X	X	X	SK#2-131
B6-072	Guide CCB-1-H13	C3.40.12 CC		X			100	PT MT	NA	X	X	X	SK#2-127
B6-073	Anchor CCB-1-H11	C3.40.13 CC		X			100	PT MT	NA	X	X	X	SK#2-125
B6-074	Restraint DH-182	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#2-100
B6-075	Spring Hanger DH-183	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#2-102
B6-076	Spring Hanger DH-184	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#2-103
B6-077	Spring Hanger DH-185	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#2-104
B6-078	Spring Hanger DH-186	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#2-105
B6-079	Guide CCB-1-H9	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#2-123
B6-080	Guide CCB-1-H8	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#2-122
B6-081	Anchor CCB-1-H7	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#2-121
B6-082	Guide CCB-1-H6	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#2-120
B6-083	Anchor CCB-1-H5	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#2-119
B6-084	Guide CCB-1-H4	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#2-118
B6-085	Guide CCB-1-H3	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#2-117
B6-086	Guide CCB-1-H2	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#2-116
B6-087	Anchor CCB-1-H1	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#2-125
B6-088	Spring Hanger DH-170	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#2-106
B6-089	Spring Hanger DH-169	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#2-108
B6-090	Spring Hanger DH-168	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#2-109
B6-091	Restraint DH-167	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#2-110
B6-092	Hydraulic Snubber CCB-1-H16	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#2-130
B6-093	Rigid Hanger CCB-1-H15	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#2-129
B6-094	Guide CCB-1-H17	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#2-131
B6-095	Rigid Hanger CCB-1-H14	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#2-128

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PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 36

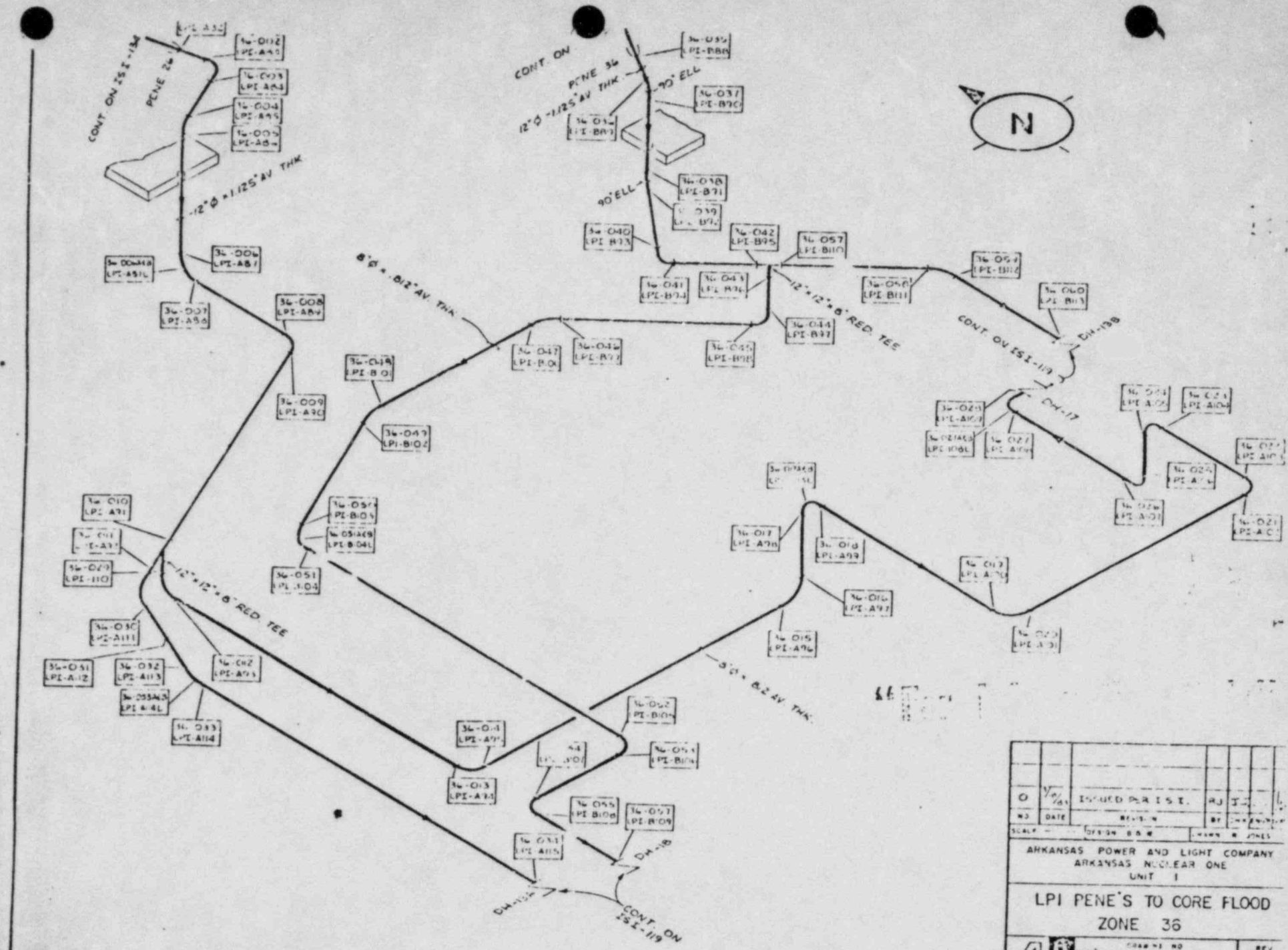
COMPONENT DESCRIPTION

LPI PENETRATIONS TO CORE FLOOD

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B6-096	Guide CCB-1-H13	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#2-127
B6-097	Rigid Hanger CCB-1-H12	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#2-126
B6-098	Anchor CCB-1-H11	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#2-125
B6-099	Failure Restraint MK-14-2	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#C-182
B6-100	Failure Restraint MK-10-2	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#C-182
B6-101	Pressure Retaining Components	C7.20	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-102	Pressure Retaining Components	C7.21	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-103	Pressure Retaining Components	C7.40	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-104	Pressure Retaining Components	C7.41	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry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PENE 24"
12"Ø x 1.125" AV THK
PENE 36"
12"Ø x 1.125" AV THK
90° ELL
90° ELL
8"Ø x .812" AV THK
12" x 12" x 8" RED. TEE
CONT. ON ISI-119
DH-13B
DH-17
12" x 12" x 8" RED. TEE
36" x 8.2" AV. THK
DH-18
DH-19A
CONT. ON ISI-119
N
ISSUED PER I.S.I.
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
LPI PENE'S TO CORE FLOOD
ZONE 36
ISI-136
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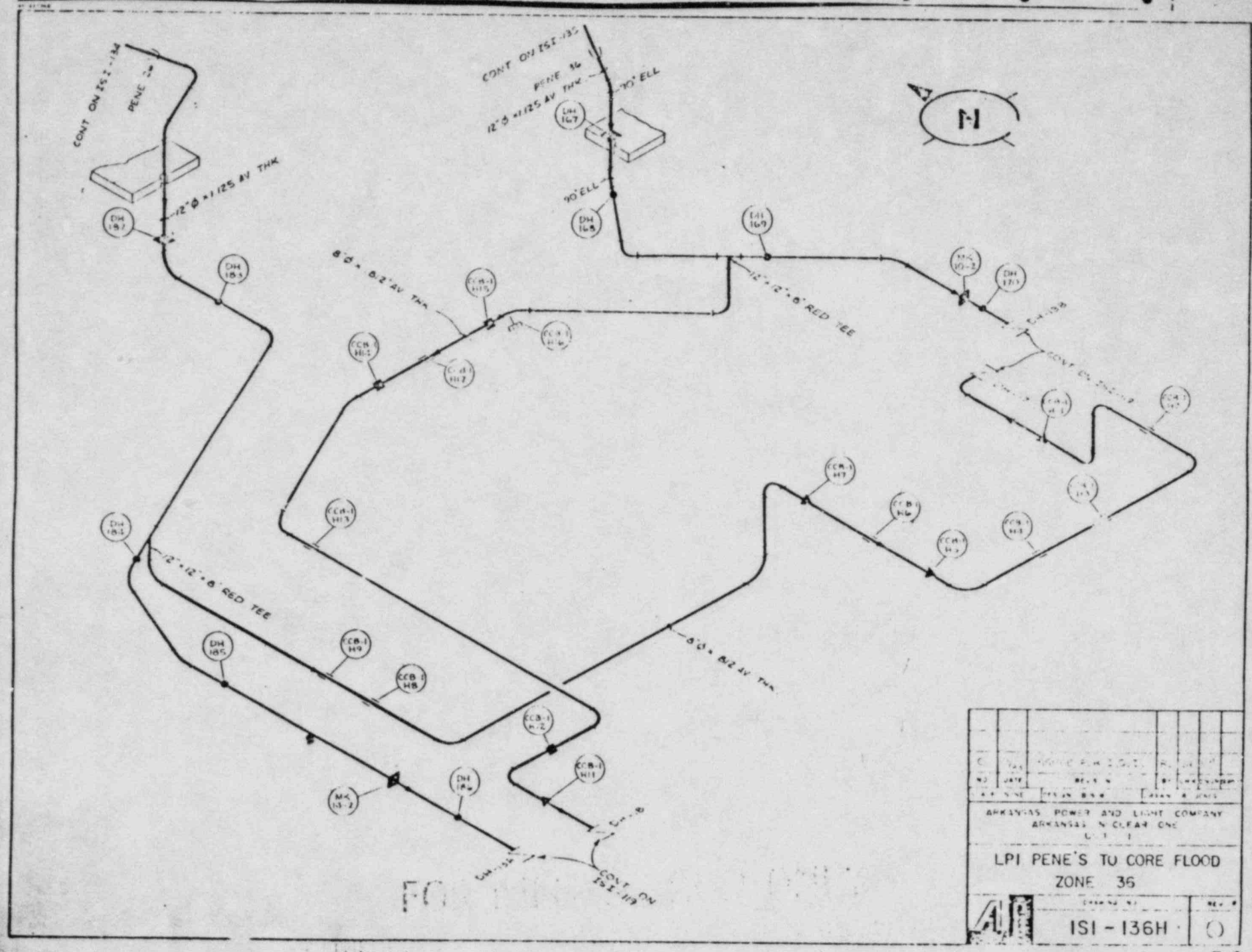
CONT ON ISI-135
PENE 36
12"Ø x 1.125 AV THK
30° ELL
LH 167
DH 169
LH 169
N
CONT ON ISI-135
PENE 35
12"Ø x 1.125 AV THK
DH 183
DH 184
DH 185
8"Ø x 8.2 AV THK
12" x 12" x 8" RED TEE
CCB-1 H15
CCB-1 H16
CCB-1 H17
CCB-1 H13
CCB-1 H9
CCB-1 H8
CCB-1 H12
CCB-1 H11
CCB-1 H7
CCB-1 H6
CCB-1 H5
CCB-1 H3
MK 13-2
DH 186
LH 168
CONT ON ISI-119
MK 10-3
DH 181
CONT ON ISI-137
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
LPI PENE'S TO CORE FLOOD
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ISI-136H
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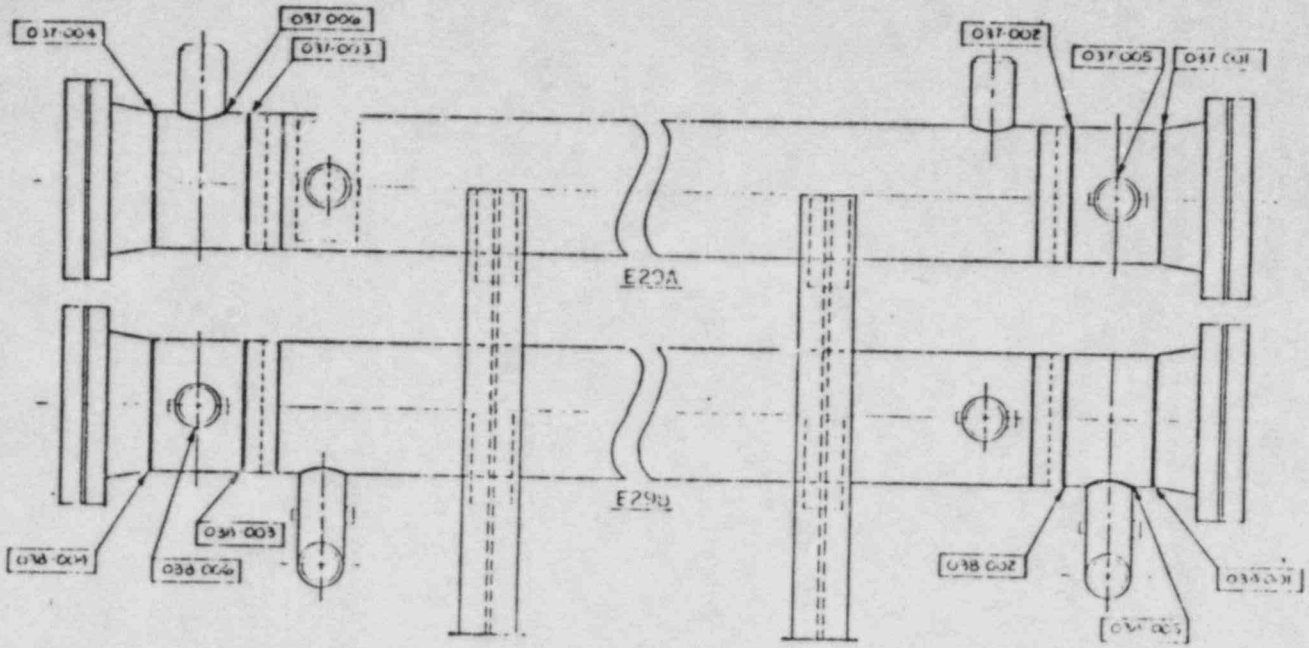
VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 1

LETDOWN COOLING HEAT EXCHANGER E29A

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B7-001	Shell To Flange Circ Seam	B2.51.1	BB	X				100	UT	40810	X	X	X	
B7-002	Tubesheet To Shell Circ Seam	B2.51.2	BB		X			100	UT	40810	X	X	X	
B7-003	Tubesheet To Shell Circ Seam	B2.51.3	BB				X	100	UT	40810	X	X	X	
B7-004	Shell To Flange Circ Seam	B2.51.4	BB			X		100	UT	40810	X	X	X	
B7-005	Nozzle To Shell Weld	B3.150.1	BD		X			100	UT	40810	X	X	X	
B7-006	Nozzle Inside Radius Section	B3.160.1	BD			X		100	UT	40810	X	X	X	
B7-007	Vessel Bolts & Studs	B6.120.1	BG1				X	100	UT	40862	X	X	X	All Bolts & Studs
B7-008	Vessel Flange Surface	B6.130.1	BG1				X	100	VT-1	NA	X	X	X	When Connection Disassembled
B7-009	Vessel Nuts-Bushings-Washers	B6.140.1	BG1				X	100	VT-1	NA	X	X	X	All Nuts-Bushings-Washers
B7-010	Pressure Retaining Boundry	B15.40	BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B7-011	Pressure Retaining Boundry	B15.41	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

LETDOWN COOLING HEAT EXCHANGES
E29A & E29B
ZONES 37&38

DRAWING NO
ISI-137

REV
0

FORM ENG-011

ANO-UNIT-ONE

VESSEL PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 38

COMPONENT DESCRIPTION

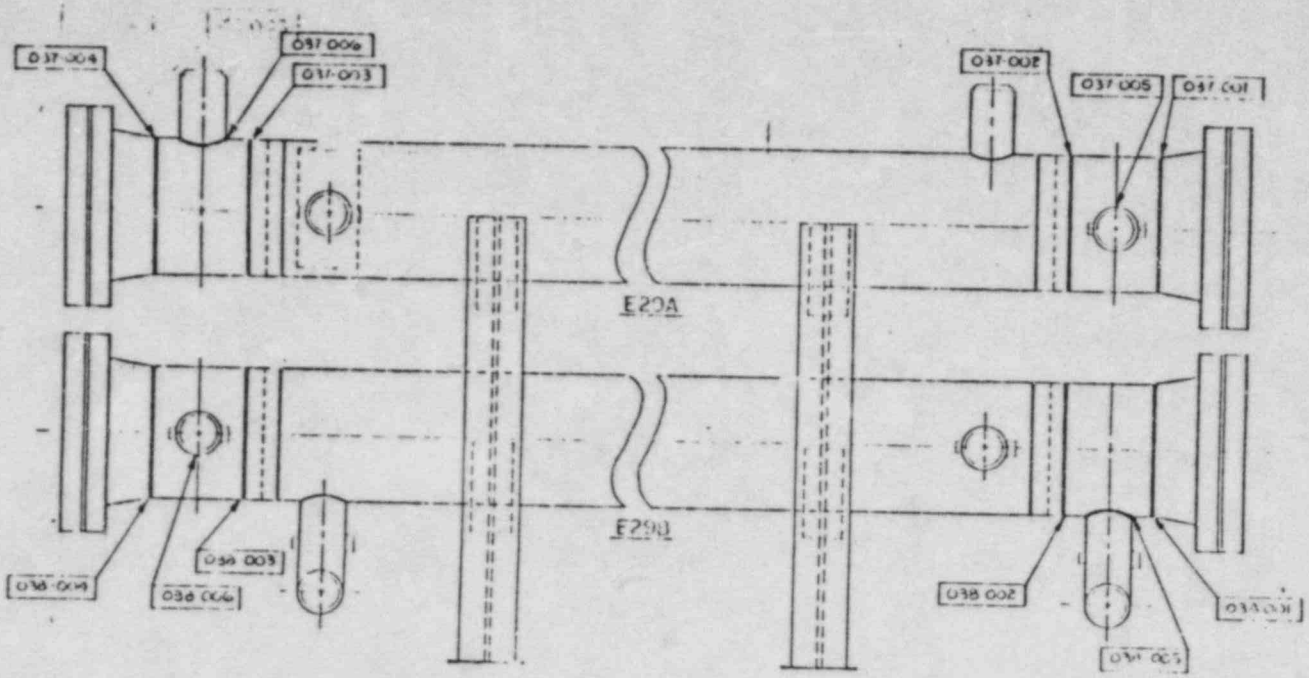
LETDOWN COOLING HEAT EXCHANGER E29B

REVISED 12/01/83

PAGE-1 of 1

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
38-001	Shell To Flange Circ Seam	B2.51.1	BB				X	100	UT	40810				
38-002	Tubesheet To Shell Circ Seam	B2.51.2	BB		X			100	UT	40810				
38-003	Tubesheet To Shell Circ Seam	B2.51.3	BB	X				100	UT	40810				
38-004	Shell To Flange Circ Seam	B2.51.4	BB		X			100	UT	40810				
38-005	Nozzle To Shell Weld	B3.150.1	BB		X			100	UT	40810				
38-006	Nozzle Inside Radius Section	B3.160.1	BB			X		100	UT	40810				
38-007	Vessel Bolts & Studs	B6.120.1	BG1				X	100	UT	40862				All Bolts & Studs
38-008	Vessel Flange Surface	B6.130.1	BG1				X	100	VT-1	NA				When Disassembled
38-009	Vessel Nuts-Bushings-Washers	B6.140.1	BG1				X	100	VT-1	NA				All Nuts-Bushings-Washers
38-010	Pressure Retaining Boundry	B15.40	BP	X	X	X		100	VT-2	NA	NA	NA	NA	System Leakage Test
38-011	Pressure Retaining Boundry	B15.41	BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest



NO	DATE	REVISION	BY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

LETDOWN COOLING HEAT EXCHANGES
E-29A & E-29B
ZONES 3/8 38

A	ISI-137	0

FORM ENG-011

ANO-UNIT-ONE

VESSEL PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-39

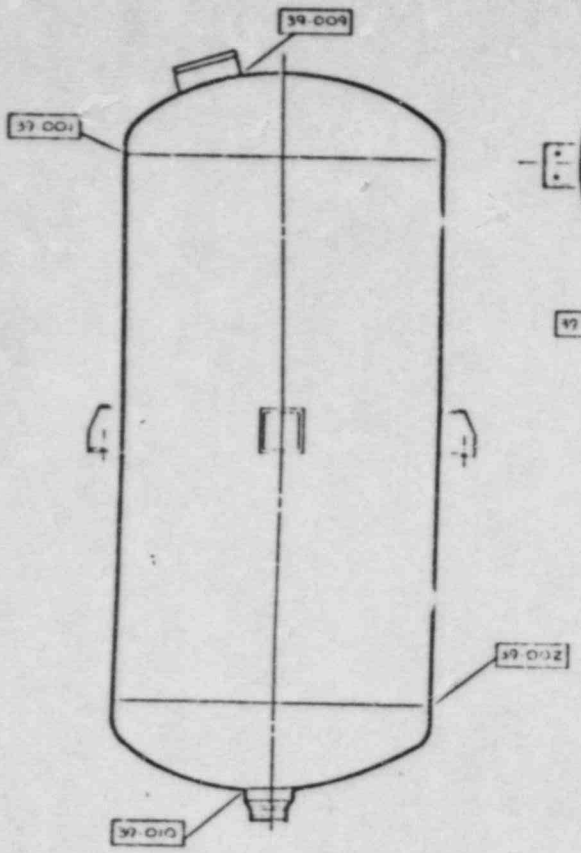
COMPONENT DESCRIPTION

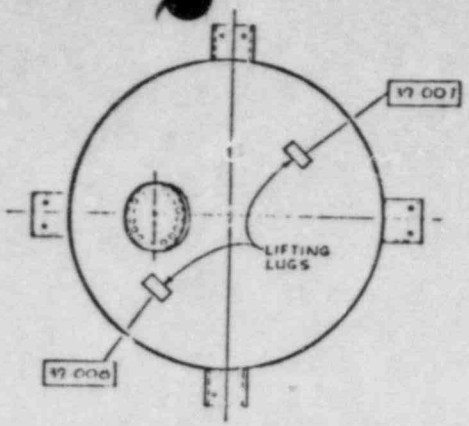
CORE FLOOD TANK T2A

REVISED 12/01/83

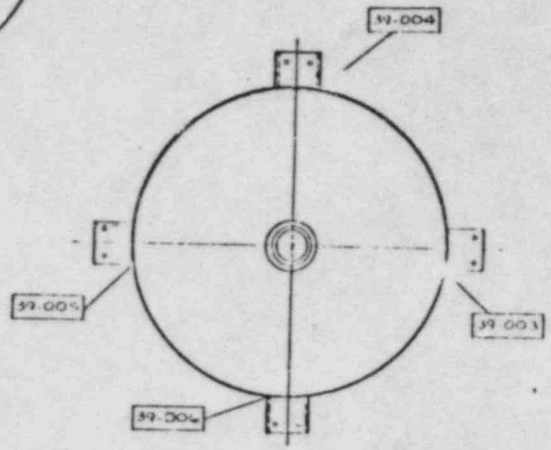
CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
39-001	Top Head To Shell Circ Seam	C1.20.1 CA					100	UT					
39-002	Bottom Head To Shell Circ Seam	C1.20.2 CA					100	UT					
39-003	Support Lug To Shell At W Axis	C3.10.1 CC					100	MT	NA				
39-004	Support Lug To Shell At X Axis	C3.10.2 CC					100	MT	NA				
39-005	Support Lug To Shell At Y Axis	C3.10.3 CC					100	MT	NA				
39-006	Support Lug To Shell At Z Axis	C3.10.4 CC					100	MT	NA				
39-007	Lifting Lug To Top Head Weld	C3.10.5 CC					100	MT	NA				
39-008	Lifting Lug To Top Head Weld	C3.10.6 CC					100	MT	NA				
39-009	Manway To Top Head	C2.21.1 CB					100	MT	NA				
39-009	Manway To Top Head	C2.21.1 CB					100	UT					
39-010	Nozzle To Bottom Head	C2.21.2 CB					100	MT	NA				
39-010	Nozzle To Bottom Head	C2.21.2 CB					100	UT					
39-011	Pressure Retaining Components	C7.10 CH					100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
39-012	Pressure Retaining Components	C7.11 CH					100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry





TOP VIEW



BOTTOM VIEW

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

CORE FLOOD TANK
T2A

SIZE	DRAWING NO.	REV.
A	TSI - 139	0

FORM ENG-011

ANO-UNIT-ONE

VESSEL PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 40

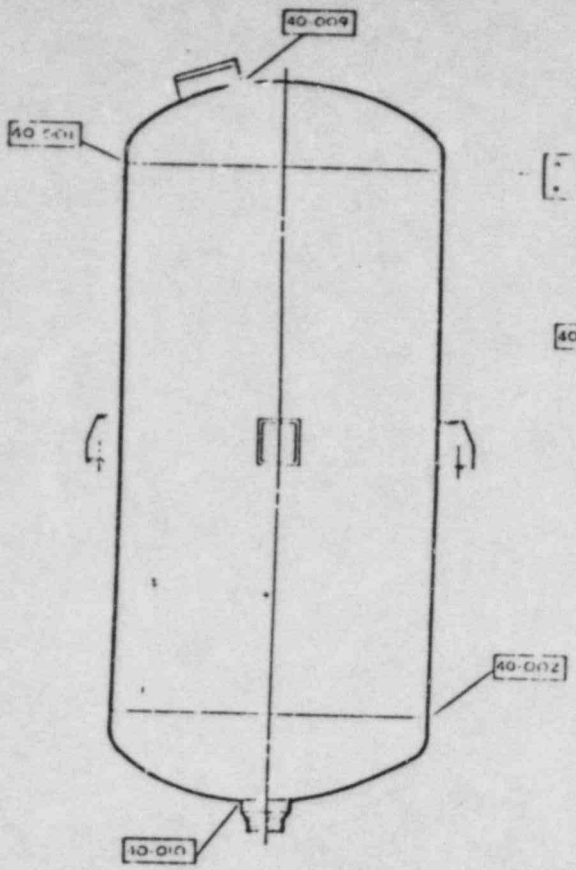
COMPONENT DESCRIPTION

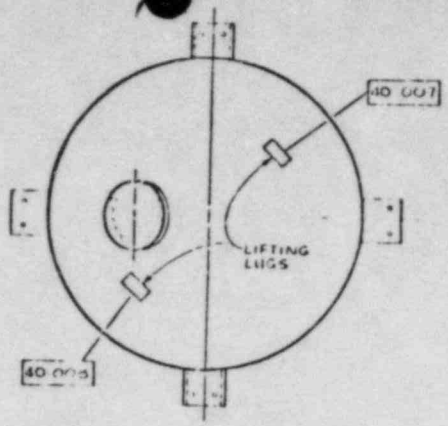
CORE FLOOD TANK T2B

REVISED 12/01/83

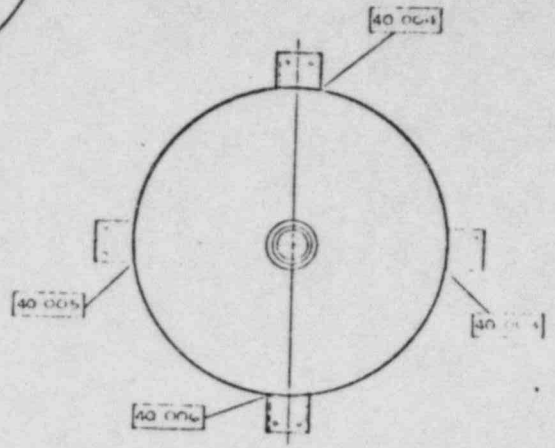
CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
40-001	Top Head To Shell Circ Seam	C1.20.1 CA					100	UT					
40-002	Bottom Head To Shell Circ Seam	C1.20.2 CA					100	UT					
40-003	Support Lug To Shell At W Axis	C3.10.1 CC					100	MT	NA				
40-004	Support Lug To Shell At X Axis	C3.10.2 CC					100	MT	NA				
40-005	Support Lug To Shell At Y Axis	C3.10.3 CC					100	MT	NA				
40-006	Support Lug To Shell At Z Axis	C3.10.4 CC					100	MT	NA				
40-007	Lifting Lug To Head Weld	C3.10.5 CC					100	MT	NA				
40-008	Lifting Lug To Head Weld	C3.10.6 CC					100	MT	NA				
40-009	Manway To Top Head	C2.21.1 CB					100	MT	NA				
40-009	Manway To Top Head	C2.21.1 CB					100	UT					
40-010	Nozzle To Bottom Head	C2.21.2 CB					100	MT	NA				
40-010	Nozzle To Bottom Head	C2.21.2 CB					100	UT					
40-011	Pressure Retaining Components	C7.10 CH					100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
40-012	Pressure Retaining Components	C7.11 CH					100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry





TOP VIEW



BOTTOM VIEW

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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

CORE FLOOD TANK
T28

ISI-140

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FORM ENG-011

ANO-UNIT-ONE

VESSEL PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 41

COMPONENT DESCRIPTION

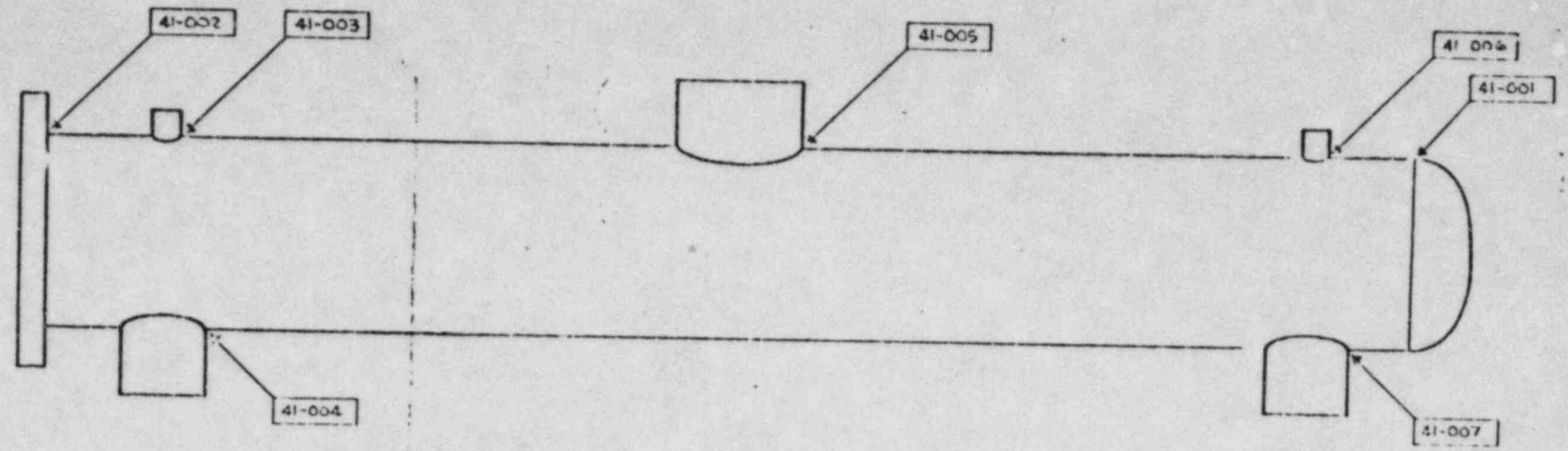
DECAY HEAT REMOVAL COOLER E35A

REVISED 12/01/83

PAGE-1 of 1

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
41-001	Head To Shell Circ Seam	C1.20.1 CA	X				100	UT	40810	X	X	X	
41-002	Shell To Tubesheet Circ Seam	C1.30.1 CA		X			100	UT	40810	X	X	X	
41-003	Nozzle To Shell Weld	C2.21.1 CB		X			100	PT	NA	X	X	X	
41-003	Nozzle To Shell Weld	C2.21.1 CB		X			100	UT	40810	X	X	X	
41-004	Nozzle To Shell Weld	C2.21.2 CB				X	100	PT	NA	X	X	X	
41-004	Nozzle To Shell Weld	C2.21.2 CB				X	100	UT	40810	X	X	X	
41-005	Nozzle To Shell Weld	C2.21.3 CB			X		100	PT	NA	X	X	X	
41-005	Nozzle To Shell Weld	C2.21.3 CB			X		100	UT	40810	X	X	X	
41-006	Nozzle To Shell Weld	C2.21.4 CB	X				100	PT	NA	X	X	X	
41-006	Nozzle To Shell Weld	C2.21.4 CB	X				100	UT	40810	X	X	X	
41-007	Nozzle To Shell Weld	C2.21.5 CB		X			100	PT	NA	X	X	X	
41-007	Nozzle To Shell Weld	C2.21.5 CB		X			100	UT	40810	X	X	X	
41-008	Vessel Bolts & Studs	C4.10.1 CD				X	100	UT	40862	X	X	X	All Bolts & Studs
41-009	Nozzle Inside Radius Section	C2.22.1 CB		X			100	UT	40810	X	X	X	
41-010	Nozzle Inside Radius Section	C2.22.2 CB				X	100	UT	40810	X	X	X	
41-011	Nozzle Inside Radius Section	C2.22.3 CB			X		100	UT	40810	X	X	X	
41-012	Nozzle Inside Radius Section	C2.22.4 CB	X				100	UT	40810	X	X	X	
41-013	Nozzle Inside Radius Section	C2.22.5 CB		X			100	UT	40810	X	X	X	
41-014	Support Saddle To Shell West	C3.10.1 CC				X	100	PT	NA	X	X	X	
41-015	Support Saddle To Shell South	C3.10.2 CC				X	100	PT	NA	X	X	X	
41-016	Pressure Retaining Boundry	C7.10 CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
41-017	Pressure Retaining Boundry	C7.11 CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry



DECAY HEAT COOLER E-35A

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NO	DATE	REVISION	BY	CHKD	ENGR	APP'D

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

DECAY HEAT COOLER E-35A
ZONE 41

DRAWING NO	REV.
ISI-141	0

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE- 42

PAGE-1 of 1

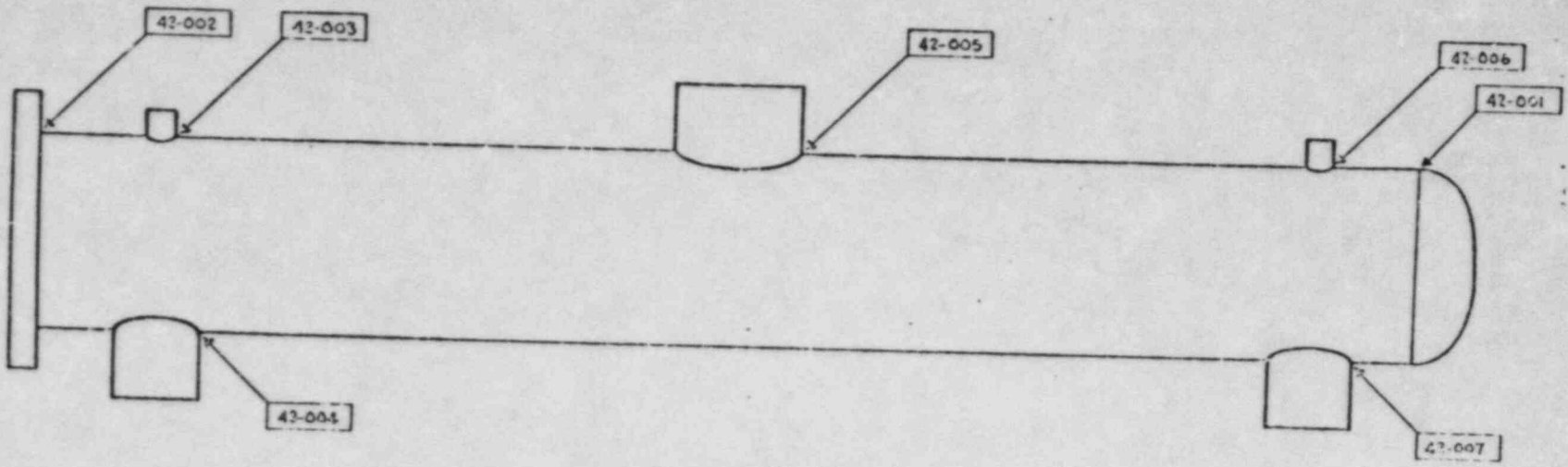
VESSEL PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS-2

DECAY HEAT REMOVAL COOLER E35B

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
42-001	Head To Shell Circ Seam	C1.20.1	CA			X		100	UT	40810	X	X	X	
42-002	Shell To Tubesheet Circ Seam	C1.30.1	CA		X			100	UT	40810	X	X	X	
42-003	Nozzle To Shell Weld	C2.21	CB		X			100	PT	NA	X	X	X	
42-003	Nozzle To Shell Weld	C2.21.	CB		X			100	UT	40810	X	X	X	
42-004	Nozzle To Shell Weld	C2.21	CB	X				100	PT	NA	X	X	X	
42-004	Nozzle To Shell Weld	C2.21	CB	X				100	UT	40810	X	X	X	
42-005	Nozzle To Shell Weld	C2.21	CB		X			100	PT	NA	X	X	X	
42-005	Nozzle To Shell Weld	C2.21	CB		X			100	UT	40810	X	X	X	
42-006	Nozzle To Shell Weld	C2.21	CB				X	100	PT	NA	X	X	X	
42-006	Nozzle To Shell Weld	C2.21	CB				X	100	UT	40810	X	X	X	
42-007	Nozzle To Shell Weld	C2.21	CB		X			100	PT	NA	X	X	X	
42-007	Nozzle To Shell Weld	C2.21	CB		X			100	UT	40810	X	X	X	
42-008	Vessel Bolts & Studs	C4.10.1	CD				X	100	UT	40862	X	X	X	All Bolts & Studs
42-009	Nozzle Inside Radius Section	C5.22.1	CB		X			100	UT	40810	X	X	X	
42-010	Nozzle Inside Radius Section	C5.22.2	CB	X				100	UT	40810				
42-011	Nozzle Inside Radius Section	C5.22.3	CB		X			100	UT	40810				
42-012	Nozzle Inside Radius Section	C5.22.4	CB				X	100	UT	40810				
42-013	Nozzle Inside Radius Section	C5.22.5	CB		X			100	UT	40810	X	X	X	
42-014	Support Saddle To Shell	C3.10.1	CC				X	100	PT	NA	X	X	X	
42-015	Support Saddle To Shell	C3.10.2	CC				X	100	PT	NA	X	X	X	
42-016	Pressure Retaining Boundry	C7.10	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
42-017	Pressure Retaining Boundry	C7.11	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry



