COMMONWEALTH EDISON COMPANY

BRAIDWOOD NUCLEAR POWER STATION

UNIT 1

INSERVICE INSPECTION AND

TESTING PROGRAM PLAN

1ST INSPECTION INTERVAL

8806210056 880613
PDR ADOCK 05000456
Q DCD

1680m/043188/1

TABLE OF CONTENTS

BRAIDWOOD NUCLEAR POWER STATION, UNIT 1, INSERVICE INSPECTION AND TESTING PROGRAM, 1ST INTERVAL

		Page
Summary		
Section 1.0	Inservice Inspection Program Plan Introduction (Revision 1)	1-1
	Table of Contents, Section 1.0	1-2
Section 2.0	Inservice Inspection Program Plan for Nondestructive Examination (Revision 1)	2-1
	Table of Contents, Section 2.0	2-2
Section 3.0	Inservice Inspection Program Plan for Component Supports (Revision 1)	3-1
	Table of Contents, Section 3.0	3-2
Section 4.0	Inservice Inspection Program Plan for Snubbers (Revision 1)	4-1
	Table of Contents, Section 4.0	4-2

SUMMARY

Inservice Inspection (ISI) of Class 1, Class 2, and Class 3 nuclear components in Unit 1 of Commonwealth Edison's Braidwood Nuclear Power Station will be performed in accordance with the requirements of the 1983 Edition and addenda through the summer 1983 Addenda of Section XI of the ASME Boiler and Pressure Vessel Code, "Rules for Inservice Inspection of Nuclear Power Plant Components".

This inspection and testing program describes the areas to be examined, examination categories, examination methods, extent and schedules to be followed during the first ten-year inspection interval together with operational testing requirements. It is anticipated that the first 120-month inspection interval will begin with the start of commercial operation* in 1987 and be completed in 1997.

This document is a summary of the Braidwood Unit 1 ISI Program. It is being submitted to the Nuclear Regulatory Commission for approval in accordance with the requirements of 10CFR50.55A (g)(4)(i).

*The Commercial Operation Date will be as defined by Federal Power Commission regulations, 18CFR101, Chapter 1, paragraph 9.D.

SECTION 1.0

INSERVICE INSPECTION AND TESTING PROGRAM PLAN INTRODUCTION

TABLE OF CONTENTS

		Page
Section 1.0 - Inservice Inspection and Testing Program Plan Introduction.		
	1.1 General Information	1-3
	1.2 System Classification	1-5

1.1

GENERAL INFORMATION

General Information

The Inservice Inspection and Testing Program Plans for Braidwood Nuclear Power Station, Unit 1 are developed in compliance with the rules and regulations of Title 10, Part 50.55a of the Code of Federal Regulations, and Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components" of the ASME Boiler and Pressure Vessel Code, 1983 Edition and addenda through the summer 1983 Addenda. Where specific requirements are determined to be impractical, relief has been requested.

The Inservice Programs for Class 1, 2, and 3 components shall be applicable for a one hundred twenty (120) month interval beginning with commercial operation.

In addition to the ASME Section XI requirements for inspection, certain augmented inspections were required by the Nuclear Regulatory Commission. The augmented requirements include High Energy Lines, Reactor Coolant Pump Flywheels and Turbine Rotors. The augmented requirements are included in these programs.

Revisions to the programs presented herein may be required due to design changes, NRC comments, identification of additional relief requests, etc. If a minor change is required which only affects a small number of pages, those pages may be revised by adding a lower case alpha designator to the current revision number. For example, a page labeled "Revision 1" would become "Revision 1a". The alpha designator may be incremented if other minor changes affect that page. In this case the page would be labeled "Revision 1b". When a change affects a significant number of pages or sufficient minor changes have been made to warrant a complete revision, the entire section or sections affected will be revised. In this case all pages will be revised by incrementing the numerical revision number and dropping all alpha designators. Thus, if page 1 was "Revision 1" and page 2 was "Revision 1d" both pages would now be "Revision 2". Note, each section of the Inservice Inspection and Testing Program Plan is revised separately.

1.2

SYSTEM CLASSIFICATION

System Classifications

Class 1 piping included in the Reactor Coolant Pressure Boundary is defined by 10CFR50.2(v). Class 2 and 3 piping was classified by Sargent and Lundy Engineering utilizing the guidelines of US NRC Regulatory Guide 1.26. All ASME piping is installed to the requirements of the ASME Boiler and Pressure Vessel Code 1974 Edition and addenda through the Summer 1975 Addenda, Section III, "Nuclear Power Plant Components".

Specific information with regards to individual component construction codes or materials can be found in the Byron/Braidwood Final Safety Analysis Report.

SECTION 2.0

INSERVICE INSPECTION PROGRAM
PLAN FOR NONDESTRUCTIVE EXAMINATION

Prepared by: Michael F. Sears
David J. Chrzanowski
Charles D. Barrett

TABLE OF CONTENTS

2.0 Inservice Inspection Program Plan for Nondestructive Examination

		Page
2.1	Program Description	2-3
2.2	Program Tables	2-5
2.3	Notes	2-9
Note 1	Main Steam Nozzle Inner Radii	2-10
Note 2	Category B-G-1 (Code Case N-419)	2-12
Note 3	Category B-G-2 (Code Case N-426)	2-13
Note 4	Eddy Current Inspection of Steam Generator U-Tubes (Code Case N-401)	2-14
Note 5	Augmented-High Energy Piping	2-15
Note 6	Augmented-Reactor Coolant Pump Flywheels	2-16
Note 7	Augmented-Pressurizer and Steam Generator Vessel Welds	2-17
Note 8	Augmented-Turbine Rotor	2-18
Note 9	Reactor Vessel Shell Welds, Limited Examinations	2-19
Note 10	Augmented-Stagnant Borated Water in Large Bore Piping	2-26
2.4	Exempt Components	2-27
2.5	Inservice Inspection Drawings	2-30
2.6	Relief Requests	2-35
NR-1	Main Steam Saddle Plates	2-36
NR-2	Cast Stainless Elbows to Cast Pumps or Valves	2-37
NR-3	Class One Valve Internal Inspection	2-38
NR-4	Pressurizer and Steam Generator (Primary Side) Nozzle Inner Radii	2-40
NR-5	Cast Stainless Elbows to Carbon Nozzles	2-42
NR-6	Reactor Coolant Piping-to-Fittings and Valves Limited Examinations (Cast Stainless)	2-44
NR-7	Class One Piping Limited Ultrasonic Examinations	2-46
NR-8	Reactor Coolant Filter and Seal Water Filter Ultrasonic Relief	2-47
NR-9	Reactor Vessel Shell Welds, Limited Examinations	2-48
NR-10	Letdown Heat Exchanger, Limited Examinations	2-56
NR-11	Excess Letdown Heat Exchanger, Limited Examinations	2-59
NR-12	Steam Generator (Secondary Side) and Residual Heat Removal Heat Exchanger Nozzle Inner Radii.	2-63
NR-13	Class One Piping Ultrasonic Geometry Limitations	2-66
NR-14	Reactor Coolant Pump Internal Inspection	2-67
NR-15	Centrifugal Charging Pump and Residual Heat Removal Pump Inaccessible Attachment Welds.	2-68
NR-16	Class Two Piping Limited Examinations	2-71
NR-17	Thin Wall Vessels Ultrasonic Relief	2-72

2.1

PROGRAM DESCRIPTION

Program Description

The Inservice Inspection Program Plan for Nondestructive Examination (NDE) of Class 1, 2, and 3 components is implemented in accordance with the requirements and intent of Subsections IWA, IWB, IWC, and IWD, Section XI, Division 1 of the ASME Boiler and Pressure Vessel Code, 1983 Edition through the summer 1983 Addenda. The NDE program developed herein will utilize Inspection Program B, (IWA-2420), Tables IWB-2412-1 and IWC-2412-1 for the first 120 month inspection interval. Where these requirements are determined to be impractical, specific requests for relief have been written. These are referenced in the applicable NDE program tables and included under subsection 2.6 of this program. Note, relief has been requested for selected components/welds. If additional relief is required, it shall be requested at a later date.

Subsection 2.2 contains the NDE program tables. These tables are presented in a tabular format consistent with the Section XI examination requirement tables. The NDE program tables include the corresponding code category, item number, and component/weld selection in conformance with Inspection Program B, ASME Section XI, 1983 Edition through the Summer 1983 Addenda. Per 10CFR50.55a(b)(2)(iv), Class 2 portions of Emergency Core Cooling Systems (ECCS), Containment Heat Removal Systems, and Residual Heat Removal Systems were selected/exempted based upon the 1974 Edition through the Summer 1975 Addenda of ASME Section XI. Also included are tables which address Alternate and Augmented Examinations. Alternate examinations are those additional examinations which are referenced in Relief Requests. Augmented examinations include the Reactor Coolant Pump Flywheels, High Energy lines, and Turbine Rotor inspections as required by the Byron/Braidwood Final Safety Analysis Report (FSAR).

Subsection 2.3 contains Notes applicable to the program tables. Notes are employed in order to convey positions and/or interpretations of Section XI requirements. Notes are referenced under the remarks column for each applicable component/weld affected.

Code exemptions for ASME Class 1, 2, and 3 components are tabulated under Subsection 2.4. Component numbers, appropriate Inservice Inspection Drawing numbers, applicable ASME Section XI exemptions and technical justification for each are presented.

Subsection 2.5 contains copies of the Braidwood Unit 1 Inservice Inspection Isometric Drawings which have been developed for all vessels, piping, pumps and valves which require volumetric and/or surface examination by this program.

2.2

PROGRAM TABLES

Program Tables

The following tables correspond to the format of those presented in ASME Section XI, Subsections IWB, IWC, and IWD. These tables contain the following information:

Page __ of __: is the consecutive and total page numbers for the NDE tables.

REVISION: is the revision number of Section 2.0 of the Inservice Inspection and Testing Program. Note, if the Revision number is followed by a lower case alpha designator, this page has been revised but the overall Section was not.

SYSTEM: refers to the component(s) and/or system(s) being addressed.

CODE CATEGORY: is the Examination Category as defined by ASME Section XI, Subarticles IWB-2500, IWC-2500, or IWD-2500.

ITEM NO: lists the Item No. as defined by ASME Section XI, Subarticles IWB-2500, IWC-2500 or IWD-2500. Note, all Item No.'s are addressed within ASME Section XI.

COMPONENT DESCRIPTION is the equipment part number or line number for the corresponding component/system being addressed.

DRAWING: identifies the applicable Inservice Inspection Isometric Drawing for the component/weld.

ISI ID: lists the individual identification number assigned to the component/weld.

EXAM METHOD VOL/SUR/VIS: identifies the nondestructive examination method(s) to be performed on the component/weld as defined by ASME Section XI or Augmented requirements.

ID SEL: identifies those component(s)/weld(s) selected for examination during the first inspection interval. The following list of alpha designators is employed to designate the type of selection made:

a - Mandatory Selection: component(s)/weld(s) required by the applicable Item No. for examination during the first inspection interval.

b - Terminal End: extremities of piping runs that connect to structures, components (such as vessels, pumps, and valves), or pipe anchors each of which act as rigid restraints or provide at least two degrees of restraint to piping thermal expansion.

c - High Stress: terminal ends and joints in each pipe or branch run connected to other components where the stress levels exceed the following limits under loads associated with specific seismic events and operational conditions:

1) Primary plus secondary stress intensity range of $2.4S_m$ for ferritic steel and austenitic steel;

2) Cumulative usage factor (U) of 0.4.

d - Dissimilar Metal: welds between combinations of:

1) carbon or low alloy steels to high alloy steels:

2) carbon or low alloy steels to high nickel alloys;

3) high alloy steels to high nickel alloys.

e - Class 2 Emergency Core Cooling Systems, Containment Heat Removal Systems, and Residual Heat Removal Systems: component/weld selections based upon ASME Section XI, 1974 Edition through Summer 1975 Addenda. In addition, the following numeric designators will be used following the alpha designator:

1) circumferential butt welds at structural discontinuities*;
2) circumferential butt welds in piping within 3 pipe diameters of the centerline of rigid pipe anchors, or anchors at penetrations of the primary reactor containment, or at rigidly anchored components;

3) branch connection weld joints;

4) longitudinal weld joints in pipe fittings (i.e., in tees, elbows, or reducers);

5) pump casing and valve body weld joints.

f - Main Steam System 8 in. Nominal Pipe Size and Smaller; additional welds at structural discontinuities* such that the total number of circumferential welds selected for examination equal 10% of the total welds in main steam piping 8 in. nominal pipe size and smaller.

1205m/0410001/1E

g - Balance of Class 2 Piping: additional welds at structural discontinuities*, such that the total number of circumferential welds (or branch connection, or socket welds) selected for examination equal 25% of the total number of circumferential welds (or branch connection or socket welds) in each Class 2 System.

h - Reactor Coolant Piping: additional circumferential butt welds (or branch connection or socket welds) such that the total number of circumferential butt welds (or branch connection or socket welds selected for examination equal 25% of the circumferential butt welds (or branch connection or socket welds) in the reactor coolant piping system.

j - Longitudinal Welds: intersecting longitudinal welds at circumferential welds selected for examination.

* Structural discontinuities are pipe weld joints to vessel nozzles, valve bodies, pump casings, pipe fittings (such as elbows, tees, reducers, flanges, etc. conforming to ANSI B16.9) and pipe branch connections and fittings.

PERIOD 1st/2nd/3rd: to be completed by the station in order to schedule selected (ID SEL) examinations during the first inspection interval and thus meet the requirements of Inspection Program B.

COMMENTS: additional information and/or identification of Notes and/or Relief Requests.

1690m/041390/17

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 1 OF 247 REVISION 1

SYSTEM: Reactor Vessel

CODE CATEGORY: B-A, Welds In Reactor Vessel

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS	
B1.10	Shell Welds											
B1.11	Circumferen-											
	ial	1RV-01	003	X			a					
			004	X			a					
		1RV-02	002	X			a				1NR-9	
B1.12	Longitudinal		N/A									
B1.20	Head Welds											
B1.21	Circumferen-											
	ial	1RV-03	002	X			a				Note 9	
		1RV-02	001	X			a				Note 9	
B1.22	Meridional		N/A									
B1.30	Shell-Flange	1RV-01	005	X			a					
B1.40	Head-Flarge	1RV-03	001	X	X		a				1NR-9	
B1.50	Repair Welds											
B1.51	Beltline		N/A									

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	PAGE 2 OF 247 REVISION 1

SYSTEM: Pressurizer

CODE CATEGORY: B-B, Pressure Retaining Welds In Vessels Other Than RPV

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS	
B2.10	Shell-Head											
B2.11	Circumferen-											
	tial	1PZR-01	8A	X			a					
			8E	X			a					
B2.12	Longitudinal		9A	X			a				1 ft. of weld	
			9D	X			a				1 ft. of weld	
B2.20	Head Welds		N/A									
B2.21	Circumferen-											
	tial		N/A									
B2.22	Meridional		N/A									
	Shell-Shell Welds											
	Circumferen-											
	tial		8B	X								
			8C	X			a				Note 7	
			8D	X								
	Longitudinal		9B	X								
			9C	X								

SYSTEM: Steam Generators | CODE CATEGORY: B-B (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B2.30	Head Welds										
B2.31	Circumferential		N/A								
B2.32	Meridional		N/A								
B2.40	Tubesheet-head	1SG-01 (1RC01BA)	SGC-1	X			a				
		1SG-02 (1RC01BB)	SGC-1	X			a				
		1SG-03 (1RC01BC)	SGC-1	X			a				
		1SG-04 (1RC01BD)	SGC-1	X			a				

SYSTEM: Heat Exchangers (Primary Side) | CODE CATEGORY: B-B (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
2.50	Head Welds										
2.51	Circumferential		N/A								
2.52	Meridional		N/A								
2.53	Longitudinal Shell (Primary)		N/A								
2.60	Tubesheet-to-Head Welds		N/A								
2.70	Longitudinal		N/A								
2.80	Tubesheet-to-Shell Welds		N/A								

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [_] 3 [_] 4 [_]	PAGE 5 OF 247 REVISION 1
SYSTEM:	CODE CATEGORY: B-D, Full Penetrating Welds of Nozzles In Vessels Inspection Program A	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	CAT SEL	PERIOD 1st	2nd	3rd	COMMENTS
											Braidwood Unit 1 [illegible] rogram B

BRIDGWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 6 OF 247 REVISION 1
SYSTEM: Reactor Vessel	CODE CATEGORY: B-D, Full Penetration Welds of Nozzles In Vessels Inspection Program B	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B-D											
3.90	Nozzle-Vessel Welds	1RV-01	006	X			a				
			007	X			a				
			008	X			a				
			009	X			a				
			010	X			a				
			011	X			a				
			012	X			a				
			013	X			a				
3.100	Nozzle Inner Radius	1RV-01	014	X			a				
			015	X			a				
			016	X			a				
			017	X			a				
			018	X			a				
			019	X			a				
			020	X			a				
			021	X			a				

SYSTEM: Pressurizer

CODE CATEGORY: B-D (Cont.)
Inspection Program B

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B3.110	Nozzle-Vessel Weld	1PZR-01	N1	X			a				
			N2	X			a				
			N3	X			a				
			N4A	X			a				
			N4B	X			a				
			N4C	X			a				
B3.120	Inner Radius	1PZR-01	N1(IR)	X			a				Relief Request 1NR4
			N2(IR)	X			a				Relief Request 1NR4
			N3(IR)	X			a				Relief Request 1NR4
			N4A(IR)	X			a				Relief Request 1NR4
			N4B(IR)	X			a				Relief Request 1NR4
			N4C(IR)	X			a				Relief Request 1NR4

SYSTEM: Steam Generators

CODE CATEGORY: B-D (Cont.)
Inspection Program B

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B3.130	Nozzle-Vessel		N/A								Nozzle and Channel head are integrally cast
B3.140	Inner Radius	1SG-01	SGN-1A	X			a				Relief Request 1NR-4
			SGN-1B	X			a				Relief Request 1NR-4
		1SG-02	SGN-1A	X			a				Relief Request 1NR-4
			SGN-1B	X			a				Relief Request 1NR-4
		1SG-03	SGN-1A	X			a				Relief Request 1NR-4
			SGN-1B	X			a				Relief Request 1NR-4
		1SG-04	SGN-1A	X			a				Relief Request 1NR-4
			SGN-1B	X			a				Relief Request 1NR-4

SYSTEM: Heat Exchangers (Primary Side)

CODE CATEGORY: B-D (Cont.) Inspection Program B

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B3.150	Nozzle-to-Vessel Welds		N/A								
B3.160	Nozzle Inside Radius Section		N/A								

SYSTEM: Reactor Coolant

CODE CATEGORY: B-E Pressure Retaining Partial Penetration Welds in Vessels

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Reactor Vessel										
B4.10	Partial Penetration Welds										
B4.11	Vessel Nozzle	1RV-03	Vent Pipe			2	a				
B4.12	CRD Nozzles	1RV-03	20 Total			2	a				(25% of Nozzles)
B4.13	Instrumentation Nozzles	1RV-02	15 Total			2	a				(25% of Nozzles)
	Pressurizer										
B4.20	Heater Penetration Welds	1PZR-01	78 Total			2	a				

SYSTEM: Reactor Coolant

CODE CATEGORY: B-F, Pressure Retaining Dissimilar Metal Welds

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Reactor Vessel										
5.10	Nozzle - Safe End Welds ≥ 4 in Nominal Pipe Size	1RV-01	022	X	X		d				
			023	X	X		d				
			024	X	X		d				
			025	X	X		d				
			026	X	X		d				
			027	X	X		d				
			028	X	X		d				
			029	X	X		d				
5.20	Nozzle-to-Safe End < 4 in Nominal Pipe Size		N/A								
5.30	Nozzle-to-Safe End Socket Welds		N/A								

SYSTEM: Pressurizer Vessel

CODE CATEGORY: B-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B5.40	Nozzle-to-Safe End Welds ≥ 4 in. Nominal Pipe Size	1PZR-01	SE-1	X	X		d				
			SE-2	X	X		d				
			SE-3	X	X		d				
			SE-4	X	X		d				
			SE-5	X	X		d				
			SE-6	X	X		d				
B5.50	Nozzle-to-Safe End < 4 in Nominal Pipe Size		N/A								
B5.60	Nozzle-to-Safe End Socket Welds		N/A								

SYSTEM: Steam Generators | CODE CATEGORY: B-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
5.70	Nozzle - Safe End Welds > 4 in Nominal Pipe Size	1RC-01	8	X	X		d				Relief Request 1NR-5
			9	X	X		d				Relief Request 1NR-5
		1RC-02	19	X	X		d				Relief Request 1NR-5
			23	X	X		d				Relief Request 1NR-5
		1RC-03	8	X	X		d				Relief Request 1NR-5
			9	X	X		d				Relief Request 1NR-5
		1RC-04	9	X	X		d				Relief Request 1NR-5
			10	X	X		d				Relief Request 1NR-5
5.80	Nozzle-Safe End Welds < 4 in Nominal Pipe Size		N/A								
5.90	Nozzle-Safe End Socket Welds		N/A								

SYSTEM: Heat Exchangers

CODE CATEGORY: B-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B5.100	Nozzle-to-Safe End > 4 in Nominal Pipe Size		N/A								
B5.110	Nozzle-to-Safe End < 4 in Pipe Size		N/A								
B5.120	Nozzle-to-Safe End Socket Welds		N/A								

SYSTEM: All

CODE CATEGORY: B-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Piping										
5.130	Nominal Pipe Size > 4 in Dissimilar Metal Butt Welds		N/A								
5.140	Nominal Pipe Size < 4 in Dissimilar Metal Butt Welds		N/A								
5.150	Dissimilar Metal Socket Welds		N/A								

SYSTEM: Reactor Vessel

CODE CATEGORY: B-G-1 Bolting Larger Than 2 Inches In Diameter

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Reactor Vessel										
B6.10	Closure Head Nuts	1RV-01	54 Total		X		a				
B6.20	Closure Head Studs in place		54 Total	X							
B6.30	Closure Head Studs, Removed		54 Total	X	X		a				
B6.40	Threads in Flange		54 Total	X			a				
B6.50	Closure Washers Bushings		All			1	a				

SYSTEM: Reactor Coolant

CODE CATEGORY: B-G-1 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Pressurizer										
B6.60	Bolts and Studs		N/A								
B6.70	Flange Surfaces, when connection disassembled		N/A								
B6.80	Nuts, Bushings, and Washers		N/A								
	Steam Generators										
B6.90	Bolts and Studs		N/A								
B6.100	Flange Surfaces when connection disassembled		N/A								
B6.110	Nuts, Bushings, and Washers		N/A								

SYSTEM: Heat Exchangers | CODE CATEGORY: B-G-1 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Heat Exchangers										
6.120	Bolts and Studs		N/A								
6.130	Flange Surfaces, when connection disassembled		N/A								
6.140	Nuts, Bushings, and Washers		N/A								
	Piping										
6.150	Bolts and Studs		N/A								
6.160	Flange Surfaces when connection disassembled		N/A								
6.170	Nuts, Bushings, and Washers		N/A								

SYSTEM: Reactor Coolant

CODE CATEGORY: B-G-1 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Pumps										
6.180	Bolts and Studs	1RCP-01	1RC01PA (24 Ttl)	X			a				Note 2
			1RC01PB (24 Ttl)	X							
	Coolant Pumps		1RC01PC (24 Ttl)	X							
			1RC01PD (24 Ttl)	X							
6.190	Flange Surfaces, when connection disassembled	1RCP-01	1RC01PA			1	a				Note 2
			1RC01PB			1					
			1RC01PC			1					
			1RC01PD			1					
6.200	Nuts, Bushings, and Washers	1RCP-01	1RC01PA			1	a				Note 2
			1RC01PB			1					
			1RC01PC			1					
			1RC01PD			1					

SYSTEM: Reactor Coolant

CODE CATEGORY: B-G-1 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Valves										
6.210	Bolts and Studs		1RC8001A (24)	X			a				Note 2
			1RC8002A (24)	X							
			1RC8001B (24)	X							
			1RC8002B (24)	X							
			1RC8001C (24)	X							
			1RC8002C (24)	X							
			1RC8001D (24)	X							
			1RC8002D (24)	X							
6.220	Flange Surfaces When Connection Disassembled		1RC8001A			1	a				Note 2
			1RC8002A			1					
			1RC8001B			1					
			1RC8002B			1					
			1RC8001C			1					
			1RC8002C			1					
			1RC8001D			1					
			1RC8002D			1					

SYSTEM: Reactor Coolant

CODE CATEGORY: B-G-1 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B6.230	Nuts, Bushings and Washers		1RC8001A			1	a				Note 2
			1RC8002A			1					
			1RC8001B			1					
			1RC8002B			1					
			1RC8001C			1					
			1RC8002C			1					
			1RC8001D			1					
			1RC8002D			1					

SYSTEM: Reactor Coolant

CODE CATEGORY: B-G-2 Bolting 2 Inches and Smaller In Diameter

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Reactor Vessel										
7.10	Bolts, Studs Nuts		Marmon Clamps and Greylock Coupling (19 Items)			1	a				
	Pressurizer										
7.20	Bolts, Studs Nuts		Manway Bolting (16 Items)			1	a				
	Steam Generators										
7.30	Bolts, Studs Nuts		Manway Bolting								
			1RC01BA (32 Ttl)			1	a				
			1RC01BB (32 Ttl)			1	a				
			1RC01BC (32 Ttl)			1	a				
			1RC01BD (32 Ttl)			1	a				
7.40	Heat Exchangers Bolts, Studs Nuts		N/A								

SYSTEM: Chemical & Volume Control

CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Piping										
7.50	1CV14GA-1.5" (4)	1CV-06	Flange			1	a				
	1CV14GB-1.5" (4)	1CV-03	Flange			1	a				
	1CV14GC-1.5" (4)	1CV-16	Flange			1	a				
	1CV14GD-1.5" (4)	1CV-06	Flange			1	a				

SYSTEM: Reactor Coolant

CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Piping										
7.30	1RC09FA-3" (4)	1RC-08	Oriface Flange			1	a				
	1RC09FB-3" (4)	1RC-10	Oriface Flange			1					
	1RC09FC-3" (4)	1RC-13	Oriface Flange			1					
	1RC09FD-3" (4)	1RC-18	Oriface Flange			1					
	1RC22AA-1.5" (4)	1RC-23	Oriface Flange			1					
	1RC22AB-1.5" (4)	1RC-19	Oriface Flange			1					
	1RC22AC-1.5" (4)	1RC-27	Oriface Flange			1					
	1RC22AD-1.5" (4)	1RC-20	Oriface Flange			1					
	1RC43AA-2.0" (8)	1RC-39	Oriface Flange			1	a				
	1RC43AB-2.0" (8)	1RC-38	Oriface Flange			1	a				
	1RC43AC-2.0" (8)	1RC-40	Oriface Flange			1	a				
	1RC43AD-2.0" (8)	1RC-25	Oriface Flange			1	a				

SYSTEM: Reactor Coolant (RY)

CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Piping										
7.50	1RY03BA-6" (12)	1RC-32	Flange			1	a				
	1RY03BB-6" (12)	1RC-32	Flange			1	a				
	1RY03BC-6" (12)	1RC-32	Flange			1	a				
	1RY76A-2" (8)	1SI-23	Flange			1	a				

SYSTEM: Safety Injection

CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Piping										
37.50	1SI08HA-2.0" (8)	1SI-19	Flange			1	a				
	1SI08HB-2.0" (8)	1SI-18	Flange			1					
	1SI08HC-2.0" (8)	1SI-20	Flange			1					
	1SI08HD-2.0" (8)	1SI-20	Flange			1					
	1SI08JA-1.5" (4)	1SI-19	Flange			1	a				
	1SI08JB-1.5" (4)	1SI-17	Flange			1	a				
	1SI08JC-1.5" (4)	1SI-20	Flange			1					
	1SI08JD-1.5" (4)	1SI-20	Flange			1					

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 27 OF 247 REVISION 1
SYSTEM: Reactor Coolant	CODE CATEGORY: B-G-2 (Cont.)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Pumps										
B7.60	Bolts, Studs										
	Nuts										
	1RC01PA	1RCP-01	Shaft			1	a				Note 3
	(36)		Seal								
			Bolting								
	1RC01PB	1RCP-01	Shaft			1					
	(36)		Seal								
			Bolting								
	1RC01PC	1RCP-01	Shaft			1					
	(36)		Seal								
			Bolting								
	1RC01PD	1RCP-01	Shaft			1					
	(36)		Bolting								

SYSTEM: Chemical & Volume Control

CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Valves										
B7.70	1CV8378A (16)	1RC-07				1	a				Note 3
	1CV8378B (16)	1RC-07				1					
	1CV8379A (16)	1RC-07				1					
	1CV8379B (16)	1RC-07				1					
	1CV459 (6)	1CV-01				1	a				Note 3
	1CV460 (6)	1CV-01				1					
	1CV8145 (6)	1CV-12				1	a				Note 3

SYSTEM: Reactor Coolant

CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Valves										
B7.70	Bolts, Studs										
	Nuts										
	1RC8074A (16)	1RC-08				1	a				Note 3
	1RC8074B (16)	1RC-10				1					
	1RC8074C (16)	1RC-13				1					
	1RC8074D (16)	1RC-18				1					
	1RC8003A (12)	1RC-06				1	a				Note 3
	1RC8003B (12)	1RC-09				1					
	1RC8003C (12)	1RC-12				1					
	1RC8003D (12)	1RC-15				1					
	1RC8036A (6)	1RC-41				1	a				Note 3
	1RC8036B (6)	1RC-41				1					
	1RC8036C (6)	1RC-29				1					
	1RC8036D (6)	1RC-29				1					
	1RC8037A (6)	1RC-36				1					
	1RC8037B (6)	1RC-31				1					

SYSTEM: Reactor Coolant

CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B7.70	Bolts, Studs Nuts										
	1RC8037C (6)	1RC-42				1					
	1RC8037D (6)	1RC-37				1					
	1RC8073A (16)	1RC-8				1					
	1RC8073B (16)	1RC-10				1					
	1RC8073C (16)	1RC-13				1					
	1RC8073D (16)	1RC-18				1					
	1RC8085 (16)	1RC-07				1	a				Note 3

SYSTEM: Reactor Coolant (RY)

CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Valves										
B7.70	1RY022 (6)	1RC-17				1	a				Note 3
	1RY023 (6)	1RC-17				1					
	1RY024 (6)	1RC-14				1					
	1RY025 (6)	1RC-14				1					
	1RY455A (6)	1RC-35				1	a				Note 3
	1RY455B (8)	1RC-17				1	a				Note 3
	1RY455C (8)	1RC-14				1					
	1RY456 (6)	1RC-35				1					
	1RY8000-A (16)	1RC-35				1	a				Note 3
	1RY8000-B (14)	1RC-35				1	a				Note 3
	1RY8010-A (8)	1RC-32				1	a				Note 3
	1RY8010-B (8)	1RC-32				1					
	1RY8010-C (8)	1RC-32				1					

SYSTEM: Residual Heat (RH)

CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Valves										
B7.70	1RH8701A-1 (18)	1RH-02				1	a				Note 3
	1RH8701B-2 (18)	1RH-02				1					
	1RH8702A-1 (18)	1RH-01				1					
	1RH8702B-2 (18)	1RC-11				1					

SYSTEM: Safety Injection | CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Valves										
B-G-2	Bolts, Nuts										
	Studs										
	1SI8808A (18)	1SI-01				1	a				Note 3
	1SI8808B (18)	1SI-05				1					
	1SI8808C (18)	1SI-09				1					
	1SI8808D (18)	1SI-13				1					
	1SI8810A (6)	1SI-19				1	a				Note 3
	1SI8810B (6)	1SI-18				1					
	1SI8810C (6)	1SI-20				1					
	1SI8810D (6)	1SI-20				1					
	1SI8815 (16)	1SI-07				1	a				Note 3
	1SI8818A (16)	1SI-03				1	a				Note 3
	1SI8818B (16)	1SI-06				1					
	1SI8818C (16)	1SI-10				1					
	1SI8818D (16)	1SI-14				1					
	1SI8841A (16)	1SI-02				1	a				Note 3

SYSTEM: Safety Injection | CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B7.70	Bolts, Nuts Studs										
	1SI8841B (16)	1SI-11				1					
	1SI8948A (18)	1SI-01				1	a				Note 3
	1SI8948B (18)	1SI-05				1					
	1SI8948C (18)	1SI-09				1					
	1SI8948D (18)	1SI-13				1					
	1SI8949A (16)	1SI-02				1	a				Note 3
	1SI8949B (16)	1RC-22				1					
	1SI8949C (16)	1SI-11				1					
	1SI8949D (16)	1RC-22				1					
	1SI8956A (18)	1SI-01				1					
	1SI8956B (18)	1SI-05				1					
	1SI8956C (18)	1SI-09				1					
	1SI8956D (18)	1SI-13				1					

SYSTEM: Reactor Vessel

CODE CATEGORY: B-G-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B7.80	CRD Housing Bolts, Nuts Studs		N/A								

SYSTEM: RPV; PZR, SG, HX

CODE CATEGORY: B-H Integral Attachments for Vessels

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B8.10	Reactor Vessel Integrally Welded Attachments		N/A								
B8.20	Pressurizer Integrally Welded Attachments	1PZR-01	7		X		a				
B8.30	Steam Generator Integrally Welded Attachments		N/A								
B8.40	Heat Exchangers Integrally Welded Attachments		N/A								

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J Pressure Retaining Welds In Piping

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.10	Nominal Pipe Size ≥ 4 in										
B9.11	1RC01AA-29"	1RC-01	1	X	X		h				
			3	X	X						
			4	X	X		h				1NR-2
	1RC02AA-31		10	X	X		h				1NR-6
			11	X	X						
			12	X	X						
			16	X	X		h				1NR-6
			17	X	X		h				1NR-2
	1RC03AA-27½		18	X	X		h				1NR-6
			22	X	X		h				1NR-6
			23	X	X						
			30	X	X		h				1NR-6
			31	X	X						
	1RC03AB-27½	1RC-02	1	X	X						
			5	X	X						
			6	X	X						
			12	X	X						
			13	X	X						
	1RC01AB-29		15	X	X						
			17	X	X						
			18	X	X						
	1RC02AB-31		24	X	X						
			25	X	X						
			26	X	X						
			30	X	X						
			31	X	X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.11											
	1RC01AC-29"	1RC-03	1	X	X						
			3	X	X						
			4	X	X						
	1RC02AC-31		10	X	X						
			11	X	X						
			12	X	X						
			16	X	X						
			17	X	X						
	1RC03AC-27½		18	X	X						
			22	X	X						
			23	X	X						
			31	X	X						
			32	X	X						
	1RC01AD-29"	1RC-04	1	X	X						
			4	X	X						
			5	X	X						
	1RC02AD-31"		11	X	X						
			12	X	X						
			13	X	X						
			17	X	X						
			18	X	X						

SYSTEM: Reactor Coolant | CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1RC03AD-27½	1RC-04	19	X	X						
			23	X	X						
			24	X	X						
	1RC03AD-27½		31	X	X						
			32	X	X						
	1RY11A-14	1RC-05	1	X	X		bc				
			2	X	X		h				
			3	X	X		h				
			4	X	X		h				
			6	X	X						
			7	X	X						
			8	X	X		bc				
	1RC21AA-8"	1RC-06	1	X	X		h				
			2	X	X		h				
			3	X	X		h				
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X		h				
			11	X	X		h				
			12	X	X		h				
			13	X	X		h				
			14	X	X		h				
	1RC21BA-8"		15	X	X						
			16	X	X		h				
			17	X	X		h				

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1RC21AB-8"	1RC-09	1	X	X						
			2	X	X						
			3	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
	1RC21BB-8"		15	X	X						
			16	X	X						
			17	X	X						
	1RC04AB-12"	1RC-11	1	X	X		bc				
			2	X	X		c				
			3	X	X						
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1RC05AB-6"		10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
	1RH01AB-12"		16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			27	X	X						
			28	X	X						
	1RC21AC-8"	1RC-12	1	X	X						
			2	X	X						
			3	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1RY01AB-4"	1RC-14	29	X	X						
			30	X	X						
			31	X	X						
			32	X	X						
			33	X	X						
			34	X	X						
			35	X	X						
			36	X	X						
			37	X	X						
			38	X	X						
	1RC21AD-8"	1RC-15	1	X	X						
			2	X	X						
			3	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
	1RC21BD-8	1RC-15	15	X	X						
			16	X	X						
			17	X	X						
	1RY01C-4"	1RC-16	1	X	X		bc				1NR-13

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1RY01B-6"	1RC-16	2	X	X		c				Relief Request 1NR-7
			3	X	X		c				
			4	X	X		c				
			5	X	X		c				Relief Request 1NR-7
			6	X	X		c				
			7	X	X		c				
			8	X	X						
			9	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			25A	X	X						
	1RC24AA-4"	1RC-17	1	X	X						
			2	X	X						
			3	X	X						
			4	X	X						
			5	X	X		h				
			6	X	X						
			8	X	X						
			9	X	X		h				

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1RC24AA-4"	1RC-17	10	X	X		h				
			11	X	X		h				
			12	X	X						
			13	X	X		h				
	1RY01AA-4"		14	X	X		h				
			15	X	X		h				
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
	1RY01B-6"		23	X	X						
			24	X	X						
			27	X	X						
			28	X	X						
			29	X	X						
			30	X	X						
			31	X	X						
			32	X	X						
			33	X	X						
			35	X	X						
			36	X	X						
	1RY01AB-4"		25	X	X						
			26	X	X						
	1RC35AB-6"	1RC-22 (Loop 4)	1-4	X	X						
			2-4	X	X						
			3-4	X	X						
			4-4	X	X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.11	1RC35AB-6"	1RC-22 (Loop 4)	5-4	X	X						
	1RC05AA-6"	1RC-22 (Loop 2)	1-2	X	X						
			2-2	X	X		h				
			3-2	X	X		h				
			4-2	X	X		h				
			5-2	X	X						
	1RY03AA-6"	1RC-32	1	X	X		bc				Relief Request 1NR-7
			2	X	X						
			3	X	X		h				
			4	X	X		h				
			5	X	X		h				
	1RY03BA-6		6	X	X						
	1RY03AB-6		7	X	X		bc				Relief Request 1NR-7
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
	1RY03BB-6		12	X	X						
	1RY03AC-6		13	X	X		bc				Relief Request 1NR-7
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
	1RY03BC-6"		18	X	X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.11	1RY02A-6"	1RC-35	1	X	X		bc				Relief Request 1NR-7
			2	X	X		h				
			3	X	X						
			4	X	X		h				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 48 OF 247 REVISION 1
SYSTEM: RH	CODE CATEGORY: B-J (Cont.)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1RH01AB-12"	1RH-01	1	X	X						
			2	X	X						
			3	X	X						
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
	1RH01AA-12"	1RH-02	1	X	X		h				
			2	X	X		h				
			3	X	X		h				
			4	X	X		h				
			5	X	X		h				
			6	X	X						
			7	X	X		h				
			8	X	X		h				
			9	X	X		h				
			10	X	X		h				
			11	X	X		h				
			12	X	X		h				

SYSTEM: RH

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1RH01AA-12"	1RH-02	13	X	X		h				
			14	X	X		h				
			15	X	X		h				
			16	X	X		h				
			17	X	X		h				
			18	X	X		h				
			19	X	X		h				
			20	X	X		h				
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			27	X	X						
			28	X	X						
			29	X	X						
			30	X	X						
			31	X	X						
			32	X	X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1SI09BA-10	1SI-01	1	X	X		h				
			2	X	X		h				
			3	X	X		h				
			4	X	X		h				
			5	X	X		h				
			6	X	X						
			7	X	X		h				
			8	X	X		h				
			9	X	X						
			10	X	X		h				
			11	X	X		h				
			12	X	X		h				
			13	X	X		h				
			14	X	X		h				
			15	X	X						
			16	X	X		h				
			17	X	X		h				
			18	X	X		h				
			19	X	X		h				
			20	X	X						
			21	X	X		h				
			22	X	X		h				
			23	X	X		h				
			24	X	X						
			25	X	X		h				
			26	X	X		h				
			27	X	X						
			28	X	X		h				
			29	X	X						
			30	X	X						
			31	X	X						
			32	X	X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1RC29AA-10	1SI-01	33	X	X						
			34	X	X		h				
			35	X	X		h				
			36	X	X		h				
			37	X	X						
	1SIA4B-8"	1SI-02	11	X	X		h				
			12	X	X		h				
			13	X	X		h				
			15	X	X		h				
			16	X	X		h				
			17	X	X						
			17A	X	X		h				
			18	X	X		h				
			19	X	X						
			20	X	X		h				
			21	X	X		h				
			22	X	X		h				
			23	X	X		h				
			24	X	X		h				
			25	X	X		h				
			26	X	X		h				
			27	X	X		h				
			28	X	X		h				
			29	X	X		h				
			30	X	X		h				
			31	X	X		h				
			32	X	X						
			33	X	X						
			34	X	X						
			35	X	X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1RC35AA-6	1SI-02	36	X	X						
			37	X	X						
			38	X	X		h				
			39	X	X		h				
			40	X	X		h				
			41	X	X		h				
	1RC04AA-12		42	X	X						
			43	X	X						
			44	X	X		h				
			45	X	X		h				
			46	X	X		h				
			47	X	X		c				
			48	X	X		bc				
	1SI05DA-6	1SI-03	1	X	X		h				
			2	X	X		h				
			3	X	X		h				
			4	X	X		h				
			5	X	X		h				
			7	X	X		h				
			8	X	X		h				
			9	X	X		h				
			10	X	X		h				

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1SI05DA-6	1SI-03	11	X	X		h				
			12	X	X		h				
			13	X	X		h				
			14	X	X		h				
			15	X	X		h				
			16	X	X		h				
			17	X	X		h				
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			26A	X	X						
			27	X	X						
	1SI09BB-10"	1SI-05	1	X	X						
			2	X	X						
			3	X	X						
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						

SYSTEM: SO

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.11	1SI09BB-10"	1SI-05	15	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
	1RC29AB-10"		26	X	X						
			27	X	X						
			28	X	X						
			29	X	X						
			30	X	X						
	1SI05DB-6	1SI-06	1	X	X						
			2	X	X						
			3	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			8A	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1SI05DB-6	1SI-06	18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
	1SI09BC-10"	1SI-09	1	X	X						
			2	X	X						
			3	X	X						
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
	1RC29AC-10		17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1SI05DC-6"	1SI-10	1	X	X						
			2	X	X						
			3	X	X						
			4	X	X						
			5	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			18A	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
	1SI04D-8"	1SI-11	1	X	X		n				
			3	X	X		h				
			4	X	X		h				
			5	X	X		h				
			6	X	X		h				
			7	X	X		h				
			8	X	X		h				
			8A	X	X		h				

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1SI04D-8"	1SI-11	9	X	X		h				
			10	X	X		h				
			11	X	X		h				
			12	X	X		h				
			13	X	X		h				
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
	1SI09BD-10	1SI-13	1	X	X						
			2	X	X						
			3	X	X						
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			9A	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1SI09BD-10	1SI-13	17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			27	X	X						
	1SI05DD-6"		28	X	X						
			29	X	X						
			30	X	X						
			31	X	X						
			32	X	X						
	1RC29AD-10		33	X	X						
			34	X	X						
			35	X	X						
			36	X	X						
			37	X	X						
	1SI05DD-6	1SI-14	2	X	X						
			3	X	X						
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			10A	X	X						

SYSTEM: SI/All

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.11	1SI05DD-6	1SI-14	11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
			18	X	X						
B9.12	Longitudinal Welds		N/A								

SYSTEM: Chemical & Volume Control(CV)

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.20	Nominal Pipe < 4 in										
B9.21	1CVB7A-3"	1CV-01	1		X		h				
			2		X		h				
			3		X		h				
			4		X		h				
			5		X		h				
			6		X		h				
			7		X		h				
			8		X		h				
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			16		X						
			17		X						
			18		X						

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 | | 3 | | 4 | |	PAGE 61 OF 247 REVISION 1

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.21	1RC45AA-3	1RC-01	28		X						
	1RC46AA-3		29		X		h				
	1RC47AB-3	1RC-02	8		X						
	1RC45AB-3		11		X		c				
	1RC46AC-3	1RC-03	27		X						
	1RC45AC-3		30		X		c				
	1RC46AD-3	1RC-04	27		X						
	1RC45AD-3		29		X						
	1RC28A-3"	1RC-07									
		(Loop 1)	3-1		X		h				
			4-1		X		h				
			5-1		X		h				
			6-1		X						
			7-1		X						
			8-1		X						
			9-1		X						
			10-1		X						
	1RC37A-3"										
		(Loop 2)	3-2		X		h				
			4-2		X		h				
			5-2		X						
			6-2		X						
			7-2		X						
	1RC36A-3"	(Loop 3)	1-3		X						
			2-3		X						
			3-3		X						
			4-3		X						
			5-3		X						
			6-3		X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.21	1RC36A-3"	1RC-07	7-3		X						
		(Loop 3)	8-3		X						
			9-3		X		h				
			10-3		X		h				
			11-3		X		h				
			12-3		X		h				
			13-3		X		h				
			14-3		X		h				
			15-3		X		h				
	1CV10DA-3	1RC-07	1-1		X						
		(Loop 1)	2-1		X		h				
	1CV10DB-3	(Loop 2)	1-2		X						
			2-2		X						
	1RC09EA-3"	1RC-08	1		X						
			2		X		h				
	1RC09FA-3"		3		X		h				
			4		X		h				
			5		X		h				
			7		X		h				
			8		X		h				
			9		X		h				
			10		X		h				
			11		X		h				
			12		X		h				
			13		X		h				
			14		X		h				
			15		X		h				
			16		X		h				
			17		X						
			18		X						

SYSTEM: Reactor Coolant | CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.21	1RC09FA-3"	1RC-08	19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			28		X						
			29		X						
			30		X						
			31		X						
			32		X						
			33		X						
			34		X						
	1RC09FB-3"	1RC-10	1		X						
			2		X						
			3		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.21	1RC09FB-3"	1RC-10	16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			28		X						
			29		X						
			30		X						
			31		X						
			32		X						
			33		X						
	1RC09EC-3	1RC-13	1		X						
			2		X						
	1RC09FC-3		3		X						
			4		X						
			5		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.21	1RC09FC-3	1RC-13	14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			28		X						
			29		X						
			30		X						
			31		X						
			32		X						
			33		X						
			34		X						
	1RC09ED-3"	1RC-18	1		X						
			2		X						
	1RC09FD-3"		3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.21	1RC09FD-3"	1RC-18	11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			28		X						
			29		X						
			30		X						
			31		X						
			32		X						
			33		X						
			34		X						
	1RC09EB-3"	1RC-33	23		X						
			24		X						
	1RY02B-3"	1RC-35	5		X						
			6		X						
			7		X						
			8		X						
			9		X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.21	1RY02B-3"	1RC-35	10		X						
			11		X		c				
			12		X		c				
			13		X		c				
	1RY06A-3"		15		X						
			16		X						
			17		X		h				
			18		X		h				
			19		X		h				
			20		X		c				
			21		X		c				
			22		X		c				

SYSTEM: Safety Injection

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.21	1SI08E-3"	1SI-07	1		X						
			2		X						
			3		X						
	1SI08FA-3"		4		X		h				
			5		X		h				
			6		X		h				
			7		X		h				
			8		X		h				
			9		X		h				
			10		X		h				
			11		X		h				
			12		X		h				
			13		X		h				
			14		X		h				
	1SI08FB-3		15		X						
			15A		X						
			16		X						
			17		X						
			18		X						
			18A		X						
			19		X						
			20		X						
			21		X						
			22		X						
	1SI08FA-3	1SI-08	1		X		h				
			2		X		h				
			3		X		h				
			4		X		h				
			5		X		h				
			6		X		.h				

SYSTEM: Safety Injection/All

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.21	1SI08FA-3	1SI-08	7		X		h				
			8		X		h				
			9		X		h				
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			27A		X						
			27B		X						
			28		X						
			28A		X						
			30		X						
			31		X						
B9.22	Longitudinal Welds		N/A								

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.30	Branch Pipe Connections										
B9.31	Nominal Pipe Size > 4 in.										
	1RC04AA-12	1RC-01	2	X	X						
	1RC29AA-10		27	X	X		C				
	1RC29AB-10	1RC-02	9	X	X		C				
	1RC05AA-6		16	X	X						
	1RC04AB-12	1RC-03	2	X	X						
	1RC24AB-4		25	X	X						
	1RC29AB-10		28	X	X		C				
	1RC35AB-6	1RC-04	2	X	X						
	1RY11A-14		3	X	X		C				
	1RC24AA-4		25	X	X						
	1RC29AD-10		30	X	X		C				

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.32	Nominal Pipe Size < 4 in.										
	1RC 2½"	1RC-01	5		X						
	1RC13AA-2		7		X		c				
	1RC16AA-2		13		X		c				
	1RC09FA-3		14		X		c				
	1RC14AA-2		15		X		c				
	1RC17AA-2		19		X		c				
	1RC 2½"		21		X						
	1RC28A-3		24		X		c				
	1RC46AA-3		25		X						
	1RC45AA-3		26		X		bc				
	1RC 2½"	1RC-02	2		X						
	1RC17AB-2		4		X		c				
	1RC46AB-3		7		X						
	1RC45AB-3		10		X		c				
	1RC37A-3		14		X		c				
	1RC13AB-2		20		X		c				
	1RC 2½"		21		X						
	1RC16AB-2		27		X		c				
	1RC09FB-3		28		X		c				
	1RC14AB-2		29		X		c				
	1RC13AC-2	1RC-03	5		X		c				
	1RC 2½"		6		X						
	1RC16AC-2		13		X		c				
	1RC04FC-3		14		X		c				

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.32	1RC14AC-2	1RC-03	15		X		C				
	1RC 2½"		19		X						
	1RC17AC-2		21		X		C				
	1RC36A-3		24		X						
	1RC46AC-3		26		X						
	1RC45AC-3		29		X		C				
	1RC13AD-2	1RC-04	6		X		C				
	1RC 2½"		7		X						
	1RC16AD-2		14		X		C				
	1RC09FD-3		15		X		C				
	1RC14AD-2		16		X		C				
	1RC17AD-2		20		X		C				
	1RC 2½"		21		X						
	1RC46AD-3		26		X						
	1RC45AD-3		28		X		C				
	1RC22AA-1.5	1RC-06	4		X						
	1RC17BA-2	1RC-08	6		X						
	1RC22AB-1.5	1RC-09	4		X						
	1RC22AC-1.5	1RC-12	4		X						
	1RC22AD-1.5	1RC-15	4		X						

SYSTEM: RC/SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.32	1RY01B-2	1RC-16	10		X						
	1RY18A-2		15		X						
	1RC26A-2	1RC-17	7		X						
	1RY76A-2	1RC-35	2A		X						
	1SI03FA-2	1SI-02	14		X						
	1SI18FA-2	1SI-03	6		X		bc				
	1SI18FB-2	1SI-06	4		X						
	1SI18FC-2	1SI-10	6		X		bc				
	1SI03DB-2	1SI-11	2		X						
	1SI18FD-2	1SI-14	17		X		bc				
	1RC17BC-2	1RC-13	6		X						
	1SI08GA-1.5	1SI-08	29		X						

SYSTEM: Chemical [illegible]lume Control(CV)

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	Socket Welds										
B9.40	1CV45B-2"	1CV-02	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
	1RY18A-2"		13		X		C				
			14		X		C				
			15		X		C				
			16		X		C				
			17		X		C				
			18		X		C				
			19		X		C				
			20		X						
	1CV14GB-1½"	1CV-03	1		X		BC				
			2		X						
	1CV14FB-2"		3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						

SYSTEM: Chemical & Volume Control(CV)

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1CV14FB-2"	1CV-03	11		X						
			12		X						
			13		X						
	1CVA6AB-2"	1CV-04	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
	1CVA5AB-2"		10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
	1CVA3B-2"	1CV-05	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						

SYSTEM: Chemical & Volume Control(CV)

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1CVA3B-2"	1CV-05	8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
	1CV14GD-1½"	1CV-06	1A		X		bc				
			2A		X						
	1CV14FD-2"		3A		X						
			4A		X						
			5A		X						
			6A		X						
			7A		X						
			8A		X						
			9A		X						
			10A		X						
			11A		X						
	1CV14GA-1½"		1B		X		bc				
	1CV14FA-2"	1CV-06	2B		X		h				
			3B		X		h				
			4B		X						
			5B		X						
			6B		X						
			7B		X						
			8B		X						
			9B		X						
			10B		X						

SYSTEM: Chemical & Volume Control(CV)

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1CVA3B-2"	1CV-07	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
	1CVA5AA-2	1CV-08	1		X		h				
			2		X		h				
			3		X		h				
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
	1CVA3AB-2"	1CV-09	1		X						
			2		X						
			3		X						
			4		X						

SYSTEM: Chemical & Volume Control(CV)

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1CVA3AB-2"	1CV-09	5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
	1CVA7AB-2"	1CV-10	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
	1CVA6AA-2"	1CV-11	1		X		h				
			2		X		h				
			3		X						
			4		X						

SYSTEM: Chemical & Volume Control(CV)

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1CVA6AA-2"	1CV-11	5		X						
			6		X						
			7		X						
			8		X						
	1CVA3B-2"		9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
	1CV45B-2"	1CV-12	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						

SYSTEM: Chemical & Volume Control(CV)

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1CVA3B-2"	1CV-13	1		X		.				
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
	1CVA3B-2"	1CV-14	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
	1CVA3B-2"	1CV-15	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						

SYSTEM: Chemical & Volume Control(CV)

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1CV14FC-2"	1CV-16	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
	1CV14GC-1½"		11		X						
			12		X		bc				

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	I' SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC 2½"	1RC-01	6		X		h				
	1RC 2½"		20		X		h				
	1RC 2½"	1RC-02	3		X						
	1RC 2½"		22		X						
	1RC 2½"	1RC-03	7		X						
	1RC 2½"		20		X						
	1RC 2½"	1RC-04	8		X						
	1RC 2½"		22		X						
	1RC 2½"	1RC-19	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1RC22AD-1½"	1RC-20	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8.01		X						
			9.01		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			28		X						
			29		X						
			30		X						
			31		X						
			32		X						

SYSTEM: Reactor Coolant | CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1RC22AD-1½	1RC-20	33		X						
			34		X						
			35		X						
			36		X						
			37		X						
			38		X						
			39		X						
			40		X						
			41		X						
			42		X						
			43		X						
	1RC22AB-1½	1RC-21	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC22AB-1½	1RC-21	21		X						
			22		X						
			23		X						
			24		X						
	1RC22AA-1½	1RC-23	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
	1RC22AC-1½	1RC-24	1		X		h				
			2		X		h				
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC22AC-1½	1RC-24	9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
	1RC17AD-2"	1RC-25	1		X						
			2		X						
			3		X						
			4		X						
			5		X		C				
			6		X		C				
			7		X		C				
			8		X		C				
			9		X		C				
			10		X		C				
	1RC43AD-2"		11		X		C				
			12		X		C				
			13		X		C				
			14		X		C				
			15		X		C				
			16		X		C				
			17		X		C				
			18		X		C				
			19		X		C				
			20		X		C				
			21		X		C				
			22		X		C				

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC17BD-2"	1RC-25	23		X		C				
			24		X		C				
			25		X		C				
			26		X		C				
			27		X		C				
			28		X		C				
			29		X		C				
			30		X		C				
	1RC09BD-2"	1RC-26	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1EC09CD-2"	1RC-26	10		X		c				
			11		X		c				
	1RC09DD-2"		12		X		c				
			13		X		c				
	1RC53DA-2"		14		X		c				
			15		X		c				
			16		X		c				
			17		X		c				
			18		X		c				
			19		X		c				
			20		X		c				
			21		X		c				
			22		X		c				
	1RC22AA-1½"	1RC-27	1-1		X		h				
		(Loop 1)	2-1		X		h				
			3-1		X		h				
			4-1		X		h				
			5-1		X		h				
			6-1		X						
			7-1		X						
			8-1		X						
			9-1		X						
			10-1		X						
			11-1		X						
			12-1		X						
			13-1		X						
			14-1		X						
			15-1		X						
			16-1		X						
			17-1		X						

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC22AA-1½"	1RC-27	18-1		X						
		(Loop 1)	19-1		X						
	1RC22AC-1½	1RC-27	1-3		X						
		(Loop 3)	2-3		X						
			3-3		X						
			4-3		X						
			5-3		X						
			6-3		X						
			7-3		X						
			8-3		X						
			9-3		X						
			10-3		X						
			11-3		X						
			12-3		X						
			13-3		X						
			14-3		X						
			15-3		X						
			16-3		X						
			17-3		X						
			18-3		X						
			19-3		X						
			20-3		X						
			21-3		X						
			22-3		X						

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC09BA-2	1RC-28	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
	1RC09CA-2		10		X		C				
			11		X		C				
	1RC09DA-2		12		X		C				
			13		X		C				
	1RC53AA-2		14		X		C				
			15		X		C				
			16		X		C				
			17		X		C				
			18		X		C				
			19		X		C				
			20		X		C				
			21		X		C				
			22		X		C				
	1RC16AC-2	1RC-29 (Loop 3)	1-3		X						
			2-3		X						
			3-3		X						
			4-3		X						
			5-3		X						
			6-3		X						
			7-3		X						
			8-3		X						

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC16AD-2"	(Loop 4)	1-4		X		bc				
			2-4		X						
			3-4		X						
			4-4		X						
			5-4		X						
			6-4		X						
			7-4		X						
			8-4		X						
	1RC13AA-2	1RC-30	1-1		X						
		(Loop 1)	2-1		X						
			3-1		X						
			4-1		X						
			5-1		X						
	1RC13AB-2	1RC-30	1-2		X						
		(Loop 2)	2-2		X						
			3-2		X						
			4-2		X						
			5-2		X						
			6-2		X						
			7-2		X						
			8-2		X						
			9-2		X						
			10-2		X						
			11-2		X						
	1RC13AC-2	(Loop 3)	1-3		X						
			2-3		X						
			3-3		X						
			4-3		X						
			5-3		X						
			6-3		X						
			7-3		X						

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1RC13AD-2	1RC-30	1-4		X						
		(Loop 4)	2-4		X						
			3-4		X						
			4-4		X						
			5-4		X						
	1RC14AB-2	1RC-31	1-4		X		bc				
		(Loop 4)	2-4		X						
			3-4		X		c				
			4-4		X						
			5-4		X						
			6-4		X						
			7-4		X		c				
	1RC26A-2"		8-4		X		h				
			9-4		X						
			10-4		X						
			11-4		X						
			12-4		X						
			13-4		X						
			14-4		X						
	1RC09BB-2"	1RC-33	1		X						
			2		X						
			3		X						
			4		X		c				
			5		X		c				
	1RC09CB-2"		6		X		c				
			7		X		c				
			8		X		c				
			9		X		c				
			10		X		c				
			11		X		c				

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1RC09DB-2	1RC-33	12		X		C				
			13		X		C				
	1RC53BA-2		14		X		C				
			15		X		C				
			16		X		C				
			17		X		C				
			18		X		C				
			19		X		C				
			20		X		C				
			21		X		C				
			22		X		C				
	1RC09BC-2	1RC-34	1		X						
			2		X						
			3		X						
			4		X		C				
			5		X		C				
			6		X		C				
			7		X		C				
			8		X		C				
			9		X		C				
			10		X		C				
			11		X		C				
	1RC09CC-2		12		X		C				
			13		X		C				
	1RC09DC-2		14		X		C				
			15		X		C				

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC53CA-2"	1RC-34	16		X		c				
			17		X		c				
			18		X		c				
			19		X		c				
			20		X		c				
			21		X		c				
			22		X		c				
	1RC14AA-2	1RC-36	1		X		bc				
			2		X		h				
			3		X		h				
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
	1CVA3AA-2		10		X		h				
			11		X		h				
			12		X		h				
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1RC14AD-2"	1RC-37	1		X		bc				
			2		X		h				
			3		X						
			4		X						
			5		X		c				
			6		X						
			7		X		c				
			8		X						
			9		X		c				
	1CVA7AA-2"		10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
	1RC17AB-2"	1RC-38	1		X						
			2		X		c				
			3		X		c				
			4		X		c				
			5		X		c				
			6		X		c				
			7		X		c				
			8		X		c				
			9		X		c				
			10		X		c				
	1RC43AB-2"	1RC-38	11		X		c				
			12		X		c				
			13		X		c				
			14		X		c				
			15		X		c				

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC43AB-2"	1RC-38	16		X		C				
			17		X		C				
			18		X		C				
			19		X		C				
			20		X		C				
			21		X		C				
			22		X		C				
	1RC17BB-2"		23		X		C				
			24		X		C				
			25		X		C				
			26		X		C				
			27		X		C				
			28		X		C				
			29		X		C				
			30		X		C				
			31		X		C				
			32		X		C				
			33		X		C				
			34		X		C				
	1RC17AA-2"	1RC-39	1		X						
			2		X						
			3		X						
			4		X						
			5		X		C				
			6		X		C				
			7		X		C				
			8		X		C				
			9		X		C				
			10		X		C				
			11		X		C				
			12		X		C				

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1RC17AA-2"	1RC-39	13		X		C				
			14		X		C				
			15		X		C				
			16		X		C				
			17		X		C				
			18		X		C				
			19		X		C				
			20		X		C				
	1RC43AA-2"		21		X		C				
			22		X		C				
			23		X		C				
			24		X		C				

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC17BA-2"	1RC-39	25		X		C				
			26		X		C				
			27		X		C				
			28		X		C				
			29		X		C				
			30		X		C				
			31		X		C				
			32		X		C				
			33		X		C				
			34		X		C				
			35		X		C				
			36		X		C				
	1RC17AC-2"	1RC-40	1		X		H				
			2		X		C				
			3		X		C				
			4		X		C				
			5		X		C				
			6		X		C				
			7		X		C				
			8		X		C				
			9		X		C				
			10		X		C				
	1RC43AC-2"		11		X		C				
			12		X		C				
			13		X		C				

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1RC43AC-2"	1RC-40	14		X		c				
			15		X		c				
			16		X		c				
			17		X		c				
			18		X		c				
			19		X		c				
			20		X		c				
			21		X		c				
	1RC17BC-2		22		X		c				
			23		X		c				
			24		X		c				
			25		X		c				
			26		X		c				
			27		X		c				
			28		X		c				
			29		X		c				
			30		X		c				
			31		X		c				
			32		X		c				
			33		X		c				
			34		X		c				
			35		X		c				
			36		X		c				
			37		X		c				
			38		X		c				
	1RC16AA-2"	1RC-41	1AA		X		bc				
			2AA		X						
			3AA		X						
			4AA		X						
			5AA		X						
			6AA		X						

SYSTEM: RC

CODE CATEGORY: B-J (Cont.)

ITEM NO	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC16AA-2"	1RC-41	7AA		X						
			8AA		X						
	1RC16AB-2"		1AB		X		bc				
			2AB		X						
			3AB		X						
			4AB		X						
			5AB		X						
			6AB		X						
	1RC14AC-2"	1RC-42	1		X		bc				
			2		X						
			3		X						
			4		X						
			5		X		c				
			6		X						
			7		X		c				
			8		X						
			9		X		c				

SYSTEM: Reactor Coolant

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.11	1RC21BC-8"		14	X	X						
			15	X	X						
			16	X	X						
	1RC24AB-4	1RC-14	1	X	X						
			2	X	X						
			3	X	X						
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			28	X	X						
			9B	X	X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1SI03FA-2"	1SI-02	1		X		h				
			2		X		h				
			3		X						
			3A		X						
			3B		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
	1SI18FB-2	1SI-06	24		X						
			24A		X						
			24B		X						
			25		X						
			26		X						
			27		X		bc				
	1SI18FC-2"	1SI-10	23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			28		X						
	1SI03DB-2"	1SI-11	23		X						
			24		X						
			25		X						
			26		X						
	1RC30AC-1½	1SI-15	1		X						
			2.01		X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1SI08JC-1½		4.01		X						
			5		X						
			6		X						
			7		X						
B9.40	1SI08JC-1½	1SI-15	8		X						
			9		X						
			10		X						
			11		X						
	1SI08JD-1½	1SI-16	1		X						
			2		X						
			2A		X						
			2B		X						
			3		X						
			4		X						
			4A		X						
			4B		X						
			4C		X						
			4D		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21								

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1RC30AD-1½		22		X						
			23		X						
	1RC30AB-1½	1SI-17	1		X		C				
			2		X		C				
	1SI08JB-1½		3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
			22		X						
			23		X						
	1SI08GB-1½	1SI-18	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1SI08GB-1½	1SI-18	8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
	1SI08HB-2"		16		X						
			17		X						
			18		X						
			19		X						
	1SI08JB-1½		20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			29		X						
			30		X						
			31		X						
			32		X						
			33		X						
			34		X						
			35		X						
			36		X						
	1SI08GA-1½	1SI-19	1		X		h				
			2		X						
			3		X						
			4		X						

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1SI08HA-2"	1SI-19	5		X						
			6		X		h				
			7		X		h				
			8		X		h				
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
	1SI08JA-1½"		17		X		h				
			18		X		h				
			19		X		h				
			20		X		h				
			21		X		h				
			22		X		h				
			23		X		h				
			24		X		h				
	1SI08JC-1½	1SI-20	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1SI08JC-1½	1SI-20	12		X						
	1SI08HC-2		13		X						
			14		X						
			15		X						
	1SI08GC-1½		16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
	1SI08GB-1½		22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
	1SI08HD-2"		28		X						
			29		X						
			30		X						
			31		X						
			32		X						
			33		X						
	1SI08JD-1½		34		X						
			35		X						
			36		X						
			37		X						
			38		X						
			39		X						
			40		X						
			41		X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1SI03DA-2"	1SI-21	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			28		X						
			29		X						
			30		X						
			31		X		h				
			32		X		h				
			33		X		h				

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1SI03DA-2"	1SI-21	34		X		h				
			35		X		h				
			36		X		h				
			37		X		h				
			38		X		h				
			39		X		h				
			40		X		h				
			41		X		h				
	1SI03FB-2"	1SI-22	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1SI03FB-2	1SI-22	25		X						
			26		X						
			27		X						
			28		X						
			29		X						
			30		X						
			31		X						
			32		X						
			33		X						
			34		X						
			35		X						
			36		X						
			37		X						
			9A		X						
			9B		X						
			13A		X						
			13B		X						
	1SI18FA-2	1SI-23	1-FA		X		bc				
			2-FA		X						
			3-FA		X						
			4-FA		X						
	1SI18FD-2		1-FD		X						
			2-FD		X						
			3-FD		X						
			4-FD		X						
			5-FD		X						
			6-FD		X						
	1RY76A-2		1-76A		X						
			2-76A		X		h				
			3-76A		X						
			4-76A		X						

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 110 Of 247 REVISION 1
SYSTEM: SI	CODE CATEGORY: B-J (Cont.)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B9.40	1SI08JD-1½	1SI-27	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
	1SI08JC-1½	1SI-29	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
	1RC30AA-1½	1SI-31	1		X		C				
			2		X		C				
	1SI08JA-1½		3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						

SYSTEM: SI

CODE CATEGORY: B-J (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B9.40	1SI08JA-1½	1SI-31	19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			28		X						
			29		X		h				
			30		X		h				
			31		X		h				
			33		X						

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	PAGE 112 OF 247 REVISION 1

SYSTEM:

CODE CATEGORY: B-K-1 Integral Attachments For Piping, Pumps and Valves

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Piping										
B10.10	1CVB7A-3"	1CV-01	15		X		a				
	1SI08JB-1½	1SI-18	28		X						
	1SI08JC-1½	1SI-20	2A		X						
	1SI08JD-1½		40A		X						
	1SI03DA-2"	1SI-21	9		X		a				
	1SI03FB-2"	1SI-22	9		X						
	1SI08JA-1½	1SI-31	32		X		a				
	Pumps										
B10.20	Integrally Welded Attachments		N/A								
	Valves										
B10.30	Integrally Welded Attachments		N/A								

SYSTEM: Reactor Coolant

CODE CATEGORY: B-L-1, B-L-2, B-M-1, B-M-2 Pressure Retaining Welds in Pump Casing and Valve Bodies/Pump Casings and Valve Bodies

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Pumps										
B12.10	Casing Welds		N/A								RCP's are integrally cast
B12.20	Casing	1RCP-01	1RC01PA			3	a				1NR-14
			1RC01PB			3					
			1RC01PC			3					
			1RC01PD			3					
	Valves										
B12.30	Valve Body Welds < 4 in		N/A								Class 1 valves bodies are cast
B12.40	Valve Body Welds > 4"		N/A								
	Valve Body										
B12.50	Exceeding	1RC-01	1RC8001A			3	a				1NR-3
	4 in Nominal	1RC-02	1RC8001B			3					
	Pipe Size	1RC-03	1RC8001C			3					
		1RC-04	1RC8001D			3					
		1RC-01	1RC8002A			3					
		1RC-02	1RC8002B			3					
		1RC-03	1RC8002C			3					
		1RC-04	1RC8002D			3					

SYSTEM: Reactor Coolant

CODE CATEGORY: B-L-1, B-L-2, B-M-1, B-M-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B12.50	Valve Bodies										
		1RC-06	1RC8003A			3	a				1NR-3
		1RC-09	1RC8003B			3					
		1RC-12	1RC8003C			3					
		1RC-15	1RC8003D			3					

SYSTEM: Safety Injection

CODE CATEGORY: B-L-1, B-L-2, B-M-1, B-M-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B12.50	Valve Bodies										
	1SI8808A	1SI-01				3	a				1NR-3
	1SI8808B	1SI-05				3					
	1SI8808C	1SI-09				3					
	1SI8808D	1SI-13				3					
	1SI8818A	1SI-03				3	a				1NR-3
	1SI8818B	1SI-06				3					
	1SI8818C	1SI-10				3					
	1SI8818D	1SI-14				3					
	1SI8841A	1SI-02				3	a				1NR-3
	1SI8841B	1SI-11				3					
	1SI8948A	1SI-01				3	a				1NR-3
	1SI8948B	1SI-05				3					
	1SI8948C	1SI-09				3					
	1SI8948D	1SI-13				3					
	1SI8949A	1SI-02				3	a				1NR-3
	1SI8949B	1RC-22				3					
	1SI8949C	1SI-11				3					
	1SI8949D	1RC-22				3					
	1SI8956A	1SI-01				3					
	1SI8956B	1SI-05				3					
	1SI8956C	1SI-09				3					
	1SI8956D	1SI-13				3					

SYSTEM: Reactor Coolant (RY)

CODE CATEGORY: B-L-1, B-L-2, B-M-1, B-M-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS	
B12.50	Valve Bodies											
	1RY8010A	1RC-32				3	a				1NR-3	
	1RY8010B	1RC-32				3						
	1RY8010C	1RC-32				3						

SYSTEM: Residual Heat (RH)

CODE CATEGORY: B-L-1, B-L-2, B-M-1, B-M-2 (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD V	L	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B12.50	Valve Bodies											
	1RH8701A-1	1RH-02					3	a				1NR-3
	1RH8701B-2	1RH-02					3					
	1RH8702A-1	1RH-01					3					
	1RH8702B-2	1RC-11					3					

SYSTEM: Reactor Vessel

CODE CATEGORY: B-N-1, B-N-3 Vessel Interior and Support Structure
B-N-2 Integrally Welded Core Structures and Interior Attachments

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Reactor Vessel										
B13.10	Vessel Interior	1RV-01				3	a				
B13.20	Reactor Vessel (BWR)		N/A								
B13.30	Reactor Vessel (BWR)		N/A								
B13.40	Reactor Vessel (BWR)		N/A								
	Reactor Vessel (PWR)										
B13.50	Interior Attachments Within Beltline Region	1RV-01	All			1	a				
B13.60	Interior Attachments Beyond Beltline Region	1RV-01	All			3	a				
B13.70	Core Support Structure	1RV-01	All			3	a				

SYSTEM: Reactor Vessel

CODE CATEGORY: B-O Pressure Retaining Welds in Control Rod Housings

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B14.10	Welds in CRD Housing	1RV-03									Peripheral CRDs
			30		X						
			32		X						
			34		X						
			36		X						
			38		X						
			39		X						
			40		X						
			41		X						
			42		X						
			43		X						
			44		X						
			45		X						
			46		X						
			47		X						
			48		X						
			49		X						
			50		X						
			51		X						
			52		X						
			53		X						
			54		X						
			55		X						
			56		X						
			57		X						
			58		X						
			59		X						
			60		X						
			61		X						
			62		X						

SYSTEM: Reactor Vessel

CODE CATEGORY: B-O (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B14.10		1RV-03	63		X						
			64		X						
			65		X						
			66		X		a				
			67		X		a				
			68		X		a				
			69		X						
			70		X						
			71		X						
			72		X						
			73		X						
			74		X		a				
			75		X		a				
			76		X						
			77		X						
			78		X						

SYSTEM: Reactor Vessel, Pressurizer. Steam Generators | CODE CATEGORY: B-P Pressure Retaining Components

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Reactor Vessel					2	a				System Leakage Test
B15.10	Pressure Retaining Boundary										
B15.11	Pressure Retaining Boundary					2	a				System Hydro Test
	Pressurizer Vessel										
B15.20	Pressure Retaining Boundary					2	a				System Leakage Test Note 7
B15.21	Pressure Retaining Boundary					2	a				System Hydro Test Note 7
	Steam Generators										
B15.30	Pressure Retaining Boundary	1SG-01	1RC01BA			2	a				System Leakage Test Note 7
		1SG-02	1RC01BB			2	a				
		1SG-03	1RC01BC			2	a				
		1SG-04	1RC01BD			2	a				
B15.31	Pressure Retaining Boundary	1SG-01	1RC01BA			2	a				System Hydro Test Note 7
		1SG-02	1RC01BB			2	a				
		1SG-03	1RC01BC			2	a				
		1SG-04	1RC01BD			2	a				

SYSTEM: Heat Exchangers, Piping Class 1 | CODE CATEGORY: B-P Pressure Retaining Components

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B15.40	Heat Exchangers Pressure Retaining Boundary	N/A									
B15.41	Pressure Retaining Boundary	N/A									
B15.50	Piping Pressure Retaining Boundary	Chemical and Volume Control (M064)	All			2	a				System Leakage Test
		Reactor Coolant (M060)	All			2	a				
		Residual Heat Removal (M062-1)	All			2	a				
		Pressurizer (M060-5)	All			2	a				
		Safety Inj (M061)	All			2	a				

SYSTEM: Piping Class 1 | CODE CATEGORY: B-P Pressure Retaining Components

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B15.51	Pressure Retaining Boundary	Chemical and Volume Control (M064)	All			2	a				System Hydro Test
		Reactor Coolant (M060)	All			2	a				
		Residual Heat Removal (M062-1)	All			2	a				
		Pressurizer (M060-5)	All			2	a				
		Safety Inj (M061)	All			2	a				
	Pumps										
15.60	Pressure Retaining Boundary	1RCP-01	1RC01PA			2	a				System Leakage Test
			1RC01PB			2	a				
			1RC01PC			2	a				
			1RC01PD			2	a				
15.61	Pressure Retaining Boundary	1RCP-01	1RC01PA			2	a				System Hydro Test
			1RC01PB			2	a				
			1RC01PC			2	a				
			1RC01PD			2	a				

SYSTEM: Valves, Class 1 | CODE CATEGORY: B-P Pressure Retaining Components

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
B15.70	Valves Pressure Retaining Boundary	All	All			2	a				System Leakage Test
B15.71	Pressure Retaining Boundary	All	All			2	a				System Hydro Test

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	PAGE 125 OF 247 REVISION 1

SYSTEM: Steam Generator Tubing

CODE CATEGORY: B-Q Steam Generator Tubing

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
B16.20	1RC01BA			X			a				Note 4
	1RC01BB			X			a				Note 4
	1RC01BC			X			a				Note 4
	1RC01BD			X			a				Note 4

SYSTEM: Class 2 Pressure Vessels

CODE CATEGORY: C-A Pressure Retaining Welds in Vessels

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C1.10	Shell Circumferential Welds										
	Steam Generators										
	1RC01BA	1SG-01	SGC-3	X			a				
			SGC-5	X			a				
			SGC-6	X			a				Note 7
	1RC01BB	1SG-02	SGC-3	X							
			SGC-5	X							
			SGC-6	X							
	1RC01BC	1SG-03	SGC-3	X							
			SGC-5	X							
			SGC-6	X							
	1RC01BD	1SG-04	SGC-3	X							
			SGC-5	X							
			SGC-6	X							

SYSTEM: Class 2 Pressure Vessels

CODE CATEGORY: C-A (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL.	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C1.10	Excess Letdown Hx 1CV01AA	1ELHX-01	1ELHXC-2	X							
			1ELHX-3	X							
	1CV01AB	1ELHX-01	1ELHXC-2	X			a				1NR-17
			1ELHXC-3	X			a				1NR-11
	Seal Water Return Filter 1CV02F	1SWF-01	1SWRF-C1	X			a				1NR-8
	Reactor Coolant Filter 1CV03F	1SWF-01	1RCFC 1	X			a				1NR-8
	Horizontal Letdown Hx 1CV04AA	1LHX-01	1HLHXC-1	X			a				1NR-10
	1CV04AB	1LHX-01	1HLHXC-1	X							
	RHR Hx 1RH02AA	1RHX-01	1RHEC-1	X			a				
	1RH02AB	1RHX-01	1RHEC-1	X							

SYSTEM: Class 2 Pressure Vessels

CODE CATEGORY: C-A (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C1.10	Letdown Reheat Hx										
	1CV05A	1LRHX-01	1LRHXC-2	X			a				1NR-17
	1CV05B	1LRHX-01	1LRHXC-2	X							
	Regen Hx										
	1CV03AA	1RGX-01	1RGXC-1	X							
			1RGXC-2	X							
			1RGXC-5	X							
			1RGXC-6	X							
	1CV03AB	1RGX-01	1RGXC-1	X			a				
			1RGXC-2	X			a				
			1RGXC-5	X			a				
			1RGXC-6	X			a				

SYSTEM: Class 2 Pressure Vessels

CODE CATEGORY: C-A (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C1.20	Head Welds Steam Generators										
	1RC01BA	1SG-01	SGC-8	X			a				
	1RC01BB	1SG-02	SGC-8	X							
	1RC01BC	1SG-03	SGC-8	X							
	1RC01BD	1SG-04	SGC-8	X							

SYSTEM: Class 2 Vessels

CODE CATEGORY: C-A (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C1.20	Excess Letdown Hx										
	1CV01AA	1ELHX-01	1ELHXC-1	X							
	1CV01AB	1ELHX-01	1ELHXC-1	X			a				1NR-17
	Seal Water Filter										
	1CV02F	1SWF-01	1SWRFC-2	X			a				1NR-8
	Reactor Coolant Filter										
	1CV03F	1SWF-01	1RCFC 2	X			a				1NR-8
	RHR Hx										
	1RH02AA	1RHX-01	1RHEC-2	X			a				
	1RH02AB	1RHX-01	1RHEC-2	X							
	Volume Control Tank										
	1CV01T	1VCT-01	1VCTC-2	X			a				1NR-17
			1VCTC-3	X			a				1NR-17

SYSTEM: Class 2 Vessels

CODE CATEGORY: C-A (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C1.20	Letdown Reheat Hx										
	1CV05A	1LRHX-01	1LRHXC-1	X			a				1NR-17
	1CV05B	1LRHX-01	1LRHXC-1	X							
	Regenerative Hx										
	1CV03AA	1RGX-01	1RGXC-3	X							
			1RGXC-4	X							
	1CV03AB	1RGX-01	1RGXC-3	X			a				
			1RGXC-4	X			a				

SYSTEM: Class 2 Vessels

CODE CATEGORY: C-A (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C1.30	Tubesheet - Shell Weld Steam Generators										
	1RC01BA	1SG-01	SGC-02	X			a				
	1RC01BB	1SG-02	SGC-02	X							
	1RC01BC	1SG-03	SGC-02	X							
	1RC01BD	1SG-04	SGC-02	X							

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	PAGE 133 OF 247 REVISION 1
SYSTEM: Class 2 Pressure Vessels	CODE CATEGORY: C-B, Pressure Retaining Nozzle Welds in Vessels	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS	
C2.10	Nozzles in Vessels < 1/2 in Nominal Wall Thickness		N/A									
C2.11	Nozzle-to-Shell (or head) Welds		N/A									

SYSTEM: Class 2 Pressure Vessels

CODE CATEGORY: C-B, (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C2.20	Nozzles Without Reinforcing Plate in Vessels > 1/2 in Thickness										
C2.21	Nozzle-to-Shell (or head) Weld Steam Generators										
	1RC01BA	1SG-01	SGN-2	X	X		a				
			SGN-3	X	X		a				
			SGN-13	X	X		a				
	1RC01BB	1SG-02	SGN-2	X	X						
			SGN-3	X	X						
			SGN-13	X	X						
	1RC01BC	1SG-03	SGN-2	X	X						
			SGN-3	X	X						
			SGN-13	X	X						
	1RC01BD	1SG-04	SGN-2	X	X						
			SGN-3	X	X						
			SGN-13	X	X						

SYSTEM: Class 2 Pressure Vessels | CODE CATEGORY: C-B, (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C2.21	RHR Hx										
	1RH02AA	1RHX1-01	1RHXN1	X	X		a				1NR-12
			1RHXN2	X	X		a				1NR-12
	1RH02AB	1RHX1-01	1RHXN1	X	X						
			1RHXN2	X	X						
C2.22	Nozzle Inside Radius Section Steam Generators										
	1RC01BA	1SG-01	SGN-2(IR)	X			a				1NR-12
			SGN-3(IR)	X							Note 1
	1RC01BB	1SG-02	SGN-2(IR)	X							
			SGN-3(IR)	X							Note 1
	1RC01BC	1SG-03	SGN-2(IR)	X							
			SGN-3(IR)	X							Note 1
	1RC01BD	1SG-04	SGN-2(IR)	X							
			SGN-3(IR)	X							Note 1
	RHR Hx										
	1RH02AA	1RHX1-01	1RHXN1(IR)	X			a				1NR-12
			1RHXN2(IR)	X			a				1NR-12
	1RH02AB	1RHX1-01	1RHXN1(IR)								
			1RHXN2(IR)								

SYSTEM: Class 2 Pressure Vessels

CODE CATEGORY: C-B (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C2.30	Nozzles With Reinforcing Plate in Vessels > 1/2 in Nominal Thickness		N/A								
C2.31	Reinforcing Plate welds in Nozzle to Vessel		N/A								
C2.32	Nozzle-to-Vessel (or Head) Welds Inside of Vessel Accessible		N/A								
C2.33	Inside of Vessel Inaccessible		N/A								

SYSTEM: Class 2 Pressure Vessels

CODE CATEGORY: C-C Integral Attachments for Vessels, Piping and Valves

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Pressure Vessels										
C3.10	Integrally Welded Attachments										
	RHR Hx										
	1RH02AA	1RHX-01	1RHES-1		X		a				
	1RH02AB	1RHX-01	1RHES-1		X						
	Volume Control Tank										
	1CV01T	1VCT-01	1VCTS-1		X		a				

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-C (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Piping Integrally Welded Attachments										
C3.20	1FW87CB-6"	1FW-06	32		X		b				
			33		X						
			15		X		a				
	1FW87CC-6"	1FW-07	17		X		a				
	1FW87CD-6"	1FW-08	17		X		a				
	1FW87CA-6"	1FW-09	13		X		a				
	1FW87CC-6"	1FW-10	28		X		b				
			29		X						
	1FW87CA-6"	1FW-11	28		X		b				
			29		X						
	1FW87CD-6"	1FW-12	28		X		b				
			29		X						
	1RH03AA-8"	1RH-03	37		X		b				
			37B		X						
	1RH01BA-12"	1RH-04	73		X		b				
			73A		X						
	1RH02AA-8"	1RH-05	21B		X						
			22		X						
	1RH03AB-8"	1RH-07	25		X						
			25A		X						
	1RH01BB-12"	1RH-08	2A		X						
			2B		X						
	1RH02AB-8"	1RH-09	45		X						
			45A		X						
	1SI05BA-8"	1SI-04	2		X		a				
			2A		X						
	1SI04B-12"	1SI-12	23		X		a				
			23A				a				
	1SI05BB-8"	1SI-26	9		X						
			9A		X						

SYSTEM: Main Steam

CODE CATEGORY: C-C (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C3.20	1MS08007S	1MS-01	8-Attch		X		a				
	1MS08002C		4-Attch		X		a				
	1MS01210X	1MS-02	1-Attch		X		a				
	1MS01083S		2-Attch		X		a				
	1MS05007S	1MS-03	12-Attch		X		a				
	1MS05002C		4-Attch		X		a				
	1MS01205X	1MS-04	1-Attch		X		a				
	1MS01074S		2-Attch		X		a				
	1MS06007S	1MS-05	8-Attch		X		a				
	1MS06002C		4-Attch		X		a				
	1MS01220X	1MS-06	1-Attch		X		a				
	1MS01092S		2-Attch		X		a				
	1MS07006S	1MS-07	3-Attch		X		a				
	1MS07002C		4-Attch		X		a				
	1MS01215X	1MS-08	1-Attch		X		a				
	1MS01101S		2-Attch		X		a				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	PAGE 140 OF 247 REVISION 1

SYSTEM: SI	CODE CATEGORY: C-C (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C3.20	1SI06042V	1SI-24	4-Attach		X		a				
	1SI06027	1RH-08	1-Attach		X		a				
	1SI06028		1-Attach		X		a				
	1SI06029		4-Attach		X		a				

SYSTEM: Class 2 Pumps | CODE CATEGORY: C-C (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C3.30	Pumps Integrally Welded Attachments										
	Chemical & Volume Control										
	1CV01PA	1RHP-01	CVP-1		X		a				1NR-15
			CVP-2		X		a				1NR-15
			CVP-3		X		a				1NR-15
			CVP-4		X		a				1NR-15
	1CV01PB	1RHP-01	CVP-1		X						
			CVP-2		X						
			CVP-3		X						
			CVP-4		X						

SYSTEM: Class 2 Pumps

CODE CATEGORY: C-C (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C3.30	Residual Heat Removal										
	1RH01PA	1RHP-01	RHP-1		X		a				1NR-15
			RHP-2		X		a				1NR-15
			RHP-3		X		a				1NR-15
	1RH01PB	1RHP-01	RHP-1		X						
			RHP-2		X						
			RHP-3		X						

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 143 OF 247 REVISION 1
SYSTEM: Class 2 Valves	CODE CATEGORY: C-C (Cont.)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C3.40	Valves Integrally Welded Attachments		N/A								

SYSTEM: Class 2

CODE CATEGORY: C-D Pressure Retaining Bolting Greater Than 2 in Diameter

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Pressurizer Vessels										
C4.10	Bolts and Studs		N/A								
C4.20	Piping Bolts and Studs		N/A								
C4.30	Pumps Bolts and Studs		N/A								
C4.40	Valves Bolts and Studs		N/A								

SYSTEM: Feedwater (FW) | CODE CATEGORY: C-F

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.10	Piping Welds < 1/2 in Nominal Wall Thickness										
C5.11	1FW81BB-6"	1FW-05	18		X		g				
			19		X		g				
			20		X		g				
			21		X		g				
			23		X		g				
			24		X		g				
			25		X		g				
	1FW87CB-6"		26		X		g				
			27		X		g				
			28		X		g				
	1FW87CB-6"	1FW-06	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			16		X						
			17		X						
			18		X						

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.11	1FW87CB-6""	1FW-06	19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			26		X						
			27		X						
			28		X						
			29		X						
	1FW87CC-6"	1FW-07	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			18		X						
			19		X						
			20		X						
			21		X						
			22		X						

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 147 OF 247 REVISION 1

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.11	1FW87CC-6"	1FW-07	23		X						
			24		X						
			24A		X						
			25		X						
			26		X						
			27		X						
			28		X						
			29		X						
			31		X						
			32		X						
			33		X						
			34		X						
	1FW87CD-6"	1FW-08	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD			ID SEL	PERIOD			COMMENTS
				VOL	SUR	VIS		1st	2nd	3rd	
C5.11	1FW87CD-6"	1FW-08	20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			26		X						
			27		X						
			28		X						
			29		X						
			30		X						
			31		X						
	1FW87CA-6"	1FW-09	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			8A		X						
			9		X						
			10		X						
			11		X						
			12		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.11	1FW87CA-6"	1FW-09	20		X						
			21		X						
			23		X						
			24		X						
			25		X						
			26		X						
	1FW81BC-6	1FW-10	17		X		g				
			17A		X		g				
			18		X		g				
			19		X		g				
			20		X		g				
			21		X		g				
			22		X		g				
			23		X		g				
			24		X		g				
	1FW87CC-6"		25		X		g				
			26		X		g				
			27		X		g				
	1FW81AA-6"	1FW-11	16		X		g				
			17		X		g				
	1FW81BA-6"		18		X		g				
			19		X		g				
			20		X		g				
			21		X		g				
			22		X		g				
			23		X		g				
			24		X		g				
	1FW87CA-6"		25		X		g				
			26		X		g				
			27		X		g				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 150 OF 247 REVISION 1
SYSTEM: Feedwater (FW)	CODE CATEGORY: C-F (Cont.)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.11	1FW81AD-6"	1FW-12	17		X		g				
	1FW81BD-6"		18		X		g				
			19		X		g				
			20		X		g				
			21		X		g				
			22		X		g				
	1FW81BD-6"		23		X		g				
			24		X		g				
	1FW87CD-6"		25		X		g				
			26		X		g				
			27		X		g				

SYSTEM: R4

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1RH03AA-8"	1RH-03	1		X		e2				
			2		X		e2				
			3		X		e1				
			6		X		e1				
			7		X						
			8		X						
			11		X						
			12		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
			24		X						
			25		X						
			27		X						
			29		X						
			30		X						
			31		X						
			34		X						
			35		X						
			38		X						
			40		X						
			41		X						
			42		X						
			43		X						
			45		X						
			46		X						
			49		X						
			50		X						
			51		X						
			53		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD [illegible]	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.11	1RH03AA-8	1RH-03	54		X						
			56		X						
			57		X						
			58		X						
	1RH12A-8"		60		X						
			61		X						
			64		X						
			65		X						
			66		X						
			67		X						
			68		X						
			69		X						
			70		X		el				
	1RH01CA-16"	1RH-04	OA		X						14"
			1		X						14"
			2		X						
			3		X						
			6		X						
			7		X						
			10		X						
			15		X						
			16		X						
			18		X						
			19		X						
			24		X						
			27		X		el				
			30		X		el				
			35		X						
	1RH01BA-12"		39		X		el				
			42		X		el				
			44		X		el				
			47		X		el				

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1RH01BA-12"	1RH-04	50		X						
			51		X						
			54		X						
			55		X						
			58		X						
			59		X						
			60		X						
			63		X						
			66		X						
			67		X						
			70		X						
			72		X						
			74		X						
	1RH02AA-8"	1RH-05	1		X		e2				
			2		X		e1				
			3		X		e1				
			4		X		e1				
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			15A		X						
			16		X						
			17		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1RH02AA-8"	1RH-05	18		X						
			19		X						
			20		X						
			21		X						
			23		X						
			24		X						
			25		X						
			27		X						
			28		X						
			29		X						
			30		X						
			30AB		X						
			31		X						
			32		X						
			33		X						
			34		X						
			35		X						
	1RH09AA-8"		26		X						
	1RH02AB-8"	1RH-06	1		X		e2				
			2		X		e2				
			3		X		e1				
			5		X						
			7		X		e1				
			8		X		e1				
			9		X						
			12		X						
			13		X						
			20		X						
			21		X						
			24		X						
			25		X						
			27		X						
			28		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1RH02AB-8"	1RH-06	30		X						
	1RH09AB-8"		17		X						
	1RH03AB-8"		31		X		el				
			35		X		el				
			38		X		el				
			39		X						
			42		X						
			43		X						
			44		X		el				
			45		X						
			49		X						
			50		X						
			53		X						
			54		X						
			56		X						
			58		X						
			59		X						
			60		X						
			61		X						
	1RH034B-8"	1RH-07	3		X						
			4		X						
			7		X						
			9		X						
			10		X						
			13		X						
			14		X						
			17		X						
			18		X						
			21		X						
			22		X						
			23		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1RH03AB-8"	1RH-07	27		X						
			28		X						
			30		X						
			32		X						
			34		X						
			35		X						
			38		X						
	1RH03AA-8"		39		X						
			44		X						
			51		X						
			52		X						
			53		X						
	1RH14A-8"		45		X		el				
			47		X		el				
			48		X		el				
			50		X						
	1RH01BB-12"	1RH-08	1		X						
			2		X						
			3		X						
			6		X						
			8		X		el				
			11		X		el				
			15		X						
			18		X						
			21		X						
			24		X						
			27		X						
			30		X						
			33		X						
			36		X						
			39		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1RH01BB-12"	1RH-08	42		X						
			46		X						
	1RH01CB-16"		48		X						
			49		X		el				
			53		X		el				
			58		X						
			61		X		el				
			64		X						
			69		X						
			72		X						
			77		X						
			81		X						
			84		X						
			85		X						
			87		X						
			88		X						
			90		X						
			91		X						
	1RH02AB-8"	1RH-09	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			10		X						
			12		X						
			13		X						
			16		X						
			17		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1RH02AB-8"	1RH-09	20		X						
			21		X						
			24		X						
			25		X						
			28		X						
			29		X						
			32		X						
			33		X						
			36		X						
			37		X						
			40		X						
			41		X						
			42		X						
			47		X						
			50		X						
			14R		X						

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 159 OF 247 REVISION 1
SYSTEM: SI	CODE CATEGORY: C-F (Cont.)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1SI04A-12"	1SI-12	1		X		e1				
			5		X						
			6		X						
			7		X						
			10		X						
			11		X						
			12		X						
			13		X						
			16		X						
			19		X						
			20		X						
	1SI05AA-6	1SI-25	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1SI05AA-12"	1SI-25	13		X						
			14		X		el				
			16		X		el				
	1SI09AC-10	1SI-28	1		X						
			2		X						
			3		X						
			6		X						
			9		X						
			13		X						
			16		X						
			19		X						
			22		X						
			25		X		el				
	1SI09AB-10		27		X						
			28		X						
			29		X						
			32		X						
			35		X						
			39		X						
			42		X						
			45		X						
			48		X						
			51		X						
	1SI09AA-10	1SI-30	1		X						
			2		X						
			3		X						
			6		X						

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1SI09AA-10	1SI-30	9		X						
			13		X						
			16		X						
			19		X						
			20		X						
			26		X						
	1SI09AD-10		1		X						
			2		X						
			3		X						
			6		X						
			9		X						
			13		X						
			16		X						
			19		X						
			22		X		el				
			25		X						
	1SI005AB-8	1SI-32	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.11	1SI05AB-8	1SI-32	12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						
			18		X						
			19		X						
			20		X						
			21		X						
			22		X						
			23		X						
			24		X						
			25		X						
			27		X						
	1SI34A-8	1SI-33	1		X						
			2		X						
			3		X						
			4		X						
			5		X						
			6		X						
			7		X						
			8		X						
			9		X						
			10		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15		X						
			16		X						
			17		X						

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 163 OF 247 REVISION 1

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.11	1SI34A-8	1SI-33	18		X		e1				
			19		X						
			20		X		e1				

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	Longitudinal Welds										
	1RH03AA-8"	1RH-03	1A		X		e4				
			1B		X		e4				
			4		X						
			5		X						
			9		X						
			10		X						
			13		X						
			15		X						
			22		X						
			23		X						
			26		X						
			26A		X						
			27A		X						
			28		X						
			32		X						
			33		X						
			36		X						
			37A		X						
			38A		X						
			39		X						
			41A		X						
			41B		X						
			43A		X						
			44		X						
			47		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	1RH03AA-8"	1RH-03	48		X						
			49A		X						
			49B		X						
			52		X						
			52A		X						
			54A		X						
			55		X						
	1RH12A-8"		53A		X						
			53B		X						
			60A		X						
			60B		X						
			62		X						
			63		X						
			64A		X						
			64B		X						
			66A		X						
			66B		X						
			67A		X						
			67B		X						
			68A		X						
			68B		X						
	1RH01CA-16"	1RH-04	0B		X						
			0C		X						
			0D		X						
			0E		X						
			1A		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	1RH01CA-16"	1RH-04	1B		X						
			4		X						
			5		X						
			8		X						
			9		X						
			11		X						
			12		X						
			13		X						
			14		X						
			15A		X						
			17		X						
			17A		X						
			18A		X						
			18B		X						
			20		X						
			21		X						
			22		X						
			23		X						
			25		X						
			26		X						
			28		X		e4				
			29		X		e4				
			31		X		e4				
			32		X		e4				
			33		X						
			34		X						
	1RH01BA-12"		38		X		e4				
			40		X		e4				
			41		X		e4				
			43		X		e4				
			45		X		e4				

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	1RH01BA-12"	1RH-04	46		X		e4				
			48		X		e4				
			49		X						
			52		X						
			53		X						
			56		X						
			57		X						
			61		X						
			62		X						
			64		X						
			65		X						
			68		X						
			69		X						
	1RH02AA-8"	1RH-05	6A		X						
			6B		X						
			7A		X						
			7B		X						
			9A		X						
			9B		X						
			10A		X						
			10B		X						
			12A		X						
			12B		X						
			13A		X						
			13B		X						
			15B		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	1RH02AA-8"	1RH-05	15C		X						
			15D		X						
			15E		X						
			17A		X						
			17B		X						
			19A		X						
			19B		X						
			21A		X						
			22A		X						
			30A		X						
			30AA		X						
			30AC		X						
			30B		X						
			32A		X						
			32B		X						
			34A		X						
			34B		X						
	1RH02AB-8"	1RH-06	1A		X		e4				
			1B		X		e4				
			4		X						
			4A		X						
			5A		X						
			6		X						
			10		X						
			11		X						
			22		X						
			23		X						
			26		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	1RH02AB-8"	1RH-06	26A		X						
			27A		X						
			27B		X						
			29		X						
			29A		X						
	1RH03AB-8"		36		X						
			37		X						
			40		X						
			41		X						
			46		X						
			48		X						
			51		X						
			52		X						
			55		X						
			55A		X						
			56A		X						
			57		X						
			60A		X						
			60B		X						
	1RH09AB-8"		18		X						
			19		X						
	1RH03AB-8"	1RH-07	1		X						
			2		X						
			5		X						
			6		X						
			7A		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	1RH03AB-8"	1RH-07	8		X						
			11		X						
			12		X						
			15		X						
			16		X						
			19		X						
			20		X						
			21A		X						
			21B		X						
			24		X						
			26		X						
			27A		X						
			27B		X						
			31		X						
			31A		X						
			32A		X						
			33		X						
			34A		X						
			34B		X						
			36		X						
			37		X						
			40		X						
	1RH14A-8"		43		X						
			46		X						
			46A		X						
			49		X						
			49A		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	1RH01BB-12"	1RH-08	4		X						
			5		X						
			7		X						
			7A		X						
			9		X		e4				
			10		X		e4				
			12		X						
			14		X						
			16		X						
			17		X						
			19		X						
			20		X						
			22		X						
			23		X						
			25		X						
			26		X						
			28		X						
			29		X						
			31		X						
			32		X						
			34		X						
			35		X						
			37		X						
			38		X						
			40		X						
			41		X						
			43		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	1RH01BB-12"	1RH-08	44		X						
			45		X						
	1RH01CB-16"		48A		X						
			48B		X						
			50		X		e4				
			51		X		e4				
			52		X		e4				
			54		X						
			55		X						
			56		X						
			57		X						
			62		X						
			63		X						
			65		X						
			66		X						
			67		X						
			68		X						
			70		X						
			71		X						
			73		X						
			74		X						
			75		X						
			76		X						
			78		X						
			80		X						
			82		X						
			83		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	COMMENTS
C5.12	1RH01CB-16"	1RH-08	85A		X					
			86		X					
			88A		X					
			89		X					
			90A		X					
			90B		X					
			90C		X					
			90D		X					
	1RH02AB-8"	1RH-09	6A		X					
			6B		X					
			9		X					
			9A		X					
			11		X					
			11A		X					
			14		X					
			14A		X					
			14C		X					
			15		X					
			18		X					
			19		X					
			22		X					
			23		X					
			26		X					
			27		X					
			30		X					
			31		X					

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.12	1RH02AB-8"	1RH-09	34		X						
			35		X						
			38		X						
			39		X						
			43		X						
			44		X						
			48		X						
			49		X						
	1SI04A-12"	1SI-12	2		X						
			3		X						
			4		X		e4				
			8		X						
			9		X						
			14		X						
			15		X						
			17		X						
			18		X						
	1RH01CA-16"	1SI-24	23BBA		X						
	1RH01CB-16"		23BBB		X						
	1SI09AB-10"	1SI-28	2A		X						
			2B		X						
			4		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.12	1SI09AB-10"	1SI-28	5		X						
			7		X						
			8		X						
			10		X						
			12		X						
			14		X						
			15		X						
			17		X						
			18		X						
			20		X						
			21		X						
			23		X						
			24		X		e4				
	1SI09AC-10"		28A		X						
			28B		X						
			30		X						
			31		X						
			33		X						
			34		X						
			36		X						
			38		X						
			40		X						
			41		X						
			43		X						
			44		X						
			46		X						
			47		X						

SYSTEM: RH

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	1SI09AC-10"	1SI-28	49		X						
			50		X						
	1SI09AA-10"	1SI-30	2A		X						
			2B		X						
			4		X						
			5		X						
			7		X						
			8		X						
			10		X						
			12		X						
			14		X						
			15		X						
			17		X						
			18		X						
			19A		X						
			19B		X						
			21		X						
			22		X						
			24		X						
			25		X						
	1SI09AD-10"		2A		X						
			2B		X						
			4		X						
			5		X						
			7		X						
			8		X						

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	PAGE 177 OF 247 REVISION 1

SYSTEM: RP	CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.12	1SI09AD-10"	1SI-30	10		X						
			12		X						
			14		X						
			15		X						
			17		X						
			18		X						
			20		X						
			21		X						
			23		X		e4				
			24		X						

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.20	Piping Welds > 1/2 in Nominal Wall Thickness										
C5.21	1FW86AD-16"	1FW-01	1	X	X		g				1NR-16
			3	X	X		g				
	1FW03DD-16"		4	X	X						
			5	X	X		b				
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			27	X	X						

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1FW03DD-16"		28	X	X						
			29	X	X						
			30	X	X						
			31	X	X		b				
C5.21	1FW86AA-16"	1FW-02	1	X	X		g				1NR-16
			3	X	X		g				
	1FW86DA-16"		4	X	X		g				
			5	X	X						
			5A	X	X		b				
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			27	X	X						
			28	X	X						
			29	X	X		b				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	PAGE 180 OF 247 REVISION 1

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.21	1FW86AB-16"	1FW-03	1	X	X		g				
			3	X	X		g				
	1FW03DB-16"		4	X	X						
			5	X	X						
			5A	X	X		b				
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			27	X	X						
			28	X	X						
			29	X	X						
			30	X	X						
			31	X	X		b				

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.21	1FW86AC-16"	1FW-04	1	X	X		g				
			3	X	X						
	1FW03DC-16"		4	X	X		g				
			4B	X	X						
			5	X	X		b				
			6	X	X						
			6A	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			22A	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			27	X	X						
			28	X	X						
			29	X	X		b				1NR-16

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1FW81AB-6"	1FW-05	1	X	X		g				
			2	X	X		g				
			3	X	X		g				
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
	1FW87CB-6	1FW-06	30	X	X		b				
	1FW87CC-6	1FW-07	35	X	X		b				
	1FW87CD-6	1FW-08	32	X	X		b				
	1FW87CA-6	1FW-09	27	X	X		b				
	1FW81AC-6"	1FW-10	1	X	X		g				
			2	X	X		g				
			3	X	X		g				
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			15	X	X						
			16	X	X						

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1FW81AA-6"	1FW-11	1	X	X		g				
			2	X	X		g				
			3	X	X		g				
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			15	X	X						
	1FW81AD-6"	1FW-12	1	X	X		g				
			2	X	X		g				
			3	X	X		g				
			4	X	X						
			5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			15	X	X						
			16	X	X						

SYSTEM: Main Steam (MS)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1MS01AD-30.25"	1MS-01	1	X	X		b				1NR-16
			6	X	X						
			9	X	X						
			12	X	X						
			13	X	X						
			16	X	X						
			19	X	X						
			22	X	X						
			25	X	X						
			26	X	X						
			29	X	X						
	1MS01BD-30.25"	1MS-02	1	X	X		b				
			1	X	X		g				
			7	X	X		g				1NR-16
			12	X	X		g				
	1MS143AD-12"		13	X	X		g				
			15	X	X		g				
	1MS07A-28"		18	X	X		g				
			22	X	X						
			35	X	X		g				
			37B	X	X						
			43	X	X						
	1MS13AD-8"		23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			27	X	X						
			28	X	X						
			29	X	X						
			30	X	X						

SYSTEM: Main Steam (MS)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS	
C5.21	1MS13AD-8"	1MS-02	31	X	X		f					
			32	X	X		f					
			33	X	X							
			34	X	X							
	1MS01Aa-30.25"	1MS-03	1	X	X		b					
			6	X	X							
			7B	X	X							
			9	X	X							
			10	X	X							
			13	X	X							
			16	X	X							
			19	X	X							
			22	X	X							
			23	X	X							
			26	X	X							
	1MS01BA-30.25"	1MS-04	1	X	X		b					
			4	X	X		g					
			7	X	X		g				1NR-16	
			12	X	X		g					
	1MS143AA-12"		13	X	X		g					
			15	X	X		g					
	1MS07AA-28"		18	X	X		g					
			22	X	X							
			23	X	X		g					
			25B	X	X							
			31	X	X		g					
			19B	X	X							

SYSTEM: Main Steam (MS)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1MS13AA-8"		32	X	X						
			33	X	X						
			34	X	X						
			35	X	X						
			36	X	X						
			37	X	X						
			38	X	X						
			39	X	X						
			40	X	X						
			41	X	X		f				
			42	X	X						
			43	X	X						
	1MS01AB-32.75"	1MS-05	1	X	X		b				
			6	X	X						
			7B	X	X						
			9	X	X						
			10	X	X						
			13	X	X						
			16	X	X						
			19	X	X						
			22	X	X						
			23	X	X						
			26	X	X						
	1MS01BB-32.75"	1MS-06	1	X	X		b				
			4	X	X		g				
			9	X	X		g				
			17	X	X						
	1MS143AB-12"		12	X	X		g				
			14	X	X		g				

SYSTEM: Main Steam (MS)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1MS07AB-28"		18	X	X		g				
			21	X	X						
			24	X	X						
			29	X	X						
			41	X	X		g				
			49	X	X						
	1MS13AB-8"		27	X	X						
			30	X	X						
			31	X	X						
			32	X	X						
			33	X	X						
			34	X	X						
			35	X	X						
			36	X	X						
			37	X	X		f				
			38	X	X						
			39	X	X						
			40	X	X						
	1MS01AC-32.75"	1MS-07	1	X	X		b				
			6	X	X						
			9	X	X						
			10B	X	X						
			12	X	X						
			13	X	X						
			16	X	X						
			19	X	X						
			22	X	X						
			25	X	X						
			26	X	X						
			29	X	X						
			32	X	X						

SYSTEM: Main Steam (MS)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1MS01BC-32.75"	1MS-08	1	X	X		b				
			4	X	X		g				
			7	X	X		g				
			12	X	X						
	1MS143AC-12"		13	X	X		g				
			15	X	X		g				
	1MS13AC-8"		32	X	X						
			33	X	X						
			34	X	X						
			35	X	X						
			36	X	X						
			37	X	X						
			38	X	X						
			39	X	X		f				
			40	X	X						
			41	X	X						
			42	X	X						
			43	X	X						
	1MS07AC-28"		18	X	X		g				
			22	X	X						
			23	X	X		g				
			31	X	X		g				
			19B	X	X						
	1RH01BA-12"	1RH-04	75	X	X		e				

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1SI05BA-8	1SI-04	1	X	X						
			3	X	X						
			4	X	X						
			5	X	X						
			6	X	X		el				
	1SI05CD-8		7	X	X		el				
			7A	X	X						
			8	X	X						
			9	X	X						
			10	X	X						
			11	X	X						
			12	X	X						
	1SI05CA-8"		13	X	X		el				
			14	X	X						
			15	X	X		el				
			16	X	X		el				
			16A	X	X						
			16B	X	X						
			17	X	X		el				
			18	X	X		el				
			19	X	X		el				
			20	X	X		el				
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			26A	X	X						
			27	X	X						
			28	X	X						
			29	X	X						

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.21	1SI05CA-8	1SI-04	30	X	X						
			31	X	X						
			32	X	X						
			33	X	X						
			34	X	X						
			34A	X	X						
			35	X	X						
			36	X	X						
			37	X	X						
			38	X	X						
			38A	X	X						
			39	X	X						
			40	X	X						
			41	X	X						
			42	X	X						
			43	X	X						
			44	X	X						
			44A	X	X						
			44B	X	X						
			45	X	X						
			45A	X	X						
			45B	X	X						
			46	X	X						
			47	X	X						
			48	X	X						
			49	X	X						
			50	X	X						
			51	X	X						
			52	X	X						
			53	X	X						
			54	X	X						
			55	X	X						

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1SI05CA-8	1SI-04	56	X	X						
			57	X	X						
			58	X	X						
	1SI04A-12	1SI-12	21	X	X						
	1SI04B-12		22	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			27	X	X						
			28	X	X						
			29	X	X						
			30	X	X						
			31	X	X						
			32	X	X						
			33	X	X						
			34	X	X		el				
			35	X	X		el				
			39	X	X						
	1SI04C-8		40	X	X		el				
			40A	X	X						
			41	X	X						
	1SIA4A-8"		42	X	X		el				
			43	X	X						
			44	X	X						
			45	X	X						

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1SI06BA-24	1SI-24	1BA	X	X						
			4BA	X	X						
			9BA	X	X						
			12BA	X	X						
			13BBA	X	X						
			15BA	X	X						
			20BA	X	X						
			21BA	X	X						
			25BA	X	X						
			28BA	X	X						
			33BA	X	X						
			34BA	X	X						
	1SI06BB-24		1BB	X	X						
			4BB	X	X						
			9BB	X	X		el				
			11ABB	X	X						
			12BB	X	X						
			17BB	X	X						
			18BB	X	X						
			21BB	X	X						
			25BB	X	X						
			30BB	X	X						
			30ABB	X	X						
	1SI05CC-8"	1SI-26	1	X	X						
			2	X	X						
			3	X	X						
			4	X	X						
	1SI05BB-8"		5	X	X						
			6	X	X						
			7	X	X						
			8	X	X						

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1SI05BB-8"	1SI-26	10	X	X						
	1SI05CB-8"		11	X	X						
			12	X	X						
			13	X	X						
			14	X	X						
			15	X	X						
			16	X	X						
			17	X	X						
			18	X	X						
			19	X	X						
			20	X	X						
			21	X	X						
			22	X	X						
			23	X	X						
			24	X	X						
			25	X	X						
			26	X	X						
			27	X	X						
			28	X	X						
			29	X	X						
			29A	X	X						
			30	X	X						
			31	X	X						
			31A	X	X						
			32	X	X						
			32A	X	X						
			33	X	X						
			34	X	X						
			35	X	X						
			36	X	X						
			37	X	X						
			38	X	X						

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.21	1SI05CB-8	1SI-26	39	X	X						
			40	X	X						
			41	X	X						
			42	X	X						
			43	X	X						
			44	X	X						
			45	X	X						
			46	X	X						
			47	X	X						
			48	X	X						
			48A	X	X						
			49	X	X						
			50	X	X						
			51	X	X						
			52	X	X						
			53	X	X						
			54	X	X						
			55	X	X						
			56	X	X						
			57	X	X						
			58	X	X						
			59	X	X						
			60	X	X						
			61	X	X						
	1SI09AC-10	1SI-28	26	X	X		e1				
	1SI09AB-10		52	X	X						
	1SI09AD-10	1SI-30	26AD	X	X		e1				
	1SI09AA-10		27AA	X	X						

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [_] 3 [_] 4 [_]	PAGE 195 OF 247 REVISION 1
SYSTEM: Main Steam (MS)	CODE CATEGORY: C-F (Cont.)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.22	1MS01AD-30.25"	1MS-01	2	X	X		b				
			3	X	X		b				
			4	X	X						
			5	X	X						
			7	X	X						
			8	X	X						
			10	X	X						
			11	X	X						
			14	X	X						
			15	X	X						
			17	X	X						
			18	X	X						
			20	X	X						
			21	X	X						
			23	X	X						
			24	X	X						
			27	X	X						
			28	X	X						
	1MS01BD-30.25"	1MS-02	2	X	X		b				
			3	X	X		j				
			5	X	X		j				
			6	X	X		j				
			8	X	X		j				
			11	X	X		j				
	1MS07AD-28"		19	X	X		j				
			21	X	X						
			36	X	X		j				
			37A	X	X						
			37C	X	X						
			42	X	X						

SYSTEM: Main Steam (MS)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.22	1MS01AA-30.25"	1MS-03	2	X	X		b				
			3	X	X		b				
			4	X	X						
			5	X	X						
			7	X	X						
			7A	X	X						
			7C	X	X						
			8	X	X						
			11	X	X						
			12	X	X						
			14	X	X						
			15	X	X						
			17	X	X						
			18	X	X						
			20	X	X						
			21	X	X						
			24	X	X						
			25	X	X						
	1MS01BA-30.25"	1MS-04	2	X	X		b				
			3	X	X		j				
			5	X	X		j				
			6	X	X		j				
			8	X	X		j				
			11	X	X		j				
	1MS07AA-28"		19	X	X		j				
			21	X	X						
			24	X	X		j				
			25A	X	X						
			25C	X	X						
			30	X	X		j				
			19A	X	X						

SYSTEM: Main Steam (MS)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.22	1MS07AA-28"	1MS-04	19C	X	X						
	1MS01AB-	1MS-05	2	X	X		b				
			3	X	X		b				
			4	X	X						
			5	X	X						
			7	X	X						
			7A	X	X						
			7C	X	X						
			8	X	X						
			11	X	X						
			12	X	X						
			14	X	X						
			15	X	X						
			17	X	X						
			18	X	X						
			20	X	X						
			21	X	X						
			24	X	X						
			25	X	X						
	1MS01BB-	1MS-06	2	X	X		b				
	32.75"		3	X	X		j				
			5	X	X		j				
			8	X	X		j				
			10	X	X		j				
			16	X	X						
	1MS07AB-28"		19	X	X		j				
			20	X	X						
			22	X	X						
			23	X	X						
			25	X	X						
			24	X	X						

SYSTEM: Main Steam (MS)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.22	1MS07AB-28"		42	X	X		j				
			48	X	X						
	1MS01AC-	1MS-07	2	X	X		b				
	32.75"		3	X	X		b				
			4	X	X						
			5	X	X						
			7	X	X						
			8	X	X						
			10	X	X						
			10A	X	X						
			10C	X	X						
			11	X	X						
			14	X	X						
			15	X	X						
			17	X	X						
			18	X	X						
			20	X	X						
			21	X	X						
			23	X	X						
			24	X	X						
			27	X	X						
			28	X	X						
			30	X	X						
			31	X	X						
	1MS01BC-	1MS-08	2	X	X		b				
			3	X	X		j				
			5	X	X		j				
			6	X	X		j				
			8	X	X		j				
			11	X	X						

SYSTEM: Main Steam (MS) | CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.22	1MS07AC-28"	1MS-08	19	X	X		J				
			21	X	X						
			24	X	X		J				
			30	X	X		J				
			19A	X	X						
			19C	X	X						

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	PAGE 200 OF 247 REVISION 1
SYSTEM: SI	CODE CATEGORY: C-F (Cont.)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.22	1SI04B-12	1SI-12	39A	X	X		e4				
	1SI06BA-24	1SI-24	2BA	X	X						
			3BA	X	X						
			5BA	X	X						
			6BA	X	X						
			7BA	X	X						
			8BA	X	X						
			10BA	X	X						
			11BA	X	X						
			13BA	X	X						
			13ABA	X	X						
			13CBA	X	X						
			14BA	X	X						
			16BA	X	X						
			17BA	X	X						
			18BA	X	X						
			19BA	X	X						
			20ABA	X	X						
			20BBA	X	X						
			22BA	X	X						
			24BA	X	X						
			26BA	X	X						
			27BA	X	X						
			29BA	X	X						
			30BA	X	X						
			31BA	X	X						
			32BA	X	X						
			33ABA	X	X						
			33BBA	X	X						

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C[illegible]	1SIC6BB-24	1SI-24	2BB	X	X						
			[illegible]BB	X	X						
			5BB	X	X						
			6BB	X	X		e4				
			7BB	X	X		e4				
			8BB	X	X		e4				
			10BB	X	X						
			11BB	X	X						
			11BBB	X	X						
			11CBB	X	X						
			13BB	X	X						
			14BB	X	X						
			15BB	X	X						
			16BB	X	X						
			17ABB	X	X						
			19BB	X	X						
			20BB	X	X						
			22BB	X	X						
			24BB	X	X						
			26BB	X	X						
			27BB	X	X						
			28BB	X	X						
			29BB	X	X						
			30BBB	X	X						
			30CBB	X	X						
			17BBB	X	X						

SYSTEM: Feedwater (FW)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.30	Pipe Branch Connections >4 in Nominal Branch Pipe Size										
C5.31	1FW81AD-6	1FW-01	2		X						
	1FW81AA-6	1FW-02	2		X		g				
	1FW81AB-6	1FW-03	2		X						
	1FW81AC-6	1FW-04	2		X						

SYSTEM: Main Steam (MS)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL.	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C5.31	1MS143AD-12	1MS-02	9		X		g				
	1MS13AD-8		20		X						
	1MS07AD-28		37		X						
			38		X						
			39		X						
			40		X						
			41		X						
	1MS143AA-12	1MS-04	9		X		g				
	1MS13AA-8		20		X		g				
	1MS07AA-28		25		X		g				Inaccessible, 24A & 24B Alternates, 1NR-1
			26		X		g				Inaccessible, 26A & 26B Alternates, 1NR-1
			27		X		g				Inaccessible, 27A & 27B Alternates, 1NR-1
			28		X		g				Inaccessible, 28A & 28B Alternates, 1NR-1
			29		X		g				Inaccessible, 29A & 29B Alternates, 1NR-1
	1MS143AB-12	1MS-06	11		X		g				
	1MS13AB-8		26		X						
	1MS07AB-28		43		X						
			44		X						
			45		X						
			46		X						
			47		X						
	1MS143AC-12	1MS-08	9		X		g				
	1MS13AC-12		20		X						
	1MS07AB-28		25		X						
			26		X						
			27		X						

SYSTEM: Main Steam (MS)

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.31	1MS07AC-28"		28		X						
			29		X						

SYSTEM: SI

CODE CATEGORY: C-F (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C5.31	1RH01CA-16	1SI-24	23BA		X						
			23ABA		X						
	1RH01CB-16	1SI-24	23BB		X						
			23ABB		X						
C5.32	Longitudinal Welds		NA								

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 206 OF 247 REVISION 1
SYSTEM:	CODE CATEGORY: C-G	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Pumps										
C6.10	Casing Welds										None
	Valves										
C6.20	Body Welds										None

SYSTEM: Chemical and Volume Control, Residual Heat | CODE CATEGORY: C-H, Pressure Retaining Components

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C7.10	Pressure Vessels Pressure Retaining Components										
	Excess Letdown Heat Exchanger	1ELHX-01	1CV01AA			2	a				System Leakage Test
			1CV01AB			2	a				
	Volume Control Tank	1VCT-01	1CV01T			2	a				
	Seal Water Return Filter	1SWF-01	1CV02F			2	a				
	Regenerative Heat Exchanger	1RGX-01	1CV03AA			2	a				
			1CV03AB			2	a				
	Reactor Coolant Filter	1SWF-01	1CV03F			2	a				
	Letdown Heat Exchanger	1LHX-01	1CV04AA			2	a				
			1CV04AB			2	a				
	Letdown Reheat Heat Exchanger	1LRHX-01	1CV05A			2	a				
			1CV05B			2	a				
	Residual Heat Heat Exchanger	1RHX-01	1RH02AA			2	a				
			1RH02AB			2	a				

SYSTEM: Reactor Coolant
All Class 2 Portions

CODE CATEGORY: C-H, Pressure Retaining Components

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C7.10	Steam Generators (Secondary Side)	1SG-01	1RC01BA			2	a				System Leakage Test (Note 7)
		1SG-02	1RC01BB			2	a				
		1SG-03	1RC01BC			2	a				
		1SG-04	1RC01BD			2	a				
C7.20	Pressure Retaining Components	Same as C7.10 above	All			2	a				System Hydro Test (Note 7)
C7.30	Piping Pressure Retaining Components	Aux Feedwater (M037-1)	All			2	a				System Leakage Test
		Boron Thermal Regeneration (M066-1)	All			2	a				
		Component Cooling (M066-1)	All			2	a				
		Containment Spray (M046-1)	All			2	a				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 209 OF 247 REVISION 1

SYSTEM: All Class 2 Portions

CODE CATEGORY: C-H, Pressure Retaining Components

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C7.30	Pressure Retaining Components	Chemical and Volume Control (M064)	All			2	a				System Leakage Test
		Fuel Pool Cooling (M063-1)	All			2	a				
		Fire Prot. (M052-1)	All			2	a				
		Main Fdwtr. (M036)	All			2	a				
		Inst. Air (M055)	All			2	a				
		Main Steam (M035)	All			2	a				
		Nitrogen Sys (M057)	All			2	a				
		Off Gas (M047)	All			2	a				

SYSTEM: All Class Portions

CODE CATEGORY: C-H (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C7.30		Process Rad Monitoring (M078)	All			2	a				System Leakage Test
		Process Samp (M068)	All			2	a				
		Reactor Coolant	All			2	a				
		Reactor Bldg Equip Drain (M070)	All			2	a				
		Reactor Bldg Floor Drain (M048)	All			2	a				
		Residual Heat Removal	All			2	a				
		Pressurizer (M060-5)	All			2	a				
		Service Air System	All			2	a				

SYSTEM: All Class 2 Portions

CODE CATEGORY: C-H (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
C7.30	Pressure Retaining Components	Steam Gen. Blowdown (M048)	All			2	a				System Leakage Test
		Station Htg Reactor Bldg (M072)	All			2	a				
		Safety Inj (M061)	All			2	a				
		Essential Svc Water (M042)	All			2	a				
		Primary Cont Purge (M105)	All			2	a				
		Makeup Demin (M049)	All			2	a				
		Chilled Wtr (M118)	All			2	a				

SYSTEM: All Class 2 Portions | CODE CATEGORY: C-H (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
C7.40	Pressure Retaining Components	Same as C7.30 (above)	All			2	a				System Hydro Test
	Pumps										
C7.50	Pressure Retaining Components	Centigual Charging Pumps	1CV01PA			2	a				System Leakage Test
			1CV01PB			2	a				
		Positive Disp Charging Pump	1CV02P			2	a				
		Residual Heat Removal Pumps	1RH01PA			2	a				
			1RH01PB			2	a				
C7.60	Pressure Retaining Components	Same as C7.50 above				2	a				System Hydro Test
	Valves										
C7.70	Pressure Retaining Components	In Systems from C7.30				2	a				System Leakage Test
C7.80	Pressure Retaining Components	In Systems from C7.30				2	a				System Hydro Test

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 213 OF 247 REVISION 1

SYSTEM:
All Class 3 Portions

CODE CATEGORY: D-A Systems In Support of Reactor Shutdown Function

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
D1.10	Pressure Retaining Components	Boric Acid Processing (M065)	All			2	a				System Leakage & Hydro Tests
		Boron Therm Regenera-tion (M064)	All			2	a				
		Component Cooling (M066)	All			2	a				
		Chemical and Volume Cont (M064)	All			2	a				
		Process Samp (M068)	All			2	a				
		Reactor Bldg Equip Drn (M070)	All			2	a				
		Pressurizer (M060)	All			2	a				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 214 OF 247 REVISION 1

SYSTEM: All Class 3 Portions

CODE CATEGORY: D-A Systems In Support of Reactor Shutdown Function

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
D1.10	Pressure Retaining Components	Aux Bldg Equip Drn (M042) (M064)	All			2	a				System Leakage & Hydro Tests

SYSTEM: C.C. | CODE CATEGORY: D-A Systems In Support of Reactor Shutdown Function

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
D1.20	Intergral Attachments Component Supports and Restraints										
	1CC38A-6					3	a				1CC04006X
	1CC50F-6					3	a				1CC13002X
						3	a				1CC13004X
	1CC01AA-12					3	a				1CC01010X
						3	a				1CC01038R
	1CC02CA-12					3	a				1CC02022X
						3	a				1CC02024X
						3	a				1CC02030X
						3	a				1CC02082X
						3	a				1CC02085X
	1CC02CB-12					3					1CC02015X
						3					1CC02091X
						3					1CC02095X
						3					1CC02104X
	1CC04AA-12					3	a				1CC03078X
						3	a				1CC03080X
						3	a				1CC03082X
						3	a				1CC03084X

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM	PAGE 216 OF 247
	INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	REVISION 1

SYSTEM: C.C.

CODE CATEGORY: D-A Systems In Support of Reactor Shutdown Function

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
D1.20	1CC04AB-12					3					1CC03002V
						3					1CC03004X
						3					1CC03005X
						3					1CC03008X
						3					1CC03012X
						3					1CC03015X
						3					1CC03018X
	1CC04CB-12					3	a				1CC03047X
	0CC04C-12					3	a				1CC03105X
	1CC03B-12					3	a				1CC04010X
	0FC03B-14					3	a				1FC03011X
						3	a				1FC03015X
	1CC01B-16					3	a				1CC01011X
	0CC01D-16					3	a				1CC01029X
						3	a				1CC01030X
	1CC03A-16					3	a				1CC02045X
						3	a				1CC02168A
	0CC04B-16					3	a				1CC03021X

SYSTEM: C.C. | CODE CATEGORY: D-A Systems In Support of Reactor Shutdown Function

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
D1.20	1CC05G-16					3	a				1CC03051X
						3	a				1CC03053X
						3	a				1CC03143A
	1CC59A-16					3	a				1CC04014X
	1CC60A-16					3	a				1CC13022X
						3	a				1CC13027X
						3	a				1CC13030X
						3	a				1CC13033X
						3	a				1CC13035X
						3	a				1CC13038X
D1.30	Integral Attachments Mechanical Hydraulic Snubbers	N/A									
D1.40	Integral Attachments Spring Type Supports	N/A									
D1.50	Integral Attachments Constant Load Type Supports	N/A									

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	PAGE 218 OF 247 REVISION 1

SYSTEM: All Class 3 Portions	CODE CATEGORY: D-A Systems In Support of Reactor Shutdown Function

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
D1.60	Integral Attachments Shock Absorbers	N/A									

SYSTEM: All Class 3 Portions

CODE CATEGORY: D-B Systems in Support of Emergency Core Cooling, Containment Heat Removal Atmosphere Cleanup, and Reactor Residual Heat Removal

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
D2.10	Pressure Retaining Components	Aux Fd Water (M037)	All			2	a				System Leakage & Hydro Tests
		Component Cooling (M066)	All			2	a				
		Chemical and Volume Cont (M064)	All			2	a				
		Diesel Fuel Oil (M050)	All			2	a				
		Radioactive Waste Gas (M069)	All			2	a				
		Residual Heat Removal (M062)	All			2	a				
		Serv Air (Diesel Gen) (M054)	All			2	a				

SYSTEM: All Class 3 Portions

CODE CATEGORY: D-B Systems in Support of Emergency Core Cooling, Containment Heat Removal Atmosphere Cleanup, and Reactor Residual Heat Removal

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS	
D2.10	Pressure Retaining Components	Safety Inj (M061)	All			2	a				System Leakage & Hydro Test	
		Essential Svc Water (M042) (M064)	All			2	a					
		Chilled Water (M118)	All			2	a					

SYSTEM: A.F. | CODE CATEGORY: D-B (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
D2.20	Integral Attachments Component Supports and Restraints										
	1AF02CA-4					3	a				1AF01022X
						3					1AF01027X
	1AF02CB-4					3					1AF10022X
						3					1AF10023X
	1AF02CC-4					3					1AF01008X
	1AF02CF-4					3					1AF09022X
	1AF02CG-4					3					1AF12021X
	1AF02AA-6					3	a				1AF01031X
	1AF02AB-6					3					1AF02003X

SYSTEM: S.X. | CODE CATEGORY: D-B (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
D2.20	1SX04DA-6					3	a				1SX17037X
						3	a				1SX17038X
						3	a				1SX17040X
						3	a				1SX17041X
						3	a				1SX17078X
	1SX05CA-6					3					1SX36016X
						3					1SX36017X
						3					1SX36019X
						3					1SX36020X
						3					1SX36054X
	1SX05CB-6					3	a				1SX30008X
	1SXA4A-6					3	a				1SX72009P
	0SX33AB-8					3	a				1SX31003X
	1FC02A-10					3	a				1FC01004R
	1SX06EC-10					3					1SX06023A
	1SX06FA-10					3	a				1SX06029A
	1SX08BA-10					3	a				1SX06099A
	1SX08BC-10					3					1SX06100A

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 223 OF 247 REVISION 1
SYSTEM: SX	CODE CATEGORY: D-B (Cont.)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
D2.20	1SX093A-10					3	a				1SX08101X
	1SX26AA-10					3	a				1SX50003X
	1SX26AB-10					3					1SX16011X
						3					1SX16015X
	1SX27DA-10					3					1SX47003X
						3					1SX13013X
	1SX27DB-10					3	a				1SX13001X
	1SX06AA-16					3	a				1SX17007X
						3	a				1SX17013X
						3	a				1SX17015R
						3	a				1SX17016X
						3	a				1SX17021R
						3	a				1SX17035R
	1SX07HB-20					3	a				1SX24006X

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 224 OF 247 REVISION 1
SYSTEM: S.X.	CODE CATEGORY: D-B (Cont.)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
D2.20	1SX03A-30					3	a				1SX02038X
						3	a				1SX02043X
						3	a				1SX02060R
						3	a				1SX02078R
	0SX03A-30					3	a				1SX02045X
						3	a				1SX02050X
						3	a				1SX02070R
	0SX02D-30					3	a				1SX27001R
						3	a				1SX27003X
	0SX24A-30					3	a				1SX02052X
						3	a				1SX02054X
	1SX01BA-36					3	a				1SX20004R
	1SX01BB-36					3					1SX22001R
	1SX02AA-36					3	a				1SX21001R
	1SX02AB-36					3					1SX23001R

SYSTEM: S.X. | CODE CATEGORY: D-B (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
D2.20	1SX03B-42					3	a				1SX02008X
						3	a				1SX02010X
						3	a				1SX02013X
						3	a				1SX02015X
						3	a				1SX02061X
						3	a				1SX02062X
	0SX03CA-48					3	a				1SX02003X
	0SX03CR-48					3					1SX02037K
						3					1SX02059X
						3					1SX02063X

SYSTEM: W.O./All Class 3 Portions | CODE CATEGORY: D-B (Cont.)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
D2.20	0W020MA-24					3	a				1WO37005A
	0W020MB-24					3					1W037006A
	0W014MB-20					3	a				1W028006R
D2.30	Integral Attachments Mechanical and Hydraulic Snubbers	N/A									
D2.40	Integral Attachments Spring Type Supports	N/A									
D2.50	Integral Attachments Constant Load Supports	N/A									
D2.60	Integral Attachments Shock Absorbers	N/A									

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 |_| 3 |_| 4 |_|	PAGE 227 OF 247 REVISION 1
SYSTEM: All Class 3 Portions	CODE CATEGORY: D-C, Systems in Support of Residual Heat Removal from Spent Fuel Storage Pool	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
D3.10	Pressure Retaining Components	Component Cooling (M066)	All			2	a				System Leakage & Hydro Tests
		Fuel Pool Cooling (M063)	All			2	a				
D3.20	Integral Attachments Component Supports and Restraints										
	1FC02A-10					3	a				1FC01004R
	0FC03B-14					3	a				1FC03011X
						3	a				1FC03015X
D3.40	Integral Attachments Spring Type Supports	N/A									
D3.50	Integral Attachments Constant Load Supports	N/A									
D3.60	Integral Attachments Shock Absorbers	N/A									

SYSTEM: Pressurizer
Steam Generators

CODE CATEGORY: Alternate Exams

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	Nozzle Inner Radius	1PZR-01	N1			1	a				1NR-4
			N2			1	a				1NR-4
			N3			1	a				1NR-4
			N4A			1	a				1NR-4
			N4B			1	a				1NR-4
			N4C				a				1NR-4
		1SG-01	SGN-1A			1	a				1NR-4
			SGN-1B			1	a				1NR-4
		1SG-02	SGN-1A			1	a				1NR-4
			SGN-1B			1	a				1NR-4
		1SG-03	SGN-1A			1	a				1NR-4
			SGN-1B			1	a				1NR-4
		1SG-04	SGN-1A			1	a				1NR-4
			SGN-1B			1	a				1NR-4

SYSTEM: Chemical and Volume Control | CODE CATEGORY: Alternate Exams

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Reactor Coolant Filter	1SWF-01	1RCFC-C1		X		a				1NR-8
			1RCFC-C2		X		a				1NR-8
	Seal Water Filter	1SWR-01	1SWRF-C1		X		a				1NR-8
			1SWRF-C2		X		a				1NR-8
	Letdown HX 1CV04AA	1LHX-01	1HXHXC-1		X		a				1NR-10
	Excess Letdown Hx 1CV01AB	1ELHX-01	1ELHX-3		X		a				1NR-11
			1ELHXC-1		X		a				1NR-17
			1ELHXC-2		X		a				1NR-17
	Letdown Reheat Hx 1CV05A	1LRHX-01	1LRHXC-1		X		a				1NR-17
			1LRHXC-2		X		a				1NR-17
	Volume Control Tank 1CV01T	1VCT-01	1VCTC-2		X		a				1NR-17
			1VCTC-3		X		a				1NR-17

SYSTEM: MS/RH/CV | CODE CATEGORY: Alternate Exams

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1RC01BA	1SG-01	SGN-2			1	a				1NR-12
	1RH02AA	1RHX-01	1RHXN-1			1	a				1NR-12
			1RHXN-2			1	a				1NR-12
	Chemical & Volume Control Pump										
	1CV01PA	1RHP-01	CVP-1			1	a				1NR-15
			CVP-2			1	a				1NR-15
			CVP-3			1	a				1NR-15
			CVP-4			1	a				1NR-15
	Residual Heat Pump 1RH01PA	1RHP-01	RHP-1			1	a				1NR-15
			RHP-2			1	a				1NR-15
			RHP-3			1	a				1NR-15

SYSTEM: FW | CODE CATEGORY: Augmented Inspection (High Energy Lines) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1FW86AD-16	1FW-01	• 1	X			a				1NR-16 (• = This weld is also selected for Vol. examination by code)
			• 3	X			a				
	1FW03DD-16		4	X			a				
			• 5	X			a				
	1FW03CD-16		32	X			a				
	1FW86AA-16	1FW-02	• 1	X			a				1NR-16
			• 3	X			a				
	1FW03DA-16		• 4	X			a				
			5	X			a				
			• 5A	X			a				
	1FW03CA-16		30	X			a				
			31	X			a				
	1FW86AB-16	1FW-03	• 1	X			a				
			• 3	X			a				
	1FW03DB-16		4	X			a				
			5	X			a				
			• 5A	X			a				
	1FW03CB-16		32	X			a				
			33	X			a				

SYSTEM: FW | CODE CATEGORY: Augmented Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1FW86AC-16	1FW-04	• 1	X			a				(• = This weld is also selected for Vol. examination by code.)
			3	X			a				
	1FW03DC-16		• 4	X			a				
			4B	X			a				
			• 5	X			a				
	1FW03CC-16		30	X			a				
			31	X			a				
	1FW81AB-6	1FW-05	• 1	X			a				
			• 2	X			a				
			• 3	X			a				
			4	X			a				
			5	X			a				
			6	X			a				
			7	X			a				
			8	X			a				
			9	X			a				
			10	X			a				
			15	X			a				
			16	X			a				
			17	X			a				
	1FW81BB-6		•18	X			a				
			•19	X			a				
			•20	X			a				
			•21	X			a				
			•23	X			a				

SYSTEM: FW | CODE CATEGORY: Augmented Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1FW81BB-6	1FW-05	24	X			a				(• = This weld is also selected for Vol. examination by code.)
			25	X			a				
			26	X			a				
			27	X			a				
	1FW87CB-6		28	X			a				
	1FW81AC-6	1FW-10	• 1	X			a				
			• 2	X			a				
			• 3	X			a				
			4	X			a				
			5	X			a				
			6	X			a				
			7	X			a				
			8	X			a				
			9	X			a				
			10	X			a				
			15	X			a				
			16	X			a				
			17	X			a				
	1FW81BC-6		17A	X			a				
			18	X			a				
			19	X			a				
			20	X			a				
			21	X			a				
			22	X			a				
			23	X			a				
			24	X			a				

SYSTEM: FW | CODE CATEGORY: Augmented Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1FW87CC-6	1FW-10	25	X			a				(• = This weld is also selected for Vol. examination by code.)
			26	X			a				
			27	X			a				
	1FW81AA-6	1FW-11	• 1	X			a				
			• 2	X			a				
			• 3	X			a				
			4	X			a				
			5	X			a				
			6	X			a				
			7	X			a				
			8	X			a				
			9	X			a				
			10	X			a				
			15	X			a				
			16	X			a				
			17	X			a				
	1FW81BA-6		18	X			a				
			19	X			a				
			20	X			a				
			21	X			a				
			22	X			a				
			23	X			a				
			24	X			a				
	1FW87CA-6		25	X			a				
			26	X			a				
			27	x			a				

SYSTEM: FW | CODE CATEGORY: Augmented Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1FW81Ad-6	1FW-12	• 1	X			a				(• = This weld is also selected for Vol. examination by code.)
			• 2	X			a				
			• 3	X			a				
			4	X			a				
			5	X			a				
			6	X			a				
			7	X			a				
			8	X			a				
			9	X			a				
			10	X			a				
			15	X			a				
			16	X			a				
			17	X			a				
	1FW81BD-6		18	X			a				
			19	X			a				
			20	X			a				
			21	X			a				
			22	X			a				
			23	X			a				
			24	X			a				
	1FW87CD-6		25	X			a				
			26	X			a				
			27	X			a				

SYSTEM: MS | CODE CATEGORY: Augmented Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1MS01BD-30¼	1MS-02	• 1	X			a				(• = This weld is also selected for Vol. examination by code.)
			2	X			a				
			3	X			a				
			• 4	X			a				
			5	X			a				
			6	X			a				
			• 7	X			a				
			8	X			a				
			11	X			a				
			•12	X			a				
	1MS143AD-12		•13	X			a				
			•15	X			a				
	1MS07AD-28		•18	X			a				
			19	X			a				
			21	X			a				
			22	X			a				
			•35	X			a				
			36	X			a				
			37	X			a				Inaccessible 36A & 36B Alternates, 1NR-1
			36A		X		a				
			36B		X		a				
			38	X			a				Inaccessible 38A & 38B Alternates, 1NR-1
			38A		X		a				
			38B		X		a				

SYSTEM: MS | CODE CATEGORY: Augmented Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1MS07AD-28	1MS-02	39	X			a				Inaccessible, 39A & 39B Alternates, 1NR-1
			39A		X		a				
			39B		X		a				
			40	X			a				Inaccessible, 40A & 40B Alternates, 1NR-1
			40A		X		a				
			40B		X		a				
			41	X			a				Inaccessible, 41A & 41B Alternates, 1NR-1
			41A		X		a				
			41B		X		a				(• = This weld is also selected for Vol. examination by code.)
			37A	X			a				
			37B	X			a				
			37C	X			a				
			42	X			a				
			43	X			a				
	1MS13AD-8		23	X			a				
			24	X			a				
			25	X			a				
			26	X			a				
			27	X			a				
			28	X			a				
			29	X			a				
			30	X			a				
			•31	X			a				
			•32	X			a				
			33	X			a				
			34	X			a				

SYSTEM: MS | CODE CATEGORY: Augmented Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1MS01CD-30¼	1MS-02	44	X			a				(• = This weld is also selected for Vol. examination by code.)
			45	X			a				
	1MS01BA-30¼	1MS-04	• 1	X			a				
			2	X			a				
			3	X			a				
			• 4	X			a				
			5	X			a				
			6	X			a				
			• 7	X			a				
			8	X			a				
			11	X			a				
			•12	X			a				
	1MS143AA-12		•13	X			a				
			•15	X			a				
	1MS07AA-28		•18	X			a				
			19	X			a				
			19A	X			a				
			19B	X			a				
			19C	X			a				
			21	X			a				
			22	X			a				
			•23	X			a				
			24	X			a				
			•25	X			a				Inaccessible, 24A & 24B Alternates, 1NR-1

SYSTEM: MS | CODE CATEGORY: Augmented Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1MS07AA-28	1MS-04	24A		X		a				(• = This weld is also selected for Vol. by code.)
			24B		X		a				
			•26	X			a				Inaccessible, 26A & 26B Alternates, 1NR-1
			26A		X		a				
			26B		x		a				
			•27	X			a				Inaccessible, 27A & 27B Alternates, 1NR-1
			27A		X		a				
			27B		X		a				
			•28	X			a				Inaccessible, 28A & 28B Alternates, 1NR-1
			28A		X		a				
			28B		X		a				
			•29	X			a				Inaccessible, 29A & 29B Alternates, 1NR-1
			29A		X		a				
			29B		X		a				
			25A	X			a				
			25B	X			a				
			25C	X			a				
			30	X			a				
			•31	X			a				
	1MS13AA-8		32	X			a				
			33	X			a				
			34	X			a				
			35	X			a				
			36	X			a				
			37	X			a				
			38	X			a				
			39	X			a				

SYSTEM: MS | CODE CATEGORY: Augmented Inspections (Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1MS13AA-8	1MS-04	40	X			a				(• = This weld is also selected for Vol. examination by code.)
			•41	X			a				
			42	X			a				
			43	X			a				
	1MS01CA-30¼		44	X			a				
			45	X			a				
			46	X			a				
			47	X			a				
			48	X			a				
			49	X			a				
			50	X			a				
			51	X			a				
			52	X			a				
			53	X			a				
			54	X			a				
	1MS01BB-323/4	1MS-06	• 1	X			a				
			2	X			a				
			3	X			a				
			• 4	X			a				
			5	X			a				
			8	X			a				
			• 9	X			a				
			10	X			a				
			16	X			a				
			17	X			a				

SYSTEM: MS | CODE CATEGORY: Augmented Inspections (Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1MS143AB-12	1MS-06	•12	X			a				(• = This weld is also selected for Vol. examination by code.)
			•14	X			a				
	1MS07AB-28		•18	X			a				
			19	X			a				
			20	X			a				
			21	X			a				
			22	X			a				
			23	X			a				
			24	X			a				
			25	X			a				
			28	X			a				
			29	X			a				
			•41	X			a				
			42	X			a				
			43	X			a				Inaccessible, 43A & 43B Alternates, 1NR-1
			43A		X		a				
			43B		X		a				
			44	X			a				Inaccessible, 44A & 44B Alternates, 1NR-1
			44A		X		a				
			44B		X		a				
			45	X			a				Inaccessible, 45A & 45B Alternates, 1NR-1
			45A		X		a				
			45B		X		a				
			46	X			a				Inaccessible, 46A & 46B, Alternates 1NR-1
			46A		X		a				
			46B		X		a				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 242 OF 247 REVISION 1
SYSTEM: MS	CODE CATEGORY: Augmented Inspections (Inspections (High Energy Line.) (Cont.) (Note 5)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	1MS07AB-28	1MS-06	47	X			a				Inaccessible, 47A & 47B Alternates iNR-1
			47A		X		a				(• = This weld is also selected for
			47B		X		a				Vol. examination by code.)
			48	X			a				
			49	X			a				
	1MS13AB-8		27	X			a				
			30	X			a				
			31	X			a				
			32	X			a				
			33	X			a				
			34	X			a				
			35	X			a				
			36	X			a				
			•37	X			a				
			38	X			a				
			39	X			a				
			40	X			a				
	1MS01CB-323/4		50	X			a				
			51	X			a				
	1MS01BC-323/4	1MS-08	• 1	X			a				
			2	X			a				
			3	X			a				
			• 4	X			a				
			5	X			a				
			6	X			a				
			• 7	X			a				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 |X| 2 | | 3 | | 4 | |	PAGE 243 OF 247 REVISION 1
SYSTEM: MS	CODE CATEGORY: Augmented Inspections (Inspections (High Energy Lines) (Cont.) (Note 5)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	1MS01BC-323/4	1MS-08	8	X			a				(• = This weld is also selected for Vol. examination by code.)
			11	X			a				
			12	X			a				
	1MS143AC-12		•13	X			a				
			•15	X			a				
	1MS07AC-28		•18	X			a				
			19	X			a				
			21	X			a				
			22	X			a				
			•23	X			a				
			24	X			a				
			25	X			a				Inaccessible, 25A & 25B, Alternates, 1NR-1
			25A		X		a				
			25B		X		a				
			26	X			a				Inaccessible, 26A & 26B, Alternates, 1NR-1
			26A		X		a				
			26B		X		a				
			27	X			a				Inaccessible, 27A & 27B, Alternates, 1NR-1
			27A		X		a				
			27B		X		a				
			28	X			a				Inaccessible, 28A & 28B, Alternates, 1NR-1
			28A		X		a				
			28B		X		a				
			29	X			a				Inaccessible, 29A & 29B, Alternates, 1NR-1
			29A		X		a				

SYSTEM: MS | CODE CATEGORY: Augmented Inspections (High Energy Lines) (Cont.) (Note 5)

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
	1MS07AC-28	1MS-08	29B		X		a				(• = This weld is also selected for Vol. examination by code.)
			30	X			a				
			•31	X			a				
			19A	X			a				
			19B	X			a				
			19C	X			a				
	1MS13AC-8		32	X			a				
			33	X			a				
			34	X			a				
			35	X			a				
			36	X			a				
			37	X			a				
			38	X			a				
			•39	X			a				
			40	X			a				
			41	X			a				
			42	X			a				
			43	X			a				
	1MS01CC-323/4		44	X			a				
			45	X			a				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 245 OF 247 REVISION 1
SYSTEM: RC	CODE CATEGORY: Augmented Reactor Coolant Pump Flywheels (Note 6)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	Reactor Coolant Pump Flywheels	1RCP-01	1RCP01A	X	X		a				
			1RCP01B	X	X		a				
			1RCP01C	X	X		a				
			1RCP01D	X	X		a				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [ ] 3 [ ] 4 [ ]	PAGE 246 OF 247 REVISION 1
SYSTEM: MS	CODE CATEGORY: Augmented Turbine Rotors (Note 8)	

ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	SUR	VIS	ID SEL	PERIOD 1st	2nd	3rd	COMMENTS
	High Pressure Turbine Rotor		1MS01-K	X	X		a				
	Low Pressure		1MS-02KA	X	X		a				
			1MS-02KB	X	X		a				
			1MS-02KC	X	X		a				

BRAIDWOOD UNIT 1	INSERVICE INSPECTION PROGRAM INTERVAL 1 [X] 2 [_] 3 [_] 4 [_]	PAGE 247 OF 247 REVISION 1
SYSTEM: SI/CV/CS	CODE CATEGORY: Augmented Stagnant Borated Lines (Note 10)	

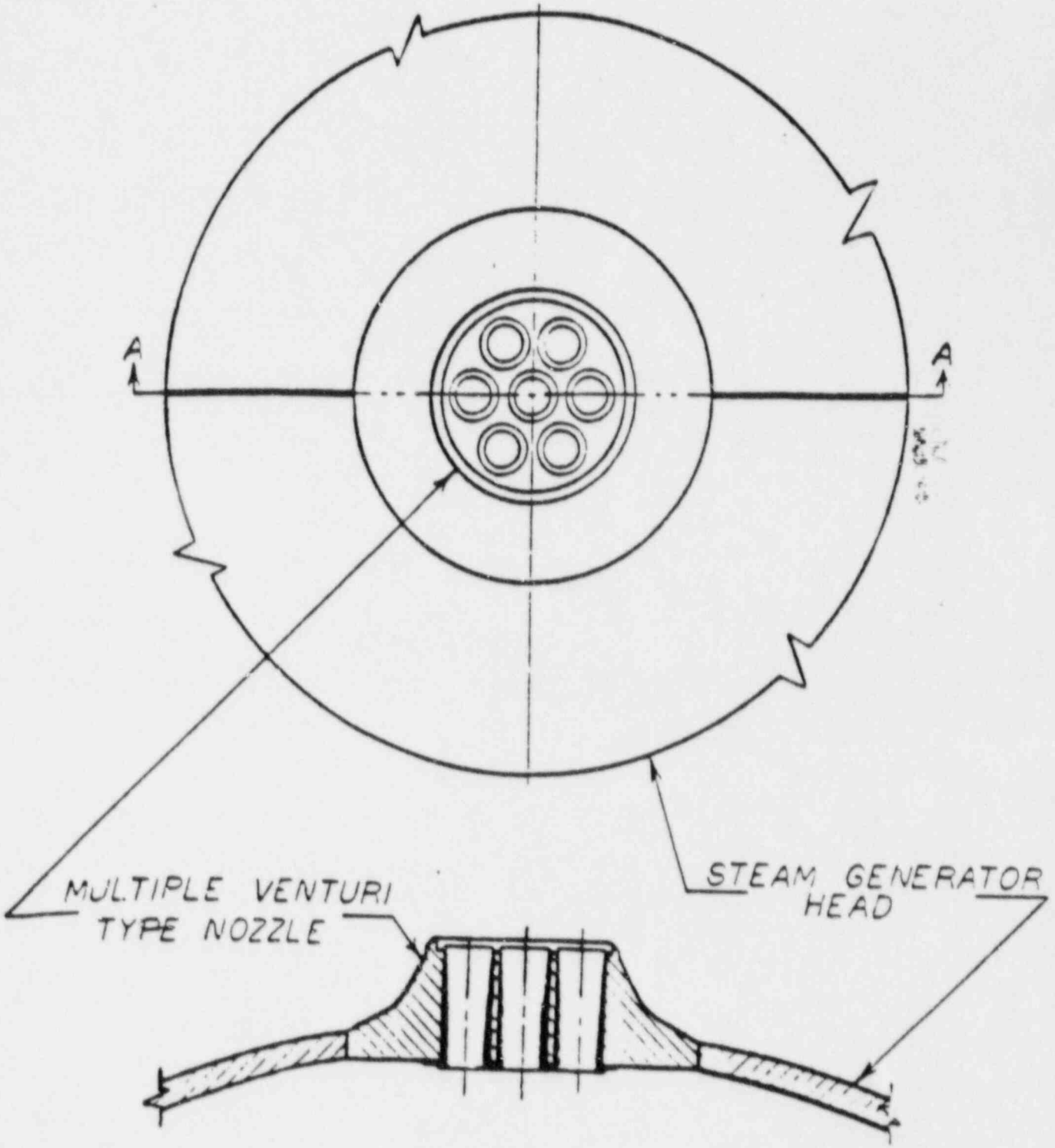
ITEM NO.	COMPONENT DESCRIPTION	DRAWING	ISI ID	EXAM METHOD VOL	EXAM METHOD SUR	EXAM METHOD VIS	ID SEL	PERIOD 1st	PERIOD 2nd	PERIOD 3rd	COMMENTS
											Welds to be selected during first refueling outage

2.3 NOTES

NOTE 1

Subsection IWC, Table 1WC-2500-1, Examination Category C-B, Item C2.22 requires volumetric examination of the nozzle inner radii of nozzles without reinforcing plate in vessels > 1/2 in. nominal thickness. The main steam nozzle was designed with an internal multiple venturi type flow restrictor with an equivalent throat diameter of 16 in. This design is used to limit the flow in the event of a postulated steam line break. Attachment 1 provides a sketch of the nozzle. This design does not utilize a radiused nozzle as described in Figures 1WC-2500-4(a) or 1WC-2500-4(b), and therefore is not considered subject to inner radii inspection. However, these nozzles will receive a system leakage test during each inspection period.

Note 1
Attachment 1



NOTE 2

Braidwood Unit #1 will incorporate Code Case N-419 which allows limiting the examinations required by Subsection IWB, Table IWB-2500-1, Examination Category B-G-1 to those components selected for examination under Examination Categories B-B, B-J, B-L-2 and B-M-2.

Pumps and valves shall be grouped in accordance with Examination Categories B-L-2 and B-M-2 as follows:

*1RC01PA	*1RC8001A
1RC01PB	1RC8002A
1RC01PC	1RC8001B
1RC01PD	1RC8002B
	1RC8001C
	1RC8002C
	1RC8001D
	1RC8002D

*Component selected for examination within group.

NOTE 3

Braidwood Unit #1 will incorporate Code Case N-426 which allows limiting the examinations required by Subsection IWB, Table IWB-2500-1, Examination Category B-G-2, to those components selected for examination under Examination Categories B-B, B-J, B-L-2, and B-M-2.

Pumps and valves shall be grouped in accordance with Examination Categories B-L-2 ad B-M-2 as follows:

*1RC01PA	*1RC8074A	*1RC8036A
1RC01PB	1RC8074B	1RC8036B
1RC01PC	1RC8074C	1RC8036C
1RC01PD	1RC8074D	1RC8036D
	1RC8073A	1RC8037A
*1CV8378A	1RC8073B	1RC8037B
1CV8378B	1RC8073C	1RC8037C
1CV8379A	1RC8073D	1RC8037D
1CV8379B		
	*1RC8003A	*1RY022
*1CV459	1RC8003B	1RY023
1CV460	1RC8003C	1RY024
	1RC8003D	1RY025
*1CV8145		
	*1RC8085	
*1RY455A	*1SI8808A	*1SI8841A
1RY456	1SI8808B	1SI8841B
	1SI8808C	
*1RY455B	1SI8808D	*1SI8948A
1RY455C		1SI8948B
	*1SI8810A	1SI8948C
*1RY8000-A	1SI8810B	1SI8948D
	1SI8810C	1SI8956A
*1RY8000-B	1SI8810D	1SI8956B
		1SI8956C
*1RY8010-A	*1SI8815	1SI8956D
1RY8010-B		
1RY8010-C	*1SI8818A	*1SI8949A
	1SI8818B	1SI8949B
*1RH8701A-1	1SI8818C	1SI8949C
1RH8701B-2	1SI8818D	1SI8949D
1RH8702B-2		
1RH8702A-1		

*Component selected for examination within group.

NOTE 4

Eddy Current Inspection of Steam Generator U-Tubes

Eddy Current Inspection of Steam Generator tubes is an effective means of determining defects because it detects the presence of defect-caused variations in effective electrical conductivity and/or magnetic permeability.

The Eddy Current Program Plan will attempt to maximize the detection of defects while complying with U.S. Nuclear Regulatory Commission Regulatory Guide 1.83, Revision 1, "Inservice Inspection of Pressurized Water Reactor Steam Generator Tubes", and Braidwood Unit 1 Technical Specification 3/4.4.5, "Steam Generators".

Eddy Current examination shall be performed in accordance with the requirements of Braidwood Technical Specification 3/4.4.5, "Steam Generators."

Braidwood Unit #1 will incorporate Code Case N-40[illegible] allows the use of digitially encoded eddy current data as an [illegible]native to magnetic tape and strip chart recordings.

NOTE 5

Augmented Examinations are to be performed on Class 2 and 3 High Energy Piping Systems Outside Containment where breaks have not been postulated. Volumetric examination of circumferential welds shall be performed on six inch and larger diameter piping in the Main Steam (MS) and Main Feedwater (FW) systems from the containment wall to the MS and FW torsional restraints downstream of the outboard containment isolation valves (within the valve room). A volumetric examination of longitudinal seam welds adjacent to circumferential welds shall be performed in accordance with ASME Section XI criteria. These augmented inspections meet the requirements of NUREG-1002 Section 6.6.

NOTE 6

The Augmented Reactor Coolant Pump Flywheel examination shall be conducted as follows:

1. In-place ultrasonic volumetric examination of the areas of higher stress concentration of the bore and key ways will be performed each 40 month period during refueling or maintenance shutdowns coinciding with the inservice inspection schedule as required by Section XI of the ASME Code.

2. A surface examination of all exposed surfaces and complete ultrasonic volumetric examination shall be performed whenever the flywheels are removed for maintenance purposes, but not more frequently than once each 10 year interval. Those inspections shall coincide with the inservice inspection schedule as required by Section XI of the ASME Code.

The requirements for examination procedures and acceptance criteria as described in the Regulatory Guide will be followed.

This inspection program meets the intent of Regulatory Guide 1.14 in assuring the continued integrity of the reactor coolant pump flywheels.

NOTE 7

In Section 5.2.4.4 of NUREG-1002, Supplement No. 1 dated September 1986, the Nuclear Regulatory Commission requested Braidwood Station to commit to augmented inservice inspections of the upper shell-to-transition cone weld (weld #6) of the loop 1 steam generator and the lower-to-upper intermediate circumferential shell weld (weld #3c) of the Unit 1 pressurizer. These two welds are those welds in which subsurface indications were found that exceeded the Section XI acceptance criteria. In the SER Supplement, the NRC has concluded that weld repair of the two flaws is not necessary if the following augmented inspections are completed.

1. The areas containing the flaws must be inspected in accordance with the inspection interval requirements of Section XI IWB-2420; that is, the subject areas are reexamined during the next three (3) inspection periods. If the reexaminations show that the indications remains essentially unchanged for these three (3) successive inspection periods, the examination schedule may revert to the original schedule.

2. The Loop 1 steam generator secondary side hydrotest and leak tests must be performed at temperatures greater than 165°F and 150°F, respectively.

3. The pressurizer primary side hydrotest and leak test must be performed at temperatures greater than 120°F.

NOTE 8

Augmented Inspecti(of Turbine Rotors and Turbine Disks.

Due to the possibility of missile generation from failure of steam turbine disks Braidwood Station plans to have augmented Non-Destructive Tests performed on the HP and LP turbine disks and rotors. Inspection techniques and frequency will be determined by Westinghouse Corporation with the turbines with the highest probability of failure being inspected during the first refueling outage and the remaining turbine disks and rotors to be inspected during the second refueling outage.

References:

Braidwood SER 3.5.1.3.4 NUREG-1002 Supp. No. 1 FSAR 10.2.3.6 Appendix C

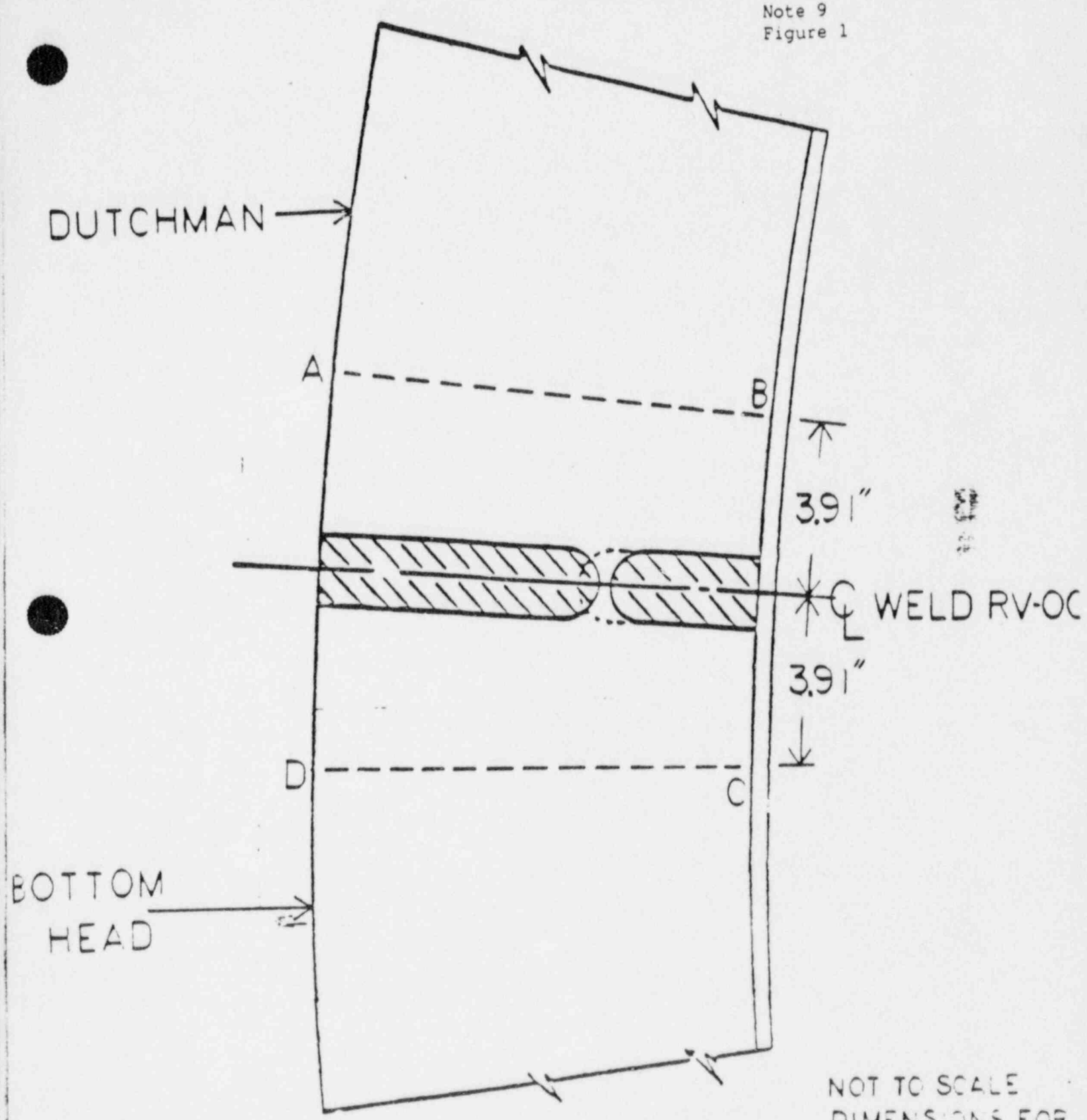
NOTE 9

Subsection IWB, Table IWB-2500-1, Examination Category B-A, Item B1.21 requires volumetric examination of the accessible portions of head circumferential welds in the reactor vessel. Listed below are the applicable welds and descriptions of their inaccessible portions.

a. Lower Disk-to-Dutchman weld RV-001, (1RV-02-001), Figure 1 has 58 instrument tubes which physically obstruct the search unit and/or search unit positioning device. Figures 2 and 3 give a detailed diagram of the areas inspected and those which were obstructed by the tubes. Note the dimensions used for the actual coverage are for transducer position.

b. Dutchman Forging-to-Closure Head Dome Weld RVCH-002 (1RV-03-002), has 6 lift lugs which physically obstruct the ultrasonic transducer from performing the required scan. Figures 4 and 5 show the position of the weld and lifting lugs. A detailed diagram of the transducer position for actual and required coverage is shown in Figure 6.