DECAY HEAT COOLER E-35B

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NO	DATE	REVISION	BY	CHK'D

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

DECAY HEAT COOLER E-35B
ZONE 42

DRAWING NO	REV.
ISI-142	0

FORM ENG-011

ANO-UNIT-ONE

PUMP PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 43

COMPONENT DESCRIPTION

1A RCP AND MOTOR FLYWHEEL

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
43-S-016	Pump Stud #1	B6.180.1 BG1					100	UT	40860				Inplace
43-S-017	Pump Stud #2	B6.180.2 BG1					100	UT	40860				Inplace
43-S-018	Pump Stud #3	B6.180.3 BG1					100	UT	40860				Inplace
43-S-019	Pump Stud #4	B6.180.4 BG1					100	UT	40860				Inplace
43-S-020	Pump Stud #5	B6.180.5 BG1					100	UT	40860				Inplace
43-S-021	Pump Stud #6	B6.180.6 BG1					100	UT	40860				Inplace
43-S-022	Pump Stud #7	B6.180.7 BG1					100	UT	40860				Inplace
43-S-023	Pump Stud #8	B6.180.8 BG1					100	UT	40860				Inplace
43-S-024	Pump Stud #9	B6.180.9 BG1					100	UT	40860				Inplace
43-S-025	Pump Stud #10	B6.180.10 BG1					100	UT	40860				Inplace
43-S-026	Pump Stud #11	B6.180.11 BG1					100	UT	40860				Inplace
43-S-027	Pump Stud #12	B6.180.12 BG1					100	UT	40860				Inplace
43-S-028	Pump Stud #13	B6.180.13 BG1					100	UT	40860				Inplace
43-S-029	Pump Stud #14	B6.180.14 BG1					100	UT	40860				Inplace
43-S-030	Pump Stud #15	B6.180.15 BG1					100	UT	40860				Inplace
43-S-031	Pump Stud #16	B6.180.16 BG1					100	UT	40860				Inplace
43-S-032	Pump Stud #.	B6.180.17					100	UT	40860				Removed
43-S-033	Pump Stud #2	B6.180.18					100	UT	40860				Removed
43-S-034	Pump Stud #3	B6.180.19					100	UT	40860				Removed
43-S-035	Pump Stud #4	B6.180.20					100	UT	40860				Removed
43-S-036	Pump Stud #5	B6.180.21					100	UT	40860				Removed
43-S-037	Pump Stud #6	B6.180.22					100	UT	40860				Removed
43-S-038	Pump Stud #7	B6.180.23					100	UT	40860				Removed
43-S-039	Pump Stud #8	B6.180.24					100	UT	40860				Removed
43-S-040	Pump Stud #9	B6.180.25					100	UT	40860				Removed
43-S-041	Pump Stud #10	B6.180.26					100	UT	40860				Removed
43-S-042	Pump Stud #11	B6.180.42					100	UT	40860				Removed
43-S-043	Pump Stud #12	B6.180.43					100	UT	40860				Removed
43-S-044	Pump Stud #13	B6.180.44					100	UT	40860				Removed
43-S-045	Pump Stud #14	B6.180.45					100	UT	40860				Removed
43-S-046	Pump Stud #15	B6.180.46					100	UT	40860				Removed
43-S-047	Pump Stud #16	B6.180.47					100	UT	40860				Removed
43-001	Upper Scroll Weld	B12.10.1 BL1					100	RT PT	NA	X	X	X	

FORM ENG-011

ANO-UNIT-ONE

PUMP PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 43

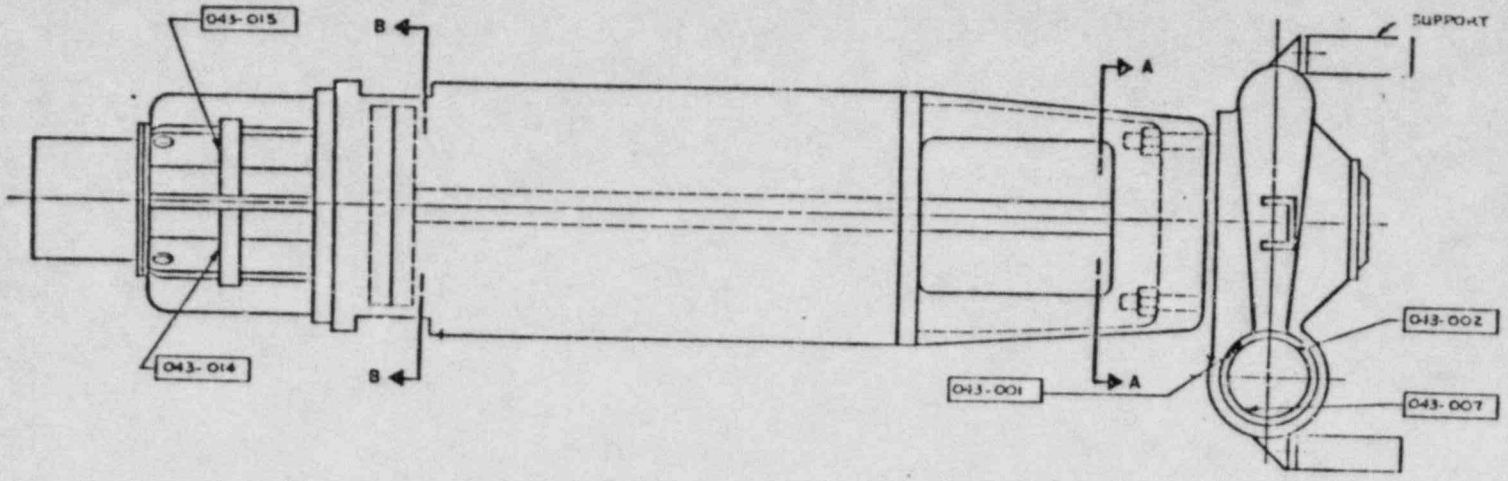
COMPONENT DESCRIPTION

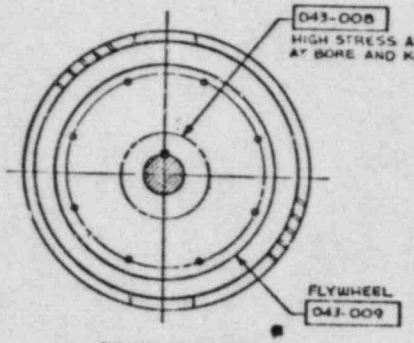
1A RCP AND MOTOR FLYWHEEL

REVISED 12/01/83

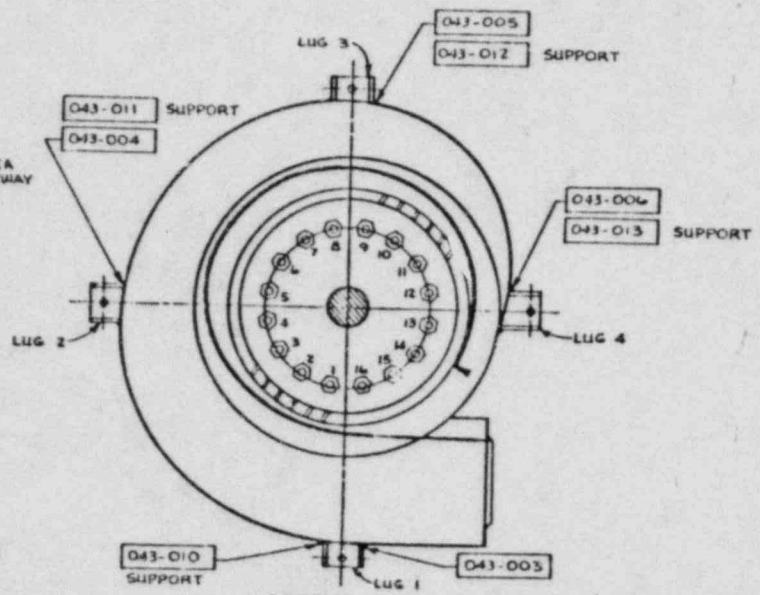
CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
43-002	Lower Scroll Weld	B12.10.2 BL1					100	RT PT	NA	X	X	X	
43-003	Support Lug #1	B10.20.1 BK1					100	UT PT	NA				
43-004	Support Lug #2	B10.20.2 BK1					100	UT PT	NA				
43-005	Support Lug #3	B10.20.3 BK1					100	UT PT	NA				
43-006	Support Lug #4	B10.20.4 BK1					100	UT PT	NA				
43-007	Pump Casing	B12.20.1 BL2					100	VT-3	NA				Internal Press Boundry Surfaces
43-008	Motor Flywheel-Bore & Keyway						100	AE	NA				Per. Tech. Spec. 4.26
43-009	Motor Flywheel-Entire Flywheel						100	AE	NA				Per. Tech. Spec. 4.26
43-010	Pump Support #1	B10.20.5 BK1					100	VT-4	NA				
43-011	Pump Support #2	B10.20.6 BK1					100	VT-4	NA				
43-012	Pump Support #3	B10.20.7 BK1					100	VT-4	NA				
43-013	Pump Support #4	B10.20.8 BK1					100	VT-4	NA				
43-014	Seismic Support-Left Side	B10.20.9 BK1					100	VT-4	NA				
43-015	Seismic Support-Right Side	B10.20.10 BK1					100	VT-4	NA				
43-048	Pressure Retaining Boundry	B15.60 BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
43-049	Pressure Retaining Boundry	B15.61 BP				X	100	VT-2	NA	NA	NA	NA	System Hydrotest





SECTION B-B



SECTION A-A

NO	DATE	REVISION	BY	CHK	ENG	APP
0	5/15	ISSUED PER I.S.I.	RJ			

SCALE NONE DESIGN C.E. DRAWN R. JONES

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

REACTOR COOLANT PUMP 1A
ZONE 43

DRAWING NO. ISI-143 REV. 0

FORM ENG-011

ANO-UNIT-ONE

PUMP PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 44

COMPONENT DESCRIPTION

1B RCP AND MOTOR FLYWHEEL

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
K4-S-016	Pump Stud #1	B6.180.1 BG1					100	UT	40860				Inplace
K4-S-017	Pump Stud #2	B6.180.2 BG1					100	UT	40860				Inplace
K4-S-018	Pump Stud #3	B6.180.3 BG1					100	UT	40860				Inplace
K4-S-019	Pump Stud #4	B6.180.4 BG1					100	UT	40860				Inplace
K4-S-020	Pump Stud #5	B6.180.5 BG1					100	UT	40860				Inplace
K4-S-021	Pump Stud #6	B6.180.6 BG1					100	UT	40860				Inplace
K4-S-022	Pump Stud #7	B6.180.7 BG1					100	UT	40860				Inplace
K4-S-023	Pump Stud #8	B6.180.8 BG1					100	UT	40860				Inplace
K4-S-024	Pump Stud #9	B6.180.9 BG1					100	UT	40860				Inplace
K4-S-025	Pump Stud #10	B6.180.10 BG1					100	UT	40860				Inplace
K4-S-026	Pump Stud #11	B6.180.11 BG1					100	UT	40860				Inplace
K4-S-027	Pump Stud #12	B6.180.12 BG1					100	UT	40860				Inplace
K4-S-028	Pump Stud #13	B6.180.13 BG1					100	UT	40860				Inplace
K4-S-029	Pump Stud #14	B6.180.14 BG1					100	UT	40860				Inplace
K4-S-030	Pump Stud #15	B6.180.15 BG1					100	UT	40860				Inplace
K4-S-031	Pump Stud #16	B6.180.16 BG1					100	UT	40860				Inplace
K4-S-032	Pump Stud #1	B6.180.17 BG1					100	UT	40860				Inplace
K4-S-033	Pump Stud #2	B6.180.18 BG1					100	UT	40860				Removed
K4-S-034	Pump Stud #3	B6.180.19 BG1					100	UT	40860				Removed
K4-S-035	Pump Stud #4	B6.180.20 BG1					100	UT	40860				Removed
K4-S-036	Pump Stud #5	B6.180.21 BG1					100	UT	40860				Removed
K4-S-037	Pump Stud #6	B6.180.22 BG1					100	UT	40860				Removed
K4-S-038	Pump Stud #7	B6.180.23 BG1					100	UT	40860				Removed
K4-S-039	Pump Stud #8	B6.180.24 BG1					100	UT	40860				Removed
K4-S-040	Pump Stud #9	B6.180.25 BG1					100	UT	40860				Removed
K4-S-041	Pump Stud #10	B6.180.26 BG1					100	UT	40860				Removed
K4-S-042	Pump Stud #11	B6.180.27 BG1					100	UT	40860				Removed
K4-S-043	Pump Stud #12	B6.180.28 BG1					100	UT	40860				Removed
K4-S-044	Pump Stud #13	B6.180.29 BG1					100	UT	40860				Removed
K4-S-045	Pump Stud #14	B6.180.30 BG1					100	UT	40860				Removed
K4-S-046	Pump Stud #15	B6.180.31 BG1					100	UT	40860				Removed
K4-S-047	Pump Stud #16	B6.180.32 BG1					100	UT	40860				Removed
K4-001	Upper Scroll Weld	B12.10.1 BL1					100	RT PT	NA				

FORM ENG-011

ANO-UNIT-ONE

PUMP PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 44

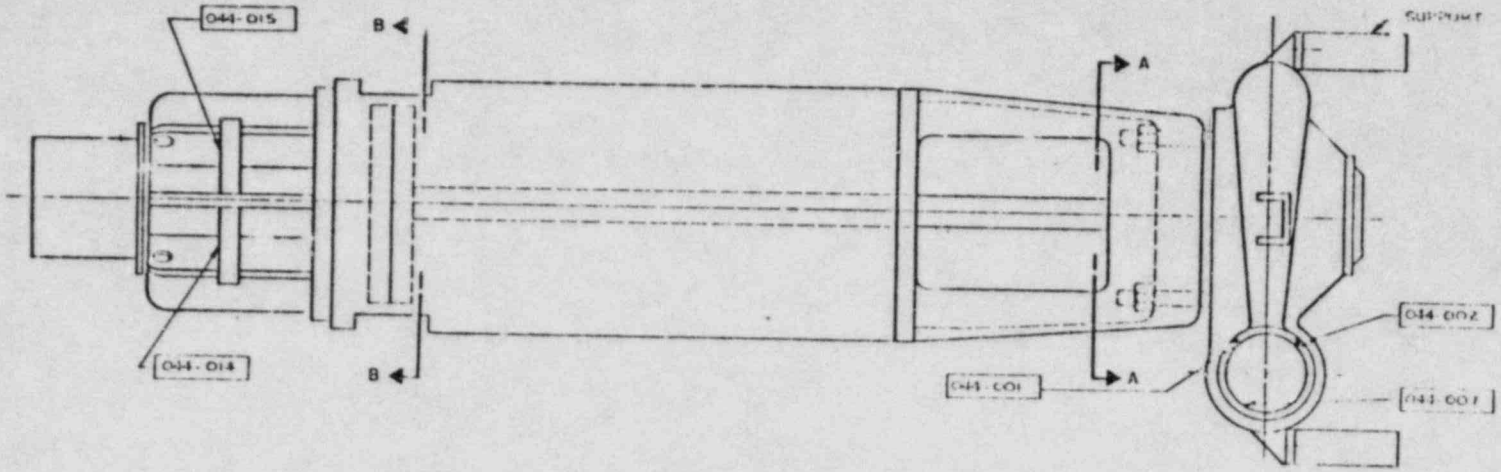
COMPONENT DESCRIPTION

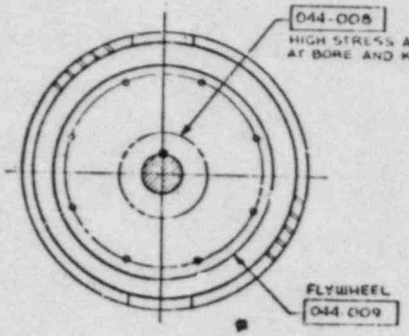
1B RCP AND MOTOR FLYWHEEL

REVISED 12/01/83

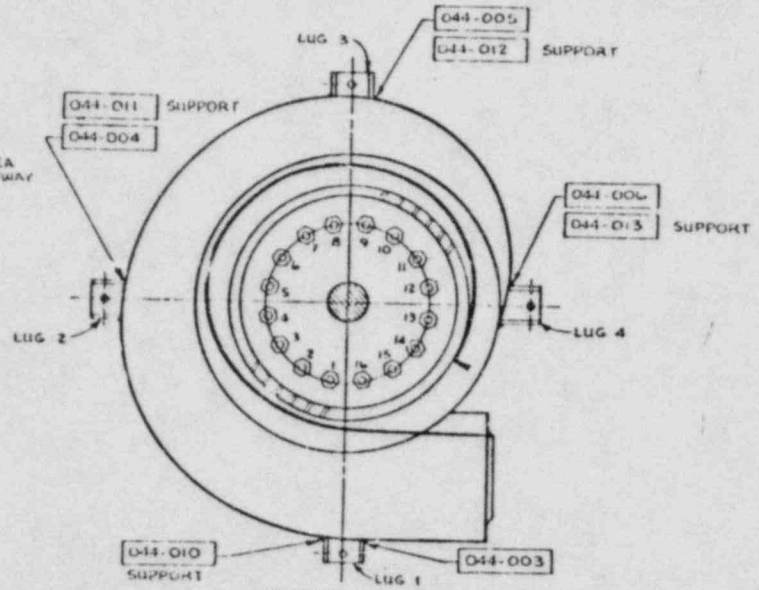
CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
44-002	Lower Scroll Weld	B12.10.2 BL1					100	RT PT	NA				
44-003	Support Lug #1	B10.20.1 BK1					100	UT PT	NA				
44-004	Support Lug #2	B10.20.2 BK1					100	UT PT	NA				
44-005	Support Lug #3	B10.20.3 BK1					100	UT PT	NA				
44-006	Support Lug #4	B10.20.4 BK1					100	UT PT	NA				
44-007	Pump Casing	B12.20.1 BL2					100	UT PT	NA				
44-008	Motor Flywheel-Bore & Keyway						100	VT-3	NA				Internal Pressure Boundry Surface
44-009	Motor Flywheel-Entire Flywheel						100	AE					Per Tech. Spec. 4.26
44-010	Pump Support #1	B10.20.5 BK1					100	AE					Per Tech. Spec. 4.26
44-011	Pump Support #2	B10.20.6 BK1					100	VT-4	NA				
44-012	Pump Support #3	B10.20.7 BK1					100	VT-4	NA				
44-013	Pump Support #4	B10.20.8 BK1					100	VT-4	NA				
44-014	Seismic Support-Left Side	B10.20.9 BK1					100	VT-4	NA				
44-015	Seismic Support-Right Side	B10.20.10 BK1					100	VT-4	NA				
44-048	Pressure Retaining Boundry	B15.60 BP	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
44-049	Pressure Retaining Boundry	B15.61 BP				X		VT-2	NA	NA	NA	NA	System Hydrotest





SECTION B-B



SECTION A-A

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

REACTOR COOLANT PUMP 1A
ZONE 44

ISI - 144 | 0

FORM ENG-011

ANO-UNIT-ONE

PUMP PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 45

COMPONENT DESCRIPTION

2A RCP AND MOTOR FLYWHEEL

REVISED 12/01/83

CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
45-S-016	Pump Stud #1	B6.180.1 BG1					100	UT	40860				Inplace
45-S-017	Pump Stud #2	B6.180.2 BG1					100	UT	40860				Inplace
45-S-018	Pump Stud #3	B6.180.3 BG1					100	UT	40860				Inplace
45-S-019	Pump Stud #4	B6.180.4 BG1					100	UT	40860				Inplace
45-S-020	Pump Stud #5	B6.180.5 BG1					100	UT	40860				Inplace
45-S-021	Pump Stud #6	B6.180.6 BG1					100	UT	40860				Inplace
45-S-022	Pump Stud #7	B6.180.7 BG1					100	UT	40860				Inplace
45-S-023	Pump Stud #8	B6.180.8 BG1					100	UT	40860				Inplace
45-S-024	Pump Stud #9	B6.180.9 BG1					100	UT	40860				Inplace
45-S-025	Pump Stud #10	B6.180.10 BG1					100	UT	40860				Inplace
45-S-026	Pump Stud #11	B6.180.11 BG1					100	UT	40860				Inplace
45-S-027	Pump Stud #12	B6.180.12 BG1					100	UT	40860				Inplace
45-S-028	Pump Stud #13	B6.180.13 BG1					100	UT	40860				Inplace
45-S-029	Pump Stud #14	B6.180.14 BG1					100	UT	40860				Inplace
45-S-030	Pump Stud #15	B6.180.15 BG1					100	UT	40860				Inplace
45-S-031	Pump Stud #16	B6.180.16 BG1					100	UT	40860				Inplace
45-S-032	Pump Stud #1	B6.180.17 BG1					100	UT	40860				Removed
45-S-033	Pump Stud #2	B6.180.18 BG1					100	UT	40860				Removed
45-S-034	Pump Stud #3	B6.180.19 BG1					100	UT	40860				Removed
45-S-035	Pump Stud #4	B6.180.20 BG1					100	UT	40860				Removed
45-S-036	Pump Stud #5	B6.180.21 BG1					100	UT	40860				Removed
45-S-037	Pump Stud #6	B6.180.22 BG1					100	UT	40860				Removed
45-S-038	Pump Stud #7	B6.180.23 BG1					100	UT	40860				Removed
45-S-039	Pump Stud #8	B6.180.24 BG1					100	UT	40860				Removed
45-S-040	Pump Stud #9	B6.180.25 BG1					100	UT	40860				Removed
45-S-041	Pump Stud #10	B6.180.26 BG1					100	UT	40860				Removed
45-S-042	Pump Stud #11	B6.180.27 BG1					100	UT	40860				Removed
45-S-043	Pump Stud #12	B6.180.28 BG1					100	UT	40860				Removed
45-S-044	Pump Stud #13	B6.180.29 BG1					100	UT	40860				Removed
45-S-045	Pump Stud #14	B6.180.30 BG1					100	UT	40860				Removed
45-S-046	Pump Stud #15	B6.180.31 BG1					100	UT	40860				Removed
45-S-047	Pump Stud #16	B6.180.32 BG1					100	UT	40860				Removed
45-001	Upper Scroll Weld	B12.10.1 BL1					100	RT PT	NA				

FORM ENG-011

ANO-UNIT-ONE

PUMP PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 45

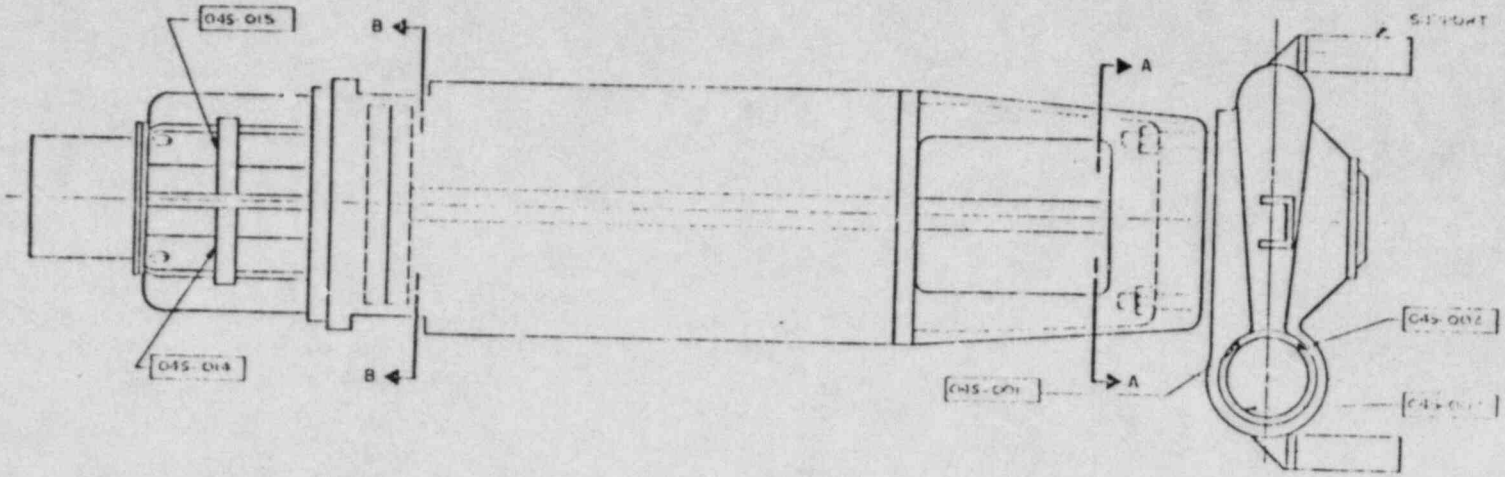
COMPONENT DESCRIPTION

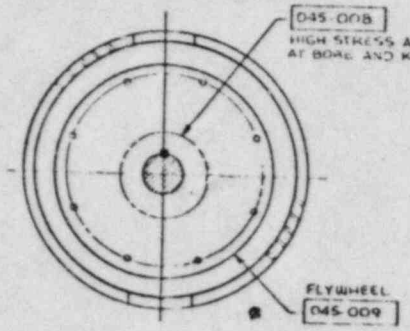
2A RCP AND MOTOR FLYWHEEL

REVISED 12/01/83

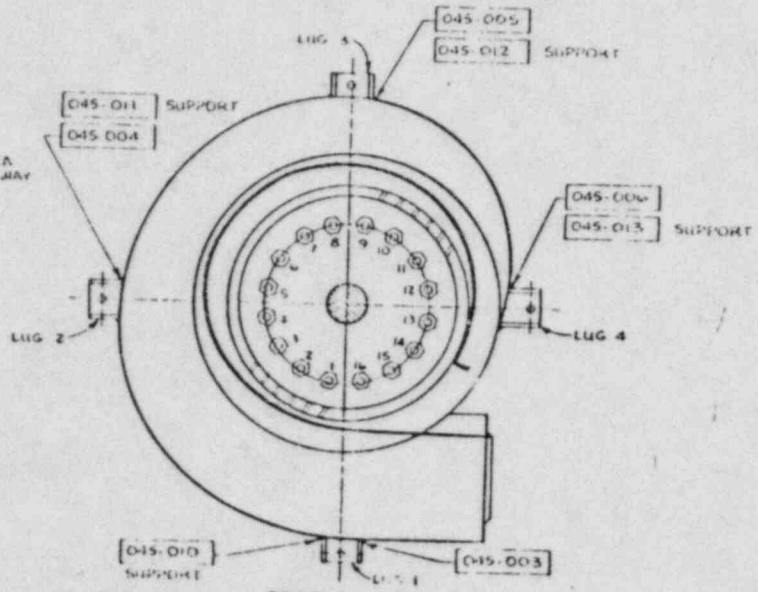
CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
45-002	Lower Scroll Weld	B12.10.2 BL1					100	RT PT	NA				
45-003	Support Lug #1	B10.20.1 BL1					100	UT PT	NA				
45-004	Support Lug #2	B10.20.2 BL1					100	UT PT	NA				
45-005	Support Lug #3	B10.20.3 BL1					100	UT PT	NA				
45-006	Support Lug #4	B10.20.4 BL1					100	UT PT	NA				
45-007	Pump Casing	B12.20.1 BL2					100	VT-3	NA				Internal Pressure Boundry Surface
45-008	Motor Flywheel-Bore & Keyway						100	AE	NA				Per Tech. Spec. 4.26
45-009	Motor Flywheel-Entire Flywheel						100	AE	NA				Per Tech. Spec. 4.26
45-010	Pump Support #1	B10.20.5 BK1					100	VT-4	NA				
45-011	Pump Support #2	B10.20.6 BK1					100	VT-4	NA				
45-012	Pump Support #3	B10.20.7 BK1					100	VT-4	NA				
45-013	Pump Support #4	B10.20.8 BK1					100	VT-4	NA				
45-014	Seismic Support-Left Side	B10.20.9 BK1					100	VT-4	NA				
45-015	Seismic Support-Right Side	B10.20.10 BK1					100	VT-4	NA				
45-048	Pressure Retaining Boundry	B15.60 BP	X	X	X	X	100	VT-2	NA				System Leakage Test
45-049	Pressure Retaining Boundry	B15.61 BP				X	100	VT-2	NA				System Hydrotest





SECTION B-B



SECTION A-A

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

REACTOR COOLANT PUMP 1A
ZONE 45

ISI-145

FORM ENG-011

ANO-UNIT-ONE

PUMP PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 46

COMPONENT DESCRIPTION

2B RCP AND MOTOR FLYWHEEL

REVISED 12/01/83

CLASS- 1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
46-S-016	Pump Stud #1	B6.180.1 BG1					100	UT	40860				Inplace
46-S-017	Pump Stud #2	B6.180.2 BG1					100	UT	40860				Inplace
46-S-018	Pump Stud #3	B6.180.3 BG1					100	UT	40860				Inplace
46-S-019	Pump Stud #4	B6.180.4 BG1					100	UT	40860				Inplace
46-S-020	Pump Stud #5	B6.180.5 BG1					100	UT	40860				Inplace
46-S-021	Pump Stud #6	B6.180.6 BG1					100	UT	40860				Inplace
46-S-022	Pump Stud #7	B6.180.7 BG1					100	UT	40860				Inplace
46-S-023	Pump Stud #8	B6.180.8 BG1					100	UT	40860				Inplace
46-S-024	Pump Stud #9	B6.180.9 BG1					100	UT	40860				Inplace
46-S-025	Pump Stud #10	B6.180.10 BG1					100	UT	40860				Inplace
46-S-026	Pump Stud #11	B6.180.11 BG1					100	UT	40860				Inplace
46-S-027	Pump Stud #12	B6.180.12 BG1					100	UT	40860				Inplace
46-S-028	Pump Stud #13	B6.180.13 BG1					100	UT	40860				Inplace
46-S-029	Pump Stud #14	B6.180.14 BG1					100	UT	40860				Inplace
46-S-030	Pump Stud #15	B6.180.15 BG1					100	UT	40860				Inplace
46-S-031	Pump Stud #16	B6.180.16 BG1					100	UT	40860				Inplace
46-S-032	Pump Stud #1	B6.180.17 BG1					100	UT	40860				Removed
46-S-033	Pump Stud #2	B6.180.18 BG1					100	UT	40860				Removed
46-S-034	Pump Stud #3	B6.180.19 BG1					100	UT	40860				Removed
46-S-035	Pump Stud #4	B6.180.20 BG1					100	UT	40860				Removed
46-S-036	Pump Stud #5	B6.180.21 BG1					100	UT	40860				Removed
46-S-037	Pump Stud #6	B6.180.22 BG1					100	UT	40860				Removed
46-S-038	Pump Stud #7	B6.180.23 BG1					100	UT	40860				Removed
46-S-039	Pump Stud #8	B6.180.24 BG1					100	UT	40860				Removed
46-S-040	Pump Stud #9	B6.180.25 BG1					100	UT	40860				Removed
46-S-041	Pump Stud #10	B6.180.26 BG1					100	UT	40860				Removed
46-S-042	Pump Stud #11	B6.180.27 BG1					100	UT	40860				Removed
46-S-043	Pump Stud #12	B6.180.28 BG1					100	UT	40860				Removed
46-S-044	Pump Stud #13	B6.180.29 BG1					100	UT	40860				Removed
46-S-045	Pump Stud #14	B6.180.30 BG1					100	UT	40860				Removed
46-S-046	Pump Stud #15	B6.180.31 BG1					100	UT	40860				Removed
46-S-047	Pump Stud #16	B6.180.32 BG1					100	UT	40860				Removed
46-001	Upper Scroll Weld	B12.10.1 BL1					100	RT PT	NA				

FORM ENG-011

ANO-UNIT-ONE

PUMP PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 46

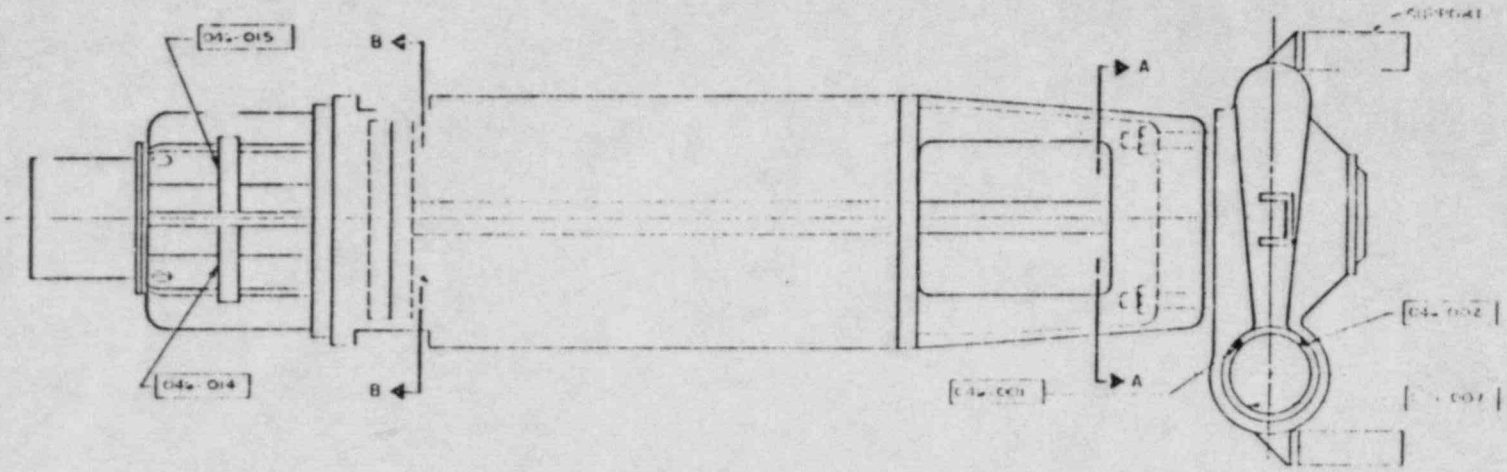
COMPONENT DESCRIPTION

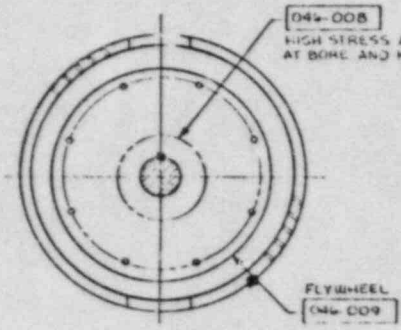
2B RCP AND MOTOR FLYWHEEL

REVISED 12/01/83

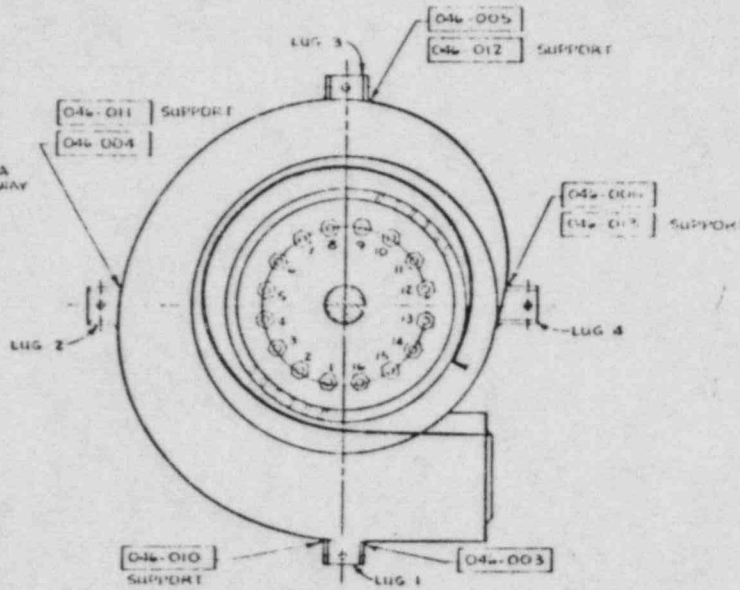
CLASS-1

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
46-002	Lower Scroll Weld	B12.10.2 BL1					100	RT PT	NA				
46-003	Support Lug #1	B10.20.1 BL1					100	UT PT					
46-004	Support Lug #2	B10.20.2 BL1					100	UT PT					
46-005	Support Lug #3	B10.20.3 BL1					100	UT PT					
46-006	Support Lug #4	B10.20.4 BL1					100	UT PT					
46-007	Pump Casing	B12.20.1 BL2					100	VT-3	NA				Internal Pressure Boundry Surface
46-008	Motor Flywheel-Bore & Keyway						100	AE					Per Tech. Spec. 4.26
46-009	Motor Flywheel-Entire Flywheel						100	AE					Per Tech. Spec. 4.26
46-010	Pump Support #1	B10.20.5 BK1					100	VT-4	NA				
46-011	Pump Support #2	B10.20.6 BK1					100	VT-4	NA				
46-012	Pump Support #3	B10.20.7 BK1					100	VT-4	NA				
46-013	Pump Support #4	B10.20.8 BK1					100	VT-4	NA				
46-014	Seismic Support-Left Side	B10.20.9 BK1					100						
46-015	Seismic Support-Right Side	B10.20.10 BK1					100						
46-048	Pressure Retaining Boundry	B15.60	X	X	X	X	100	VT-2	NA				System Leakage Test
46-049	Pressure Retaining Boundry	B15.61				X	100	VT-2	NA				





SECTION B-B



SECTION A-A

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

REACTOR COOLANT PUMP 1A
ZONE 46

ISI-146

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 47

COMPONENT DESCRIPTION

PRESSURIZER SAFETY VALVE DISCHARGE

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
47-001	Flange To Pipe Circ Seam	C5.11.1 CF					100	PT	NA				FCB-2-1
47-002	Pipe To Ell Circ Seam	C5.11.2 CF					100	PT	NA				FCB-2-2
47-003	Ell To Pipe Circ Seam	C5.11.3 CF					100	PT	NA				FCB-2-3
47-004	Pipe To Ell Circ Seam	C5.11.4 CF					100	PT	NA				FCB-2-4
47-005	Ell To Pipe Circ Seam	C5.11.5 CF					100	PT	NA				FCB-2-5
47-006	Pipe To Ell Circ Seam	C5.11.6 CF					100	PT	NA				FCB-2-6
47-007	Ell To Pipe Circ Seam	C5.11.7 CF					100	PT	NA				FCB-2-7
47-008	Pipe To Ell Circ Seam	C5.11.8 CF					100	PT	NA				FCB-2-8
47-009	Ell To Pipe Circ Seam	C5.11.9 CF					100	PT	NA				FCB-2-9
47-010	Pipe To Ell Circ Seam	C5.11.10 CF					100	PT	NA				FCB-2-10
47-011	Ell To Pipe Circ Seam	C5.11.11 CF					100	PT	NA				FCB-2-11
47-012	Pipe To Ell Circ Seam	C5.11.12 CF	X				100	PT	NA	X	X	X	FCB-2-12
47-013	Ell To Pipe Circ Seam	C5.11.13 CF					100	PT	NA				FCB-2-13
47-014	Pipe To Ell Circ Seam	C5.11.14 CF					100	PT	NA				FCB-2-14
47-015	Ell To Pipe Circ Seam	C5.11.15 CF					100	PT	NA				FCB-2-15
47-016	Pipe To Ell Circ Seam	C5.11.16 CF					100	PT	NA				FCB-2-16
47-017	Ell To Pipe Circ Seam	C5.11.17 CF					100	PT	NA				FCB-2-17
47-018	Pipe To Ell Circ Seam	C5.11.18 CF					100	PT	NA				FCB-2-18
47-019	Ell To Pipe Circ Seam	C5.11.19 CF					100	PT	NA				FCB-2-19
47-020	Pipe To Ell Circ Seam	C5.11.20 CF					100	PT	NA				FCB-2-20
47-021	Ell To Pipe Circ Seam	C5.11.21 CF		X			100	PT	NA	X	X	X	FCB-2-21
47-022	Pipe To Ell Circ Seam	C5.11.22 CF					100	PT	NA				FCB-2-22
47-023	Ell To Pipe Circ Seam	C5.11.23 CF					100	PT	NA				FCB-2-23
47-024	Pipe To Ell Circ Seam	C5.11.24 CF					100	PT	NA				FCB-2-24
47-025	Ell To Pipe Circ Seam	C5.11.25 CF					100	PT	NA				FCB-2-25
47-026	Pipe To Ell Circ Seam	C5.11.26 CF					100	PT	NA				FCB-2-26
47-027	Ell To Pipe Circ Seam	C5.11.27 CF					100	PT	NA				FCB-2-27
47-028	Pipe To Ell Circ Seam	C5.11.28 CF					100	PT	NA				FCB-2-28
47-029	Ell To Pipe Circ Seam	C5.11.29 CF					100	PT	NA				FCB-2-29
47-030	Pipe To Ell Circ Seam	C5.11.30 CF					100	PT	NA				FCB-2-30
47-031	Ell To Pipe Circ Seam	C5.11.31 CF					100	PT	NA				FCB-2-31
47-032	Pipe To Ell Circ Seam	C5.11.32 CF					100	PT	NA				FCB-2-32
47-033	Ell To Pipe Circ Seam	C5.11.33 CF					100	PT	NA				FCB-2-33

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 47

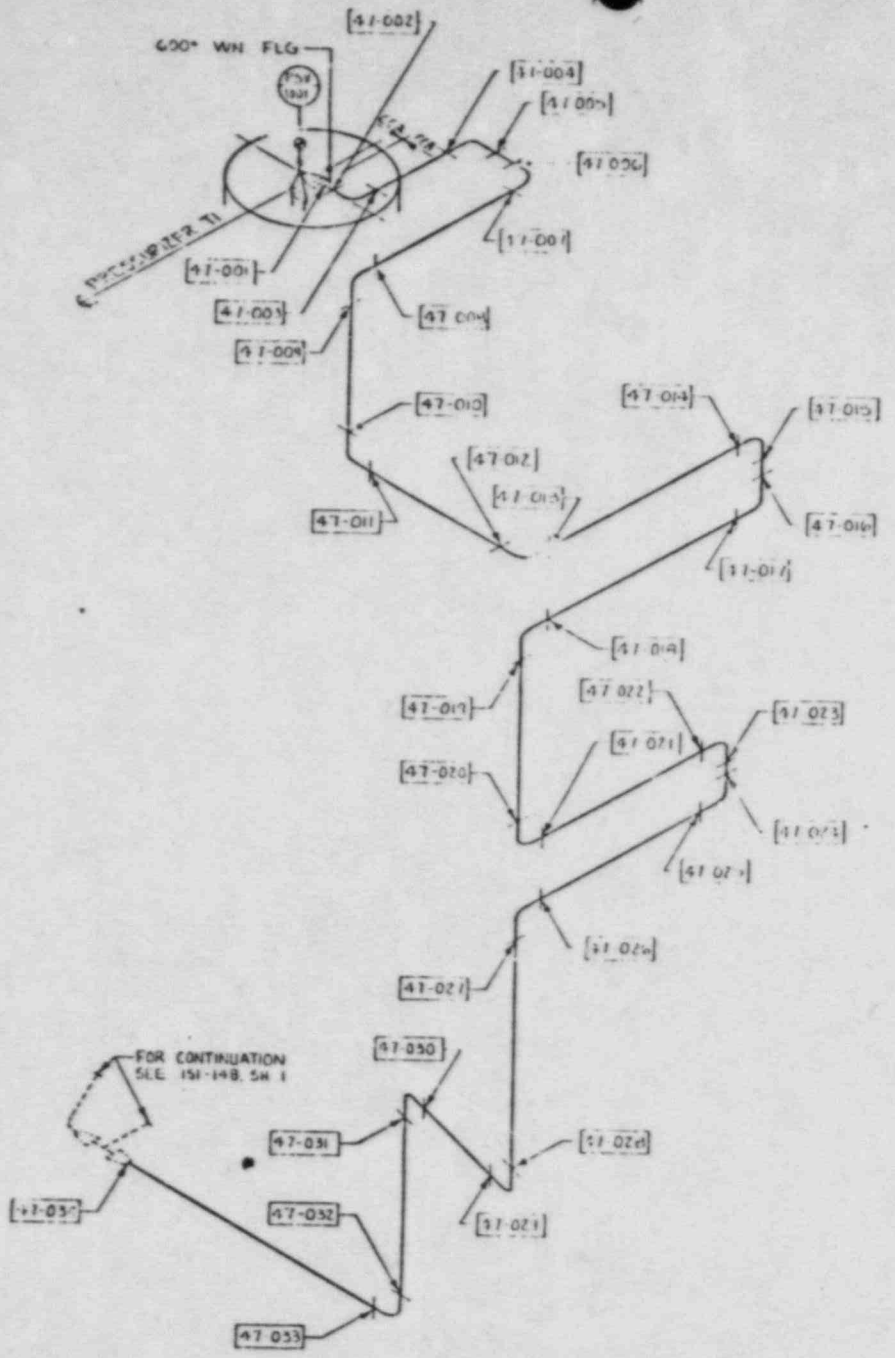
COMPONENT DESCRIPTION

PRESSURIZER SAFETY VALVE DISCHARGE

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
47-034	Pipe To Reducer Circ Seam	B5.11.34 CF					100	PT	NA				FCB-2-34
47-035	Spring Hanger RC-16	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#6-213
47-036	Hydraulic Snubber HS-11	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#6-241
47-037	Hydraulic Snubber HS-12	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#6-242
47-038	Spring Hanger RC-18	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#6-244
47-039	Restraint HA-3	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#6-263-A
47-040	Hydraulic Snubber HS-10	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-263
47-041	Guide RC-19	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#6-215
47-042	Hydraulic Snubber HA-1	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-258
47-043	Spring Hanger RC-29	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-225
47-044	Hydraulic Snubber HS-13	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-243
47-045	Hydraulic Snubber HS-14	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#6-244
47-046	Spring Hanger RC-20	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#6-216
47-047	Spring Hanger RC-22	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#6-218
47-048	Hydraulic Snubber HA-2	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#6-259
47-049	Guide RC-21	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#6-217
47-050	Guide RC-23	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-219
47-051	Spring Hanger RC-24	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-220
47-052	Spring Hanger RC-26	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-222
47-053	Guide RC-25	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#6-221
47-054	Guide RC-27	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#6-223
47-055	Hydraulic Snubber HS-71	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#6-252
47-056	Spring Hanger RC-28	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#6-224
47-057	Hydraulic Snubber HS-72	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#6-253
47-058	Guide RC-51	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#6-246
47-059	Pressure Retaining Components	B7.20 C-H	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry Piping
47-060	Pressure Retaining Components	B7.21 C-H				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry Piping



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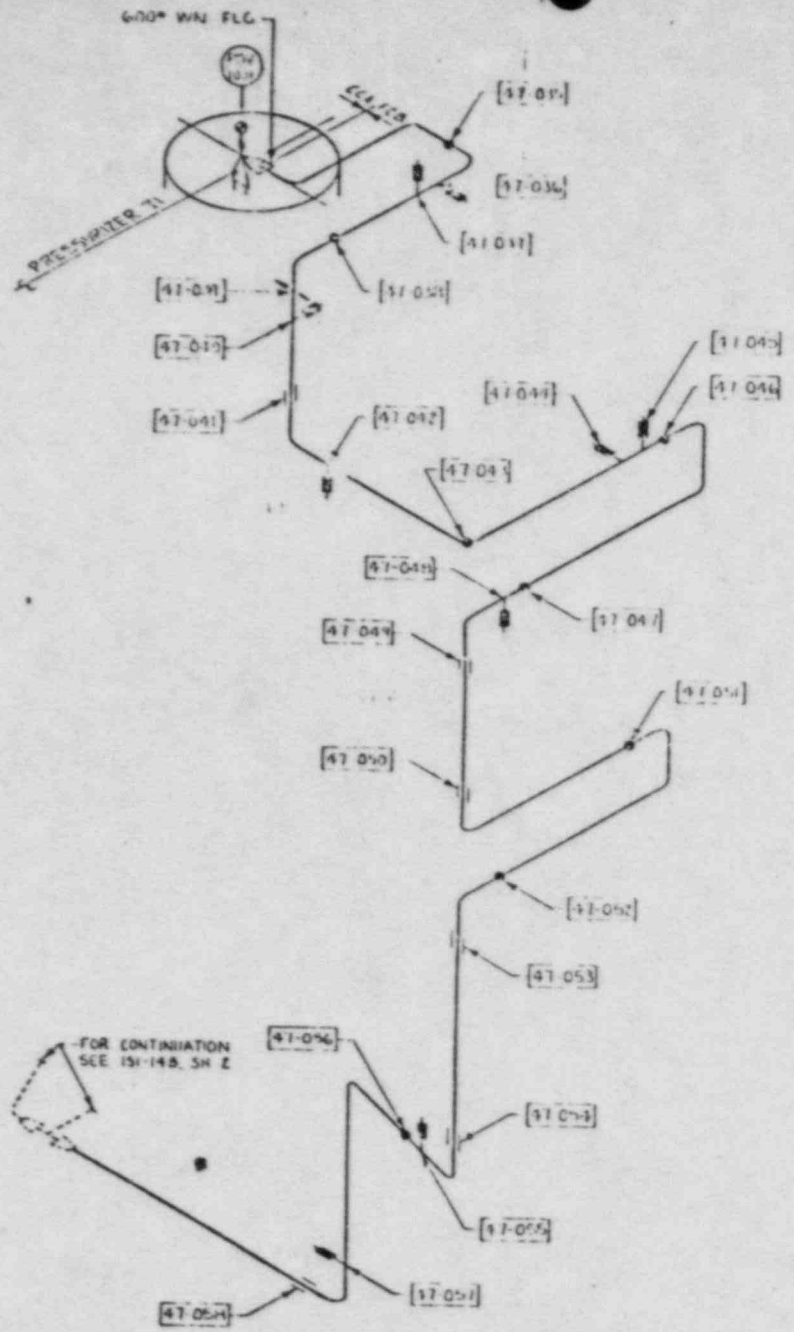
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

PRESSURIZER SAFETY VALVE DISCHARGE
WELDS
ZONE 47

DRAWING NO: ISI-147 SH 1 OF 2 REV 0



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

PRESSURIZER SAFETY VALVE DISCHARGE HANGERS
ZONE 47

DRAWING NO.
ISI-147

SH 1 OF 1

REV 1

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 48

COMPONENT DESCRIPTION

PRESSURIZER SAFETY VALVE DISCHARGE FCB-2-6"

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
48-001	Flange To Pipe Circ Seam	C5.11.1 CF					100	PT	NA				FCB-4-1
48-002	Pipe To Ell Circ Seam	C5.11.2 CF					100	PT	NA				FCB-4-2
48-003	Ell To Pipe Circ Seam	C5.11.3 CF					100	PT	NA				FCB-4-3
48-004	Pipe To Ell Circ Seam	C5.11.4 CF					100	PT	NA				FCB-4-4
48-005	Ell To Pipe Circ Seam	C5.11.5 CF					100	PT	NA				FCB-4-5
48-006	Pipe To Ell Circ Seam	C5.11.6 CF					100	PT	NA				FCB-4-6
48-007	Ell To Pipe Circ Seam	C5.11.7 CF					100	PT	NA				FCB-4-7
48-008	Pipe To Ell Circ Seam	C5.11.8 CF					100	PT	NA				FCB-4-8
48-009	Ell To Pipe Circ Seam	C5.11.9 CF					100	PT	NA				FCB-4-9
48-010	Pipe To Ell Circ Seam	C5.11.10 CF					100	PT	NA				FCB-4-10
48-011	Ell To Pipe Circ Seam	C5.11.11 CF					100	PT	NA				FCB-4-11
48-012	Pipe To Ell Circ Seam	C5.11.12 CF					100	PT	NA				FCB-4-12
48-013	Ell To Pipe Circ Seam	C5.11.13 CF					100	PT	NA				FCB-4-13
48-014	Pipe To Ell Circ Seam	C5.11.14 CF					100	PT	NA				FCB-4-14
48-015	Ell To Pipe Circ Seam	C5.11.15 CF					100	PT	NA				FCB-4-15
48-016	Pipe To Ell Circ Seam	C5.11.16 CF		X			100	PT	NA	X	X	X	FCB-4-16
48-017	Ell To Pipe Circ Seam	C5.11.17 CF					100	PT	NA				FCB-4-17
48-018	Pipe To Ell Circ Seam	C5.11.18 CF					100	PT	NA				FCB-4-18
48-019	Ell To Pipe Circ Seam	C5.11.19 CF					100	PT	NA				FCB-4-19
48-020	Pipe To Ell Circ Seam	C5.11.20 CF					100	PT	NA				FCB-4-20
48-021	Ell To Pipe Circ Seam	C5.11.21 CF					100	PT	NA				FCB-4-21
48-022	Pipe To Ell Circ Seam	C5.11.22 CF					100	PT	NA				FCB-4-22
48-023	Ell To Pipe Circ Seam	C5.11.23 CF			X		100	PT	NA	X	X	X	FCB-4-23
48-024	Pipe To Ell Circ Seam	C5.11.24 CF					100	PT	NA				FCB-4-24
48-025	Ell To Reducer Circ Seam	C5.11.25 CF					100	PT	NA				FCB-4-25
48-026	Reducer To Tee Circ Seam	C5.11.26 CF					100	PT	NA				FCB-4-26
48-027	Tee To Reducer Circ Seam	C5.11.27 CF					100	PT	NA				FCB-4-27
48-028	Tee To Pipe Circ Seam	C5.11.28 CF					100	PT	NA				FCB-4-28
48-029	Pipe To Ell Circ Seam	C5.11.29 CF					100	PT	NA				FCB-4-29
48-030	Ell To Pipe Circ Seam	C5.11.30 CF					100	PT	NA				FCB-4-30
48-031	Pipe To Ell Circ Seam	C5.11.31 CF					100	PT	NA				FCB-4-31
48-032	Ell To Pipe Circ Seam	C5.11.32 CF					100	PT	NA				FCB-4-32
48-033	Pipe To Ell Circ Seam	C5.11.33 CF					100	PT	NA				FCB-4-33

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-48

COMPONENT DESCRIPTION

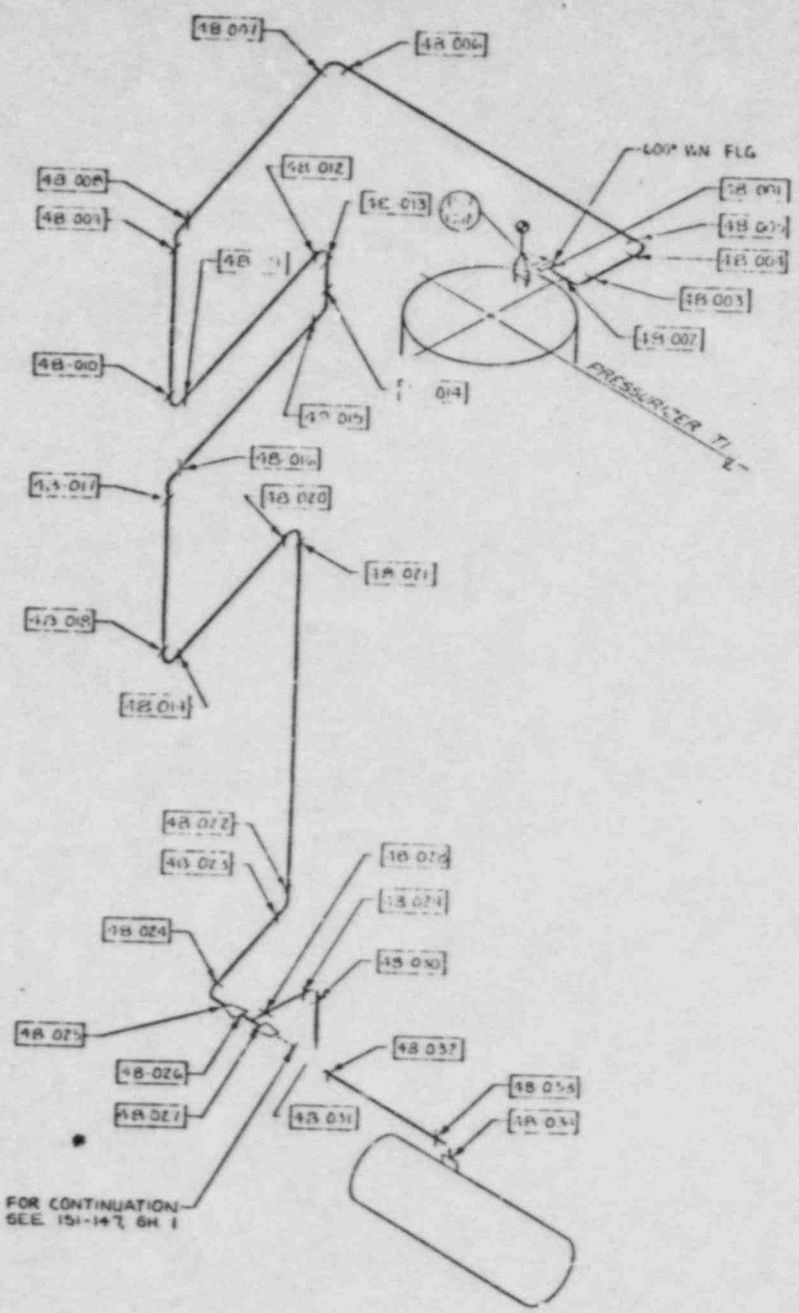
~~PRESSURIZER SAFETY VALVE DISCHARGE FCB-2-6"~~

REVISED 12/01/83

PAGE-2 of 2

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
48-034	Ell To Nozzle Circ Seam	C5.11.34 CF					100	PT	NA	X	X	X	FCB-4-34
48-035	Guide RC-12	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#6-211
48-036	Spring Hanger RC-2	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#6-201
48-037	Hydraulic Snubber HS-89	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#6-264
48-038	Hydraulic Snubber HS-66	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#6-247
48-039	Hydraulic Snubber HS-67	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#6-248
48-040	Hydraulic Snubber HS-68	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-249
48-041	Spring Hanger RC-4	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-203
48-042	Guide RC-3	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#6-202
48-043	Guide RC-5	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#6-204
48-044	Restraint RC-50	F-2 F-C		X			100	VT-3	NA	NA	NA	NA	SK#6-245B
48-045	Guide 16-RC-8	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#6-211
48-046	Spring Hanger RC-6	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#6-205
48-047	Spring Hanger RC-8	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#6-207
48-048	Guide RC-7	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#6-206
48-049	Guide RC-9	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#6-208
48-050	Hydraulic Snubber HS-2	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-256
48-051	Spring Hanger RC-10	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#6-209
48-052	Restraint HS-90	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#6-265
48-053	Hydraulic Snubber HS-91	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#6-266
48-054	Guide HS-92	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#6-267
48-055	Guide RC-11	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#6-210
48-056	Guide RC-13	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#6-212
48-057	Pressure Retaining Components	C7.20	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry Piping
48-058	Pressure Retaining Components	C7.21				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry Piping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LOOP WN FLG
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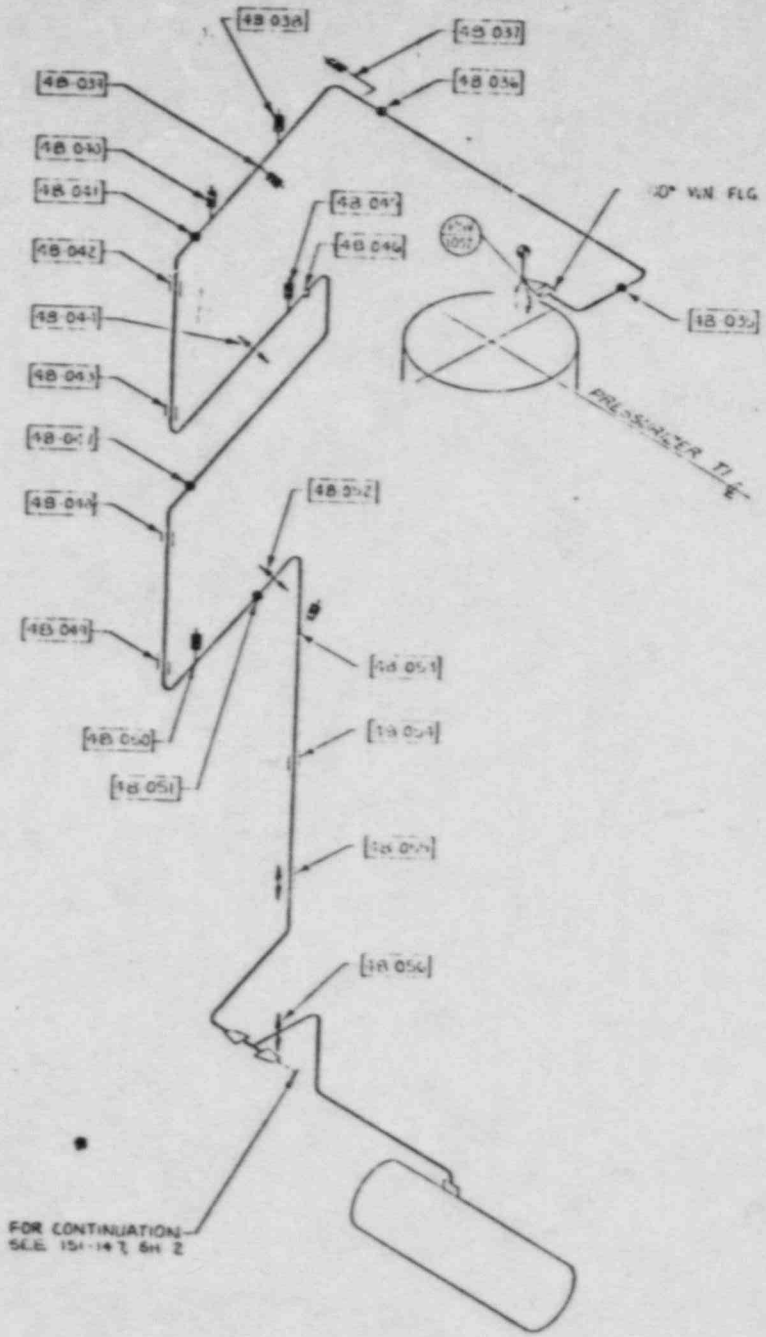
PRESSURIZER
FOR CONTINUATION
SEE 151-147, SH 1

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
PRESSURIZER SAFETY VALVE DISCHARGE
WELDS
ZONE 48
ISI - 148



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ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

PRESSURIZER SAFETY VALVE DISCHARGE
HANGERS
ZONE 48

DRAWING NO	REV
ISI-143 SH 2 OF 2	0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 49

COMPONENT DESCRIPTION

SERVICE WATER LOOP 1A OUTSIDE CONTAINMENT

REVISED 12/01/83

CLASS-3

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
49-001	Valve CV-3820	D2.10.1 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-001	Valve CV-3820	D2.10.2 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-002	Valve CV-3850	D2.10.3 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-002	Valve CV-3850	D2.10.4 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-003	Valve CV-3822	D2.10.5 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-003	Valve CV-3822	D2.10.6 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-004	Valve SW-64	D2.10.7 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-004	Valve SW-64	D2.10.8 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-005	Valve SW-22A	D2.10.9 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-005	Valve SW-22A	D2.10.10 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-006	Valve SW-1034	D2.10.11 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-006	Valve SW-1034	D2.10.12 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-007	Valve CV-3808	D2.10.13 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-007	Valve CV-3808	D2.10.14 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-008	Valve SW-11	D2.10.15 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-008	Valve SW-11	D2.10.16 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-009	Valve SW-13	D2.10.17 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-009	Valve SW-13	D2.10.18 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-010	Valve CS-1018	D2.10 19 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-010	Valve CS-1018	D2.10.20 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-011	Valve CS-2805	D2.10.21 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-011	Valve CS-2805	D2.10.22 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-012	Valve CS-2804	D2.10.23 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-012	Valve CS-2804	D2.10.24 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-013	Valve CS-2808	D2.10.25 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-013	Valve CS-2808	D2.10.26 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-014	Valve CS-1017	D2.10.27 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-014	Valve CS-1017	D2.10.28 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-015	Valve CV-3822	D2.10.29 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-015	Valve CV-3822	D2.10.30 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-016	Valve SW-64	D2.10.31 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
49-016	Valve SW-64	D2.10.32 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
49-017	Valve CV-3851	D2.10.33 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-49

COMPONENT DESCRIPTION

SERVICE WATER LOOP 1A OUTSIDE CONTAINMENT

REVISED 12/01/83

CLASS-3

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
49-017	Valve CV-3851	B2.10.34 DB			X		100	VT-2	NA	NA	NA	NA	System Hydrotest
49-018	Guide HBD-14-H1	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-1400
49-019	Rigid Hanger HBD-14-H2	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-1402
49-020	Guide HBD-14-H3	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-1403
49-021	Guide HBD-14-H5	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-1405
49-022	Guide HBD-14-H6	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-1406
49-023	Guide HBD-14-H7	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-1407
49-024	Spring Hanger HBD-14-H8	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#12-1408
49-025	Guide HBD-14-H9	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-1409
49-026	Rigid Hanger HBD-14-H10	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-1410
49-027	Spring Hanger HBD-14-H16	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#12-1416
49-028	Rigid Hanger HBD-14-H11	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-1411
49-029	Guide HBD-14-H12	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#HBD-14-H12
49-030	Rigid Hanger HBD-14-H18	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-1418
49-031	Sway Strut HBD-14-H19A	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#HBD-14-H19A
49-032	Rigid Hanger HBD-14-H26	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-1426
49-033	Rigid Hanger HBD-14-H29	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-1429
49-034	Spring Hanger HBD-14-H31	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#12-1431
49-035	Spring Hanger HBD-14-H32	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#12-1432
49-036	Guide HBD-14-H39	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-1439
49-037	Guide HBD-14-H51	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-1462
49-038	Rigid Hanger HBD-14-H23	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-1423
49-039	Guide HBD-14-H24	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-1424
49-040	Sway Strut HBD-14-H25	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-1425
49-041	Rigid Hanger HBD-14-H21	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-1421
49-042	Spring Hanger HBD-4-H1	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#12-400
49-043	Rigid Hanger HBD-4-H2	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-401
49-044	Guide HBD-4-H3	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-403
49-045	Spring Hanger HBD-4-H6	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-406
49-046	Guide HBD-4-H7	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-407
49-047	Rigid Support 13-SW-122-H3	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#APL-13-SW-122-H3
49-048	Spring Hanger HBD-4-H12	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-412
49-049	Guide HBD-4-H13	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-413

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 49

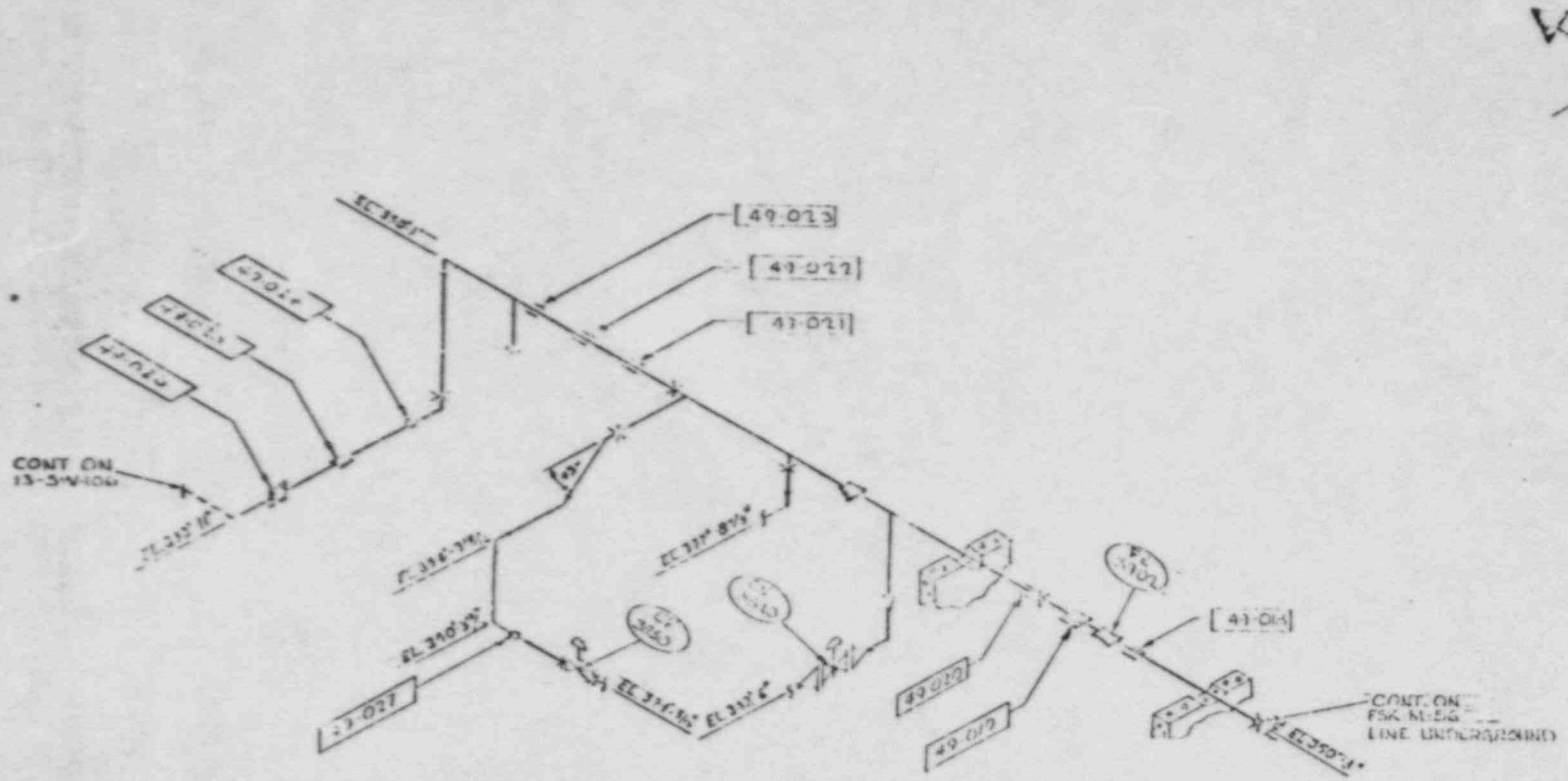
COMPONENT DESCRIPTION

SERVICE WATER LOOP 1A OUTSIDE CONTAINMENT

REVISED 12/01/83

CLASS- 3

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
49-050	Guide HBD-20-H49	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2054
49-051	Guide HBD-21-H16	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2115
49-052	Guide HBD-21-H15	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2114
49-053	Rigid Hanger HBD-21-H21	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2121
49-054	Rigid Hanger HBD-21-H20	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2119
49-055	Spring Hanger HBD-21-H19	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-2118
49-056	Guide HBD-21-H18	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-21
49-057	Guide HBD-21-H28	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2130
49-058	Guide HBD-21-H29	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2131
49-059	Spring Hanger HBD-21-H73	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-2181
49-060	Guide HBD-21-H72	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2180
49-061	Rigid Hanger 13-SW-122-H1	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#APL-13-SW-122-H1
49-062	Guide 13-SW-122-H2	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#APL-13-SW-122-H2
49-063	Rigid Hanger 13-SW-122-H1	D2.50.1 DB				X	100	VT-3	NA	NA	NA	NA	SK#APL-13-SW-122-H1



ITEM	QTY	DESCRIPTION	HEAT NO.	ASTM	GND

BILL OF MATERIAL

START-UP NO | INSULATION CLASS | THICK

REFERENCE

P&ID NO
PIPING DWG M-38, M-43
AREA NO 3 ELEV
ISOS
SPS

HANGER DWG
DWG NO
SPS CLEARANCE PLOT

NOMINAL ____ P&ID ____ %
MAXIMUM ____ P&ID ____ %

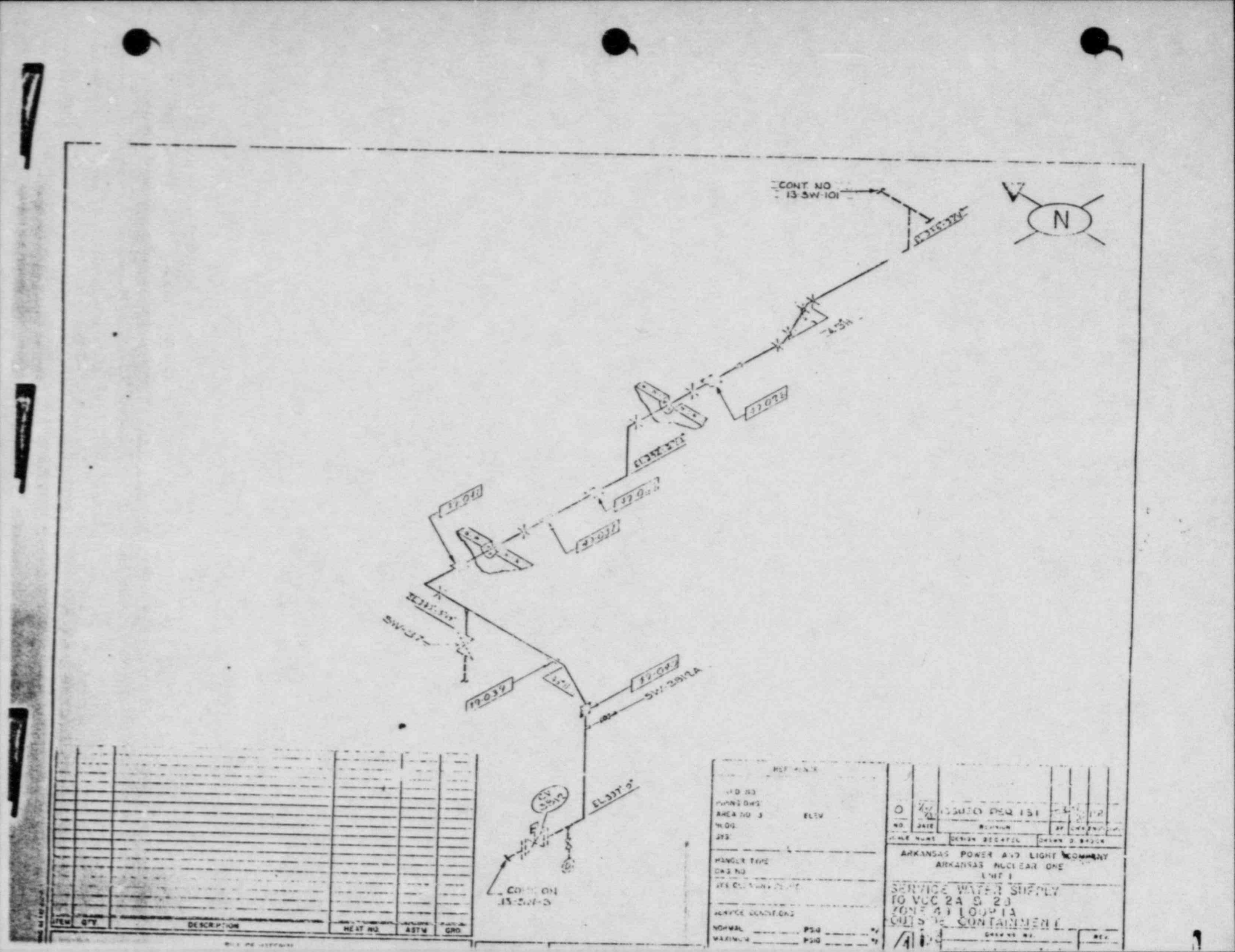
NO.	DATE	REVISION	BY

DESIGN RECORD | CHANGE NOTICE

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE 3 LOOP 1A
OUTSIDE CONTAINMENT

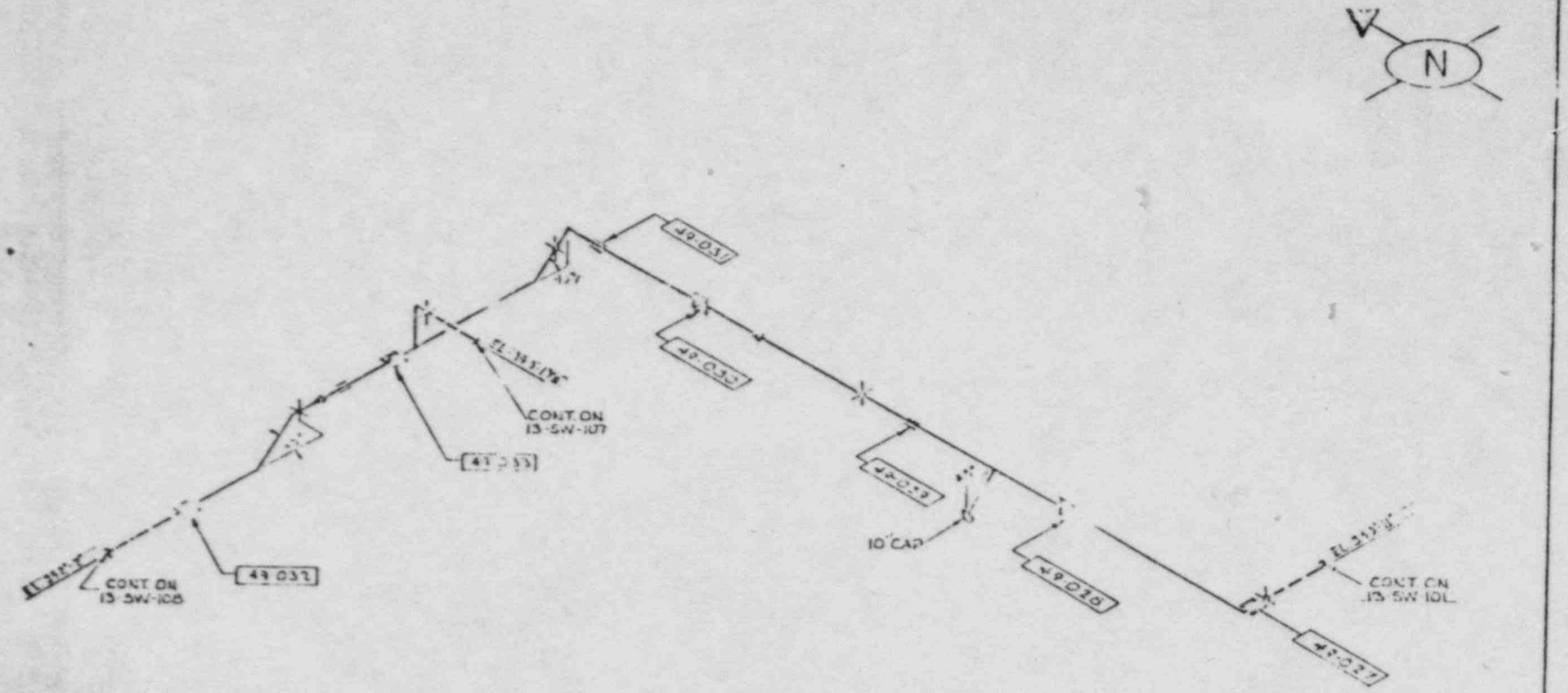
DRAWING NO
ISI-149H
SH 1 OF 10
0



ITEM	QTY	DESCRIPTION	HEAT NO.	ASTM	GRD.