Note 9
Figure 1

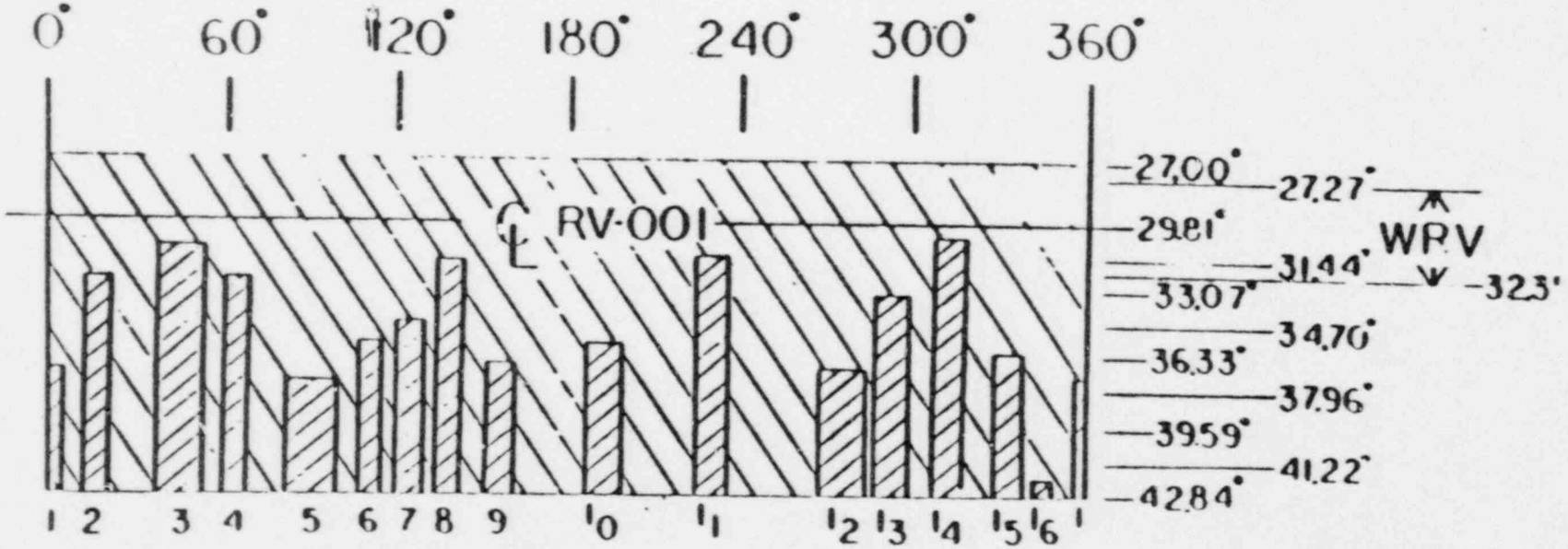


REQD. VOL A-B-C-D

OBSTRUCTIONS

AREA SCANNED

TRANSDUCERS SHOOTING UP AND RIGHT



OBSTRUCTIONS

NO	PIVOT	ROTATION	NO	PIVOT	ROTATION
1	5.75°	10°	9	5.75°	10°
2	10.56°	10°	10	7.00°	9°
3	12.00°	15°	11	11.05°	9°
4	10.56°	15°	12	5.75°	9°
5	5.29°	17°	13	10.07°	10°
6	7.00°	10°	14	11.52°	10°
7	6.24°	10°	15	7.00°	10°
8	11.52°	10°	16	.95°	9°

CONVERSION FACTORS

HORZ 100-150°

VERT 100-154°

Note 9
Figure 2

Revision 1

NOT TO SCALE
DIMENSIONS FOR
INFORMATION ONLY

1732m(041988)/13

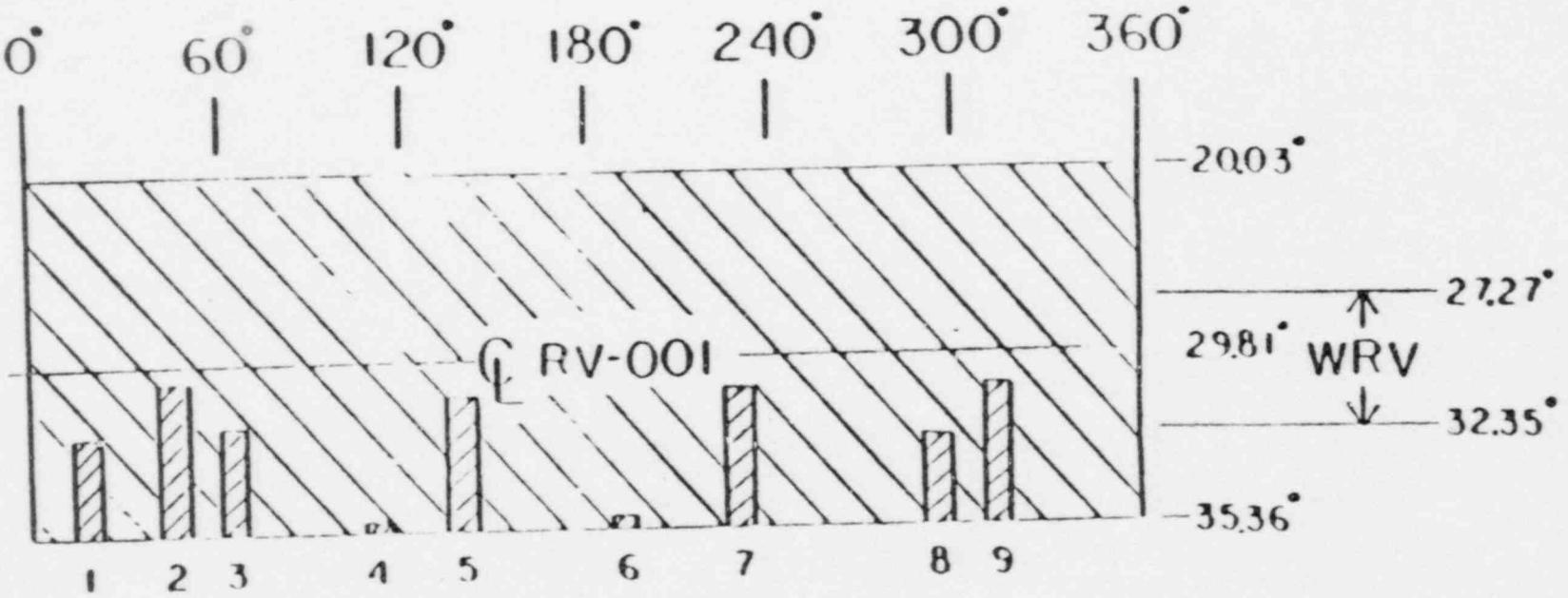
1732m(041988)/14

2-22

TRANSDUCERS SHOOTING DOWN AND LEFT

OBSTRUCTIONS

AREA SCANNED



OBSTRUCTIONS

NO	PIVOT	ROTATION
1	302°	7°
2	446°	8°
3	302°	8°
4	.63°	45°
5	397°	7°
6	.63°	4°
7	397°	8°
8	302°	8°
9	446°	7°

NOT TO SCALE
DIMENSIONS FOR
INFORMATION ONLY

CONVERSION FACTORS

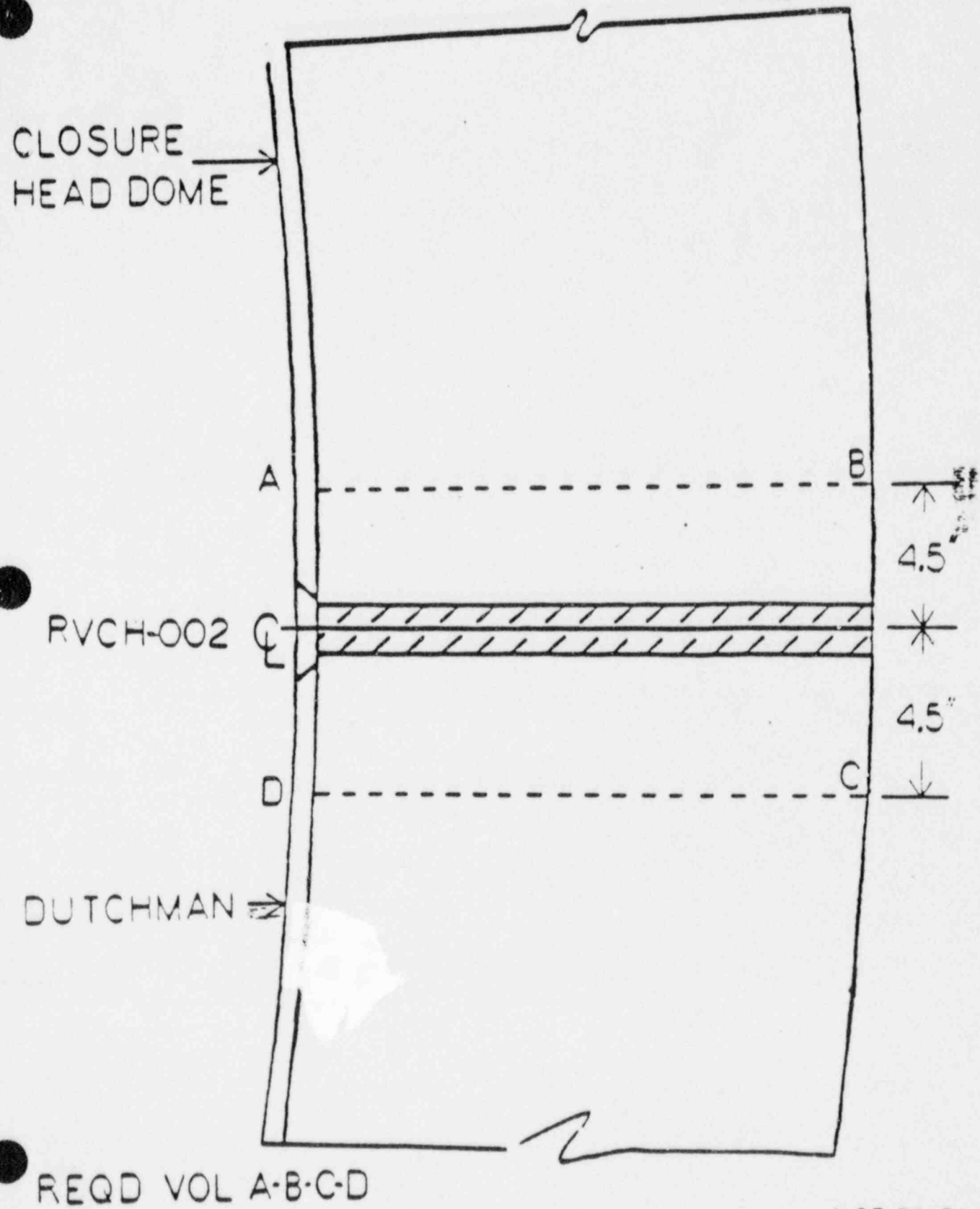
HORZ 100-150°

VERT 100-154°

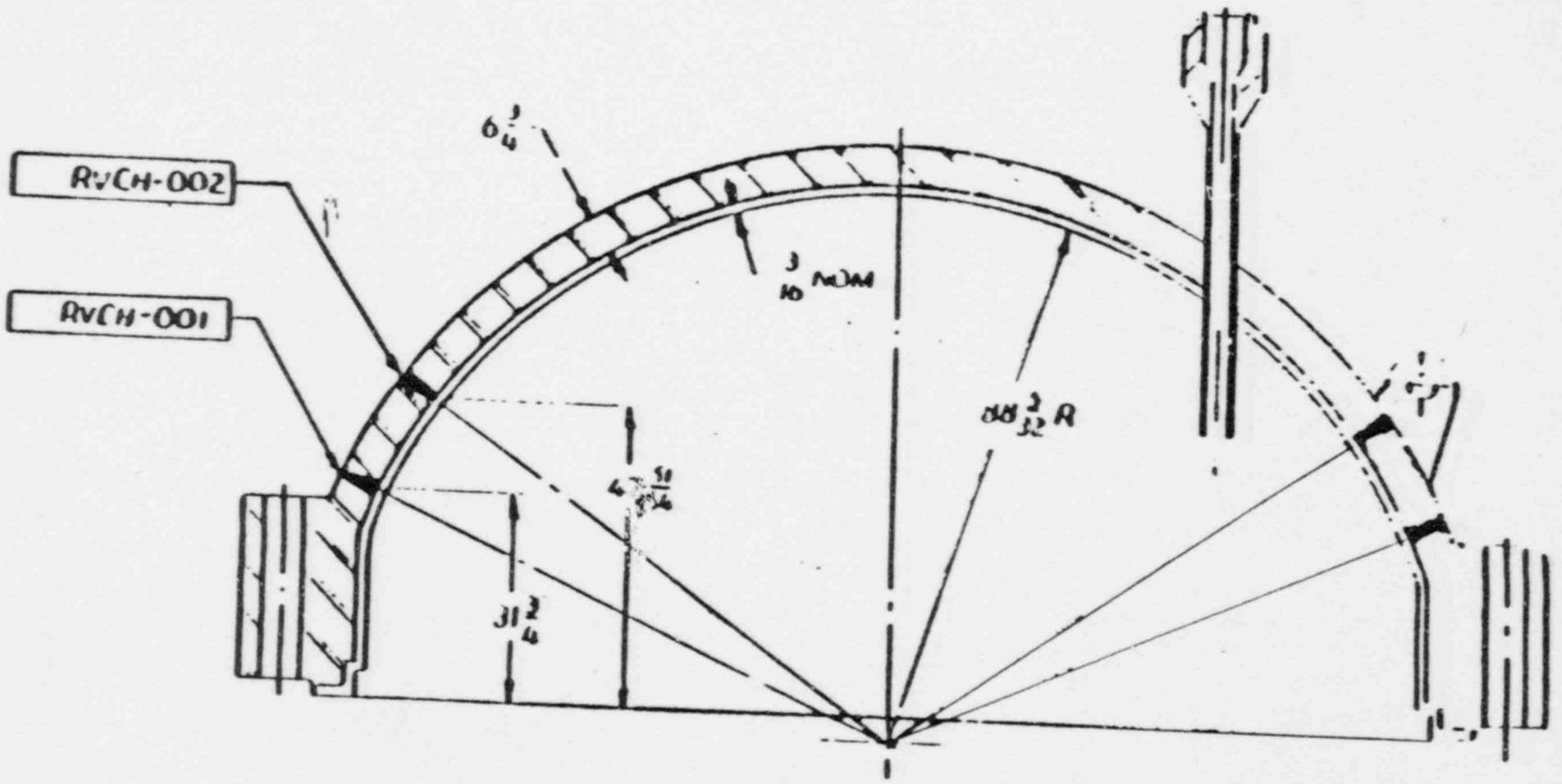
Note 9
Figure 3

Revision 1

Note 9
Figure 4



NOT TO SCALE
DIMENSIONS FOR
INFORMATION ONL

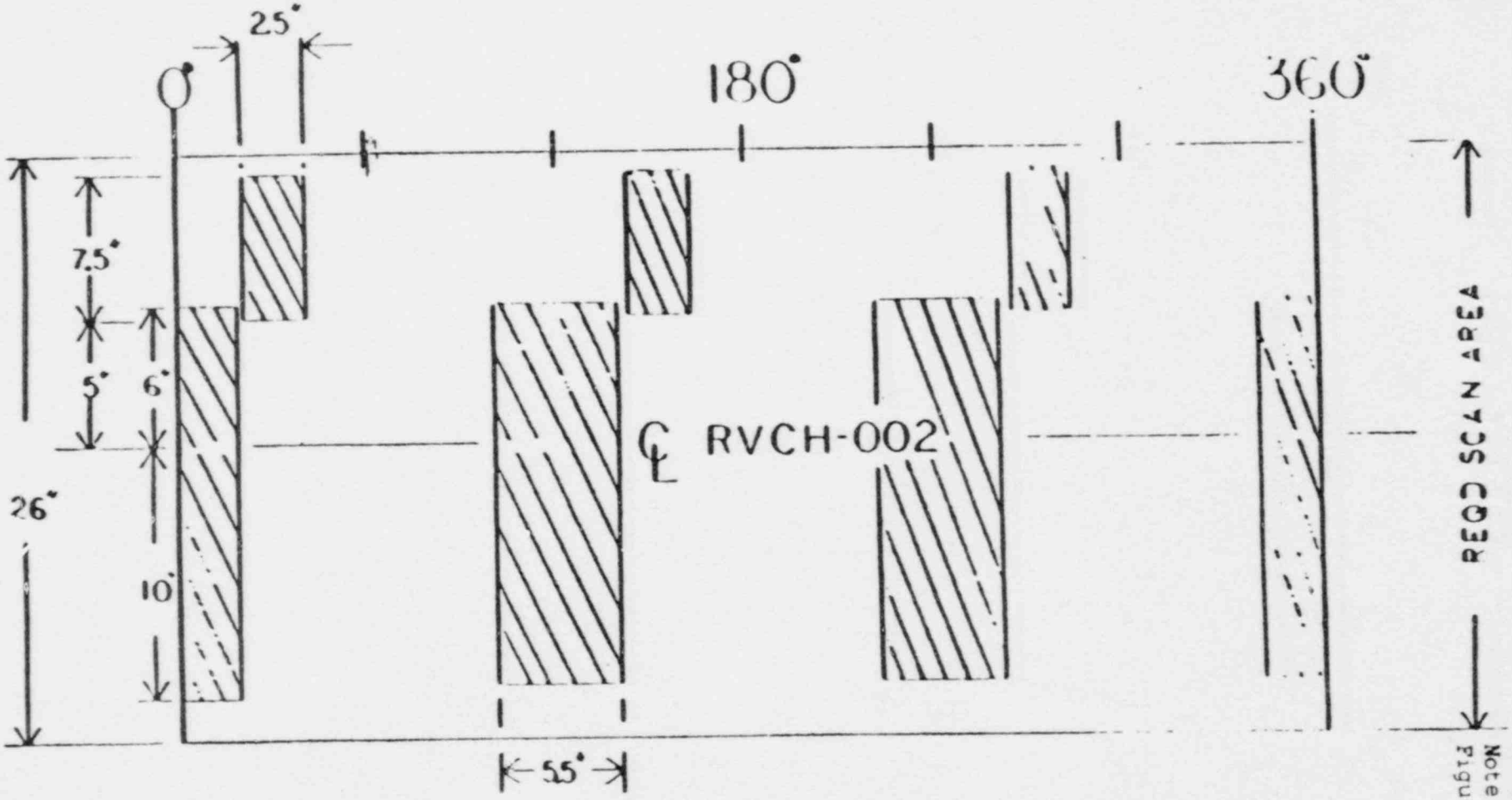


NOT TO SCALE
DIMENSIONS FOR
INFORMATION ONLY

Note 9
Figure 5

Revision 1

OBSTRUCTION



NOT TO SCALE
DIMENSIONS FOR
INFORMATION ONLY

Note 9
Figure 6

Revision 1

1732m(041988)17

2-2c

NOTE 10

The NRC has expressed a concern dealing with intergranular stress corrosion cracking in lines that contain stagnant borated water. Braidwood Unit 1 will perform augmented volumetric examinations on class two containment spray (C.S) welds. The inspection shall include seven and one-half percent (7.5%) sampling of the welds in a single train between the (C.S.) pump and the first weld beyond the isolation valve inside containment.

2.4

EXEMPT COMPONENTS

Exempt Components

The following tables list those systems/components which have been exempted from examination as specified in ASME Section XI, subarticles IWB-1220, IWC-1220 and IWD-1220. These tables contain the following information:

Page of : is the consecutive and total page numbers for these tables.

Revision: is the revision number of Section 2.0 of the Inservice Inspection and Testing Program. Note, if the Revision number is followed by a lower case alpha designator, this page has been revised but the overall Section was not.

Description: describes the type of component(s)/system(s) in that table, i.e., Exempt Class 1 Vessels.

System: refers to the component(s) and/or system(s) being addressed.

Component Description: is the equipment part number or line number being exempted. Note, when the word "All" appears, the entire portion of the system being addressed under "Description" shall be considered exempt.

Exemption: identifies the exemption from ASME Section XI which is being applied to the component/system. All exemptions shall be from the 1983 Edition through the Summer 1983 addenda except when preceeded by an asterick (*) which is used to identify the 1974 Edition through the Summer 1975 Addenda. If more than one exemption applies to a specific component or system, all exemptions may appear. The following is a list of exemptions applied:

IWB-1220(b): piping of 1 in. nominal pipe size and smaller except for Steam Generator tubing; components and their connections in piping of 1 in. nominal pipe size and smaller.

IWB-1220(c): reactor vessel head connections and associated piping 2 in. nominal pipe size and smaller, made inaccessible by control rod drive penetrations.

IWC-1220(a): components of systems or portions of systems that during normal plant operating conditions are not required to operate or perform a system function but remain flooded under static conditions at a pressure of a least 80% of the pressure that the component or system will be subjected to when required to operate.

IWC-1220(b): components of systems or portions of systems, other than Residual Heat Removal Systems and Emergency Core Cooling Systems, that are not required to operate above a pressure of 275 psig or above a temperature of 200°F.

IWC-1220(c): component connections (including nozzles in vessels and pumps) piping and associated valves, and vessels and their attachments that are 4 in nominal pipe size and smaller.

IWD-A,B,C: Integral attachments of supports and restraints to components that are 4 in. nominal pipe size and smaller within the system boundaries of Examination Categories D-A, D-B, and D-C of Table IWD-2500-1 shall be exempt from the visual examination VT-3, except for PWR Auxiliary Feedwater Systems.

Integral attachments of supports and restraints to components exceeding 4 in. nominal pipe size may be exempted from visual examination VT-3 of Table IWD-2500-1 provided:

(a) the components are located in systems (or portions of systems) whose function is not required in support of reactor residual heat removal, containment heat removal, and emergency core cooling:

(b) the components operate at a pressure of 275 psig or less and at a temperature of 200°F or less.

*IWC-1220(a): components in systems where both the design pressure and temperature are equal to or less than 275 psig and 200°F, respectively.

*IWC-1220(d): component connections, piping, and associated valves and vessels (and their supports), that are 4 in. nominal pipe size and smaller.

Justification: identifies the technical justification for exempting the component/system.

All components listed herein will receive the required system leakage test as specified in the appropriate table.

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Commonwealth
Edison

Unit 1

Description: Exempt Class 1 Piping — CLASS 1 — REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CVA3C-1.0	IWB-1220(b)	
	1CVA3DA-1.0	IWB-1220(b)	
	1CVA3DB-1.0	IWB-1220(b)	
	1CV15AA-0.75	IWB-1220(b)	
	1CV15AB-0.75	IWB-1220(b)	
	1CV15AC-0.75	IWB-1220(b)	
	1CV15AD-0.75	IWB-1220(b)	
	1CV46AA-0.75	IWB-1220(b)	
	1CV46AB-0.75	IWB-1220(b)	
	1CV46AC-0.75	IWB-1220(b)	
	1CV46AD-0.75	IWB-1220(b)	
Reactor Coolant	1RC08AA-0.75	IWB-1220(b)	
	1RC08AB-0.75	IWB-1220(b)	
	1RC08AC-0.75	IWB-1220(b)	
	1RC08AD-0.75	IWB-1220(b)	
	1RC09AA-1.0	IWB-1220(b)	
	1RC09AB-1.0	IWB-1220(b)	
	1RC09AC-1.0	IWB-1220(b)	
	1RC09AD-1.0	IWB-1220(b)	
	1RC09AE-1.0	IWB-1220(b)	
	1RC09AF-1.0	IWB-1220(b)	
	1RC09AG-1.0	IWB-1220(b)	
	1RC09AH-1.0	IWB-1220(b)	
	1RC10AA-1.0	IWB-1220(b)	
	1RC10AB-1.0	IWB-1220(b)	
	1RC10AC-1.0	IWB-1220(b)	
	1RC10AD-1.0	IWB-1220(b)	
	1RC11BA-0.75	IWB-1220(b)	
	1RC11BB-0.75	IWB-1220(b)	
	1RC11BC-0.75	IWB-1220(b)	
	1RC11BD-0.75	IWB-1220(b)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Commonwealth
Edison

Unit 1

Description: Exempt Class 1 Piping CLASS 1 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Reactor Coolant	1RC12BA-0.75	IWB-1220(b)	
	1RC12BB-0.75	IWB-1220(b)	
	1RC12BC-0.75	IWB-1220(b)	
	1RC12BD-0.75	IWB-1220(b)	
	1RC18BA-0.75	IWB-1220(b)	
	1RC18BB-0.75	IWB-1220(b)	
	1RC18BC-0.75	IWB-1220(b)	
	1RC18BD-0.75	IWB-1220(b)	
	1RC19BA-0.75	IWB-1220(b)	
	1RC19BB-0.75	IWB-1220(b)	
	1RC19BC-0.75	IWB-1220(b)	
	1RC19BD-0.75	IWB-1220(b)	
	1RC20AA-0.75	IWB-1220(b)	
	1RC20AB-0.75	IWB-1220(b)	
	1RC20AC-0.75	IWB-1220(b)	
	1RC20AD-0.75	IWB-1220(b)	
	1RC23AA-0.75	IWB-1220(b)	
	1RC23AB-0.75	IWB-1220(b)	
	1RC23AC-0.75	IWB-1220(b)	
	1RC23AD-0.75	IWB-1220(b)	
	1RC31A-1.0	IWB-1220(b)	
	1RC31DA-1.0	IWB-1220(b)	
	1RC31DB-1.0	IWB-1220(b)	
	1RC31EA-0.5	IWB-1220(b)	
	1RC31EB-0.5	IWB-1220(b)	
	1RC47AA-0.75	IWB-1220(b)	
	1RC47BA-0.75	IWB-1220(b)	
	1RC47CA-0.75	IWB-1220(b)	
	1RC47DA-0.75	IWB-1220(b)	
	1RC52A-0.75	IWB-1220(b)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Commonwealth
Edison

Unit 1

Description: Exempt Class 1 Piping CLASS 1 REV. 1

SYSTEM	COMPONENT	EXEMPTION			REMARKS
Residual Heat Removal	1RH25AA-0.75		IWB-1220(b)		
	1RH25AB-0.75		IWB-1220(b)		
Pressurizer System	1RY94A-0.75		IWB-1220(b)		
	1RY954-0.75		IWB-1220(b)		

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 1 Piping & Valves CLASS 1 REV. 1

SYSTEM	COMPONENT	EXEMPTION			REMARKS
	Pumps				There are no exempt Class 1 Pumps.
CV RC RH	Valves		IWB-1220(b)		Valves on exempt, Class 1 piping.

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Commonwealth
Edison

Unit 1

Description: Exempt Class 2 Vessels | CLASS 2 | REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Containment Spray	1CS-01-SA	IWC-1220(b)	Spray Eductors
	1CS-01-SB	IWC-1220(b)	Spray Eductors
	1CS-01-T	IWC-1220(b)	Spray Additive Tank
Chemicaland Volume Control	1CV-01-FA	IWC-1220(b), (c)	Seal Water Injection Filter
	1CV-01-FB	IWC-1220(b), (c)	Seal Water Injection Filter
	1CV-02-A	IWC-1220(b)	Seal Water Heat Exchanger
Safety Injection	1SI-01-T	IWC-1220(b)	Refueling Water Storage Tank Accumulator Tanks
	1SI-04-TA	IWC-1220(a)	Refueling Water Storage Tank Accumulator Tanks
	1SI-04-TB	IWC-1220(a)	Refueling Water Storage Tank Accumulator Tanks
	1SI-04-TC	IWC-1220(a)	Refueling Water Storage Tank Accumulator Tanks
	1SI-04-TD	IWC-1220(a)	Refueling Water Storage Tank Accumulator Tanks

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Commonwealth
Edison

Unit 1

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Auxiliary Feedwater	All	IWC-1220(c)	
Boron Thermal Regeneration	All	IWC-1220(c)	
Component Cooling	All	IWC-1220(b)	
Containment Spray	All	IWC-1220 (a), (d) (1975)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT		EXEMPTION		REMARKS
Chemical and Volume Control	1CVA1A-6.0		IWC-1220(b)		
	1CVA3EA-1.0		IWC-1220(c)		
	1CVA3EB-1.0		IWC-1220(c)		
	1CVA3FB-2.0		IWC-1220(c)		
	1CVA4AA-1.0		IWC-1220(b), (c)		
	1CVA4AB-1.0		IWC-1220(b), (c)		
	1CVA4B-1.0		IWC-1220(b), (c)		
	1CVA4C-1.0		IWC-1220(b), (c)		
	1CVA8B-0.75		IWC-1220(b), (c)		
	1CVA9A-1.0		IWC-1220(b), (c)		
	1CVB5A-0.75		IWC-1220(c)		
	1CVB6CA-1.0		IWC-1220(b), (c)		
	1CVB6CB-1.0		IWC-1220(b), (c)		
	1CVB6D-1.0		IWC-1220(b), (c)		
	1CVB7BA-3.0		IWC-1220(c)		
	1CVB7BB-3.0		IWC-1220(c)		
	1CVC2AA-0.75		IWC-1220(c)		
	1CVC2BA-0.75		IWC-1220(c)		
	1CVC2CA-0.75		IWC-1220(c)		
	1CVC2DA-0.75		IWC-1220(c)		
	1CVC2EA-0.75		IWC-1220(c)		
	1CVC2FA-0.75		IWC-1220(c)		
	1CVC2GA-0.75		IWC-1220(c)		
	1CVC2HA-0.75		IWC-1220(c)		
	1CVC5AC-0.75		IWC-1220(b), (c)		
	1CVC5BC-0.75		IWC-1220(b), (c)		
	1CVC5CC-0.75		IWC-1220(b), (c)		
	1CVC5DC-0.75		IWC-1220(b), (c)		
	1CVC5EC-0.75		IWC-1220(b), (c)		
	1CVC5FC-0.75		IWC-1220(b), (c)		
	1CVC5GC-0.75		IWC-1220(b), (c)		

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping | CLASS 2 | REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CVC5HC-0.75	IWC-1220(b), (c)	
	1CVC9AA-0.75	IWC-1220(b), (c)	
	1CVD1AA-0.75	IWC-1220(b), (c)	
	1CVD2AA-0.75	IWC-1220(b), (c)	
	1CVD2BA-0.75	IWC-1220(b), (c)	
	1CVD4AA-2.0	IWC-1220(b), (c)	
	1CVD4AB-2.0	IWC-1220(b), (c)	
	1CVD4AC-2.0	IWC-1220(b), (c)	
	1CVD4BA-2.0	IWC-1220(b), (c)	
	1CVD4BB-2.0	IWC-1220(b), (c)	
	1CVD4BC-2.0	IWC-1220(b), (c)	
	1CVD5AA-0.75	IWC-1220(b), (c)	
	1CVD6AA-0.75	IWC-1220(b), (c)	
	1CVD7AA-0.75	IWC-1220(b), (c)	
	1CVD7BA-0.75	IWC-1220(b), (c)	
	1CVE3AA-0.75	IWC-1220(b), (c)	
	1CVE6AA-0.75	IWC-1220(b), (c)	
	1CVE6AB-0.75	IWC-1220(b), (c)	
	1CVE6AC-0.75	IWC-1220(b), (c)	
	1CVE6AD-0.75	IWC-1220(b), (c)	
	1CVE7AA-0.75	IWC-1220(b), (c)	
	1CVE7AB-0.75	IWC-1220(b), (c)	
	1CVE7AC-0.75	IWC-1220(b), (c)	
	1CVE7AD-0.75	IWC-1220(b), (c)	
	1CVE8A-0.75	IWC-1220(b), (c)	
	1CVE9A-0.75	IWC-1220(b), (c)	
	1CVF1A-0.75	IWC-1220(b), (c)	
	1CVF2A-0.75	IWC-1220(b), (c)	
	1CVF3A-0.75	IWC-1220(b), (c)	
	1CVF4A-0.75	IWC-1220(b), (c)	
	1CVF6AA-0.75	IWC-1220(b), (c)	
	1CVF6BA-0.75	IWC-1220(b), (c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping | CLASS 2 | REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CVF7AA-0.75	IWC-1220(b), (c)	
	1CVF8AA-2.0	IWC-1220(b), (c)	
	1CVG1AA-2.0	IWC-1220(c)	
	1CVG1AB-2.0	IWC-1220(c)	
	1CVG2A-0.75	IWC-1220(b), (c)	
	1CVG3C-0.75	IWC-1220(b), (c)	
	1CVG4AA-0.75	IWC-1220(b), (c)	
	1CVG4BA-0.75	IWC-1220(b), (c)	
	1CVG4CA-0.75	IWC-1220(b), (c)	
	1CVG4DA-0.75	IWC-1220(b), (c)	
	1CVG5AA-0.75	IWC-1220(b), (c)	
	1CVG5AB-0.75	IWC-1220(b), (c)	
	1CVG5AC-0.75	IWC-1220(b), (c)	
	1CVG5AD-0.75	IWC-1220(b), (c)	
	1CVG6AA-0.75	IWC-1220(c)	
	1CVG6AB-0.75	IWC-1220(c)	
	1CVG6AC-0.75	IWC-1220(c)	
	1CVG6AD-0.75	IWC-1220(c)	
	1CVG7A-0.75	IWC-1220(b), (c)	
	1CVG8AA-1.0	IWC-1220(b), (c)	
	1CVG8AB-1.0	IWC-1220(b), (c)	
	1CVH3AA-0.75	IWC-1220(c)	
	1CVH3AB-0.75	IWC-1220(c)	
	1CVH3AC-0.75	IWC-1220(c)	
	1CVH3AD-0.75	IWC-1220(c)	
	1CVH4AA-0.75	IWC-1220(c)	
	1CVH4AB-0.75	IWC-1220(c)	
	1CVH4AC-0.75	IWC-1220(c)	
	1CVH4AD-0.75	IWC-1220(c)	
	1CVH5AA-0.75	IWC-1220(c)	
	1CVH5AB-0.75	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CVH7AA-0.75	IWC-1220(c)	
	1CVH7AB-0.75	IWC-1220(c)	
	1CVH7AC-0.75	IWC-1220(c)	
	1CVH7AD-0.75	IWC-1220(c)	
	1CVH8A-2.0	IWC-1220(c)	
	1CVJ3A-3.0	IWC-1220(b), (c)	
	1CVJ4A-4.0	IWC-1220(b), (c)	
	1CVJ5A-0.75	IWC-1220(b), (c)	
	1CVJ6A-3.0	IWC-1220(b), (c)	
	1CVJ7A-3.0	IWC-1220(b), (c)	
	1CVJ8AA-0.75	IWC-1220(c)	
	1CVJ8AB-0.75	IWC-1220(c)	
	1CVJ8AC-0.75	IWC-1220(c)	
	1CVJ8AD-0.75	IWC-1220(c)	
	1CVK3A-0.75	IWC-1220(b), (c)	
	1CVK4A-1.0	IWC-1220(b), (c)	
	1CVK5A-2.0	IWC-1220(b), (c)	
	1CVK8A-0.75	IWC-1220(c)	
	1CVK9A-0.75	IWC-1220(b), (c)	
	1CVL1A-0.75	IWC-1220(b), (c)	
	1CVL3A-0.375	IWC-1220(b), (c)	
	1CVL5AA-0.75	IWC-1220(b), (c)	
	1CVL6A-0.375	IWC-1220(b), (c)	
	1CVL7AA-0.75	IWC-1220(b), (c)	
	1CVL8AA-0.75	IWC-1220(b), (c)	
	1CVL8AB-0.75	IWC-1220(b), (c)	
	1CVL8AC-0.75	IWC-1220(b), (c)	
	1CVL8AD-0.75	IWC-1220(b), (c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CVL9A-0.75	IWC-1220(b), (c)	
	1CVM1A-0.75	IWC-1220(b), (c)	
	1CVM2A-0.75	IWC-1220(b), (c)	
	1CVM4A-0.75	IWC-1220(c)	
	1CVM5A-0.75	IWC-1220(c)	
	1CV01AA-3.0	IWC-1220(c)	
	1CV01AB-3.0	IWC-1220(c)	
	1CV01CA-3.0	IWC-1220(c)	
	1CV01CB-3.0	IWC-1220(c)	
	1CV01CC-3.0	IWC-1220(c)	
	1CV01DA-3.0	IWC-1220(c)	
	1CV01DB-3.0	IWC-1220(c)	
	1CV01DC-3.0	IWC-1220(c)	
	1CV01E-3.0	IWC-1220(c)	
	1CV01FA-3.0	IWC-1220(c)	
	1CV01FB-3.0	IWC-1220(c)	
	1CV01G-3.0	IWC-1220(c)	
	1CV02AA-3.0	IWC-1220(b), (c)	
	1CV02AB-3.0	IWC-1220(b), (c)	
	1CV02B-3.0	IWC-1220(b), (c)	
	1CV02C-2.0	IWC-1220(b), (c)	
	1CV02D-2.0	IWC-1220(b), (c)	
	1CV02E-3.0	IWC-1220(b), (c)	
	1CV02F-2.0	IWC-1220(b), (c)	
	1CV02G-2.0	IWC-1220(b), (c)	
	1CV03C-3.0	IWC-1220(b), (c)	
	1CV04B-3.0	IWC-1220(b), (c)	
	1CV05A-4.0	IWC-1220(b), (c)	
	1CV05B-8.0	IWC-1220(b)	
	1CV05CA-6.0	IWC-1220(b)	
	1CV05CB-6.0	IWC-1220(b)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CV06A-1.0	IWC-1220(b), (c)	
	1CV06B-2.0	IWC-1220(b), (c)	
	1CV06C-2.0	IWC-1220(b), (c)	
	1CV07A-3.0	IWC-1220(b), (c)	
	1CV08AA-4.0	IWC-1220(b), (c)	
	1CV08AB-4.0	IWC-1220(b), (c)	
	1CV09A-4.0	IWC-1220(b), (c)	
	1CV09D-3.0	IWC-1220(b), (c)	
	1CV09E-3.0	IWC-1220(b), (c)	
	1CV09FA-3.0	IWC-1220(b), (c)	
	1CV09FB-3.0	IWC-1220(b), (c)	
	1CV10AA-3.0	IWC-1220(c)	
	1CV10AB-3.0	IWC-1220(c)	
	1CV10B-3.0	IWC-1220(c)	
	1CV10CA-3.0	IWC-1220(c)	
	1CV10CB-3.0	IWC-1220(c)	
	1CV12AA-3.0	IWC-1220(b), (c)	
	1CV12AB-3.0	IWC-1220(b), (c)	
	1CV12B-3.0	IWC-1220(b), (c)	
	1CV13AA-2.0	IWC-1220(b), (c)	
	1CV13AB-2.0	IWC-1220(b), (c)	
	1CV13B-3.0	IWC-1220(b), (c)	
	1CV14AA-2.0	IWC-1220(b), (c)	
	1CV14AB-2.0	IWC-1220(b), (c)	
	1CV14B-3.0	IWC-1220(b), (c)	
	1CV14CA-2.0	IWC-1220(b), (c)	
	1CV14CB-2.0	IWC-1220(b), (c)	
	1CV14CC-2.0	IWC-1220(b), (c)	
	1CV14CD-2.0	IWC-1220(b), (c)	
	1CV14DA-1.0	IWC-1220(b), (c)	
	1CV14DB-1.0	IWC-1220(b), (c)	
	1CV14DC-1.0	IWC-1220(b), (c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping — CLASS 2 — REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CV14DD-1.0	IWC-1220(b), (c)	
	1CV14EA-2.0	IWC-1220(b), (c)	
	1CV14EB-2.0	IWC-1220(b), (c)	
	1CV14EC-2.0	IWC-1220(b), (c)	
	1CV14ED-2.0	IWC-1220(b), (c)	
	1CV15BA-0.75	IWC-1220(c)	
	1CV15BB-0.75	IWC-1220(c)	
	1CV15BC-0.75	IWC-1220(c)	
	1CV15BD-0.75	IWC-1220(c)	
	1CV15CA-2.0	IWC-1220(c)	
	1CV15CB-2.0	IWC-1220(c)	
	1CV15CC-2.0	IWC-1220(c)	
	1CV15CD-2.0	IWC-1220(c)	
	1CV15DA-0.75	IWC-1220(c)	
	1CV15DB-0.75	IWC-1220(c)	
	1CV15DC-0.75	IWC-1220(c)	
	1CV15DD-0.75	IWC-1220(c)	
	1CV15E-0.75	IWC-1220(c)	
	1CV15F-0.75	IWC-1220(b), (c)	
	1CV16B-0.75	IWC-1220(b), (c)	
	1CV16BA-0.75	IWC-1220(c)	
	1CV16BB-0.75	IWC-1220(c)	
	1CV16BC-0.75	IWC-1220(c)	
	1CV16BD-0.75	IWC-1220(c)	
	1CV16CA-0.75	IWC-1220(b), (c)	
	1CV16CB-0.75	IWC-1220(b), (c)	
	1CV16CC-0.75	IWC-1220(b), (c)	
	1CV16CD-0.75	IWC-1220(b), (c)	
	1CV16DA-1.50	IWC-1220(b), (c)	
	1CV16DB-1.50	IWC-1220(b), (c)	
	1CV16DC-1.50	IWC-1220(b), (c)	
	1CV16DD-1.50	IWC-1220(b), (c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping — CLASS 2 — REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CV16EA-0.75	IWC-1220(b), (c)	
	1CV16EB-0.75	IWC-1220(b), (c)	
	1CV16EC-0.75	IWC-1220(b), (c)	
	1CV16ED-0.75	IWC-1220(b), (c)	
	1CV16F-2.0	IWC-1220(b), (c)	
	1CV16H-3.0	IWC-1220(b), (c)	
	1CV16J-2.0	IWC-1220(b), (c)	
	1CV17B-2.0	IWC-1220(b), (c)	
	1CV17C-3.0	IWC-1220(b), (c)	
	1CV18A-3.0	IWC-1220(b), (c)	
	1CV18B-4.0	IWC-1220(b), (c)	
	1CV19A-3.0	IWC-1220(c)	
	1CV20A-2.0	IWC-1220(b), (c)	
	1CV20B-3.0	IWC-1220(b), (c)	
	1CV21A-0.75	IWC-1220(b), (c)	
	1CV22A-3.0	IWC-1220(b), (c)	
	1CV26A-0.75	IWC-1220(b), (c)	
	1CV27A-3.0	IWC-1220(b), (c)	
	1CV28AA-0.75	IWC-1220(b), (c)	
	1CV29AA-0.75	IWC-1220(b), (c)	
	1CV31A-1.0	IWC-1220(b), (c)	
	1CV32A-0.75	IWC-1220(b), (c)	
	1CV33A-0.75	IWC-1220(b), (c)	
	1CV34A-0.75	IWC-1220(b), (c)	
	1CV35AA-0.75	IWC-1220(b), (c)	
	1CV35AB-0.50	IWC-1220(b), (c)	
	1CV36A-0.75	IWC-1220(b), (c)	
	1CV37A-0.75	IWC-1220(b), (c)	
	1CV37B-2.0	IWC-1220(b), (c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Commonwealth
Edison

Unit 1

Description: Exempt Class 2 Piping CLASS 1 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CV38AA-0.75	IWC-1220(b), (c)	
	1CV38AB-0.50	IWC-1220(b), (c)	
	1CV39AA-0.75	IWC-1220(b), (c)	
	1CV39AB-0.75	IWC-1220(b), (c)	
	1CV40AA-0.75	IWC-1220(b), (c)	
	1CV40BA-0.75	IWC-1220(b), (c)	
	1CV41AA-0.75	IWC-1220(b), (c)	
	1CV41BA-0.75	IWC-1220(b), (c)	
	1CV42AA-2.0	IWC-1220(b), (c)	
	1CV42AB-2.0	IWC-1220(b), (c)	
	1CV42BA-3.0	IWC-1220(b), (c)	
	1CV42BB-3.0	IWC-1220(b), (c)	
	1CV42CA-2.0	IWC-1220(b), (c)	
	1CV42CB-2.0	IWC-1220(b), (c)	
	1CV42D-2.0	IWC-1220(b), (c)	
	1CV42E-2.0	IWC-1220(b), (c)	
	1CV43A-2.0	IWC-1220(b), (c)	
	1CV43BA-2.0	IWC-1220(b), (c)	
	1CV43BB-2.0	IWC-1220(b), (c)	
	1CV43BC-2.0	IWC-1220(b), (c)	
	1CV43BD-2.0	IWC-1220(b), (c)	
	1CV44AA-0.75	IWC-1220(c)	
	1CV44AB-2.0	IWC-1220(c)	
	1CV45A-2.0	IWC-1220(c)	
	1CV47AA-0.75	IWC-1220(c)	
	1CV47AB-0.75	IWC-1220(c)	
	1CV47AC-0.75	IWC-1220(c)	
	1CV47AD-0.75	IWC-1220(c)	
	1CV48AA-0.75	IWC-1220(c)	
	1CV48AB-0.75	IWC-1220(c)	
	1CV48AC-0.75	IWC-1220(c)	
	1CV48AD-0.75	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CV49A-2.0	IWC-1220(b), (c)	
	1CV50AA-0.75	IWC-1220(b), (c)	
	1CV51AA-0.75	IWC-1220(b), (c)	
	1CV52A-2.0	IWC-1220(b), (c)	
	1CV52B-3.0	IWC-1220(b), (c)	
	1CV53A-3.0	IWC-1220(b), (c)	
	1CV54A-3.0	IWC-1220(b), (c)	
	1CV55A-4.0	IWC-1220(b), (c)	
	1CV63A-0.75	IWC-1220(b), (c)	
	1CV64A-0.75	IWC-1220(b), (c)	
	1CV66A-0.75	IWC-1220(b), (c)	
	1CV67A-3.0	IWC-1220(b), (c)	
	1CV68A-0.75	IWC-1220(b), (c)	
	1CV68B-0.375	IWC-1220(b), (c)	
	1CV69A-0.75	IWC-1220(b), (c)	
	1CV70A-0.75	IWC-1220(b), (c)	
	1CV72AA-0.75	IWC-1220(b), (c)	
	1CV72AB-0.75	IWC-1220(b), (c)	
	1CV73AA-0.75	IWC-1220(b), (c)	
	1CV73AB-0.75	IWC-1220(b), (c)	
	1CV77A-0.75	IWC-1220(b), (c)	
	1CV78A-0.75	IWC-1220(b), (c)	
	1CV79A-2.0	IWC-1220(c)	
	1CV80A-3.0	IWC-1220(c)	
	1CV81A-2.0	IWC-1220(b), (c)	
	1CV82B-1.0	IWC-1220(b), (c)	
	1CV84B-2.0	IWC-1220(b), (c)	
	1CV88A-0.75	IWC-1220(b), (c)	
	1CV89B-2.0	IWC-1220(b), (c)	
	1CV90B-1.0	IWC-1220(b), (c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Chemical and Volume Control	1CV94B-2.0	IWC-1220(b), (c)	
	1CV98A-8.0	IWC-1220(b)	
	1CV98BA-8.0	IWC-1220(b)	
	1CV98BB-8.0	IWC-1220(b)	
	1CV98C-8.0	IWC-1220(b)	
	1CV99A-8.0	IWC-1220(b)	
Fuel Pool Cleanup	All	IWC-1220(b), (c)	
Fire Protection	All	IWC-1220(b), (c)	
Main Feedwater	1FW06AA-4.0	IWC-1220(c)	
	1FW06AB-4.0	IWC-1220(c)	
	1FW06AC-4.0	IWC-1220(c)	
	1FW06AD-4.0	IWC-1220(c)	
	1FW07AA-0.75	IWC-1220(c)	
	1FW07AB-0.75	IWC-1220(c)	
	1FW07AC-0.75	IWC-1220(c)	
	1FW07AD-0.75	IWC-1220(c)	
	1FW13AA-0.50	IWC-1220(c)	
	1FW13BA-0.50	IWC-1220(c)	
	1FW13CA-0.50	IWC-1220(c)	
	1FW13DA-0.50	IWC-1220(c)	
	1FW13EA-0.75	IWC-1220(c)	
	1FW13FA-0.75	IWC-1220(c)	
	1FW13GA-0.75	IWC-1220(c)	
	1FW13HA-0.75	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Main Feedwater	1FW13JA-0.75	IWC-1220(c)	
	1FW13KA-0.75	IWC-1220(c)	
	1FW13LA-0.75	IWC-1220(c)	
	1FW13MA-0.75	IWC-1220(c)	
	1FW14AA-0.50	IWC-1220(c)	
	1FW14BA-0.50	IWC-1220(c)	
	1FW14CA-0.50	IWC-1220(c)	
	1FW14DA-0.50	IWC-1220(c)	
	1FW14EA-0.75	IWC-1220(c)	
	1FW14FA-0.75	IWC-1220(c)	
	1FW14GA-0.75	IWC-1220(c)	
	1FW14HA-0.75	IWC-1220(c)	
	1FW15AA-0.50	IWC-1220(c)	
	1FW15BA-0.50	IWC-1220(c)	
	1FW15CA-0.50	IWC-1220(c)	
	1FW15DA-0.50	IWC-1220(c)	
	1FW15EA-0.75	IWC-1220(c)	
	1FW15FA-0.75	IWC-1220(c)	
	1FW15GA-0.75	IWC-1220(c)	
	1FW15HA-0.75	IWC-1220(c)	
	1FW74EA-0.75	IWC-1220(c)	
	1FW74FA-0.75	IWC-1220(c)	
	1FW74GA-0.75	IWC-1220(c)	
	1FW74HA-0.75	IWC-1220(c)	
	1FW76AA-1.0	IWC-1220(c)	
	1FW76AB-1.0	IWC-1220(c)	
	1FW76AC-1.0	IWC-1220(c)	
	1FW76AD-1.0	IWC-1220(c)	
	1FW82AA-3.0	IWC-1220(c)	
	1FW82AB-3.0	IWC-1220(c)	
	1FW82AC-3.0	IWC-1220(c)	
	1FW82AD-3.0	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping — CLASS 2 — REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Main Feedwater	1FW82BA-3.0	IWC-1220(c)	
	1FW82BB-3.0	IWC-1220(c)	
	1FW82BC-3.0	IWC-1220(c)	
	1FW82BD-3.0	IWC-1220(c)	
	1FW87BA-3.0	IWC-1220(c)	
	1FW87BB-3.0	IWC-1220(c)	
	1FW87BC-3.0	IWC-1220(c)	
	1FW87BD-3.0	IWC-1220(c)	
	1FW91AA-0.50	IWC-1220(c)	
	1FW91BA-0.50	IWC-1220(c)	
	1FW91CA-0.50	IWC-1220(c)	
	1FW91DA-0.50	IWC-1220(c)	
	1FW91EA-0.75	IWC-1220(c)	
	1FW91FA-0.75	IWC-1220(c)	
	1FW91GA-0.75	IWC-1220(c)	
	1FW91HA-0.75	IWC-1220(c)	
	1FW101AA-0.75	IWC-1220(c)	
	1FW101AB-0.75	IWC-1220(c)	
	1FW101AC-0.75	IWC-1220(c)	
	1FW101AD-0.75	IWC-1220(c)	
	1FW102AA-4.0	IWC-1220(c)	
	1FW102AB-4.0	IWC-1220(c)	
	1FW102AC-4.0	IWC-1220(c)	
	1FW102AD-4.0	IWC-1220(c)	
	1FW102AE-4.0	IWC-1220(c)	
	1FW102AF-4.0	IWC-1220(c)	
	1FW102AG-4.0	IWC-1220(c)	
	1FW102AH-4.0	IWC-1220(c)	
	1FW102AJ-4.0	IWC-1220(c)	
	1FW102AK-4.0	IWC-1220(c)	
	1FW102AL-4.0	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Main Feedwater	1FW102AM-4.0	IWC-1220(c)	
	1FW102AN-4.0	IWC-1220(c)	
	1FW102AP-4.0	IWC-1220(c)	
	1FW102AQ-4.0	IWC-1220(c)	
	1FW102AR-4.0	IWC-1220(c)	
Instrument Air	All	IWC-1220(b), (c)	
Main Steam	1MS01FA-4.0	IWC-1220(c)	
	1MS01FB-4.0	IWC-1220(c)	
	1MS01FC-4.0	IWC-1220(c)	
	1MS01FD-4.0	IWC-1220(c)	
	1MS20AA-3.0	IWC-1220(c)	
	1MS20AB-3.0	IWC-1220(c)	
	1MS20AC-3.0	IWC-1220(c)	
	1MS20AD-3.0	IWC-1220(c)	
	1MS21AA-0.75	IWC-1220(c)	
	1MS21AB-0.75	IWC-1220(c)	
	1MS21AC-0.75	IWC-1220(c)	
	1MS21AD-0.75	IWC-1220(c)	
	1MS68AA-0.75	IWC-1220(c)	
	1MS68AB-0.75	IWC-1220(c)	
	1MS68AC-0.75	IWC-1220(c)	
	1MS68AD-0.75	IWC-1220(c)	
	1MS70AA-0.50	IWC-1220(c)	
	1MS70BA-0.50	IWC-1220(c)	
	1MS70CA-0.50	IWC-1220(c)	
	1MS70CA-0.50	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping | CLASS 2 | REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Main Steam (Continued)	1MS70EA-0.75	IWC-1220(c)	
	1MS70FA-0.75	IWC-1220(c)	
	1MS70GA-0.75	IWC-1220(c)	
	1MS70HA-0.75	IWC-1220(c)	
	1MS70JA-0.50	IWC-1220(c)	
	1MS70KA-0.50	IWC-1220(c)	
	1MS70LA-0.50	IWC-1220(c)	
	1MS70MA-0.50	IWC-1220(c)	
	1MS70NA-0.75	IWC-1220(c)	
	1MS70PA-0.75	IWC-1220(c)	
	1MS70QA-0.75	IWC-1220(c)	
	1MS70RA-0.75	IWC-1220(c)	
	1MS71AA-0.75	IWC-1220(c)	
	1MS71BA-0.75	IWC-1220(c)	
	1MS71CA-0.75	IWC-1220(c)	
	1MS71DA-0.75	IWC-1220(c)	
	1MS72AA-0.75	IWC-1220(c)	
	1MS72BA-0.75	IWC-1220(c)	
	1MS72CA-0.75	IWC-1220(c)	
	1MS72DA-0.75	IWC-1220(c)	
	1MS72EA-0.75	IWC-1220(c)	
	1MS72FA-0.75	IWC-1220(c)	
	1MS72GA-0.75	IWC-1220(c)	
	1MS72HA-0.75	IWC-1220(c)	
	1MS72JA-0.75	IWC-1220(c)	
	1MS72KA-0.75	IWC-1220(c)	
	1MS72LA-0.75	IWC-1220(c)	
	1MS72MA-0.75	IWC-1220(c)	
	1MS73DA-1.50	IWC-1220(c)	
	1MS73HA-1.50	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Main Steam	1MS142AA-4.0	IWC-1220(c)	
	1MS142AB-4.0	IWC-1220(c)	
	1MS142AC-4.0	IWC-1220(c)	
	1MS142AD-4.0	IWC-1220(c)	
	1MS142AE-4.0	IWC-1220(c)	
	1MS142AF-4.0	IWC-1220(c)	
	1MS142AG-4.0	IWC-1220(c)	
	1MS142AH-4.0	IWC-1220(c)	
Nitrogen	All	IWC-1220(b), (c)	
Off Gas	All	IWC-1220(b), (c)	
Process Radiation Monitoring	All	IWC-1220(b), (c)	
Process Sampling	All	IWC-1220 (c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Commonwealth
Edison

Unit 1

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Reactor Coolant	1RC06AA-0.75	IWC-1220(c)	
	1RC06AB-0.75	IWC-1220(c)	
	1RC06BA-0.75	IWC-1220(c)	
	1RC07AA-0.75	IWC-1220(c)	
	1RC12AA-0.75	IWC-1220(c)	
	1RC12AB-0.75	IWC-1220(c)	
	1RC12AC-0.75	IWC-1220(c)	
	1RC12AD-0.75	IWC-1220(c)	
	1RC15AA-0.75	IWC-1220(c)	
	1RC15AB-0.75	IWC-1220(c)	
	1RC15AC-0.75	IWC-1220(c)	
	1RC15AD-0.75	IWC-1220(c)	
	1RC18AA-0.75	IWC-1220(c)	
	1RC18AB-0.75	IWC-1220(c)	
	1RC18AC-0.75	IWC-1220(c)	
	1RC18AD-0.75	IWC-1220(c)	
	1RC19AA-0.75	IWC-1220(c)	
	1RC19AB-0.75	IWC-1220(c)	
	1RC19AC-0.75	IWC-1220(c)	
	1RC19AD-0.75	IWC-1220(c)	
	1RC25AA-0.75	IWC-1220(c)	
	1RC25AB-0.75	IWC-1220(c)	
	1RC27A-0.75	IWC-1220(c)	
	1RC32AA-0.75	IWC-1220(c)	
	1RC32AB-0.75	IWC-1220(c)	
	1RC32B-0.375	IWC-1220(c)	
	1RC33A-0.375	IWC-1220(c)	
	1RC33CA-0.375	IWC-1220(c)	
	1RC38AA-0.375	IWC-1220(c)	
	1RC38AB-0.375	IWC-1220(c)	
	1RC38BA-0.375	IWC-1220(c)	
	1RC38BB-0.75	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Reactor Coolant	1RC38CA-0.75	IWC-1220(c)	
	1RC38CB-0.75	IWC-1220(c)	
	1RC38DA-0.75	IWC-1220(c)	
	1RC38DB-0.75	IWC-1220(c)	
	1RC38EA-0.75	IWC-1220(c)	
	1RC38EB-0.75	IWC-1220(c)	
	1RC38FA-0.75	IWC-1220(c)	
	1RC38FB-0.75	IWC-1220(c)	
	1RC38GA-0.75	IWC-1220(c)	
	1RC38GB-0.75	IWC-1220(c)	
	1RC38HA-0.75	IWC-1220(c)	
	1RC38HB-0.75	IWC-1220(c)	
	1RC40AA-0.75	IWC-1220(c)	
	1RC40BA-0.75	IWC-1220(c)	
	1RC40CA-0.75	IWC-1220(c)	
	1RC40DA-0.75	IWC-1220(c)	
	1RC40EA-0.75	IWC-1220(c)	
	1RC40FA-0.75	IWC-1220(c)	
	1RC40GA-0.75	IWC-1220(c)	
	1RC40HA-0.75	IWC-1220(c)	
	1RC40JA-0.75	IWC-1220(c)	
	1RC40KA-0.75	IWC-1220(c)	
	1RC40LA-0.75	IWC-1220(c)	
	1RC40MA-0.75	IWC-1220(c)	
	1RC40NA-0.75	IWC-1220(c)	
	1RC40PA-0.75	IWC-1220(c)	
	1RC40QA-0.75	IWC-1220(c)	
	1RC40RA-0.75	IWC-1220(c)	
	1RC42AA-0.75	IWC-1220(c)	
	1RC42BA-0.75	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Reactor Coolant	1RC44AA-1.0	IWC-1220(c)	
	1RC44AB-1.0	IWC-1220(c)	
	1RC48AA-0.375	IWC-1220(c)	
	1RC48AB-0.375	IWC-1220(c)	
	1RC48AC-0.375	IWC-1220(c)	
	1RC48AD-0.375	IWC-1220(c)	
	1RC49A-0.75	IWC-1220(c)	
	1RC55AA-0.75	IWC-1220(c)	
	1RC55AB-0.75	IWC-1220(c)	
	1RC55AC-0.75	IWC-1220(c)	
	1RC55AD-0.75	IWC-1220(c)	
	1RC56AA-0.75	IWC-1220(c)	
	1RC56AB-0.75	IWC-1220(c)	
Reactor Building Drain	All	IWC-1220(b), (c)	
Reactor Building Floor Drain	All	IWC-1220(b), (c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT		EXEMPTION		REMARKS
Residual Heat Removal	1RH05AA-0.75		*IWC-1220(d)		
	1RH05AB-0.75		*IWC-1220(d)		
	1RH06AA-0.75		*IWC-1220(d)		
	1RH06BA-0.75		*IWC-1220(d)		
	1RH07AA-0.75		*IWC-1220(d)		
	1RH07AB-0.75		*IWC-1220(d)		
	1RH08AA-0.75		*IWC-1220(d)		
	1RH08AB-0.75		*IWC-1220(d)		
	1RH10AA-3.0		*IWC-1220(d)		
	1RH10AB-3.0		*IWC-1220(d)		
	1RH10CA-3.0		*IWC-1220(d)		
	1RH10CB-3.0		*IWC-1220(d)		
	1RH11AA-0.75		*IWC-1220(d)		
	1RH11AB-0.75		*IWC-1220(d)		
	1RH13AA-2.0		*IWC-1220(d)		
	1RH13AB-2.0		*IWC-1220(d)		
	1RH13B-2.0		*IWC-1220(d)		
	1RH16AA-0.75		*IWC-1220(d)		
	1RH16BA-0.75		*IWC-1220(d)		
	1RH19AA-0.75		*IWC-1220(d)		
	1RH19AB-0.75		*IWC-1220(d)		
	1RH19AC-0.75		*IWC-1220(d)		
	1RH19AD-0.75		*IWC-1220(d)		
	1RH19AE-0.75		*IWC-1220(d)		
	1RH19AF-0.75		*IWC-1220(d)		
	1RH19BA-0.75		*IWC-1220(d)		
	1RH19BB-0.75		*IWC-1220(d)		
	1RH20AC-0.75		*IWC-1220(d)		
	1RH20AD-0.75		*IWC-1220(d)		
	1RH20AE-0.75		*IWC-1220(d)		
	1RH20AF-0.75		*IWC-1220(d)		
	1RH20AG-0.75		*IWC-1220(d)		

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Commonwealth
Edison

Unit 1

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Residual Heat Removal (Cont.)	1RH20AH-0.75	*IWC-1220(d)	
	1RH22AA-0.50	*IWC-1220(d)	
	1RH22AB-0.50	*IWC-1220(d)	
	1RH23AA-0.50	*IWC-1220(d)	
	1RH23AB-0.50	*IWC-1220(d)	
	1RH24AA-0.50	*IWC-1220(d)	
	1RH24AB-0.50	*IWC-1220(d)	
	1RH26AA-0.75	*IWC-1220(d)	
	1RH26AB-0.75	*IWC-1220(d)	
	1RH27AA-0.50	*IWC-1220(d)	
	1RH27AB-0.50	*IWC-1220(d)	
	1RH28AA-0.50	*IWC-1220(d)	
	1RH28AB-0.50	*IWC-1220(d)	
Pressurizer	1RY04A-0.75	IWC-1220(c)	
	1RY05A-0.75	IWC-1220(c)	
	1RY07AA-0.75	IWC-1220(c)	
	1RY07AB-0.75	IWC-1220(c)	
	1RY07AC-0.75	IWC-1220(c)	
	1RY07B-0.75	IWC-1220(c)	
	1RY09AA-0.75	IWC-1220(c)	
	1RY09AB-0.75	IWC-1220(c)	
	1RY10A-0.75	IWC-1220(c)	
	1RY14C-.375	IWC-1220(b)(c)	
	1RY30C-0.75	IWC-1220(b)(c)	
	1RY32A-3.0	IWC-1220(b)(c)	
	1RY34AA-0.75	IWC-1220(c)	
	1RY34BA-0.75	IWC-1220(c)	
	1RY34CA-0.75	IWC-1220(c)	
	1RY34DA-0.75	IWC-1220(c)	
	1RY34DC-0.50	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping | CLASS 2 | REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Pressurizer	1RY34EA-0.75	IWC-1220(c)	
	1RY34AF-0.75	IWC-1220(c)	
	1RY40A-0.75	IWC-1220(b), (c)	
	1RY41A-0.75	IWC-1220(b), (c)	
	1RY43A-0.75	IWC-1220(b), (c)	
	1RY72A-0.75	IWC-1220(b), (c)	
	1RY73A-0.375	IWC-1220(b), (c)	
	1RY80A-0.75	IWC-1220(b), (c)	
	1RY81A-0.75	IWC-1220(b), (c)	
Service Air	All	IWC-1220(b), (c)	
Steam Generator Blowdown	All	IWC-1220(c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Station Heating	All	IWC-1220(b), (c)	
Safety Injection	1SIA2AA-0.75	*IWC-1220(d)	
	1SIA2AB-0.75	*IWC-1220(d)	
	1SIA5B-0.75	*IWC-1220(d)	
	1SIA7AA-0.75	*IWC-1220(a), (d)	
	1SIB2AA-1.0	*IWC-1220(d)	
	1SIB2AB-1.0	*IWC-1220(d)	
	1SIB2AC-1.0	*IWC-1220(d)	
	1SIB2AD-1.0	*IWC-1220(d)	
	1SIB3A-0.75	*IWC-1220(d)	
	1SIB4AA-0.75	*IWC-1220(a), (d)	
	1SIB4BA-0.75	*IWC-1220(a), (d)	
	1SIB5AA-0.75	*IWC-1220(d)	
	1SIB5AB-0.75	*IWC-1220(d)	
	1SIB5AC-0.75	*IWC-1220(d)	
	1SIB5AD-0.75	*IWC-1220(d)	
	1SIB6AA-0.75	*IWC-1220(d)	
	1SIB6AB-0.75	*IWC-1220(d)	
	1SIB6AC-0.75	*IWC-1220(d)	
	1SIB6AD-0.75	*IWC-1220(d)	
	1SIB7AA-1.0	*IWC-1220(a), (d)	
	1SIB7AB-1.0	*IWC-1220(a), (d)	
	1SIC1A-3.0	*IWC-1220(a), (d)	
	1SIC2A-6.0	*IWC-1220(a)	
	1SIC3AA-1.0	*IWC-1220(d)	
	1SIC3BA-1.0	*IWC-1220(d)	
	1SIC3CA-1.0	*IWC-1220(d)	
	1SIC3DA-1.0	*IWC-1220(d)	
	1SIC3EA-1.0	*IWC-1220(d)	
	1SIC3FA-1.0	*IWC-1220(d)	
	1SIC3GA-1.0	*IWC-1220(d)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping — CLASS 2 — REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Safety Injection	1SIC3HA-1.0	*IWC-1220(d)	
	1SIC3JA-1.0	*IWC-1220(d)	
	1SIC3KA-1.0	*IWC-1220(d)	
	1SIC3LA-1.0	*IWC-1220(d)	
	1SIC3MA-1.0	*IWC-1220(d)	
	1SIC3NA-1.0	*IWC-1220(d)	
	1SIC3PA-1.0	*IWC-1220(d)	
	1SIC3QA-1.0	*IWC-1220(d)	
	1SIC3RA-1.0	*IWC-1220(d)	
	1SIC5AA-1.0	*IWC-1220(a), (d)	
	1SIC5AB-1.0	*IWC-1220(a), (d)	
	1SIC6A-4.0	*IWC-1220(a), (d)	
	1SIC7AA-0.75	*IWC-1220(d)	
	1SIC7AB-0.75	*IWC-1220(d)	
	1SID1AA-0.75	*IWC-1220(a), (d)	
	1SID1AB-0.75	*IWC-1220(a), (d)	
	1SID7AA-0.50	*IWC-1220(d)	
	1SID7AB-0.50	*IWC-1220(d)	
	1SIE3AA-0.75	*IWC-1220(d)	
	1SIE3BA-0.75	*IWC-1220(d)	
	1SIE3CA-0.75	*IWC-1220(d)	
	1SIE3DA-0.75	*IWC-1220(d)	
	1SIE4AA-0.75	*IWC-1220(d)	
	1SIE4BA-0.75	*IWC-1220(d)	
	1SIE4CA-0.75	*IWC-1220(d)	
	1SIE4DA-0.75	*IWC-1220(d)	
	1SIE5A-2.0	*IWC-1220(a), (d)	
	1SIE9AA-0.75	*IWC-1220(d)	
	1SIE9AB-0.75	*IWC-1220(d)	
	1SIF2A-0.75	*IWC-1220(d)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Commonwealth
Edison

Unit 1

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Safety Injection	1SIF3A-0.75	*IWC-1220(d)	
	1SIF4A-0.75	*IWC-1220(d)	
	1SIF5A-0.75	*IWC-1220(d)	
	1SIF6A-0.75	*IWC-1220(d)	
	1SIF6B-0.75	*IWC-1220(d)	
	1SIF7A-0.75	*IWC-1220(d)	
	1SIF7B-0.75	*IWC-1220(d)	
	1SIF9A-8.0	*IWC-1220(a)	
	1SIG1A-0.75	*IWC-1220(d)	
	1SI01A-8.0	*IWC-1220(a)	
	1SI01B-24.0	*IWC-1220(a)	
	1SI02A-8.0	*IWC-1220(a)	
	1SI02BA-6.0	*IWC-1220(a)	
	1SI02BB-6.0	*IWC-1220(a)	
	1SI03AA-4.0	*IWC-1220(d)	
	1SI03AB-4.0	*IWC-1220(d)	
	1SI03BA-4.0	*IWC-1220(d)	
	1SI03BB-4.0	*IWC-1220(d)	
	1SI03CA-2.0	*IWC-1220(d)	
	1SI03CB-2.0	*IWC-1220(d)	
	1SI03EA-2.0	*IWC-1220(d)	
	1SI03EB-2.0	*IWC-1220(d)	
	1SI08CA-4.0	*IWC-1220(d)	
	1SI08CB-4.0	*IWC-1220(d)	
	1SI08D-3.0	*IWC-1220(d)	
	1SI10A-3.0	*IWC-1220(a), (d)	
	1SI11BC-6.0	*IWC-1220(a)	
	1SI12A-0.75	*IWC-1220(a), (d)	
	1SI13A-6.0	*IWC-1220(a)	
	1SI13BA-6.0	*IWC-1220(a)	
	1SI13BB-6.0	*IWC-1220(a)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping — CLASS 2 — REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Safety Injection	1SI13C-6.0	*IWC-1220(a)	
	1SI14AA-0.75	*IWC-1220(a), (d)	
	1SI14AB-0.75	*IWC-1220(a), (d)	
	1SI15AA-0.75	*IWC-1220(a), (d)	
	1SI15BA-0.75	*IWC-1220(a), (d)	
	1SI16AA-1.50	*IWC-1220(d)	
	1SI16AB-1.50	*IWC-1220(d)	
	1SI16BA-3.0	*IWC-1220(d)	
	1SI16BB-3.0	*IWC-1220(d)	
	1SI16CA-1.50	*IWC-1220(d)	
	1SI16CB-1.50	*IWC-1220(d)	
	1SI16D-3.0	*IWC-1220(d)	
	1SI17A-0.75	*IWC-1220(d)	
	1SI18AA-4.0	*IWC-1220(d)	
	1SI18AB-4.0	*IWC-1220(d)	
	1SI18B-4.0	*IWC-1220(d)	
	1SI18C-4.0	*IWC-1220(d)	
	1SI18DA-4.0	*IWC-1220(d)	
	1SI18DB-4.0	*IWC-1220(d)	
	1SI18EA-2.0	*IWC-1220(d)	
	1SI18EB-2.0	*IWC-1220(d)	
	1SI18EC-2.0	*IWC-1220(d)	
	1SI18ED-2.0	*IWC-1220(d)	
	1SI19AA-0.75	*IWC-1220(d)	
	1SI19AB-0.75	*IWC-1220(d)	
	1SI19AC-0.75	*IWC-1220(d)	
	1SI19AD-0.75	*IWC-1220(d)	
	1SI19AE-0.75	*IWC-1220(d)	
	1SI19AF-0.75	*IWC-1220(d)	
	1SI19AG-0.75	*IWC-1220(d)	
	1SI19AH-0.75	*IWC-1220(d)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Safety Injection	1SI20A-0.75	*IWC-1220(d)	
	1SI21A-0.75	*IWC-1220(d)	
	1SI22A-0.75	*IWC-1220(d)	
	1SI22AA-0.75	*IWC-1220(d)	
	1SI22AB-0.75	*IWC-1220(d)	
	1SI23A-0.75	*IWC-1220(d)	
	1SI23B-0.75	*IWC-1220(d)	
	1SI24A-0.75	*IWC-1220(d)	
	1SI26AA-0.75	*IWC-1220(d)	
	1SI26AB-0.75	*IWC-1220(d)	
	1SI27AA-0.75	*IWC-1220(d)	
	1SI27AB-0.75	*IWC-1220(d)	
	1SI27BA-0.50	*IWC-1220(d)	
	1SI27BB-0.50	*IWC-1220(d)	
	1SI27CA-0.50	*IWC-1220(d)	
	1SI28AA-0.75	*IWC-1220(d)	
	1SI28AB-0.75	*IWC-1220(d)	
	1SI29A-0.75	*IWC-1220(d)	
	1SI30AA-0.75	*IWC-1220(d)	
	1SI30AB-0.75	*IWC-1220(d)	
	1SI30AC-0.75	*IWC-1220(d)	
	1SI30AD-0.75	*IWC-1220(d)	
	1SI31AA-0.75	*IWC-1220(d)	
	1SI31AB-0.75	*IWC-1220(d)	
	1SI32A-0.75	*IWC-1220(d)	
	1SI35AA-2.0	*IWC-1220(d)	
	1SI35AB-2.0	*IWC-1220(d)	
	1SI35AE-2.0	*IWC-1220(d)	
	1SI36AA-0.75	*IWC-1220(d)	
	1SI36AB-0.75	*IWC-1220(d)	
	1SI38A-0.75	*IWC-1220(d)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping

CLASS 2

REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Safety Injection	1SI39A-0.75	*IWC-1220(d)	
	1SI46AA-0.75	*IWC-1220(d)	
	1SI46AB-0.75	*IWC-1220(d)	
	1SI46AC-0.75	*IWC-1220(d)	
	1SI46AD-0.75	*IWC-1220(d)	
	1SI46AE-0.75	*IWC-1220(d)	
	1SI46AF-0.75	*IWC-1220(d)	
	1SI46AG-0.75	*IWC-1220(d)	
	1SI46AH-0.75	*IWC-1220(d)	
	1SI47AA-2.0	*IWC-1220(d)	
	1SI47AB-2.0	*IWC-1220(d)	
	1SI47AC-2.0	*IWC-1220(d)	
	1SI47AD-2.0	*IWC-1220(d)	
	1SI48AA-0.75	*IWC-1220(d)	
	1SI48AB-0.75	*IWC-1220(d)	
	1SI48AC-0.75	*IWC-1220(d)	
	1SI48AD-0.75	*IWC-1220(d)	
	1SI48AE-0.75	*IWC-1220(d)	
	1SI48AF-0.75	*IWC-1220(d)	
	1SI48AG-0.75	*IWC-1220(d)	
	1SI48AH-0.75	*IWC-1220(d)	
	1SI49B-0.75	*IWC-1220(a), (d)	
	1SI50A-0.75	*IWC-1220(d)	
	1SI53AA-14.00	*IWC-1220(a)	
	1SI53AB-14.00	*IWC-1220(a)	
	1SI59AA-1.0	*IWC-1220(d)	
	1SI59AB-1.0	*IWC-1220(d)	
	1SI59AC-1.0	*IWC-1220(d)	
	1SI59AD-1.0	*IWC-1220(d)	
	1SI60AA-1.0	*IWC-1220(d)	
	1SI60AB-1.0	*IWC-1220(d)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping — CLASS 2 — REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Safety Injection	1SI60AC-1.0	*IWC-1220(d)	
	1SI60AD-1.0	*IWC-1220(d)	
	1SI61AA-0.75	*IWC-1220(d)	
	1SI61AB-0.75	*IWC-1220(d)	
	1SI61AC-0.75	*IWC-1220(d)	
	1SI61AD-0.75	*IWC-1220(d)	
	1SI69DA-1.0	*IWC-1220(d)	
	1SI69DB-1.0	*IWC-1220(d)	
	1SI69DC-1.0	*IWC-1220(d)	
	1SI69DD-1.0	*IWC-1220(d)	
	1SI69EA-1.0	*IWC-1220(d)	
	1SI69EB-1.0	*IWC-1220(d)	
	1SI69EC-1.0	*IWC-1220(d)	
	1SI69ED-1.0	*IWC-1220(d)	
	1SI71C-1.0	*IWC-1220(d)	
	1SI73AA-1.0	*IWC-1220(d)	
	1SI73AB-1.0	*IWC-1220(d)	
	1SI73AC-1.0	*IWC-1220(d)	
	1SI73AD-1.0	*IWC-1220(d)	
	1SI77BA-0.75	*IWC-1220(d)	
	1SI77DA-0.75	*IWC-1220(d)	
	1SI78AA-0.75	*IWC-1220(d)	
	1SI78BA-0.75	*IWC-1220(d)	
	1SI79AA-2.0	*IWC-1220(d)	
	1SI79BA-2.0	*IWC-1220(d)	
	1SI79CA-2.0	*IWC-1220(d)	
	1SI79DA-2.0	*IWC-1220(d)	
	1SI79EA-2.0	*IWC-1220(d)	
	1SI79FA-2.0	*IWC-1220(d)	
	1SI79GA-2.0	*IWC-1220(d)	
	1SI79HA-2.0	*IWC-1220(d)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Safety Injection (Cont.)	1SI79JA-2.0	*IWC-1220(d)	
	1SI79KA-2.0	*IWC-1220(d)	
	1SI79LA-2.0	*IWC-1220(d)	
	1SI79MA-2.0	*IWC-1220(d)	
	1SI79PA-2.0	*IWC-1220(d)	
	1SI79QA-2.0	*IWC-1220(d)	
	1SI79RA-2.0	*IWC-1220(d)	
	1SI79SA-2.0	*IWC-1220(d)	
	1SI80A-0.75	*IWC-1220(d)	
	1SI81A-0.75	*IWC-1220(d)	
	1SI82AA-12.0	*IWC-1220(d)	
	1SI82AB-12.0	*IWC-1220(d)	
	1SI84A-0.75	*IWC-1220(d)	
	1SI85A-0.75	*IWC-1220(d)	
	1SI86A-0.75	*IWC-1220(d)	
	1SI87A-0.75	*IWC-1220(d)	
	1SI88AA-0.75	*IWC-1220(d)	
	1SI88AB-0.75	*IWC-1220(d)	
	1SI89A-0.75	*IWC-1220(d)	
	1SI91AA-0.75	*IWC-1220(d)	
	1SI91AB-0.75	*IWC-1220(d)	
	1SI92A-0.75	*IWC-1220(d)	
	1SI99AA-0.75	*IWC-1220(a) (d)	
	1SI99BA-0.75	*IWC-1220(a) (d)	
	1SI99CA-0.75	*IWC-1220(a) (d)	
	1SI99DA-0.75	*IWC-1220(a) (d)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping (1) CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION		REMARKS
Essential Service Water	All		IWC-1220(b), (c)	
Purge System	All		IWC-1220(b), (c)	
Make-Up Demineralizer	All		IWC-1220(b), (c)	
Chilled Water	All		IWC-1220(b), (c)	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 2 Piping and Valves CLASS 2 REV. 1

SYSTEM	COMPONENT	EXEMPTION			REMARKS
	Pumps and Valves				Pumps and Valves connected to exempt piping

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 3 Components CLASS 3 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Boric Acid Processing	All	IWD-A,B,C	Pumps and Valves connected to exempt piping
Auxiliary Feedwater	AF lines ≤ 4.0" diameter	IWD-A,B,C	
Boron Thermal Regeneration	All	IWD-A,B,C	
Component Cooling	CC lines ≤ 4.0" diameter	IWD-A,B,C	
Chemical and Volume Control	All	IWD-A,B,C	
Diesel Oil Transfer	All	IWD-A,B,C	
Fuel Pool Cooling	FC lines ≤ 4.0" diameter	IWD-A,B,C	
Fire Protection	FP lines ≤ 4.0" diameter	IWD-A,B,C	

BRAIDWOOD STATION
INSERVICE PROGRAM
1st INTERVAL

Unit 1

Commonwealth
Edison

Description: Exempt Class 3 Components CLASS 3 REV. 1

SYSTEM	COMPONENT	EXEMPTION	REMARKS
Radioactive Waste Gas	All	IWD-A,B,C	
Process Sampling	All	IWD-A,B,C	
Reactor Equipment Drains	All	IWD-A,B,C	
Residual Heat Removal	All	IWD-A,B,C	
Pressurizer	All	IWD-A,B,C	
Service Air (Diesel Gen. Starting Air)	All	IWD-A,B,C	
Safety Injection	All	IWD-A,B,C	
Essential Service Water	SX lines ≤ 4.0" diameter	IWD-A,B,C	
Aux Building Equip. Drains	All	IWD-A,B,C	
Chilled Water	WO lines ≤ 4.0" diameter	IWD-A,B,C	

2.5

INSERVICE INSPECTION

ISOMETRIC DRAWINGS

Inservice Inspection Isometric Drawings

The following pages contain Isometric Drawing for all components which require volumetric and/or surface examination. The following is a list of these isometrics:

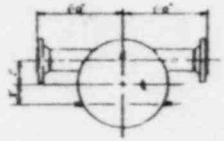
Drawing No.	Title
1ELHX-01	Excess Letdown Heat Exchanger
1CSP-01	Containment Spray Pumps
1PZR-01	Pressurizer Vessel
1SG-01	Steam Generator 1A
1SG-02	Steam Generator 1B
1SG-03	Steam Generator 1C
1SG-04	Steam Generator 1D
1RHX-01	Residual Heat Exchanger
1RGX-01	Regenerative Heat Exchanger
1SWRF-01	Seal Water Heat Exchanger, Misc, Filters
1RCP-01	Reactor Coolant Pumps
1VCT-01	Volume Control Tank
1RHP-01	Residual Heat Removal Pumps & Charging Pumps
1LRHX-01	Letdown Reheat Heat Exchanger
1LHX-01	Horizontal Letdown Heat Exchanger
1CV-01	Chem. & Vol. Control Line 1CVB7A-3"
1CV-02	Chem. & Vol. Control Line 1CV45B-2" & 1RY18A-2"
1CV-03	Chem. & Vol. Control Line 1CV14FB-2" & 1CV14GB-1 ½"
1CV-04	Chem. & Vol. Control Line 1CVA5AB-2" & 1CVA6AB-2"
1CV-05	Chem. & Vol. Control Line 1CVA3B-2"
1CV-06	Chem. & Vol. Control Line 1CV1FA-2" & 1CV14FD-2" & 1CV14GD-1½" & 1CV14GA-1½"
1CV-07	Chem. & Vol. Control Line 1CVA3B-2"
1CV-08	Chem. & Vol. Control Line 1CVA5AA-2"
1CV-09	Chem. & Vol. Control Line 1CVA3B-2" & 1CVA3AB-2"
1CV-10	Chem. & Vol. Control Line 1CVA7Ab-2"
1CV-11	Chem. & Vol. Control Line 1CVA3B-2" & 1CVA6AA-2"
1CV-12	Chem. & Vol. Control Line 1CV45B-2"
1CV-13	Chem. & Vol. Control Line 1CVA3B-2"
1CV-14	Chem. & Vol. Control Line 1CVA3B-2"
1CV-15	Chem. & Vol. Control Line 1CVA3B-2"
1CV-16	Chem. & Vol. Control Line 1CV14FC-2" & 1CV14GC-1½"
1FW-01	Feedwater Line - 1FW86AD-16" & 1FW03DD-16"
1FW-02	Feedwater Line - 1FW87AA-16" & 1FW03DA-16"
1FW-03	Feedwater Line - 1FW86AB-16" & 1FW03DB-16"
1FW-04	Feedwater Line - 1FW03DC-16" & 1FW87AC-16"
1FW-05	Feedwater Line - 1FW81AB-6" & 1FW81BB-6" & 1FW87CB-6"
1FW-06	Feedwater Line - 1FW87CB-6"
1FW-07	Feedwater Line - 1FW87CC-6"
1FW-08	Feedwater Line - 1FW87CD-6"
1FW-09	Feedwater Line - 1FW87CA-6"
1FW-10	Feedwater Line - 1FW81BC-6", 1FW87CC-6" 1FW81AC-6
1FW-11	Feedwater Line - 1FW81AA-6", 1FW81BA-6" & 1FW87CA-6"
1FW-12	Feedwater Line - 1FW81AD-6", 1FW81BD-6" & 1FW87CD-6"

Drawing No.	Title
1MS-01	Main Stm. Line 1MS01AD-30 ¼"
1MS-02	Main Stm. Line 1MS01BD-30 ¼", 1MS07AD-28" & 1MS13AD-8"
1MS-03	Main Stm. Line 1MS01AA-30 ¼"
1MS-04	Main Stm. Line 1MS01Ba-30 ¼", 1MS13AA-8", 1MS143AA-12", 1MS07BA-28" & 1MS07AA-28"
1MS-05	Main Stm. Line 1MS01AB-32 3/4"
1MS-06	Main Stm. Line 1MS01BB-32 3/4", 1MS07AB-28" & 1MS13AB-8"
1MS-07	Main Stm. Line 1Ms01AC-32 3/4"
1MS-08	Main Stm. Line 1MS01BC-32 3/4", 1MS07AC-28" & 1MS13AC-8"
1RC-01	Primary Coolant System Loop 1
1RC-02	Primary Coolant System Loop 2
1RC-03	Primary Coolant System Loop 3
1RC-04	Primary Coolant System Loop 4
1RC-05	Reactor Coolant Surge Line 1RY11A-14"
1RC-06	Reactor Coolant Line 1RC21AA-8" & 1RC21BA-8"
1RC-07	Reactor Coolant Line 1RC28A-3" 1CV10DA-3", 1RC37A-3", 1CV10DB-3", & 1RC36A-3"
1RC-08	Reactor Coolant Line 1RC09FA-3" & 1RC09EA-3"
1RC-09	Reactor Coolant Line 1RC21AB-8"
1RC-10	Reactor Coolant Line 1RC09FB-3"
1RC-11	Reactor Coolant Line 1RC04AB-12", 1RC05AB-6" & 1RH01AB-12"
1RC-12	Reactor Coolant Line 1RC21AC-8" & 1RC21BC-8"
1RC-13	Reactor Coolant Line 1RC09EC-3" & 1RC09FC-3"
1RC-14	Reactor Coolant Line 1RC24AB-4" & 1RY01AB-4"
1RC-15	Reactor Coolant Line 1RC21AD-8" & 1RC21BD-8"
1RC-16	Reactor Coolant Line 1RY01B-6" & 1RC01C-4"
1RC-17	Reactor Coolant Line 1RC24AA-4", 1RY01AA-4", 1RY01AB-4" & 1RY01B-6"
1RC-18	Reactor Coolant Line 1RC09FD-3" & 1RC09ED-3"
1RC-19	Reactor Coolant Line 1RC22AB-1½" & 1RC46AB-3"
1RC-20	Reactor Coolant Line 1RC22AD-1½" & 1RC46AD-3"
1RC-21	Reactor Coolant Line 1RC22AB-1½" & 1RC46AD-3"
1RC-22	Reactor Coolant Line 1RC05AA-6" & 1RC35AB-6"
1RC-23	Reactor Coolant Line 1RC22AA-1½" & 1RC46AA-3"
1RC-24	Reactor Coolant Line 1RC22AC-1½" & 1RC35AC-3"
1RC-25	Reactor Coolant Line 1RC17AD-2", 1RC43AD-2" & 1RC17BD-2"
1RC-26	Reactor Coolant Line 1RC09BD-2" 1RC09CD-2", 1RC09DD-2" & 1RC53DA-2"
1RC-27	Reactor Coolant Line 1RC22AA-1 ½" & 1RC22AC-1 ½"
1RC-28	Reactor Coolant Line 1RC09BA-2", 1RC09CA-2", 1RC09DA-2", 1RC53AA-2"
1RC-29	Reactor Coolant Line 1RC16AC-2" & 1RC16AD-2"
1RC-30	Reactor Coolant Line 1RC13AA-2" 1RC13AB-2", 1RC13AC-2" & 1RC13AD-2"
1RC-31	Reactor Coolant Line 1RC14AB-2" & 1RC26A-2"

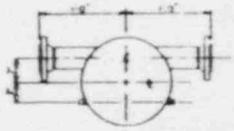
Drawing No.	Title
1RC-32	Reactor Coolant Line 1RY03Aa-6", 1RY03AB-6", 1RY03BA-6", 1RY03BB-6", 1RY03BC-6", 1RY03AC-6"
1RC-33	Reactor Coolant Line 1RC09BB-2", 1RC09CB-2", 1RC09DB-2", 1RC53BA-2" & 1RC09EB-3"
1RC-34	Reactor Coolant Line 1RC09BC-2", 1RC09CC-2", 1RC09DC-2" & 1RC53CA-2"
1RC-35	Reactor Coolant Line 1RY02A-6" 1RY06A-3", 1RY02B-3"
1RC-36	Reactor Coolant Line 1RC14AA-2" & 1CVA3AA-2"
1RC-37	Reactor Coolant Line 1RC14AD-2" & 1CVA7AA-2"
1RC-38	Reactor Coolant Line 1RC17AB-2", 1RC17BB-2", 1RC43AB-2"
1RC-39	Reactor Coolant Line 1RC17AA-2", 1RC17BA-2", 1RC43AA-2"
1RC-40	Reactor Coolant Line 1RC17AC-2", 1RC43AC-2", 1RC17BC-2"
1RC-41	Reactor Coolant Line 1RC16AA-2" & 1RC16AB-2"
1RC-42	Reactor Coolant Line 1RC14AC-2"
1RH-01	Residual Heat Removal Line 1RH01AB-12"
1RH-02	Residual Heat Removal Line 1RH01AA-12"
1RH-03	Residual Heat Removal Line 1RH03AA-8", 1RH12A-8"
1RH-04	Residual Heat Removal Line 1RH01BA-12", 1RH01CA-16" & 1SI82BA-12"
1RH-05	Residual Heat Removal Line 1RH02AA-8" & 1RH09AA-8"
1RH-06	Residual Heat Removal Line 1RH02AB-8", 1RH03AB-8", & 1RH09AB-8"
1RH-07	Residual Heat Removal Line 1RH03AB-8", 1RH14A-8" 1RH03AA-8"
1RH-08	Residual Heat Removal Line 1RH01BB-12" 1RH01CB-16 & 1SI82BB-12"
1RH-09	Residual Heat Removal Line 1RH02AB-8"
1SI-01	Safety Inject Line 1SI09BA-10", 1RC29AA-10"
1SI-02	Safety Inject Line 1SIA4B-8", 1SI03FA-2", 1RC04AA-12", 1RC35AA-6"
1SI-03	Safety Inject Line 1SI05DA-6"
1SI-04	Safety Inject Line 1SI05BA-8" & 1SI05CA-8" & 1SI05CD-8"
1SI-05	Safety Inject Line 1SI09BB-10" & 1RC29AB-10"
1SI-06	Safety Inject Line 1SI05DB-6" & 1SI18FB-2"
1SI-07	Safety Inject Line 1SI08FA-3", 1SI08FB-3" & 1SI08E-3"
1SI-08	Safety Inject Line 1SI09FA-3"
1SI-09	Safety Inject Line 1SI09BC-10" & 1RC29AC-10"
1SI-10	Safety Inject Line 1SI05DC-6" & 1SI18FC-2"
1SI-11	Safety Inject Line 1SI04D-8" & 1SI03DB-2"
1SI-12	Safety Inject Line 1SI04A-12", 1SI04B-12", 1SI04C-8" & 1SIA4A-8"
1SI-13	Safety Inject Line 1SI09BD-10" & 1RC29AD-10"
1SI-14	Safety Inject Line 1SI05DD-6"
1SI-15	Safety Inject Line 1SI09JC-1 ½", 1RC45AC-3" & 1RC30AC-1 ½"
1SI-16	Safety Inject Line 1SI08JD-1 ½", 1RC45AD-3" & 1RC30AD-1"
1SI-17	Safety Inject Line 1SI08JD-1 ½", 1RC45AB-3" & 1RC30AB-1"
1SI-18	Safety Inject Line 1SI08HB-2", 1SI08GB-1 ½", 1SI08JB-1 ½"
1SI-19	Safety Inject Line 1SI08Ga-1 ½" 1SI08HA-2" & 1SI08JA-1 ½"

Drawing No.	Title
1SI-20	Safety Inject Line 1SI08GC-1 ½" 1SI08HC-2", 1SI08GD-1 ½", 1SI08HD-2", 1SI08JC-1 ½", 1SI08JD-1 ½"
1SI-21	Safety Inject Line 1SI03DA-2"
1SI-22	Safety Inject Line 1SI03FB-2"
1SI-23	Safety Inject Line 1SI18FA-2", 1SI18FD-2", 1RY76A-2"
1SI-24	Safety Inject Line 1SI06BA-24", 1SI06BB-24"
1SI-25	Safety Inject Line 1SI05AA-8"
1SI-26	Safety Inject Line 1SI05BB-8", 1SI05CB-8" & 1SI05CC-8"
1SI-27	Safety Inject Line 1SI08JD-1 ½"
1SI-28	Safety Inject Line 1SI09AB-10" & 1SI09AC-10"
1SI-29	Safety Inject Line 1SI08JC-1 ½"
1SI-30	Safety Inject Line 1SI09AA-10" & 1SI09AD-10"
1SI-31	Safety Inject Line 1SI08Ja-1", 1RC45AA-3", 1RC30AA-1"
1SI-32	Safety Inject Line 1SI05AB-8"
1SI-33	Safety Inject Line 1SI34A-8"
1RV-01	R.P.V. Welds Zone 1 1 of 2
1RV-02	R.P.V. Welds Zone 1 2 of 2
1RV-03	R.P.V. Welds Zone 2

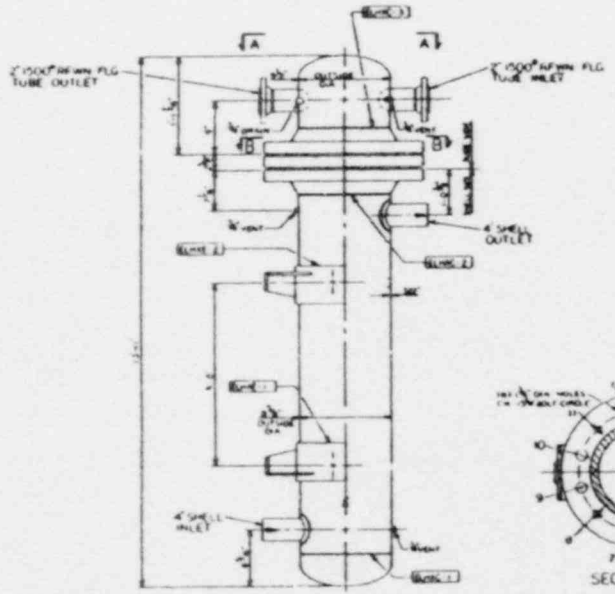
1ELHX-01



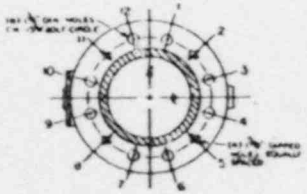
VIEW A-A



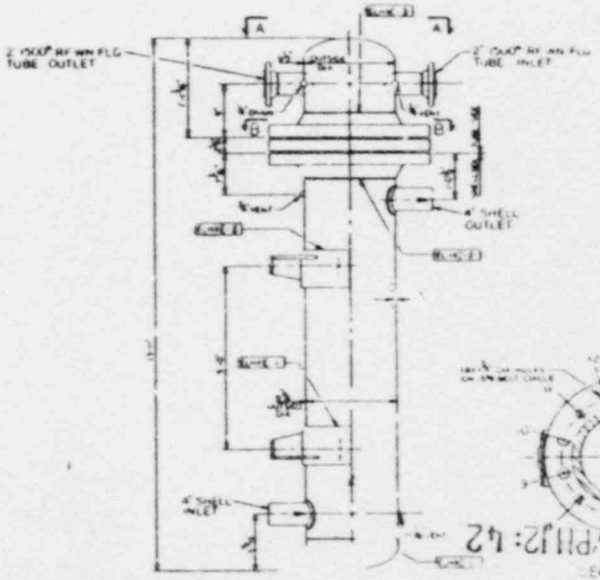
VIEW A-A



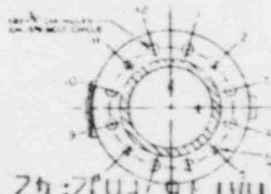
ELEVATION
EXCESS LETDOWN HEAT EXCHANGER
NO ICV01AA

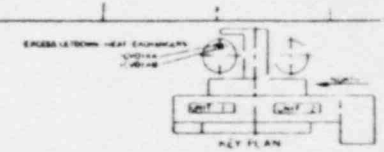


SECTION B-B



ELEVATION
EXCESS LETDOWN HEAT EXCHANGER
NO ICV01AB



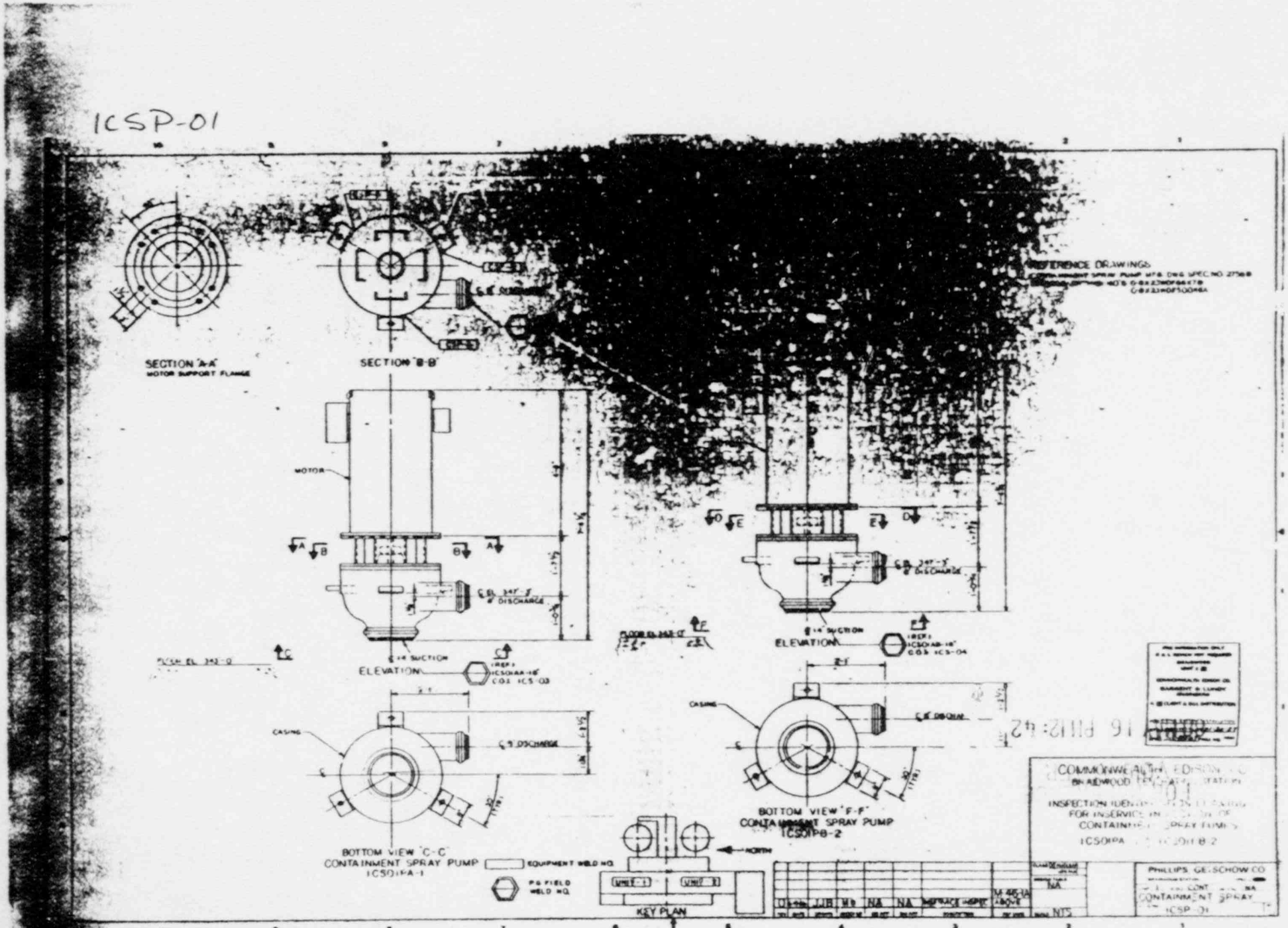


KEY PLAN

COMMONWEALTH EDISON
BYRON/WOOD GENERATING STATION
INSPECTION IDENTIFICATION DWG FOR
INSERVICE INSPECTION
FOR EXCESS LETDOWN HEAT EXCHANGER
NO ICV01AA & ICV01AB

PHILLIPS GETSCHOW CO

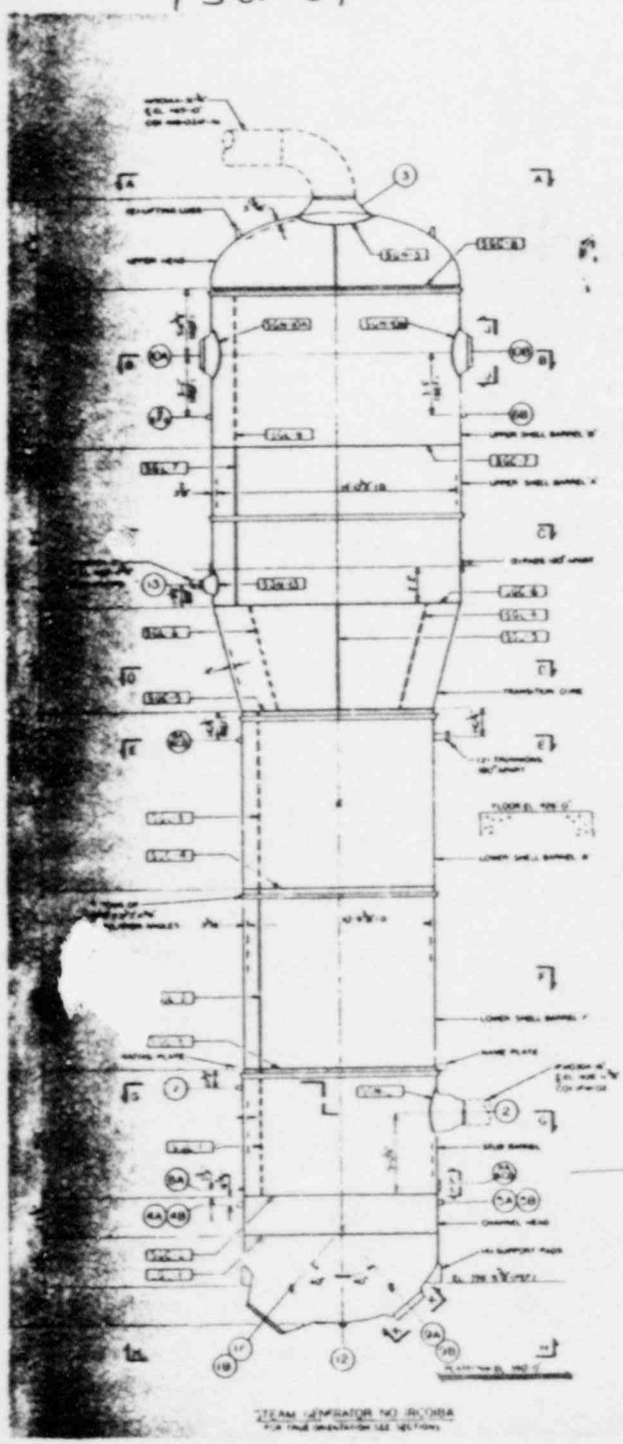
ICSP-01

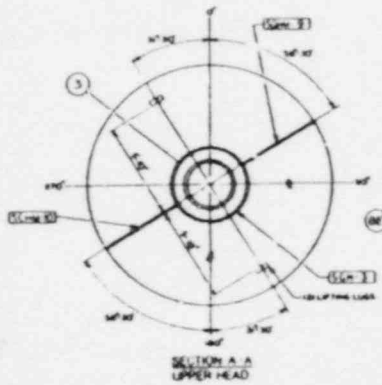

SECTION 'A-A'
MOTOR SUPPORT FLANGE
SECTION 'B-B'
MOTOR
ELEVATION
BOTTOM VIEW 'C-C'
CONTAINMENT SPRAY PUMP
1CS01PA-1
ELEVATION
BOTTOM VIEW 'F-F'
CONTAINMENT SPRAY PUMP
1CS01PB-2
EQUIPMENT WELD NO.
FIELD WELD NO.
KEY PLAN
NORTH
REFERENCE DRAWINGS
COMMONWEALTH EDISON CO
BRAIDWOOD STATION
INSERVICE INSPECTION
CONTAINMENT SPRAY PUMPS
1CS01PA-1, 1CS01PB-2
PHILLIPS GE/SCHOW CO
CONTAINMENT SPRAY
1CSP-01

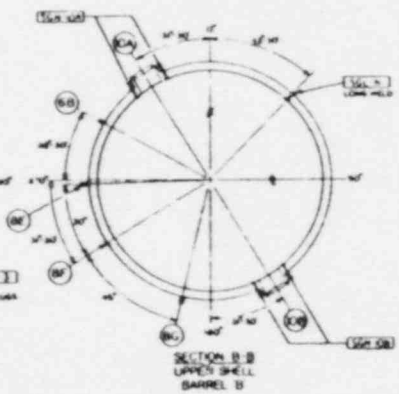
IPZR-01

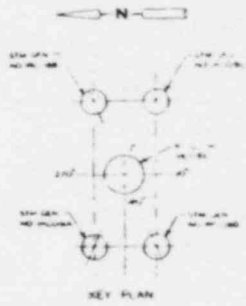
ELEVATION
PRESSURIZER NO. 4105
BOTTOM VIEW G-G
SECTION D-D
TOP VIEW A-A
SECTION E-E
SECTION B-B
VIEW H-H
SECTION C-C
BOTTOM VIEW F-F
ENLARGED BOTTOM VIEW OF IMMERSION HEATERS
88 MAY 16 PM 2:42

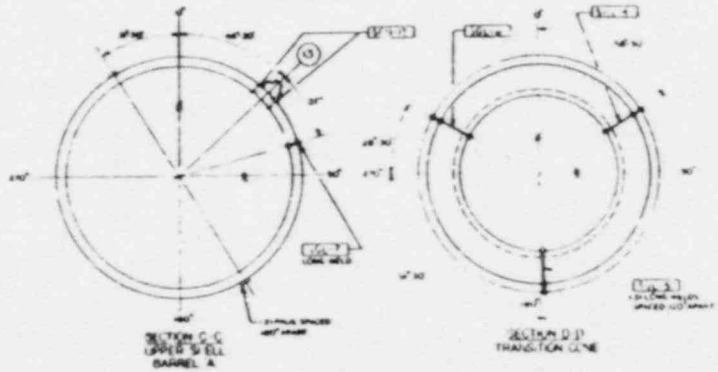
1SG-01

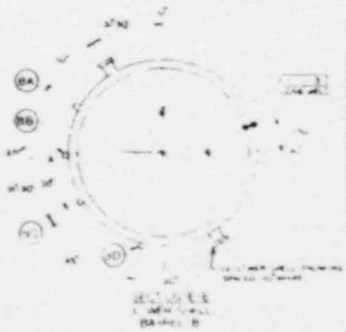


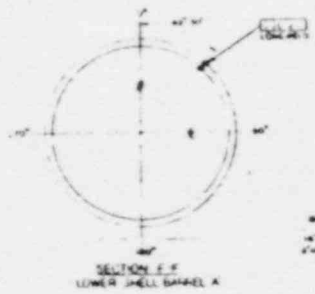


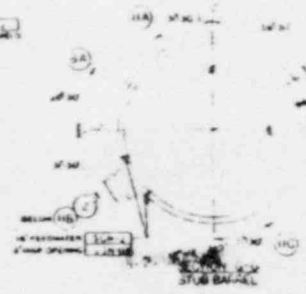


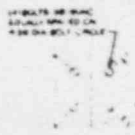




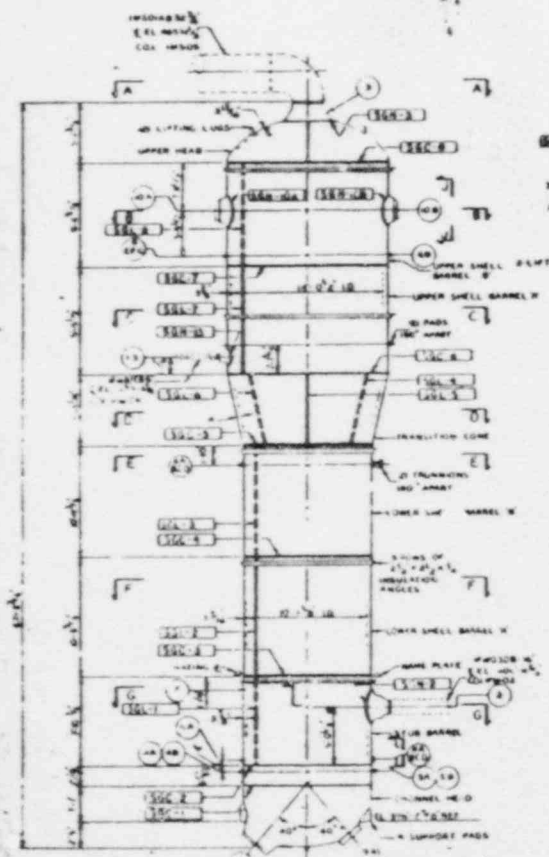


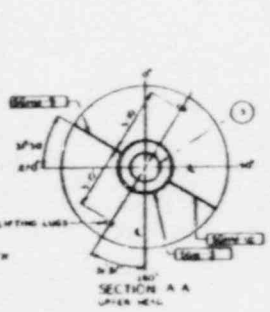




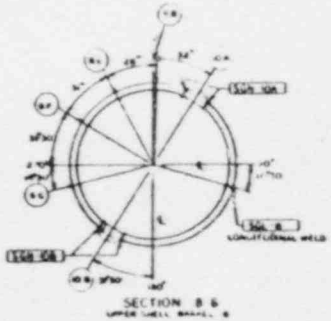


1SG-02

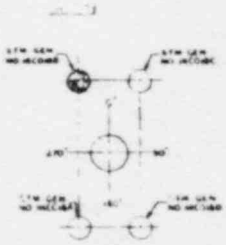




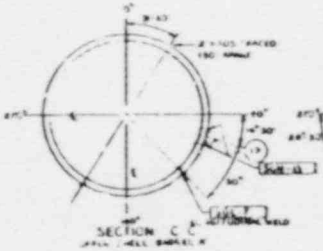
SECTION A A



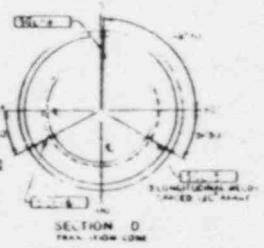
SECTION B B



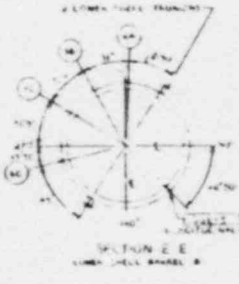
KEY PLAN



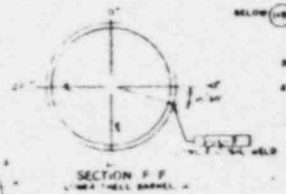
SECTION C C



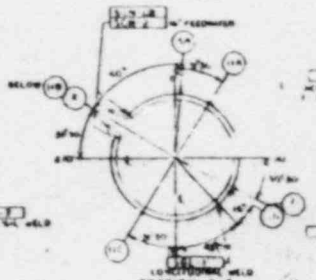
SECTION D



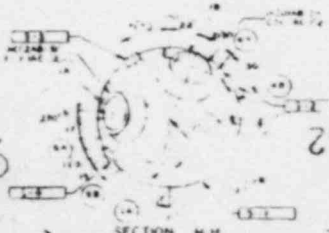
SECTION E E



SECTION F F

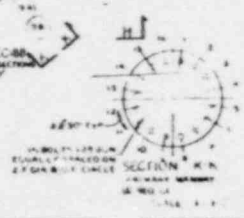


SECTION G G

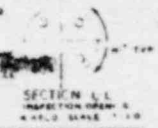


SECTION H H

SECTION



SECTION K K



SECTION L L

NOZZLE TABULATION

REFERENCE DRAWING

NOTES

SYMBOL DESIGNATION

STEAM GENERATOR

COMMONWEALTH EDISON

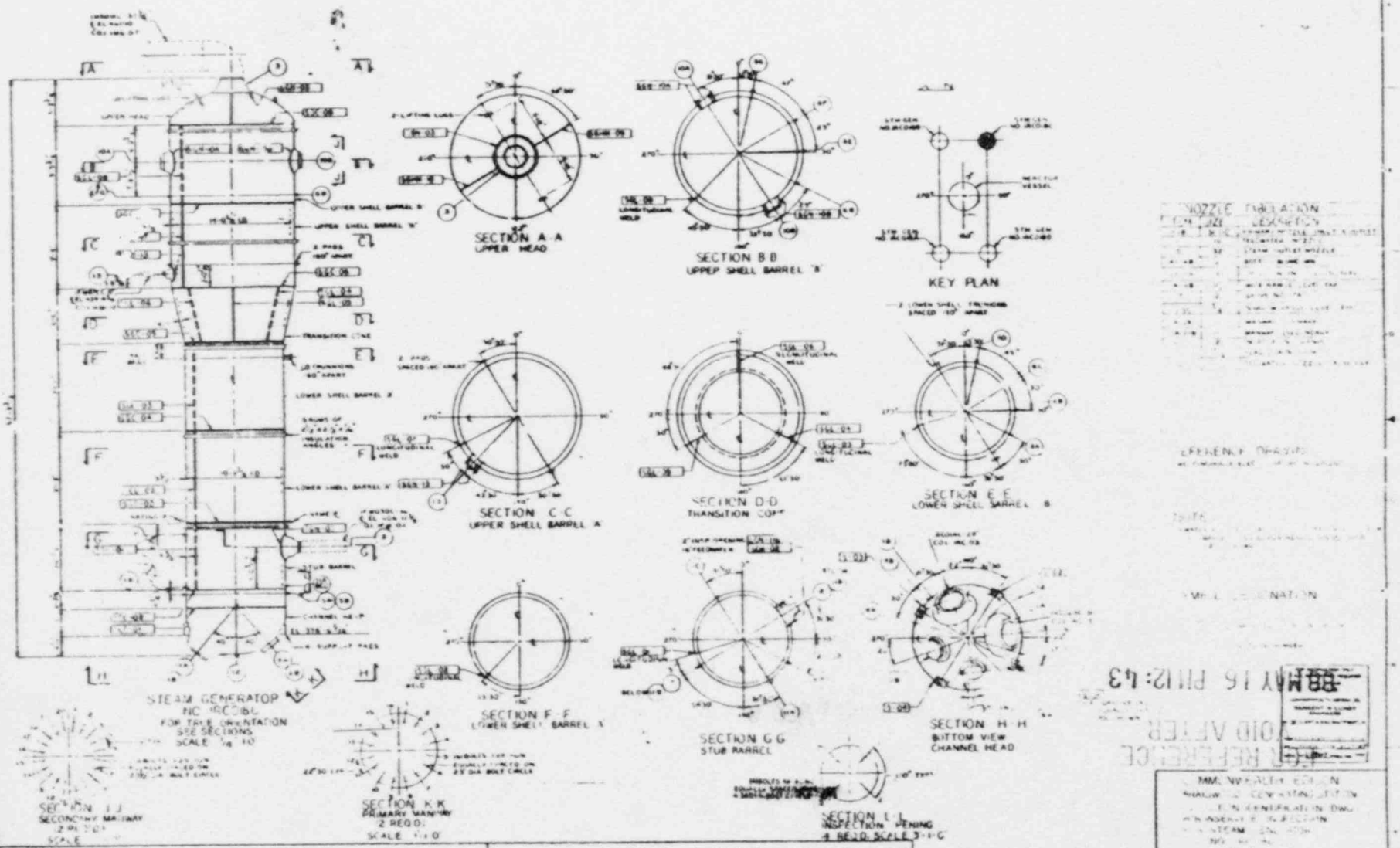
PHILLIPS GETSCHOW CO

88 MAY 16 P12:42

VOID AFTER

FOR REFERENCE

1SG-03



NOZZLE ENCLOSURE

REFERENCE DRAWING

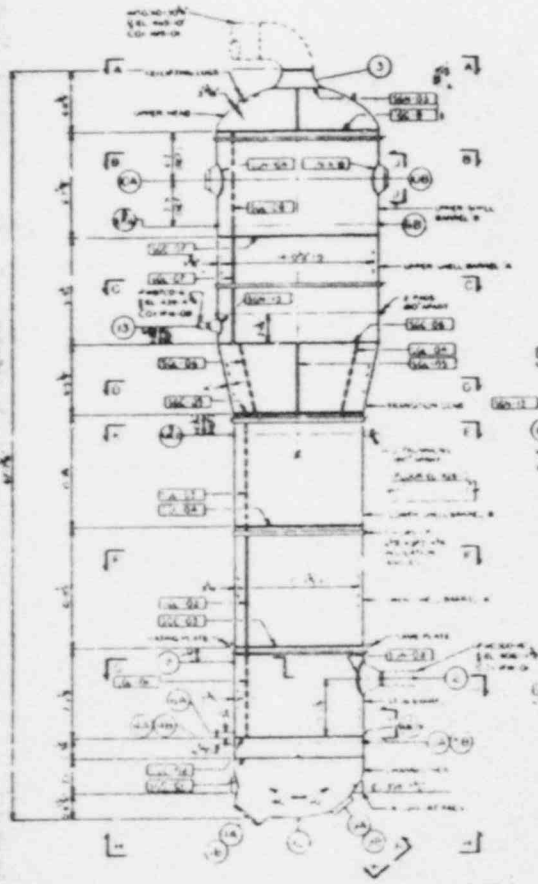
DATE

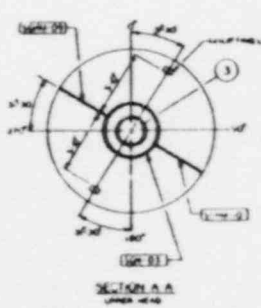
WELD DESIGNATION

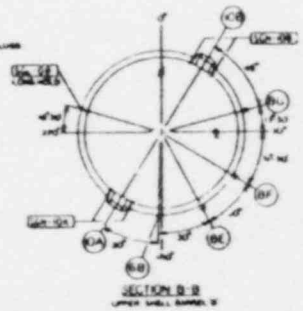
MM. WEALTH EDISON

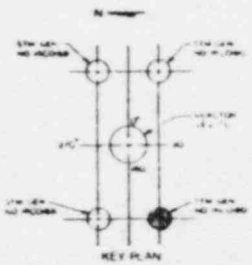
1988 MAY 16 PM 12:43

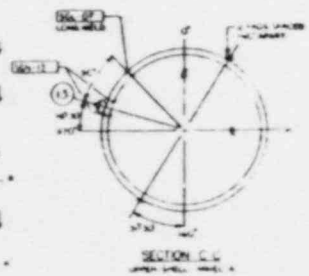
ISG-04

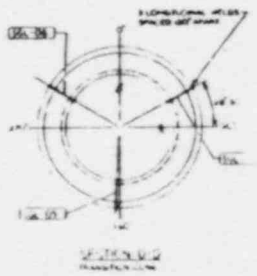


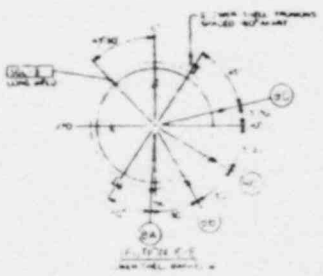


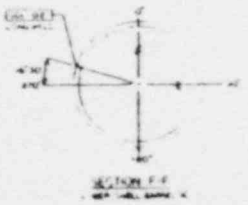


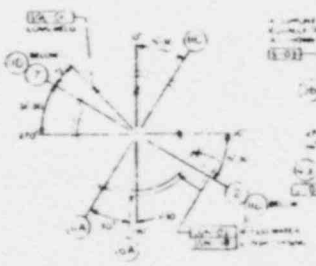


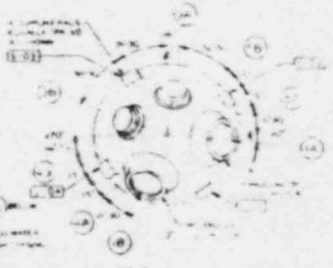


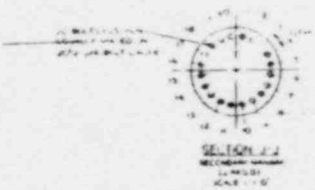


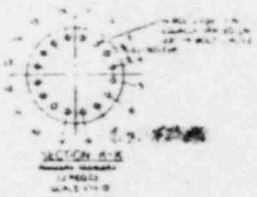


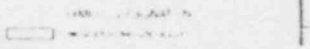


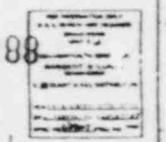


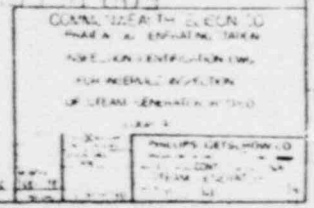






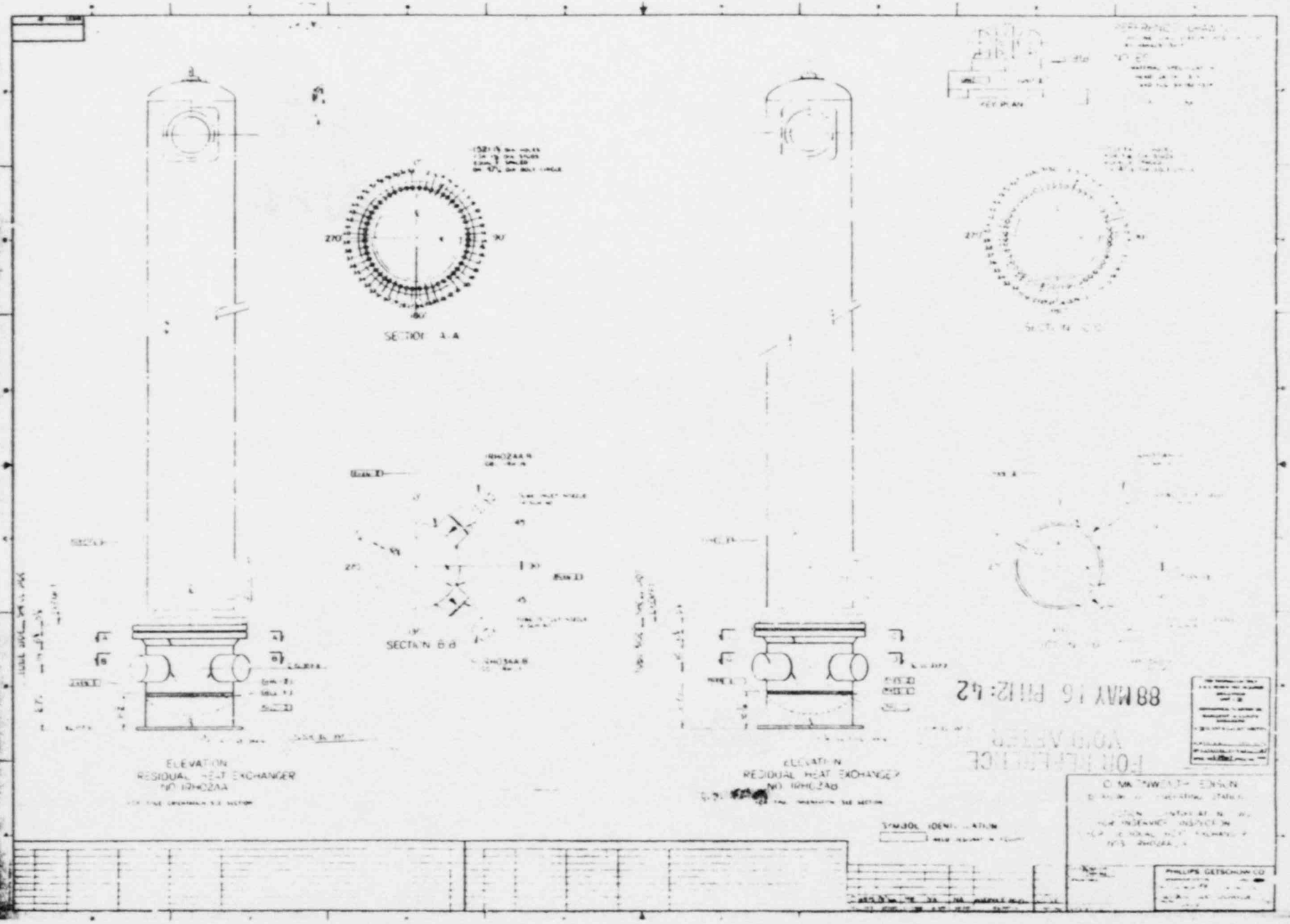




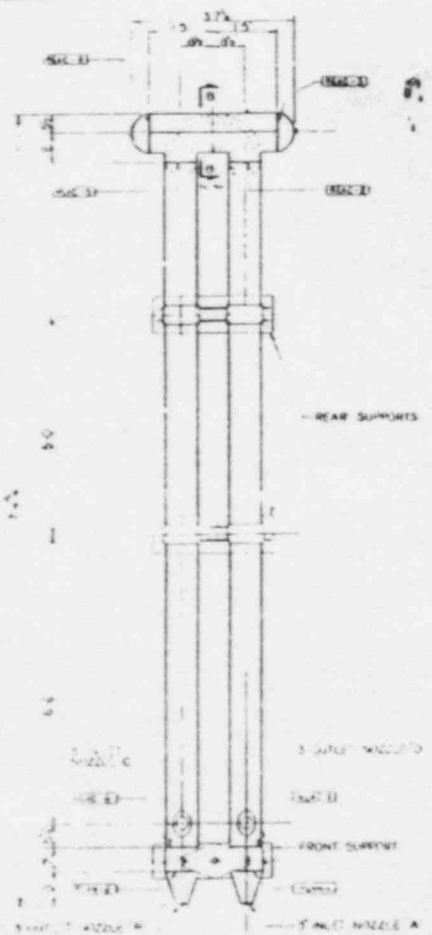


88MAY 16 PM12:43

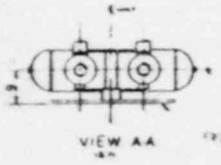
1RHX-01

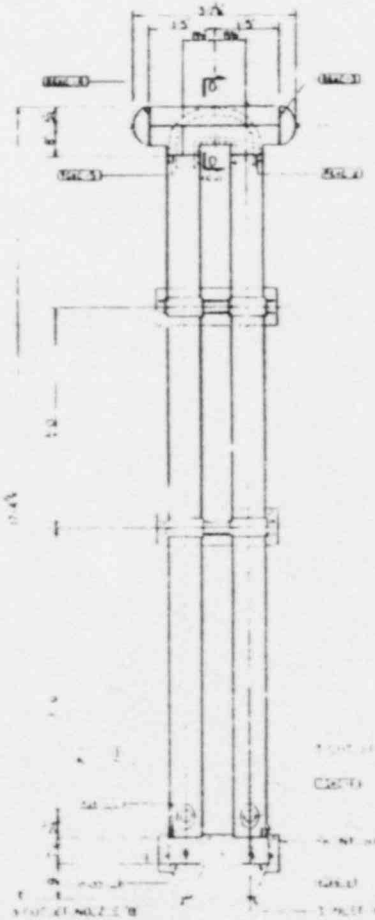

SECTION A-A
SECTION B-B
ELEVATION
RESIDUAL HEAT EXCHANGER
NO. 1RHX2AA
ELEVATION
RESIDUAL HEAT EXCHANGER
NO. 1RHX2AB
88 MAY 16 P1:42

IRGX-01



PLAN VIEW
REGENERATIVE HEAT EXCHANGER
NO. IGVO3AA





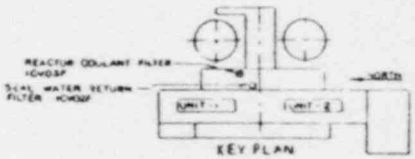
PLAN VIEW
REGENERATIVE HEAT EXCHANGER
NO. IGVO3AB

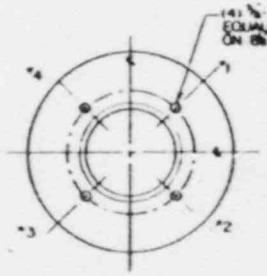
88MAY 15 RM 8:42

IDENTIFICATION

PHILLIPS GETSCHOW CO

1SWF-01



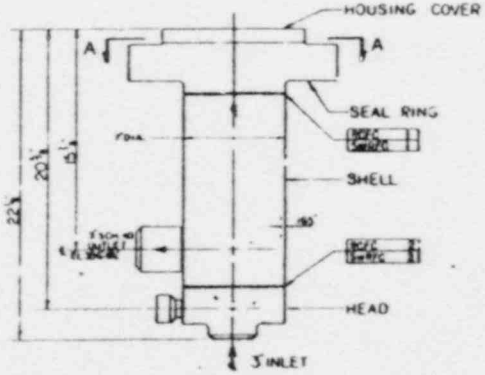


SECTION A-A

NOTE: FOR DESIGNATION # STUD BOLTS INSERT (RCFB1) FOR REACTOR COOLANT FILTER AND (SWFB1) FOR SEAL WATER RETURN FILTER IN PLACE OF THE (N) ASTERISKS PRECEDING THE BOLT NUMBER

REFERENCE DRAWING

NOTES:



ELEVATION
REACTOR COOLANT FILTER NO ICV03F &
SEAL WATER RETUPN FILTER NO ICV02F
SCALE 1-1"

SYMBOL IDENTIFICATION

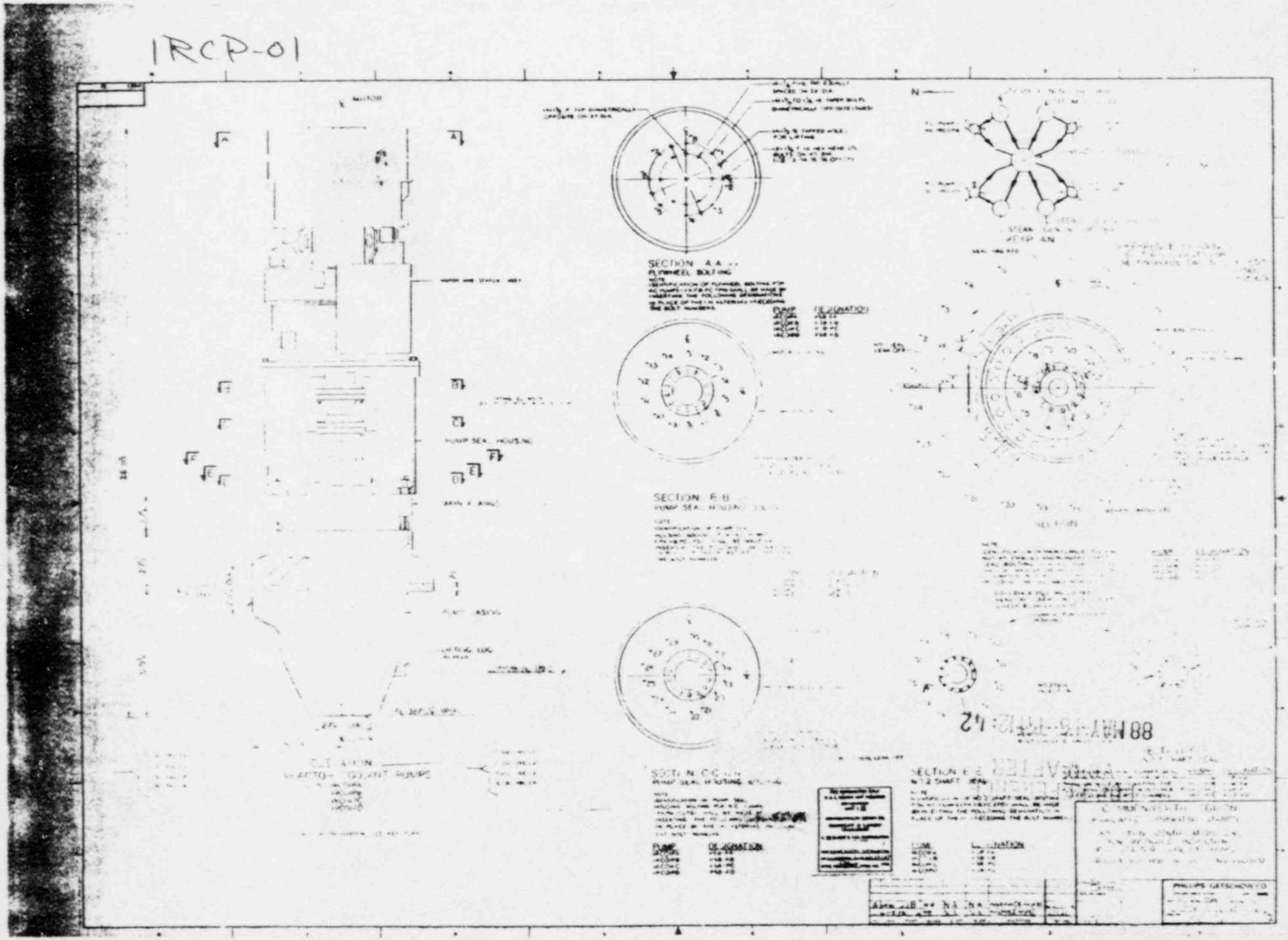
88 MAY 15 P12:43

COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSPECTION IDENTIFICATION DWG
FOR INSERVICE INSPECTION
FOR REACTOR COOLANT FILTER ICV03F
SEAL WATER RETURN FILTER ICV02F

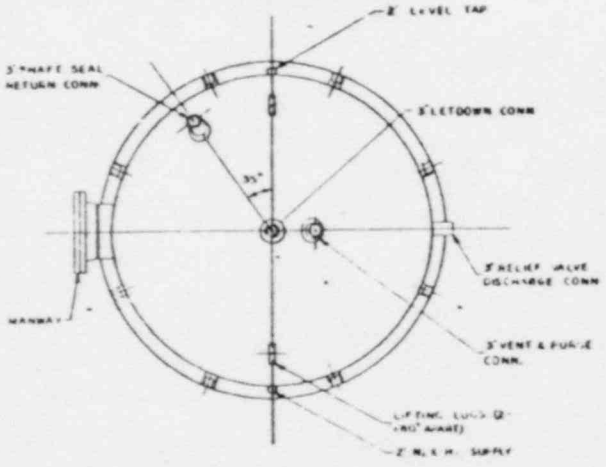
PHILLIPS, GETSCHOW CO

1SWF-01

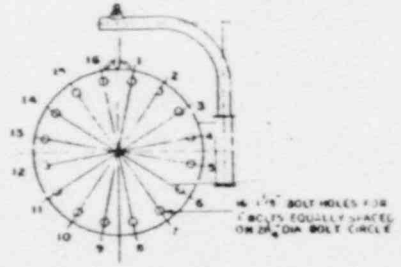
1RCP-01


SECTION A-A
FLYWHEEL BOLTING
SECTION B-B
PUMP SEAL HOUSING BOLTING
SECTION C-C
PUMP SEAL HOUSING BOLTING
SECTION E-E
N°2 SHAFT SEAL
PUMP SEAL HOUSING
MAIN X AXIS
LIFTING LUG
PHILLIPS GETSCHOW CO.

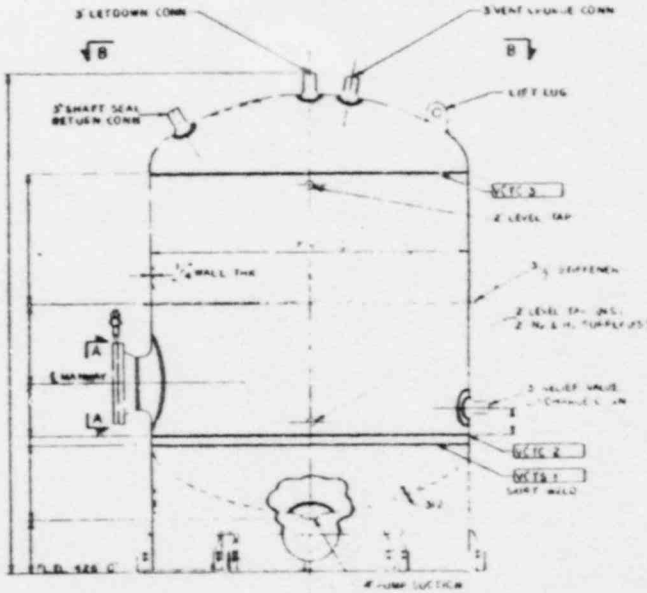
IVCT-01



SECTION B-B



SECTION A-A



NOTES

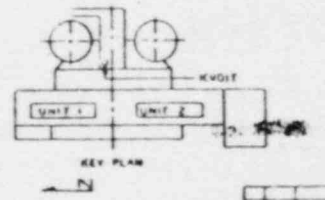
1. MATERIAL SPECIFICATION: VOLUME CONTROL TANK SA 240 TYPE 304

SYMBOL IDENTIFICATION

WELD DESIGNATION (SHOP)

VOLUME CONTROL TANK ICVOIT

SCALE 3/4" = 1'-0"



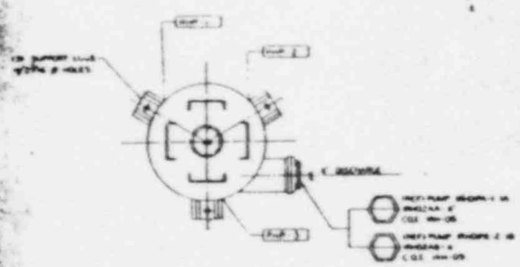
88MAY 16 PM12:43

COMMONWEALTH EDISON
BRAIDWOOD NUCLEAR POWER STATION
UNIT 2
INSPECTION ELEVATION
FOR INSERVICE INSPECTION
VOLUME CONTROL TANK
AUX. BLDG.

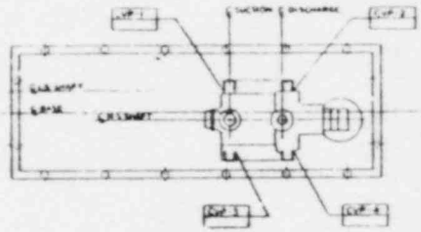
PHILLIPS CUTSCHALL CO.

IVCT-01

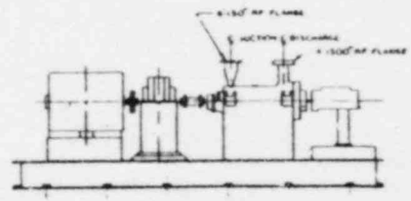
IRHP-01



SECTION A-A

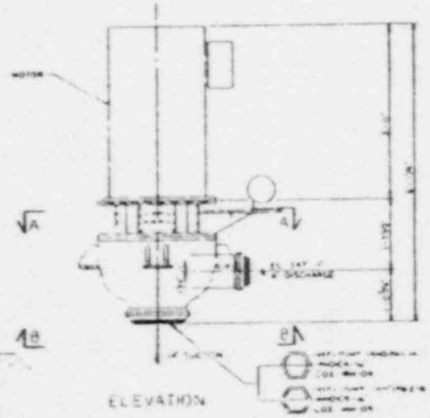


PLAN

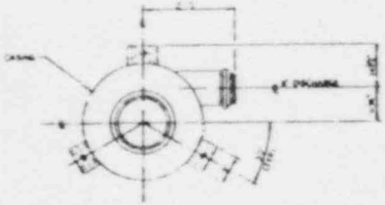


ELEVATION
CHARGING PUMPS
ICV01PA & ICV01PB

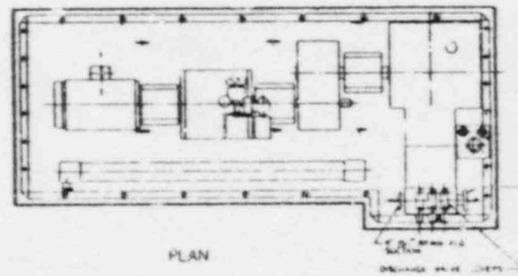
REFERENCE DRAWINGS



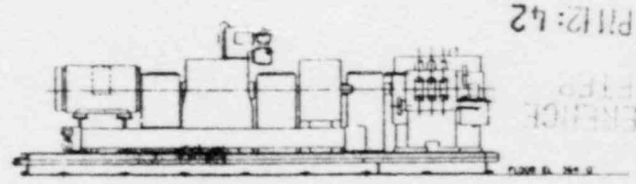
ELEVATION



BOTTOM VIEW B-B



PLAN



ELEVATION

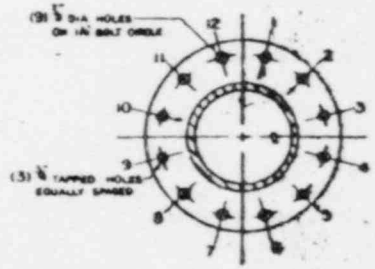
CHARGING PUMP NO. ICV02P

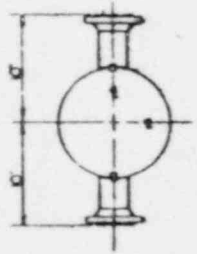
SYMBOL DESIGNATION

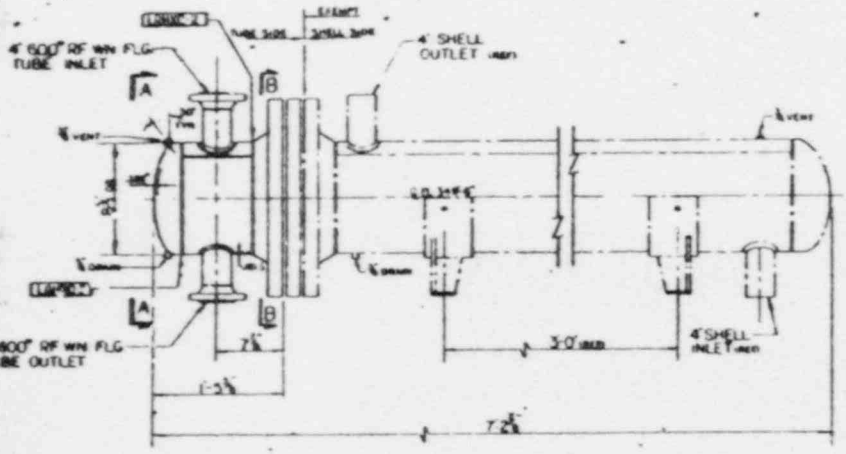
88 MAY 16 PM 12:42

FOR REFERENCE
NOT TO BE

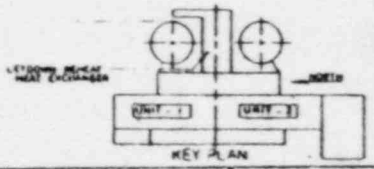
1LRHX-01







ELEVATION
LETDOWN REHEAT HEAT EXCHANGER
NO. 1CV05A



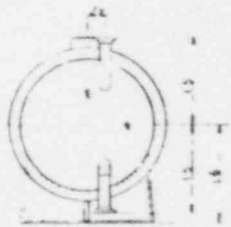
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSPECTION IDENTIFICATION DWG. FOR INSERVICE INSPECTION OF LETDOWN REHEAT HEAT EXCHANGER
NO. 1CV05A

PHILLIPS, GETSCHOW CO.

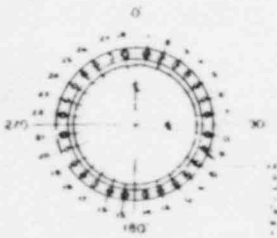
1LRHX-01

88 MAY 16 P1:42

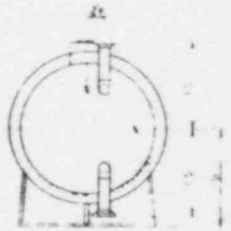
1CHX-01



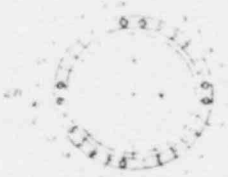
VIEW A-A



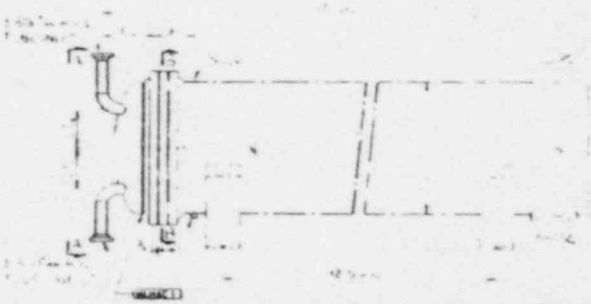
SECTION B-B



VIEW A-A



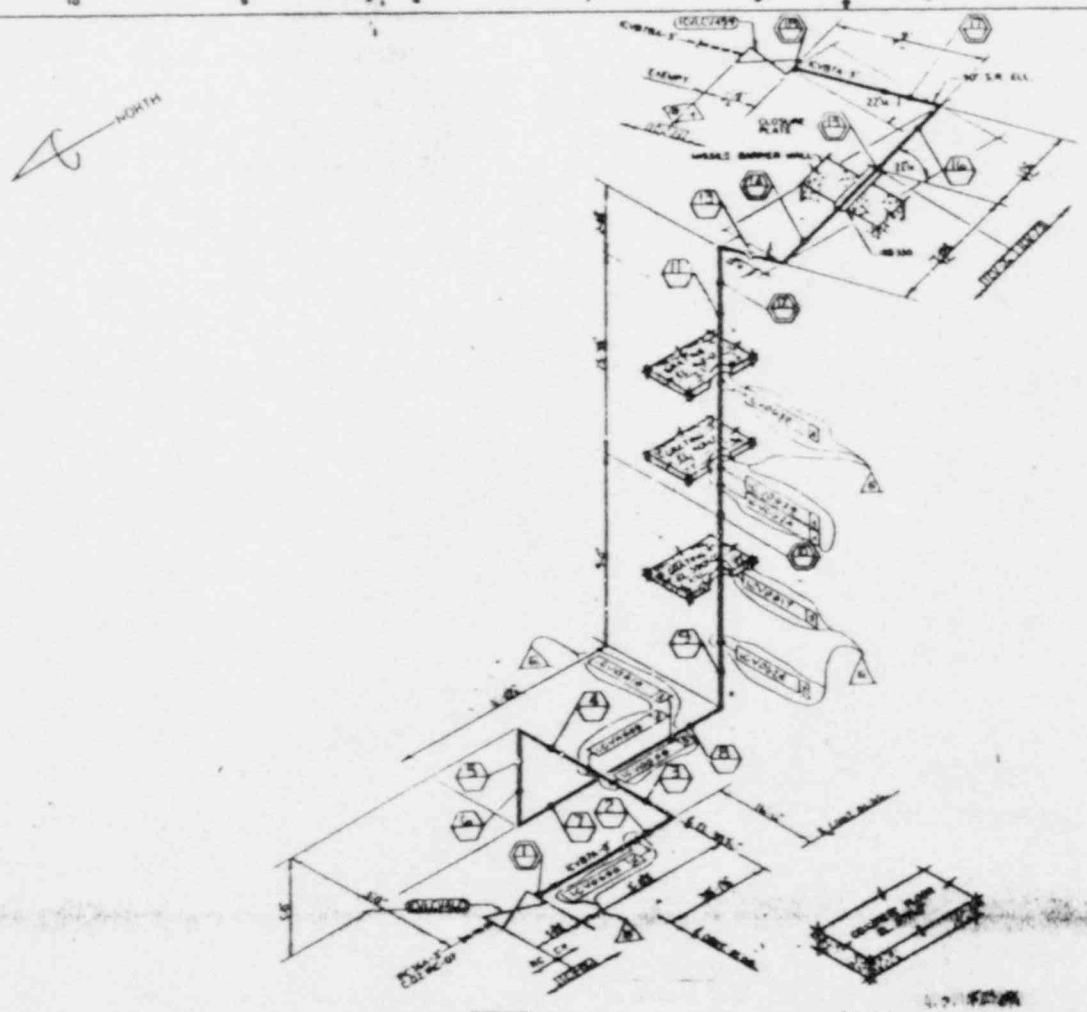
HORIZONTAL



HORIZONTAL

88 MAY 16 P1:42

1CV-01



VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT SIZE	BOLT TYPE	VALVE MANUF.	NUT DWG. NO.
1CV8439	GATE	8	1	SA193 GR B7	COPES VULCAN	D 166077
1CV8440	"	"	"	"	"	"
1CV8441	"	"	"	"	"	"
1CV8442	"	"	"	"	"	"
1CV8443	"	"	"	"	"	"
1CV8444	"	"	"	"	"	"

SUPPORT NO.
FLANGE BOLT-UP NO.
VALVE NO.
FIELD WELD NO.

KEY PLAN

REVISIONS				

88 MAY 16 PM 12:11

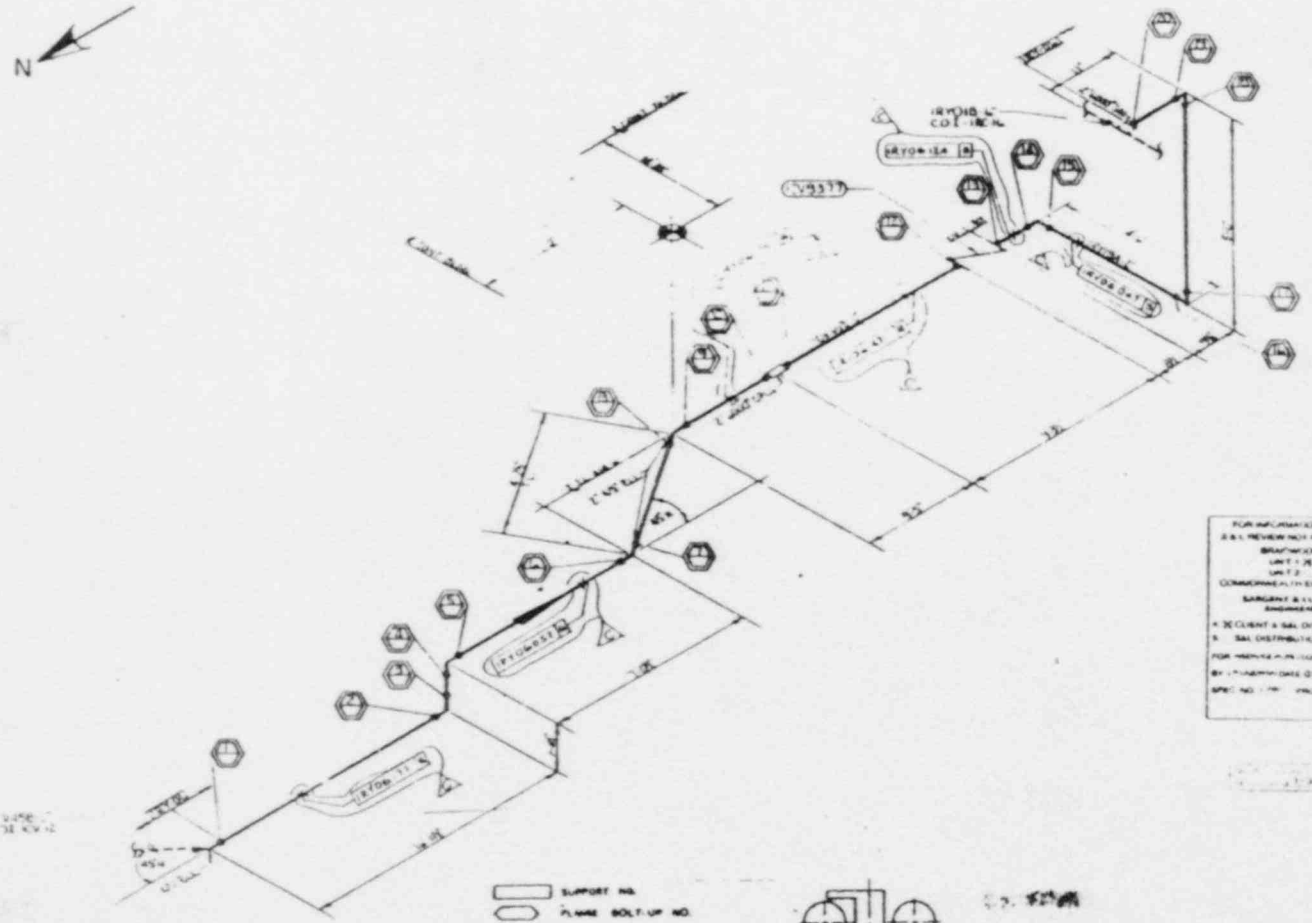
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF CHEMICAL AND
VOLUME CONTROL LINE
1CV07A-3

INSIDE CONTAINMENT CODE 3

PHILLIPS GETSCHOW

1CV-02

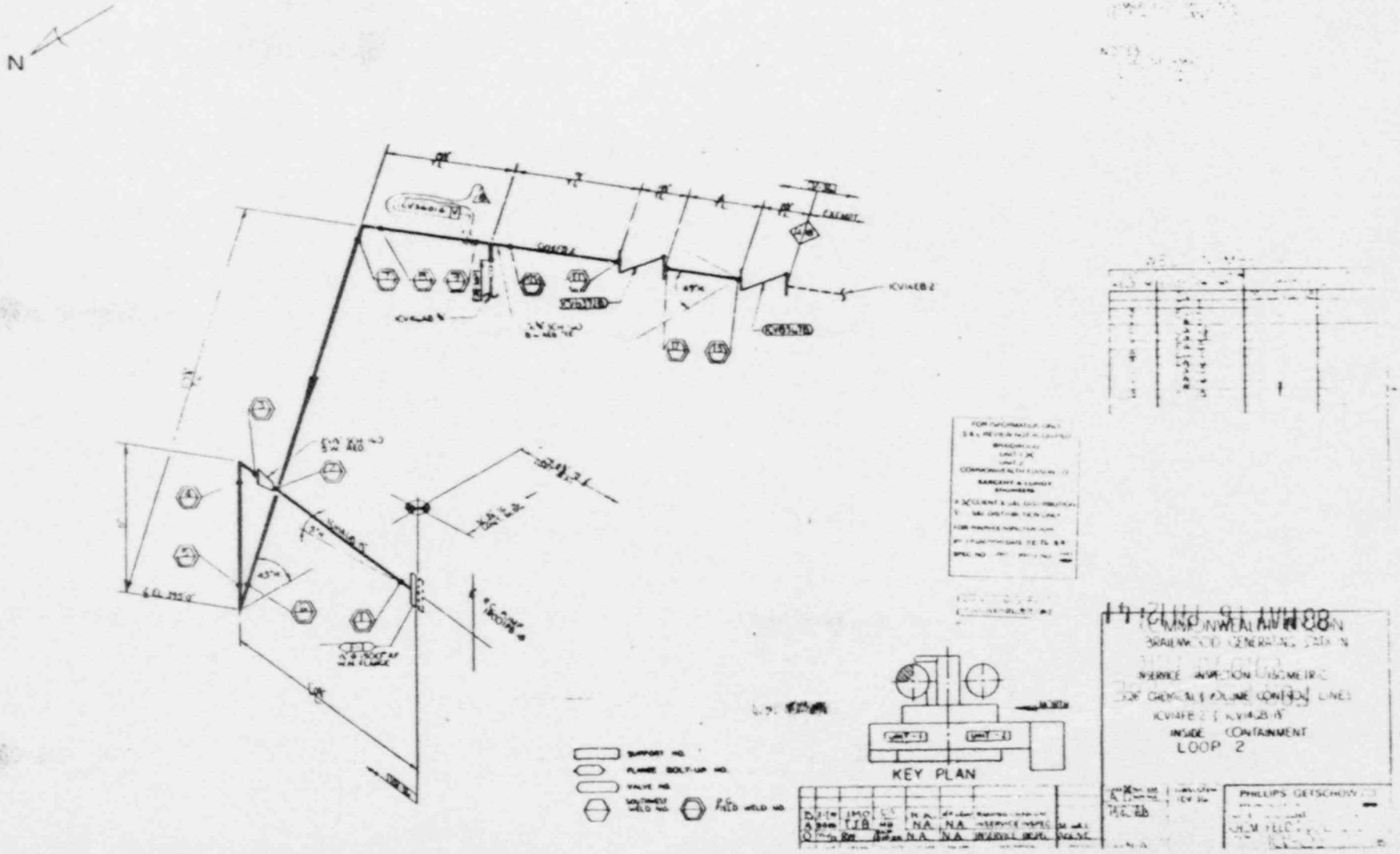


COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINE &
CHEMICAL & VOLUME CONTROL LINE
IRY19A 2" 1CV458 2"
INSIDE CONTAINMENT

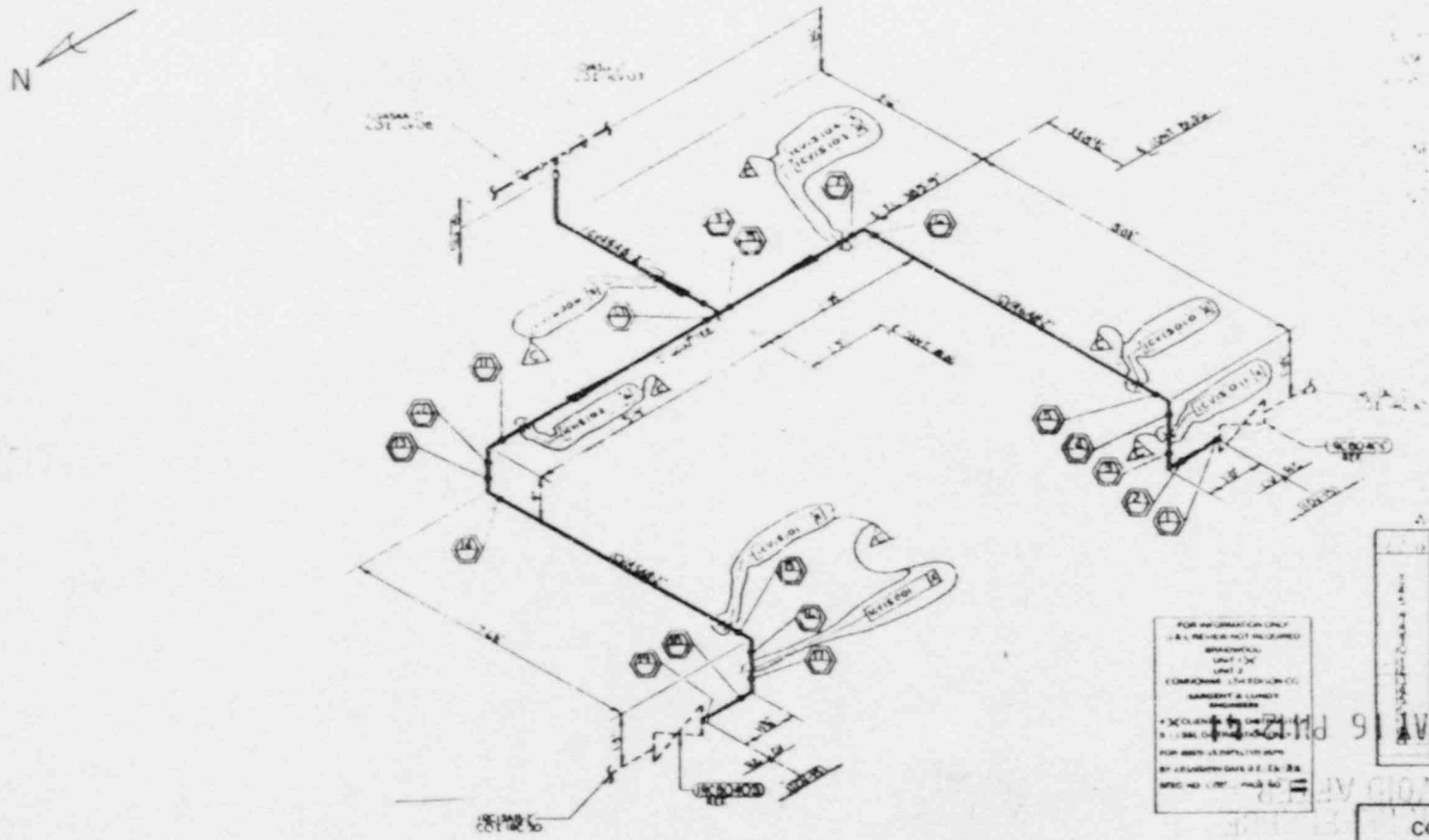
PHILLIPS GETSCHOW CO

88 MAY 16 P1:12:41

ICV-03



ICV-04.