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
TO VCC 2A & 2B
ZONE 41 LOOP 1A
OUTSIDE CONTAINMENT



ITEM	QTY.	DESCRIPTION	HEAT NO.	ASTM	GRD

BILL OF MATERIAL

REFERENCE

P&ID NO.
PIPING DWG.
AREA NO. & ELEV.
BLDG
SYS

HANGER TYPE
DWG NO.

SYS CLEANING REQ'MT

SERVICE CONDITIONS

NORMAL ____ PSIG ____ °F
MAXIMUM ____ PSIG ____ °F

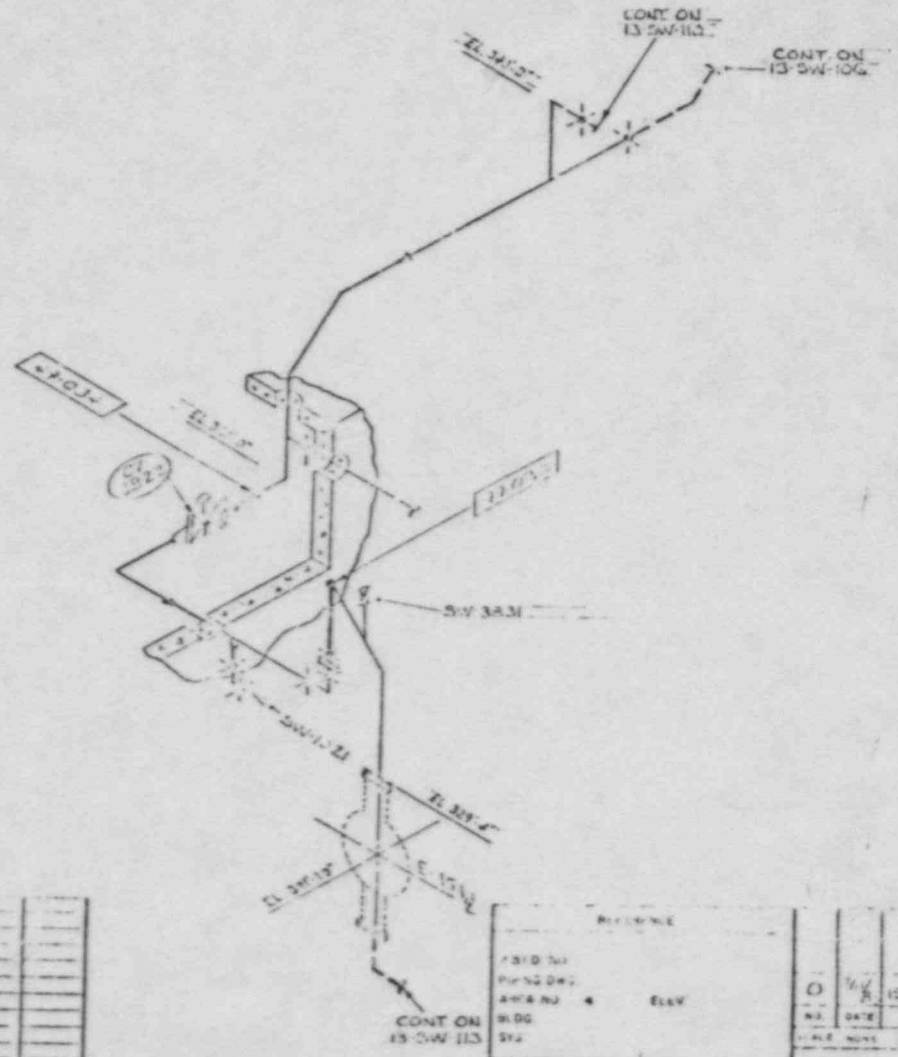
NO.	DATE	REVISION	BY	CHK'D
0	8/3/	ISSUED PER ISI		

SCALE NONE | DESIGN RECEIVED | DRAWN & TRACED

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE 49 LOOP 1A
OUTSIDE CONTAINMENT

DRAWING NO. ISI-149H REV. 0



ITEM	QTY	DESCRIPTION	HEAT NO.	ASTM	GRD

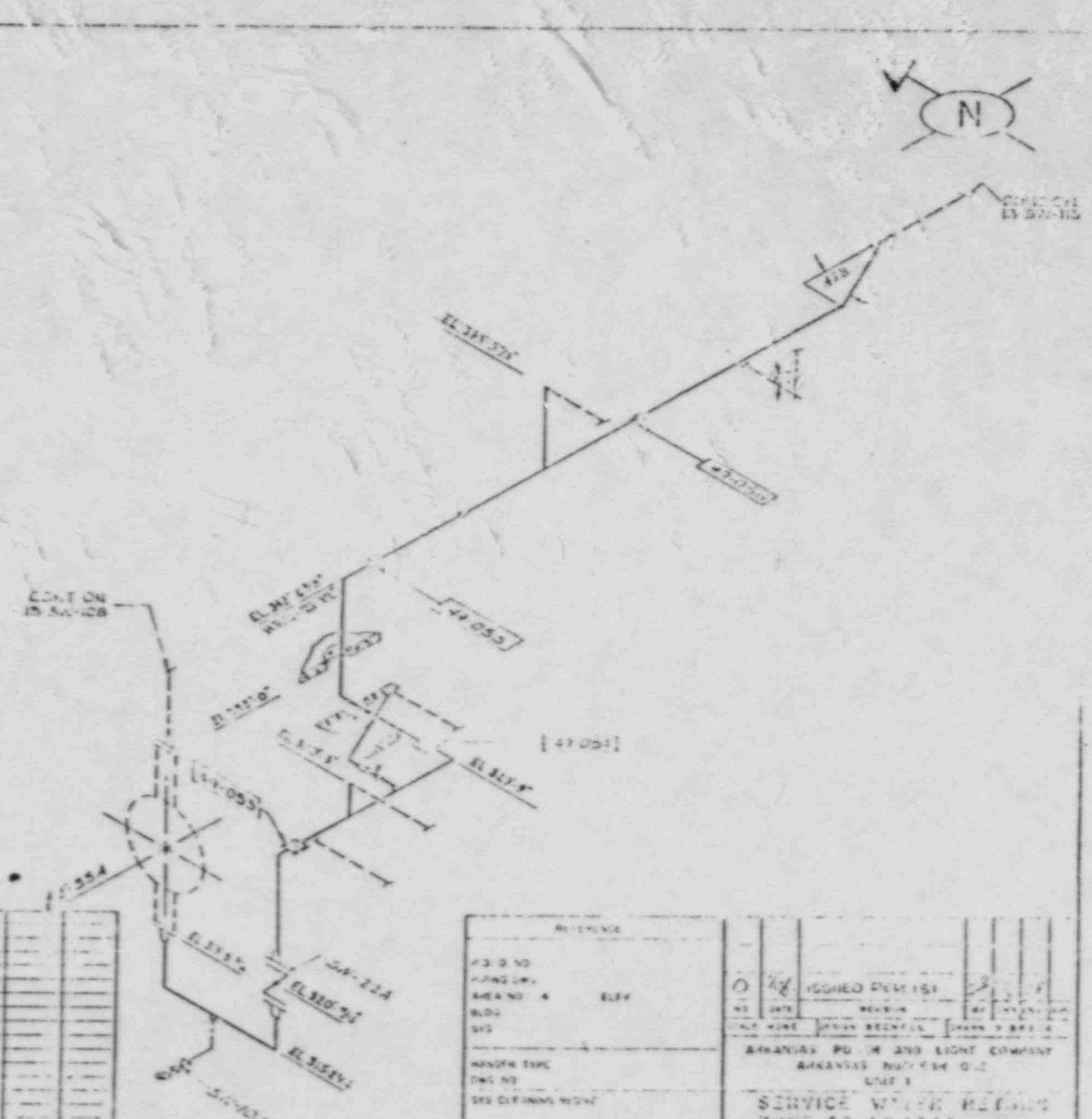
BILL OF MATERIAL

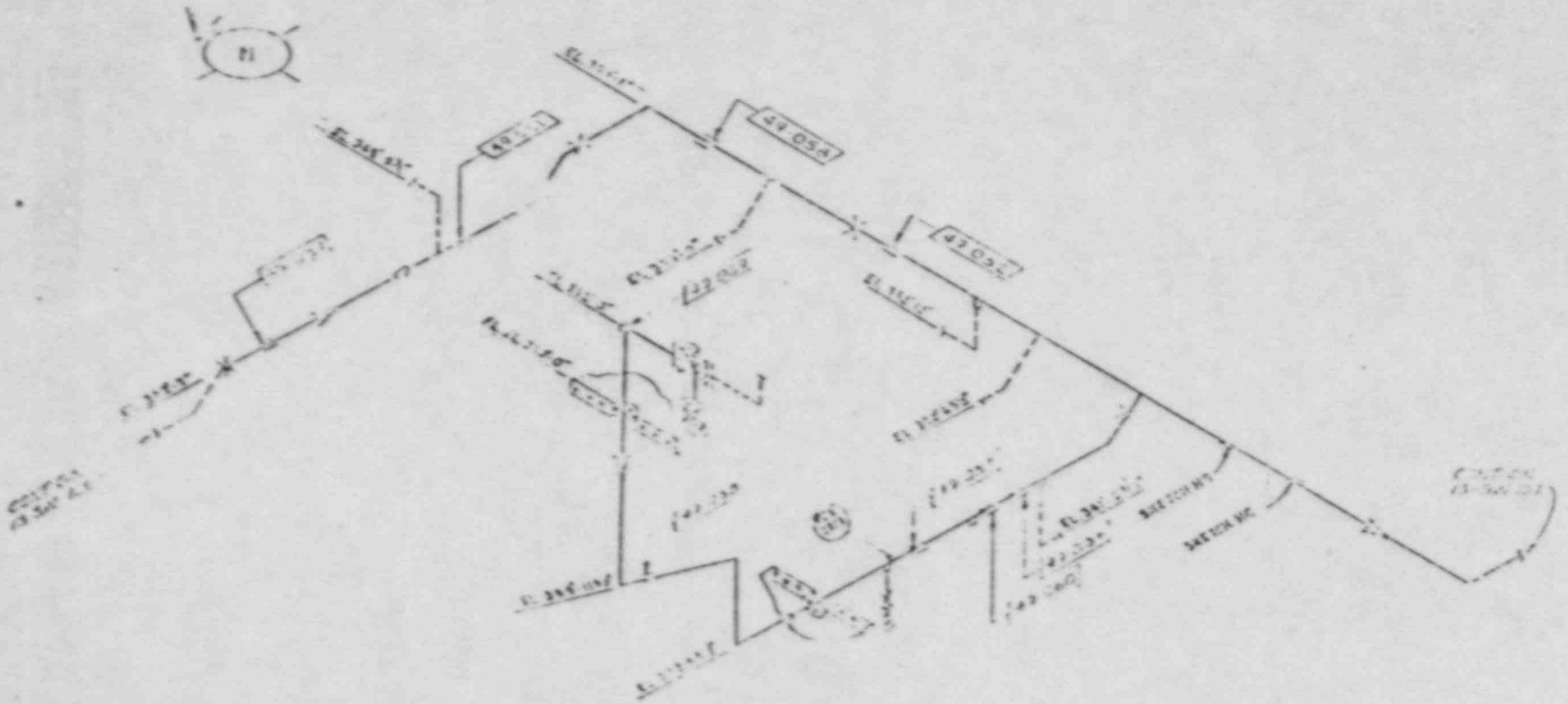
NO.	DATE	REVISION	BY
0	1/8	ISSUED PER 131	

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE 43 LOOP 1A
OUTSIDE CONTAINMENT

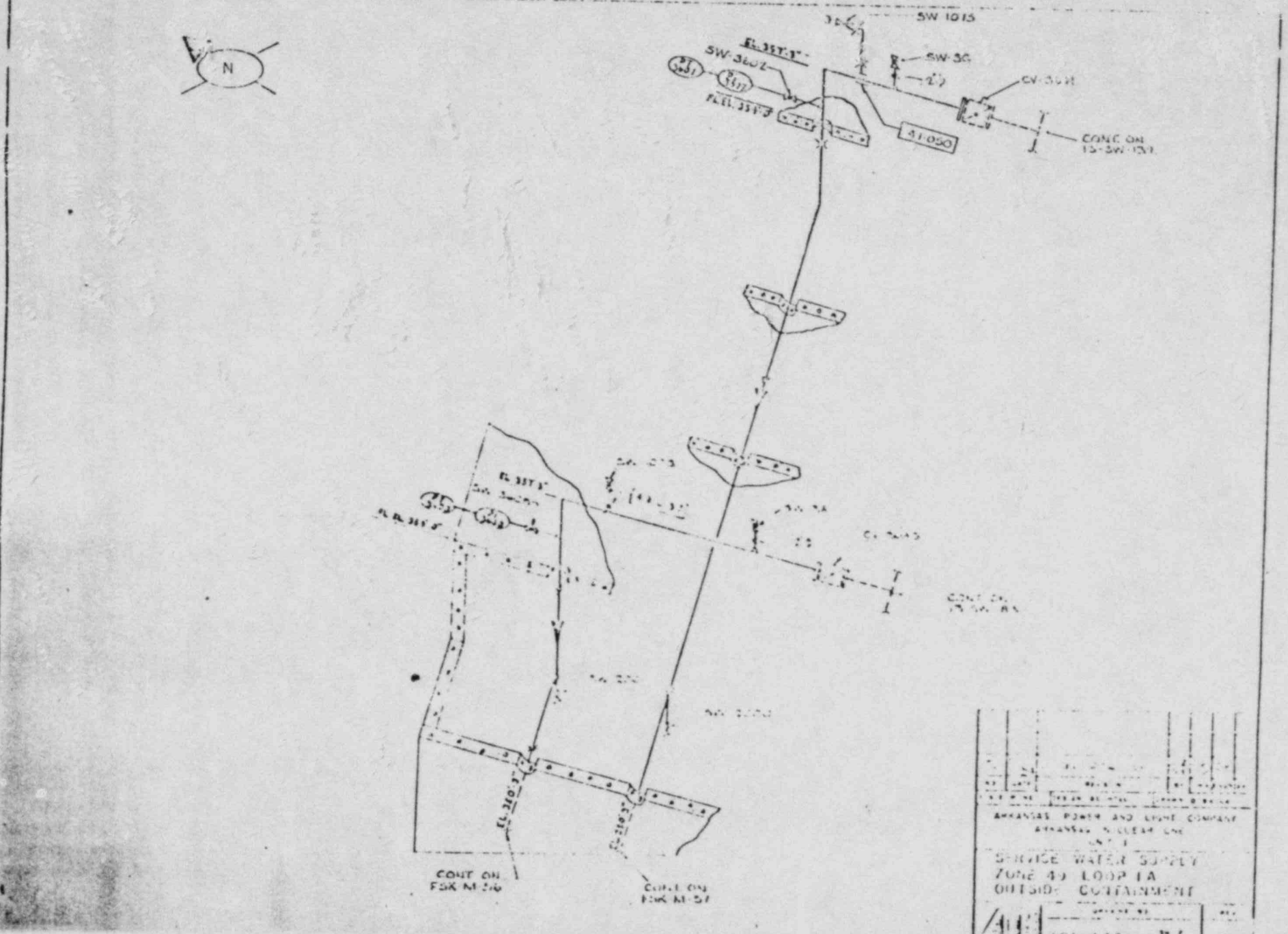
ISI-143H

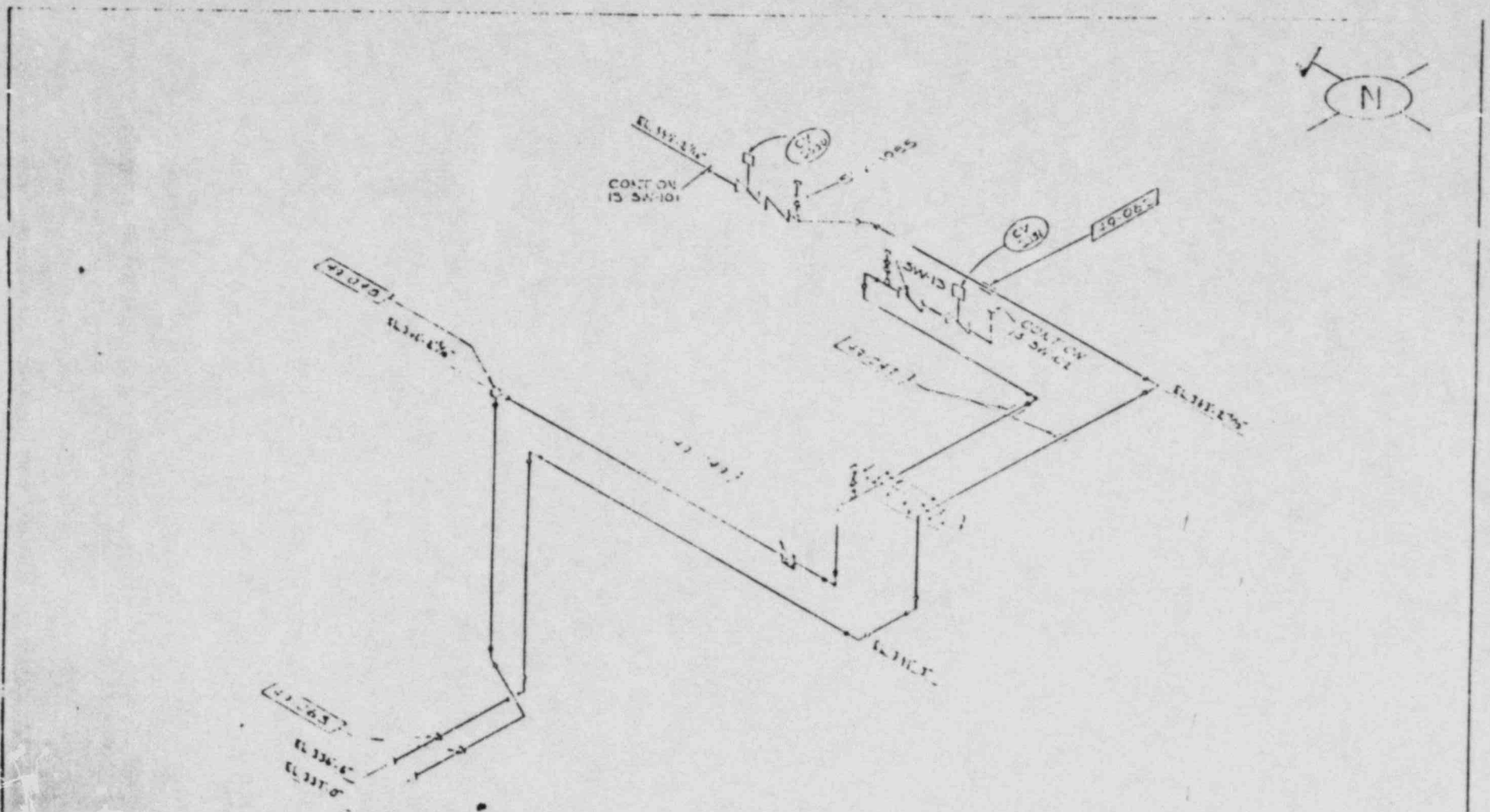




ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

STORM WATER RUNOFF
LOOP IA ZONE 43
OUTSIDE CONTAINMENT


N
SW 1015
SW-360Z
SW-36
CV-360R
41-050
CONC ON
CONC ON
CONT ON
FSK M-56
CONT ON
FSK M-57
ARKANSAS POWER AND LIGHT COMPANY
SERVICE WATER SUPPLY
ZONE 49 LOOP 1A
OUTSIDE CONTAINMENT



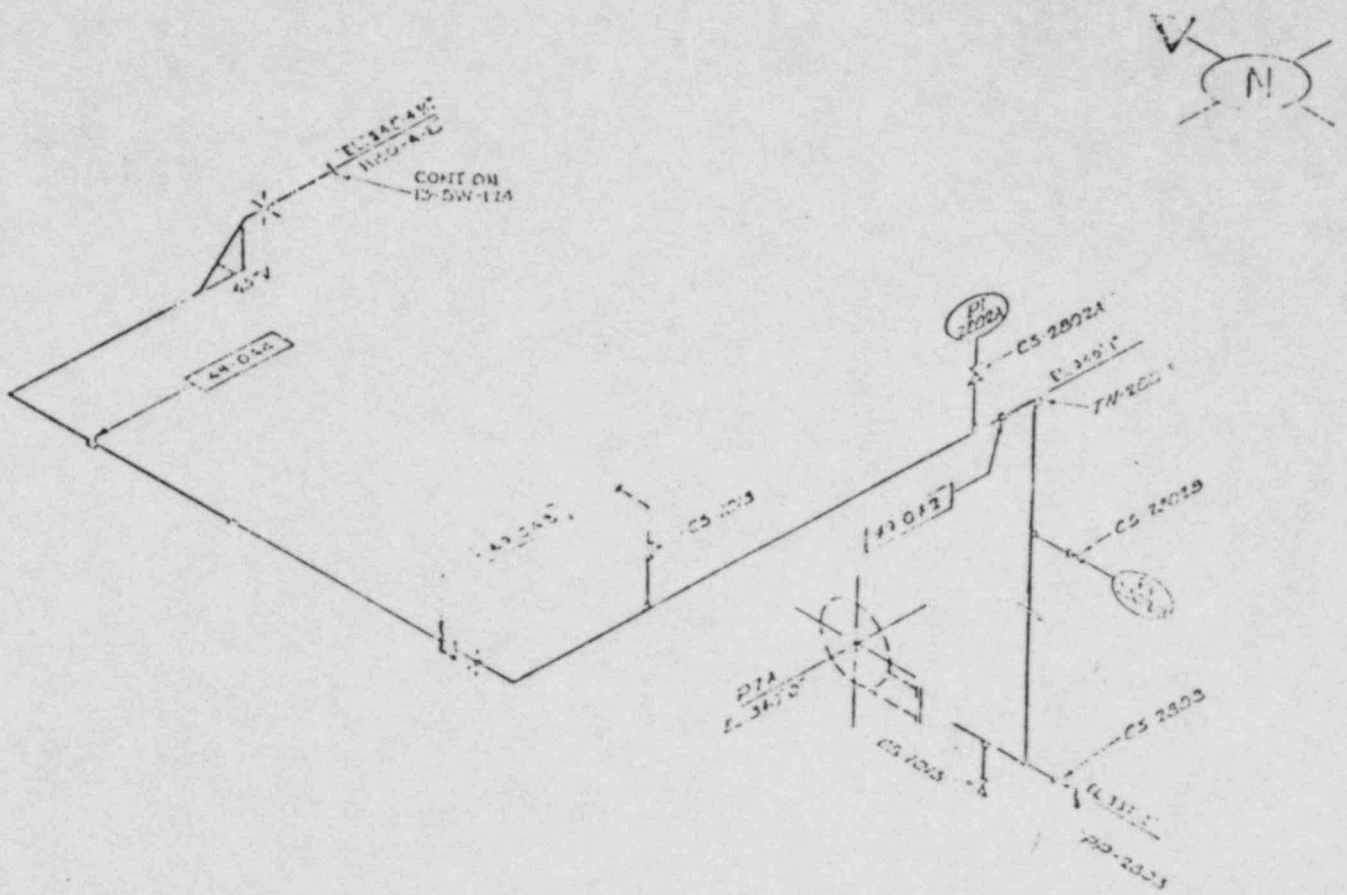
ITEM	QTY	DESCRIPTION	HEAT NO	ASTM	GRD

BILL OF MATERIAL

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
SERVICE WATER SUPPLY
EMERGENCY FEEDWATER STATION
ZONE 40 LOOP 1A
OUTSIDE CONTAINMENT

ISI-1401

0



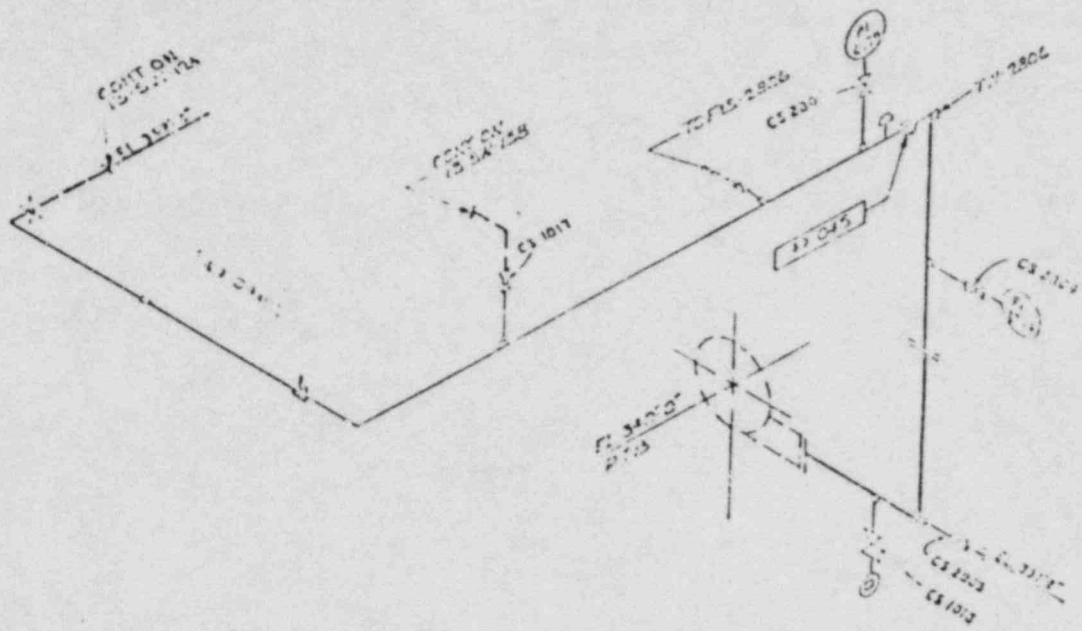
ITEM	QTY	DESCRIPTION	HEAT NO	ASTM	GRD

HANGER TYPE	
SYS CLEANING AGENT	

NO	DATE	REVISION
5		ISSUED PER NSI

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SYSTEM
ZONE 43 LOOP 1A
OUTSIDE CONTAINMENT



ITEM	QTY	DESCRIPTION	HEAT NO	ASTM	GRD

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE 19 LOOP 1A
OUTSIDE CONTAINMENT

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-50

COMPONENT DESCRIPTION

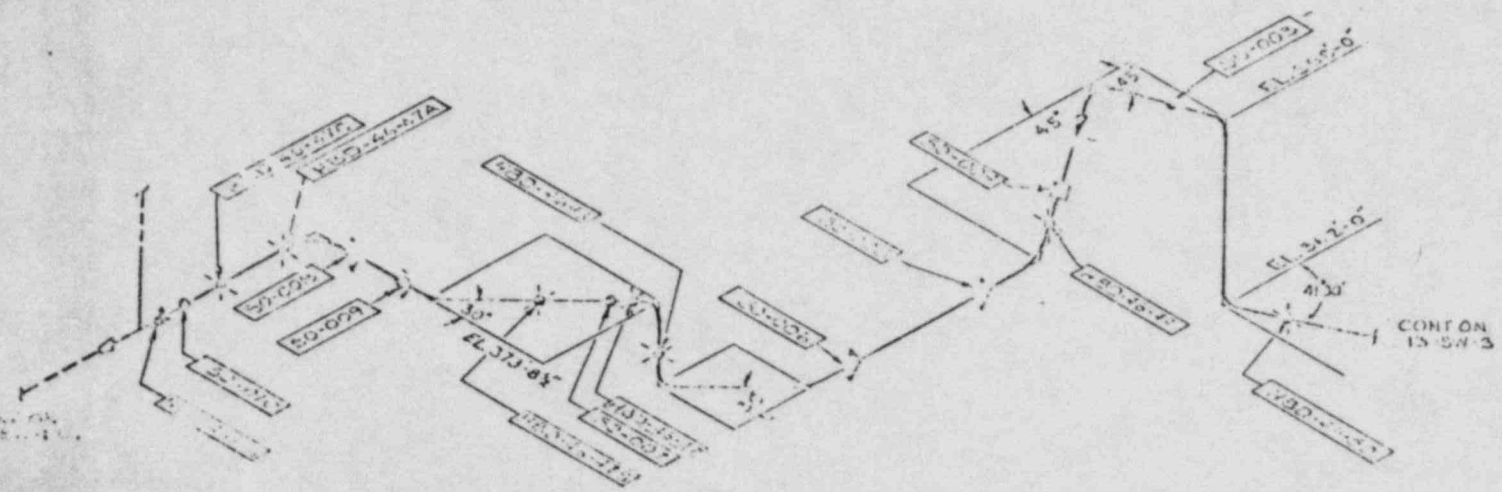
SERVICE WATER LOOP 1A INSIDE CONTAINMENT

REVISED 12/01/83

PAGE-1 of 1

CLASS-3

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
50-001	Rigid Hanger HBD-20-H45	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-2050
50-002	Rigid Hanger HBD-21-H42	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-2146
50-003	Spring Hanger HBD-20-H37	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#12-2042A
50-004	Rigid Hanger HBD-20-H38	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2043A
50-005	Guide HBD-20-H39	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2044
50-006	Guide HBD-20-H40	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2045
50-007	Spring Hanger H41	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-2046
50-008	Guide HBD-20-H43	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2048
50-009	Guide HBD-20-H42	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2042
50-010	Spring Hanger HBD-20-H44	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-2049
50-011	Rigid Hanger HBD-20-H46	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2051
50-012	Rigid Hanger HBD-20-H46	02.50.1 DB				X	100	VT-3	NA	NA	NA	NA	SK#12-2051



BILL OF MATERIAL

QTY	HEAT NO	ASTM	GRD

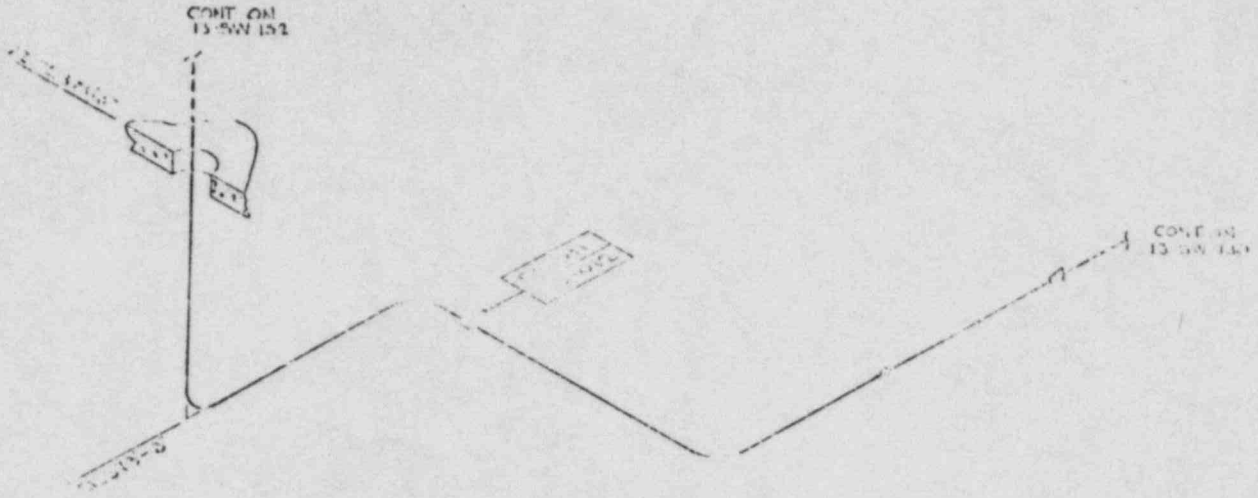
STRAIGHT NO | INSULATION CLASS | THICK

ISSUED P. 151

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY

ISI-150H | 0

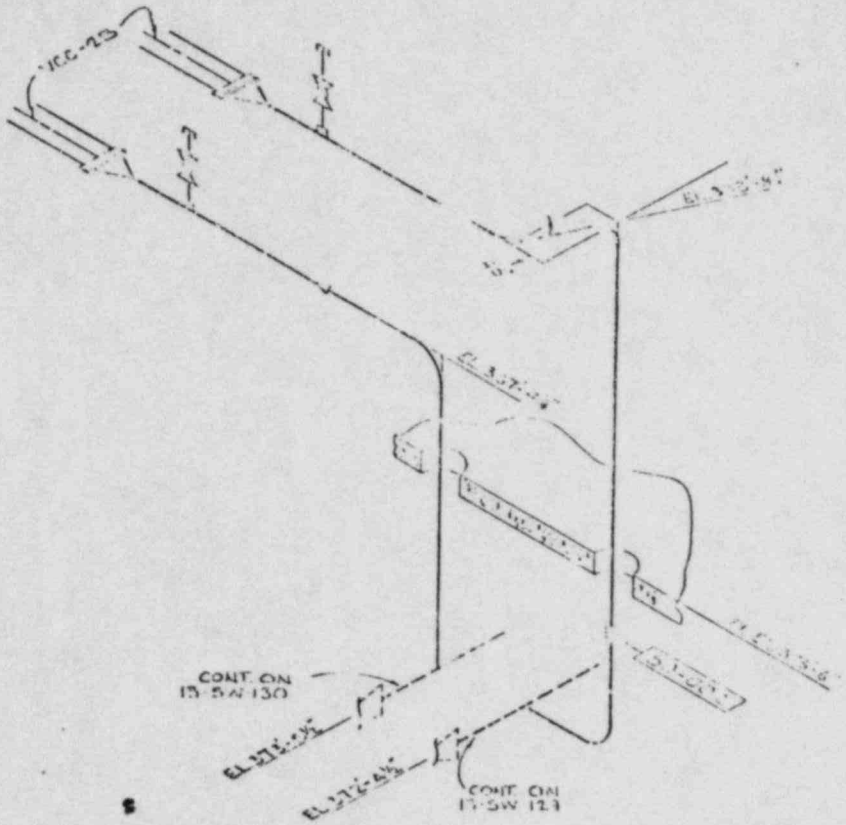


ITEM	QTY	DESCRIPTION	HEAT NO	ASTM	GRD

BILL OF MATERIAL

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

13I-150H



ITEM	QTY	DESCRIPTION	HEAT NO	ASTM	GRD

PAID BY
PIPING DWG
ARCA NO. ELEV.
BLDG
SYS
HANGER TYPE
DWG NO
NORMAL PSIG °F
MAXIMUM PSIG °F

NO	BY	REVISION	BY	CHKD	APPD
0		ISSUED PER I.S.I.			

TITLE NOTE | DESIGN NOTES | DRAWN NOTATION

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER CONNECTIONS
FOR VCC-28 ZONE 50

DRAWING NO. | REV.

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 51

COMPONENT DESCRIPTION

SERVICE WATER LOOP 2A OUTSIDE CONTAINMENT

REVISED 12/01/83

CLASS-3

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-001	Valve CV-3811	B2.10.1 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-001	Valve CV-3811	B2.10.2 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-002	Valve CV-3851	B2.10.3 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-002	Valve CV-3851	B2.10.4 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-003	Valve SW-88	B2.10.5 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-003	Valve SW-88	B2.10.6 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-004	Valve CV-3821	B2.10.7 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-004	Valve CV-3821	B2.10.8 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-005	Valve SW-2B	B2.10.9 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-005	Valve SW-2B	B2.10.10 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-006	Valve SW-1B	B2.10.11 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-006	Valve SW-1B	B2.10.12 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-007	Valve F-6B	B2.10.13 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-007	Valve F-6B	B2.10.14 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-008	Valve CV-3644	B2.10.15 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-008	Valve CV-3644	B2.10.16 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-009	Valve CV-3646	B2.10.17 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-009	Valve CV-3646	B2.10.18 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-010	Valve CV-3645	B2.10.19 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-010	Valve CV-3645	B2.10.20 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-011	Valve SW-2A	B2.10.21 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-011	Valve SW-2A	B2.10.22 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-012	Valve SW-1A	B2.10.23 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-012	Valve SW-1A	B2.10.24 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-013	Valve F-6A	B2.10.25 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-013	Valve F-6A	B2.10.26 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-014	Valve F-6C	B2.10.27 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-014	Valve F-6C	B2.10.28 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-015	Valve SW-1C	B2.10.29 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-015	Valve SW-1C	B2.10.30 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-016	Valve SW-2C	B2.10.31 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-016	Valve SW-2C	B2.10.32 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-017	Valve CV-3641	B2.10.33 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-51

COMPONENT DESCRIPTION

SERVICE WATER LOOP 2A OUTSIDE CONTAINMENT

REVISED 12/01/83

CLASS-3

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-017	Valve CV-3641	D2.10.34 DB			X		100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-018	Valve CV-3642	D2.10.35 DB	X	X	X		100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-018	Valve CV-3642	D2.10.36 DB			X		100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-019	Valve CV-3640	D2.10.37 DB	X	X	X		100	VT-2	NA	NA	NA	NA	System Leakage Test
B1-019	Valve CV-3640	D2.10.38 DB			X		100	VT-2	NA	NA	NA	NA	System Hydrotest
B1-020	Guide HBD-2-H1	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-200
B1-021	Guide HBD-2-H4	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-203
B1-022	Rigid Hanger HBD-2-H1		X				100		NA	NA	NA	NA	SK#
B1-023	Rigid Hanger HBD-20-H51		X				100		NA	NA	NA	NA	SK#
B1-024	Guide HBD-2-H2	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-201
B1-025	Guide HBD-2-H3	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-202
B1-026	Rigid Hanger HBD-20-H1	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-2000
B1-027	Rigid Hanger HBD-20-H2	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2001
B1-028	Rigid Hanger HBD-20-H3	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2002
B1-029	Guide HBD-20-H4	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2002
B1-030	Rigid Hanger HBD-20-H5	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2004
B1-031	Guide HBD-20-H6	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2005
B1-032	Rigid Hanger HBD-20-H7	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2006
B1-033	Rigid Hanger HBD-20-H8	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2007
B1-034	Guide HBD-20-H9	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2008
B1-035	Sway Strut HBD-20-H9A	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#HBD-20-H9A
B1-036	Rigid Hanger HBD-20-H10	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2009
B1-037	Sway Strut HBD-20-10A	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#HBD-20-H10A
B1-038	Guide HBD-21-H64	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2168
B1-039	Guide HBD-21-H63	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2167
B1-040	Guide HBD-20-H63	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2077
B1-041	Guide HBD-20-H16	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2015
B1-042	Rigid Hanger HBD-20-H11	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2010
B1-043	Guide HBD-20-H1	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#HBD-20-APL-H1
B1-044	Rigid Hanger HBD-14-H39	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-
B1-045	Rigid Hanger HBD-14-H14	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-1414
B1-046	Rigid Hanger HBD-14-H15	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-1415
B1-047	Spring Hanger HBD-14-H16	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-1416

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 51

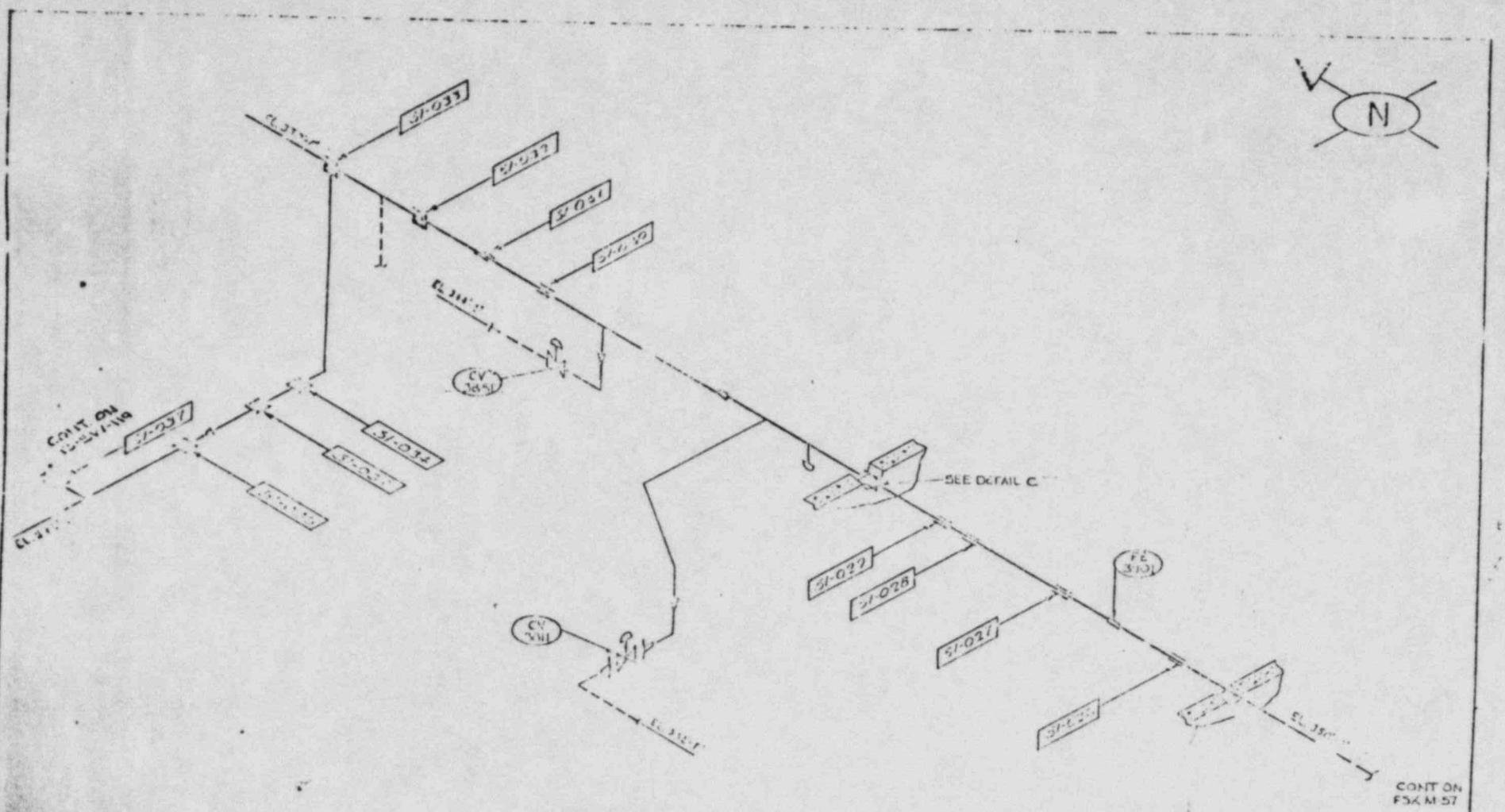
COMPONENT DESCRIPTION

SERVICE WATER LOOP 2A OUTSIDE CONTAINMENT

REVISED 12/01/83

CLASS- 3

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B1-048	Sway Strut HBD-14-H17	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-1417
B1-049	Guide HBD-20-H30	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2032
B1-050	Rigid Hanger HBD-20-H12A	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#HBD-20-H12A
B1-051	Guide HBD-20-H12				X		100		NA	NA	NA	NA	SK#
B1-052	Rigid Hanger HBD-20-H13	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2012
B1-053	Guide HBD-20-H14	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2013
B1-054	Rigid Hanger HBD-20-H15	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2014
B1-055	Rigid Hanger HBD-20-H30A	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2034



QTY	DESCRIPTION	HEAT NO	ASTM	GRD

BILL OF MATERIAL

PREFERENCE	
PIPING	
SPEC NO 3	ESV
BLDG	
SYS	
HANGER TYPE	
DWG NO	
SEE CLEANING NOTE	
NORMAL	PSIG
MAXIMUM	PSIG

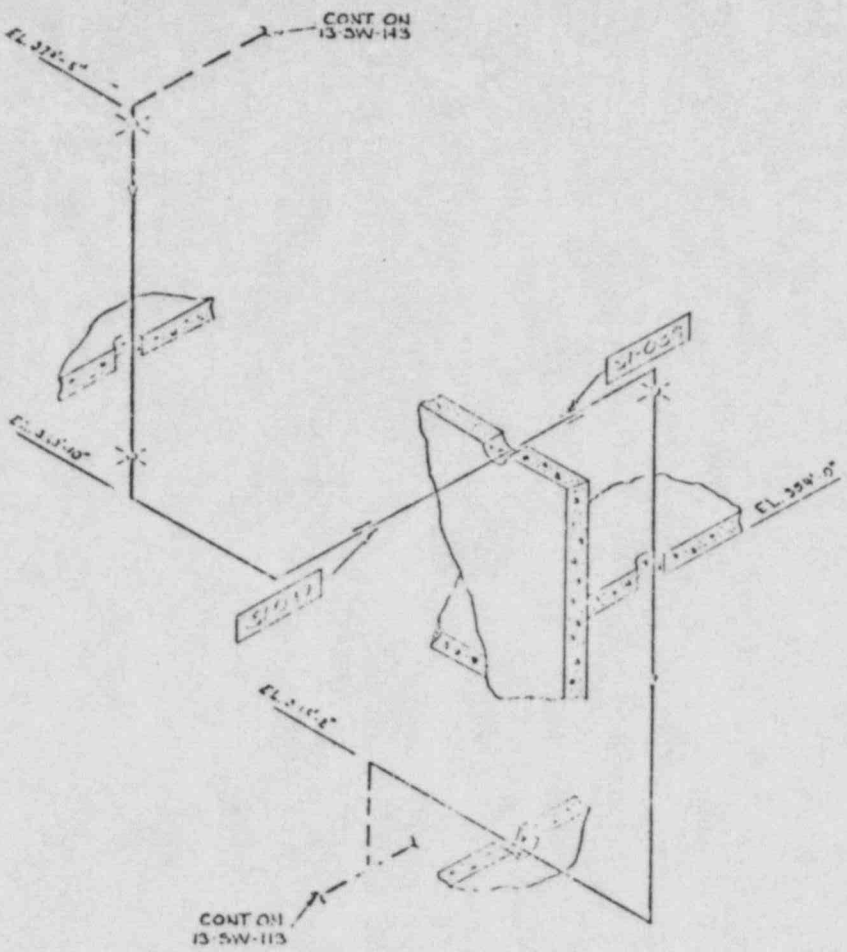
NO	DATE	REVISION	BY

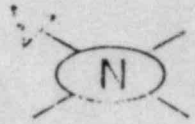
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE 51 LOOP 2A
INSIDE CONTAINMENT

START-UP NO	INSULATION CLASS	THICK

ISI-151H | 0





ITEM QTY	DESCRIPTION	HEAT NO	ASME	GRD
BILL OF MATERIAL				

STARTUP NO | INSULATION CLASS | THICK

REFERENCE
PLAN NO
PIPING DWG
ANCA NO 6 REV
P.D.J.
SPS

HANGER TYPE 1
DWG NO

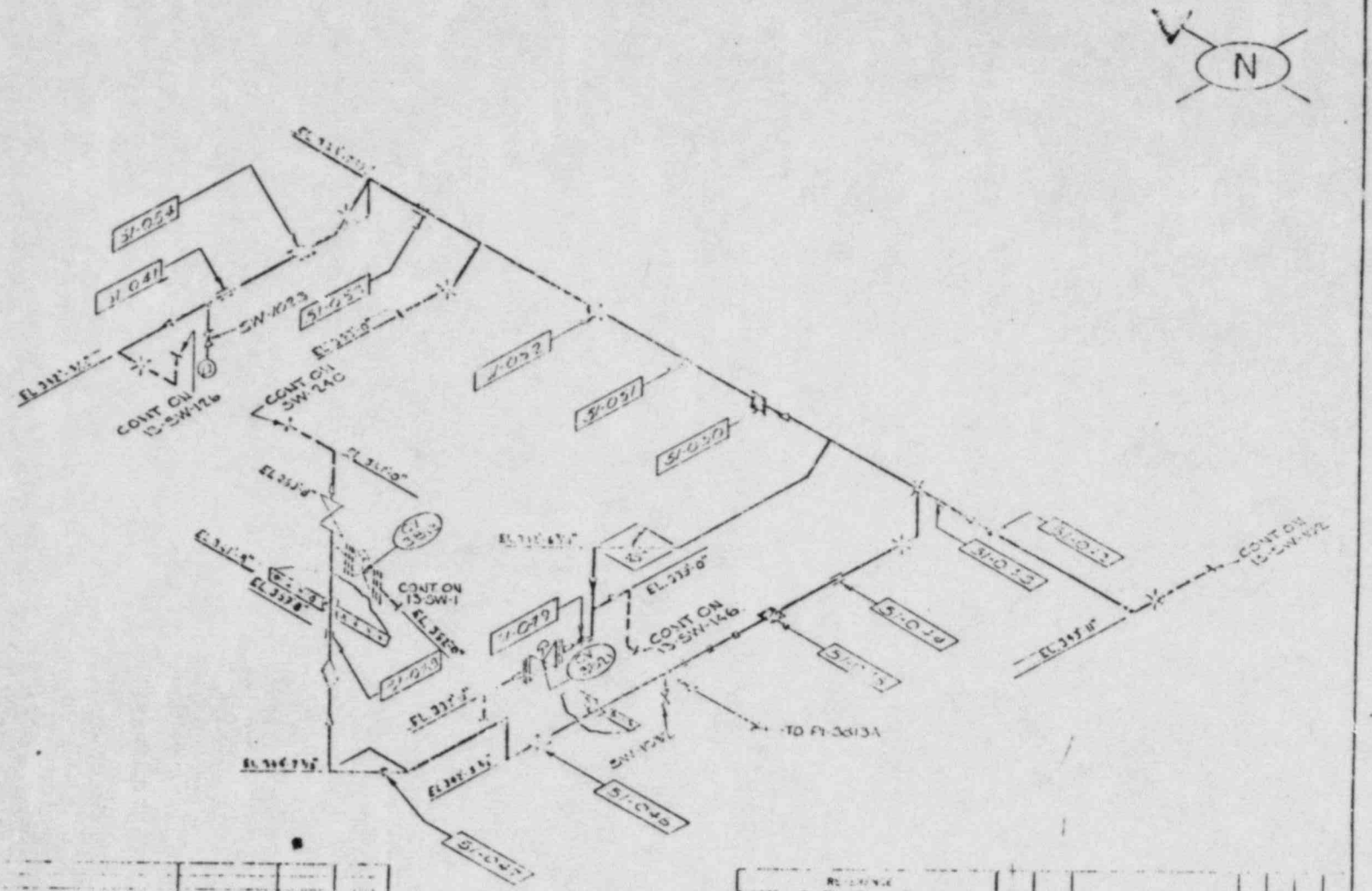
DESIGN CONDITIONS
PSIG °F
PSIG °F

NO	DATE	REVISION	BY	CHK'D	APP'D
5	4/82	ISSUED PER TSI			

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE 51 LOOP 2A
INSIDE CONTAINMENT

DRAWING NO. TSI-151H | REV. 0



NO.	DATE	DESCRIPTION	HEAT NO.	ASTM	GRD

BILL OF MATERIAL

STARTUP NO | INSPECTION CLASS: | THICK

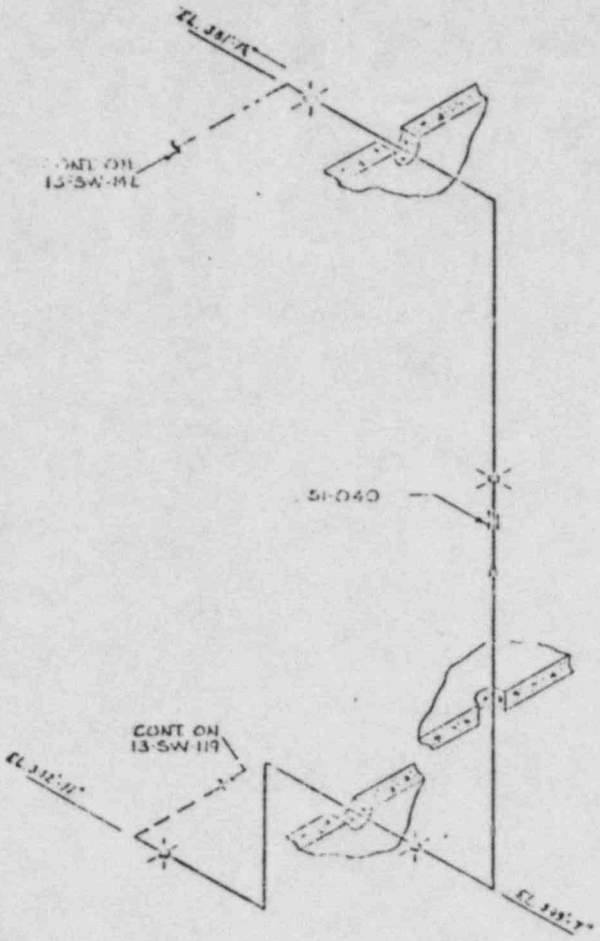
HANGER TYPE
LINE NO
SYS CLEANING POINT

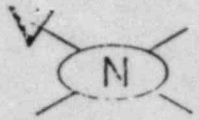
0		ISSUED PER TSI	
NO.	DATE	REVISION	BY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE SI LOOP 2A
INSIDE CONTAINMENT

ISI-151 H | 0





ITEM	QTY	DESCRIPTION	HEAT NO	ASTM	GRD

BILL OF MATERIAL

REFERENCE			
P&ID NO			
PIPING DWG.			
AREA NO 4	ELEV		
BLDG			
SYS			
HANGER TYPES			
DWG NO			
SPEC CLASS/GRADE			
SERVICE CONDITIONS			
NORMAL	PSIG	°F	
MAXIMUM	PSIG	°F	

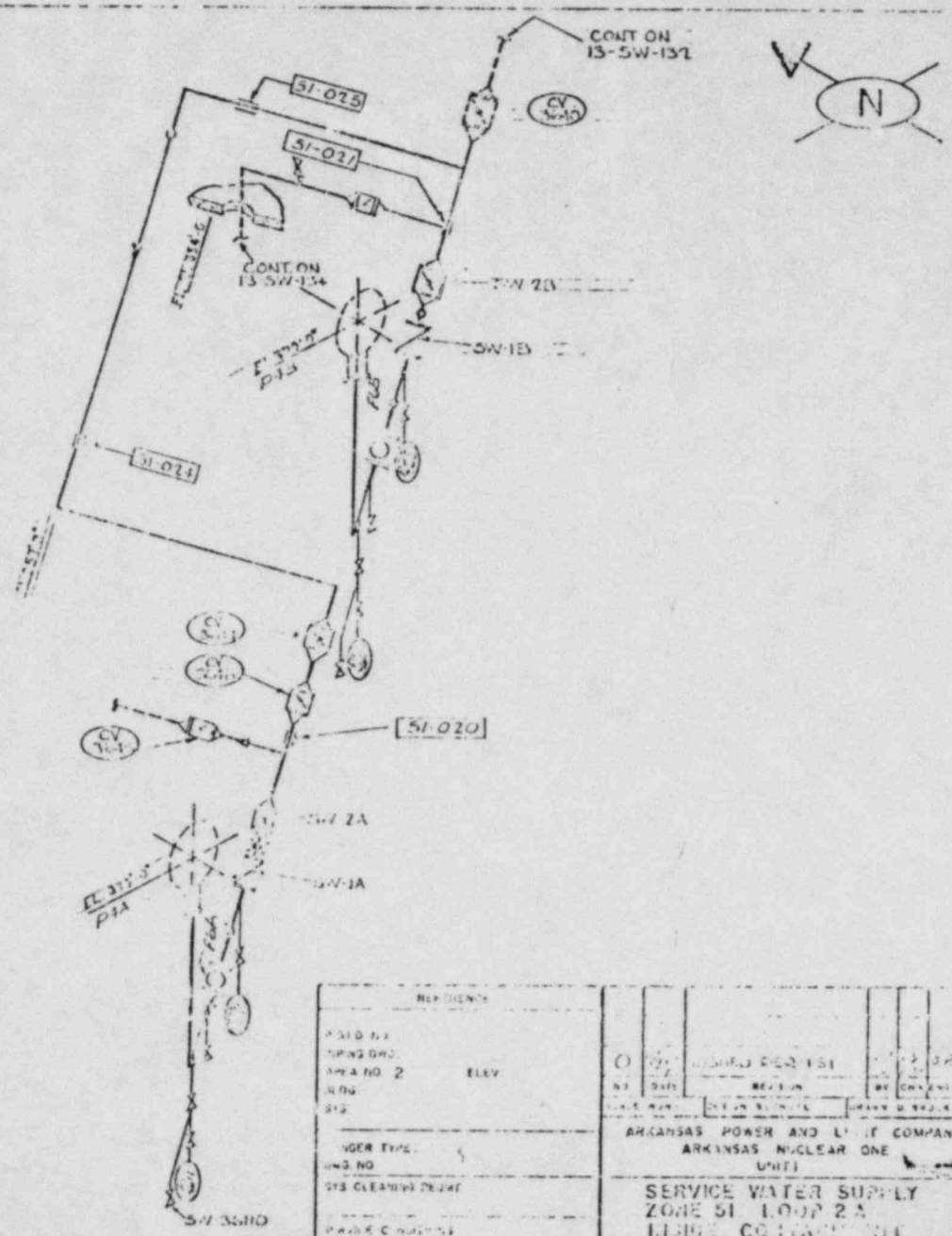
NO	DATE	REVISION	BY	CHK'D	APPD
0	7/1	ISSUED PER ISI			

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE 51 LOOP 2A
INSIDE CONTAINMENT

DRAWING NO. 1SI-151H REV 0

STARTUP NO | INSULATION CLASS | THICK.



QTY	DESCRIPTION	PIPE NO.	ASTM	GRD

BILL OF MATERIAL

STARTUP NO. | INSULATION CLASS: THICK:

REFERENCE

P&ID NO.
PIPING DWG.
AREA NO. 2 ELEV.
ROOM
SYS.

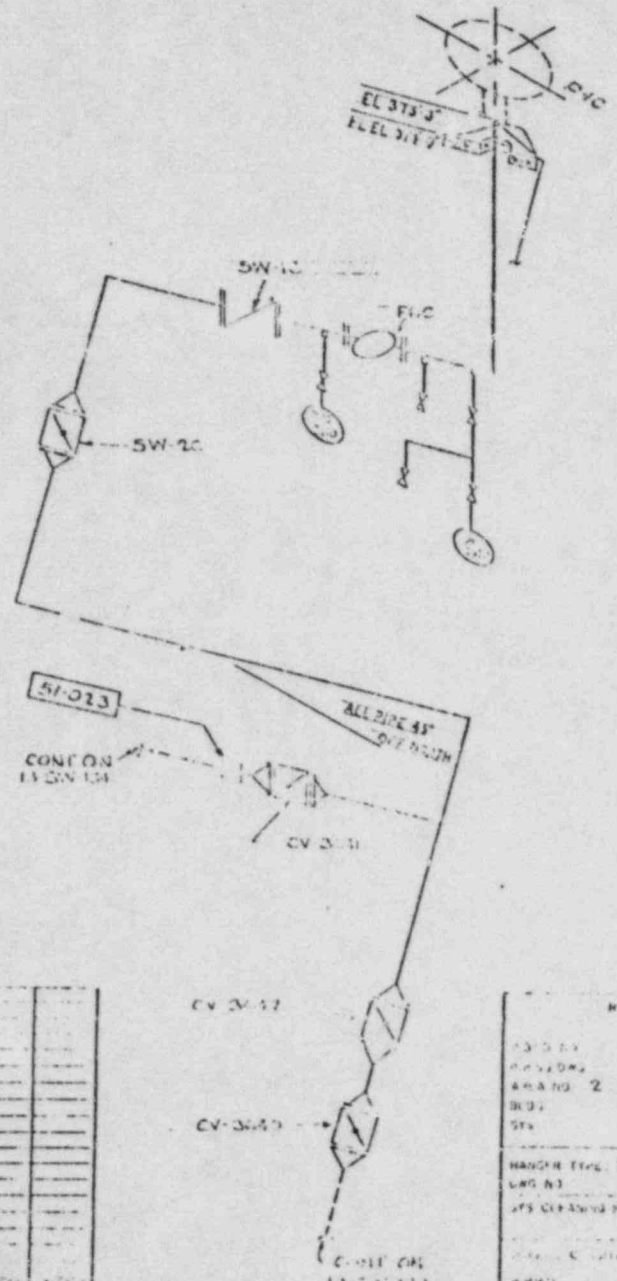
HANGER TYPE:
DWG. NO.
SYS CLEANING DETAIL
PAINT SPECIFICATION
INSIDE: PIPE %
OUTSIDE: PIPE %

NO	DATE	REVISION	BY	CHK'D
0		ISSUED FOR IST		

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE 51 LOOP 2A
LEDGE CONTAINMENT

1SI-151H | 0



BILL OF MATERIAL

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE 51 LOOP 2A
1500 CENTER LINE

1SI-151H

0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-52

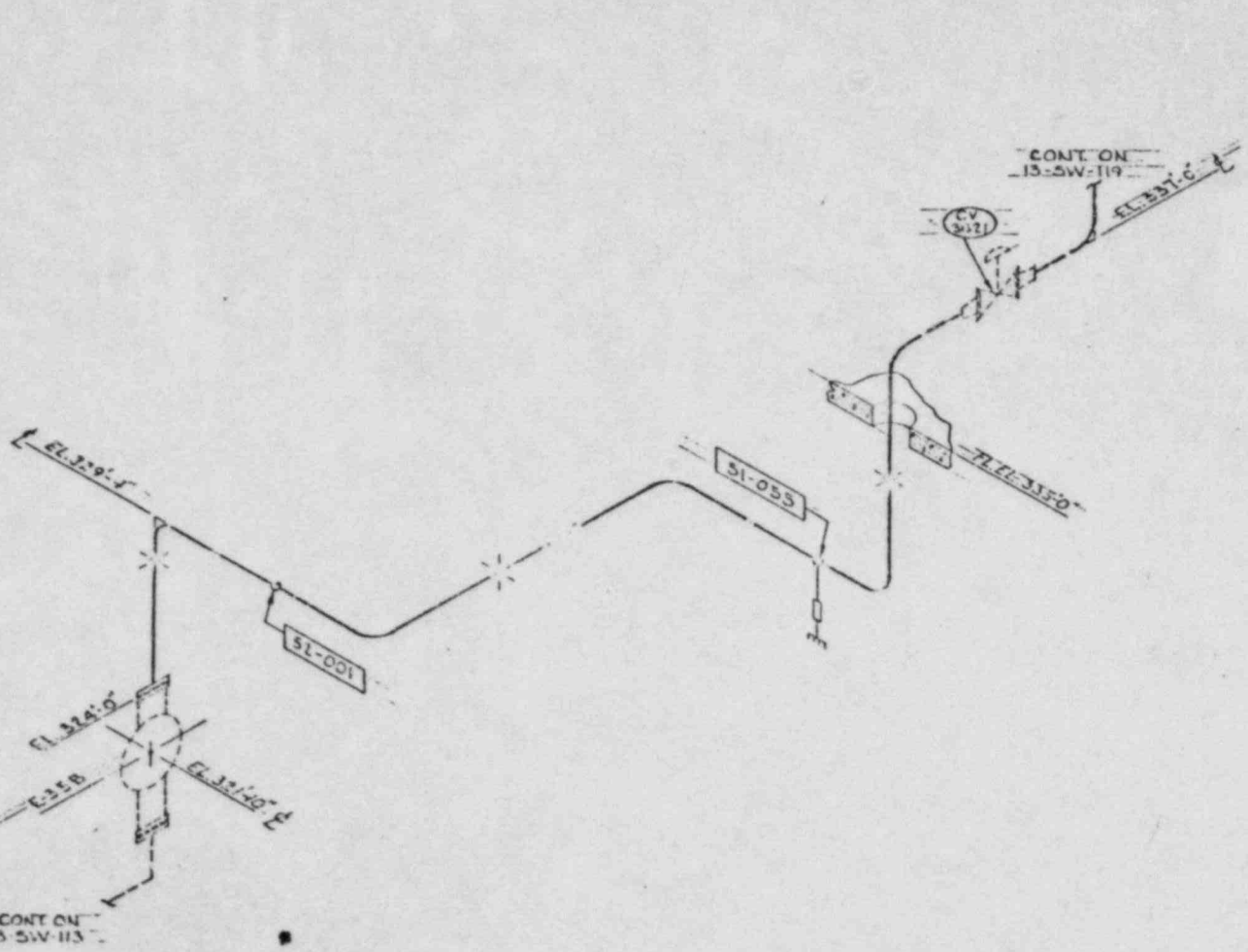
COMPONENT DESCRIPTION

SERVICE WATER LOOP 2A INSIDE CONTAINMENT

REVISED 12/01/83

CLASS-3

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
52-001	Spring Hanger HBD-20-H31	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#12-2035
52-002	Guide HBD-21-H46	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-2150
52-003	Guide HBD-21-H47	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-2151
52-004	Guide HBD-21-H48	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2152
52-005	Guide HBD-21-H49	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2153
52-006	Spring Hanger HBD-21-H45	F-4	F-C		X			100	VT-4	NA	NA	NA	NA	SK#12-2149
52-007	Spring Hanger HBD-14-H40	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#12-1440
52-008	Rigid Hanger HBD-14-H41	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-1441
52-009	Rigid Hanger HBD-14-H42	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-1442
52-010	Spring Hanger HBD-14-H43	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-1443
52-011	Rigid Hanger HBD-14-H44	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-1444
52-012	Guide HBD-14-H45	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-1445
52-013	Rigid Hanger HBD-14-H46	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-1446
52-014	Rigid Hanger HBD-14-H47	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-1447
52-015	Rigid Hanger HBD-14-H48	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-1448
52-016	Rigid Hanger HBD-21-H52	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-2156
52-017	Rigid Hanger HBD-21-H53	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2157
52-018	Rigid Hanger HBD-21-H54	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2158
52-019	Rigid Hanger HBD-21-H54	D2.20.1	DB			X		100	VT-3	NA	NA	NA	NA	SK#12-2158
52-020	Valve CV-3813	D2.10.1	DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
52-020	Valve CV-3813	D2.10.2	DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest



ITEM	QTY.	DESCRIPTION	HEAT NO.	ASTM	GRD

BILL OF MATERIAL

STARTUP NO. | INSULATION CLASS | THICK

REFERENCE

P&ID NO.
PIPING DWG.
AREA NO. ELEV.
BLDG.
SYS.

HANGER TYPE
DWG NO.

SEA DESIGNING PLANT

SERVICE CONDITIONS

NORMAL ____ P=0 ____ °F
MAXIMUM ____ P=0 ____ °F

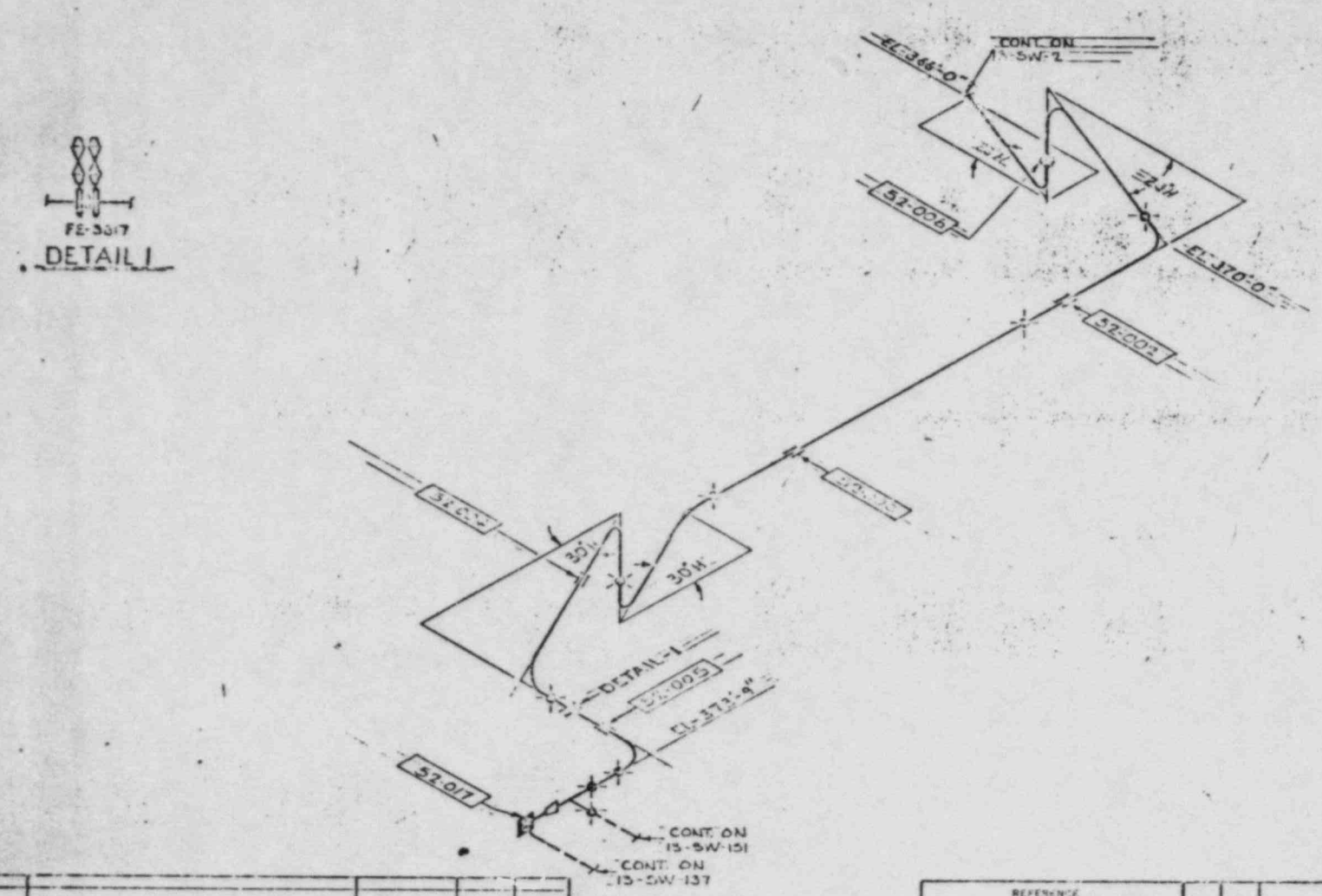
NO	DATE	REVISION	BY	CHKD	APPD
0	11/16/	ISSUED FOR ISI			

TITLE NOTES | DESIGN NOTES | DRAWING NOTES

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY TO E-35B
ZONE 52

DRAWING NO. 1SI-152H | REV. 0



ITEM	QTY.	DESCRIPTION	HEAT NO.	ASTM	GRD.

BILL OF MATERIAL

STARTUP NO. | INSULATION CLASS | THICK

REFERENCE	
P&ID NO.	
PIPING DWG.	
AREA NO.	ELEV.
BLDG.	
SYS.	
HANGER TYPE:	
DWG. NO.	
SYS. CLEANING REQMT.	
NORMAL ____ PSIG ____ °F	
MAXIMUM ____ PSIG ____ °F	

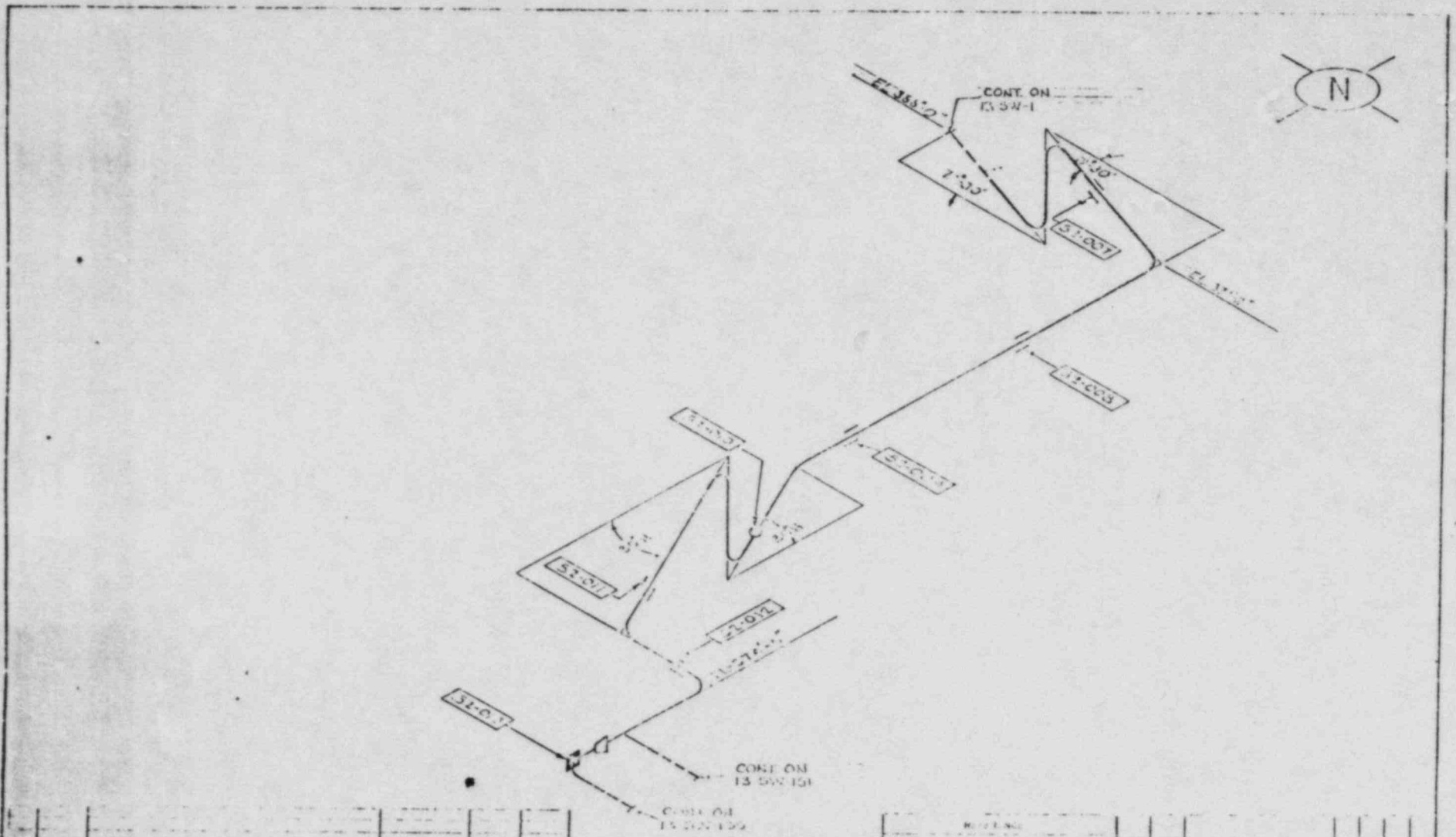
NO.	DATE	REVISION	BY	CHK'D
0	9/1	ISSUED FOR BID		

SCALE: NONE | DESIGN RECEIVED | DRAWING RECEIVED

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER TO VCC'S &
ZONE 52

1SI-1521 | 0



ITEM	QTY	DESCRIPTION	HEAT NO	ASTM	GHD

PIPING DWG	
AREA NO.	ELEV.
BLDG.	
SYS.	
HANGER TYPE	
DWG. NO.	
SYS. CLEANING REQMT.	
SERVICE CONDITIONS	
NORMAL	PSIG °F
MAXIMUM	PSIG °F

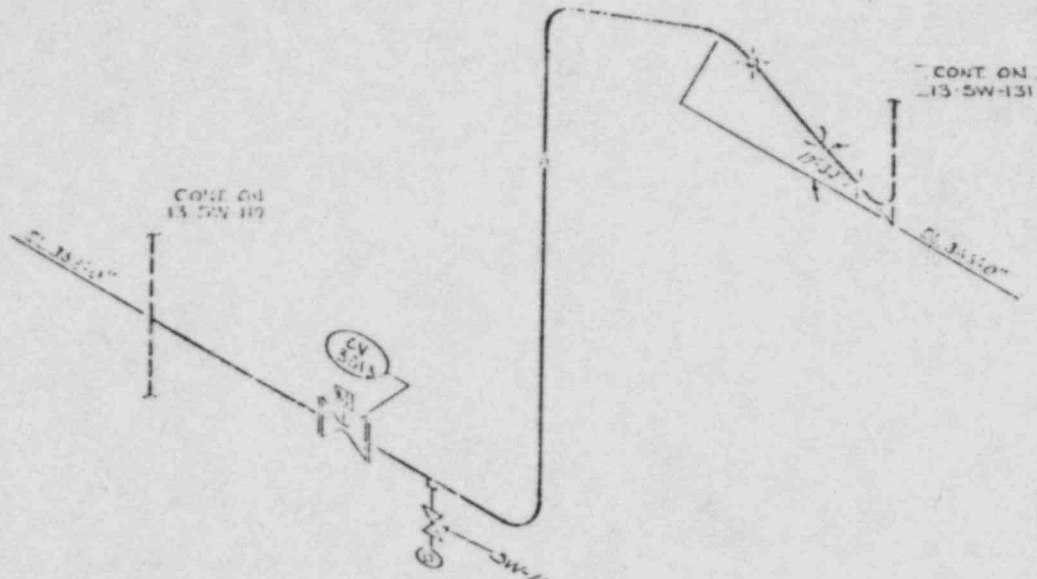
0		ISSUED PER ISI	
NO.	DATE	REVISION	BY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER TO V3000 SD
ZONE 52

ISI-152H

0



ITEM	QTY.	DESCRIPTION	HEAT NO.	ASME	GRID

REFERENCE

P&ID NO.
PIPING DWG.
AREA NO. ELEV.
MLDG.
SYS.