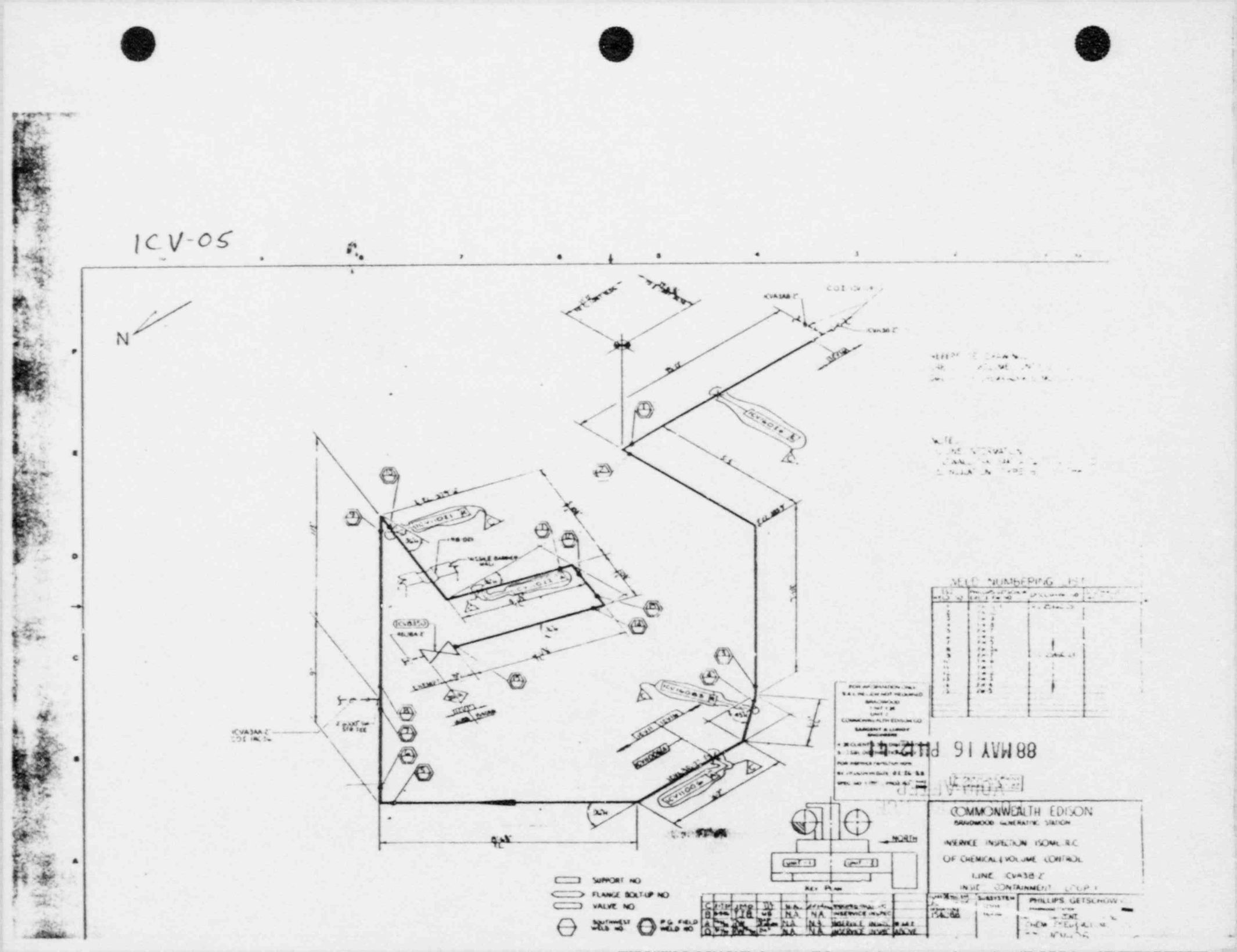
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION

IN-SERVICE INSPECTION ISOMETRIC
OF CHEMICAL & VOLUME CONTROL
LINE ICVASAB-2, ICVA6AB-2
INSIDE CONTAINMENT
LOOPS 2&3

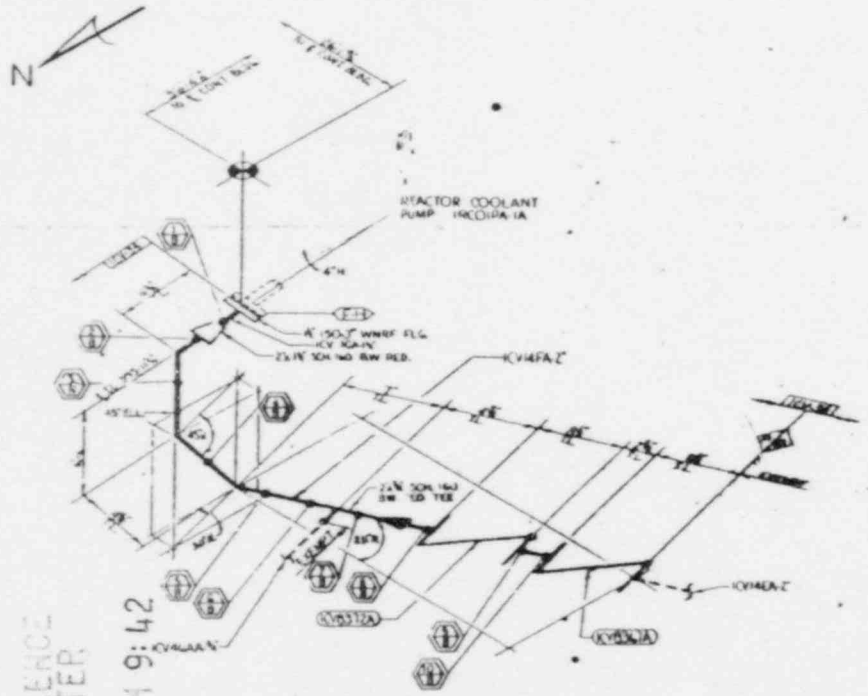
PHILLIPS GETSCHOW CO.

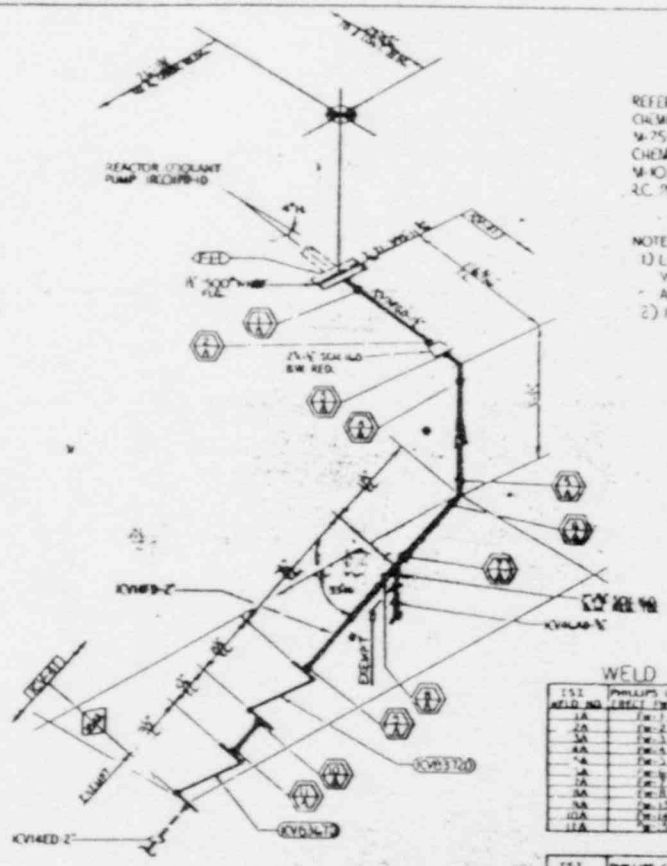
KV-15

ICV-05


N
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF CHEMICAL & VOLUME CONTROL
LINE 1CVA38-2
INSIDE CONTAINMENT
PHILLIPS GETSCHOW
SUPPORT NO
FLANGE BOLT-UP NO
VALVE NO
SHOP WELD NO
F.G. FIELD WELD NO
NORTH
KEY PLAN
WELD NUMBERING
88 MAY 16

ICV-06





REFERENCE DRAWINGS:
CHEMICAL & VOLUME CONTROL PIPING ISO
M-25466 SH 1 & 2
CHEMICAL & VOLUME CONTROL PIPING DIA
M-1017 SH 1 & 2
RC PUMPS 1RCP01A, 1RCP01D SCH 1

NOTES:
1) LINE INFORMATION
WALL THK 2" SCH 160
ASME SA-376 GR TP 304 CL 1
2) INSULATION - NONE

FOR REFERENCE
VOID AFTER

SUPPORT NO.
FLANGE BOLT-UP NO.
VALVE NO.
SOUTHWEST WELD NO.
P.G. FIELD WELD NO.

KEY PLAN

NORTH

WELD NUMBERING LIST

ISI WELD NO	PHILLIPS GETSCHOW FIELD WELD NO	SPOOL MARK NO	SOUTHWEST WELD NO
1A	FW-1	25-25SPEC 86	
1A	FW-2		
2A	FW-3		
3A	FW-4		
4A	FW-5		
5A	FW-6		
6A	FW-7		
7A	FW-8		
8A	FW-9		
9A	FW-10		
10A	FW-11		
11A	FW-12		

ICV14GD-1½"
ICV14FD-2"

ISI WELD NO	PHILLIPS GETSCHOW FIELD WELD NO	SPOOL MARK NO	SOUTHWEST WELD NO
1B	FW-1	25-25SPEC 86	
2B	FW-2		
3B	FW-3		
4B	FW-4		
5B	FW-5		
6B	FW-6		
7B	FW-7		
8B	FW-8		
9B	FW-9		
10B	FW-10		
11B	FW-11		

REV	DATE	DRAWN	CHECKED	QC APP	MK APP	DESCRIPTION	REMARKS
B	[illegible]	TJB	MB	N.A.	N.A.	INSERVICE INSPEC	
A	[illegible]	RW	[illegible]	N.A.	N.A.	INSERVICE INSPEC	
0	[illegible]	RW	DAP	N.A.	N.A.	INSERVICE INSPEC	AS-BUILT

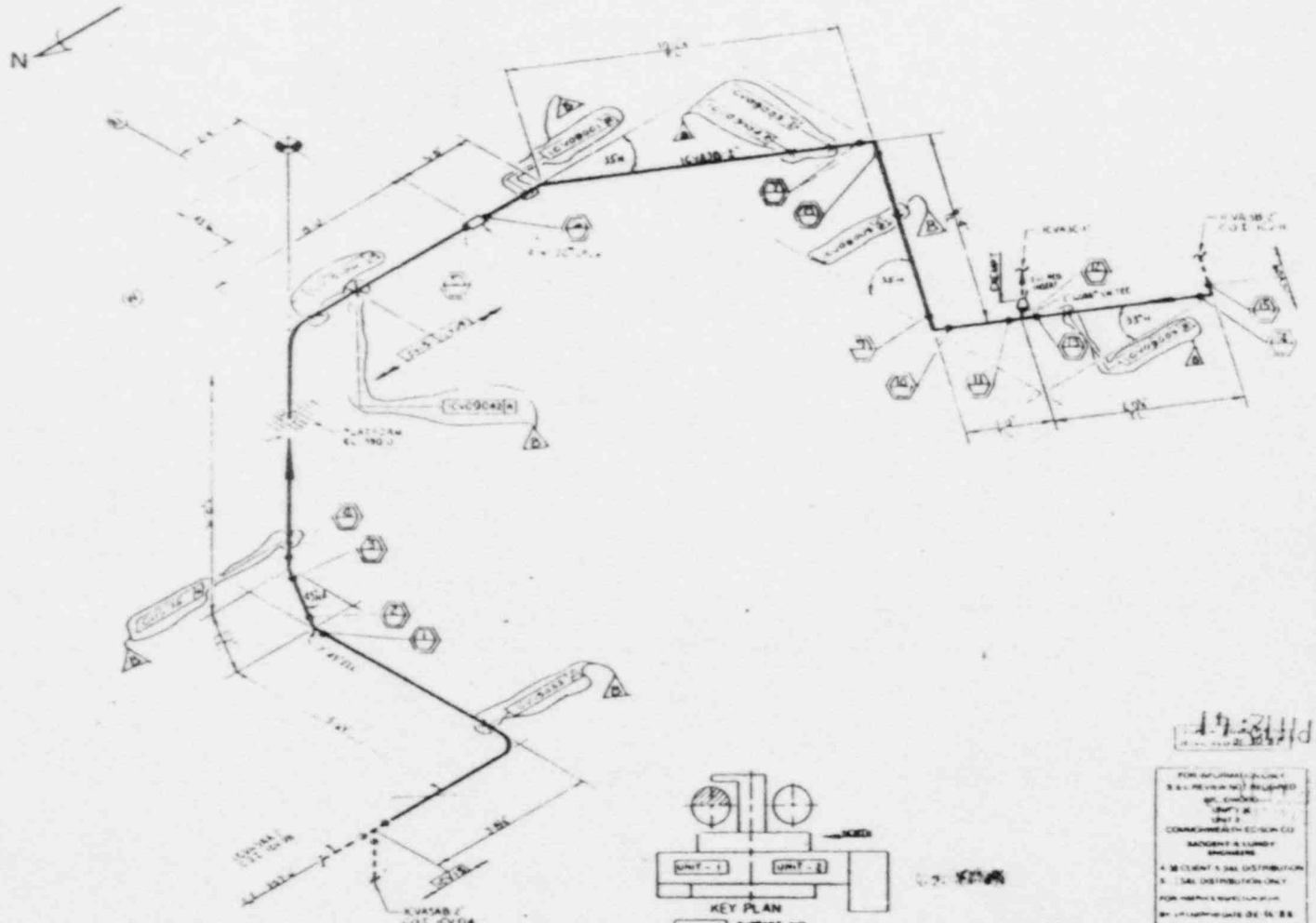
COMMONWEALTH EDISON
WARAMOOD GENERATING STATION
INSERVICE INSPECTION PROGRAM
OF CHEMICAL & VOLUME CONTROL
ICV14FA-2", ICV14FD-2", ICV14GD-1½"
INSIDE CONTAINMENT
LOOPS 1&4

REV	DATE	DRAWN	CHECKED	QC APP	MK APP	DESCRIPTION	REMARKS
A	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

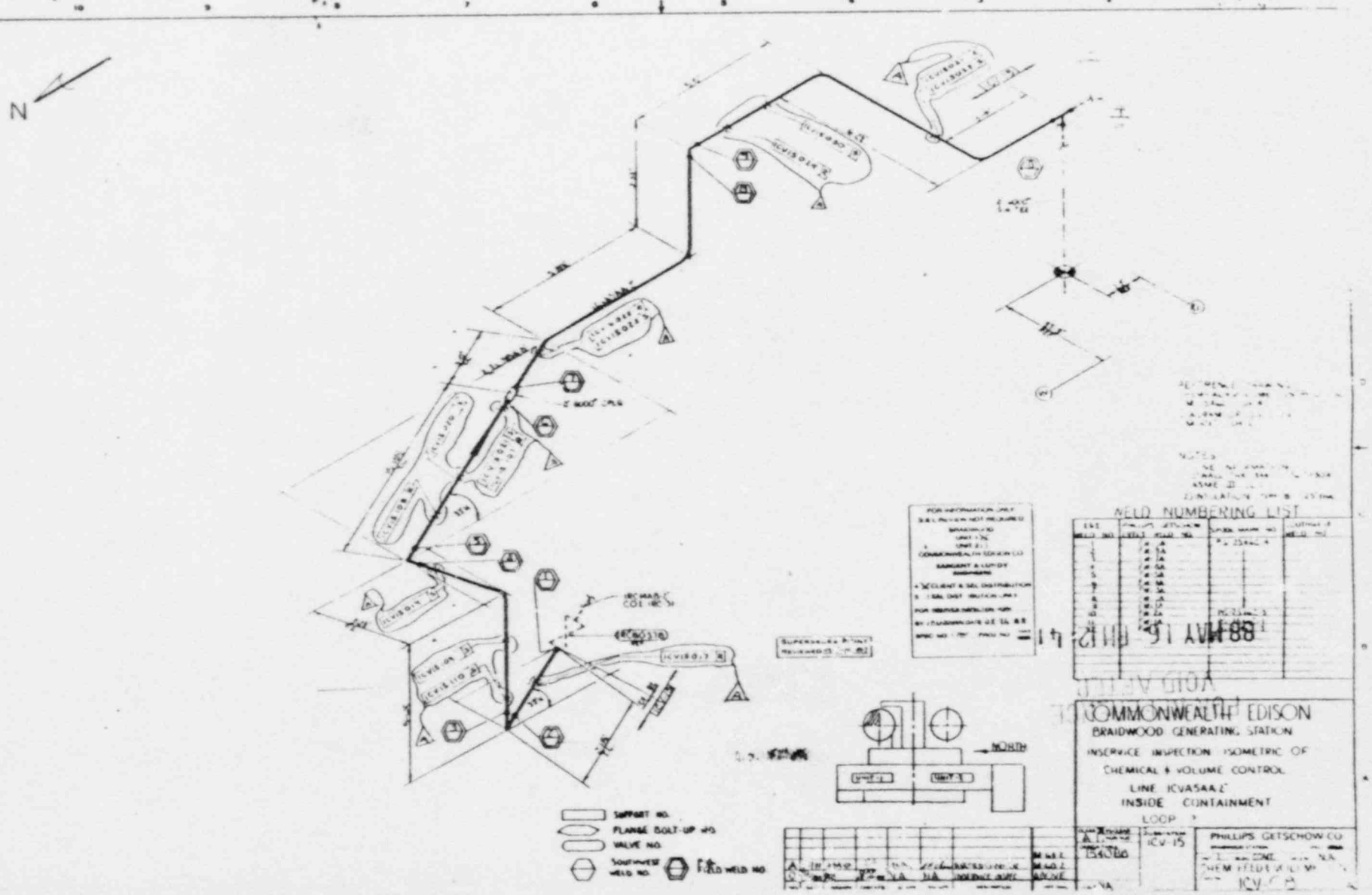
Supersedes ICV-34 ICV-41

PHILLIPS, GETSCHOW CO.
CHEMICAL & VOLUME CONTROL
ICV-06

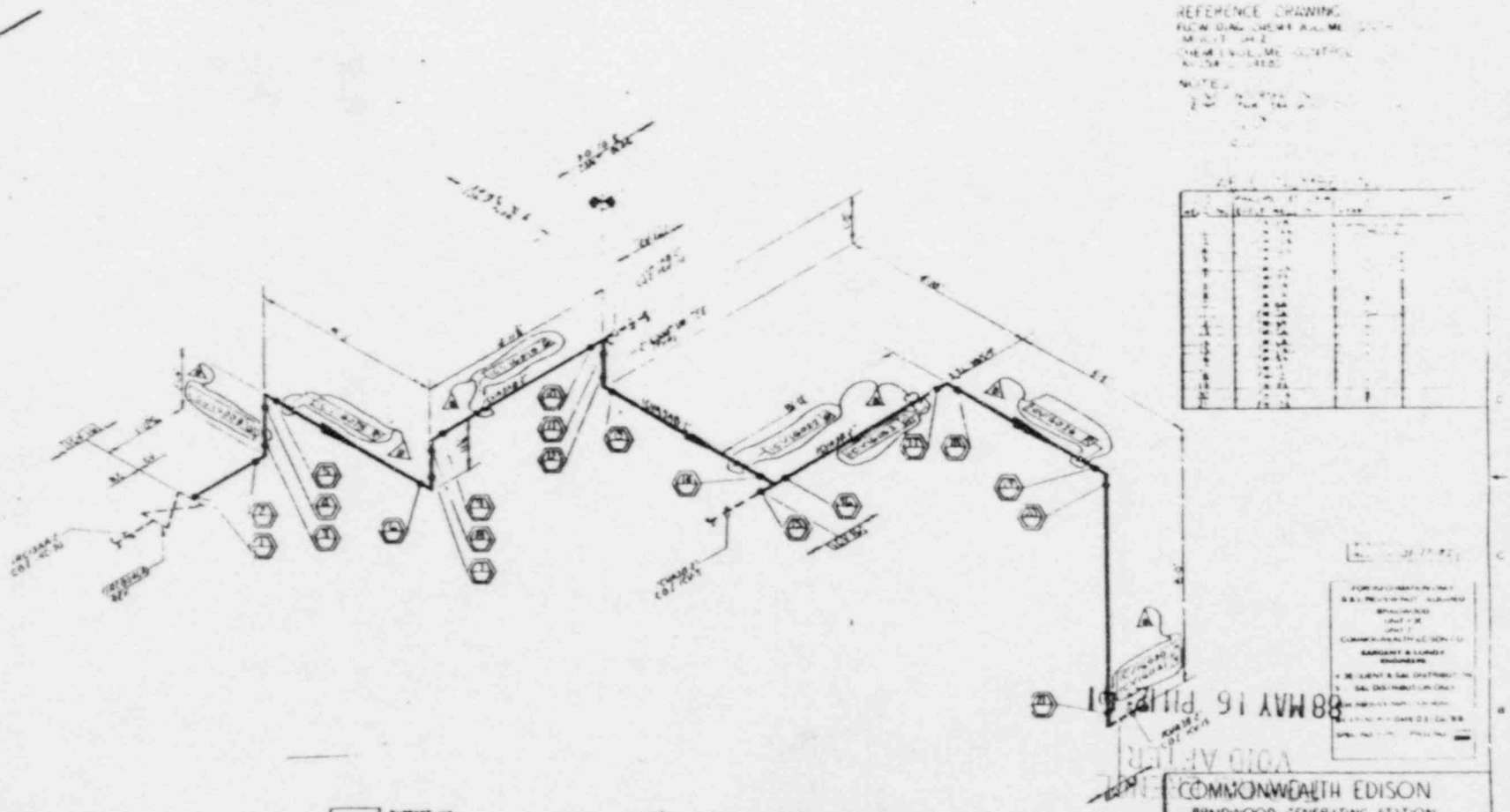
ICV-07


N
KVA58-2
KVA58-1
KVA58-3
KVA58-4
KVA58-5
KVA58-6
KVA58-7
KVA58-8
KVA58-9
KVA58-10
KVA58-11
KVA58-12
KVA58-13
KVA58-14
KVA58-15
KVA58-16
KVA58-17
KVA58-18
KVA58-19
KVA58-20
KVA58-21
KVA58-22
KVA58-23
KVA58-24
KVA58-25
KVA58-26
KVA58-27
KVA58-28
KVA58-29
KVA58-30
KVA58-31
KVA58-32
KVA58-33
KVA58-34
KVA58-35
KVA58-36
KVA58-37
KVA58-38
KVA58-39
KVA58-40
KVA58-41
KVA58-42

ICV-08


N
WELD NUMBERING LIST
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC OF
CHEMICAL & VOLUME CONTROL
LINE 1CVASAA2"
INSIDE CONTAINMENT
LOOP
PHILLIPS GETSCHOW CO
ICV-15
NORTH
SUPPORT NO.
FLANGE BOLT-UP NO.
VALVE NO.
SHOP WELD NO.
FIELD WELD NO.

ICV-09



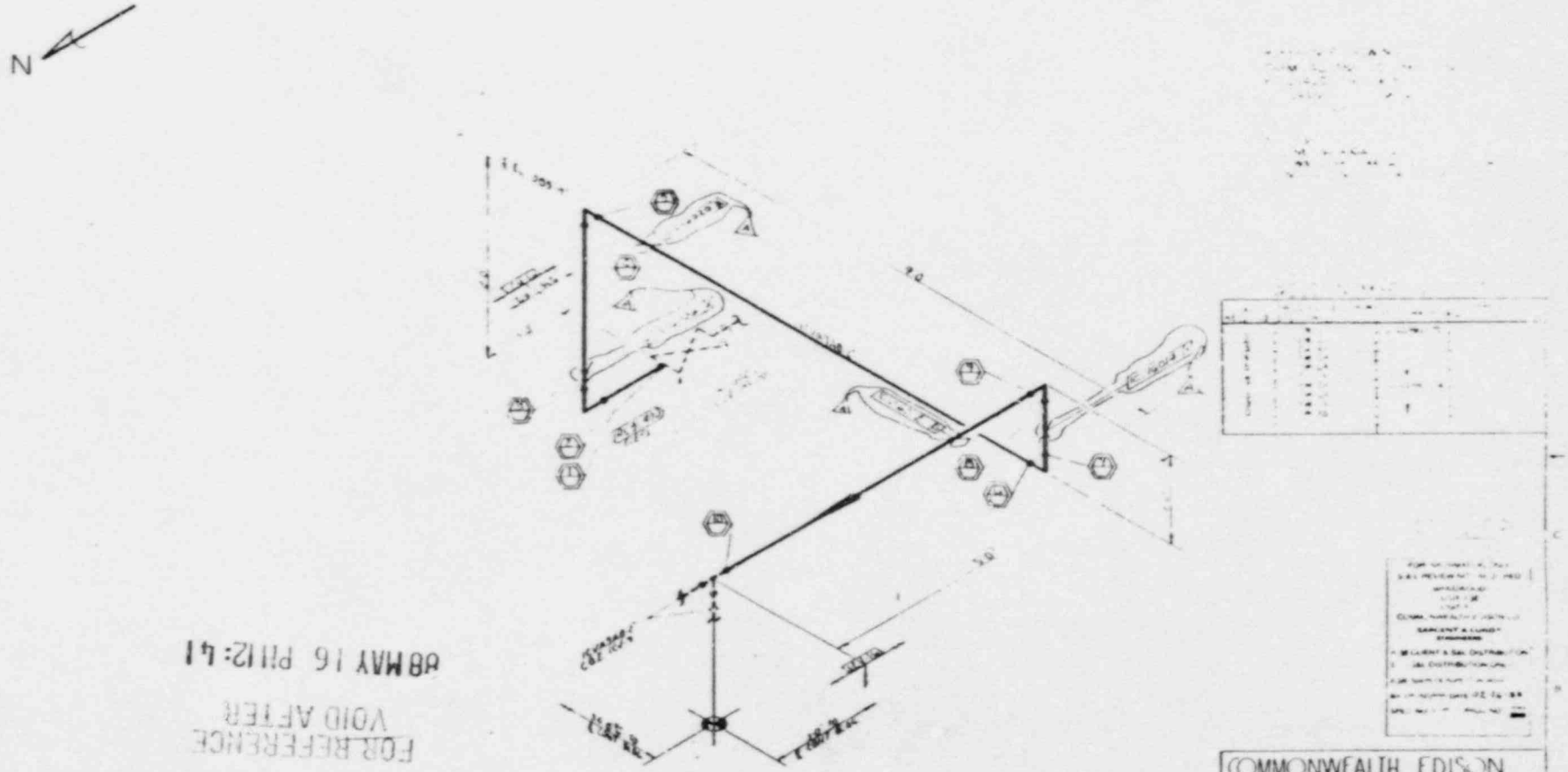
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF CHEMICAL & VOLUME CONTROL LINE
ICVA3AB-2"
ICVA3B-2"
INSIDE CONTAINMENT

SUBSYSTEM ICV-16

PHILLIPS, GETSCHOW CO

ICV-09

ICV-10



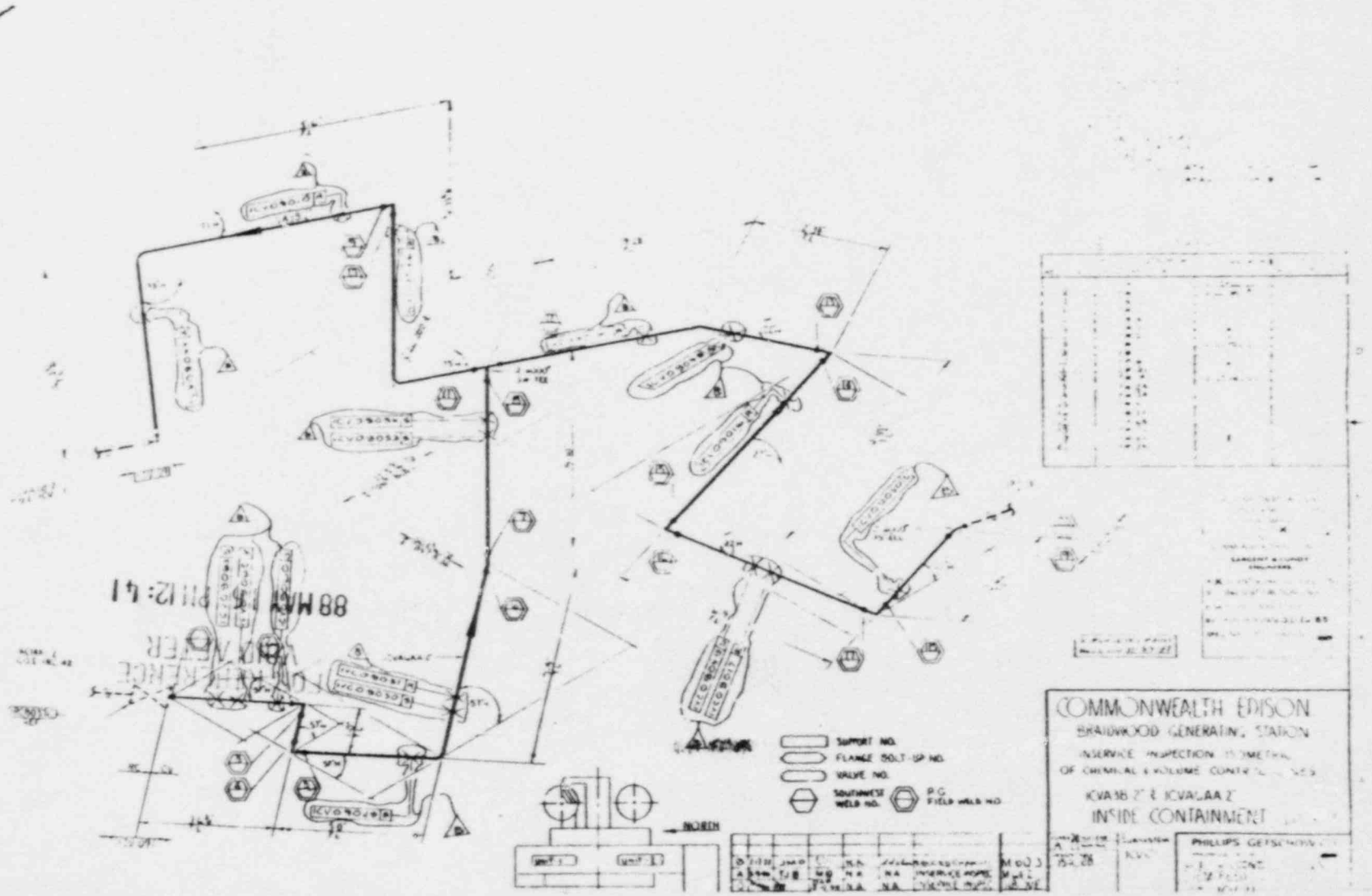
98 MAY 16 PM 12:41

FOR REFERENCE
VOID AFTER

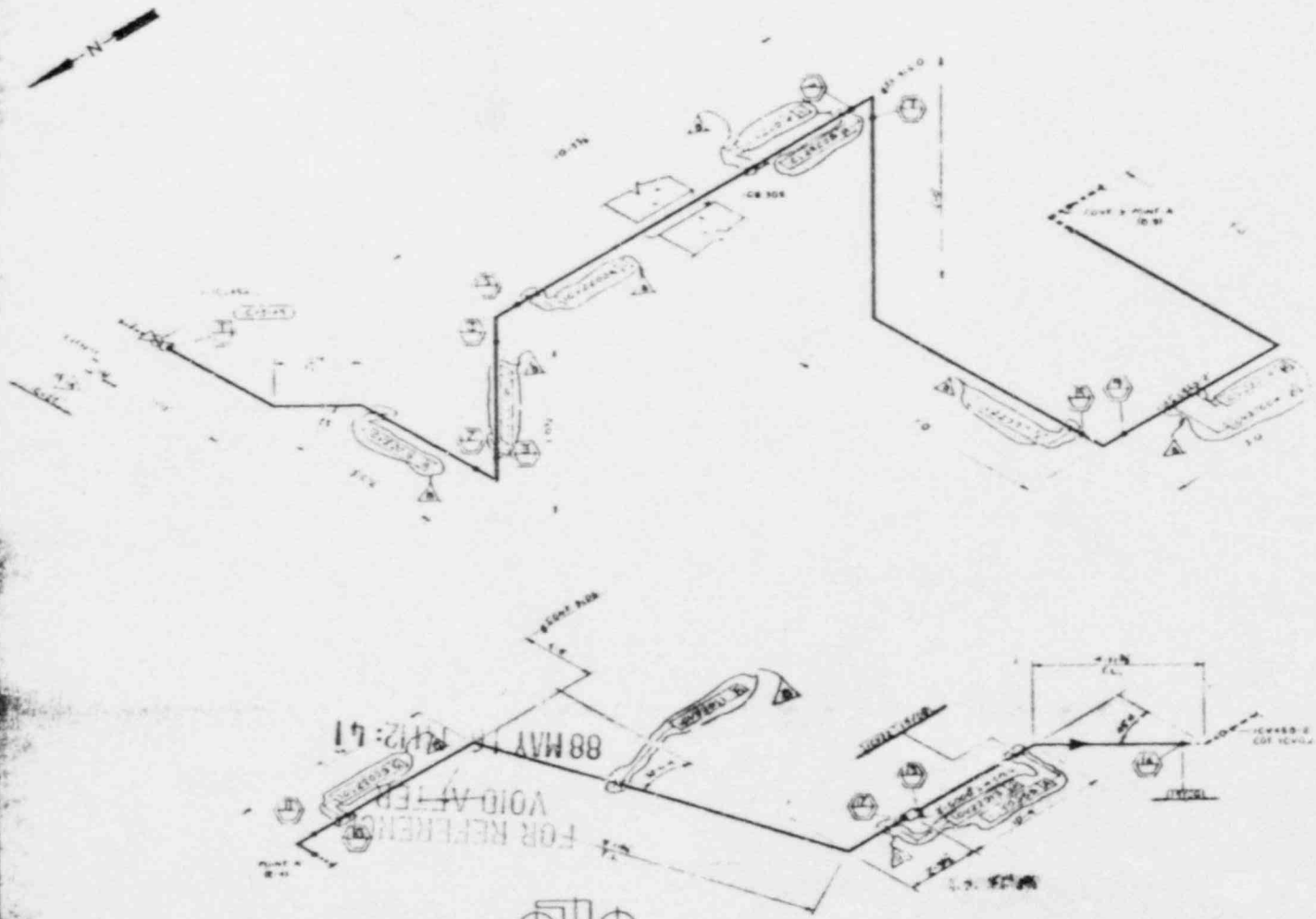
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
NUCLEAR INJECTION ISOMETRIC
OF CHEMICAL AND VOLUME CONTROL
ICVA7AB 2
INSIDE CONTAINMENT

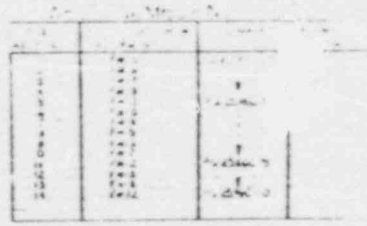
PHILLIPS GETSCHOW CO

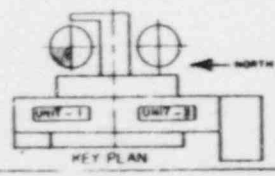
ICV-11


N
SUPPORT NO.
FLANGE BOLT-UP NO.
VALVE NO.
SHOP WELD NO.
F.C. FIELD WELD NO.
NORTH
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF CHEMICAL & VOLUME CONTROL SYS
ICV438 2" & ICV442A 2"
INSIDE CONTAINMENT
PHILLIPS GETSCHOW

ICV-12







VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE NO.	VALVE MANUFACTURER	MANUFACTURER SERIAL NO.
[illegible]	GLOBE	8	1/8	[illegible]	[illegible]	[illegible]

COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION

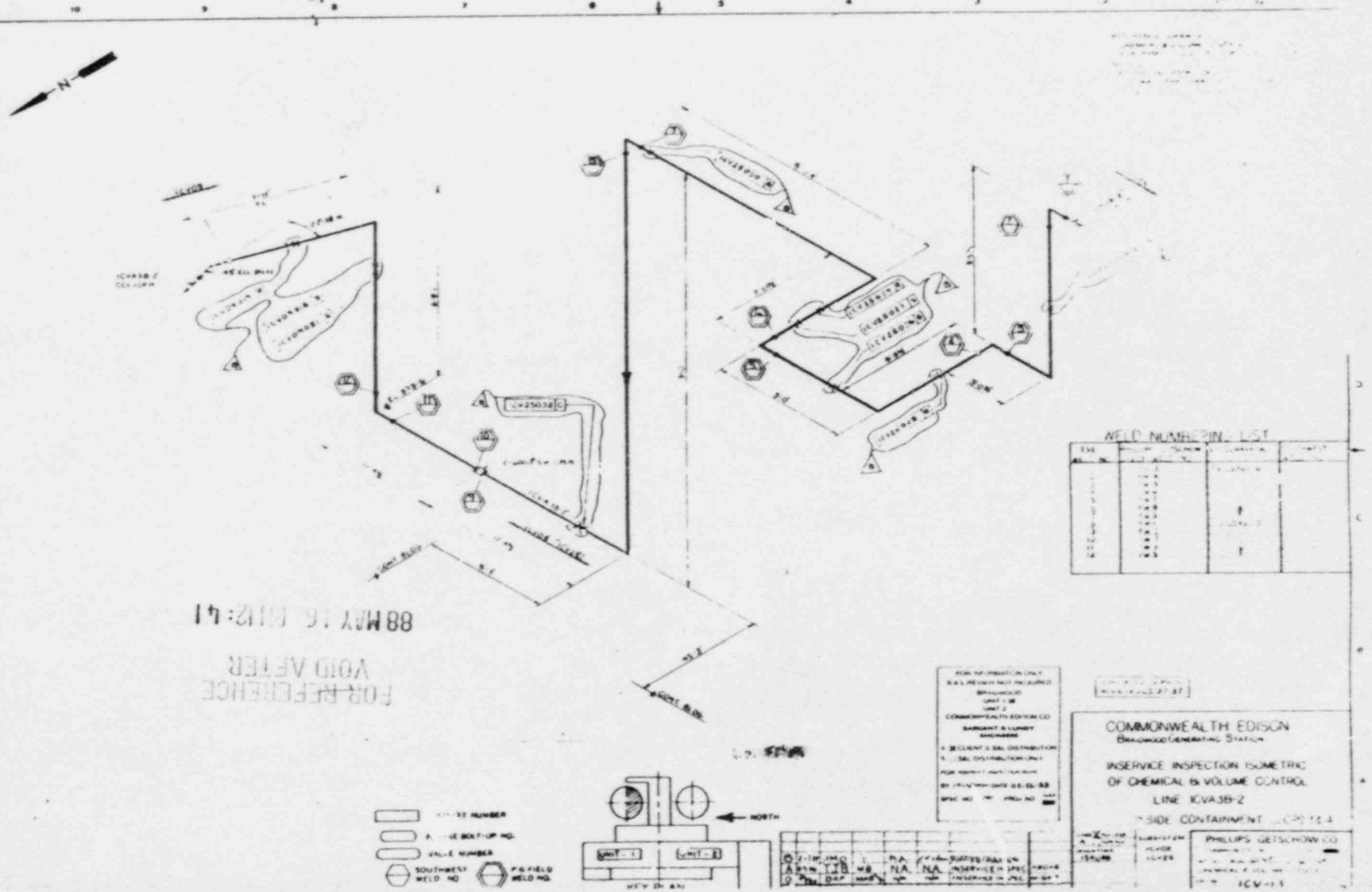
INSERVICE INSERVICE EXAMIN
OF CHEMICAL AND VOLUME CONTRO
LINE ICV458-2
INSIDE CONTAINMENT

PHILLIPS GETSCHOW

ICV-12

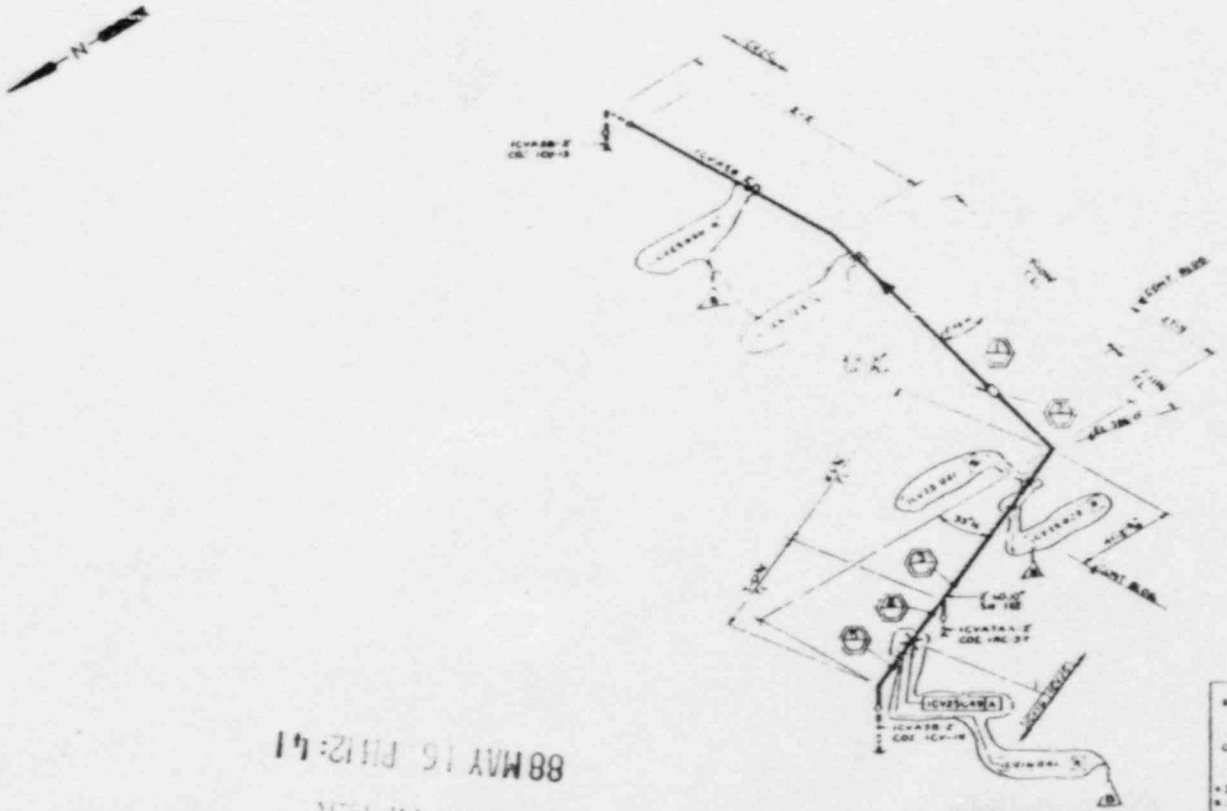
88 MAY 1 P12:41
VOID AFTER
FOR REFERENCE

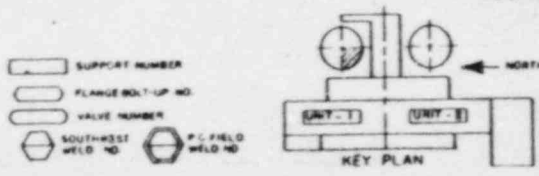
ICV-13



88MAY 16 01:12:41
VOID AFTER
FOR REFERENCE

ICV-14

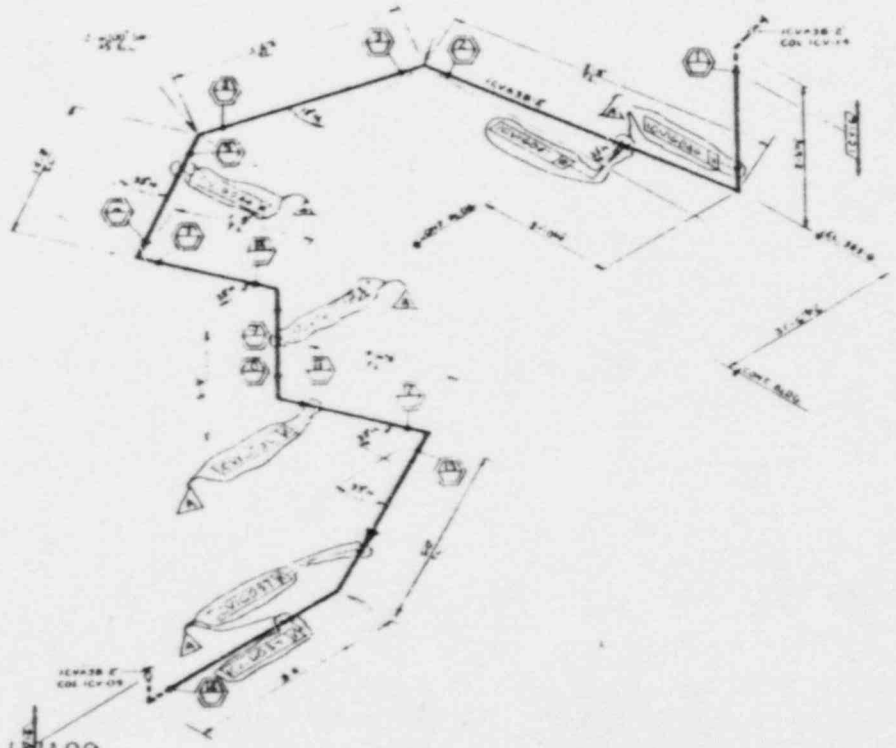


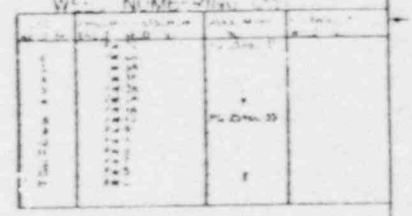


COMMONWEALTH EDISON
Braidwood Generating Station
INSERVICE INSPECTION ISOMETRIC
OF CHEMICAL & VOLUME CONTROL
LINE 1CVA38
INSIDE CONTAINMENT

88MAY 16 PM12:41
FOR REFERENCE
VOID AFTER

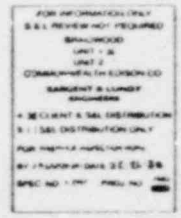
ICV-15





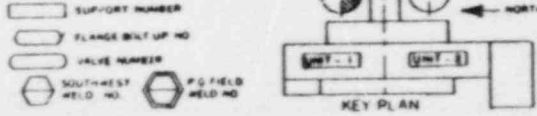
88 MAY 16 PM 12:41

VOID AFTER
FOR REFERENCE

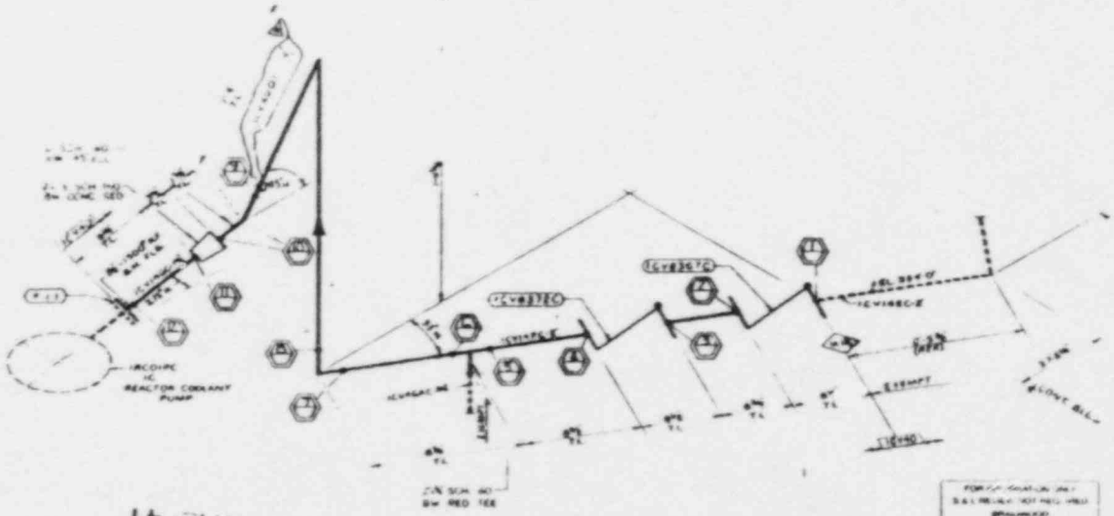


COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF CHEMICAL & VOLUME CONTROL
LINE ICVA38-Z
INSIDE CONTAINMENT ICV-4

PHILLIPS GETSCHOW CO



1CV-16



88 MAY 16 P1:12:41

FOR REFERENCE
VOID AFTER

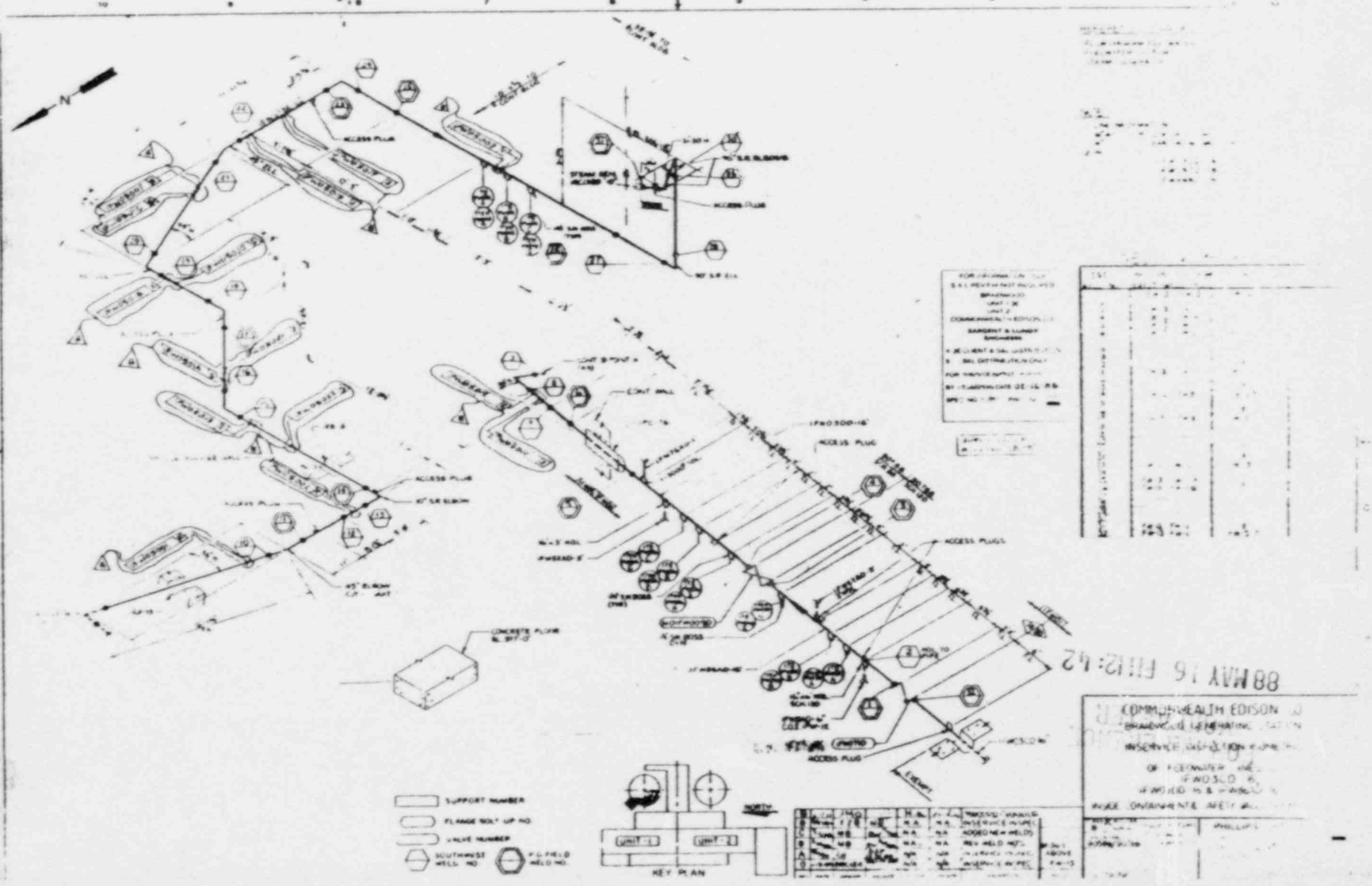
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF CHEMICAL & VOLUME CONTROL
LINE 1CV14FC-2 & 1CV14GC-½
INSIDE CONTAINMENT

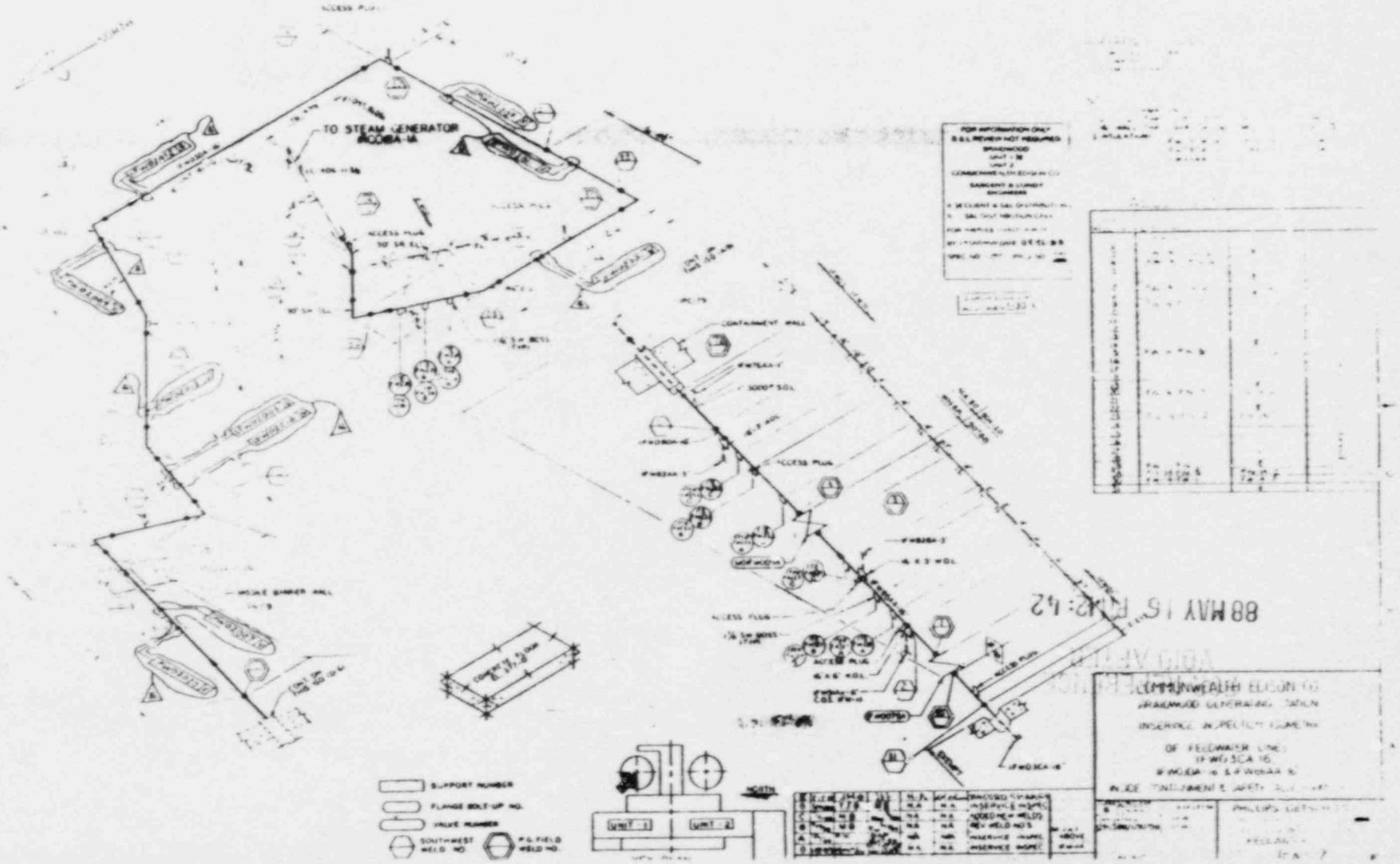
PHILLIPS GETSCHOW

1CV-16

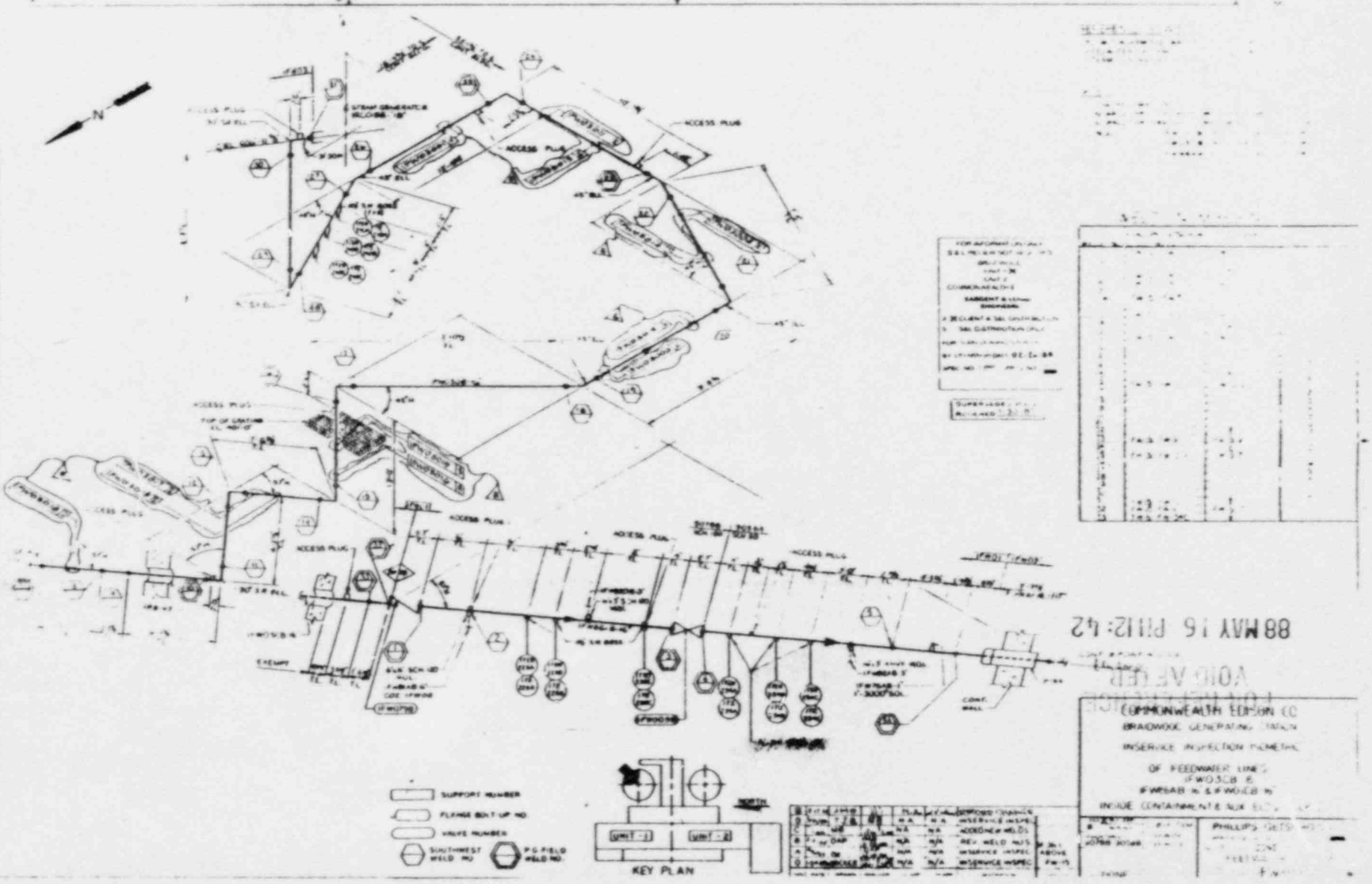
1FW-01


N
ACCESS PLUG
KEY PLAN
SUPPORT NUMBER
FLANGE BOLT UP NO
VALVE NUMBER
SOUTHWEST WELD NO
P.G. FIELD WELD NO.
COMMONWEALTH EDISON
88 MAY 16 11:15:42

1FW-02

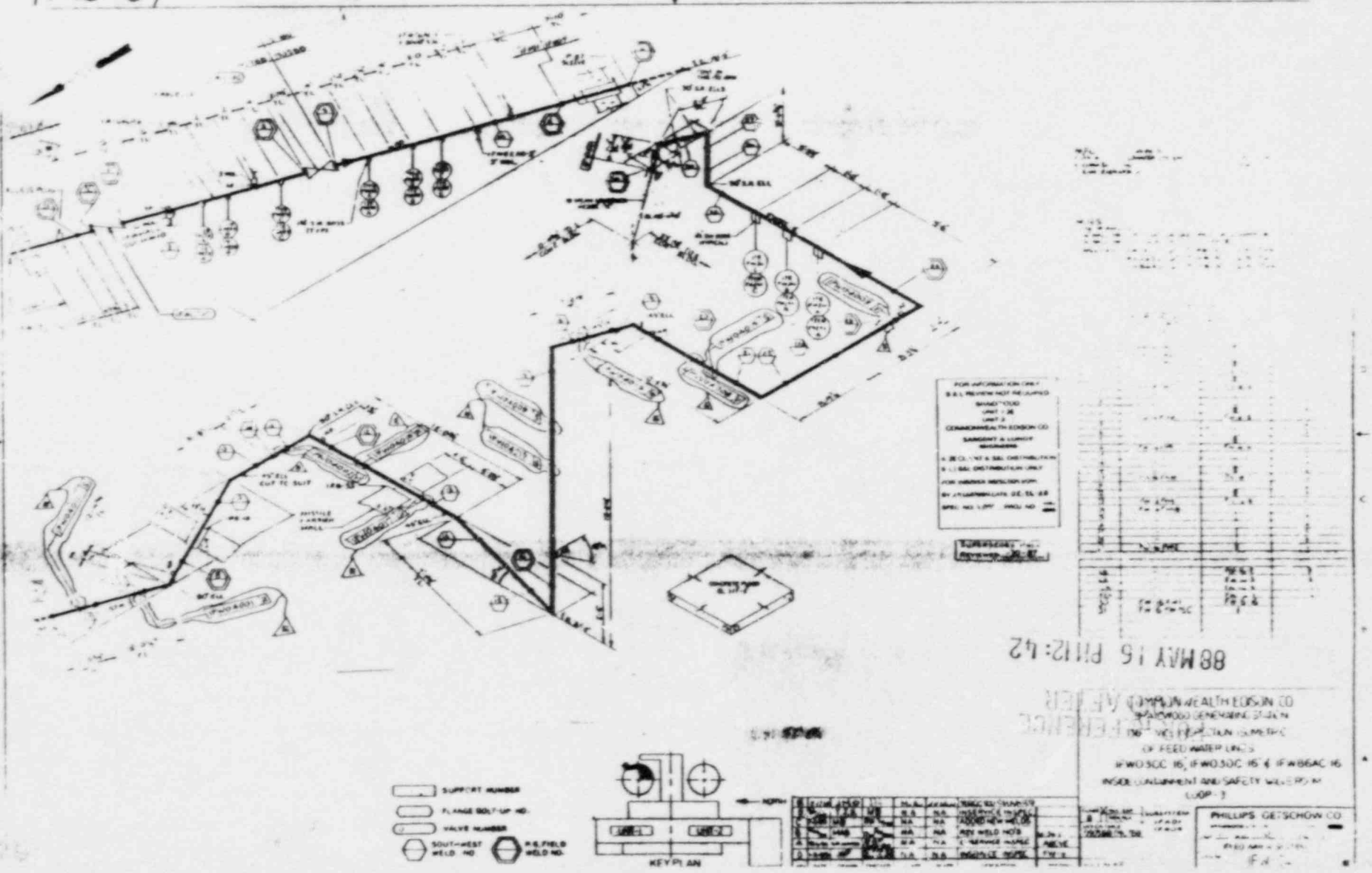

TO STEAM GENERATOR
RCOBA-1A
CONTAINMENT WALL
ACCESS PLUG
SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SOUTHWEST WELD NO.
P.G. FIELD WELD NO.
UNIT 1
UNIT 2
NORTH
88 MAY 15 P 12:42

1FW-03



88 MAY 16 P1:42

1FW-04

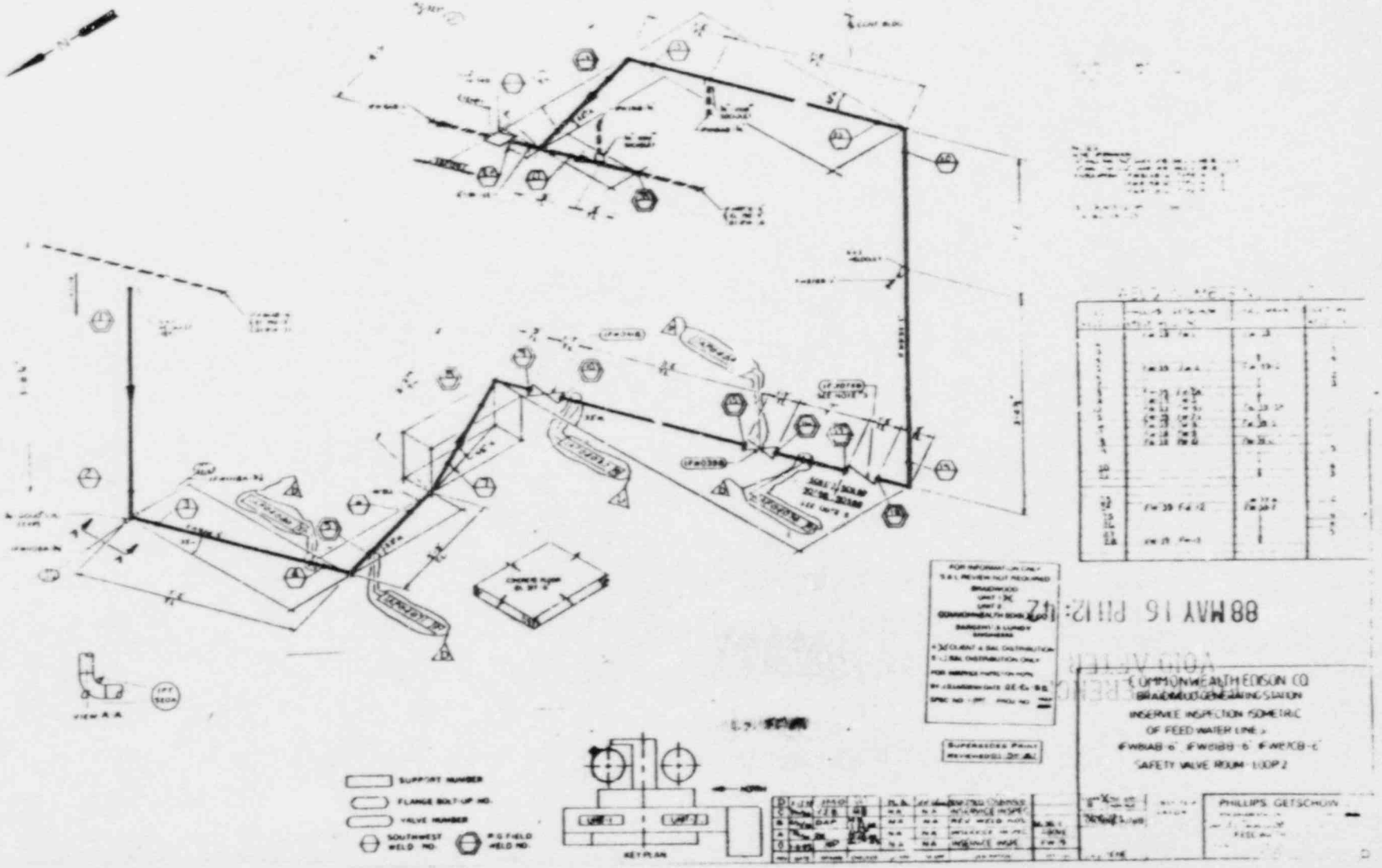


88 MAY 16 PM 12:42

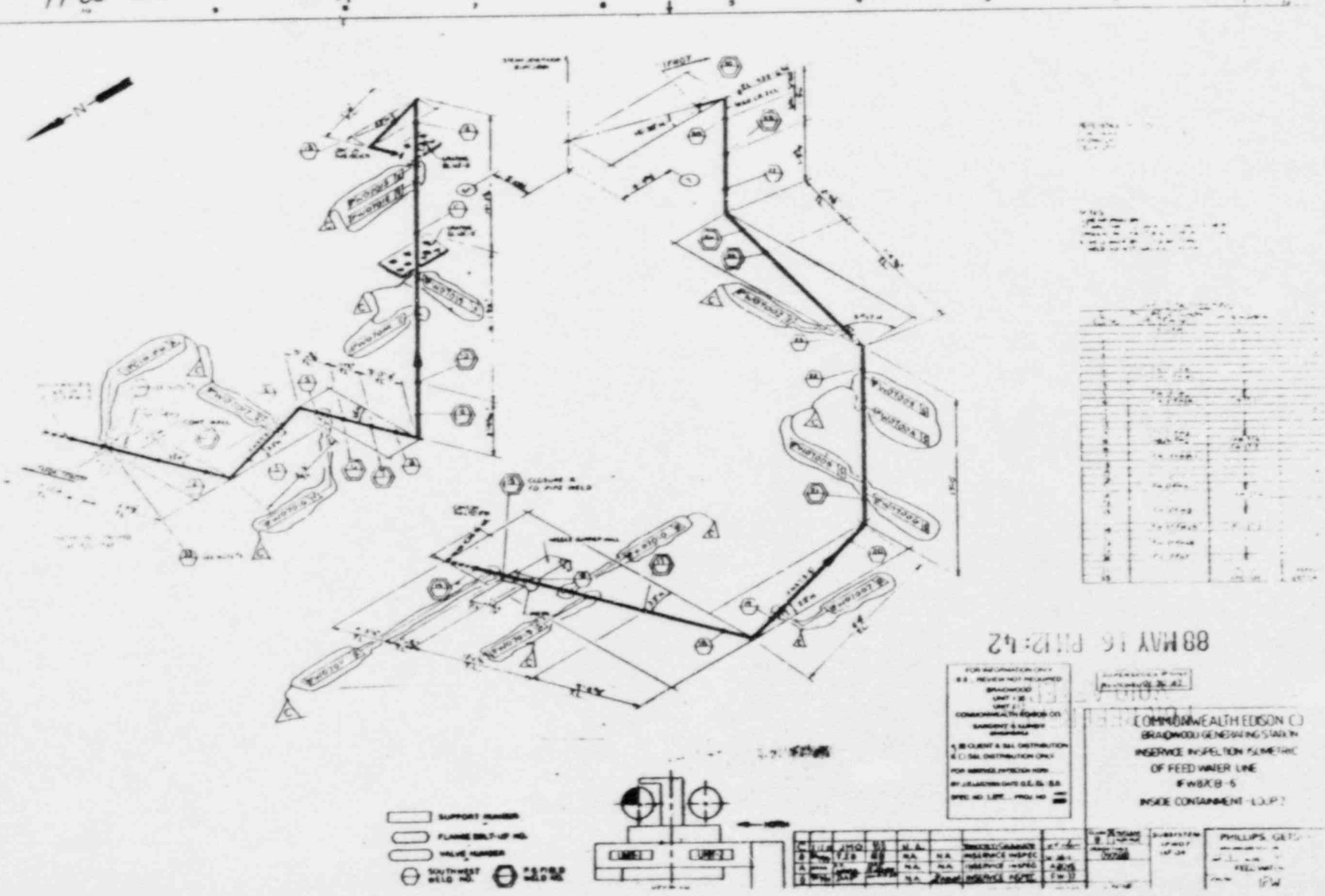
COMMONWEALTH EDISON CO
WAUKEGAN GENERATING STATION
ISOMETRIC INSPECTION ISOMETRICS
OF FEEDWATER LINES
IFWO 50C 16, IFWO 50C 15 & IFWB6AC 16
INSIDE CONTAINMENT AND SAFETY WELD PLAN
LOOP 1

PHILLIPS GETSCHOW CO

1FW-05


COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF FEED WATER LINES
FWBAB-6" FWCBB-6" FWBCB-6"
SAFETY VALVE ROOM - LOOP 2
PHILLIPS GETSCHOW
SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SHOP FIELD WELD NO.
KEY PLAN
VIEW A-A
88 MAY 16 PM 12:12

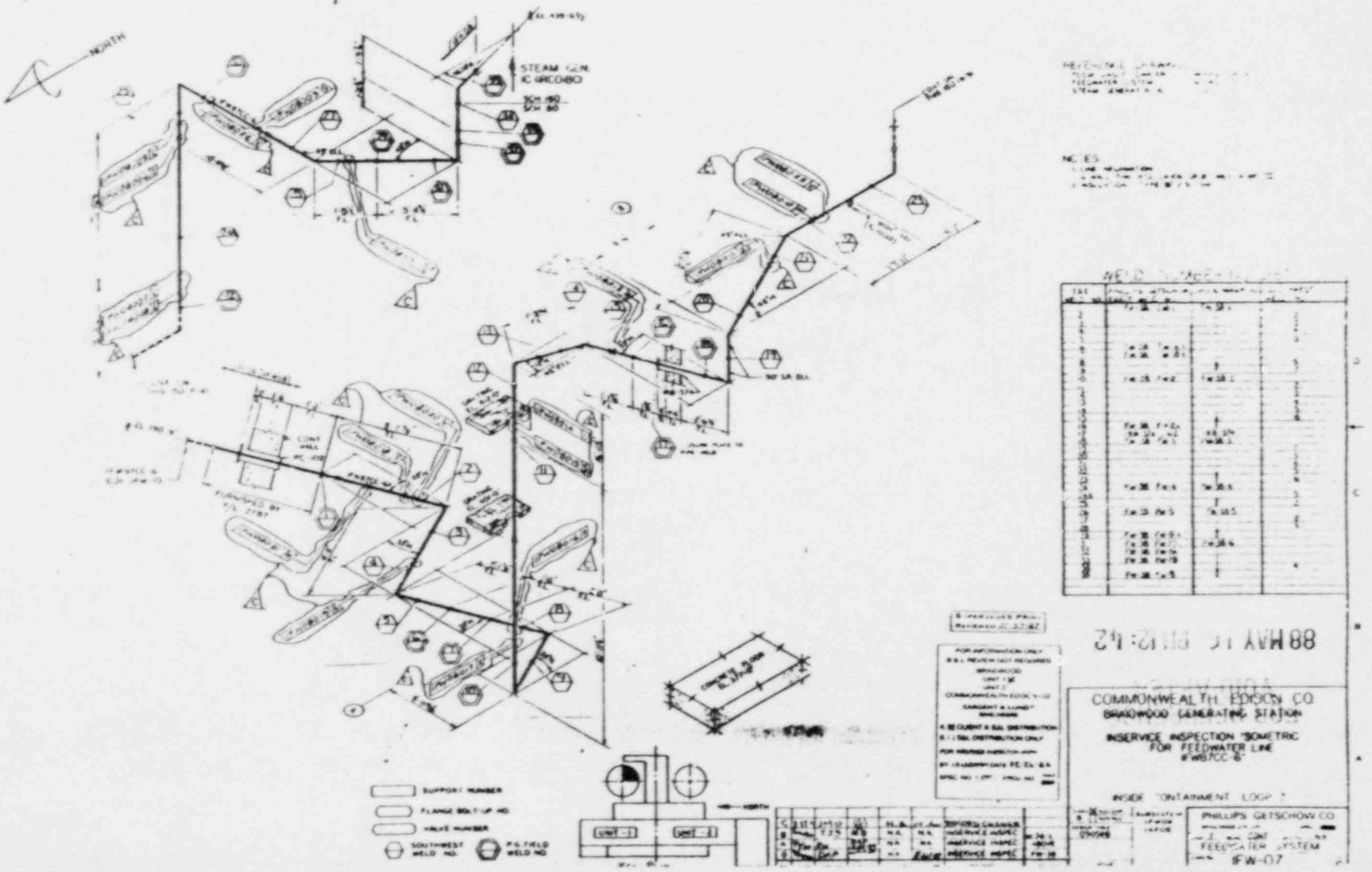
1FW-06



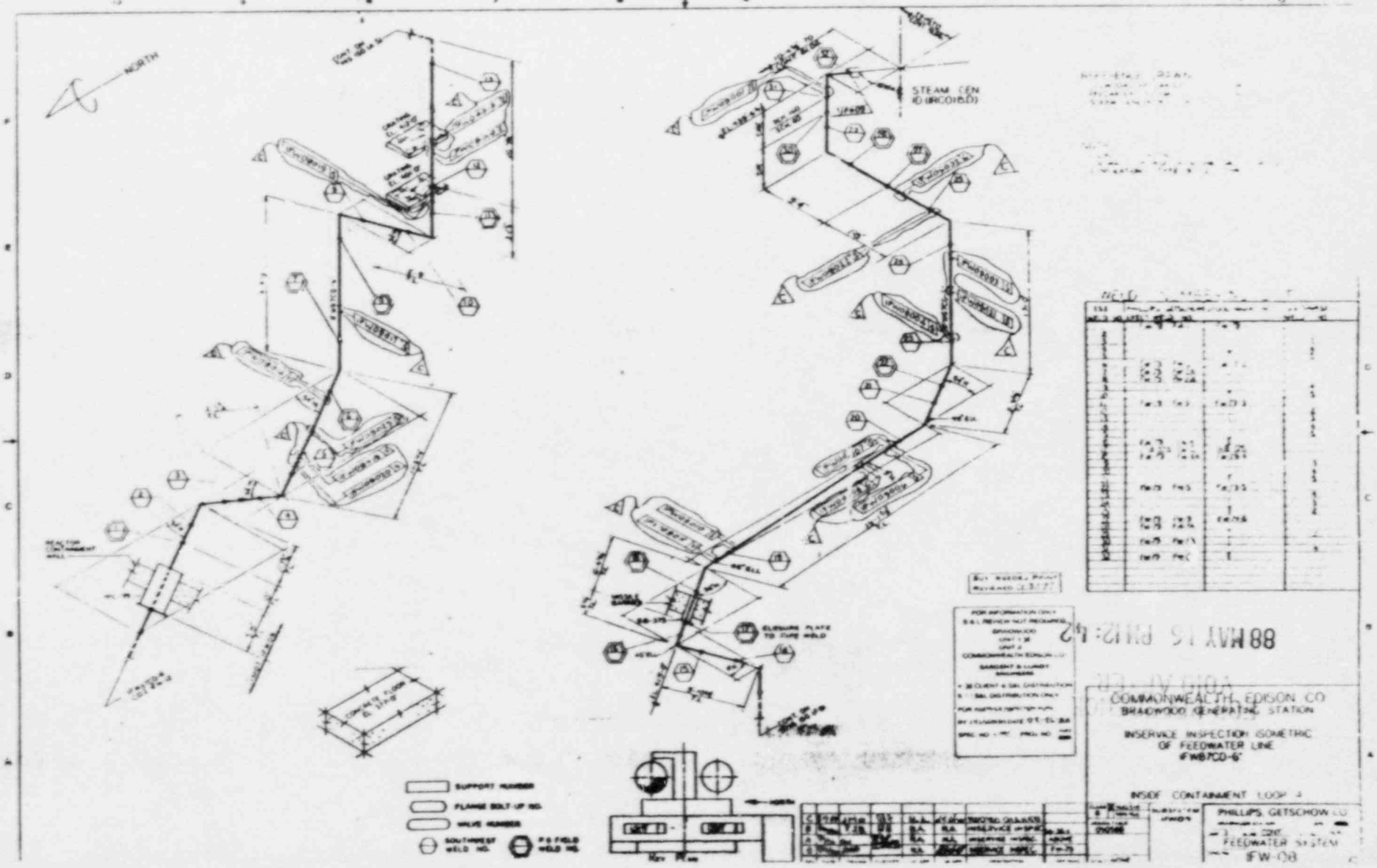
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF FEED WATER LINE
IFW08CB-5
INSIDE CONTAINMENT (LOOP 2)

88 MAY 16 P12:42

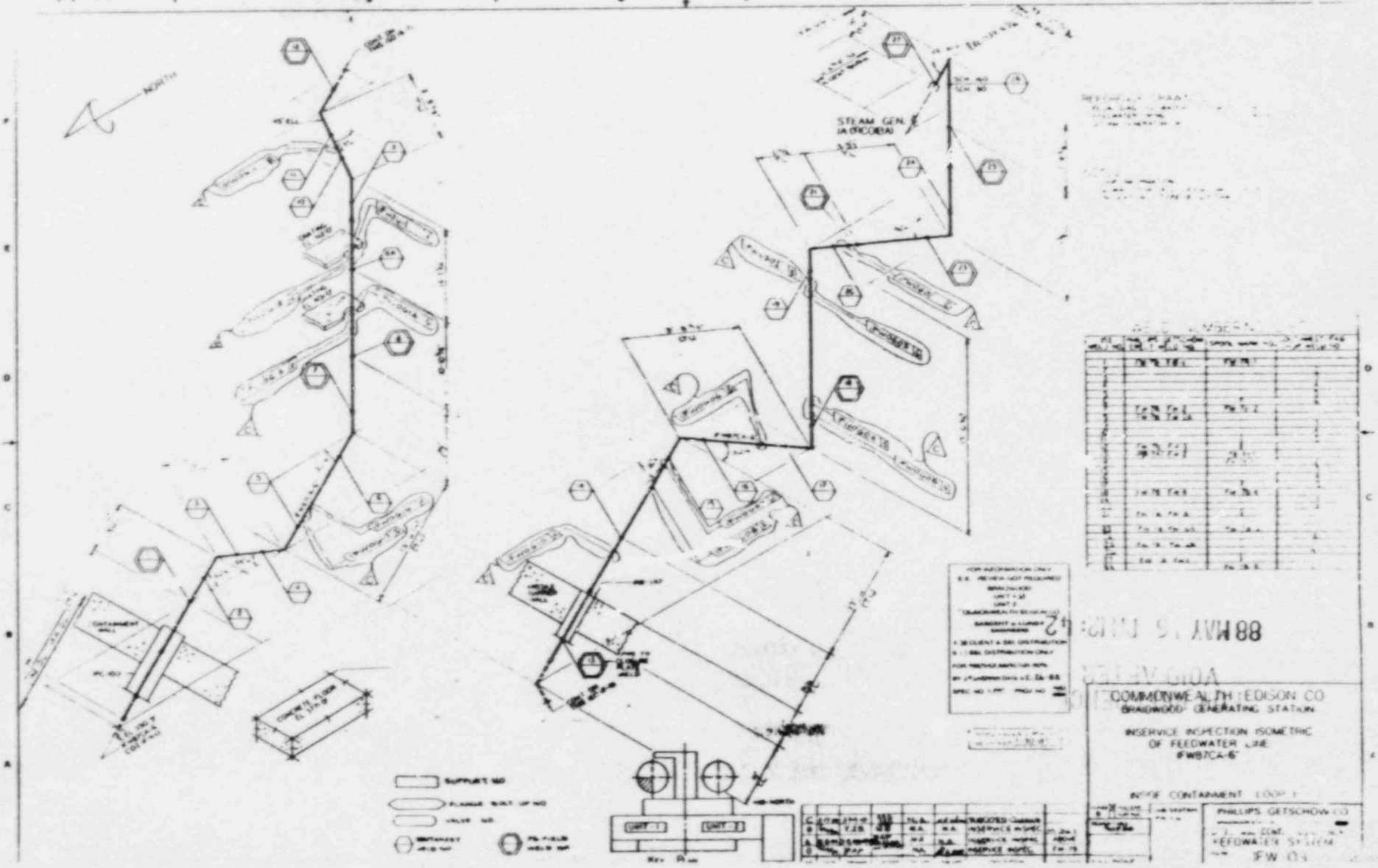
IFW-07


NORTH
STEAM GEN. IC (RECOMB)
SUPPORT NUMBER
FLANGE BOLT-UP NO
VALVE NUMBER
SOUTHWEST WELD NO
FIELD WELD NO
unit-1
unit-2
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
FOR FEEDWATER LINE
8"WS7CC-6"
INSIDE CONTAINMENT LOOP 1
PHILLIPS GETSCHOW CO
FEEDWATER SYSTEM
IFW-07

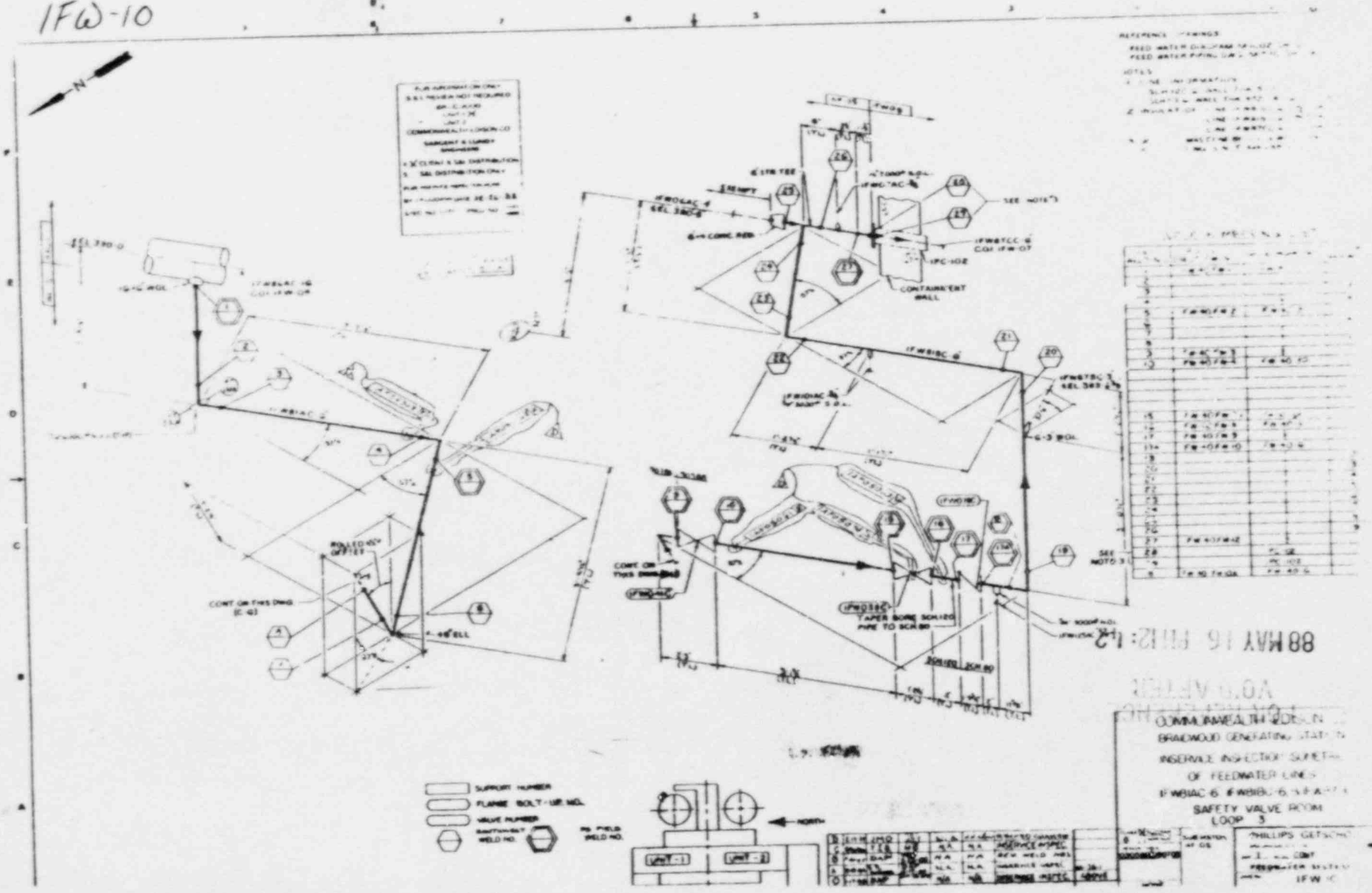
1FW-08


NORTH
STEAM GEN
ID (INCONEL)
88 MAY 15 PM 2:40
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF FEEDWATER LINE
IFW07CD-6
INSIDE CONTAINMENT LOOP 4
PHILLIPS GETSCHOW CO
FEEDWATER SYSTEM
IFW-08

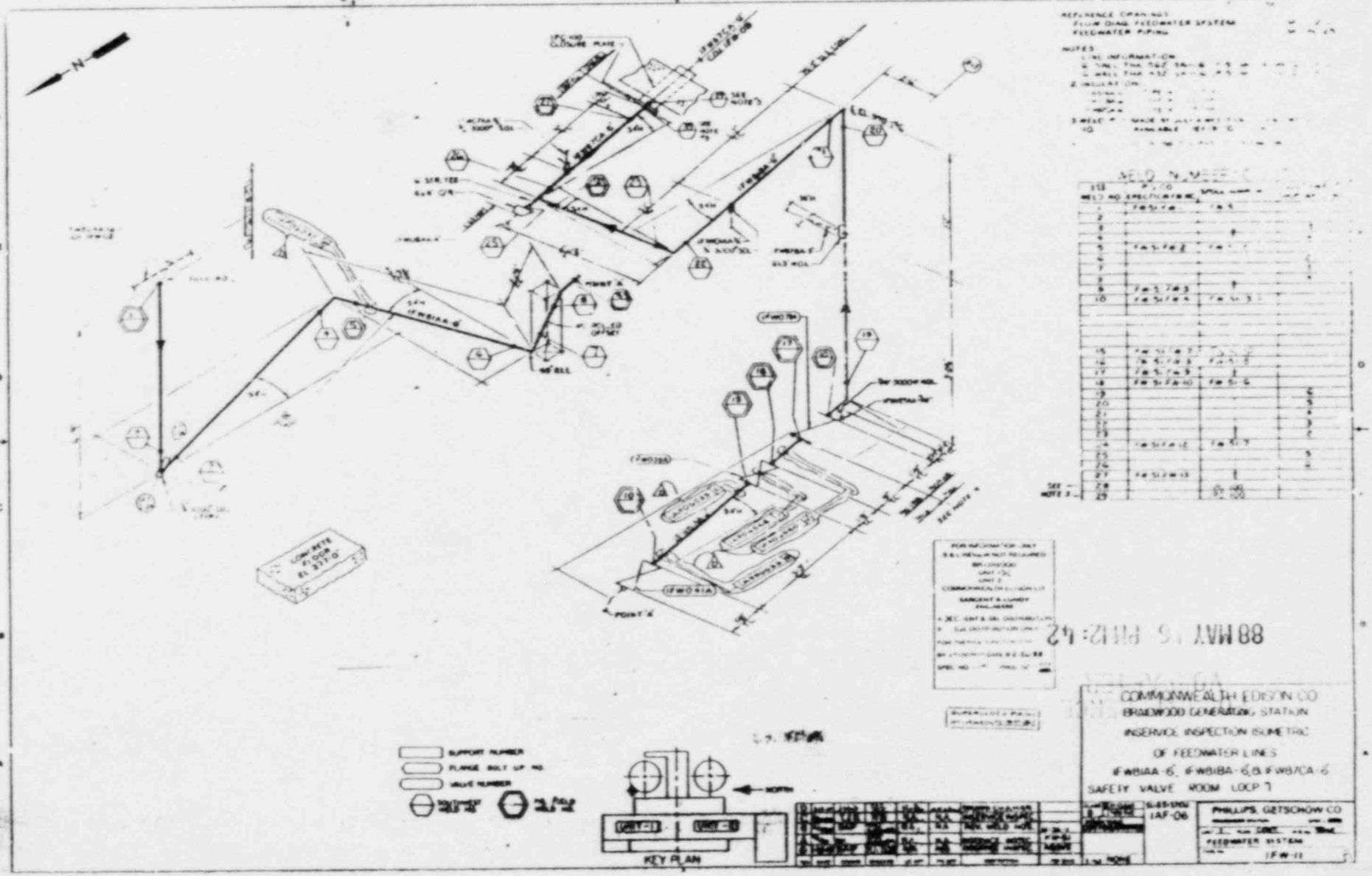
1FW-09


NORTH
STEAM GEN. E
(A BROKEN)
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF FEEDWATER LINE
FW87CA-6"
INSIDE CONTAINMENT LOOP 1
PHILLIPS GETSCHOW CO
FEEDWATER SYSTEM
FW-01

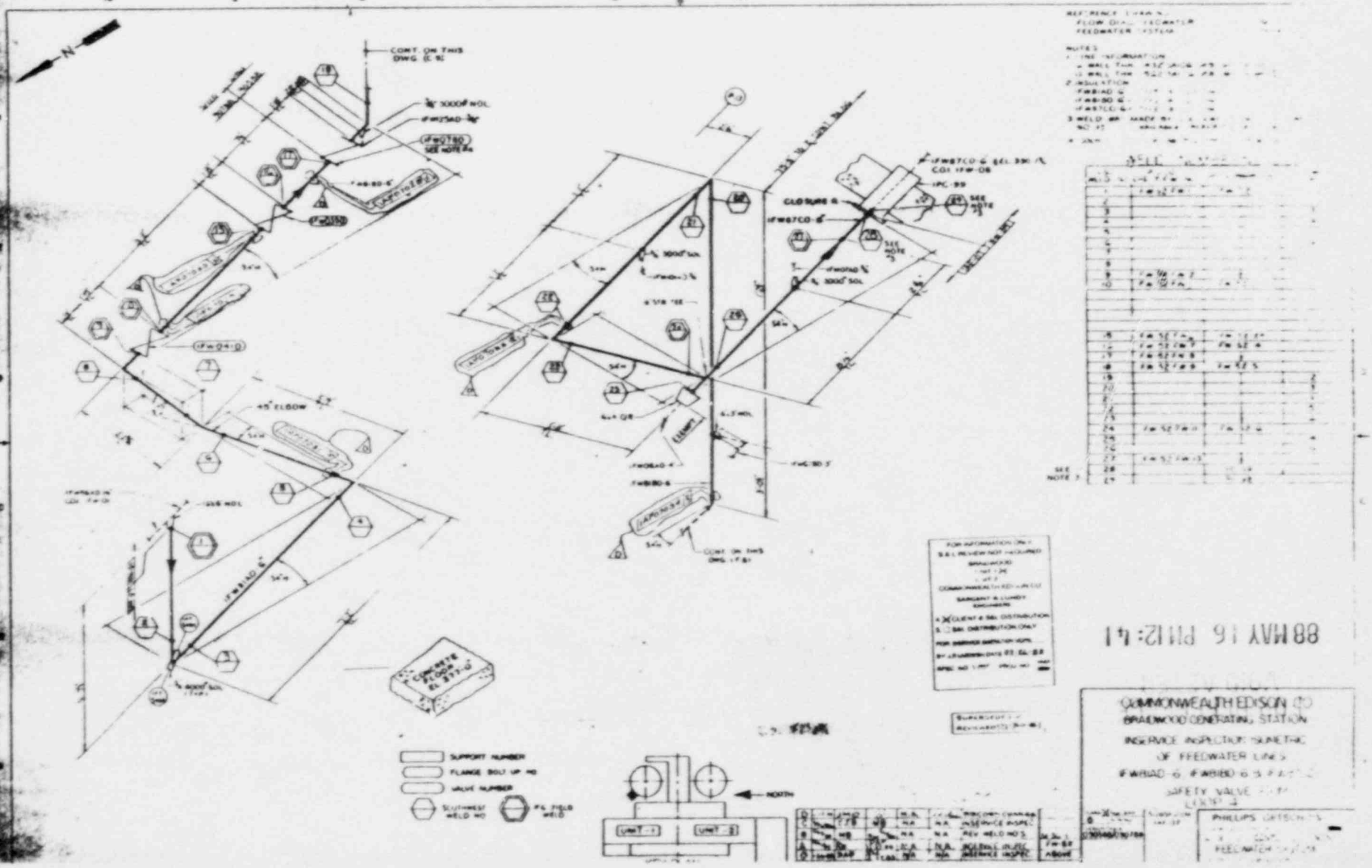
IFW-10


N
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION SUPPORTS
OF FEEDWATER LINES
IFW8AC-6 IFW8BC-6
SAFETY VALVE ROOM
LOOP 3
PHILLIPS GETSCHOW
IFW-10

1FW-11

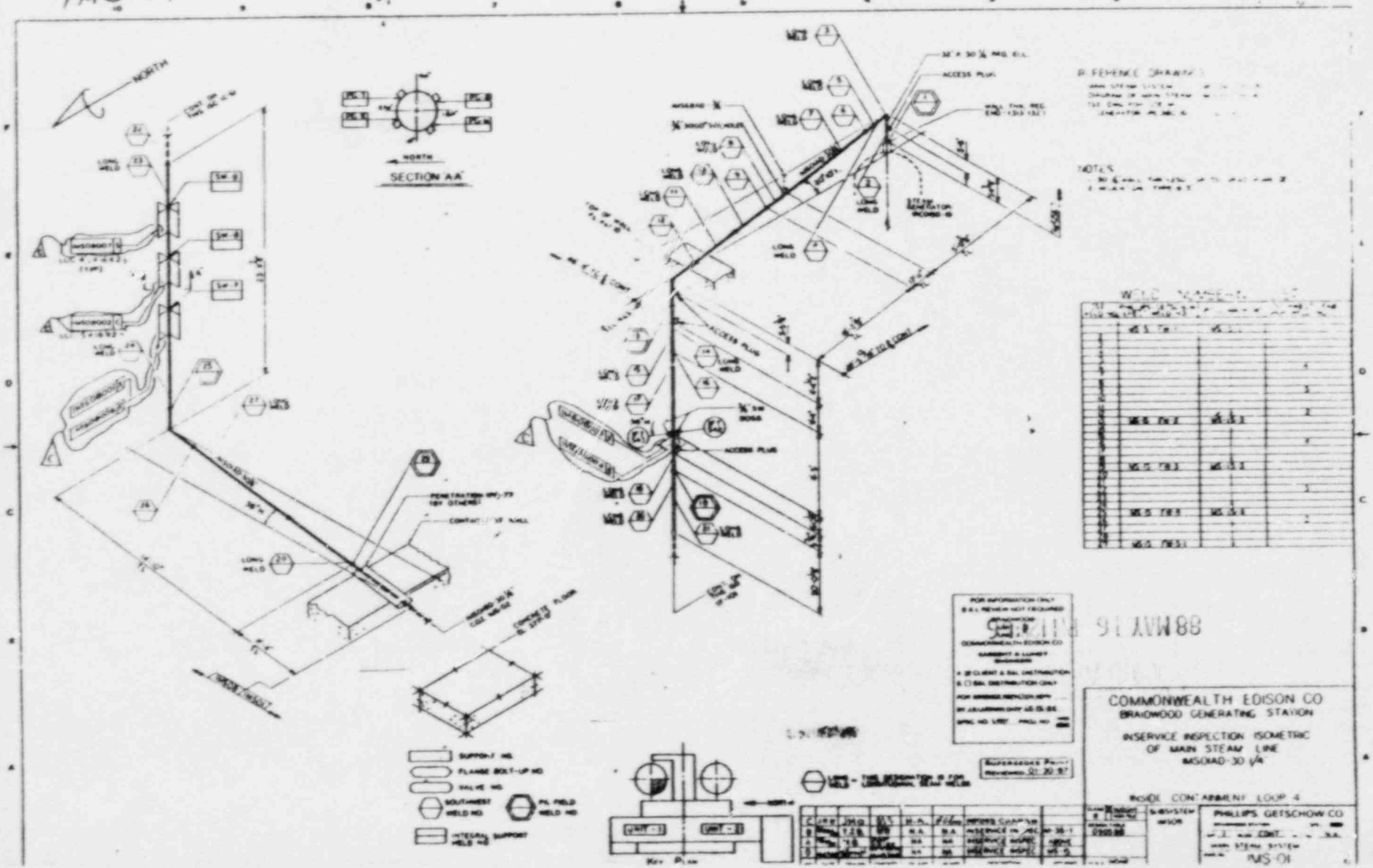

N
KEY PLAN
NORTH
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATION STATION
INSERVICE INSPECTION ISOMETRIC
OF FEEDWATER LINES
1FW01AA-6, 1FW01BA-6,8 1FW07CA-6
SAFETY VALVE ROOM LOOP 1
PHILLIPS GETSCHOW CO
FEEDWATER SYSTEM
1FW-11

1FW-12

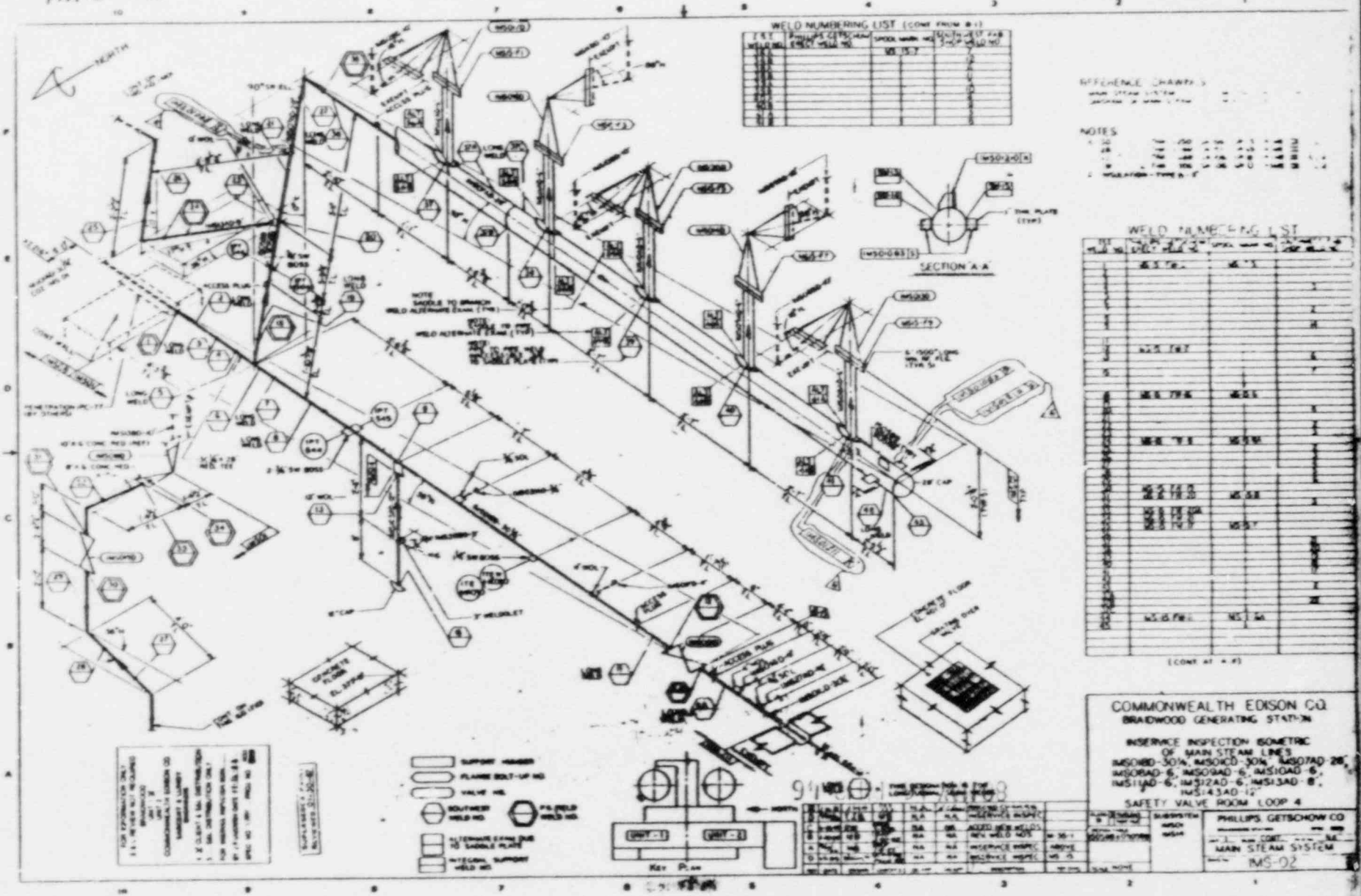


88 MAY 16 P1:12:41

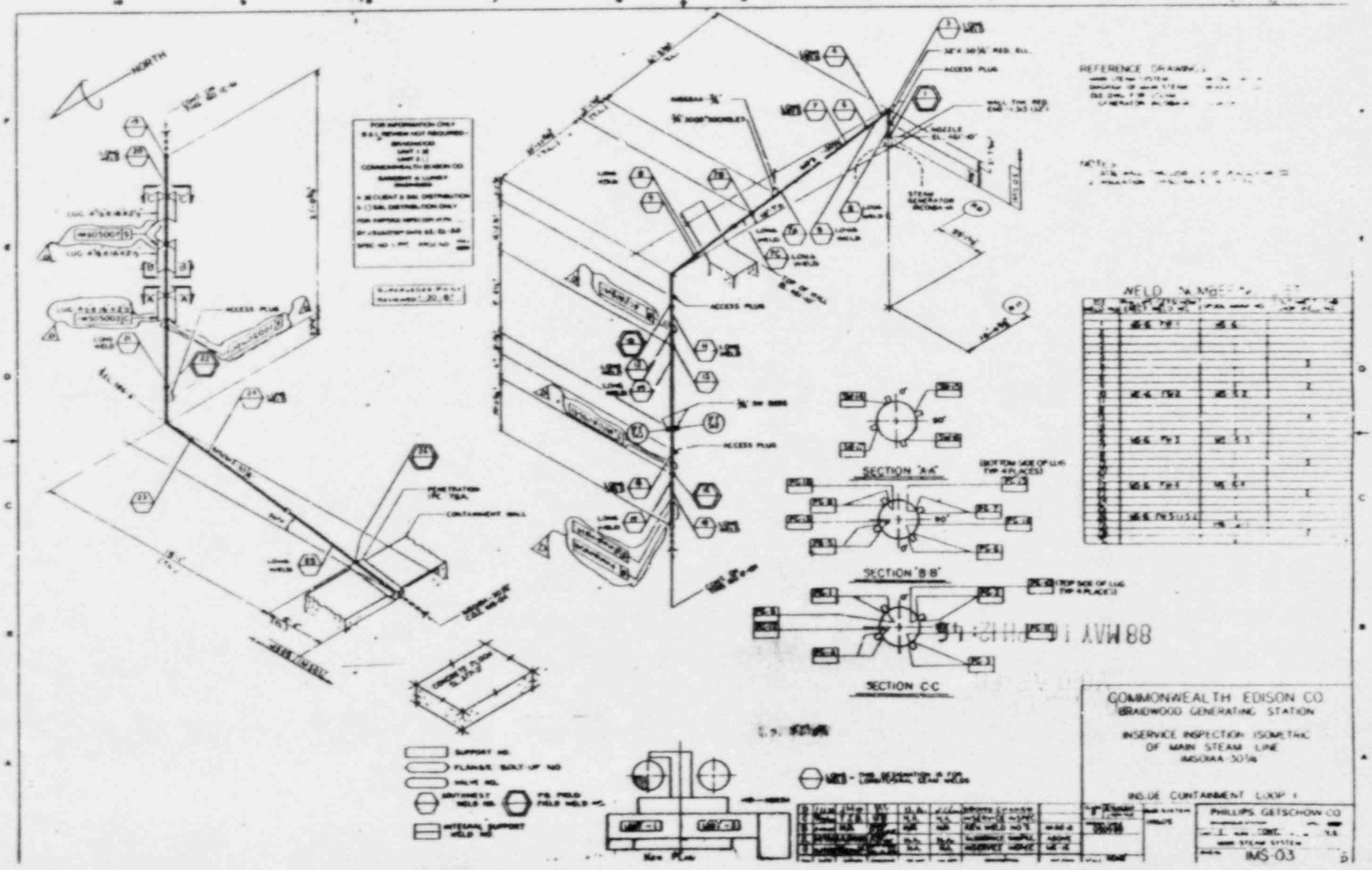
IMS-01


NORTH
SECTION AA
ACCESS PLUG
REFERENCE DRAWINGS
NOTES
WELD NUMBER
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF MAIN STEAM LINE
MSIOAD-30 VA
MSIOL CONTAINMENT LOOP 4
PHILLIPS GETSCHOW CO
IMS-01

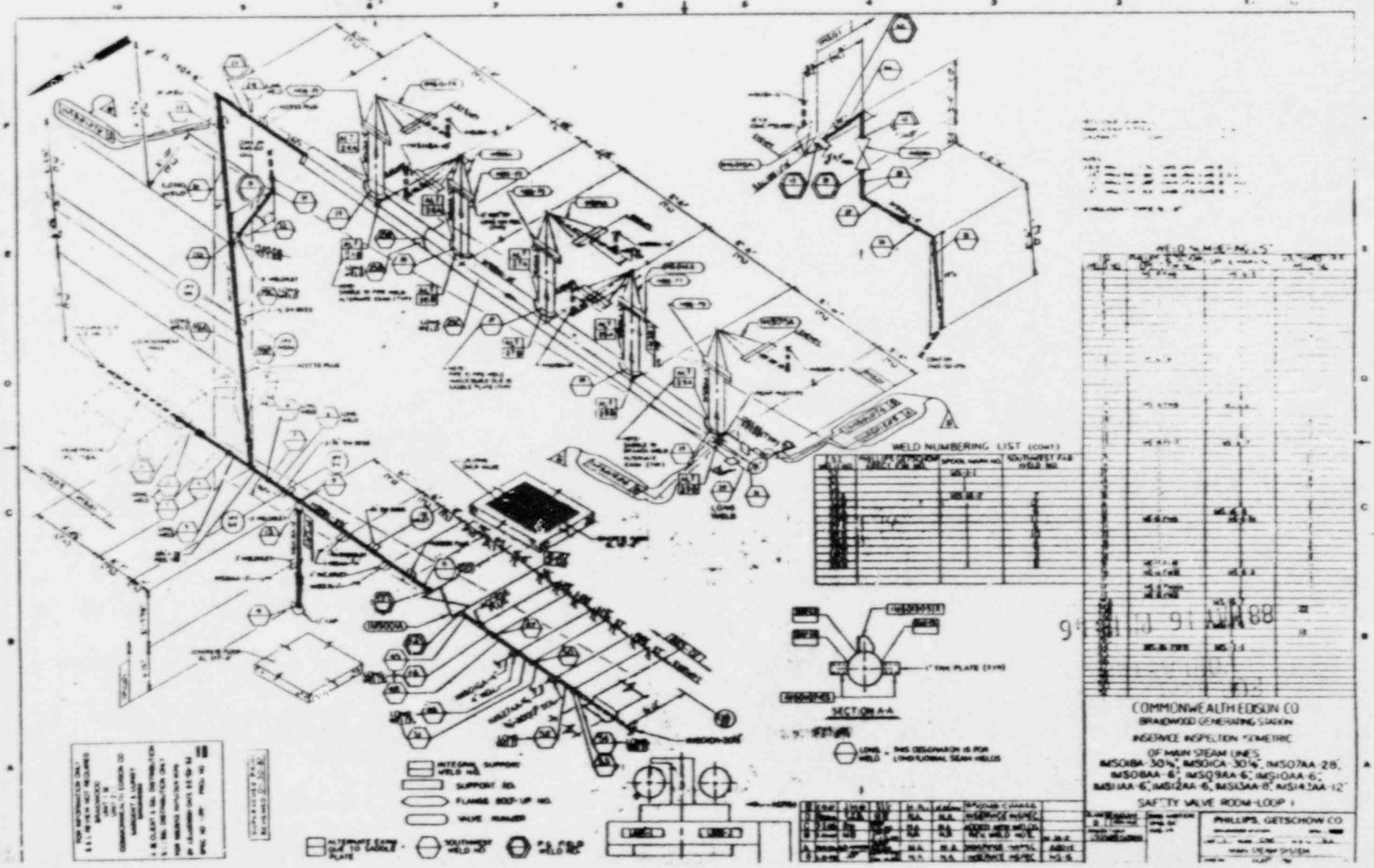
IMS-02


WELD NUMBERING LIST
SECTION A-A
NOTES
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC OF MAIN STEAM LINES
SAFETY VALVE ROOM LOOP 4
PHILLIPS GETSCHOW CO.
MAIN STEAM SYSTEM
IMS-02

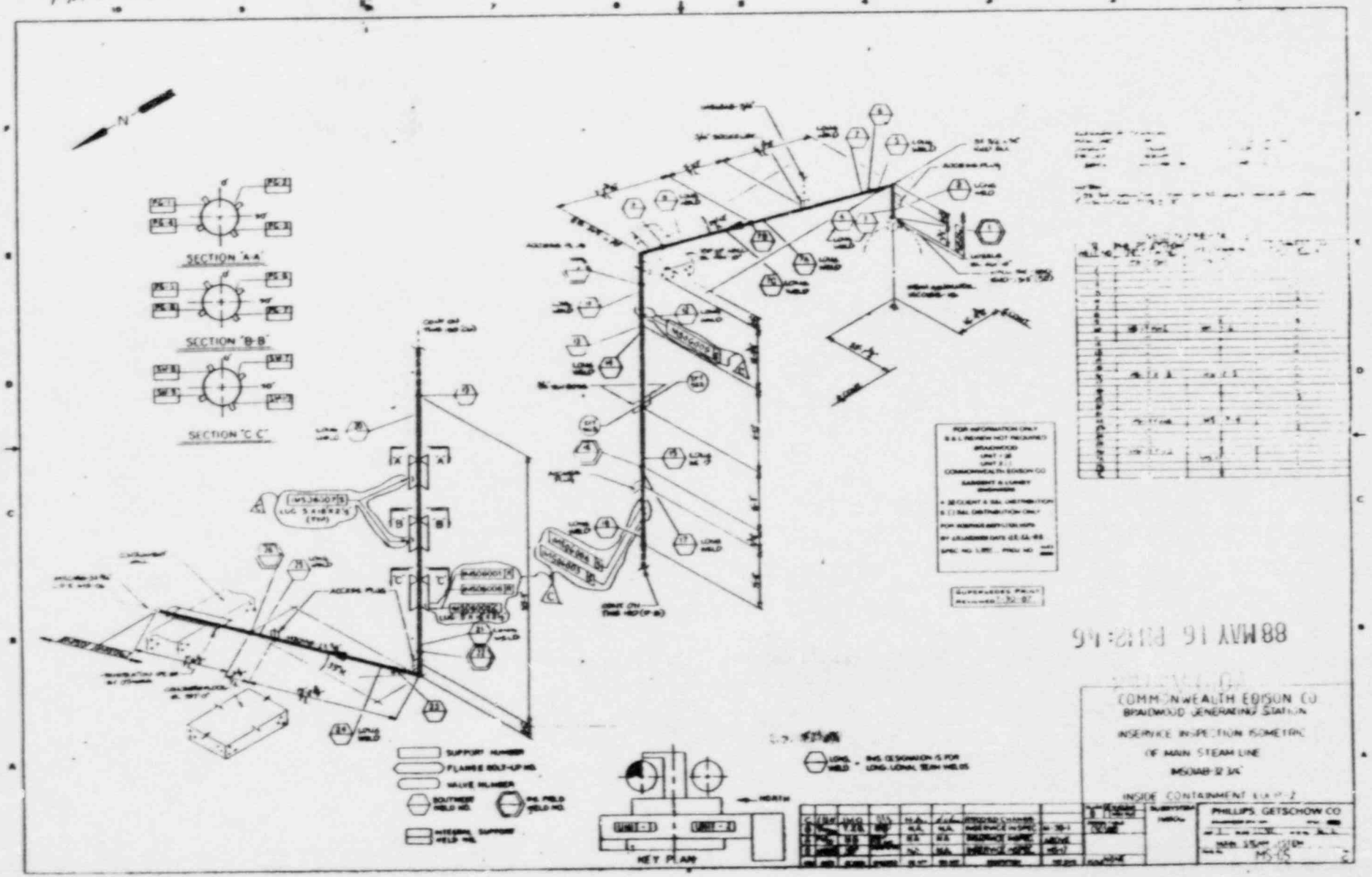
IMS-03


NORTH
REFERENCE DRAWINGS
NOTES:
WELD NUMBER
SECTION "AA"
SECTION "BB"
SECTION CC
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF MAIN STEAM LINE
INSIDE CONTAINMENT LOOP 1
PHILLIPS GETSCHOW CO
IMS-03

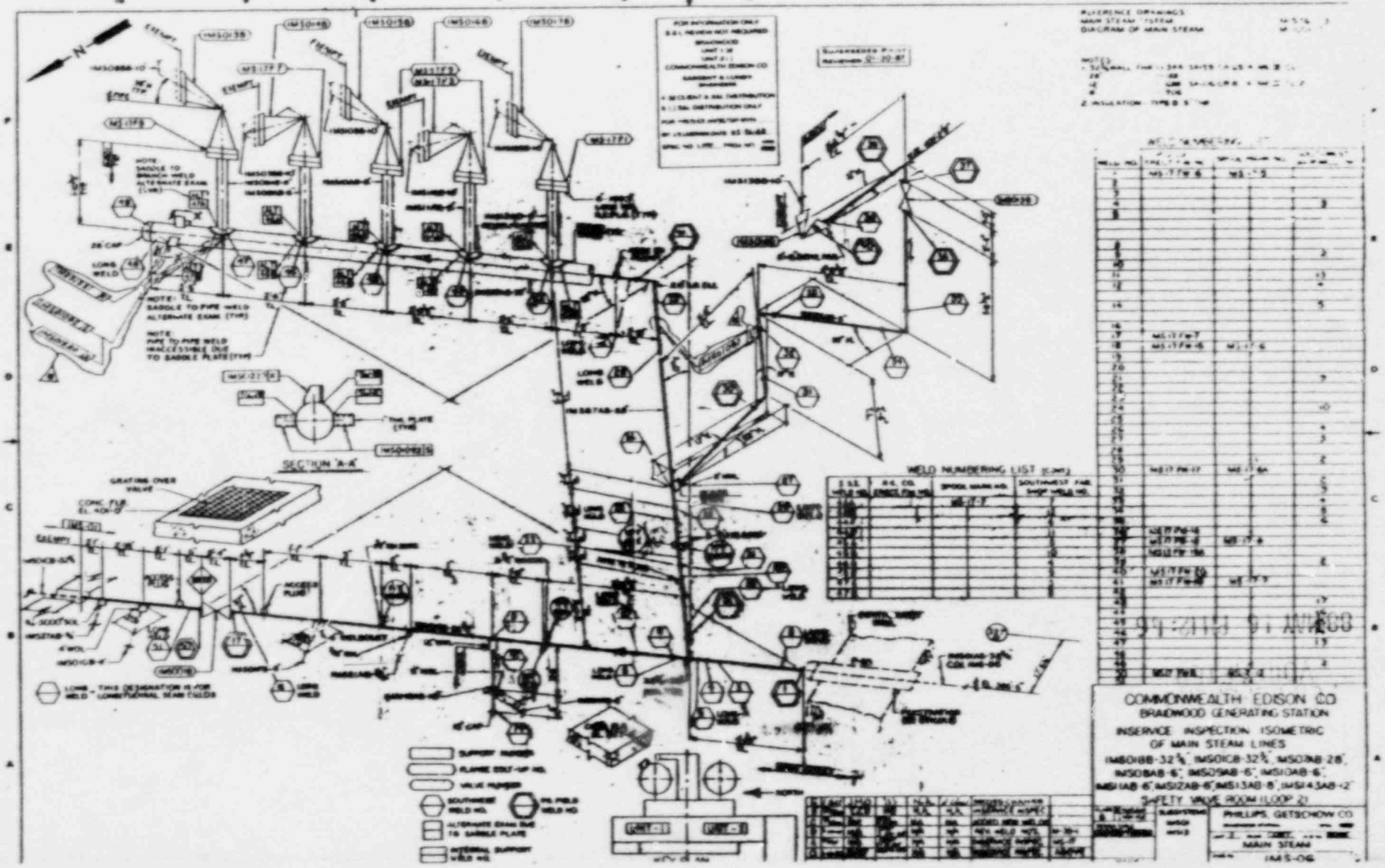
IMS-04


WELD NUMBERING LIST (CONT.)
SECTION A-A
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION "ISOMETRIC
OF MAIN STEAM LINES
IMSO1BA-30", IMSO1CA-30", IMSO7AA-28",
IMSO8AA-6", IMSO9AA-6", IMS10AA-6",
IMS11AA-6", IMS12AA-6", IMS13AA-8", IMS14AA-12"
SAFETY VALVE ROOM-LOOP 1
PHILLIPS, GETSCHOW CO

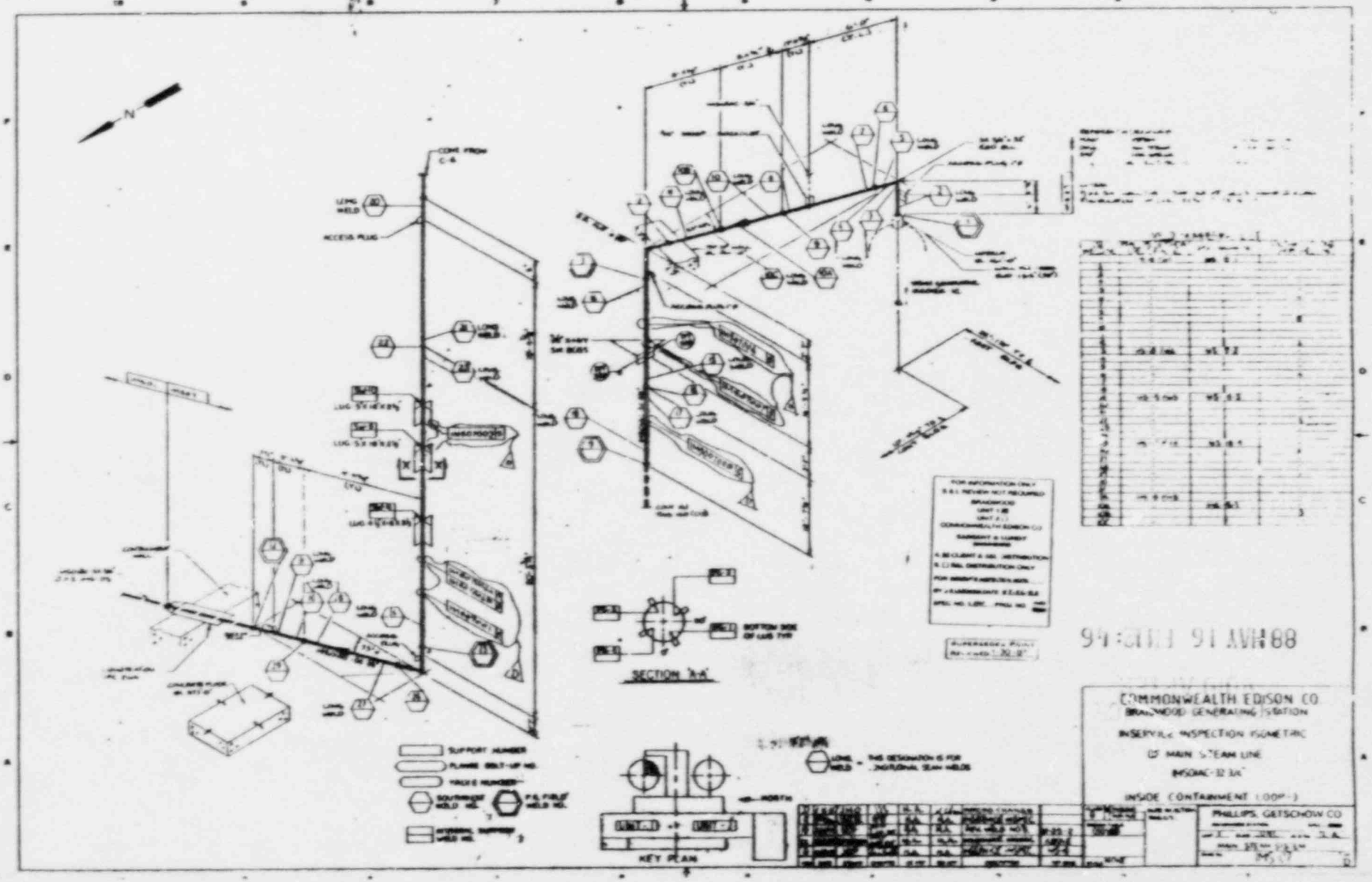
1AS-05


SECTION 'A-A'
SECTION 'B-B'
SECTION 'C-C'
KEY PLAN
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF MAIN STEAM LINE
INSIDE CONTAINMENT
PHILLIPS GETSCHOW CO

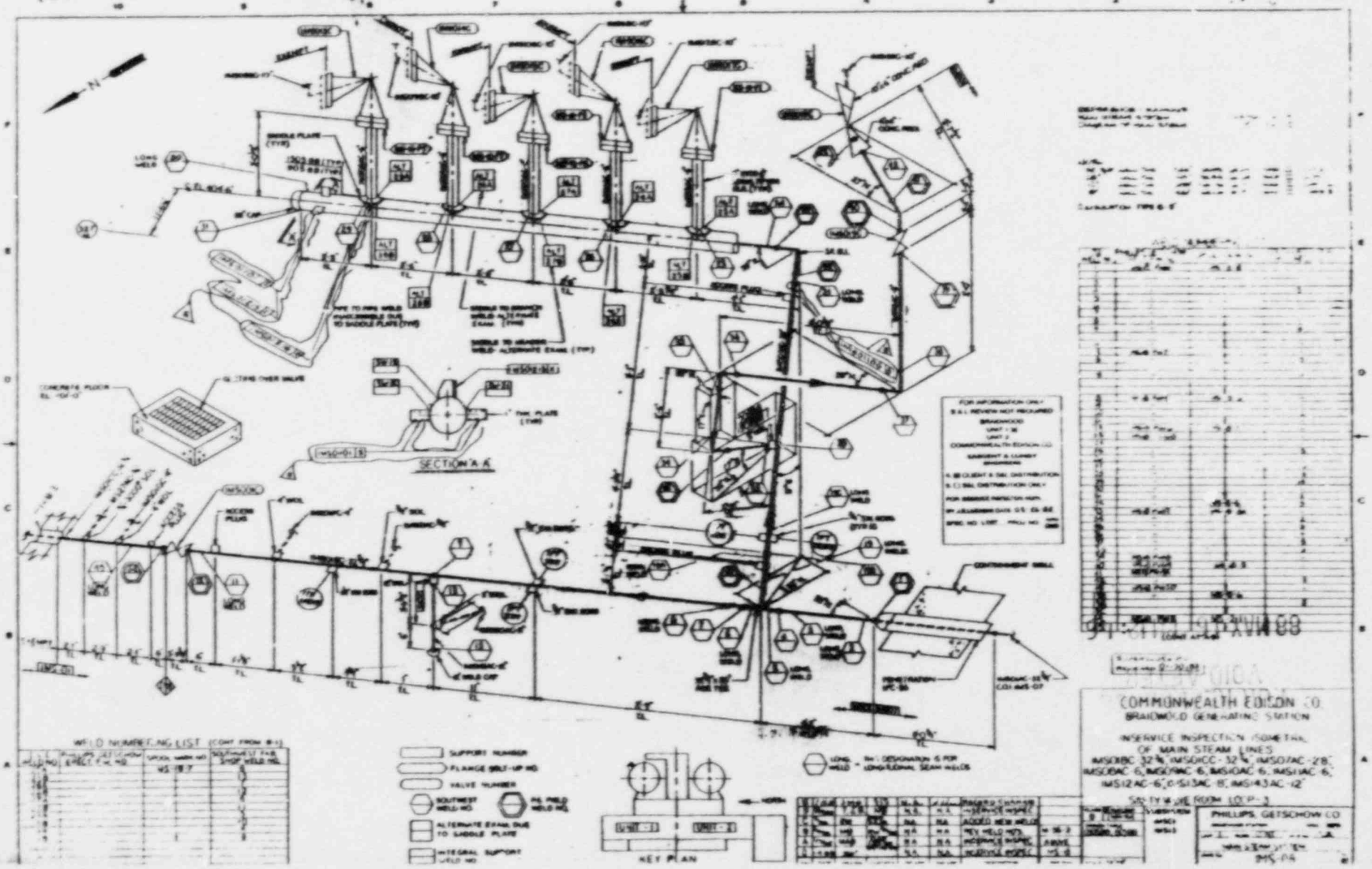
1MS-06


SECTION 'A-A'
WELD NUMBERING LIST (CONT.)
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF MAIN STEAM LINES
1MS01BB-32¾", 1MS01CB-32¾", 1MS01NB-28",
1MS05AB-6", 1MS05AB-6", 1MS10AB-6",
1MS11AB-6", 1MS12AB-6", 1MS13AB-8", 1MS14.5AB-12"
SAFETY VALVE ROOM (LOOP 2)
PHILLIPS, GETSCHOW CO
MAIN STEAM
1MS-06

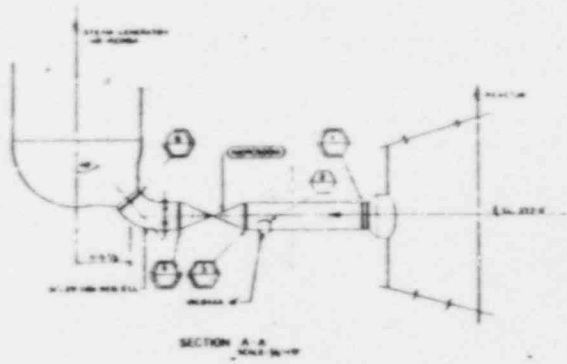
IMS-07

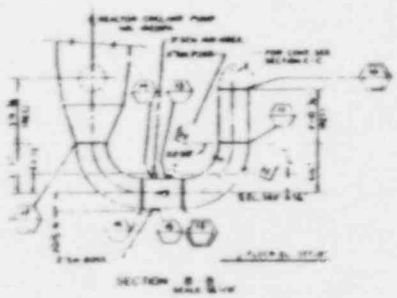

N
SECTION 'AA'
KEY PLAN
SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SOCKET WELD NO.
PIPE TO PIPE BUTT WELD NO.
GENERAL NOTES
LONG WELD - THIS DESIGNATION IS FOR HORIZONTAL SEAM WELDS
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
12" MAIN STEAM LINE
INSOAC-12"M"
INSIDE CONTAINMENT (LOOP-1)
PHILLIPS, GETSCHOW CO

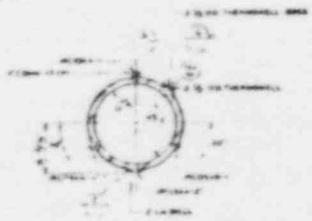
1MS-08

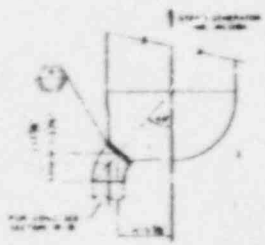

SECTION A-A
KEY PLAN
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF MAIN STEAM LINES
PHILLIPS GETSCHOW CO
MS-04

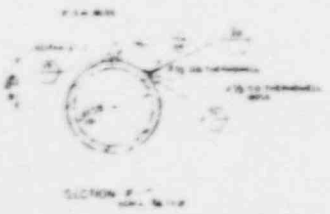
IRC-01

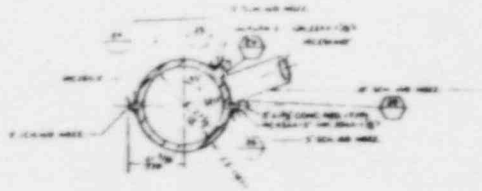


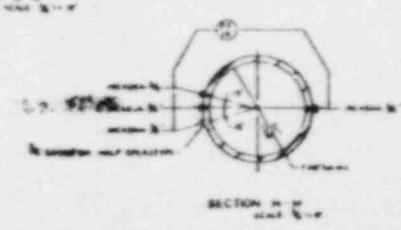








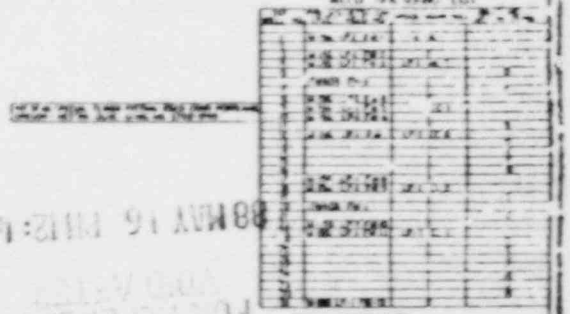


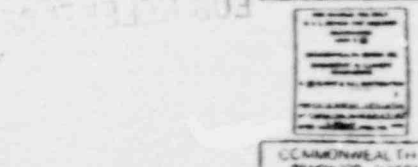


CALIBRATION BLOCK NUMBERS

LINE INFORMATION			

REFERENCE DRAWINGS

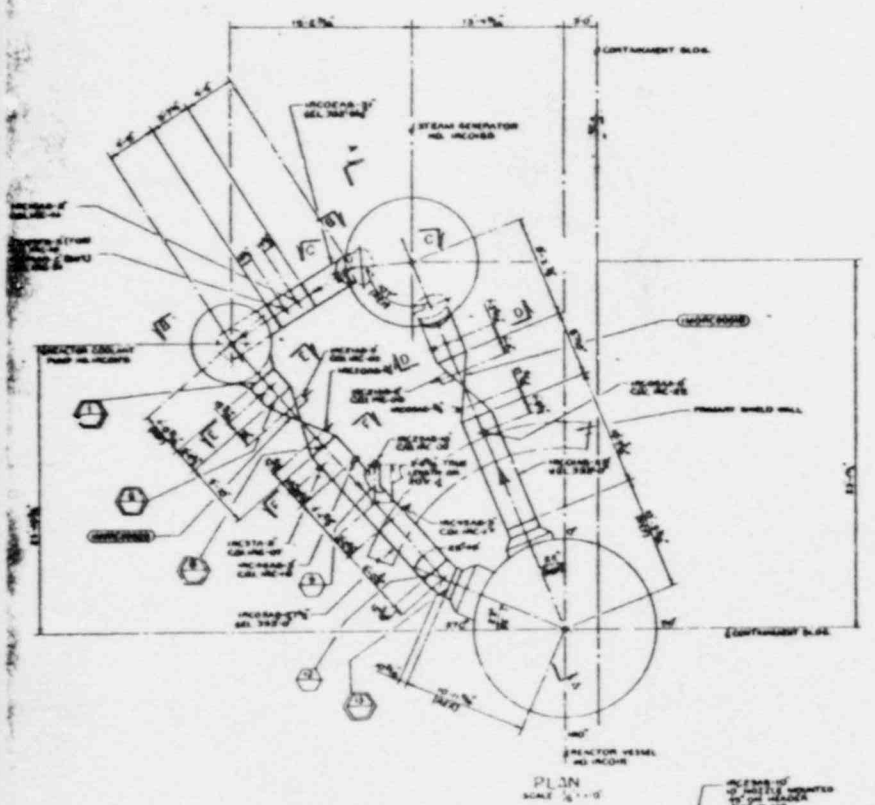




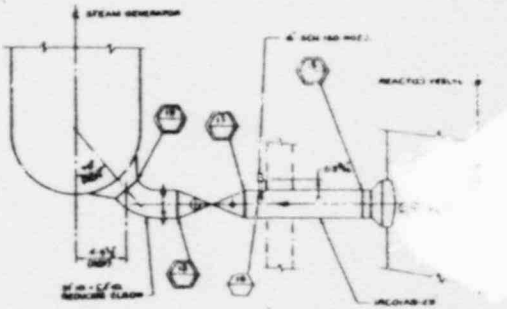
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION

SECTION IDENTIFICATION DWG.
FOR INSERVICE INSPECTION

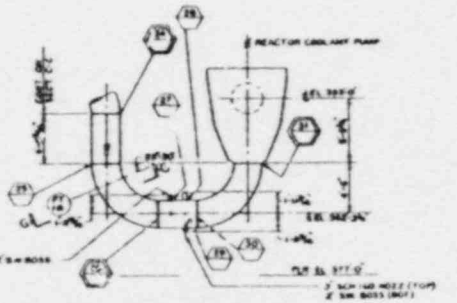
IRC-02



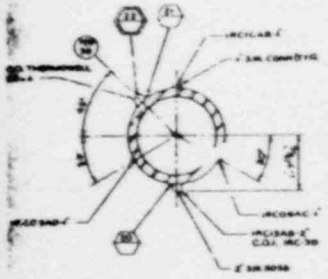
PLAN



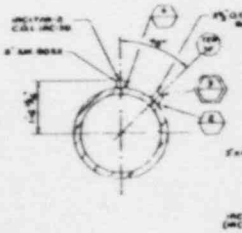
SECTION A-A



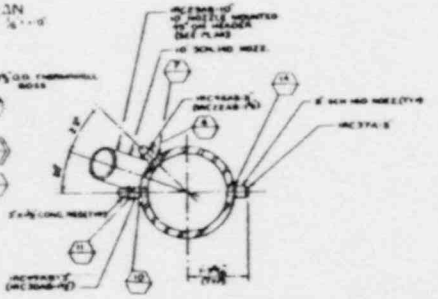
SECTION B-B



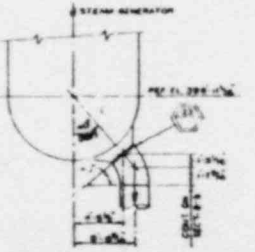
SECTION D-D



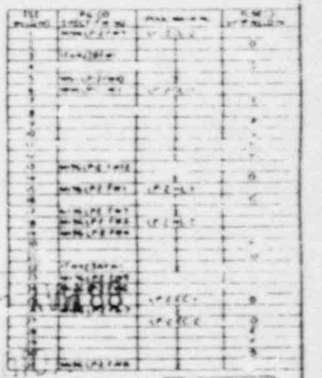
SECTION E-E

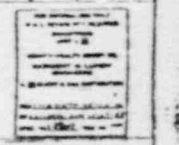


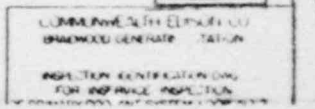
SECTION F-F



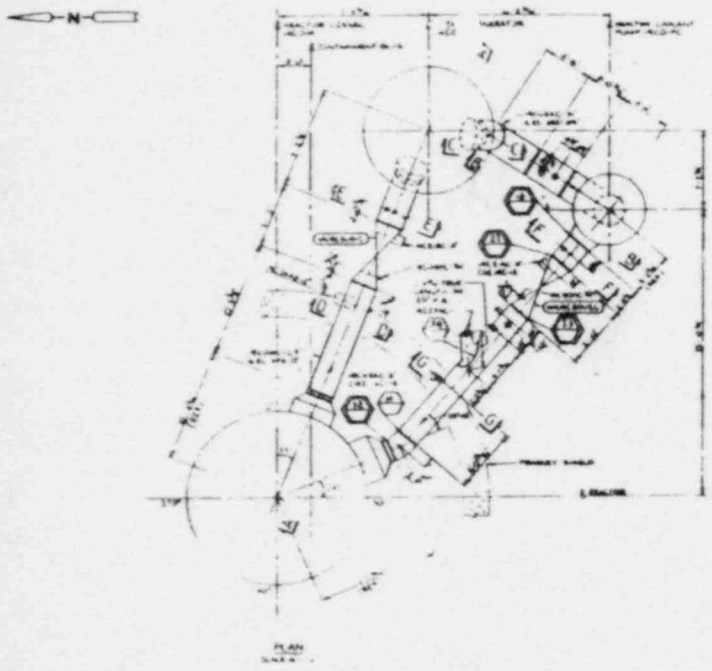
SECTION C-C

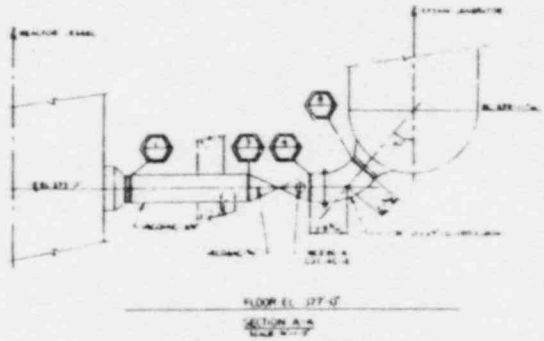


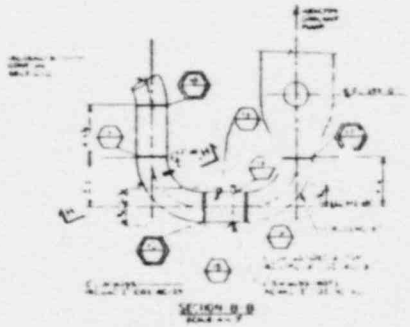


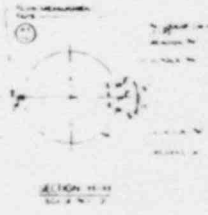


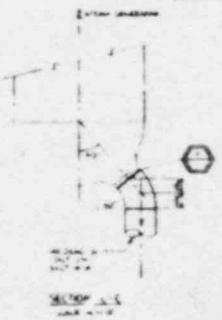
IRC-03

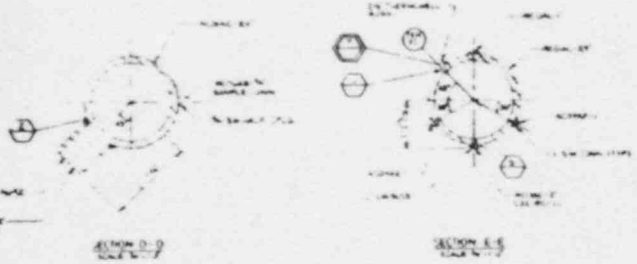


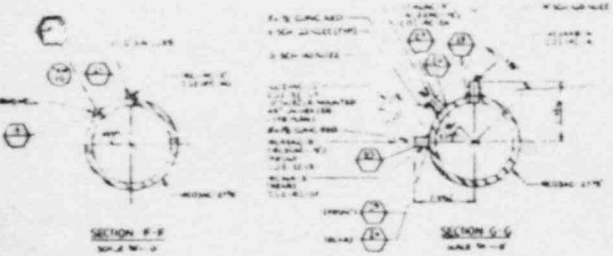






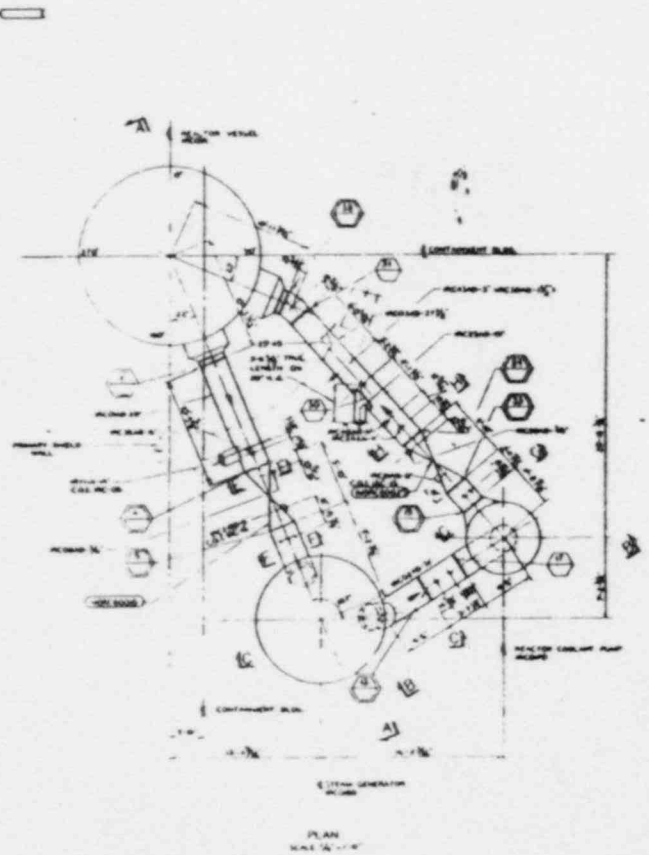




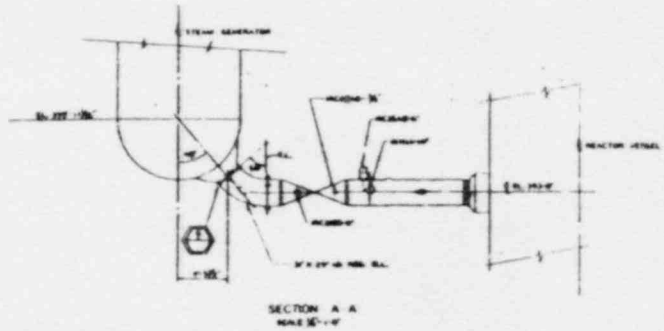


88 MAY 16 PM 12:46

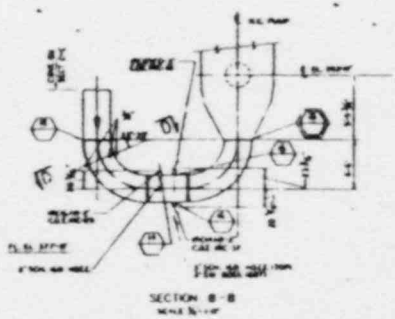
IRC-04



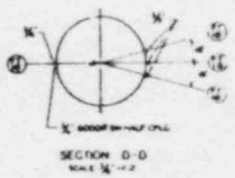
PLAN



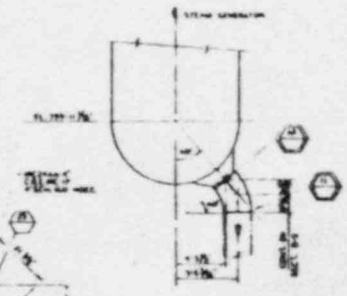
SECTION A-A



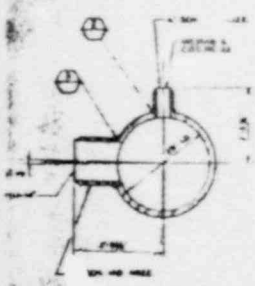
SECTION B-B



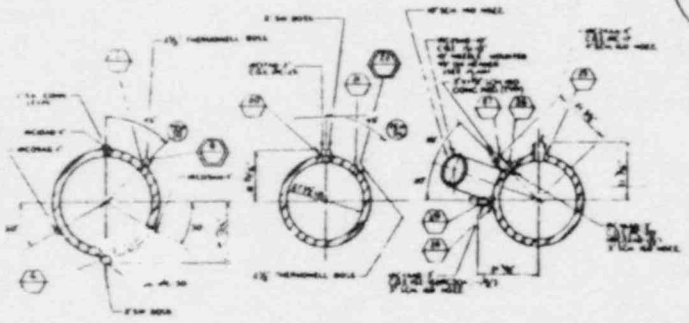
SECTION D-D



SECTION C-C



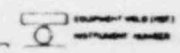
SECTION E-E

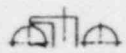


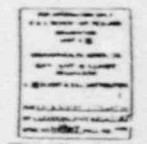
SECTION F-F

SECTION G-G

SECTION H-H

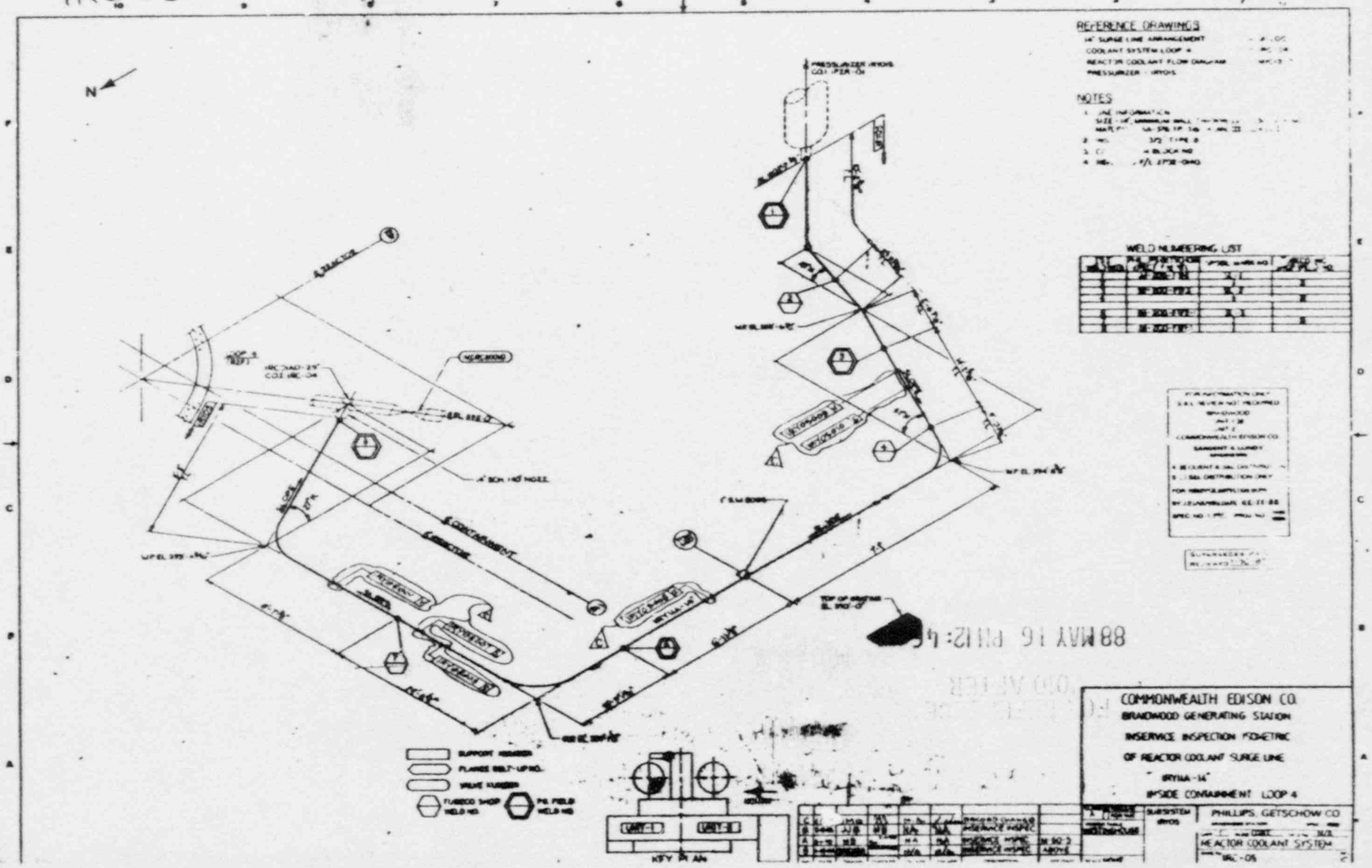




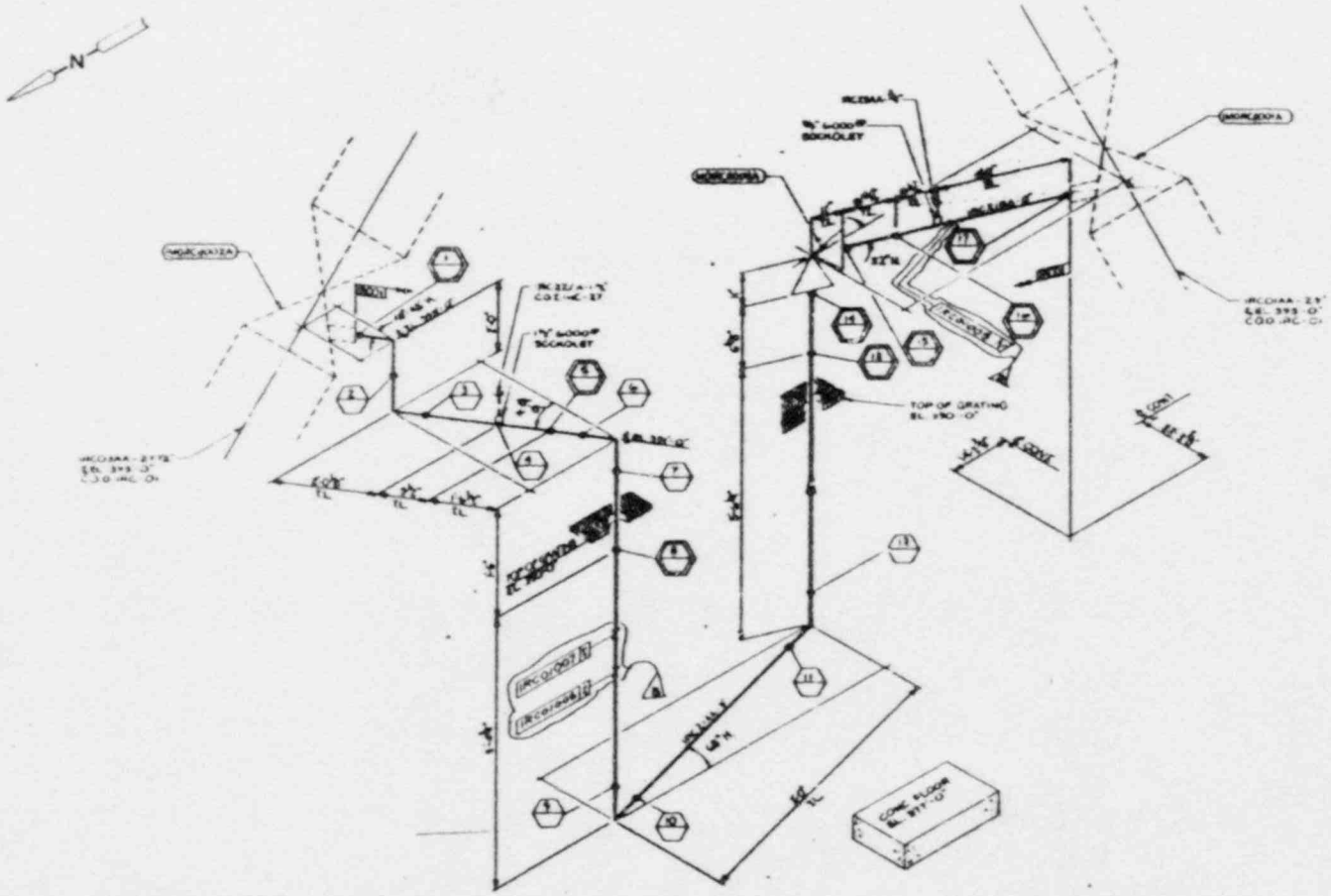


COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
REFERENCE INJECTION OF PRIMARY COOLANT SYSTEM
LOOP 4 TO STEAM GENERATOR NO

IRC-05


REFERENCE DRAWINGS
NOTES
WELD NUMBERING LIST
N
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT SURGE LINE
"RYHA-14"
INSIDE CONTAINMENT LOOP 4
PHILLIPS, GETSCHOW CO
REACTOR COOLANT SYSTEM
IRC-05

1RC-06



WELD NUMBERING

VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO OF BOLTS	BOLT DIA	BOLT TYPE	VALVE MANUF	MANUF DWG NO

SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SHOP/WELD NO.
FIELD WELD NO.

KEY PLAN

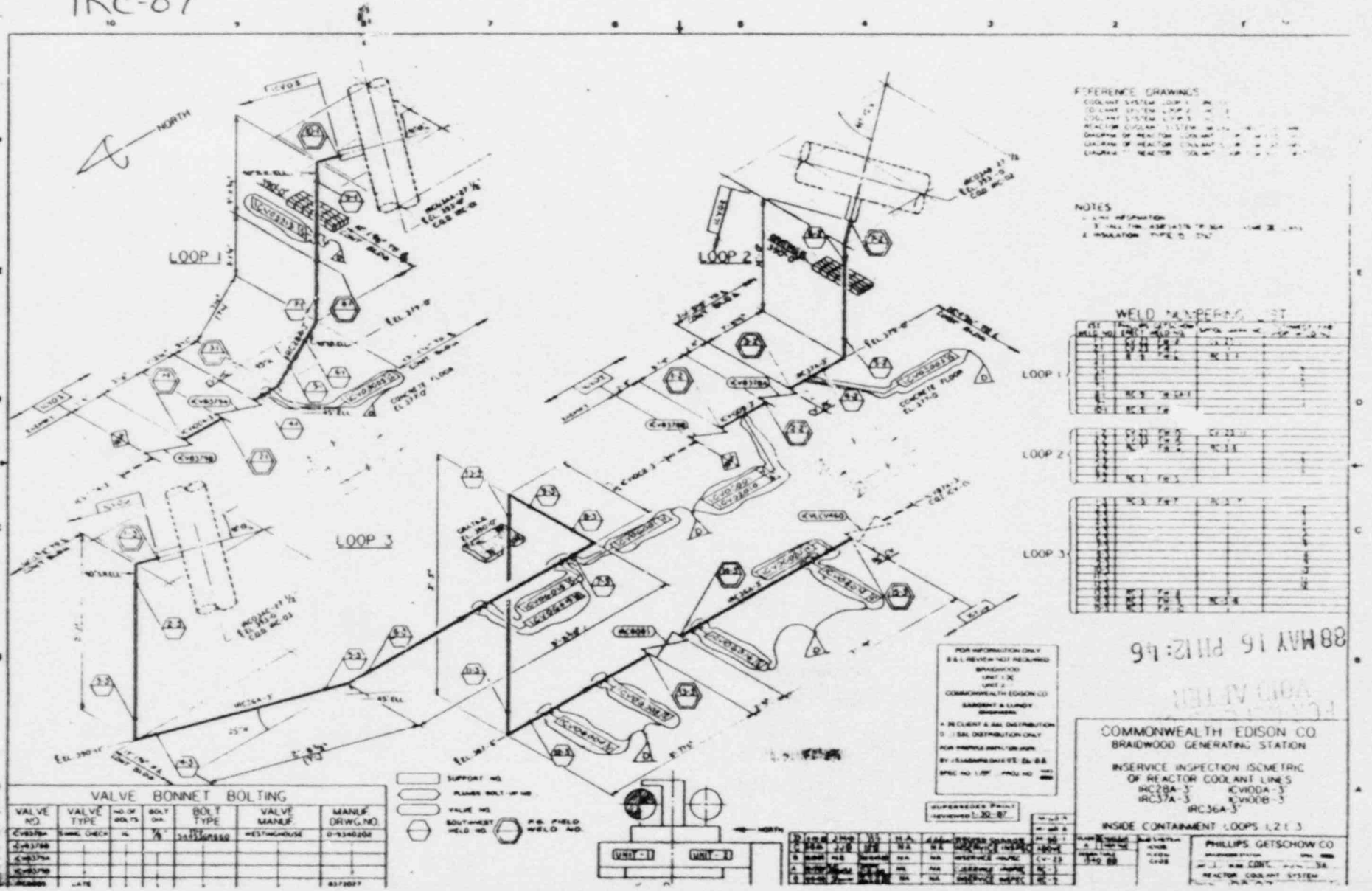
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT
LINES 1RC21AA-8" & 1RC21BA-8"
INSIDE CONTAINMENT LOOP 1

PHILLIPS GETSCHOW CO

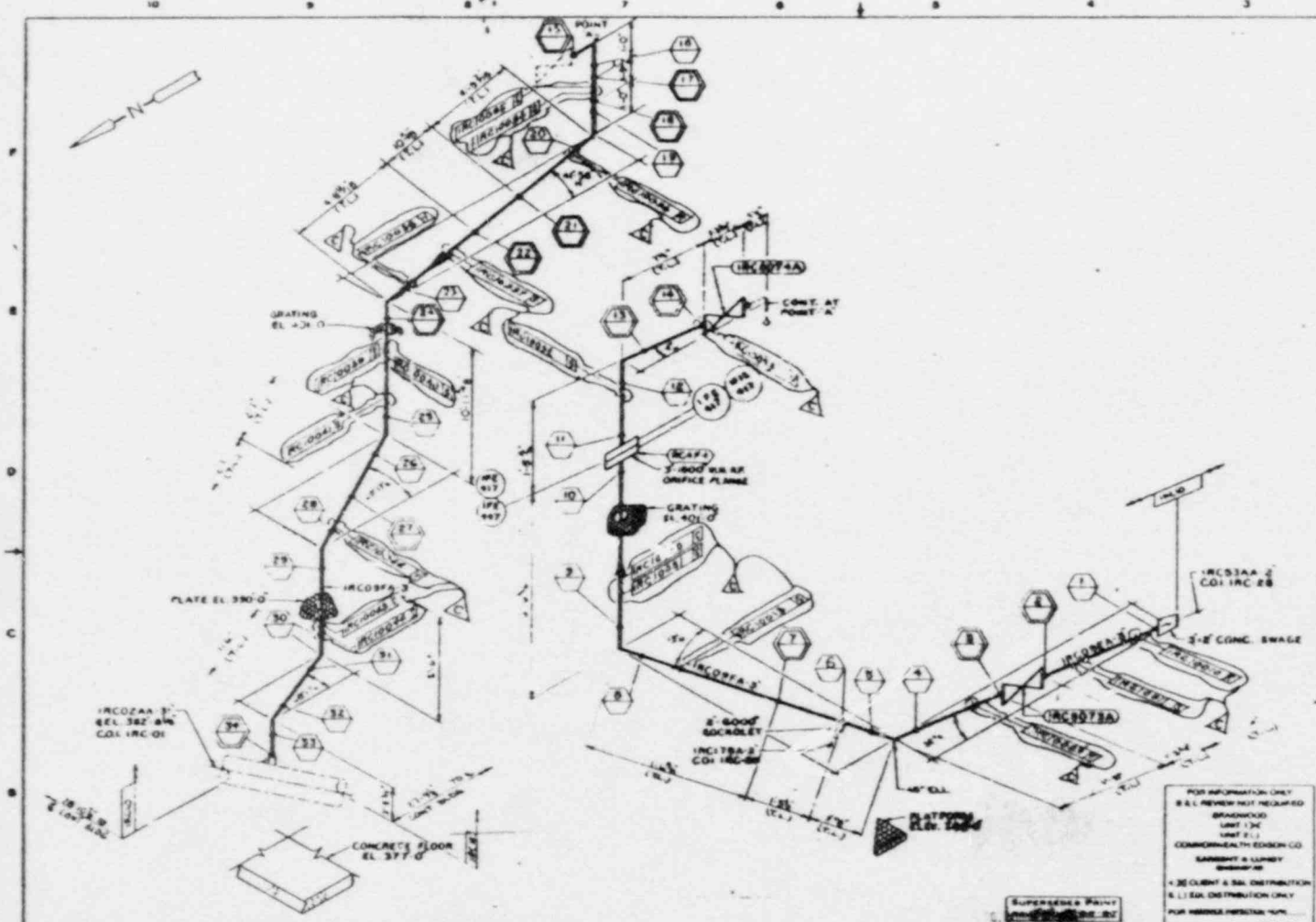
REACTOR COOLANT SYSTEM

1RC-06

1RC-07


NORTH
LOOP 1
LOOP 2
LOOP 3
REFERENCE DRAWINGS
NOTES
WELD MAPPING
LOOP 1
LOOP 2
LOOP 3
VALVE BONNET BOLTING
VALVE NO.
VALVE TYPE
NO. OF BOLTS
BOLT DIA.
BOLT TYPE
VALVE MANUF.
MANUF. DRWG. NO.
SUPPORT NO.
FLANGE BOLT UP NO.
VALVE NO.
SOUTHWEST WELD NO.
P.G. FIELD WELD NO.
FOR INFORMATION ONLY
B & L REVIEW NOT REQUIRED
BRAIDWOOD
UNIT 1 &
UNIT 2
COMMONWEALTH EDISON CO
SARGENT & LUNDY
ENGINEERS
A - RECIPIENT & S&L DISTRIBUTION
B - S&L DISTRIBUTION ONLY
FOR PARTIAL DISTRIBUTION
BY (INITIALS) DATE EL. 88
SPEC NO. 1/2P PROJ NO.
SUPERSEDES Print
reviewed 1-30-87
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
1RC28A-3 1CV100A-3
1RC37A-3 1CV100B-3
1RC36A-3
INSIDE CONTAINMENT LOOPS 1, 2 & 3
PHILLIPS GETSCHOW CO
REACTOR COOLANT SYSTEM
88 MAY 16 PM 12:46

IRC-08



REFERENCE DRAWINGS
COOLANT SYSTEM LOOP 1 - IRC-01
REACTOR COOLANT SYSTEM - M-142-1
DIAGRAM OF R.C. SYSTEM - M-101-1

NOTES:
LINE INFORMATION
1. WALL THK. .438
ASME III CL 1
2. INSULATION

WELD NUMBER

WELD NO.	ERECT FW NO	SHOP FW NO	BOLT-ON
1			2
2	RC-1FW1	1	
3	RC-1FW3	RC-1FW3A	
4			2
5			3
6			
7	RC-1FW5A		
8			4
9			5
10		1	4
11		RC-1FW3	2
12			3
13	RC-1FW4A		
14	RC-1FW4	1	
15	RC-1FW3	RC-1FW2	
16			5
17	RC-1FW2D		
18	RC-1FW2C		
19			4
20			3
21	RC-1FW2B		
22	RC-1FW2A		
23		1	2
24	RC-1FW2-1	RC-1FW1	
25			3
26			8
27	RC-1FW1A		
28			7
29			6
30			5
31			4
32			3
33			2
34	RC-1FW1		

88 MAY 16 PM 12:46

FOR INFORMATION ONLY
B & L REVIEW NOT REQUIRED
BRAIDWOOD
UNIT 1 [X]
UNIT 2 [ ]
COMMONWEALTH EDISON CO.
SARGENT & LUNDY
[X] CLIENT & SAL DISTRIBUTION
[ ] S&L DISTRIBUTION ONLY

SUPERSEDES PRINT

VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUFACTURER	MANUFACTURER DWG. NO.
IRC-073A	GATE	16	1"	STUD SA193, B7/2H	WESTINGHOUSE	8372027
IRC-074A	"	"	"	"	"	"

SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SOUTHWEST WELD NO.
FIELD WELD NO.