HANGER TYPE:
DWG. NO.
SYS. OPERATING PRESS.
SERVICE
NORMAL ____ PSIG ____ °F
MAXIMUM ____ PSIG ____ °F

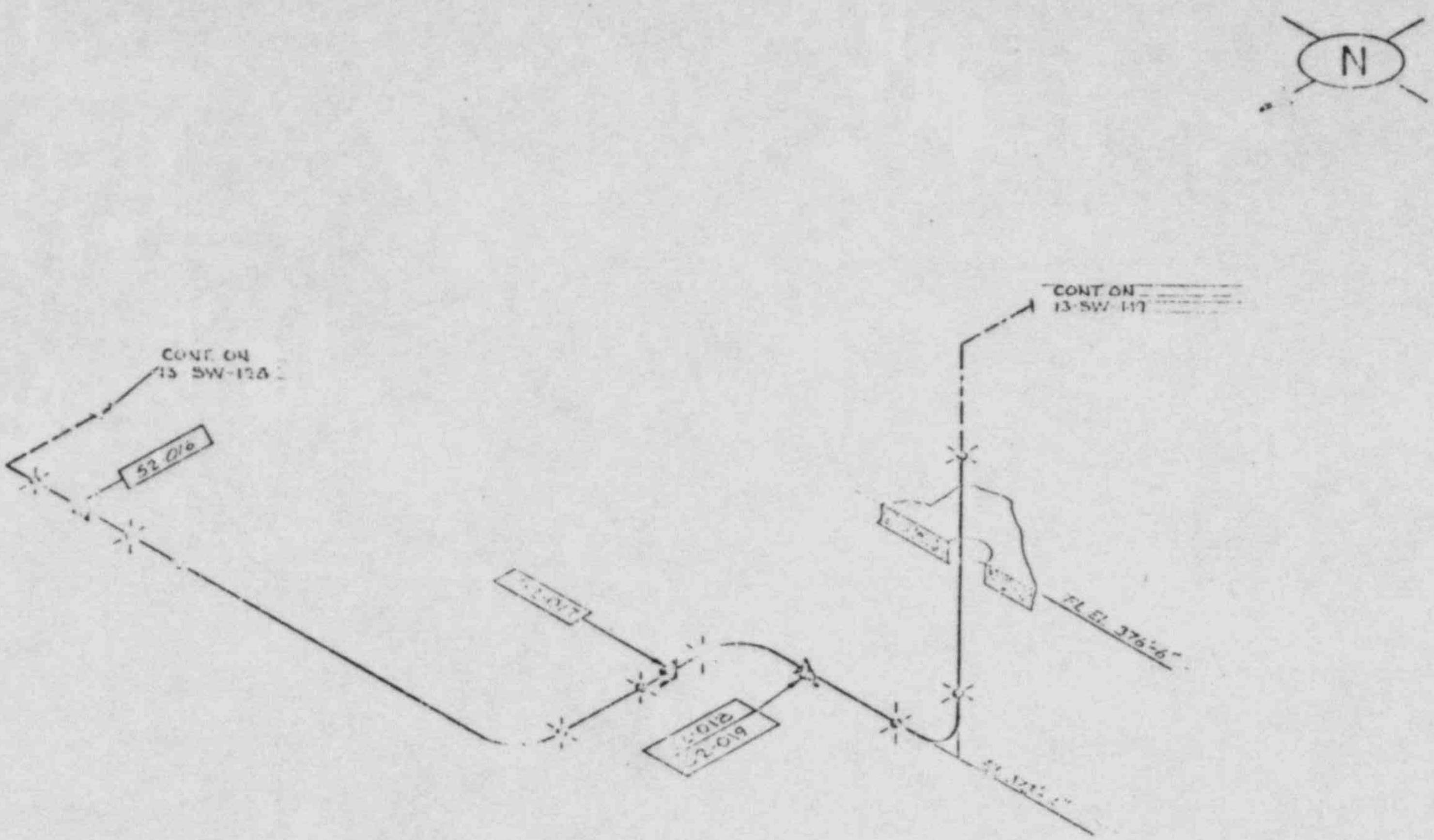
NO.	DATE	REVISION	BY	CHK'D	CW'D
0	23	ISSUED PER ISI			

SCALE: NONE DESIGN: MONTEL DRAWN: MCLEAN

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER TO VC
ZONE 52

DRAWING NO.



ITEM	QTY	DESCRIPTION	HEAT No	ASTM	GRD

BILL OF MATERIAL

STARTUP NO | VIBRATION CLASS | THICK

REFERENCE

P&ID NO
PIPING DWG
AREA NO ELEV.
BLDG
SYS

HANGER TYPE
DWG NO

SYS CLEANING REQMT

SERVICE CONDITIONS

NORM. ____ PSIG ____ °F
MAXIMUM ____ PSIG ____ °F

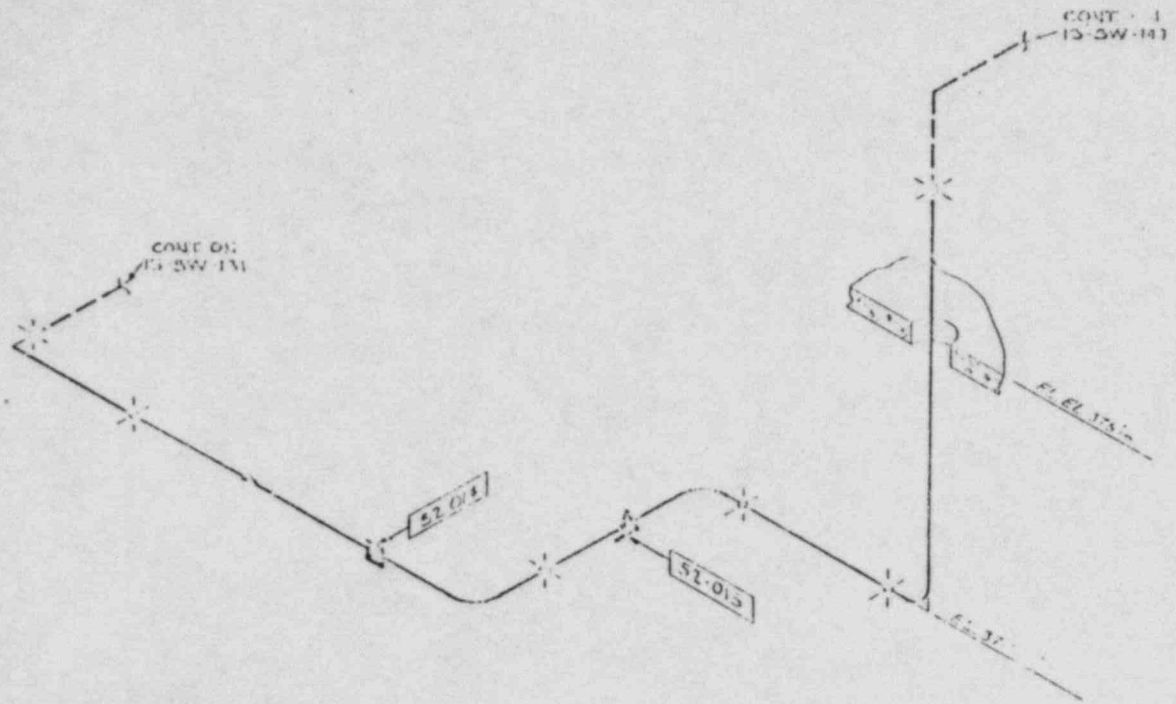
NO.	DATE	REVISION	BY	CHK	ENG	APP
0	[illegible]	ISSUED PER ISI	[illegible]		D.F.	

SCALE NONE | DESIGN BECHTEL | DRAWN [illegible]

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER RETURN
FROM VCC2D ZONE 52

DRAWING NO. ISI- 152H | REV 0



ITEM	QTY	DESCRIPTION	HEAT NO.	ASTM	CAT

BILL OF MATERIAL

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 2

SERVICE WATER TO VCC2000
ZONE 52

151-152H

0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 53

COMPONENT DESCRIPTION

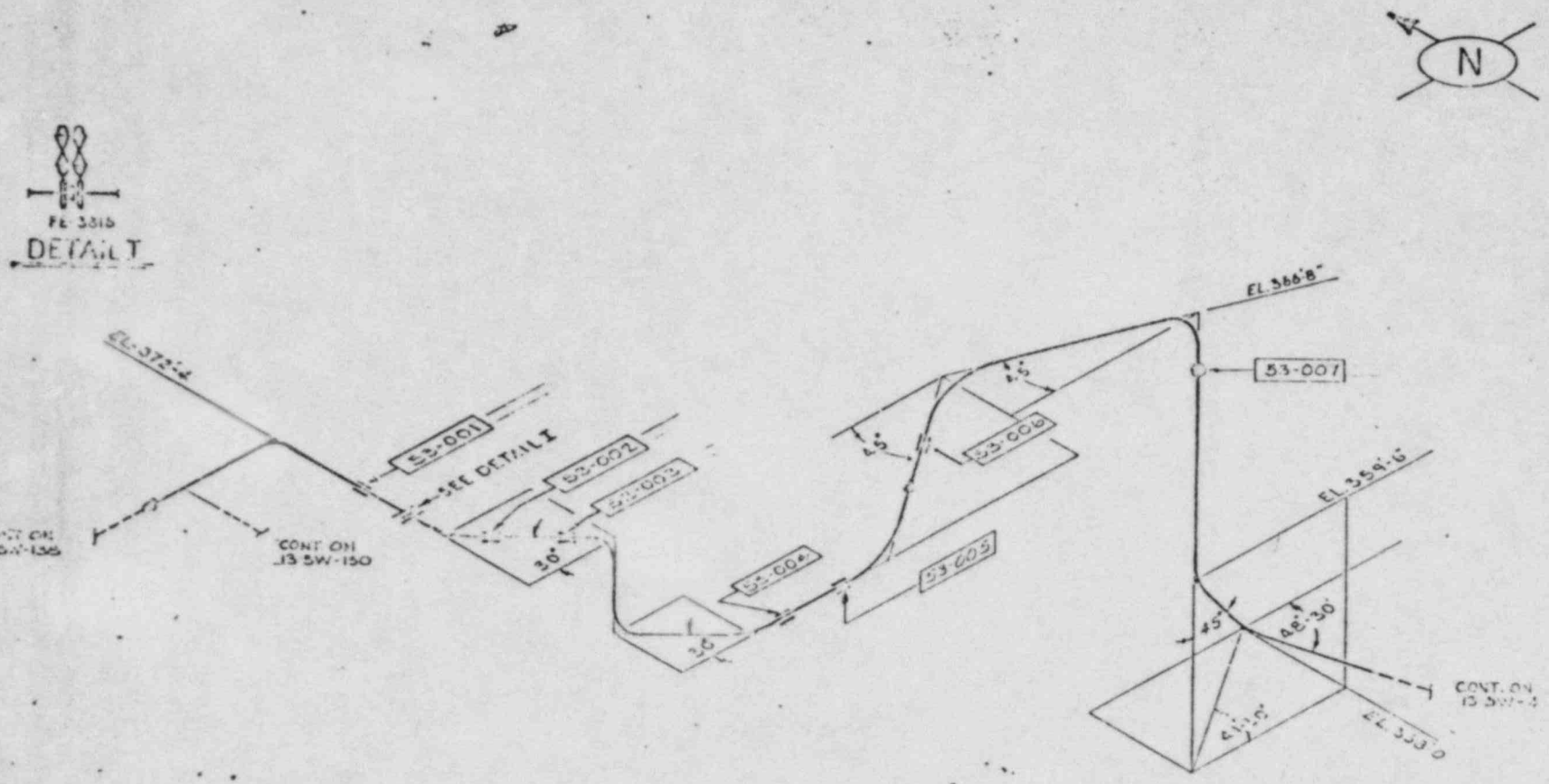
SERVICE WATER LOOPS 1A AND 2A COMMON RETURN IN CONTAINMENT

REVISED 12/01/83

PAGE- 1 of 1

CLASS- 3

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
53-001	Guide HBD-21-H41	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-2145
53-002	Guide HBD-21-H40	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-2144
53-003	Spring Hanger HBD-21-H39	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#12-2143
53-004	Guide HBD-21-H37	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2141
53-005	Guide HBD-21-H36	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2140
53-006	Guide HBD-21-H35	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2139
53-007	Spring Hanger HBD-21-H34	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-2138
53-008	Rigid Hanger HBD-21-H44	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2148
53-009	Rigid Hanger HBD-21-H55	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2159
53-010	Rigid Hanger HBD-21-H43	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2147
53-011	Spring Hanger HBD-21-H44	D2.20.1 DB			X		100	VT-3	NA	NA	NA	NA	SK#12-2148



ITEM	QTY.	DESCRIPTION	HEAT NO.	ASTM	GRD

BILL OF MATERIAL

STARTUP NO. | INSULATION CLASS | THICK

REFERENCE

FOLD NO.
PIPING DWG.
AREA NO. FLEV.
BLDG
SYS

HANGER TYPE
DWG NO.

SYS CLEANING REQMT.

SERVICE CONDITIONS
NORMAL ____ PSIG ____ °F
MAXIMUM ____ PSIG ____ °F

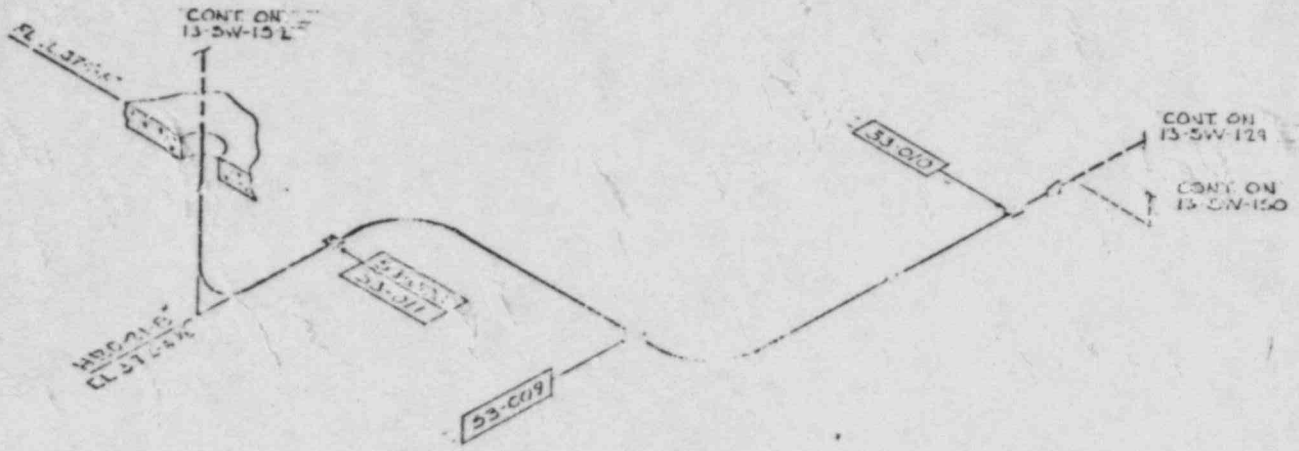
NO	DATE	REVISION	BY	CHK'D	APP'D
0	7/81	ISSUED PER FSI			

DRAWN | TRACED | CHECKED

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER RETURN
ZONE S3

DRAWING NO. 1SI-153H | REV. 0



ITEM	QTY	DESCRIPTION	HEAT NO.	ASTM	GRD

PIPING DWG
AREA NO ELEV.
BLDG
SYS

HANGER TYPE
WS NO

NORMAL PSIG °F
MAXIMUM PSIG °F

NO	DATE	REVISION	BY	APPROVAL
0	7/4	ISSUED PER I.S.I		

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER RETURN
ZONE 53

FORM ENG-011

PROGRAM PLAN AND SCHEDULE

REVISED 12/01/83

ANO-UNIT-ONE

ZONE- 54

PAGE- 1 of 2

PIPING PRESSURE BOUNDRY

COMPONENT DESCRIPTION

CLASS- 3

SERVICE WATER LOOPS 1A AND 2A COMMON RETURN OUTSIDE CONTAINMENT

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B4-001	Valve SW-22B	D2.10.1 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B4-001	Valve SW-22B	D2.10.2 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B4-002	Valve CV-3823	D2.10.3 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B4-002	Valve CV-3823	D2.10.4 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B4-003	Valve CV-3307	D2.10.5 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B4-003	Valve CV-3307	D2.10.6 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B4-004	Valve CV-3806	D2.10.7 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B4-004	Valve CV-3806	D2.10.8 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B4-005	Valve SW-19A	D2.10.9 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B4-005	Valve SW-19A	D2.10.10 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B4-006	Valve SW-19B	D2.10.11 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B4-006	Valve SW-19B	D2.10.12 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B4-007	Valve CV-3815	D2.10.13 DB	X	X	X	X	100	VT-2	NA	NA	NA	NA	System Leakage Test
B4-007	Valve CV-3815	D2.10.14 DB				X	100	VT-2	NA	NA	NA	NA	System Hydrotest
B4-008	Spring Hanger HBD-21-H34	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#12-2138
B4-009	Spring Hanger HBD-21-H57	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#12-2161
B4-010	Spring Hanger HBD-21-H56	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#12-2160
B4-011	Spring Hanger HBD-21-H58	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#12-2162
B4-012	Guide HBD-21-H74	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-2182
B4-013	Spring Hanger HBD-21-75	F-4 F-C	X				100	VT-4	NA	NA	NA	NA	SK#12-2183
B4-014	Guide HBD-21-76	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-2184
B4-015	Guide HBD-14-SW20	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#12-1457
B4-016	Guide HBD-21-H101	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2177
B4-017	Sway Strut HBD-21-H62	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2166
B4-018	Guide HBD-21-H61	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2165
B4-019	Spring Hanger HBD-21-H59	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#12-2163
B4-020	Sway Strut HBD-21-H60	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2164
B4-021	Guide HBD-21-H103	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2179
B4-022	Guide HBD-21-H102	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2178
B4-023	Restraint SW-8	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2068
B4-024	Restraint SW-9	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2068
B4-025	Guide SW-5	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2065
B4-026	Guide SW-4	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2064

FORM ENG-011

NO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 54

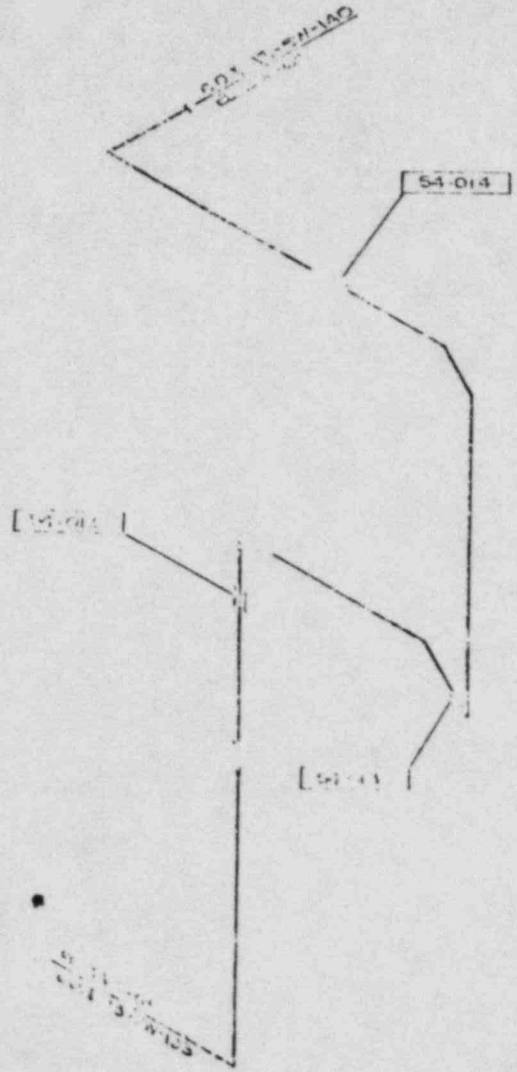
COMPONENT DESCRIPTION

SERVICE WATER LOOPS 1A AND 2A COMMON RETURN OUTSIDE OF CONTAINMENT

REVISED 12/01/83

CLASS- 3

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B4-027	Sway Strut HBD-20-H18	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2018
B4-028	Guide HBD-21-H30	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2132
B4-029	Guide HBD-21-H17	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2116
B4-030	Rigid Hanger HBD-13-17C	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#HBD-13-17C
B4-031	Guide HBD-21-H31	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#12-2133
B4-032	Guide HBD-21-H25	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2127
B4-033	Guide HBD-21-H25A	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2127A
B4-034	Guide HBD-21-H26	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2128
B4-035	Spring Hanger HBD-21-H27	F-4	F-C			X		100	VT-4	NA	NA	NA	NA	SK#12-2129
B4-036	Guide HBD-21-H11	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2110
B4-037	Rigid Hanger HBD-21-H12	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2111
B4-038	Guide HBD-21-H9	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2108
B4-039	Rigid Hanger HBD-21-H10	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#12-2109
B4-040	Guide HBD-21-H8	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2107
B4-041	Guide HBD-21-H7	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2106
B4-042	Spring Hanger HBD-21-H6	F-4	F-C				X	100	VT-4	NA	NA	NA	NA	SK#12-2105
B4-043	Rigid Hanger HBD-21-H1	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2100
B4-044	Guide HBD-21-H2	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2101
B4-045	Rigid Hanger HBD-21-H3	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2102
B4-046	Guide HBD-21-H4	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#HBD-21-H4
B4-047	Rigid Hanger HBD-21-H5	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#12-2104



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SYSTEM

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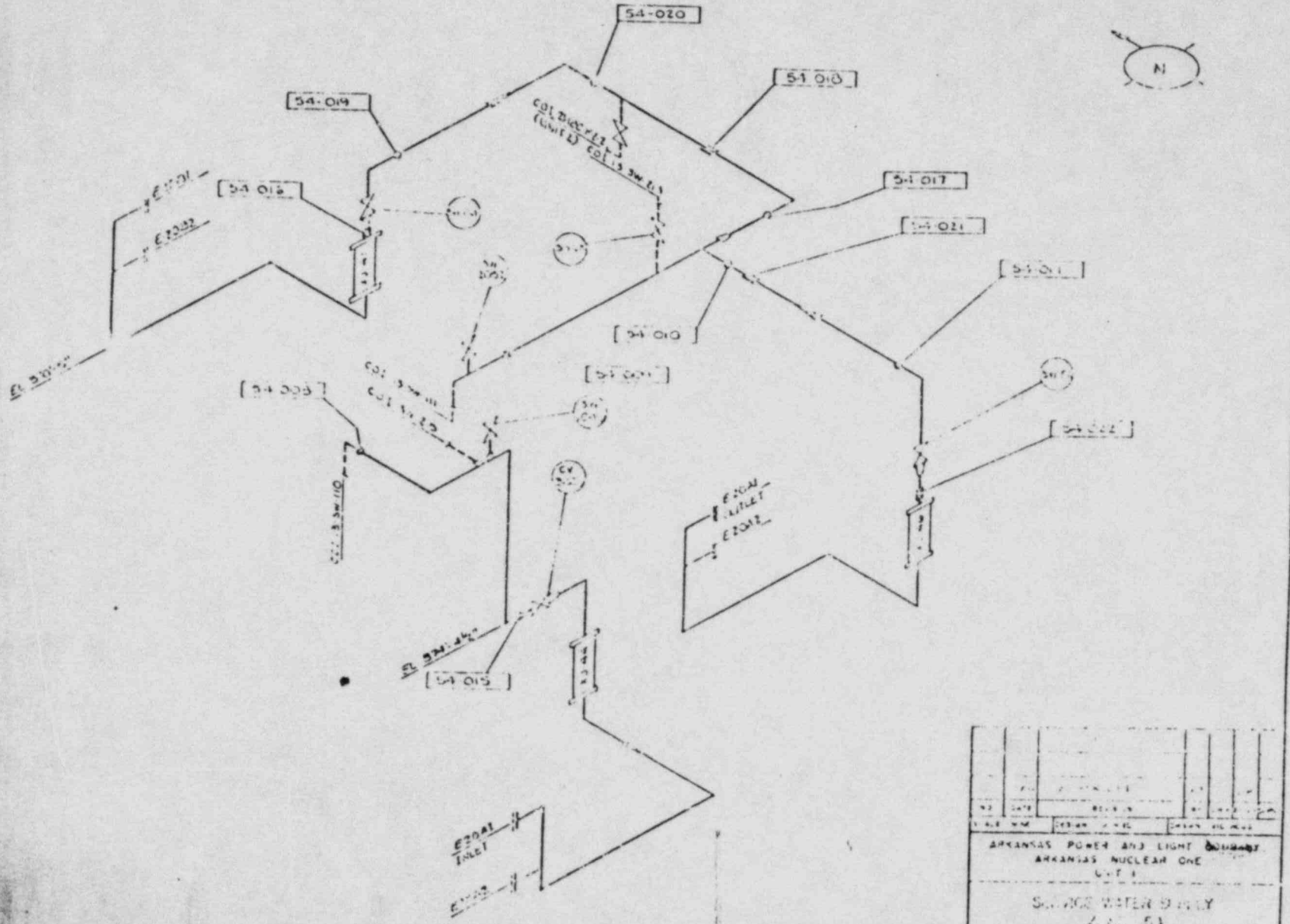
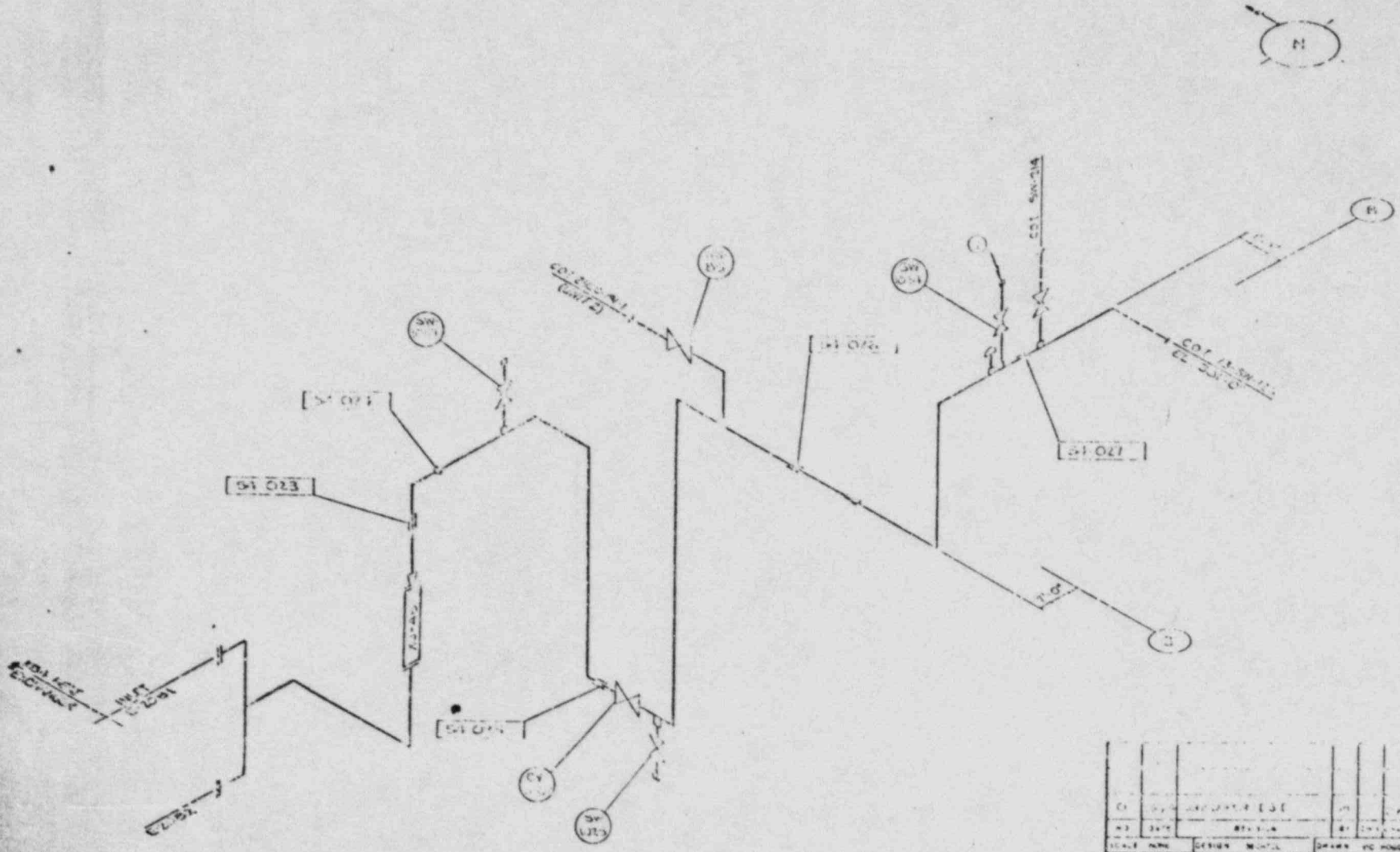


ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SYSTEM
ZONE 51

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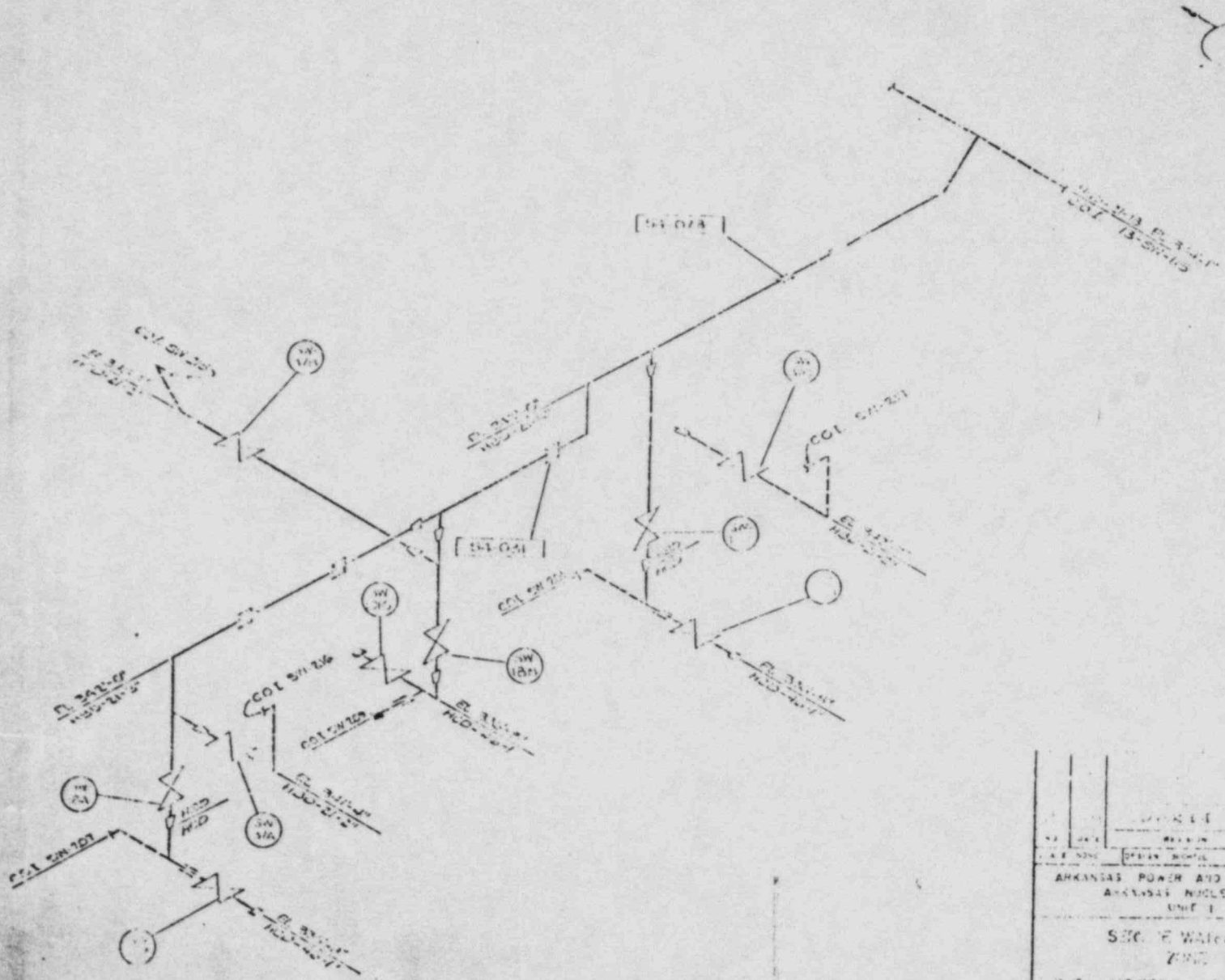