KEY PLAN

REV	DESCRIPTION	DATE	APPROVED
C	ISO. REVISED PER FIELD MARKUPS	5-4-88	
B	ISO. REVISED PER FIELD MARKUPS	4-15-88	
A	ISO. REVISED PER FIELD MARKUPS	3-31-88	

ISO. ABOVE REVISED PER INSERVICE INSPEC. N.A. N.A. INSERVICE INSPEC. RC-B RC-C

ISO.	DRAWING	SHEET	REV.

DESIGNED	
DRAWN	
CHECKED	
QUALITY ASSURANCE	
APPROVED	
DATE	5-4-88

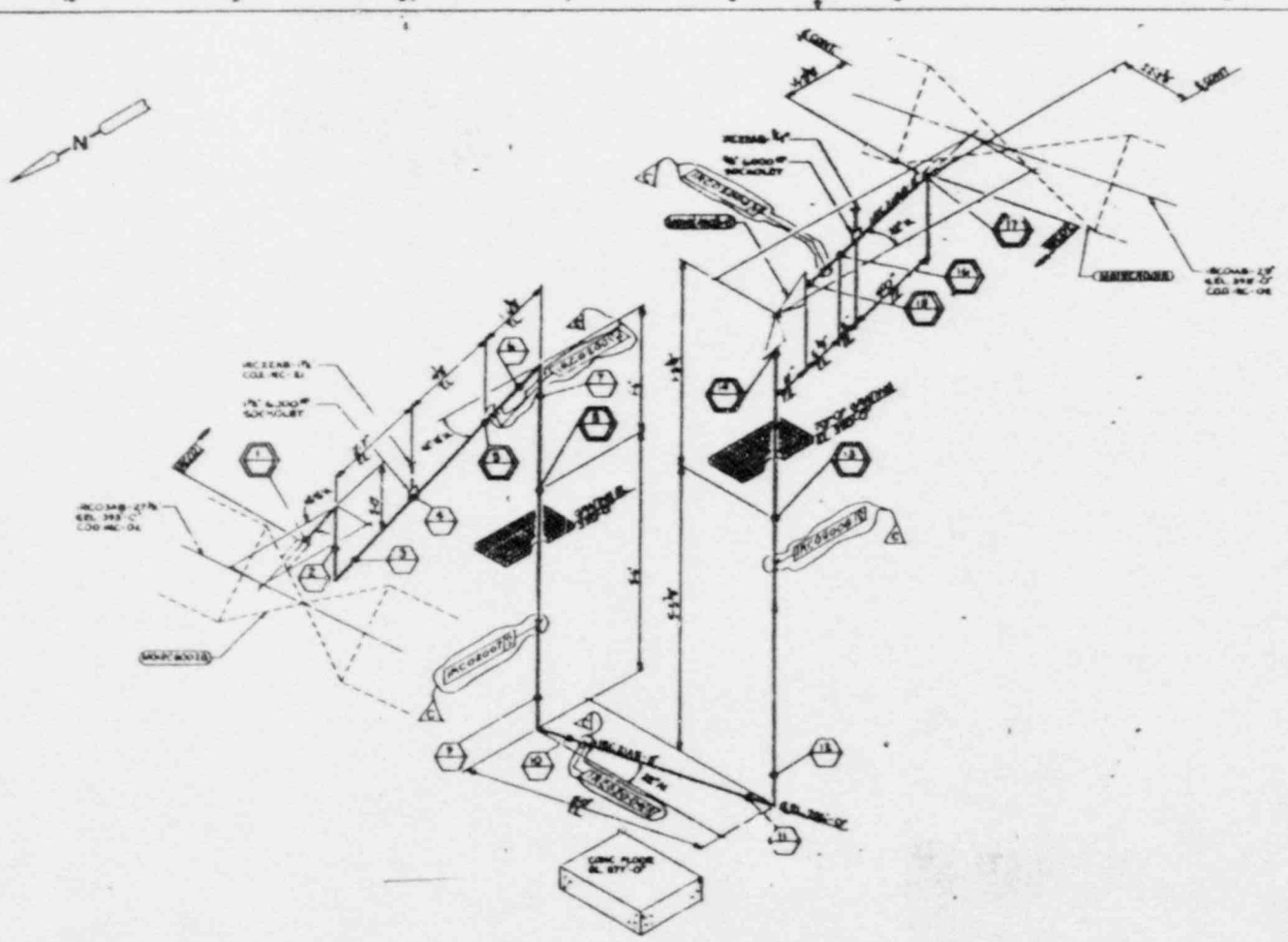
SCALE	NONE
SIZE	D

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES 1RC05EA 3" & 1RC05EA 3" INSIDE CONTAINMENT
(LOOP 1)

PHILLIPS GETSCHOW CO

REACTOR COOLANT
1RC-08

IRC-09



WELD NUMBERING

VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO OF BOLTS	BOLT DIA	BOLT TYPE	VALVE MANUF	MANUF (MFG. NO)
MOR08002B	ANGLE GLOBE	12	1 1/8"	STUD BOLTS	COPES - VULCAN	E-26709H

SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SOLIDWELD NO.
PG FIELD WELD NO.

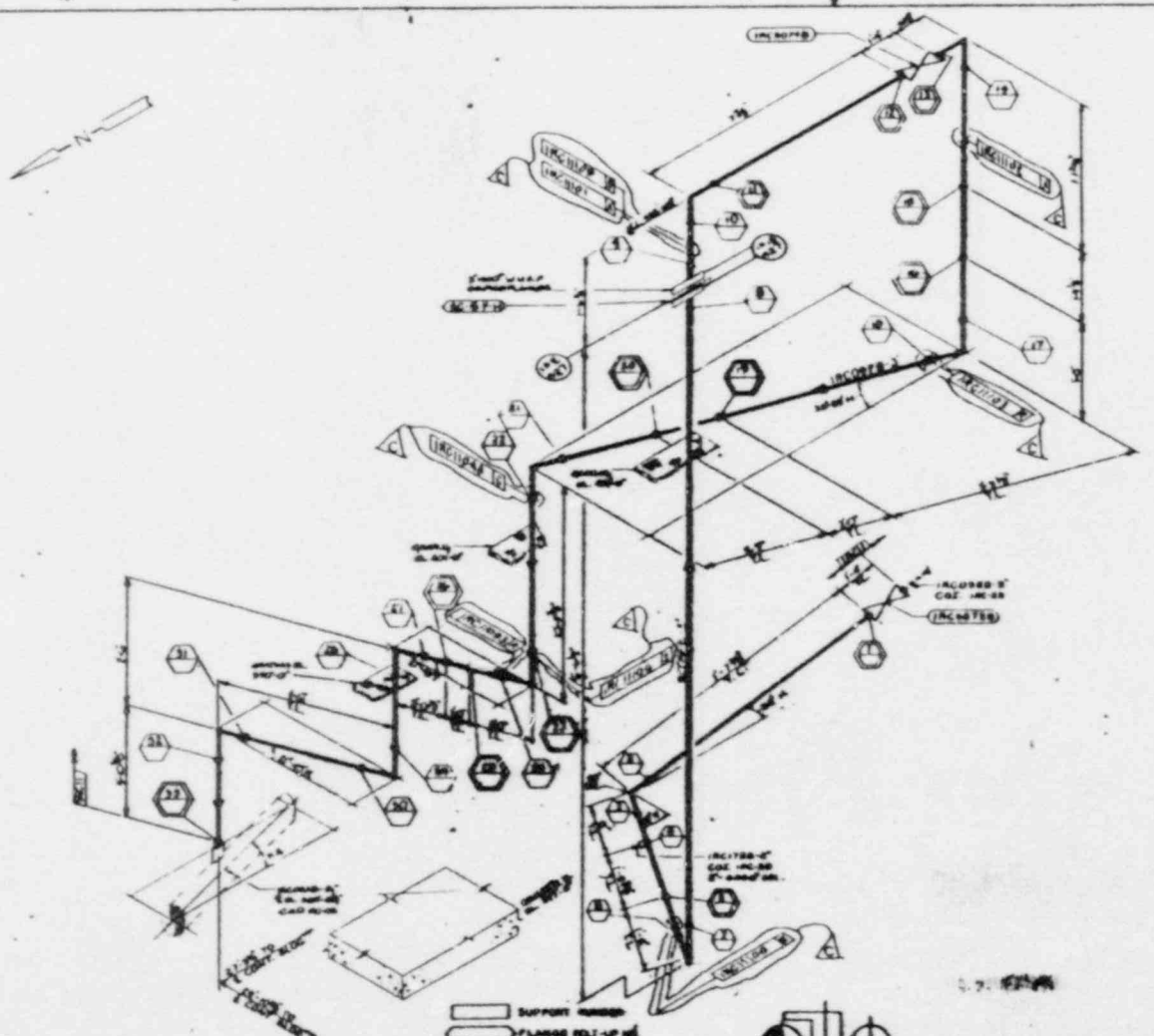
KEY PLAN

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINE
IRC21AB-8" IRC21BB-8"
INSIDE CONTAINMENT (LOOP 2)

PHILLIPS, GETSCHOW CO

REACTOR COOLANT SYSTEM
IRC-09

IRC-10



VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DRWG. NO.
[illegible]	GATE	4	7/8	[illegible]	WESTINGHOUSE	827027
[illegible]	GATE	4	7/8	[illegible]	WESTINGHOUSE	827027

FOR INFORMATION ONLY
B & L REVIEW NOT REQUIRED
BRAIDWOOD
UNIT 1 [illegible]
UNIT 2 [illegible]
COMMONWEALTH EDISON CO
SARGENT & LUNDY ENGINEERS
A [illegible] CLIENT & S&L DISTRIBUTION
B [illegible] S&L DISTRIBUTION ONLY
FOR AUTHORIZATION SEE EA-[illegible]
BY [illegible] DATE [illegible]
SPEC NO. [illegible] P.O. NO. [illegible]

SUPERSEDES PRINT REVISED [illegible]

88 MAY 16 P1:12:46

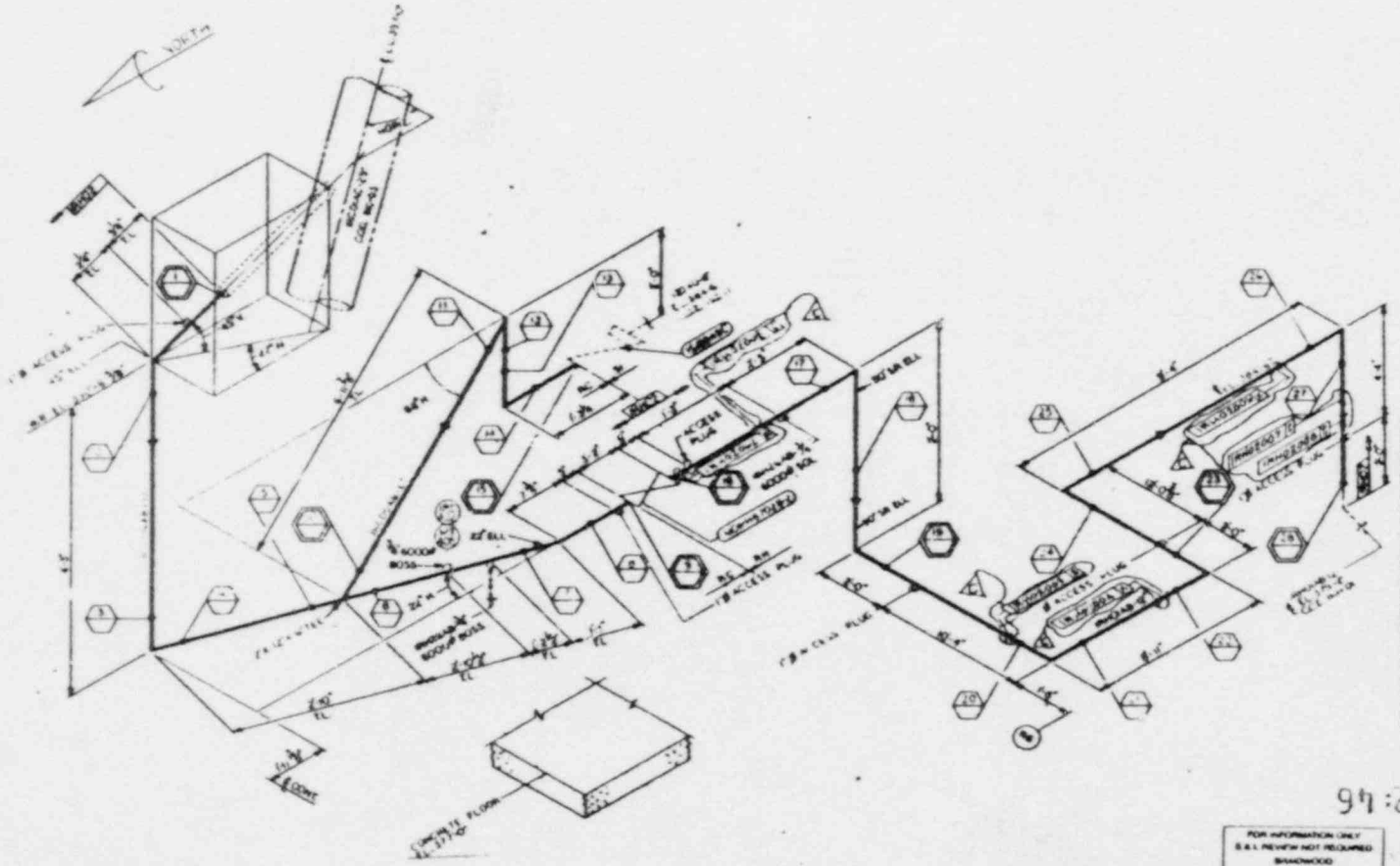
KEY PLAN

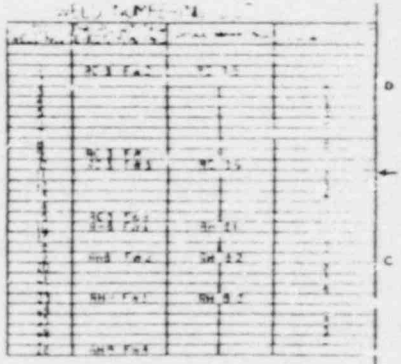
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
IRC-10-1
INSIDE CONTAINMENT LOOP-2

PHILLIPS, GETSCHOW CO

REACTOR COOLANT SYSTEM

1RC-11

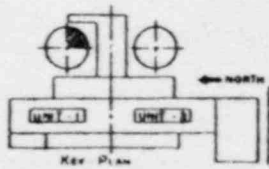




88 MAY 16 PM 12:46

VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MAKE	MAKER DRWG. NO.

SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SHOP WELD NO.
FIELD WELD NO.



FOR INFORMATION ONLY
B.E.I. REVISION NOT REQUIRED
BRAIDWOOD
UNIT 1
UNIT 2
COMMONWEALTH EDISON CO.
SARGENT & LUNDY
ENGINEERS
B. CLASS DISTRIBUTION ONLY
FOR SERVICE INSPECTION ONLY
BY J. GLASSMAN DATE 02-24-88
SPEC. NO. 1.02C... FIELD NO. ...

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
1RC04AB-12" 1RC05AB-6"
RESIDUAL HEAT REMOVAL LINE 1RH01AB-12"
INSIDE CONTAINMENT, LOOP 3

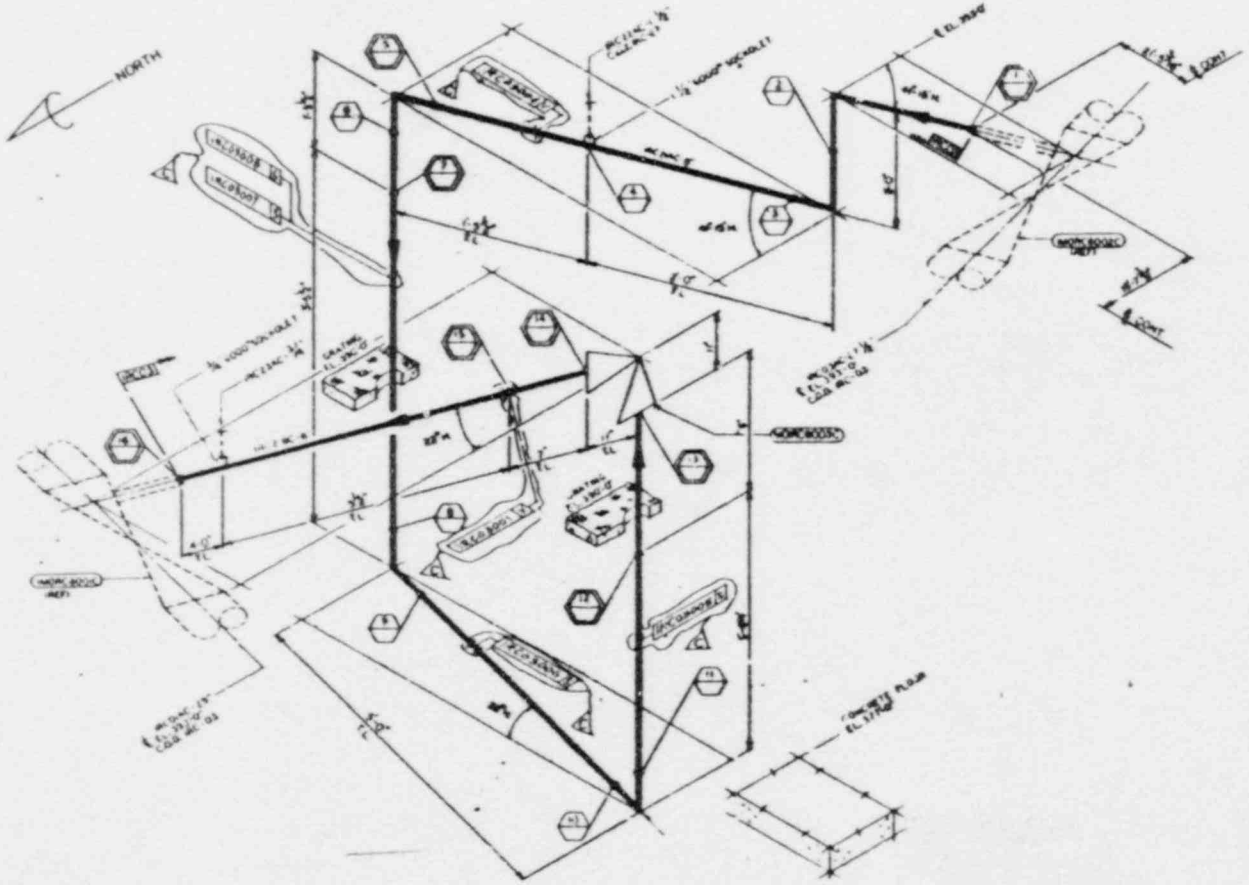
C	6/87	AMG	JJB	NA	NA	REVISED DRAWING	N-62-3		
B	5/87	JJB	JJB	NA	NA	INSERVICE INSPEC			
A	2/87	MAB	DCM	NA	NA	INSERVICE INSPEC			
0	8/86		DCM	NA	NA	INSERVICE INSPEC			

SUB-SYSTEM 1RH02

PHILLIPS GETSCHOW CO

1RC-11

1RC-12



REFERENCE DRAWINGS:

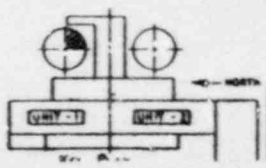
NOTES:

WELD NUMBERING LIST

WELD NO.	LOOP	SYS.	PIPING SPEC.	DIAM.	REMARKS

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DRWG. NO.

SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NO.
SOUTHWEST WELD NO.
PIPE FIELD WELD NO.



NO.	REVISION	BY	DATE	APPROVED

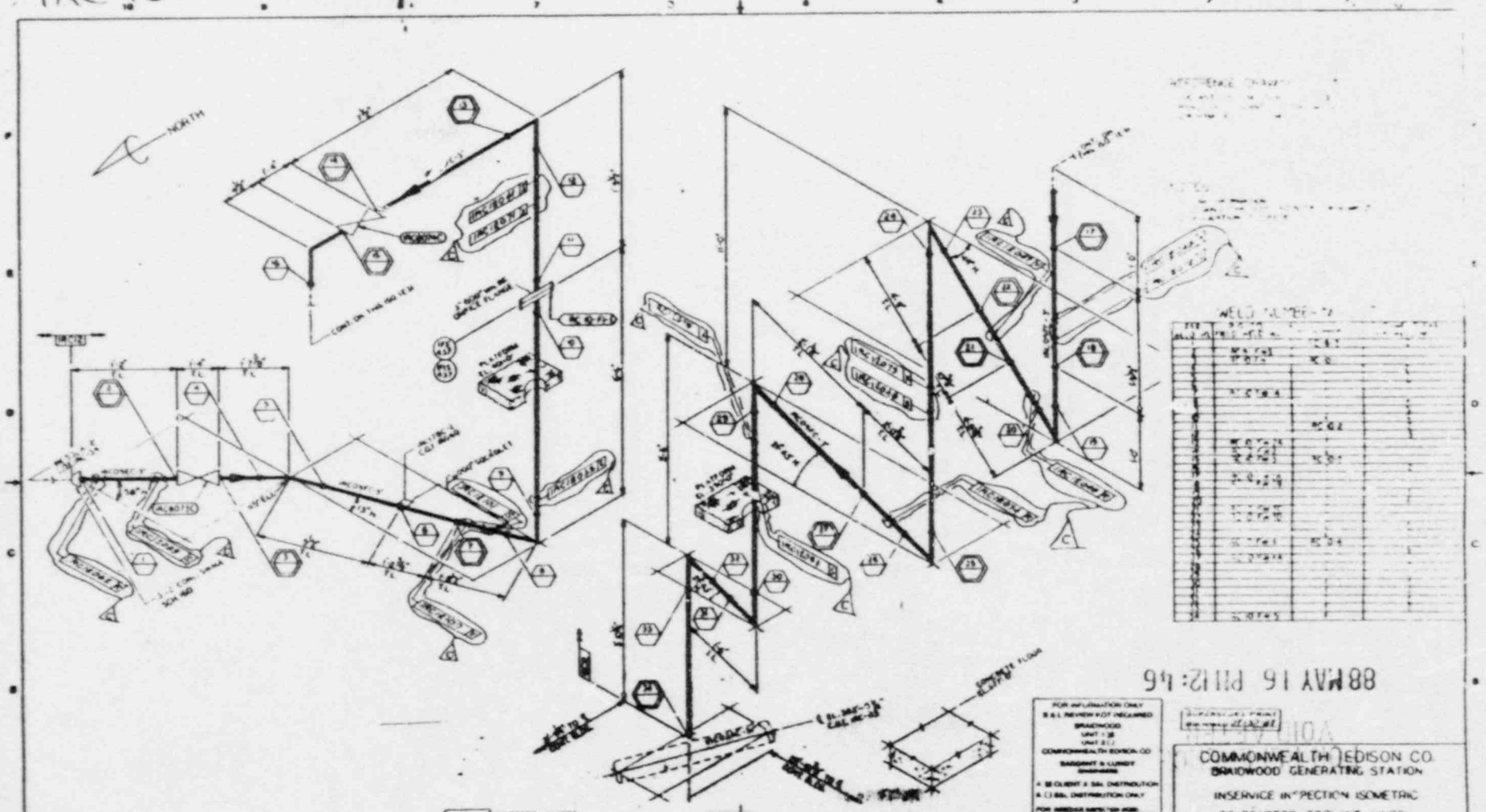
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
1RC21AC-B 1RC21BC-B

INSIDE CONTAINMENT LOOP 2

PHILLIPS, GITTSCHOW CO.

IRC-13



VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DRWG. NO.
1RC09FC	GATE	16	1"	SA193-B8M2	WESTINGHOUSE	6372D37
1RC09FC	1	1	1	1	1	1

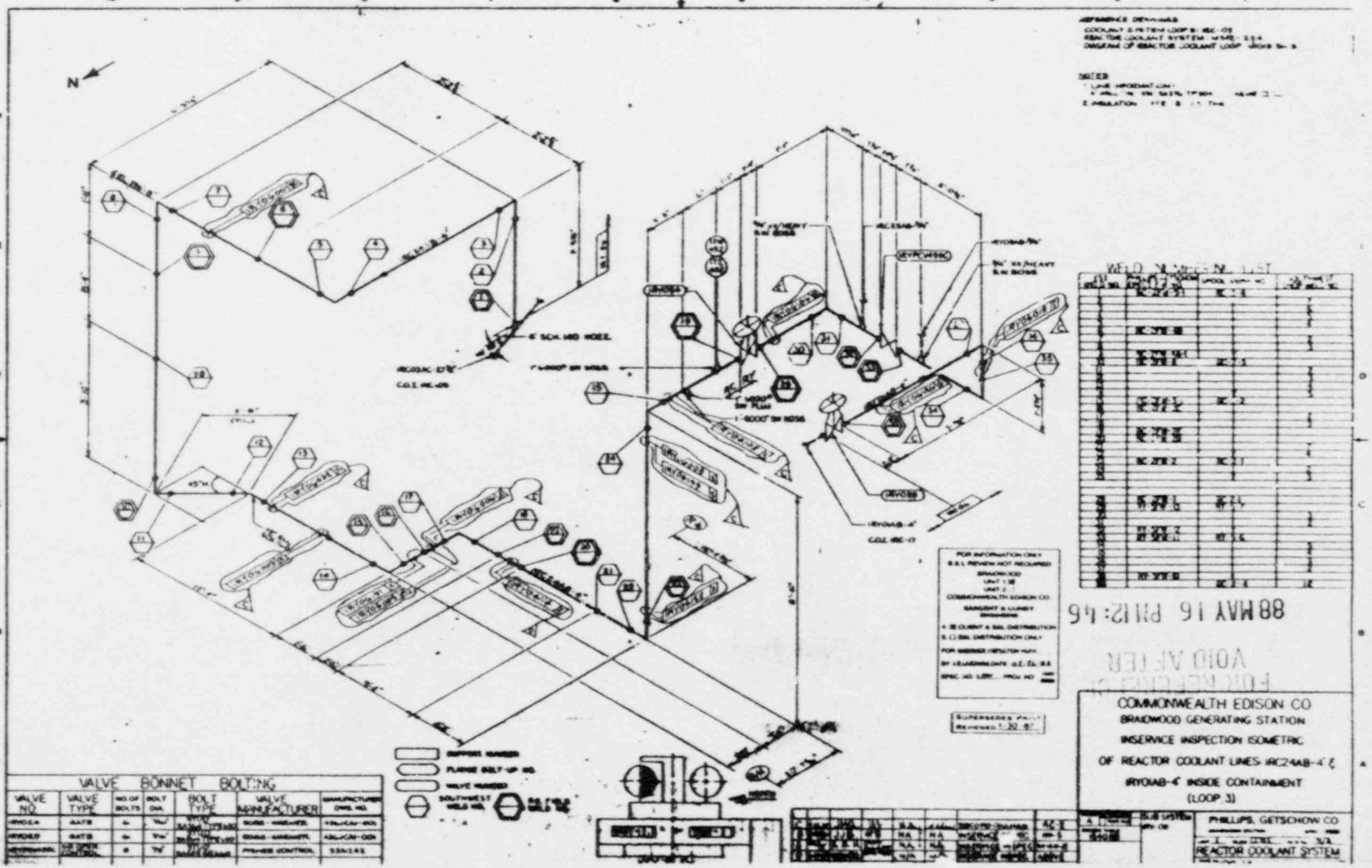
FOR INFORMATION ONLY
B & L REVIEW NOT REQUIRED
BRAIDWOOD
UNIT 1 & 2
COMMONWEALTH EDISON CO
SARGENT & LUNDY
A. (2) CLIENT & B&L DISTRIBUTION
B. (3) B&L DISTRIBUTION ONLY
FOR INFORMATION ONLY
BY: J.R. HENDRICKS DATE: 6-15-88
SPEC. NO. 1/2/3/ PROJ. NO.

88 MAY 16 PM 12:46

COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
1RC09EC-3" 1RC09FC-3"
INSIDE CONTAINMENT LOOP 3

PHILLIPS GETSCHOW CO.
IRC-13

1RC-14



VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUFACTURER	MANUFACTURER DWG. NO.
1RY014	GATE	4	1"			
1RY015	GATE	4	1"			

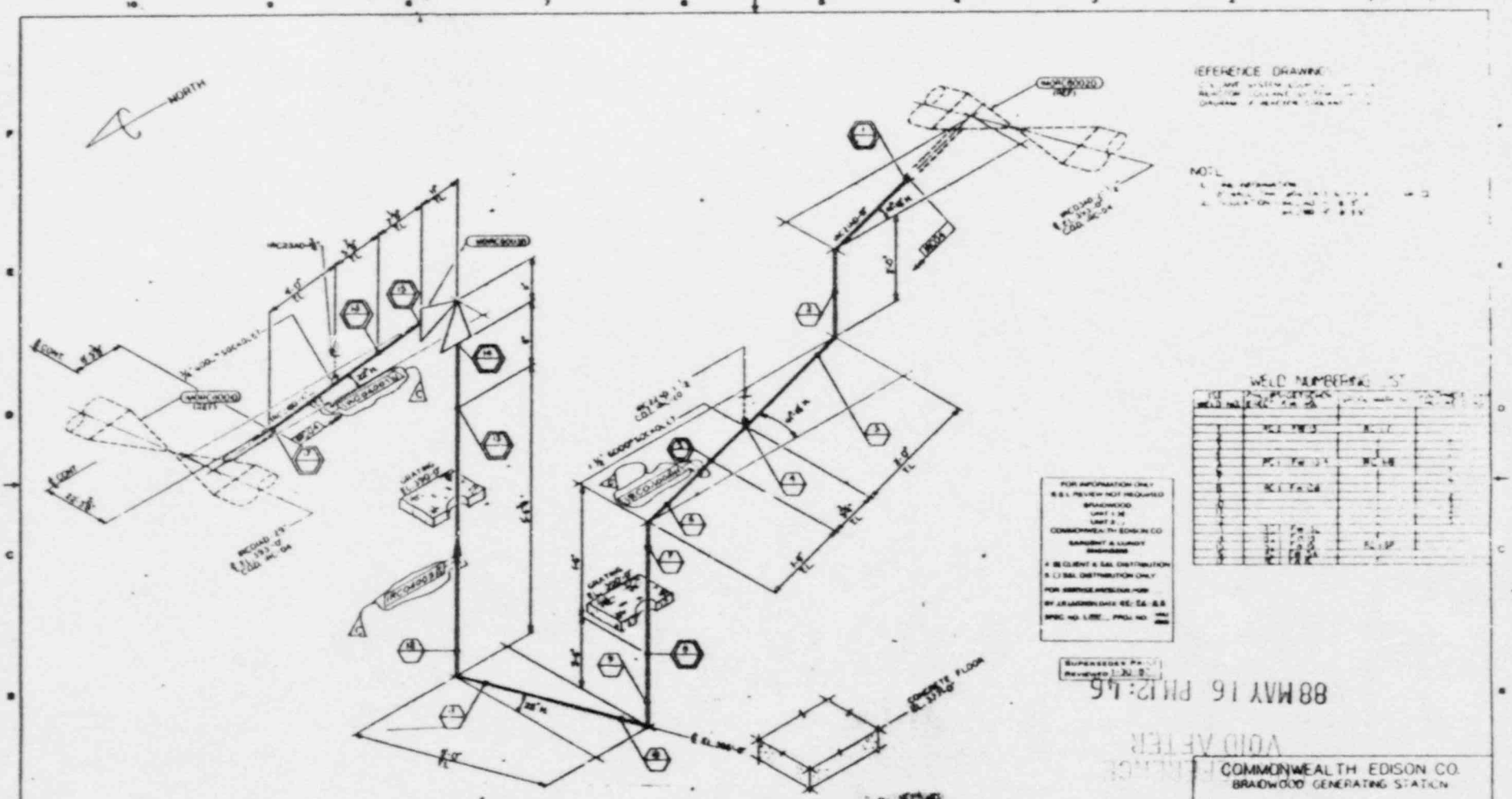
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES 1RC24AB-4"ξ
1RY01AB-4" INSIDE CONTAINMENT
(LOOP 3)

PHILLIPS, GETSCHOW CO

REACTOR COOLANT SYSTEM

88 MAY 16 PM 12:46

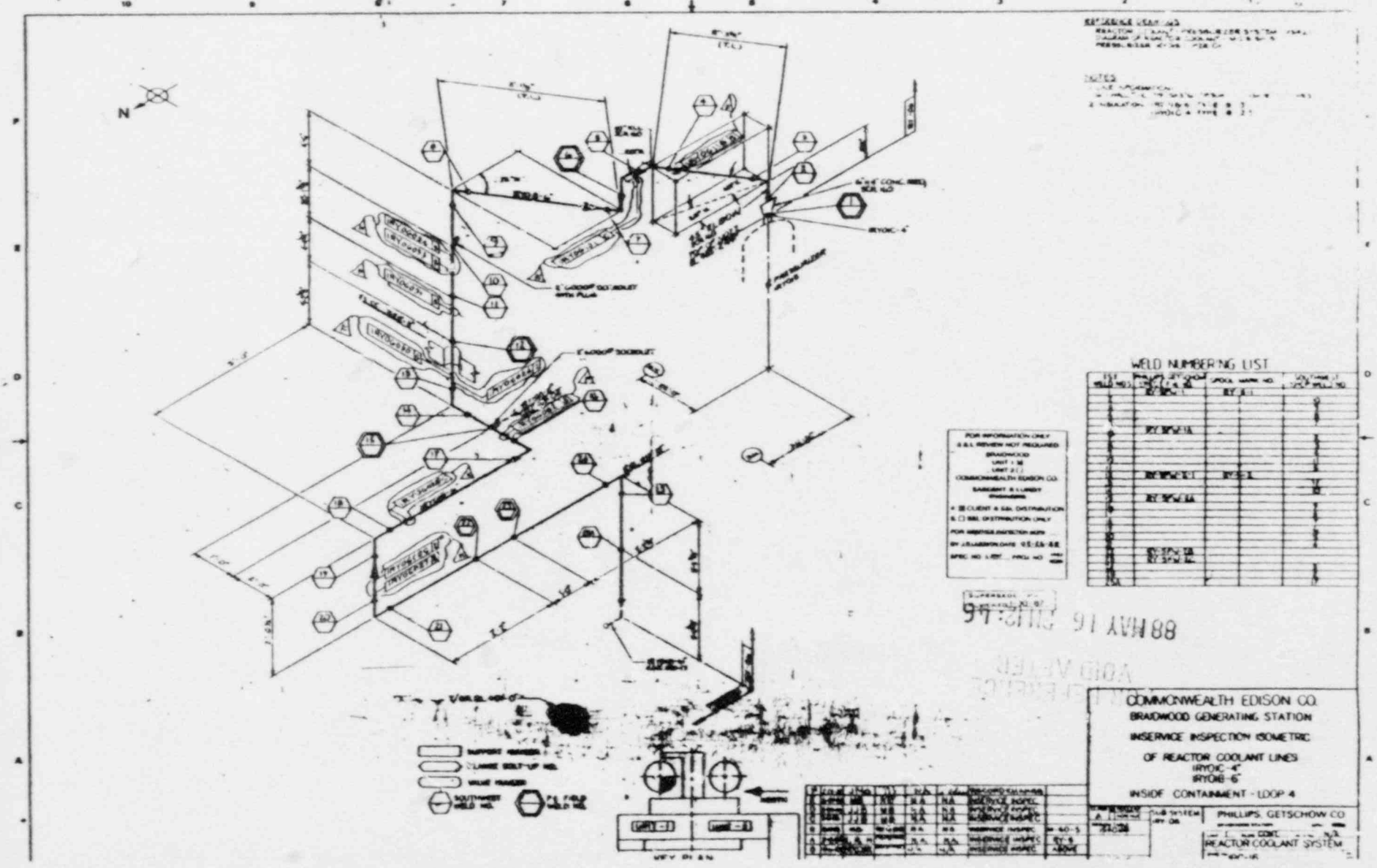
IRC-15



VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DRWG. NO.
1RC8000	ANGLE GLOBE	12	1 3/8	STUD BOLTS	COPES-VULCAN	E-67285

IRC-16



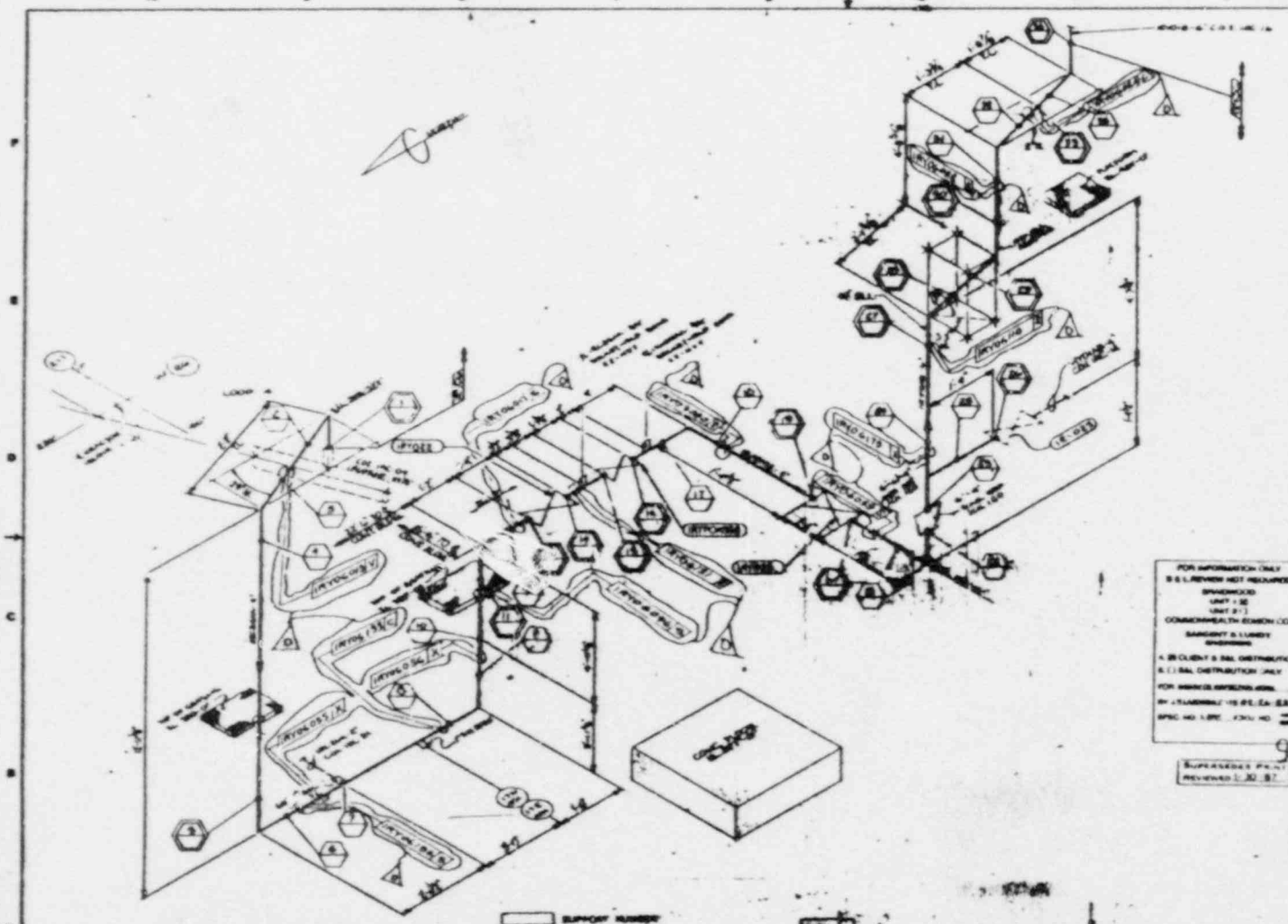
WELD NUMBERING LIST

COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
1RY01C-4"
1RY01B-6"
INSIDE CONTAINMENT - LOOP 4

PHILLIPS, GETSCHOW CO

REACTOR COOLANT SYSTEM

IRC-17



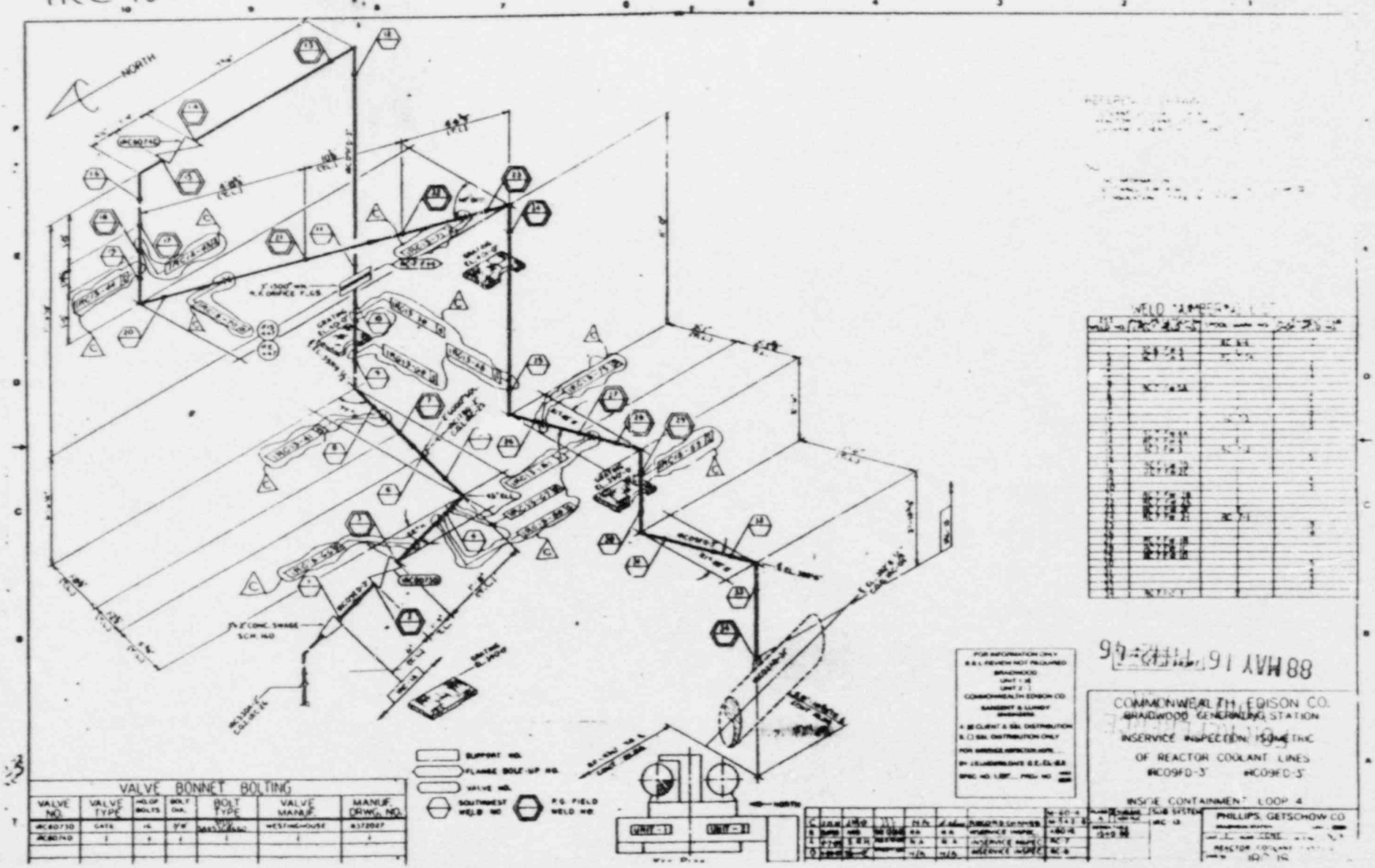
VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MAKER	MAKER DRWG. NO.

COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
RC24AA-4", 1RY01AA-4",
1RY01AB-4" 1RY01B-6"
INSIDE CONTAINMENT, LOOP-4

PHILLIPS GETSCHOW CO

IRC-17

IRC-18



VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DRWG. NO.
1RC8070	GATE	16	3/4"	STUD	WESTINGHOUSE	8372067
1RC8040	〃	〃	〃	〃	〃	〃

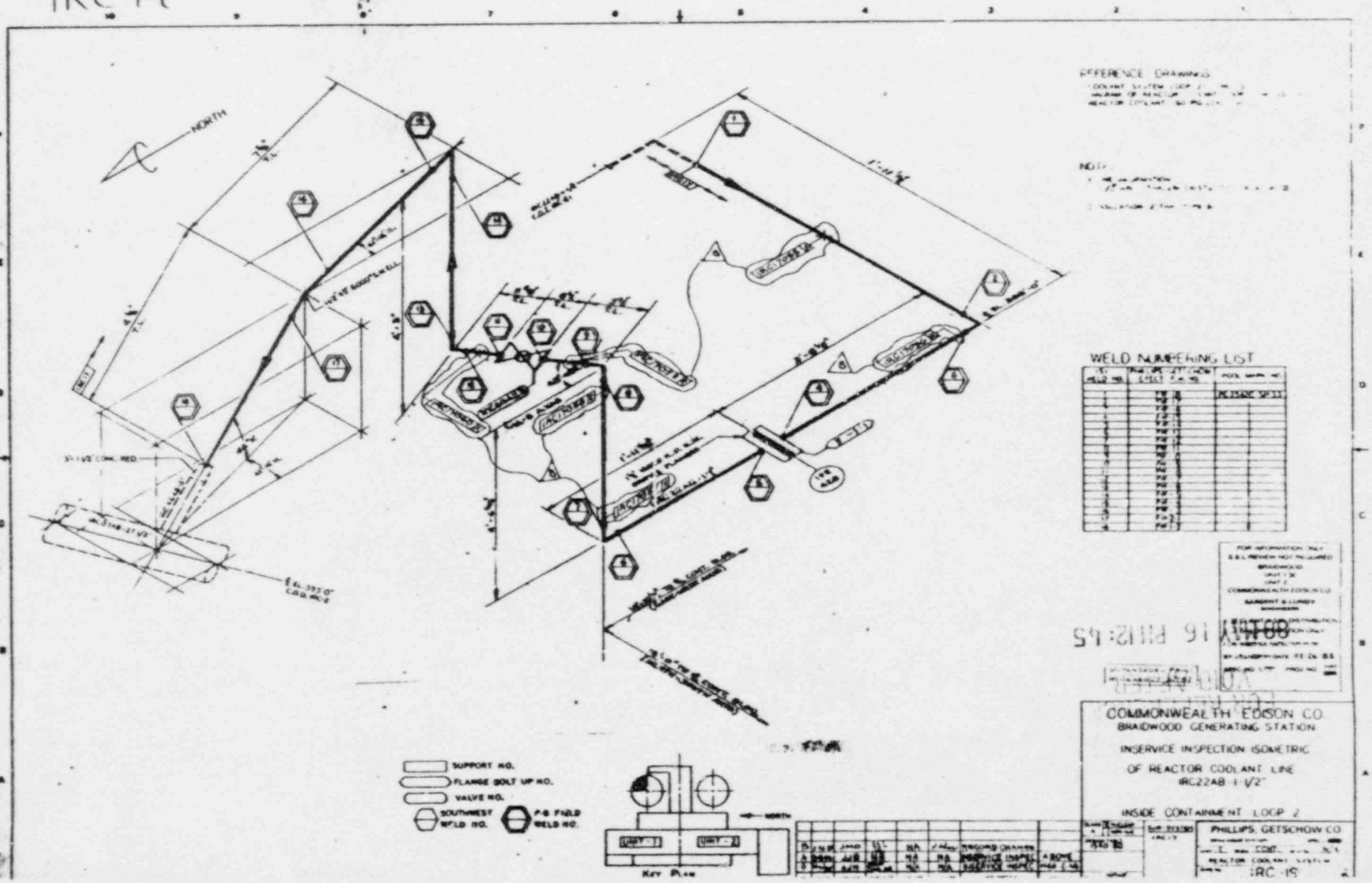
FOR INFORMATION ONLY
B.B.L. REVIEW NOT REQUIRED
BRAIDWOOD
UNIT 1
UNIT 2
COMMONWEALTH EDISON CO.
SARGENT & LUNDY ENGINEERS
A ☒ CLIENT & SBL DISTRIBUTION
B ☐ SBL DISTRIBUTION ONLY
FOR VENDOR INFORMATION ONLY
BY: J.S.HANNIBALSKE G.E.CL.IIA
SPEC NO. 1.327 ... PROJ NO. ...

88 MAY 16 ...

COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
1RC09FD-3" 2RC09FD-3"
INSIDE CONTAINMENT LOOP 4

PHILLIPS GETSCHOW CO.

IRC-19



REFERENCE DRAWINGS

NOTE:

WELD NUMBERING LIST

WELD NO.	PIPE SPEC. & WALL THICK.	FOR. MATL. NO.
		AC35AC SF33

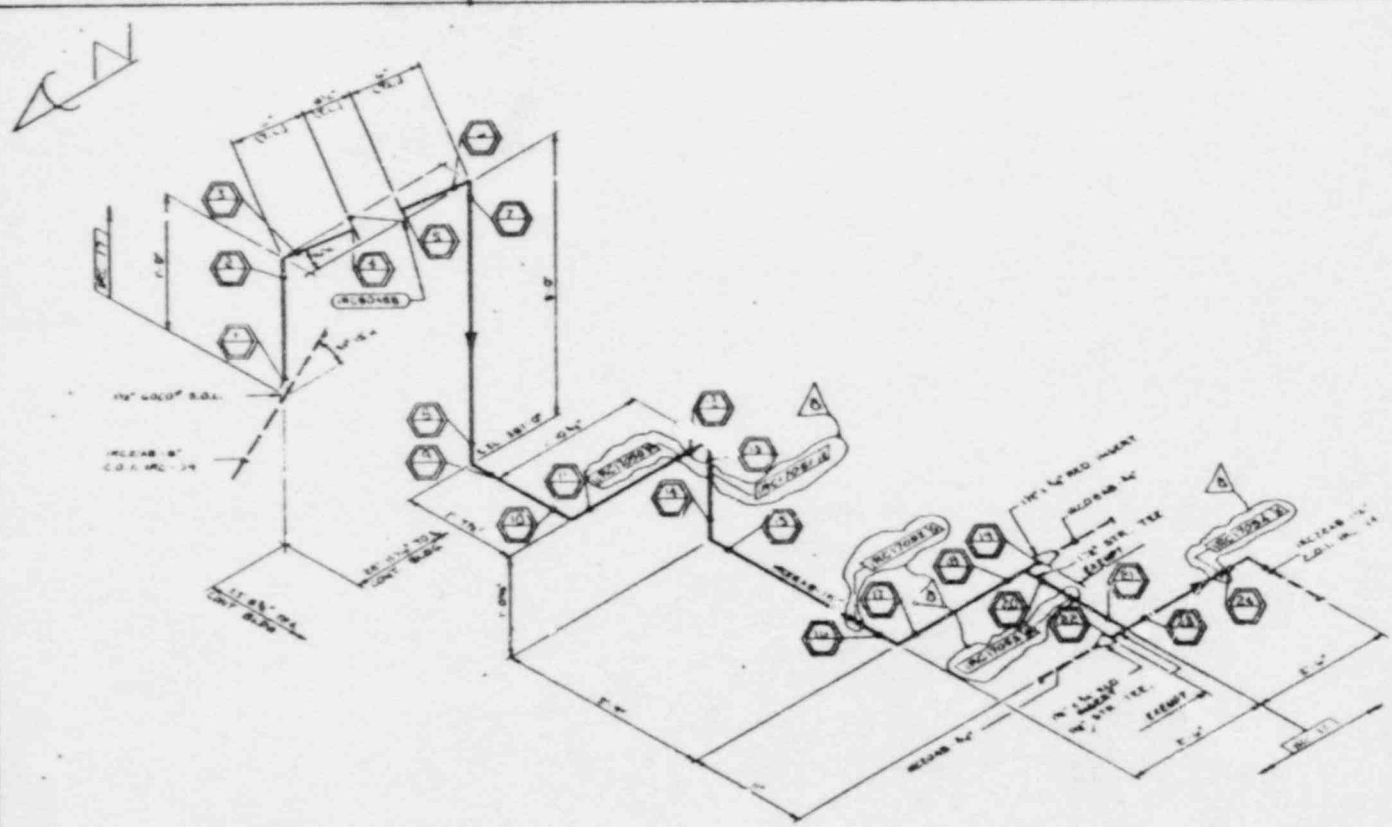
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINE
IRC22AB-1 1/2"
INSIDE CONTAINMENT LOOP 2

PHILLIPS, GETSCHOW CO.

IRC-19

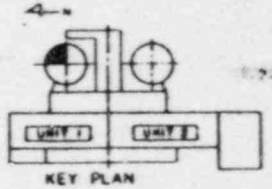
IRC-20

IRC-21



SYMBOL IDENTIFICATION

- SUPPORT NUMBER
- FLANGE BOLT-UP NO.
- VALVE NUMBER
- F.S. FIELD WELD NO.



KEY PLAN

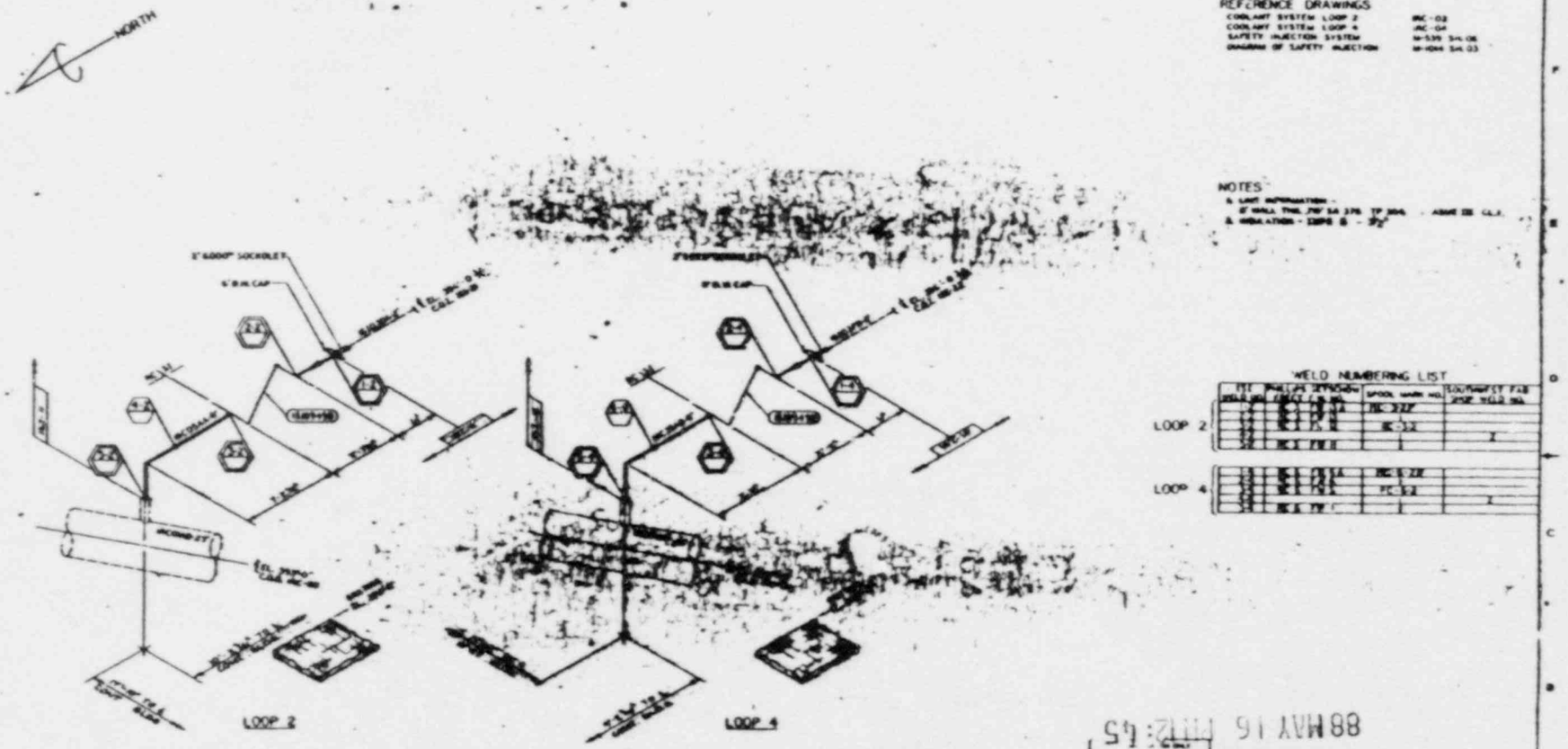
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINE
IRC22AB-1½ INSIDE CONTAINMENT
LOOP-2

PHILLIPS, GETSCHOW CO.

REACTOR COOLANT

IRC-22



REFERENCE DRAWINGS

COOLANT SYSTEM LOOP 2	RC-02
COOLANT SYSTEM LOOP 4	RC-04
SAFETY INJECTION SYSTEM	M-539 SH 05
DIAGRAM OF SAFETY INJECTION	M-1044 SH 03

NOTES

WELD NUMBERING LIST

LOOP 2			
LOOP 4			

VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DRAWING NO.

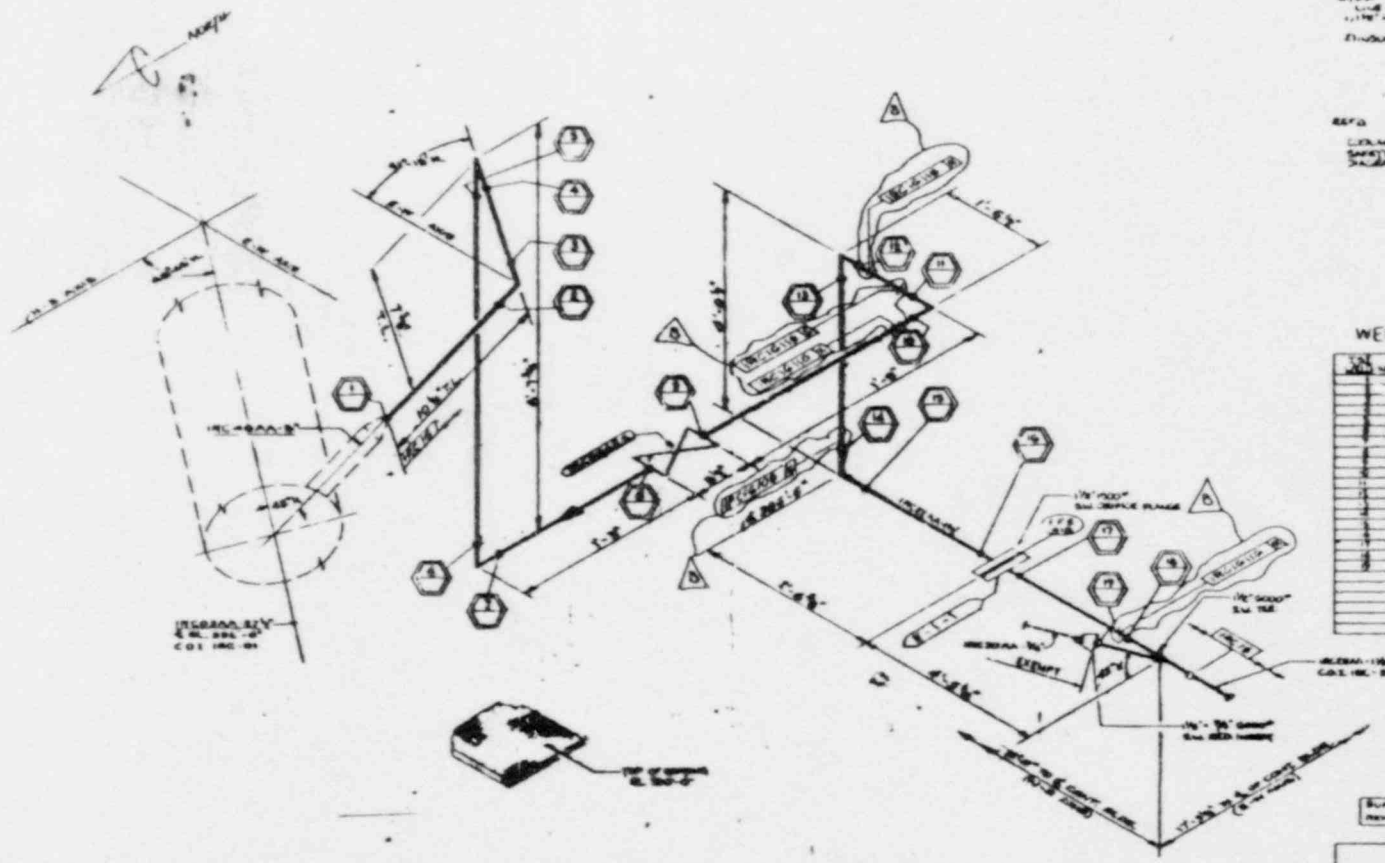
88 MAY 16 PM 12:45

COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
RC05AA-6"(LOOP 2) RC35AB-6"(LOOP 4)
IN SIDE CONTAINMENT

PHILLIPS GETSCHOW CO.

REACTOR COOLANT SYSTEM
RC-22

IRC-23



WELD NUMBERING LIST

SUPERSEDES PRINT

COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINE
2AA-1½"
INSIDE CONTAINMENT LOOP-1

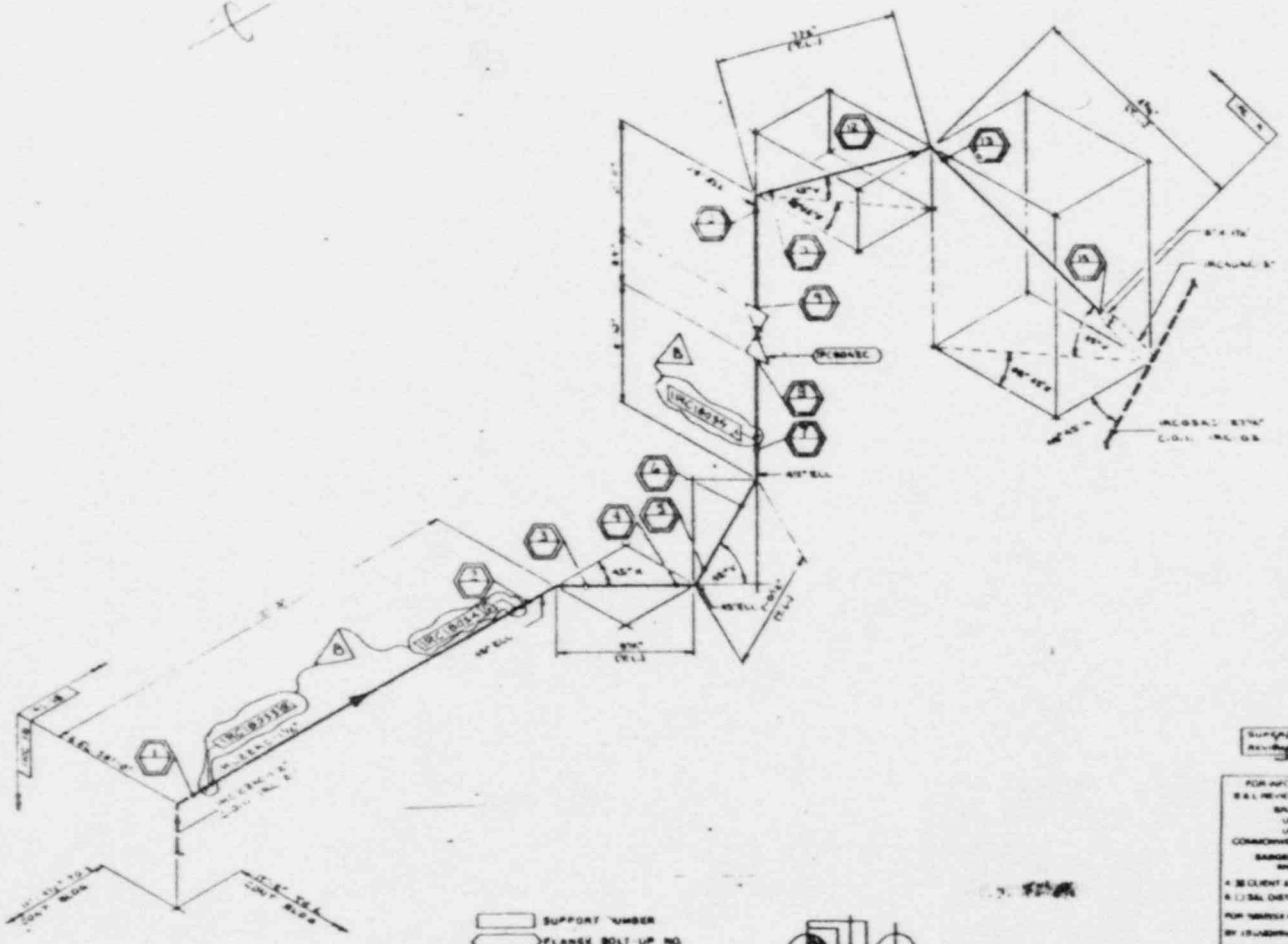
PHILLIPS GETSCHOW CO.

IRC-23

SUPPORT NUMBER
FLANGE BOLT UP NO.
VALVE NUMBER
SOUTHWEST WELD NO.
R.S. FIELD WELD NO.

KEY PLAN

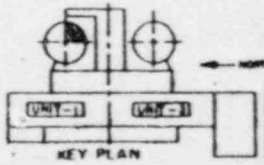
IRC-24



REFERENCE DRAWINGS

NOTES

SUPPORT NUMBER
FLANGE BOLT UP NO.
VALVE NUMBER
SOUTHWEST WELD NO.
PG FIELD WELD NO.



KEY PLAN

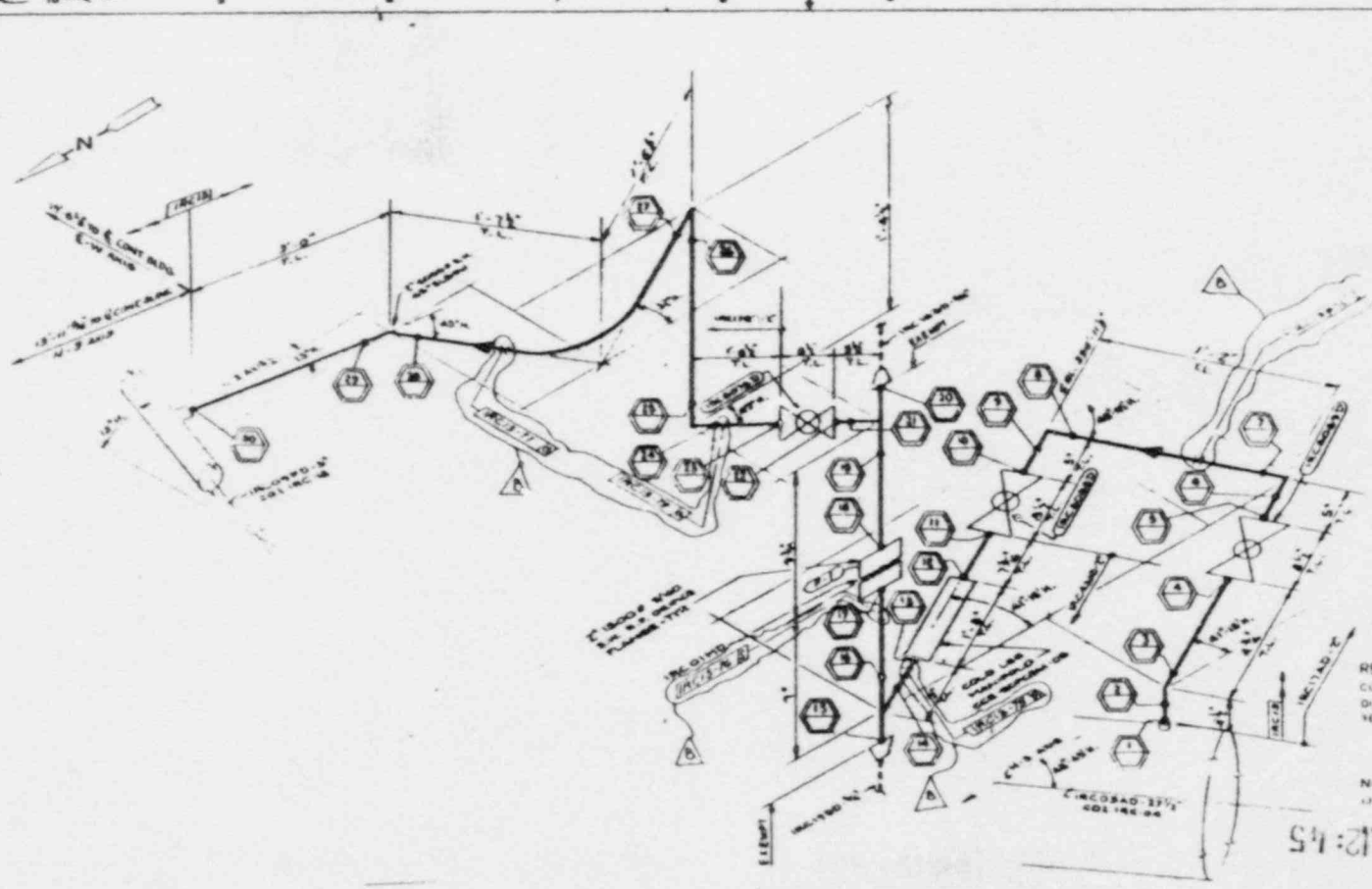
88MAY 16

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION SCHEDULE
OF REACTOR COOLANT LINES
IRC22AC-1½"
INSIDE CONTAINMENT (LOOP-3)

PHILLIPS GETSCHOW CO

IRC-24

IRC-25



WELD NUMBERING LIST

REFERENCE DRAWINGS

NOTES:

88 MAY 16 PM 12:45

SUPPORT NUMBER
FLANGE BOLT UP NO.
VALVE NUMBER
P.G. FIELD WELD NO.

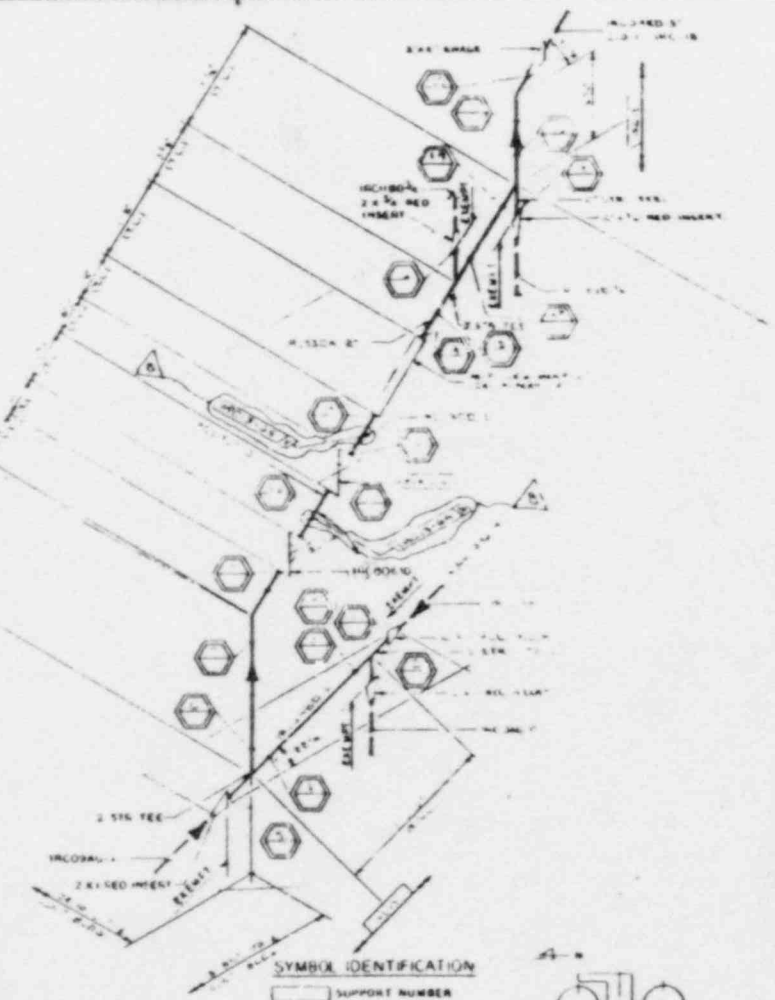
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
IRC17AD-2", IRC43AD-2", IRC17BD-2"
INSIDE CONTAINMENT LOOP - 4

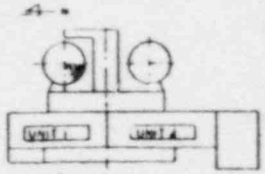
SUB-SYSTEM IRC13

PHILLIPS GETSCHOW CO.