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SYSTEM
ZONE 54

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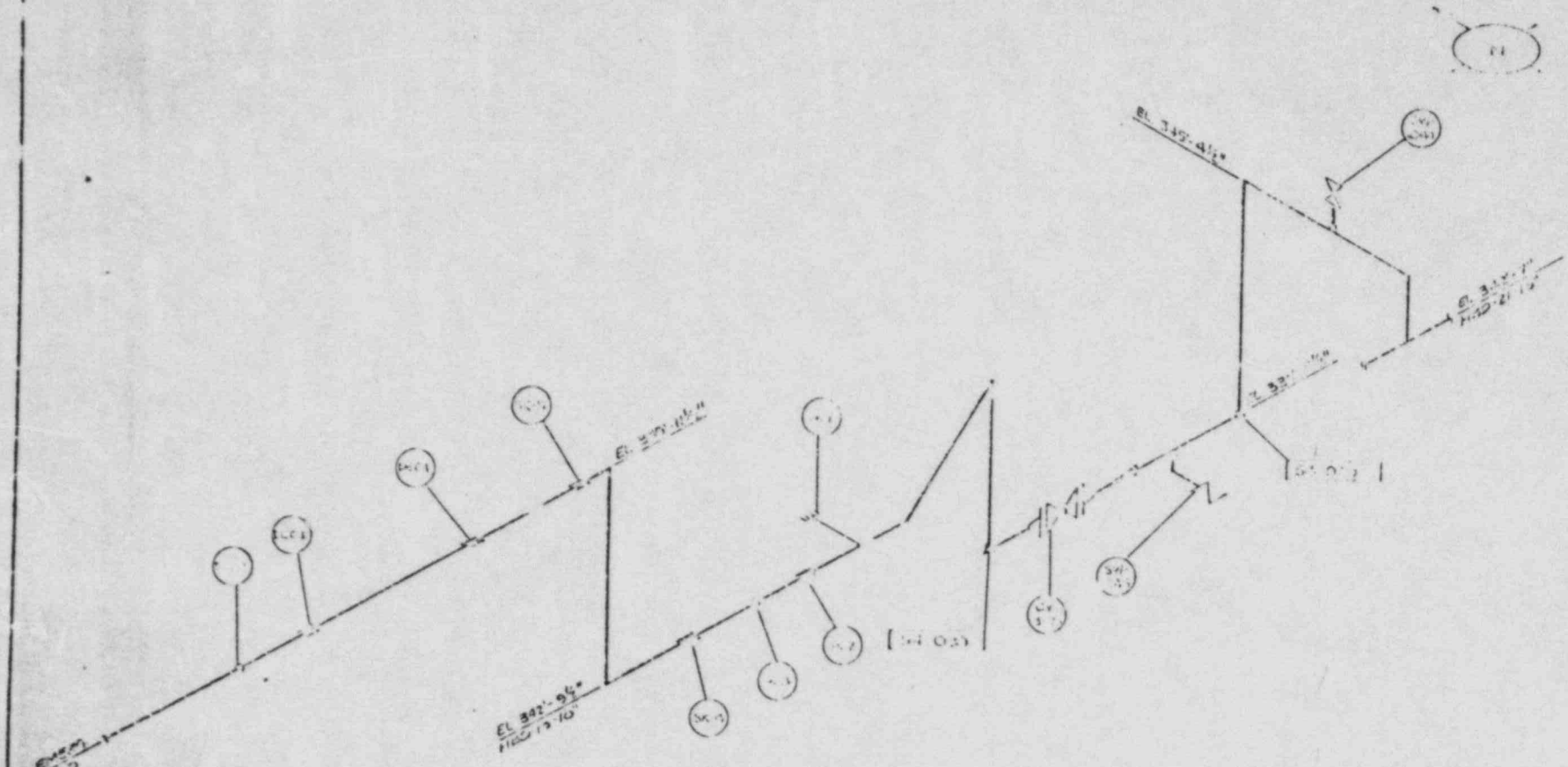
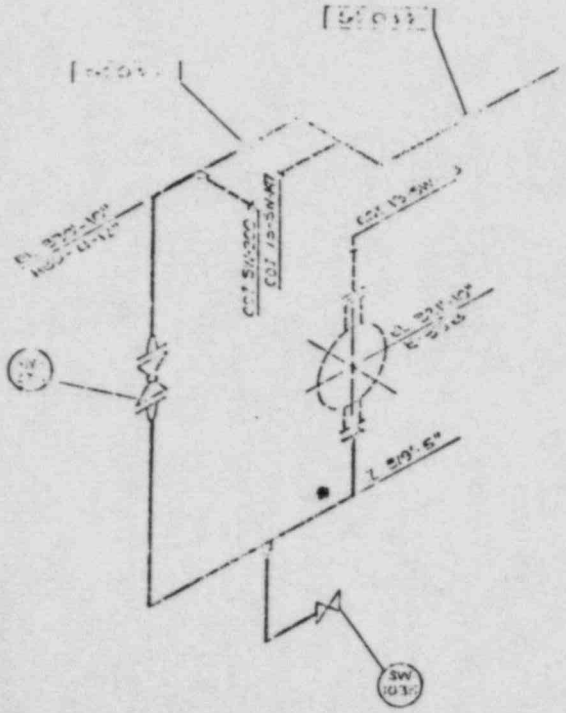
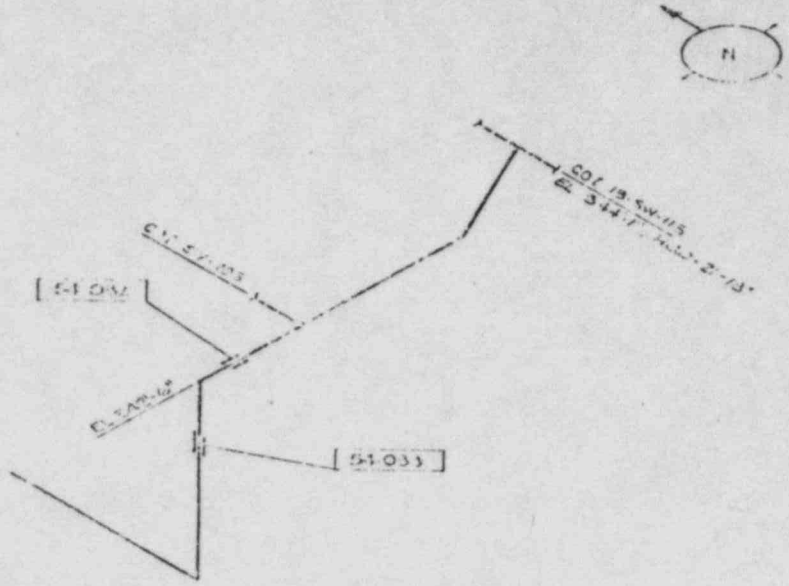


ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER SUPPLY
ZONE 54





ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SEISMIC WATER SYSTEM
ZONE 5

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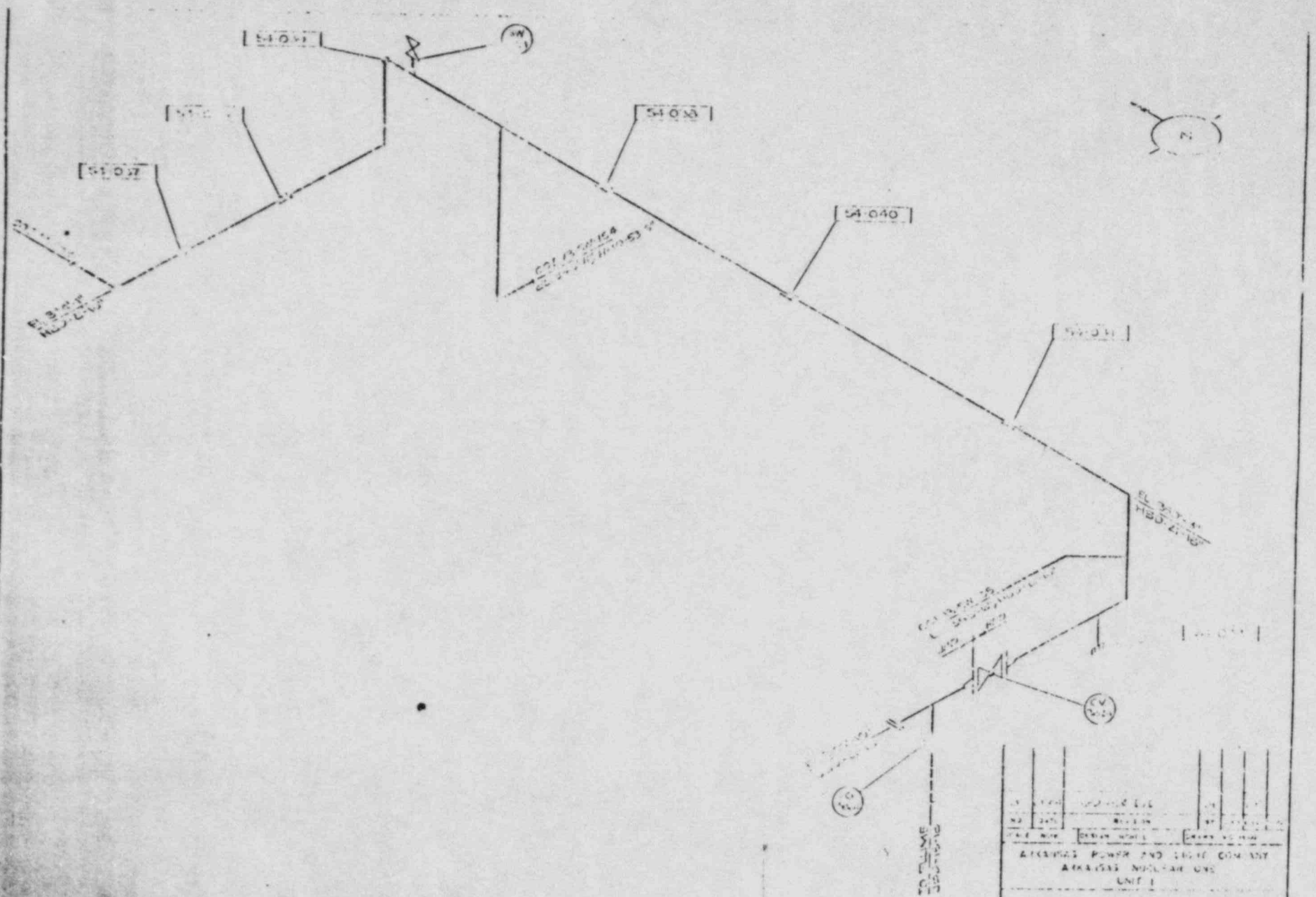
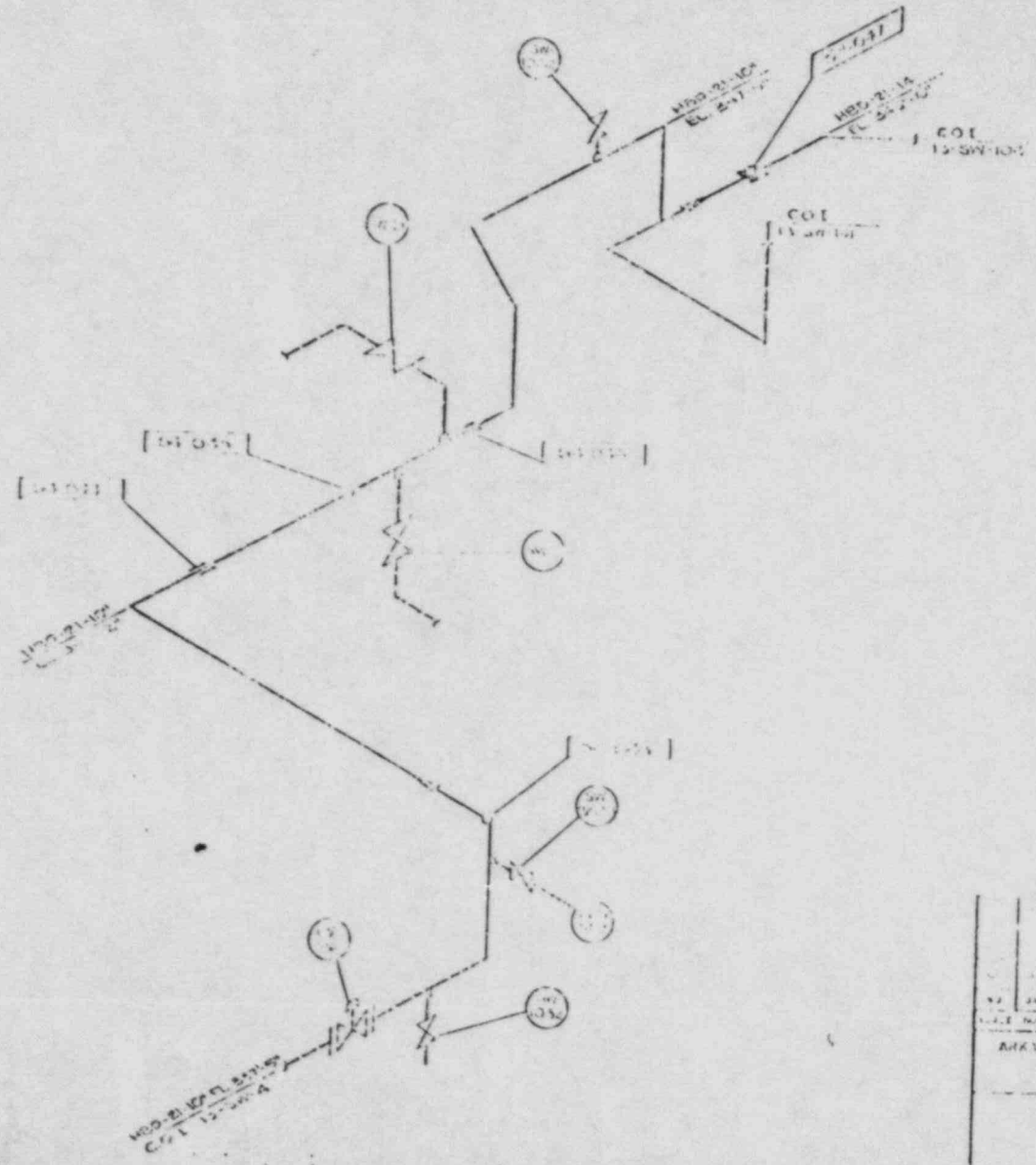
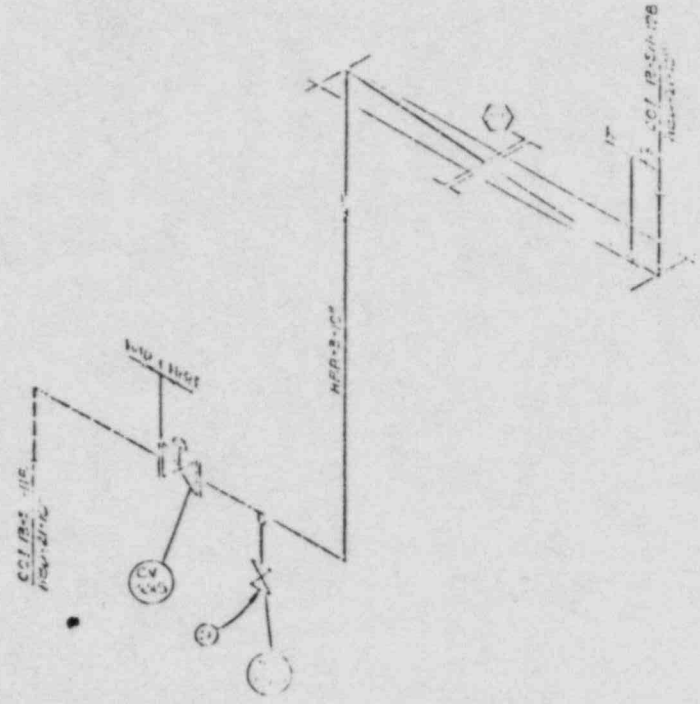




ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SERVICE WATER PIPING



ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

SURGE WATER [illegible]

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FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 55

COMPONENT DESCRIPTION

BUILDING SPRAY LOOP A INSIDE CONTAINMENT

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B5-001	Pump P35A To Pipe Circ Weld	C5.11.1 CF	X				100	PT	NA	X	X	X	
B5-002	Pipe To Valve Circ Weld	C5.11.2 CF	X				100	PT	NA	X	X	X	
B5-003	Valve To Ell Circ Weld	C5.11.3 CF		X			100	PT	NA	X	X	X	
B5-004	Ell To Pipe Circ Weld	C5.11.4 CF		X			100	PT	NA	X	X	X	
B5-005	Pipe To Ell Circ Weld	C5.11.5 CF			X		100	PT	NA	X	X	X	
B5-006	Ell To Pipe Circ Weld	C5.11.6 CF			X		100	PT	NA	X	X	X	
B5-007	Pipe To Ell Circ Weld	C5.11.7 CF				X	100	PT	NA	X	X	X	
B5-008	Ell To Pipe Circ Weld	C5.11.8 CF				X	100	PT	NA	X	X	X	
B5-009	Pipe To FE-2401 Circ Weld	C5.11.9 CF				X	100	PT	NA	X	X	X	
B5-010	FE-2401 To Pipe Circ Weld	C5.11.10 CF					100	PT	NA				
B5-011	Pipe To Ell Circ Weld	C5.11.11 CF					100	PT	NA				
B5-012	Ell To Pipe Circ Weld	C5.11.12 CF					100	PT	NA				
B5-013	Pipe To Ell Circ Weld	C5.11.13 CF					100	PT	NA				
B5-014	Ell To Pipe Circ Weld	C5.11.14 CF					100	PT	NA				
B5-015	Pipe To Ell Circ Weld	C5.11.15 CF					100	PT	NA				
B5-016	Ell To Pipe Circ Weld	C5.11.16 CF					100	PT	NA				
B5-017	Pipe To Tee Circ Weld	C5.11.17 CF					100	PT	NA				
B5-018	Tee To Valve Circ Weld	C5.11.18 CF					100	PT	NA				
B5-019	Valve To Pipe Circ Weld	C5.11.19 CF					100	PT	NA				
B5-020	Pipe To Ell Circ Weld	C5.11.20 CF					100	PT	NA				
B5-021	Ell To Pipe Circ Weld	C5.11.21 CF					100	PT	NA				
B5-022	Pipe To Ell Circ Weld	C5.11.22 CF					100	PT	NA				
B5-023	Ell To Pipe Circ Weld	C5.11.23 CF					100	PT	NA				
B5-024	Pipe To Ell Circ Weld	C5.11.24 CF					100	PT	NA				
B5-025	Ell To Pipe Circ Weld	C5.11.25 CF					100	PT	NA				
B5-026	Pipe To Pipe Circ Weld	C5.11.26 CF					100	PT	NA				
B5-027	Pipe To Ell Circ Weld	C5.11.27 CF					100	PT	NA				
B5-028	Ell To Valve Circ Weld	C5.11.28 CF					100	PT	NA				
B5-029	Tee To Valve Circ Weld	C5.11.29 CF					100	PT	NA				
B5-030	Valve To Ell Circ Weld	C5.11.30 CF					100	PT	NA				
B5-031	Ell To Pipe Circ Weld	C5.11.31 CF					100	PT	NA				
B5-032	Pipe To Pipe Circ Weld	C5.11.32 CF					100	PT	NA				
B5-033	Pipe To Ell Circ Weld	C5.11.33 CF					100	PT	NA				

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-55

COMPONENT DESCRIPTION

BUILDING SPRAY LOOP A INSIDE CONTAINMENT

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B5-034	Ell To Pipe Circ Weld	C5.11.34 CF					100	PT	NA				
B5-035	Pipe To Ell Circ Weld	C5.11.35 CF					100	PT	NA				
B5-036	Ell To Pipe Circ Weld	C5.11.36 CF					100	PT	NA				
B5-037	Pipe To Ell Circ Weld	C5.11.37 CF					100	PT	NA				
B5-038	Ell To Pipe Circ Weld	C5.11.38 CF					100	PT	NA				
B5-039	Pipe To Ell Circ Weld	C5.11.39 CF					100	PT	NA				
B5-040	Ell To Pipe Circ Weld	C5.11.40 CF					100	PT	NA				
B5-041	Pipe To Ell Circ Weld	C5.11.41 CF					100	PT	NA				
B5-042	Ell To Ell Circ Weld	C5.11.42 CF					100	PT	NA				
B5-043	Ell To Pipe Circ Weld	C5.11.43 CF					100	PT	NA				
B5-044	Pipe To Tee Circ Weld	C5.11.44 CF					100	PT	NA				
B5-045	Tee To Pipe Circ Weld	C5.11.45 CF					100	PT	NA				
B5-046	Pipe To Ell Circ Weld	C5.11.46 CF					100	PT	NA				
B5-047	Ell To Pipe Circ Weld	C5.11.47 CF					100	PT	NA				
B5-048	Pipe To Pipe Circ Weld	C5.11.48 CF					100	PT	NA				
B5-049	Pipe To Ell Circ Weld	C5.11.49 CF					100	PT	NA				
B5-050	Ell To Pipe Circ Weld	C5.11.50 CF					100	PT	NA				
B5-051	Pipe To Valve Circ Weld	C5.11.51 CF					100	PT	NA				
B5-052	Tee To Pipe Circ Weld	C5.11.52 CF					100	PT	NA				
B5-053	Pipe To Ell Circ Weld	C5.11.53 CF					100	PT	NA				
B5-054	Ell To Pipe Circ Weld	C5.11.54 CF					100	PT	NA				
B5-055	Pipe To Pipe Circ Weld	C5.11.55 CF					100	PT	NA				
B5-056	Pipe To Ell Circ Weld	C5.11.56 CF					100	PT	NA				
B5-057	Ell To Pipe Circ Weld	C5.11.57 CF					100	PT	NA				
B5-058	Pipe To FO-1400 Circ Weld	C5.11.58 CF					100	PT	NA				
B5-059	FO-1400 To Pipe Circ Weld	C5.11.59 CF					100	PT	NA				
B5-060	Pipe To FO-1401 Circ Weld	C5.11.60 CF					100	PT	NA				
B5-061	FO-1401 To Pipe Circ Weld	C5.11.61 CF					100	PT	NA				
B5-062	Pipe To Ell Circ Weld	C5.11.62 CF					100	PT	NA				
B5-063	Ell To Pipe Circ Weld	C5.11.63 CF					100	PT	NA				
B5-064	Pipe To Ell Circ Weld	C5.11.64 CF					100	PT	NA				
B5-065	Ell To Pipe Circ Weld	C5.11.65 CF					100	PT	NA				
B5-066	Pipe To Valve Circ Weld	C5.11.66 CF					100	PT	NA				

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 55

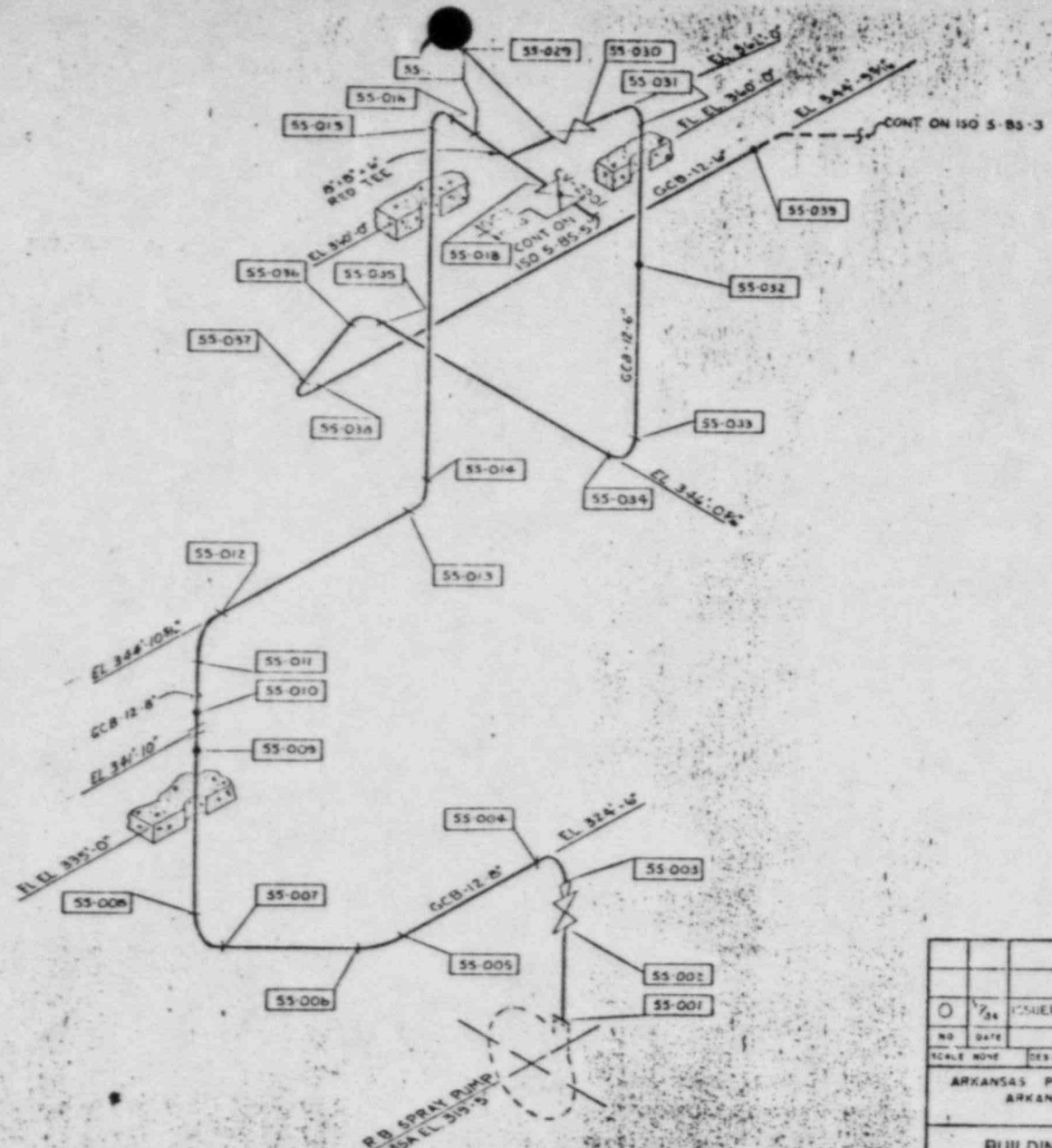
COMPONENT DESCRIPTION

BUILL.NG SPRAY LOOP A INSIDE CONTAINMENT

REVISED 12/01/83

CLASS- 2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
55-067	Building Spray Pump P35A	C7.30.1 CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-068	Building Spray Pump P35A	C7.31.1 CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-069	Valve BS-1A	C7.40.1 CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-070	Valve BS-1A	C7.41.2 CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-071	Valve CV-2401	C7.40.3 CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-072	Valve CV-2401	C7.40.4 CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-073	Valve BS-2A	C7.40.5 CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-074	Valve BS-2A	C7.40.6 CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-075	Valve BS-4A	C7.40.7 CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-076	Valve BS-4A	C7.40.8 CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-077	Guide Hanger BS-62	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#9-1211
55-078	Rigid Hanger BS-42	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#9-1210
55-079	Guide Hanger BS-41	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#9-1209
55-080	Rigid Hanger BS-40	F-3 F-C	X				100	VT-3	NA	NA	NA	NA	SK#9-1207
55-081	Guide Hanger BS-39	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#9-1205
55-082	Guide Hanger BS-38	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#9-1204
55-083	Rigid Hanger BS-37	F-3 F-C		X			100	VT-3	NA	NA	NA	NA	SK#9-1201
55-084	Spring Hanger BS-36	F-4 F-C		X			100	VT-4	NA	NA	NA	NA	SK#9-1200
55-085	Spring Hanger BS-43	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#9-1234
55-086	Spring Hanger BS-44	F-4 F-C			X		100	VT-4	NA	NA	NA	NA	SK#9-1235
55-087	Guide Hanger BS-63	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#9-1212
55-088	Guide Hanger BS-67	F-3 F-C			X		100	VT-3	NA	NA	NA	NA	SK#9-1214
55-089	Guide Hanger BS-65	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#9-1213
55-090	Guide Hanger GCB-12-BS-69	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#9-1215
55-091	Spring Hanger BS-70	F-4 F-C				X	100	VT-4	NA	NA	NA	NA	SK#9-1216
55-092	Rigid Hanger BS-71	F-3 F-C				X	100	VT-3	NA	NA	NA	NA	SK#9-1217
55-093	Pressure Retaining Components	C7.20.1 CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
55-094	Pressure Retaining Components	C7.21.2 CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry



NO	DATE	ISSUED PER ISI	BY	CHKD
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SCALE NONE | DESIGN D PAYNE | DRAWN T RICHEY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

BUILDING SPRAY LOOP A
ZONE-55

DRAWING NO	REV
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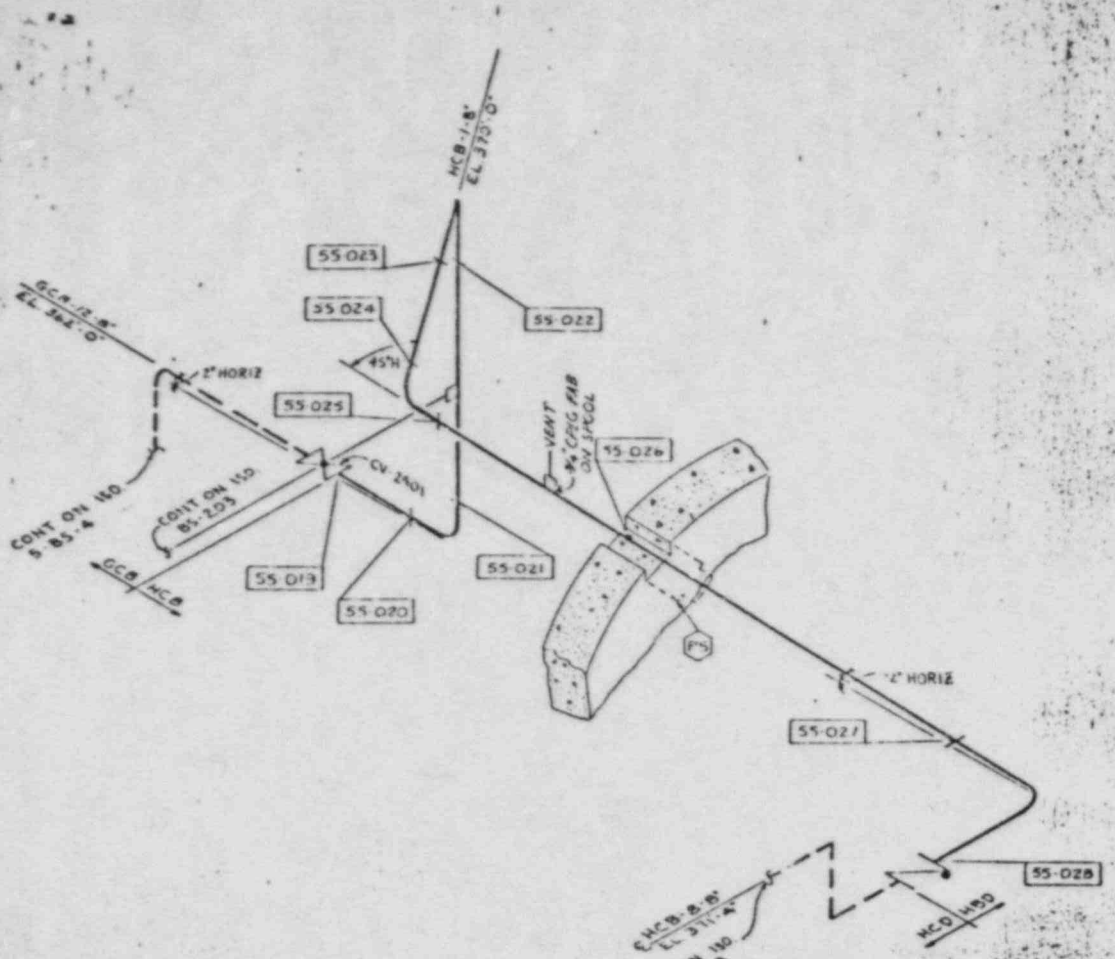


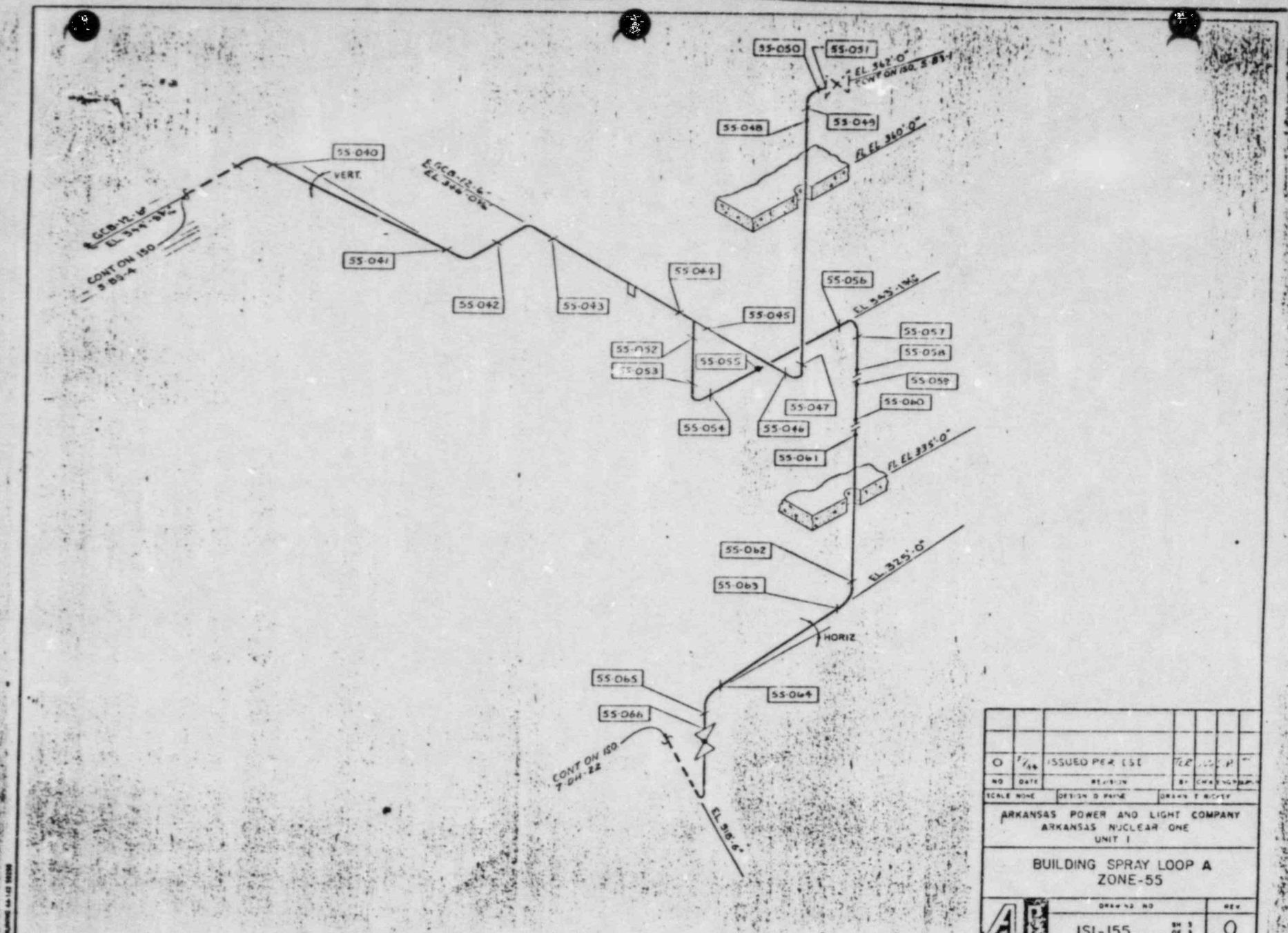
NO	DATE	REVISION	BY	CHKD	APP'D
0	7/84	ISSUED PER E.C.	TLH	MS	DP

SCALE NONE | DESIGN D PAYNE | DRAWN T RICHEY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

BUILDING SPRAY LOOP A
ZONE-55

DRAWING NO: ISI-155 | REV: 0


55-050
55-051
EL 342'-0"
CONT ON ISO 5 85-1
55-048
55-049
EL 340'-0"
55-040
VERT.
55-041
55-042
55-043
55-044
55-045
55-056
EL 343'-1½"
55-057
55-058
55-052
55-053
55-055
55-047
55-060
55-054
55-046
55-061
EL 335'-0"
55-062
55-063
EL 325'-0"
HORIZ
55-065
55-064
55-066
CONT ON ISO 7 DH-22
EL 318'-6"
ISSUED PER ISI
ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1
BUILDING SPRAY LOOP A
ZONE-55
ISI-155
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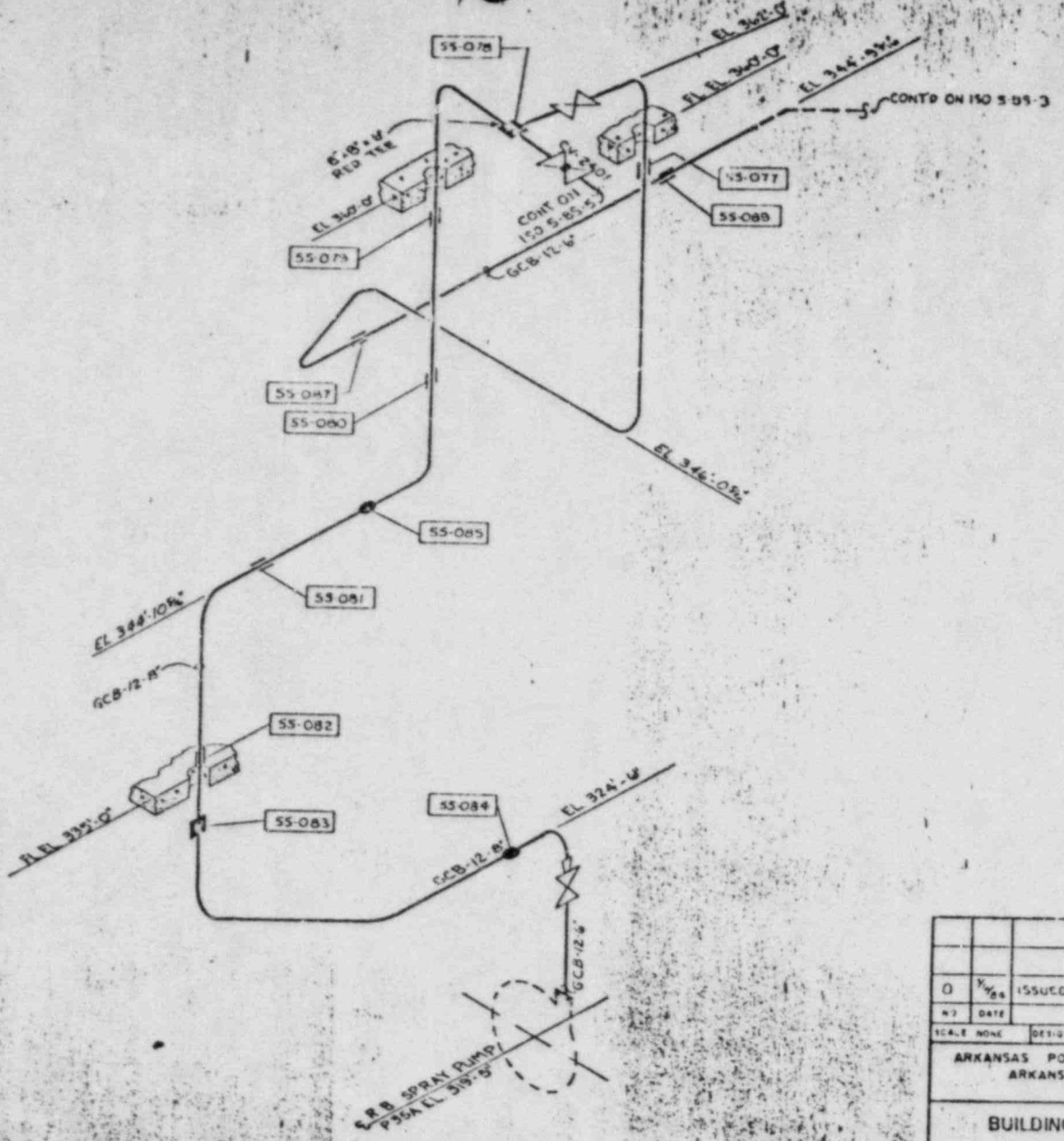

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NO	DATE	REVISION	BY			

SCALE NONE | DESIGN D PAYNE | DRAWN T RICHEY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

BUILDING SPRAY LOOP A ZONE-55

	DRAWING NO	REV
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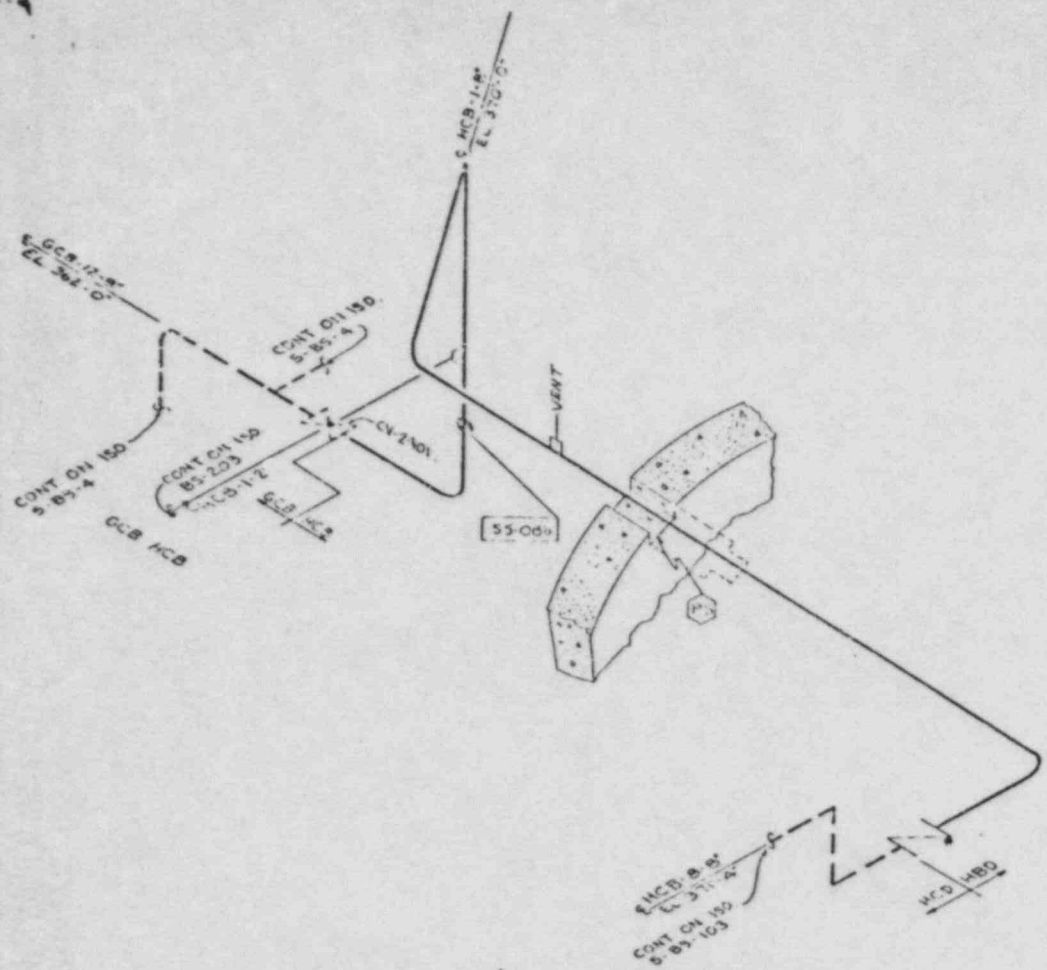


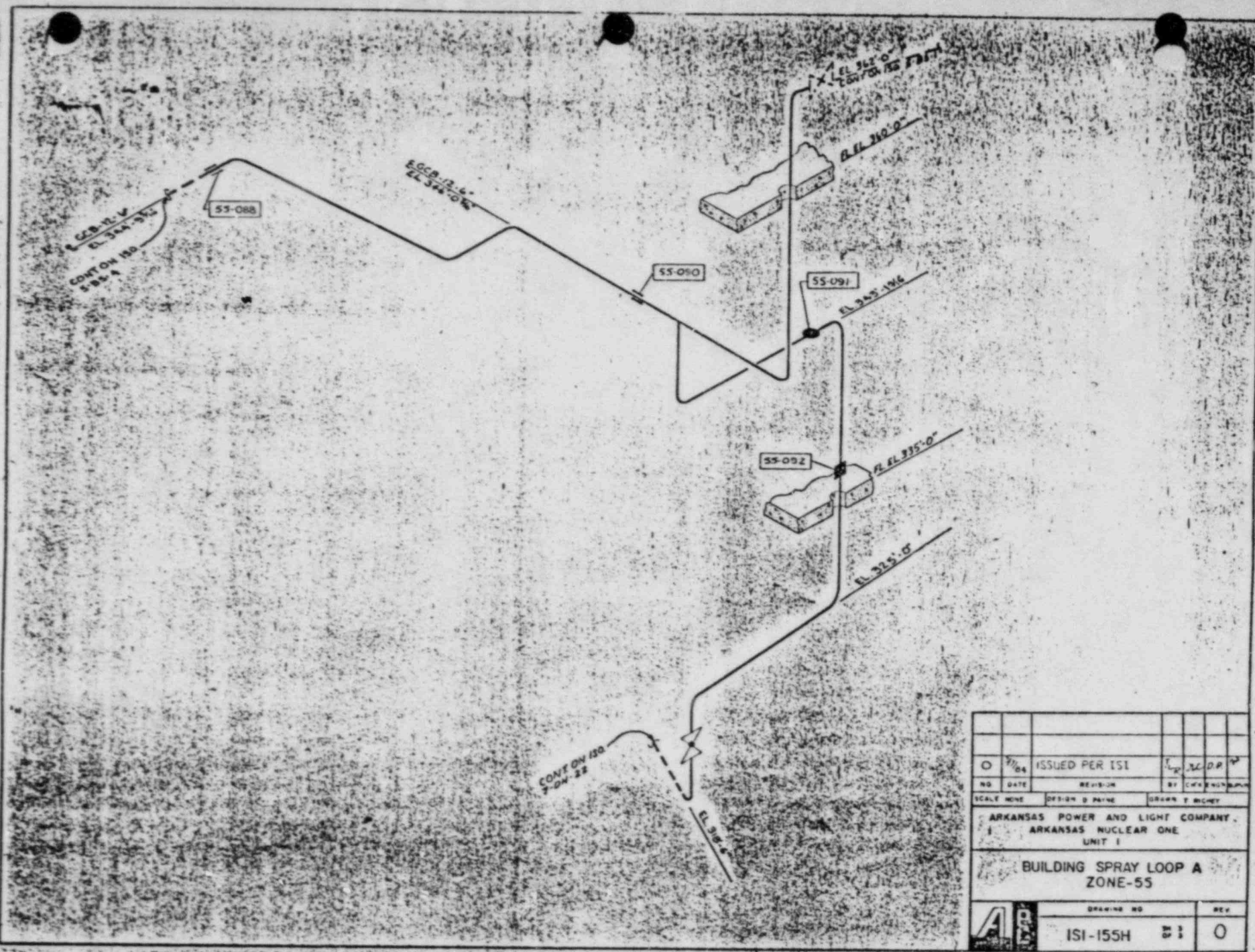
NO	DATE	REVISION	BY	CHK'D
0	7/82	ISSUED FOR ISI		

SCALE NONE | DESIGN ENGR | DRAWN BY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

BUILDING SPRAY LOOP A
ZONE-55

DRAWING NO. ISI-155H SH 1 OF 1 REV 0



0	7/1/84	ISSUED PER ISI		JC	DP	
NO	DATE	REVISION		BY	CHK'D	APP'D

SCALE NONE | DESIGN D PAYNE | DRAWN T MICHEY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

BUILDING SPRAY LOOP A
ZONE-55

DRAWING NO	REV
ISI-155H	0

FORM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE-56

COMPONENT DESCRIPTION

BUILDING SPRAY LOOP B INSIDE CONTAINMENT

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B6-001	Pump P35B To Pipe Circ Weld	C5.11.1 CF	X				100	PT	NA	X	X	X	
B6-002	Pipe To Valve Circ Weld	C5.11.2 CF	X				100	PT	NA	X	X	X	
B6-003	Valve To Reducer Circ Weld	C5.11.3 CF		X			100	PT	NA	X	X	X	
B6-004	Reducer To Ell Circ Weld	C5.11.4 CF		X			100	PT	NA	X	X	X	
B6-005	Ell To Ell Circ Weld	C5.11.5 CF			X		100	PT	NA	X	X	X	
B6-006	Ell To Pipe Circ Weld	C5.11.6 CF					100	PT	NA	X	X	X	
B6-007	Pipe To Ell Circ Weld	C5.11.7 CF					100	PT	NA				
B6-008	Ell To Pipe Circ Weld	C5.11.8 CF					100	PT	NA				
B6-009	Pipe To Ell Circ Weld	C5.11.9 CF					100	PT	NA				
B6-010	Ell To Pipe Circ Weld	C5.11.10 CF					100	PT	NA				
B6-011	Pipe To Ell Circ Weld	C5.11.11 CF					100	PT	NA				
B6-012	Ell To Pipe Circ Weld	C5.11.12 CF					100	PT	NA				
B6-013	Pipe To FO-2400 Circ Weld	C5.11.13 CF					100	PT	NA				
B6-014	FO-2400 To Pipe Circ Weld	C5.11.14 CF					100	PT	NA				
B6-015	Pipe To Ell Circ Weld	C5.11.15 CF					100	PT	NA				
B6-016	Ell To Pipe Circ Weld	C5.11.16 CF					100	PT	NA				
B6-017	Pipe To Ell Circ Weld	C5.11.17 CF					100	PT	NA				
B6-018	Ell To Pipe Circ Weld	C5.11.18 CF					100	PT	NA				
B6-019	Pipe To Ell Circ Weld	C5.11.19 CF					100	PT	NA				
B6-020	Ell To Pipe Circ Weld	C5.11.20 CF					100	PT	NA				
B6-021	Pipe To Ell Circ Weld	C5.11.21 CF					100	PT	NA				
B6-022	Ell To Pipe Circ Weld	C5.11.22 CF					100	PT	NA				
B6-023	Pipe To Tee Circ Weld	C5.11.23 CF					100	PT	NA				
B6-024	Tee To Valve Circ Weld	C5.11.24 CF					100	PT	NA				
B6-025	Tee To Pipe Circ Weld	C5.11.25 CF					100	PT	NA				
B6-026	Pipe To Valve Circ Weld	C5.11.26 CF					100	PT	NA				
B6-027	Valve To Pipe Circ Weld	C5.11.27 CF					100	PT	NA				
B6-028	Pipe To Ell Circ Weld	C5.11.28 CF					100	PT	NA				
B6-029	Ell To Pipe Circ Weld	C5.11.29 CF					100	PT	NA				
B6-030	Pipe To Ell Circ Weld	C5.11.30 CF					100	PT	NA				
B6-031	Ell To Pipe Circ Weld	C5.11.31 CF					100	PT	NA				
B6-032	Pipe To Ell Circ Weld	C5.11.32 CF					100	PT	NA				
B6-033	Ell To Pipe Circ Weld	C5.11.33 CF					100	PT	NA				

PCAM ENG-011

ANO-UNIT-ONE

PIPING PRESSURE BOUNDRY

PROGRAM PLAN AND SCHEDULE

ZONE- 56

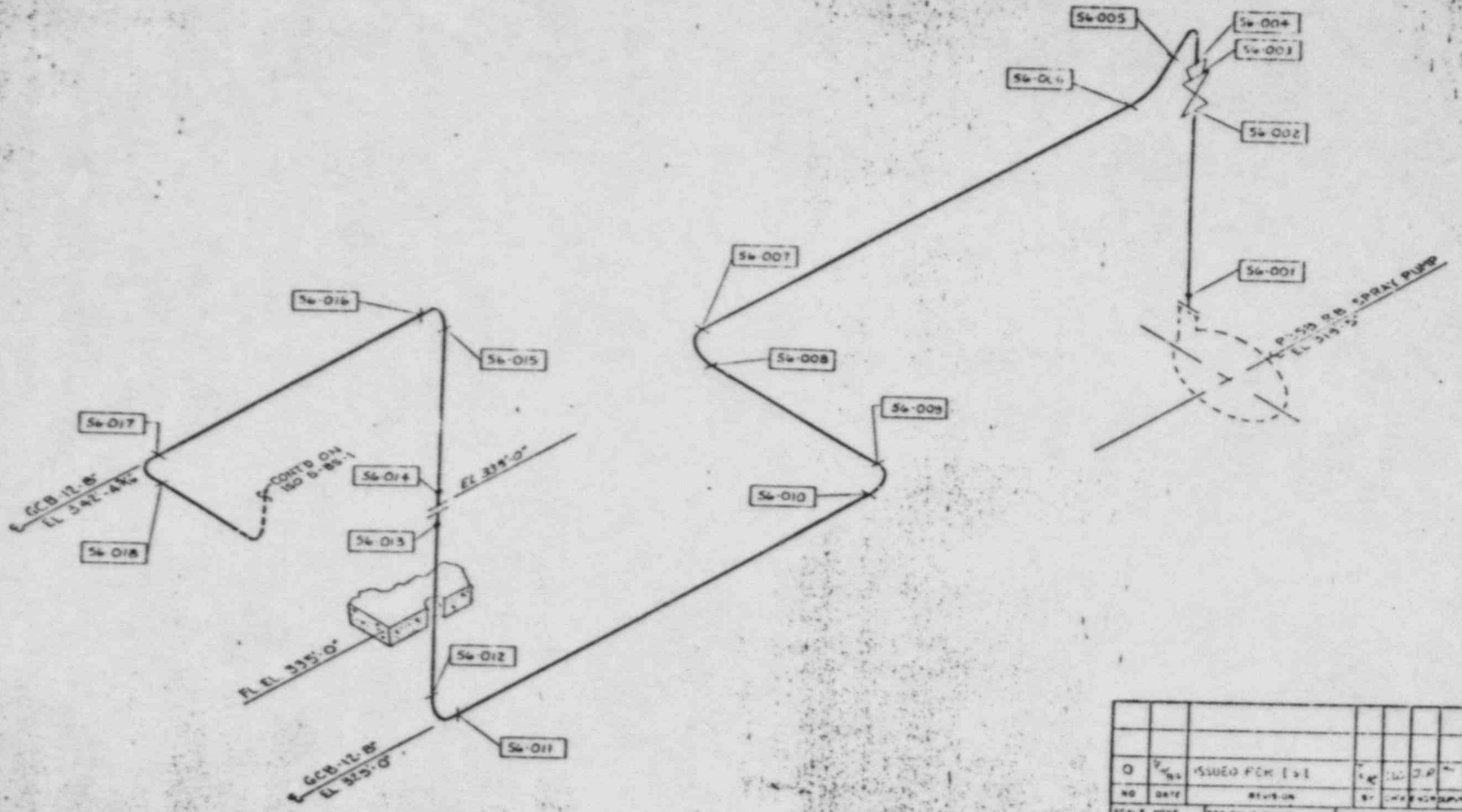
COMPONENT DESCRIPTION

BUILDING SPRAY LOOP B INSIDE CONTAINMENT

REVISED 12/01/83

CLASS-2

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER		EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
B6-034	Pipe To Ell Circ Weld	C5.11.34	CF					100	PT	NA				
B6-035	Ell To Pipe Circ Weld	C5.11.35	CF					100	PT	NA				
B6-036	Pipe To Ell Circ Weld	C5.11.36	CF					100	PT	NA				
B6-037	Ell To Valve Circ Weld	C5.11.37	CF					100	PT	NA				
B6-038	Building Spray Pump P35B	C7.30.1	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-039	Building Spray Pump P35B	C7.31.1	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-040	Valve BS-1B	C7.40.1	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-041	Valve BS-1B	C7.41.2	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-042	Valve CV-2400	C7.40.3	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-043	Valve CV-2400	C7.40.4	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-044	Valve BS-4B	C7.40.5	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-045	Valve BS-4B	C7.40.6	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-046	Rigid Hanger BS-46	F-3	F-C	X				100	VT-3	NA	NA	NA	NA	SK#9-1219
B6-047	Spring Hauger BS-47	F-4	F-C	X				100	VT-4	NA	NA	NA	NA	SK#9-1221
B6-048	Rigid Hanger BS-55	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#9-1229
B6-049	Guide Hanger BS-50	F-3	F-C		X			100	VT-3	NA	NA	NA	NA	SK#9-1223
B6-050	Guide Hanger BS-53	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#9-1225
B6-051	Rigid Hanger BS-54	F-3	F-C			X		100	VT-3	NA	NA	NA	NA	SK#9-1228
B6-052	Rigid Hanger BS-52	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#9-1224
B6-053	Guide Hanger BS-48	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#9-1222
B6-054	Rigid Hanger BS-56	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#9-1230
B6-055	Guide Hanger BS-58	F-3	F-C				X	100	VT-3	NA	NA	NA	NA	SK#9-1232
B6-056	Pressure Retaining Components	C7.20.1	CH	X	X	X	X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry
B6-057	Pressure Retaining Components	C7.21.2	CH				X	100	VT-2	NA	NA	NA	NA	Pressure Retaining Boundry



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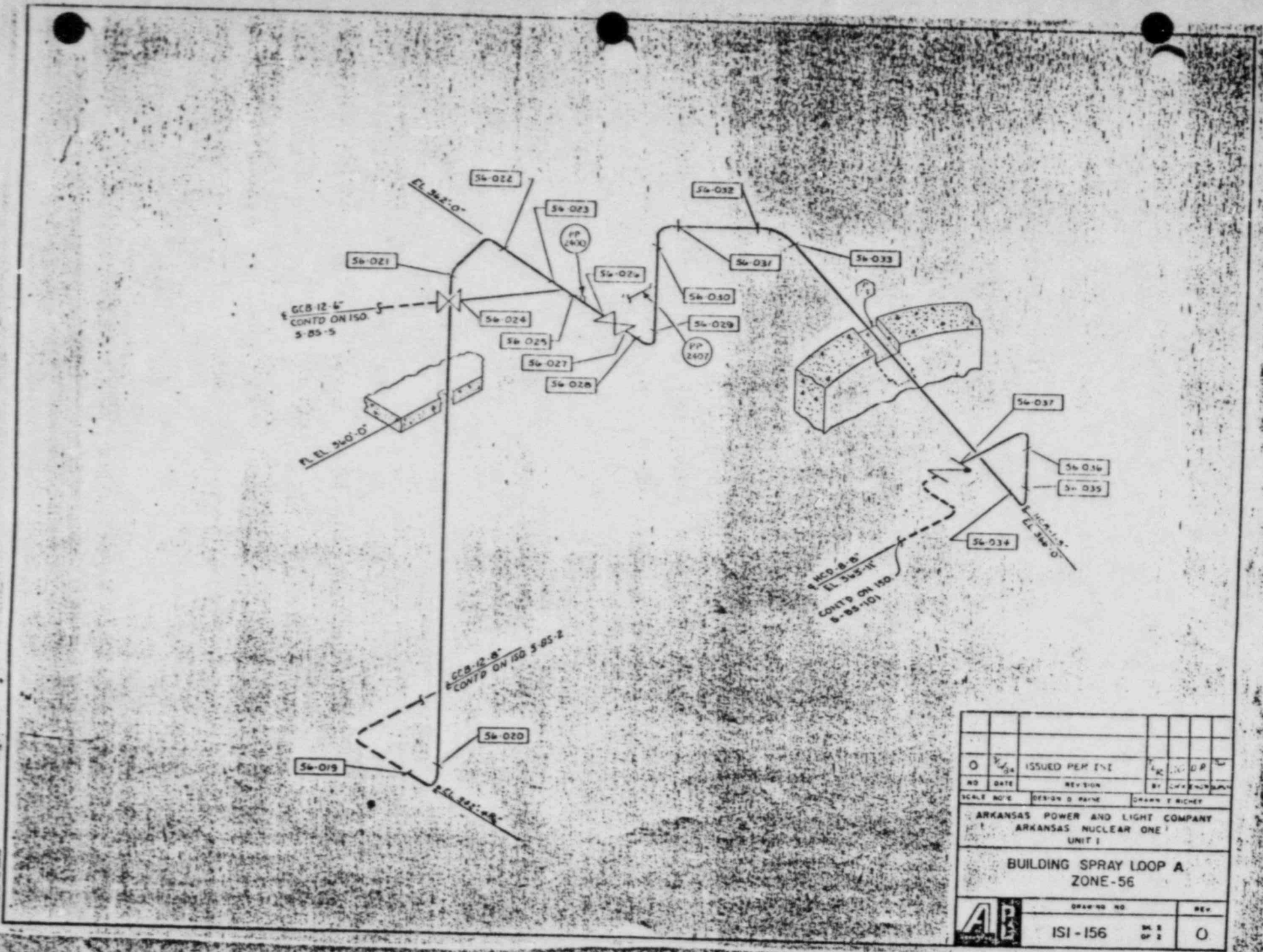
NO	DATE	REVISION	BY			

SCALE NONE | DESIGN J PAYNE | DRAWN T RITNEY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

BUILDING SPRAY LOOP B
ZONE-56

DRAWING NO	REV
ISI-156 SH 1 OF 1	0



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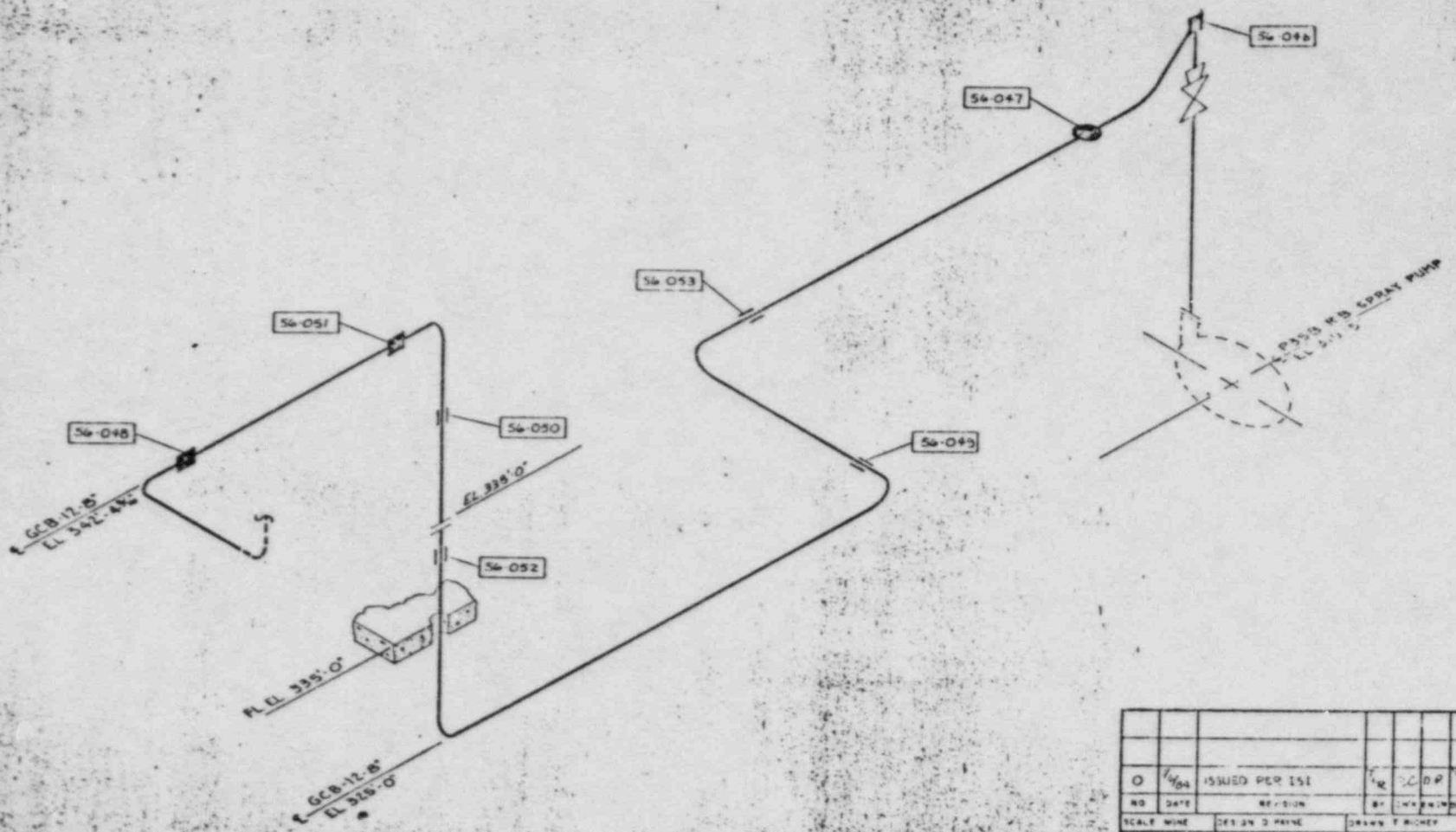
SCALE NONE | DESIGN D PAYNE | DRAWN T RICHEY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

BUILDING SPRAY LOOP A
ZONE-56

DRAWING NO: ISI-156 | REV: 0



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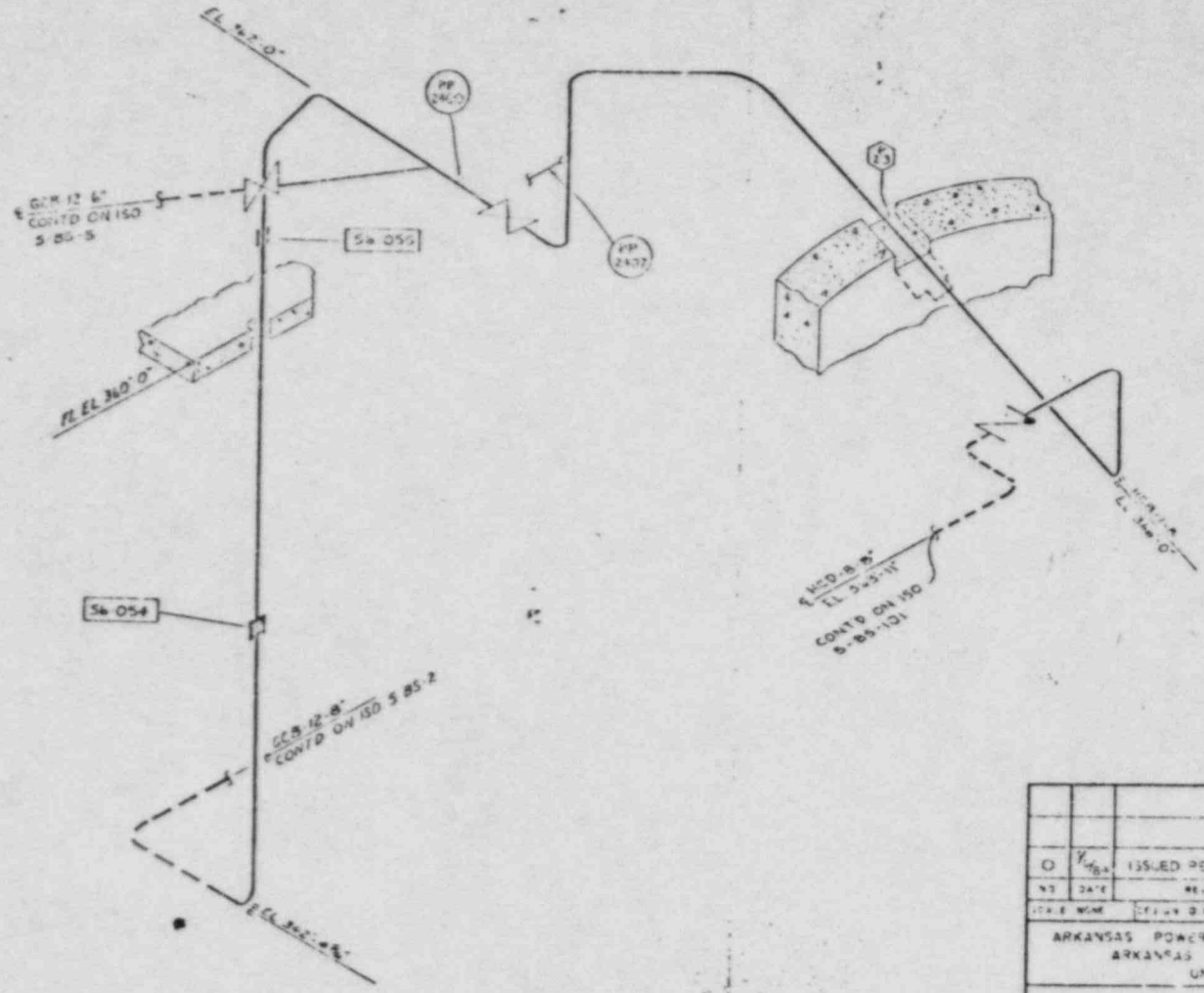
SCALE NONE | DESIGN D PAYNE | DRAWN T RICHEY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

BUILDING SPRAY LOOP B
ZONE-56

DRAWING NO	REV
ISI-156H SH 1 OF 2	0



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NO	DATE	REVISION	BY		

DRAWN: MDM | CHECKED: D PAYNE | APPROVED: T RICHEY

ARKANSAS POWER AND LIGHT COMPANY
ARKANSAS NUCLEAR ONE
UNIT 1

BUILDING SPRAY LOOP B
ZONE-56

DRAWING NO. ISI-156H | REV. 0

FORM ENG-011

ANO-UNIT-ONE

PROGRAM PLAN AND SCHEDULE

ZONE-100

COMPONENT DESCRIPTION

AUGMENTED INSPECTIONS

REVISED 12/01/83

PAGE-1 OF 4

CLASS- N/A

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
K003039	A Steam Generator Tubes	B16.10.1 BQ	X	X	X	X	X	100	ET	49030	NA	NA	NA	ID Tech. Spec. 4.18
K003040	A Steam Generator Tubes	B16.10.1 BQ	X	X	X	X	X	100	ET	49031	NA	NA	NA	ID Tech. Spec. 4.18
K003041	A Steam Generator Tubes	B16.10.2 BQ	X	X	X	X	X	100	ET	NA	NA	NA	NA	ID Profilometry Exam-Selection-AP&L
K003042	A Steam Generator Tubes	B16.10.2 BQ	X	X	X	X	X	100	ET	NA	NA	NA	NA	ID Profilometry Exam-Selection-AP&L
K003043	A Steam Generator Suppt Bolts	35050E					X	100	VT-1	NA	NA	NA	NA	Inplace
K003044	Aux. FDW-Thermal Sleeve	#1	X					100	PT	NA	NA	NA	X	
K003045	Aux. FDW-Thermal Sleeve	#1	X					100	VT-1	NA	NA	NA	X	
K003046	Aux. FDW-Thermal Sleeve	#2	X					100	PT	NA	NA	NA	X	
K003047	Aux. FDW-Thermal Sleeve	#2	X					100	VT-1	NA	NA	NA	X	
K003048	Aux. FDW-Thermal Sleeve	#3		X				100	PT	NA	NA	NA	X	
K003049	Aux. FDW-Thermal Sleeve	#3		X				100	VT-1	NA	NA	NA	X	
K003050	Aux. FDW-Thermal Sleeve	#4		X				100	PT	NA	NA	NA	X	
K003051	Aux. FDW-Thermal Sleeve	#4		X				100	VT-1	NA	NA	NA	X	
K003052	Aux. FDW-Thermal Sleeve	#5			X			100	PT	NA	NA	NA	X	
K003053	Aux. FDW-Thermal Sleeve	#5			X			100	VT-1	NA	NA	NA	X	
K003054	Aux. FDW-Thermal Sleeve	#6			X			100	PT	NA	NA	NA	X	
K003055	Aux. FDW-Thermal Sleeve	#6			X			100	VT-1	NA	NA	NA	X	
K003056	Aux. FDW-Thermal Sleeve	#7				X		100	PT	NA	NA	NA	X	
K003057	Aux. FDW-Thermal Sleeve	#7				X		100	VT-1	NA	NA	NA	X	
K004039	B Steam Generator Tubes	B16.10.1 BQ	X	X	X	X	X	100	ET	49030	NA	NA	NA	ID Tech. Spec. 4.18
K004040	B Steam Generator Tubes	B16.10.1 BQ	X	X	X	X	X	100	ET	49031	NA	NA	NA	ID Tech. Spec. 4.18
K004041	B Steam Generator Tubes	B16.10.2 BQ	X	X	X	X	X	100	ET	NA	NA	NA	NA	ID Profilometry Exam-Selection-AP&L
K004042	B Steam Generator Tubes	B16.10.2 BQ	X	X	X	X	X	100	ET	NA	NA	NA	NA	ID Profilometry Exam-Selection-AP&L
K004043	B Steam Generator Suppt Bolts	35050E					X	100	VT-1	NA	NA	NA	NA	Inplace
K004044	Aux. FDW-Thermal Sleeve	#1	X					100	PT	NA	NA	NA	X	
K004045	Aux. FDW-Thermal Sleeve	#1	X					100	VT-1	NA	NA	NA	X	
K004046	Aux. FDW-Thermal Sleeve	#2		X				100	PT	NA	NA	NA	X	
K004047	Aux. FDW-Thermal Sleeve	#2		X				100	VT-1	NA	NA	NA	X	
K004048	Aux. FDW-Thermal Sleeve	#3		X				100	PT	NA	NA	NA	X	
K004049	Aux. FDW-Thermal Sleeve	#3		X				100	VT-1	NA	NA	NA	X	
K004050	Aux. FDW-Thermal Sleeve	#4			X			100	PT	NA	NA	NA	X	
K004051	Aux. FDW-Thermal Sleeve	#4			X			100	VT-1	NA	NA	NA	X	
K004052	Aux. FDW-Thermal Sleeve	#5			X			100	PT	NA	NA	NA	X	

FORM ENG-011

ANO-UNIT-ONE

PROGRAM PLAN AND SCHEDULE

ZONE- 100

COMPONENT DESCRIPTION

AUGMENTED INSPECTIONS

REVISED 12/01/83

CLASS- N/A

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
X004053	Aux. FDW-Thermal Sleeve	#5		X			100	VT-1	NA	NA	NA	X	
X004054	Aux. FDW-Thermal Sleeve	#6			X		100	PT	NA	NA	NA	X	
X004055	Aux. FDW-Thermal Sleeve	#6			X		100	VT-1	NA	NA	NA	X	
X004056	Aux. FDW-Thermal Sleeve	#7			X		100	PT	NA	NA	NA	X	
X004057	Aux. FDW-Thermal Sleeve	#7			X		100	VT-1	NA	NA	NA	X	
X043008	1A1 RCP Flywheel	T/S 4.26				X	100	AE	NA	NA	NA	NA	Done By Others
X043009	1A1 RCP Flywheel	T/S 4.26				X	100	AE	NA	NA	NA	NA	Done By Others
X043010	1A1 RCP Studs 16Ea.	NPO-REQ	X				100	VT-1	NA	X	X	NA	Exposed Area Between Motor & Pump Bowl
X044008	1B1 RCP Flywheel	T/S 4.26				X	100	AE	NA	NA	NA	NA	Done By Others
X044009	1B1 RCP Flywheel	T/S 4.26				X	100	AE	NA	NA	NA	NA	Done By Others
X044010	1B1 RCP Studs 16Ea.	NPO-REQ	X				100	VT-1	NA	X	X	X	Exposed Area Between Motor & Pump Bowl
X045008	2A1 RCP Flywheel	T/S 4.26				X	100	AE	NA	NA	NA	NA	Done By Others
X045009	2A1 RCP Flywheel	T/S 4.26				X	100	AE	NA	NA	NA	NA	Done By Others
X045010	2A1 RCP Studs 16EA.	NPO-REQ		X			100	VT-1	NA	X	X	X	Exposed Area Between Motor & Pump Bowl
X046008	2B2 RCP Flywheel	T/S 4.26				X	100	AE	NA	NA	NA	NA	Done By Others
X046009	2B2 RCP Flywheel	T/S 4.26				X	100	AE	NA	NA	NA	NA	Done By Others
X046010	2B2 RCP Studs 16EA.	NPO-REQ			X		100	VT-1	NA	X	X	X	Exposed Area Between Motor & Pump Bowl

FORM ENG-011

ANO-UNIT-ONE

PROGRAM PLAN AND SCHEDULE

ZONE- 100

COMPONENT DESCRIPTION

AUGMENTED INSPECTIONS

REVISED 12/01/83

CLASS- N/A

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
XX00XX	Internals Handling Fixture	ANSI N14.6		X				MT PT	NA	NA	NA	X	Examination Of Load Bearing Welds
	Tripod And Turnbuckles	1978											
X009006	HPI Nozzle Knuckle Area	Repaired	X	X			100	UT	40812	X	X	X	In Zone 09-Weld Number 09-006
X011006	HPI Nozzle Knuckle Area	Repaired	X	X			100	UT	40812	X	X	X	In Zone 11-Weld Number 11-006
X013006	HPI Nozzle Knuckle Area	Repaired	X	X			100	UT	40812	X	X	X	In Zone 13-Weld Number 13-006
X020045	HPI Nozzle Thermal Sleeve S/E	No Repair	X	X	X		100	RT	NA	X	X	X	In Zone 20-Weld Number 20-045
X021064	HPI Nozzle Thermal Sleeve S/E	Repaired	X		X		100	RT	NA	X	X	X	In Zone 21-Weld Number 21-064
X022071	HPI Nozzle Thermal Sleeve S/E	Repaired	X		X		100	RT	NA	X	X	X	In Zone 22-Weld Number 22-071
X023065	HPI Nozzle Thermal Sleeve S/E	Repaired	X		X		100	RT	NA	X	X	X	In Zone 23-Weld Number 23-065

FORM ENG-011

ANO-UNIT-ONE

PROGRAM PLAN AND SCHEDULE

ZONE 100

COMPONENT DESCRIPTION

AUGMENTED INSPECTIONS

REVISED 12/01/83

CLASS-

EXAM NUMBER	PARTS EXAMINED	ITEM-CAT. NUMBER	EXAM SCHEDULE 1	2	3	4	% SCH	EXAM METHOD	CAL BLOCK	PREP-REQ S	I	WP	REMARKS
X0.5.1	Main Steam Pipe To E11 ID#6	FSAR Fig. A-8	X	X	X		100	UT	40824	X	X	X	
									UT-51	X	X	X	
X0.5.2	Main Steam E11 To Pipe ID#7	FSAR Fig. A-8	X	X	X		100	UT	40824	X	X	X	
									UT-51	X	X	X	
X0.5.3	Main Steam Pipe To E11 ID#55	FSAR Fig. A-7	X	X	X	X	100	UT	40824	X	X	X	
									UT-51	X	X	X	
X0.5.4	Main Steam Pipe To E11 ID#56	FSAR Fig. A-7	X	X	X	X	100	UT	40824	X	X	X	
									UT-51	X	X	X	
X0.5.5	Main Feedwater Pipe To E11 #23	FSAR Fig. A-15	X		X	X	100	UT	40825	X	X	X	
									UT-48	X	X	X	
X0.5.6	Main Feedwater E11 To Pipe #24	FSAR Fig. A-15	X		X	X	100	UT	40825	X	X	X	
									UT-48	X	X	X	