REACTOR COOLANT

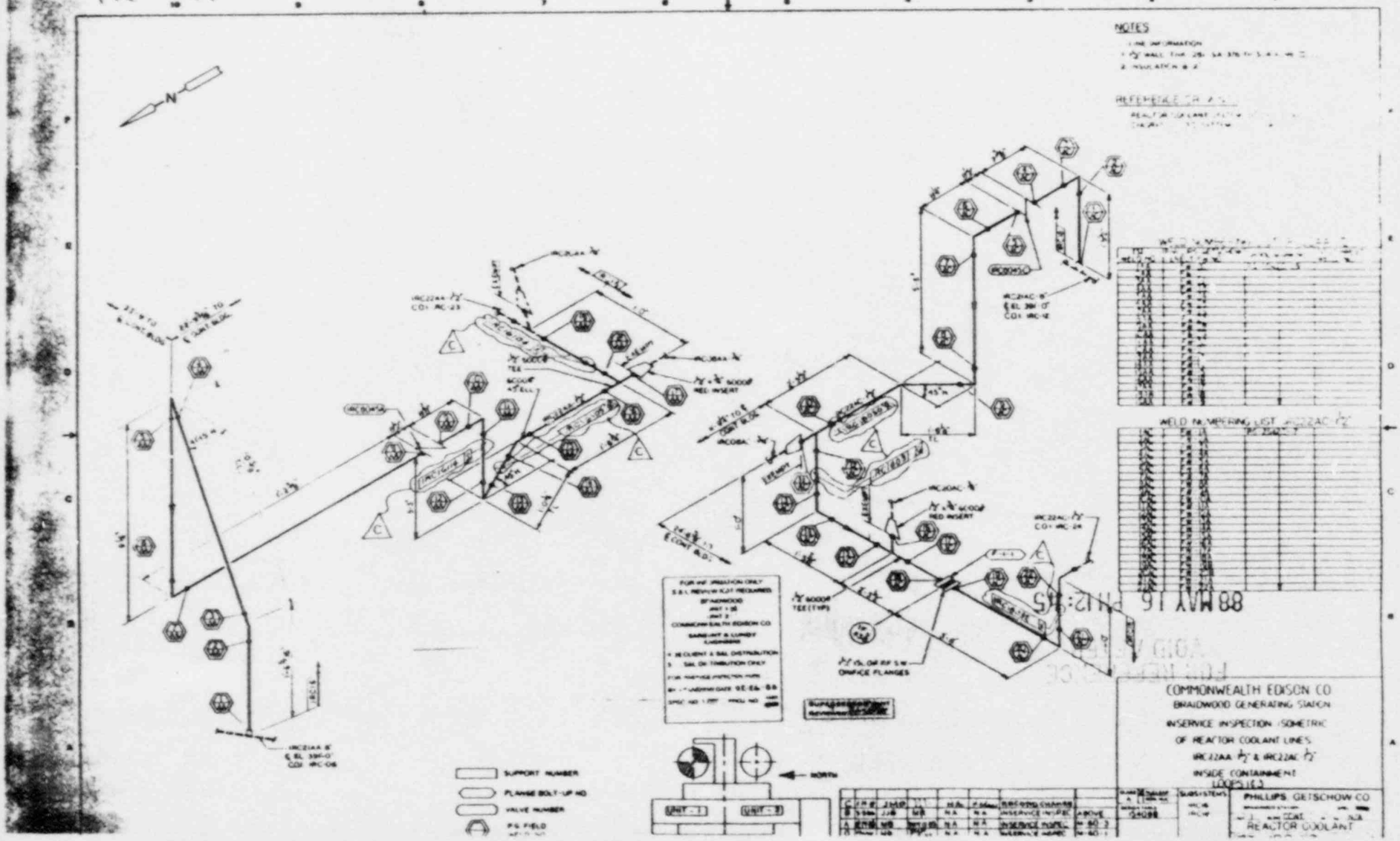
IRC-26



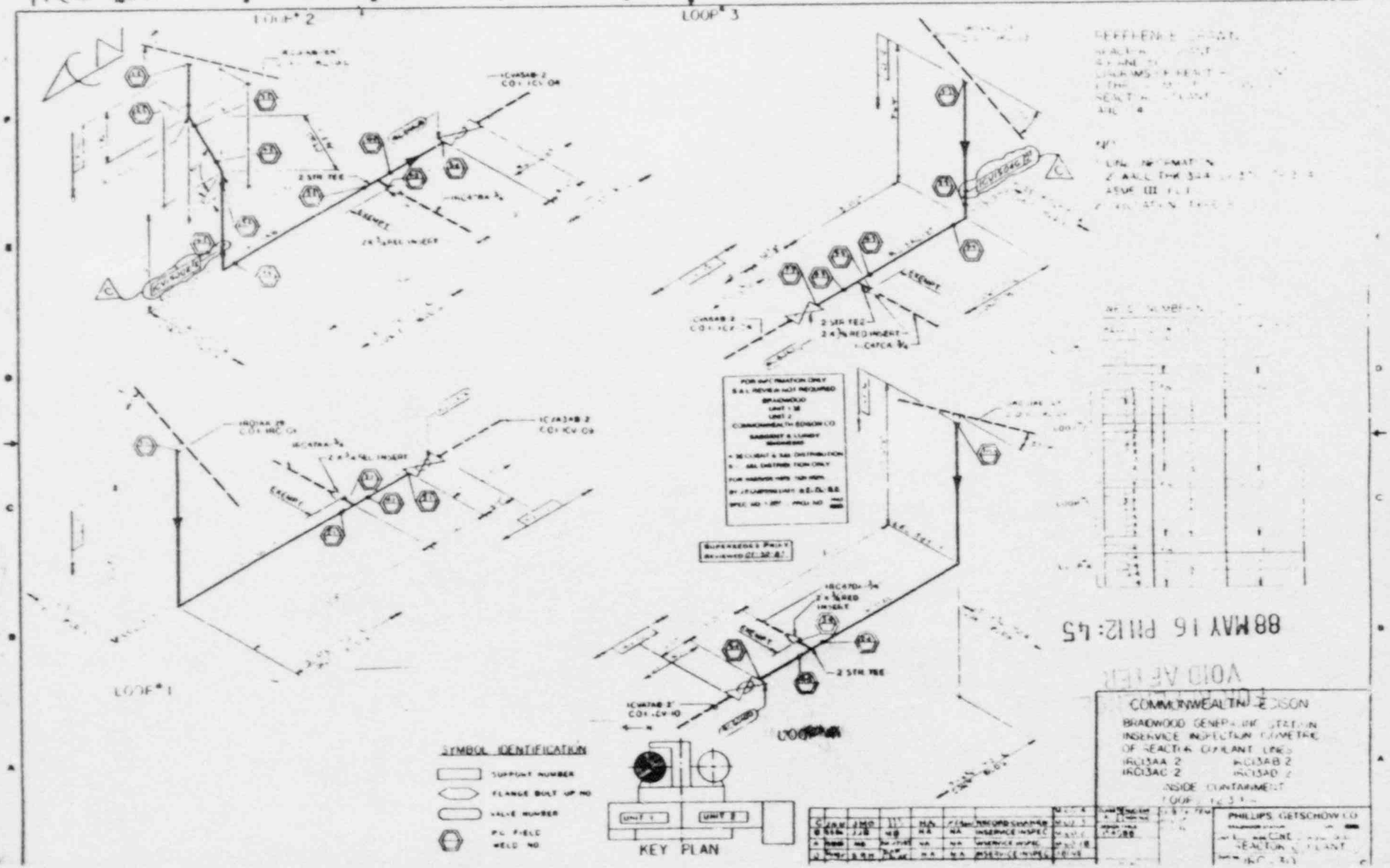


88 MAY 16 P1:45

IRC-27

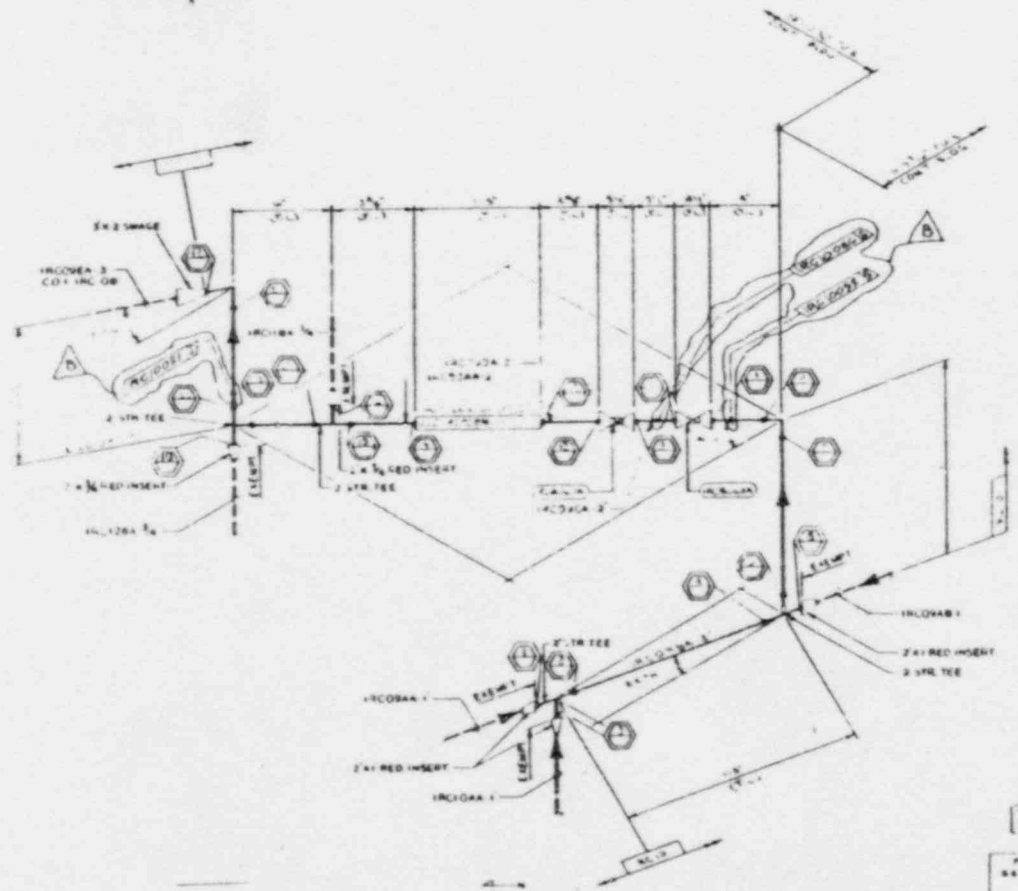

NOTES
WELD NUMBERING LIST
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
INSIDE CONTAINMENT
PHILLIPS GETSCHOW CO
REACTOR COOLANT
88 MAY 16 PM 12:45

IRC-30



88 MAY 16 PM 12:45

IRC-28



SYMBOL IDENTIFICATION
SUPPORT NUMBER
FLANGE BOLT UP NO.
VALVE NUMBER
F.S. FIELD
WELD NO.

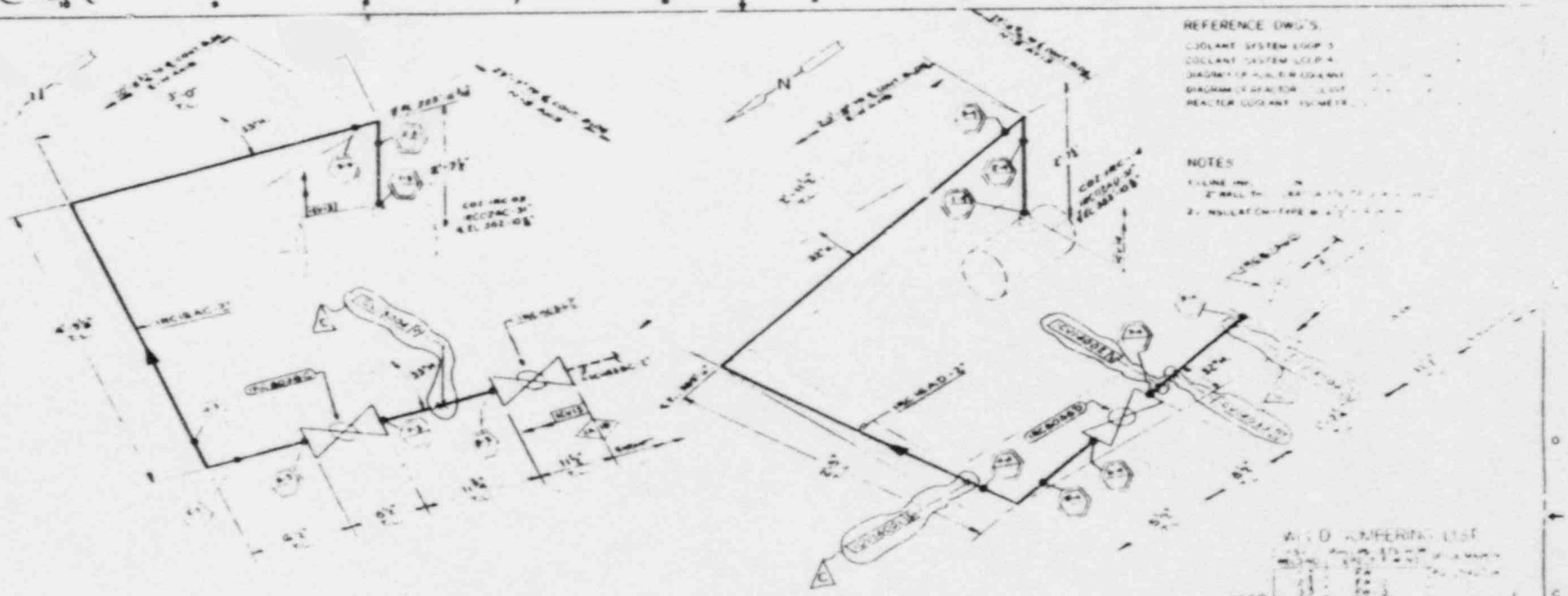
KEY PLAN
UNIT 1
UNIT 2

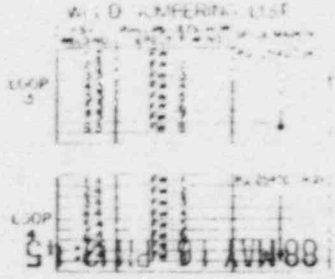
88 MAY 16 P12:45

COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT PIPING
INCOHA 1 INCOHA 2
INSIDE CONTAINMENT

PHILLIPS GETSCHOW CO.

RC-29





VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUFACTURER	MANUFACTURER DWG. NO.
1RC-8956C	3" 900# WEDGE GATE	6	1 1/8	STUD	CRANE-VULCAN	144085
1RC8956D	3" 900# WEDGE GATE	6	1 1/8	STUD	CRANE-VULCAN	144085

SUPPORT NUMBER
FLANGE BOLT UP NO
VALVE NO
P.G. FIELD WELD NO.

NORTH

UNIT 1 UNIT 2

1	JAN. 88	N/A	N/A	INSERVICE INSPEC
0	JAN. 88	N/A	N/A	INSERVICE INSPEC

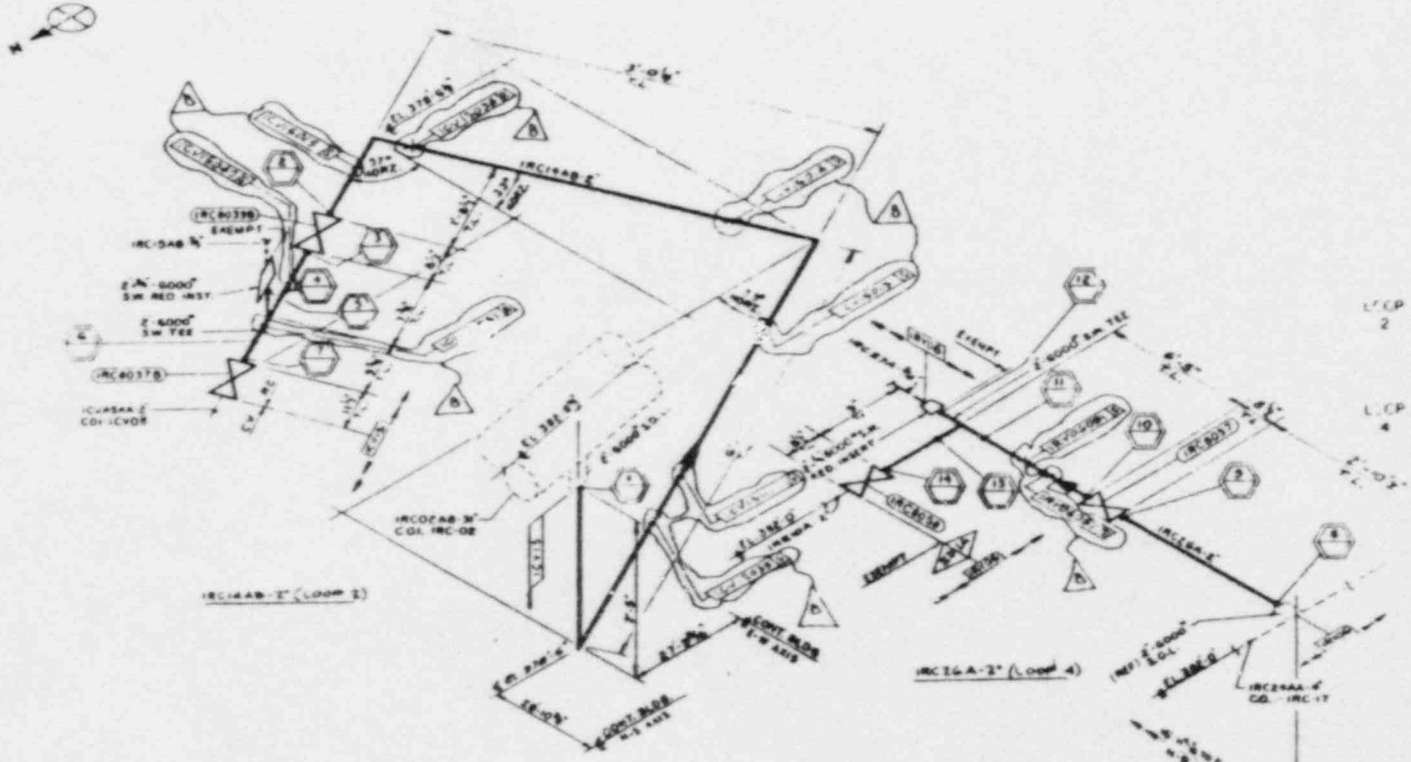
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
1RC16AC-2"(LOOP 3) & 1RC16AD-2"(LOOP 4)
INSIDE CONTAINMENT

PHILLIPS GETSCHOW CO

REACTOR UNIT 1

1RC-29

IRC-31



VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUFACTURER	MANUFACTURER DWG. NO.
IRC8037D						

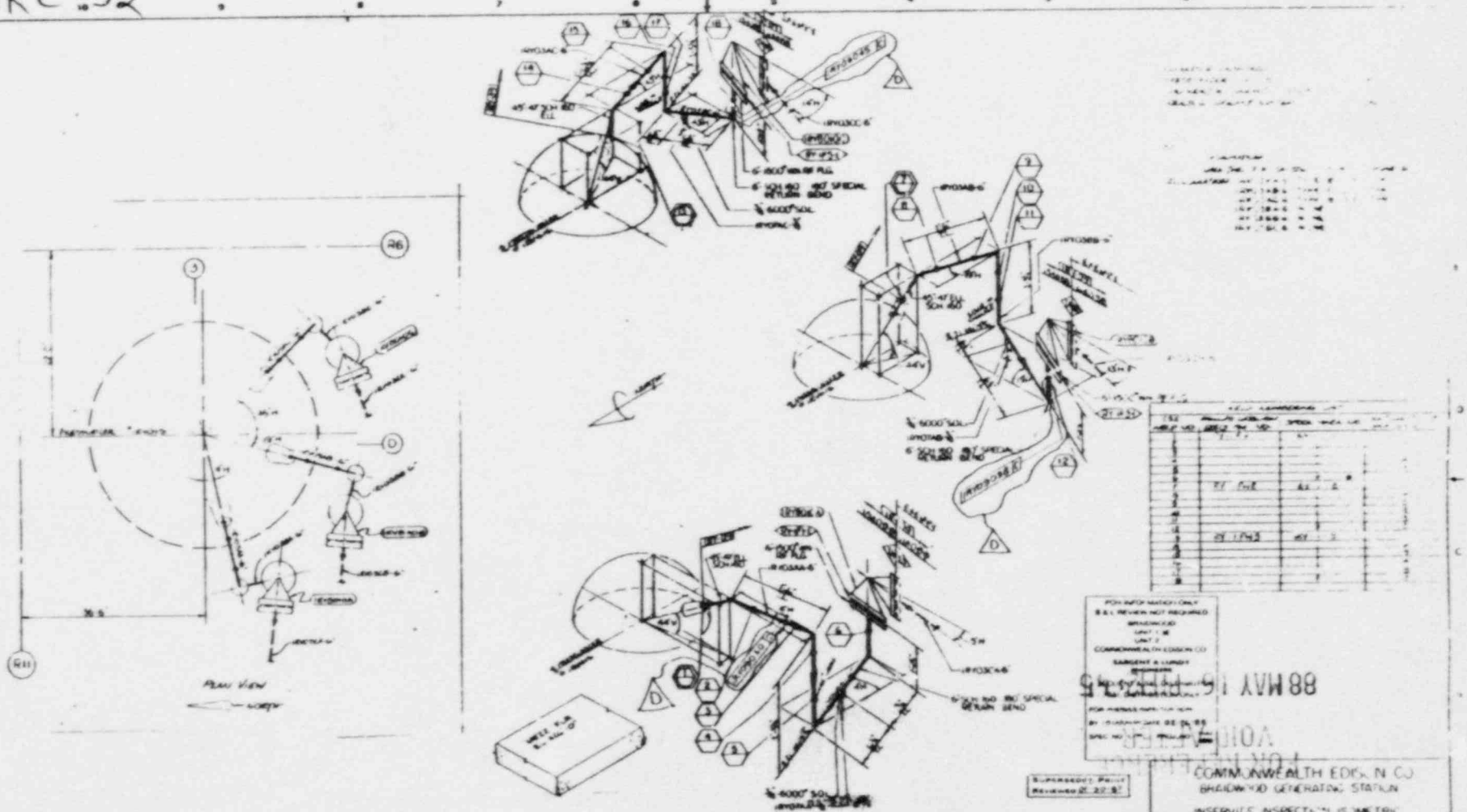
SUPPORT NUMBER
FLAMBE BOLT-UP I.D.
VALVE NUMBER
P.G. FIELD WELD NO.

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION GOMETRIC
OF REACTOR COOLANT LINES
IRC14AB-2 (LOOP 2), IRC26B-2 (LOOP 4
INSIDE CONTAINMENT

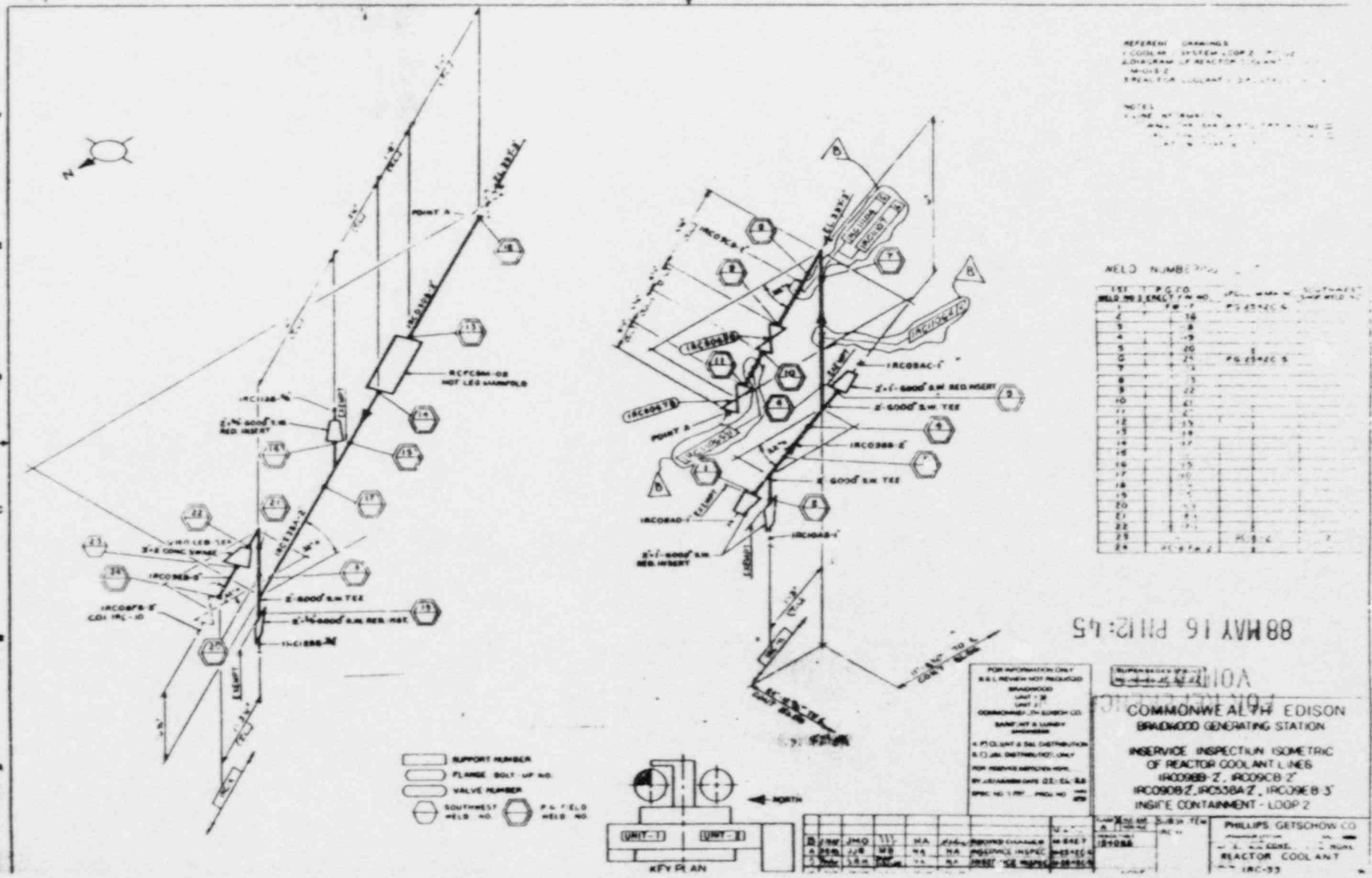
PHILLIPS GETSCHOW

REACTOR COOLANT

IRC-32


PLAN VIEW
NORTH
SUPPORT NUMBER
FLANGE BOLT UP NO
VALVE NUMBER
FIELD WELD NO.
VALVE FORGET BOLTING
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
INSIDE CONTAINMENT
PHILLIPS GETSCHOW CO

IRC-.33



REFERENCE DRAWINGS

NOTES

WELD NUMBERING

ISI WELD NO.	PG CO ENG'G WELD NO.	SHOP WELD NO.	SOUTHWEST WELD NO.
1	FW-1		PG 6542C-5
2		16	
3		8	
4		19	
5		20	
6		21	PG 6542C-5
7		14	
8		3	
9		22	
10		6	
11		4	
12		23	
13		24	
14		17	
15		18	
16		13	
17		10	
18		11	
19		9	
20		7	
21		5	
22		1	
23		2	
24	PG 6542C-4		PG 6542C-5

88 MAY 16 PM 12:45

FOR INFORMATION ONLY
B & L REVIEW NOT REQUIRED
BRAIDWOOD
UNIT 1
UNIT 2
COMMONWEALTH EDISON CO.
SARGENT & LUNDY
ENGINEERS
NUCLEAR POWER DIVISION
PIPING & SAL DISTRIBUTION
SAL DISTRIBUTION ONLY
FOR INSERVICE INSPECTION ONLY
BY ASME/ANSI CODE 22 ED. 88
SPEC NO. 1-PIP-PROJ NO. 6542

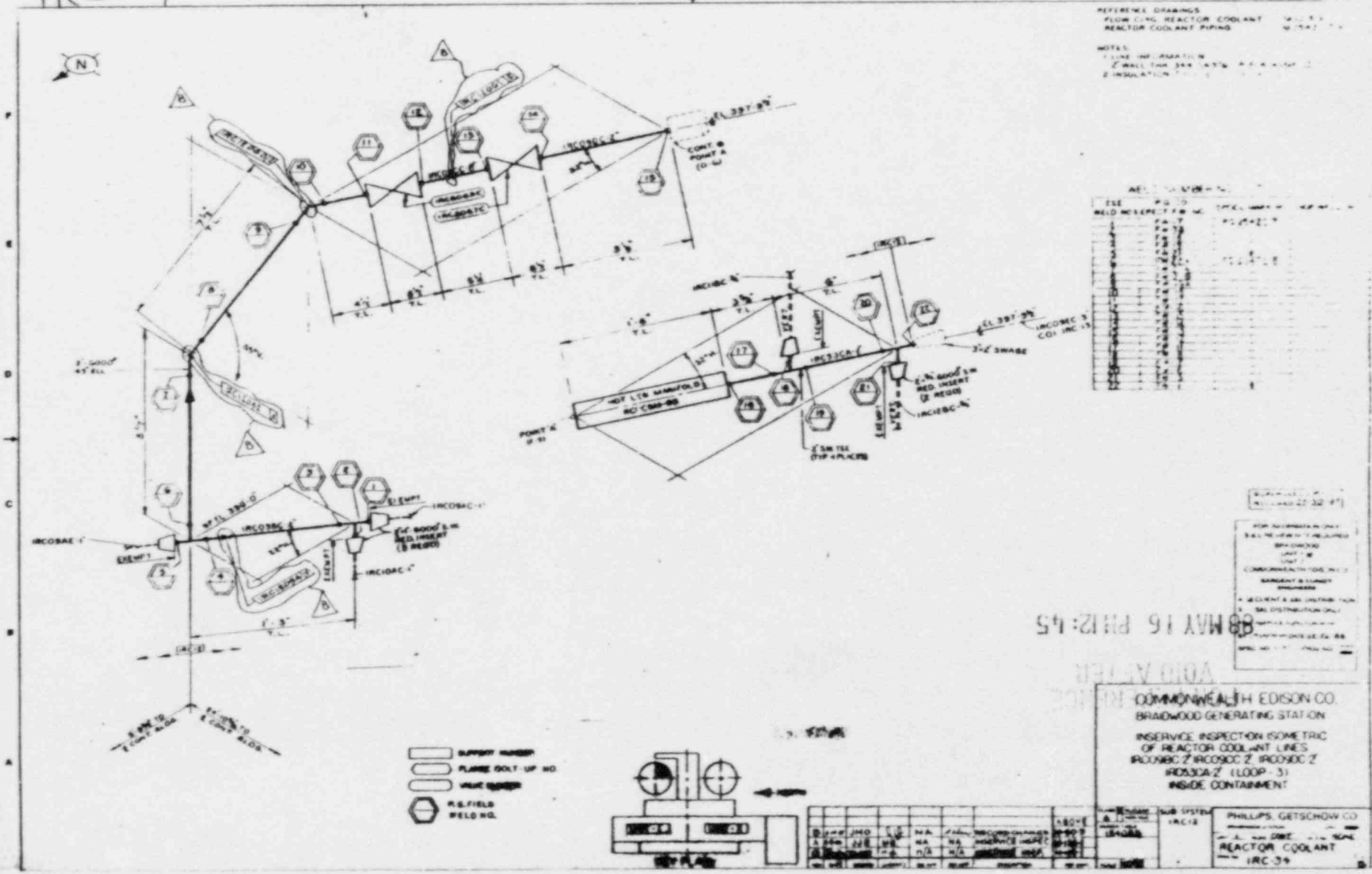
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
IRC09BB-2", IRC09CB-2"
IRC09DB-2", IRC538A-2", IRC09EB-3"
INSIDE CONTAINMENT - LOOP 2

REV	BY	CHKD	APPD	DESCRIPTION
A	JMD	WB	HA	ISSUED FOR INSERVICE INSPEC
B	JMD	WB	HA	ISSUED FOR INSERVICE INSPEC

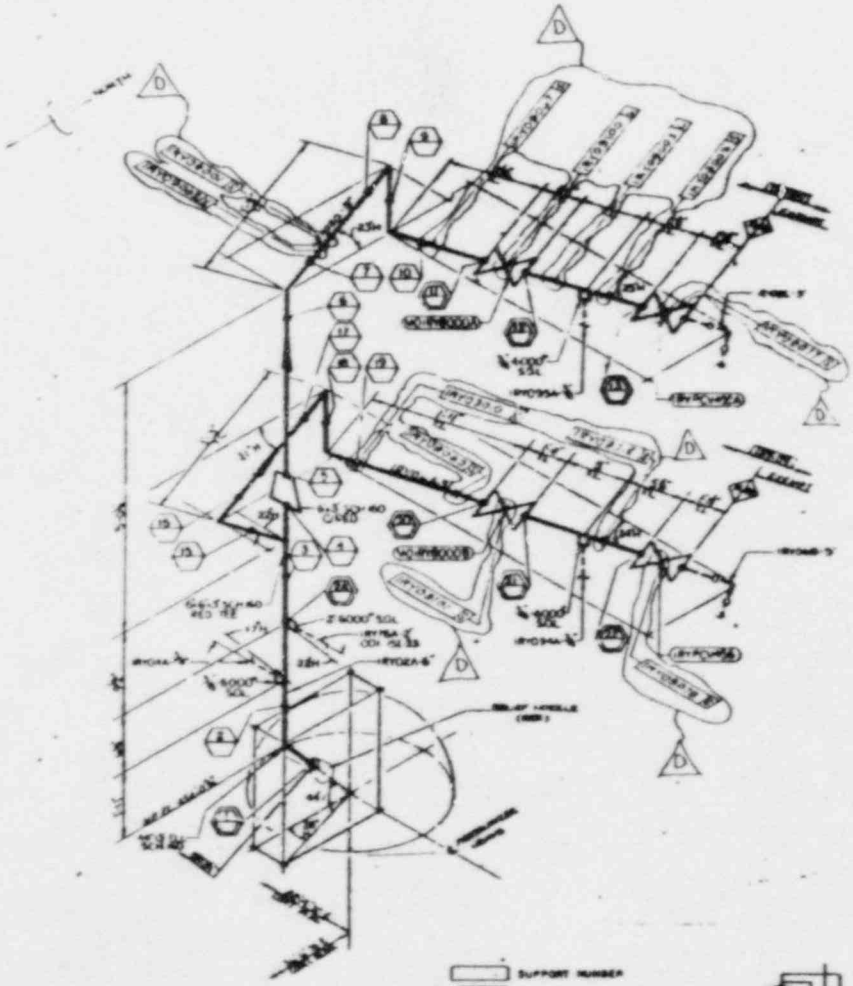
PHILLIPS GETSCHOW CO.
REACTOR COOLANT
IRC-33

IRC-34



88 MAY 16 PM 12:45

IRC-35



VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	BOLT BOLTS	BOLT DIA.	BOLT TYPE	VALVE MFG'R	MANUF. DRWG. NO.

SUPPORT NUMBER
FLANGE BOLT UP NO.
VALVE NUMBER
FIELD WELD NO.

NORTH

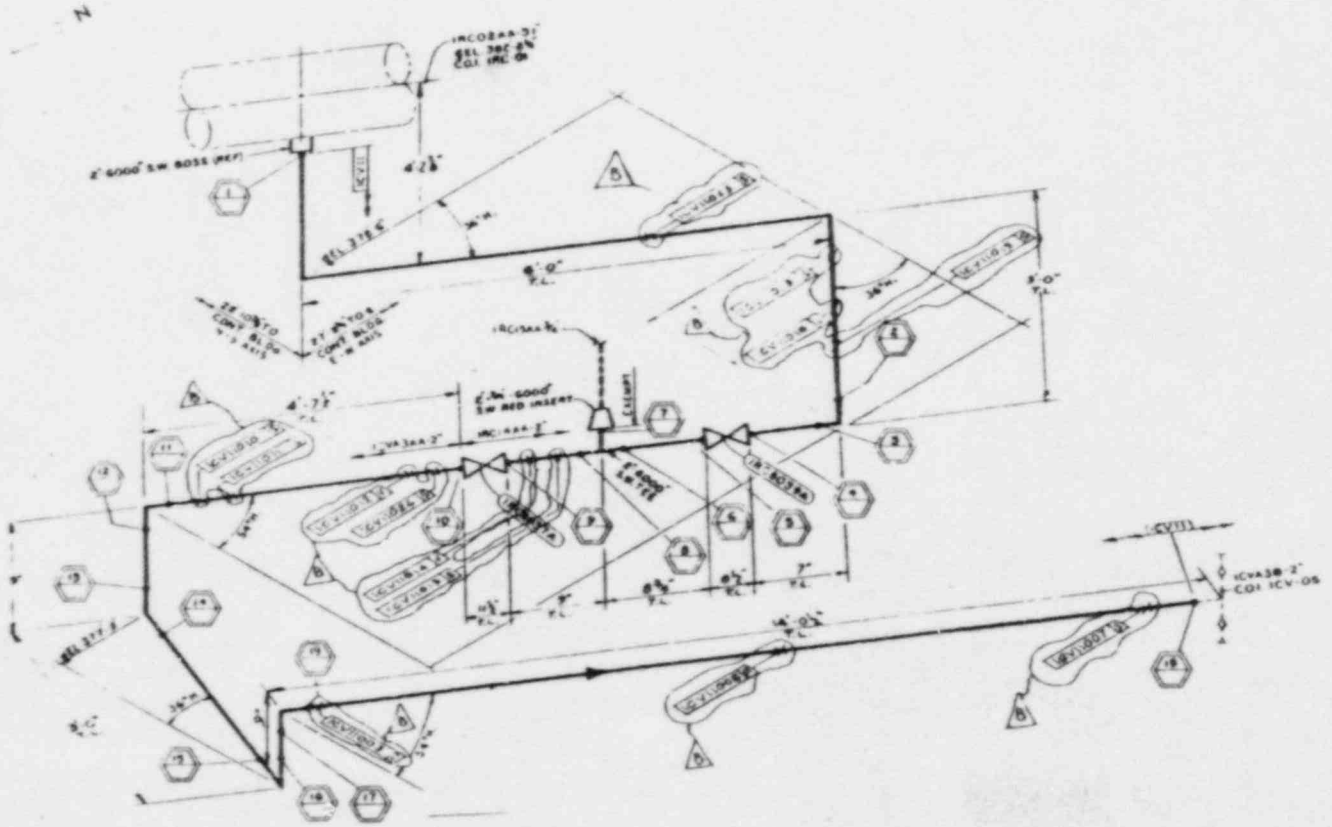
UNIT-1 UNIT-2

COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
1RY02A-6" 1RY06A-3"
1RY02B-3"
INSIDE CONTAINMENT, LOOP-4

PHILLIPS GETSCHOW CO.

88 MAY 16 PM 12:45

IRC-36



VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUFACTURER	MANUFACTURER DWG. NO.
1RCM031A	3 STEM GUIDE	6	1"	STUD	COPES VULCAN	D-166088

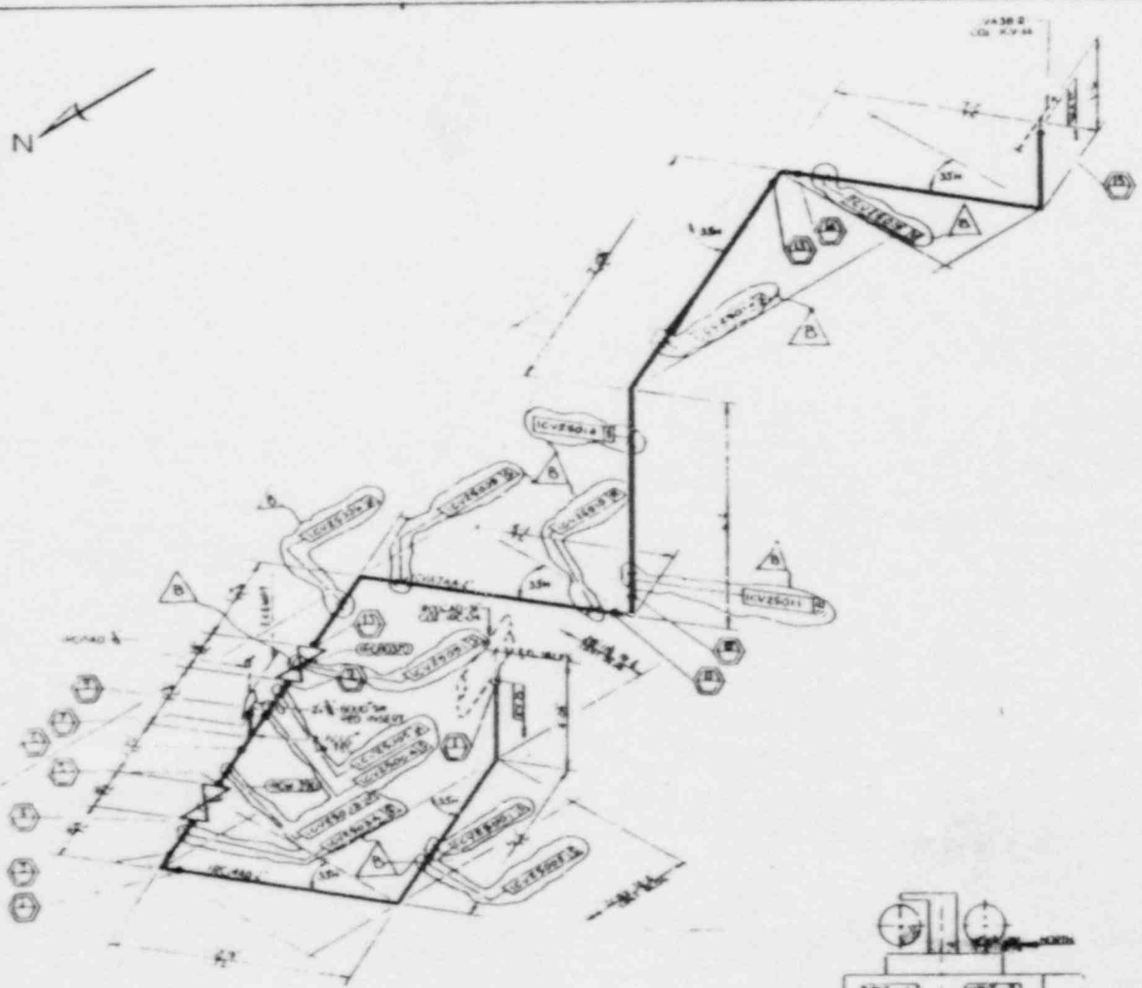
SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
RE/FIELD WELD NO.

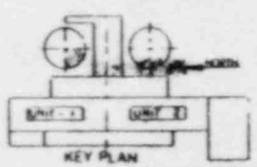
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
1RCM AA 2, 1CVA 3AA 2
INSIDE CONTAINMENT - LOOP 1

PHILLIPS, GETSCHOW CO

REACTOR COOLANT
IRC-36

IRC-37

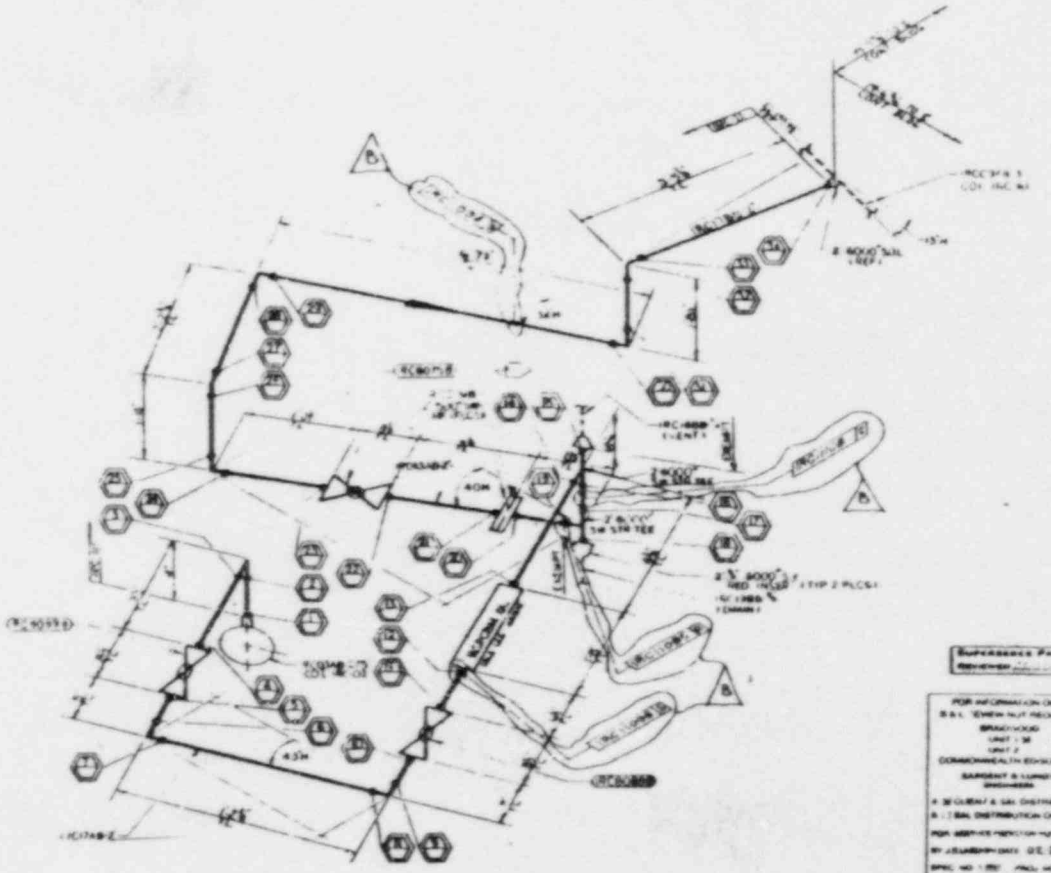




VALVE BONNET BOLTING						
VALVE NO	VALVE TYPE	NO OF BOLTS	BOLT DIA	BOLT TYPE	VALVE MANUFACT	MANUFACT DWG NO
UP-IRC37C	RELIEF	8	1"	A193 GR B7	CROSBY-PRESSURE	D 81-1093

SUPPORT NUMBER
FLANGE BOLT UP NO
VALVE NUMBER

IRC-38



SUPPORT NO.
FLANGE BOLT UP NO.
VALVE NO.

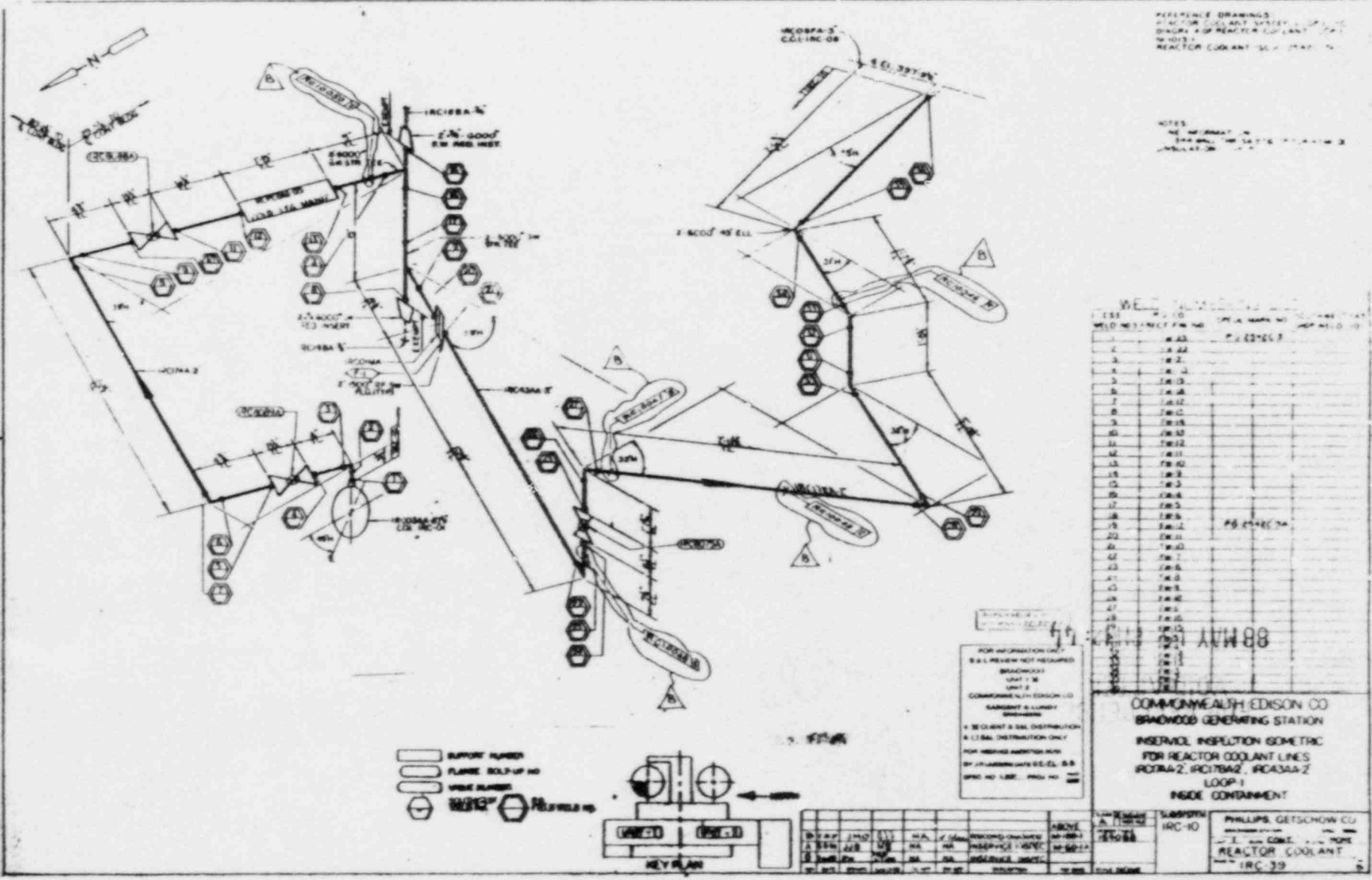
KEY PLAN

WELD NUMBERING LIST

COMMONWEALTH EDISON
BYRON GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
IRC17AB2 IRC17BB2 IRC43AB2
INSIDE CONTAINMENT
LOOP 2

PHILLIPS, GETSCHOW CO.

IRC-39



COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
FOR REACTOR COOLANT LINES
IRC01A-2, IRC17BA2, IRC43A-2
LOOP 1
INSIDE CONTAINMENT

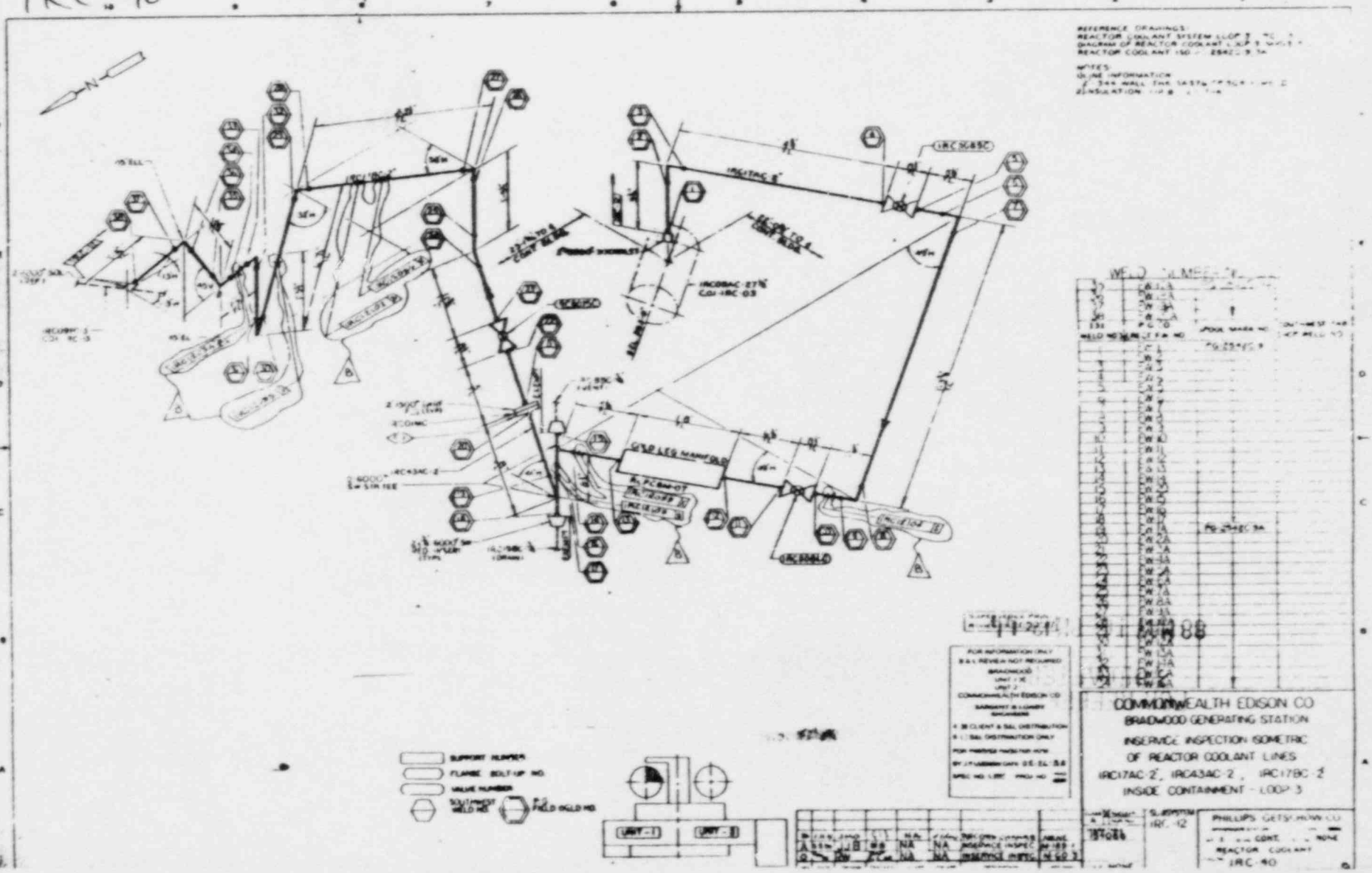
SUBSYSTEM IRC-10

PHILLIPS, GETSCHOW CO

REACTOR COOLANT

IRC-39

IRC-40

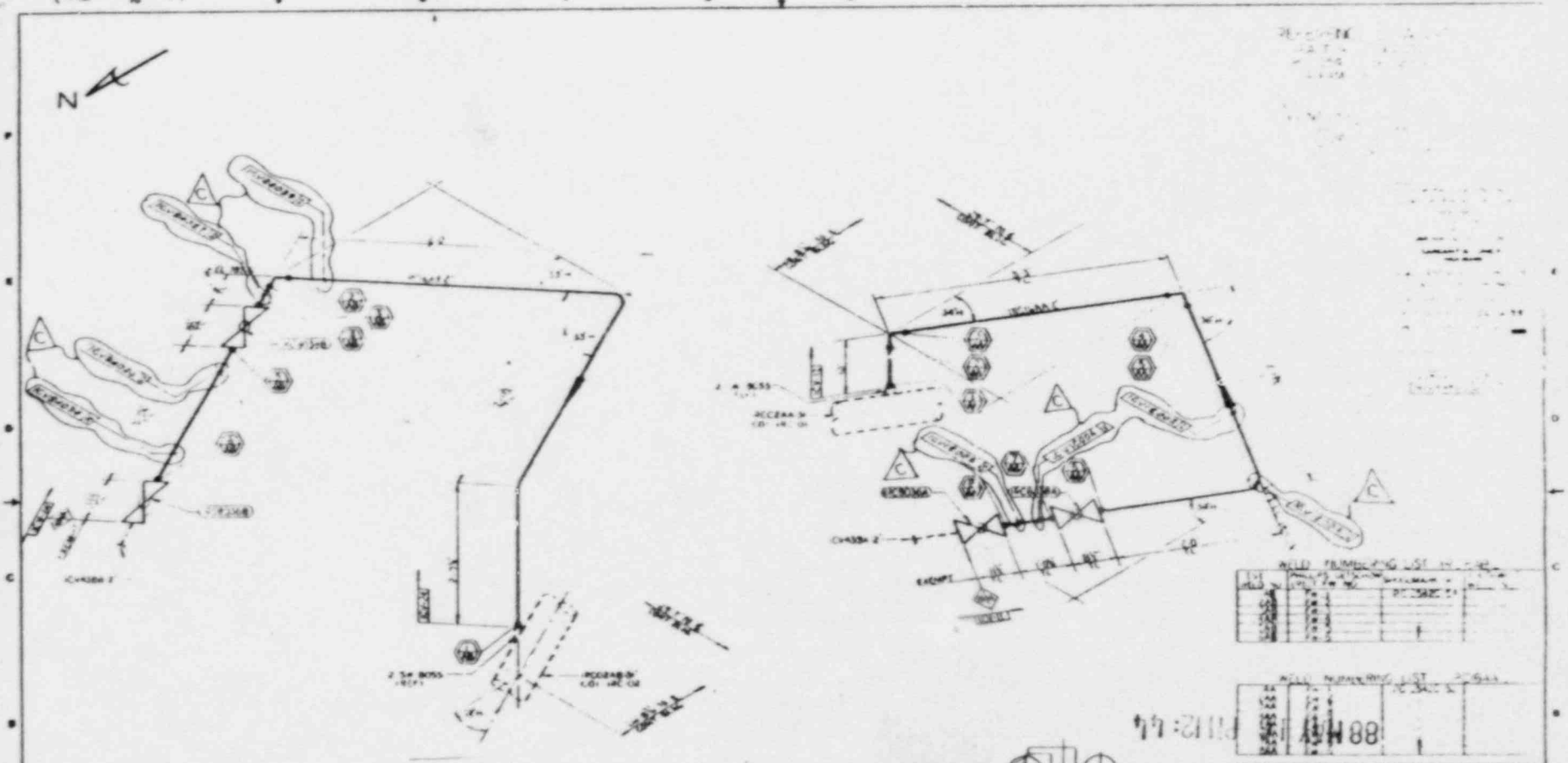


COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINES
IRC17AC-2, IRC43AC-2, IRC17BC-2
INSIDE CONTAINMENT - LOOP 3

PHILLIPS GETSCHOW CO

IRC-40

1RC:41



VALVE BONNET BOLTING

VALVE TAG	VALVE TYPE	NO OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUFACTURER	MANUFACTURER DWG. NO.
1RC8036A	GLOBE	6	1"	SA193 GR B7	COPES/VOGAN	D-166085
1RC8036B	GLOBE	6	1"	"	"	"

COMMONWEALTH EDISON

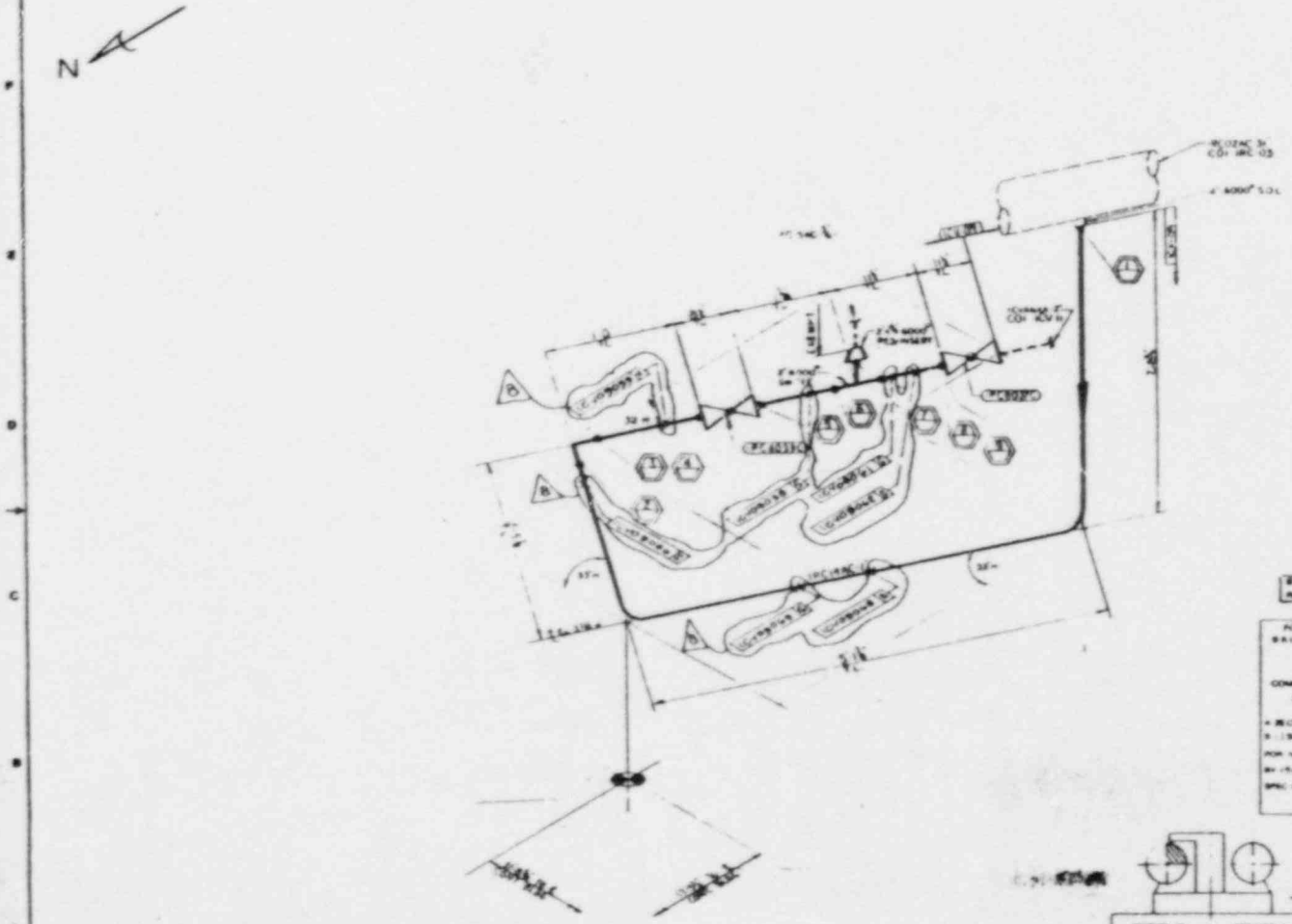
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC OF REACTOR COOLANT LINES
1RC8AA 2" (LOOP 1)
1RC8AB 2" (LOOP 2)

INSIDE CONTAINMENT

PHILLIPS GETSCHOW CO

IRC-42



VALVE BONNET BOLTING

VALVE NO	VALVE SIZE	NO OF BOLTS	BOLT DIA	BOLT TYPE	VALVE MANUFACTURER	MANUFACTURERS SPEC NO
P-1037	16x20x16	6	1	STUD & NUT	ANCHOR DARLING	Q-FLOOD

SUPPORT NO

FLANGE BOLT UP NO

VALVE NO

SOCKET WELD NO

BUTT WELD NO

KEY PLAN

NORTH

WELD NUMBERING SYSTEM

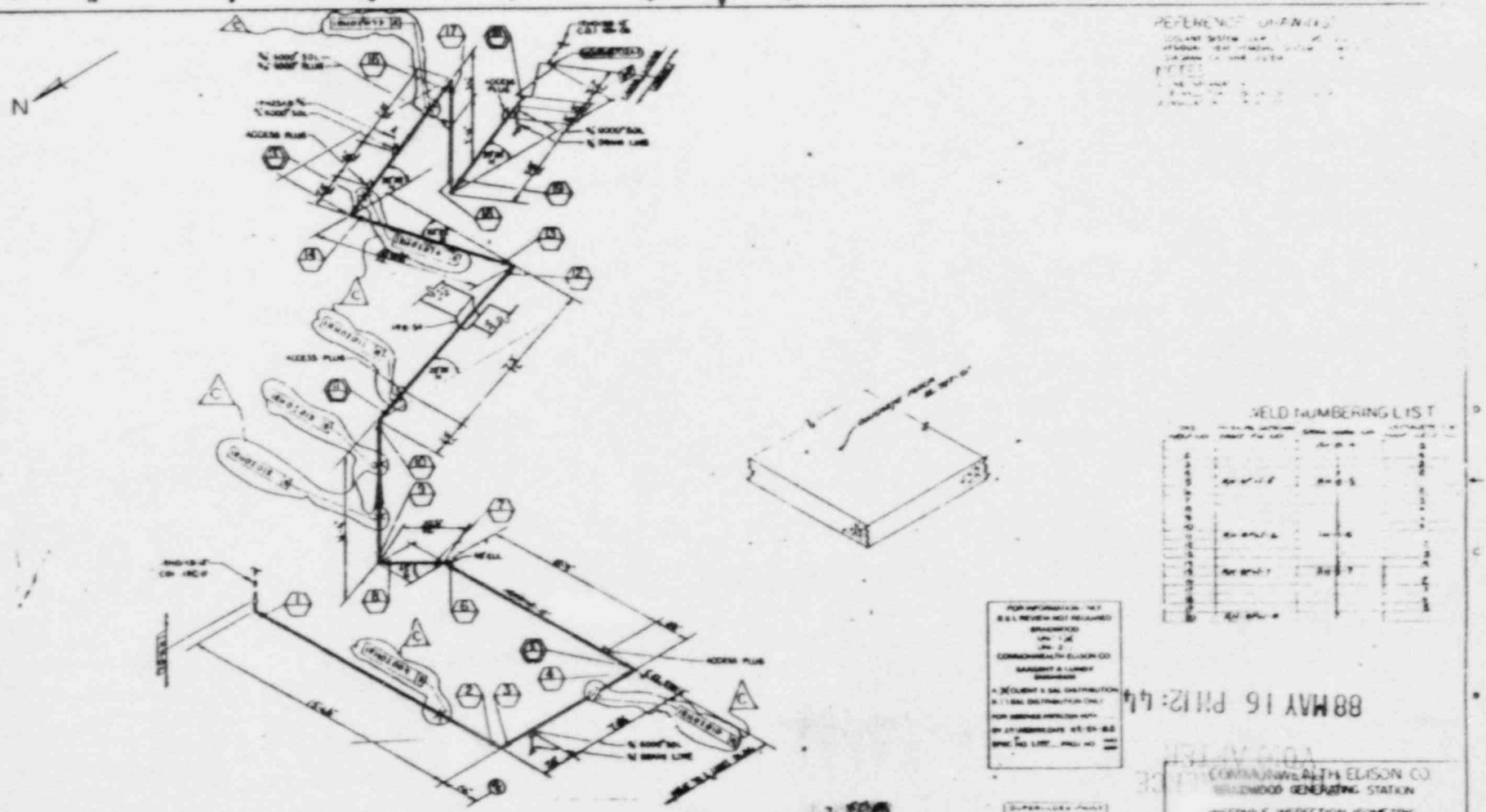
FOR INFORMATION ONLY
B & L REVIEW NOT REQUIRED
BRANCHED
UNIT 1 2
COMMONWEALTH EDISON CO
SARGENT & LUNDY ENGINEERS
X - RECIPIENT & SAL DISTRIBUTION
Y - SAL DISTRIBUTION ONLY

88 MAY 16 P1:12

COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF REACTOR COOLANT LINE
IRC14AC 2
INSIDE CONTAINMENT - LOOP 3

PHILLIPS GETSCHOW CO

IRH-01



VALVE BONNET BOLTING

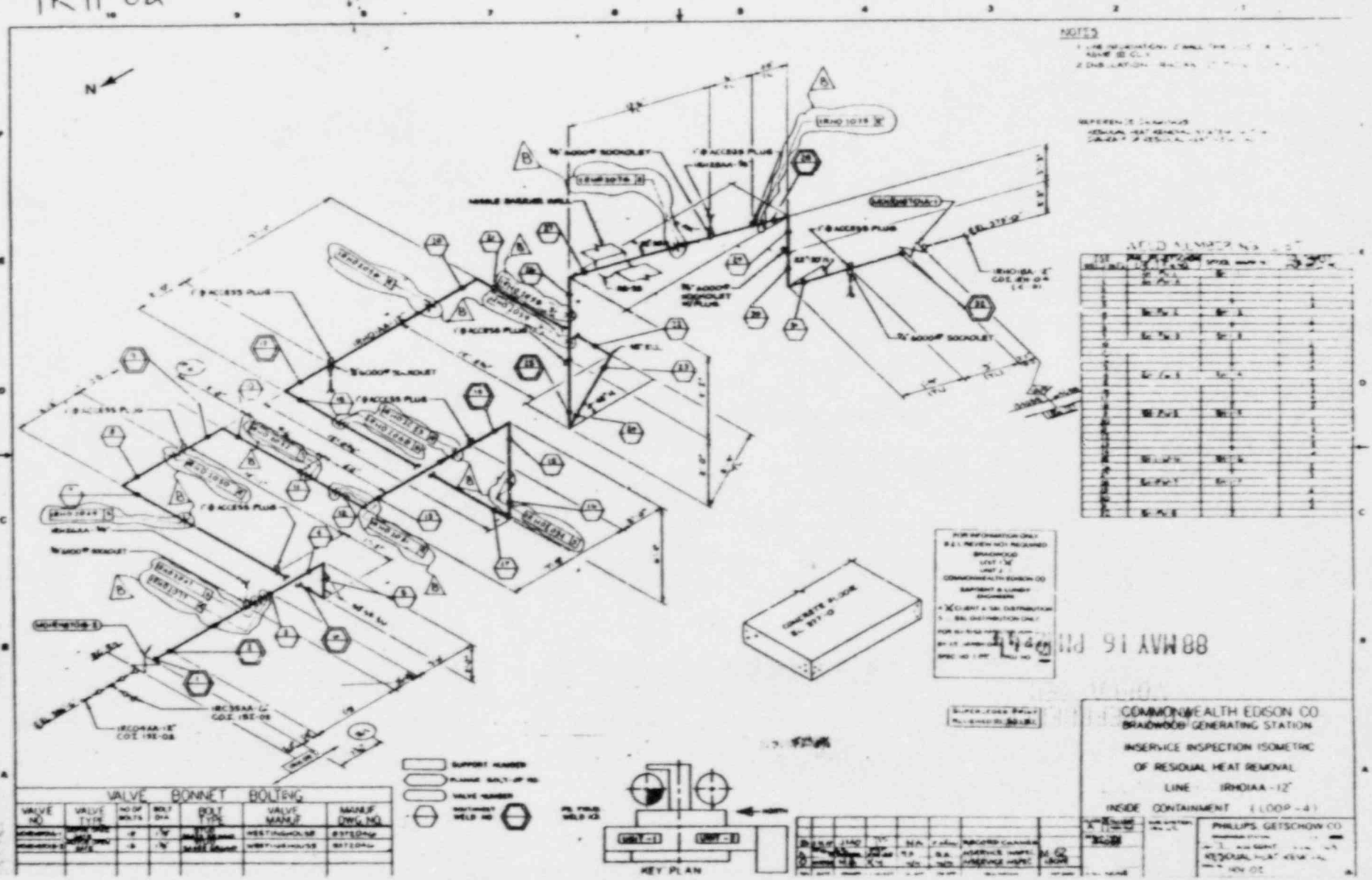
VALVE NO.	VALVE TYPE	HEAVY NUTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DRWG. NO.

88 MAY 16 P1:12:44

COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF RESIDUAL HEAT REMOVAL
LINE 1RH01AB-12
INSIDE CONTAINMENT

PHILLIPS, GETSCHOW CO.

IRH-02



VALVE BONNET BOLTING					
VALVE NO.	VALVE TYPE	NO OF BOLTS	BOLT DIA	BOLT TYPE	VALVE MANUF

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF RESIDUAL HEAT REMOVAL
LINE 1RH01AA-12"
INSIDE CONTAINMENT (LOOP-4)

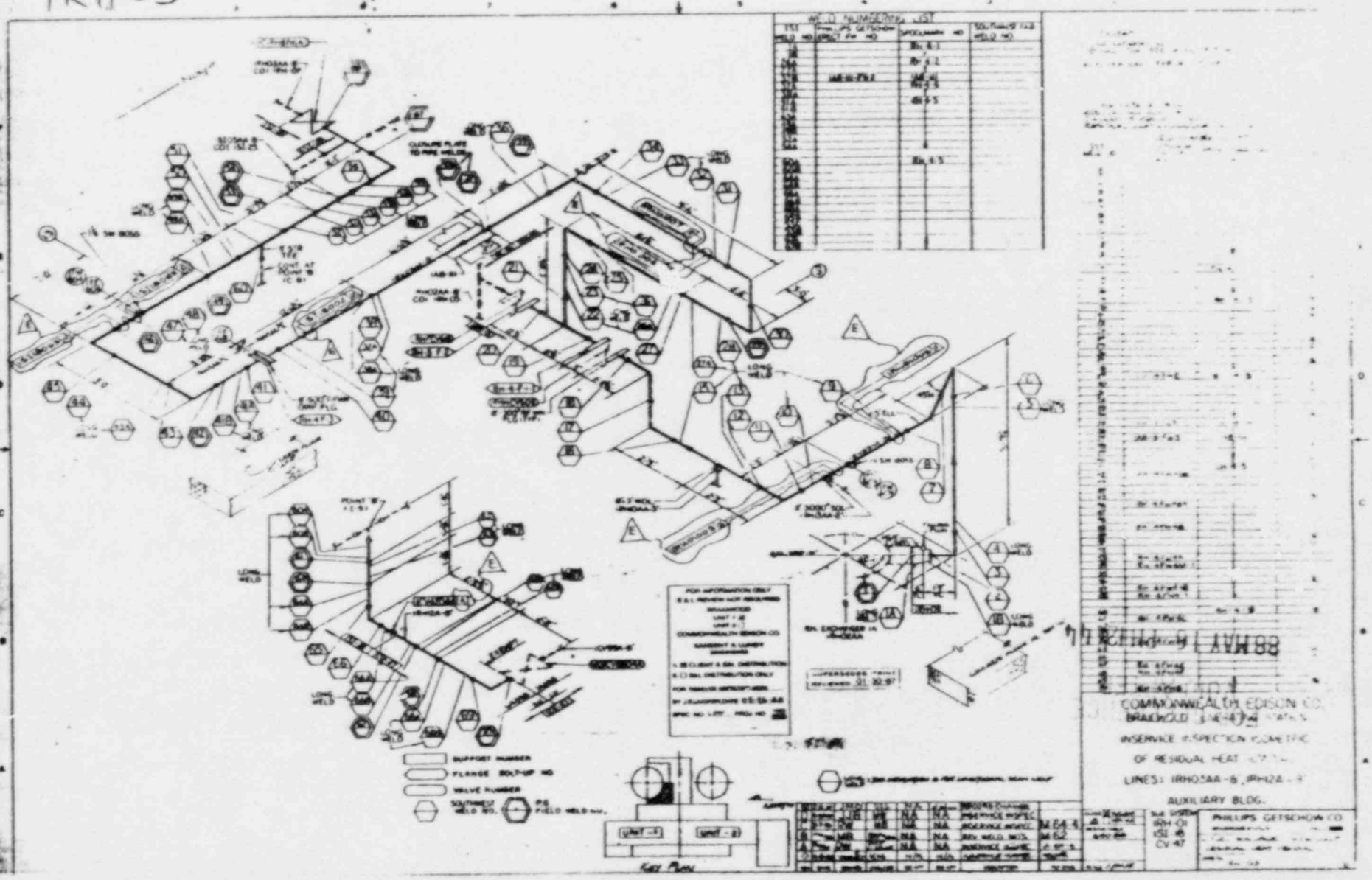
PHILLIPS GETSCHOW CO

RESIDUAL HEAT REMOVAL

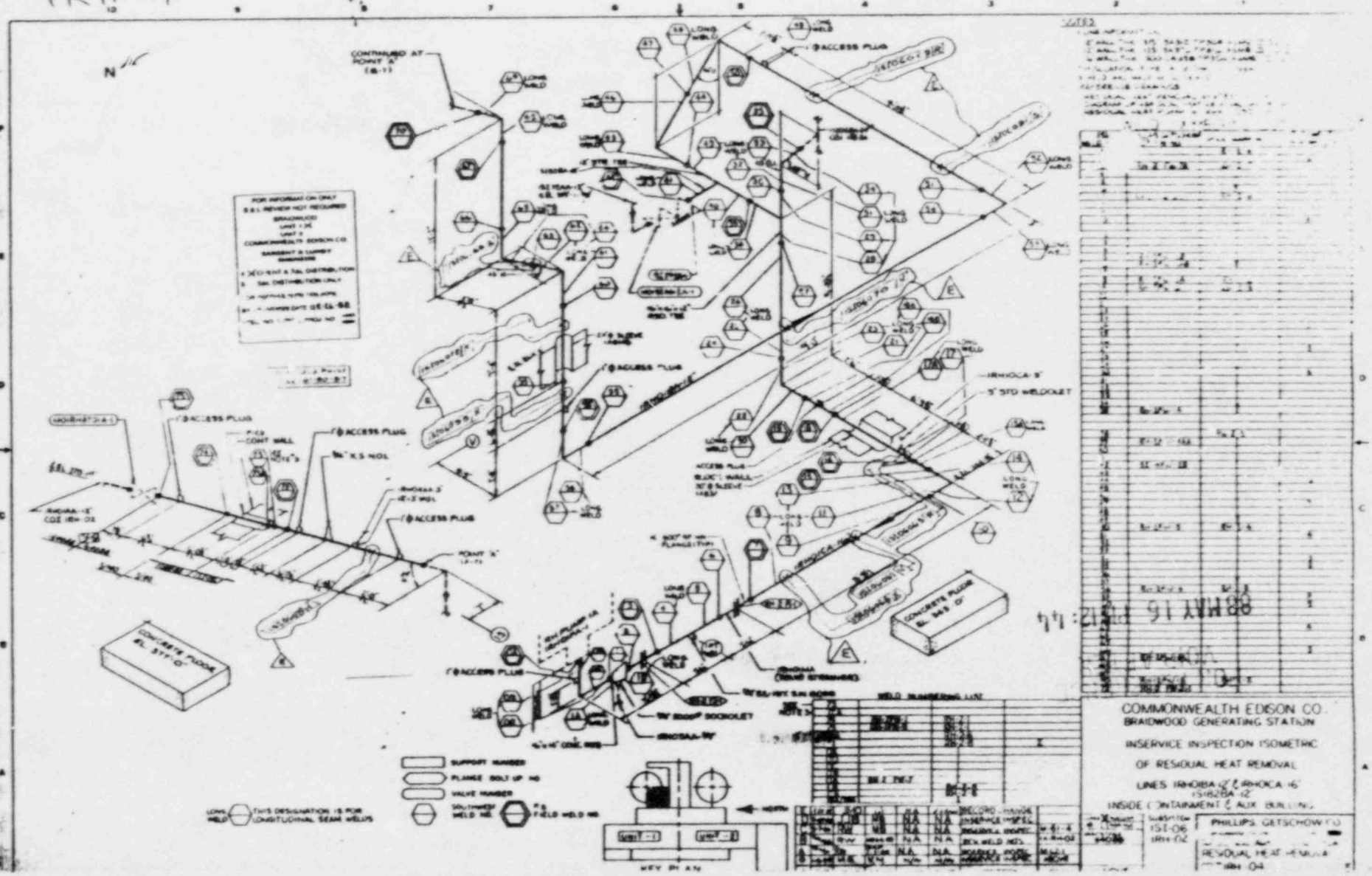
KEY PLAN

88 MAY 16 PM

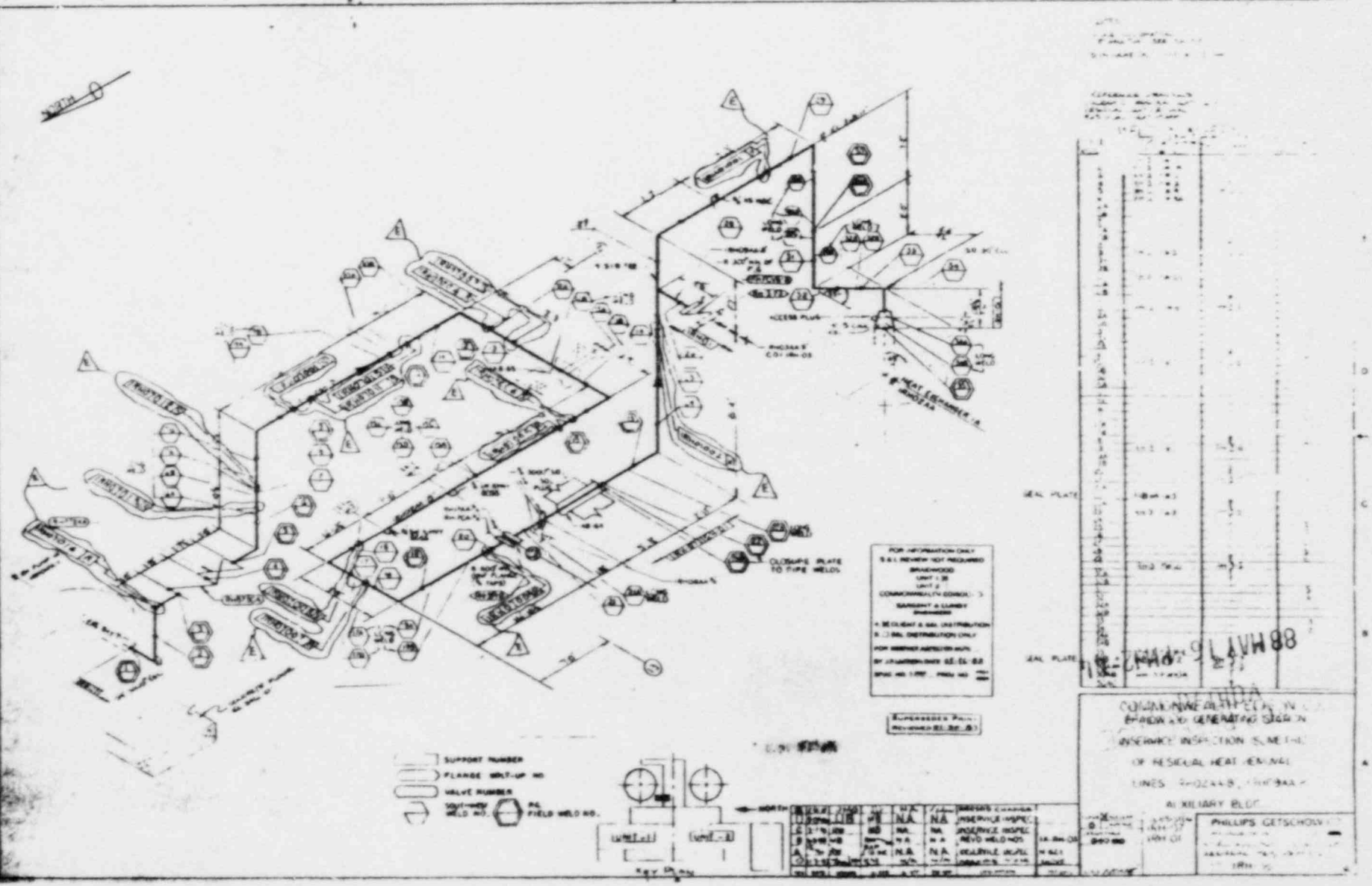
1RH-03


COMMONWEALTH EDISON CO.
INSERVICE INSPECTION ISOMETRIC
OF RESIDUAL HEAT
LINES: 1RH05AA-8, 1RH12A-8
AUXILIARY BLDG.
PHILLIPS GETSCHOW CO.
SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
FIELD WELD NO.

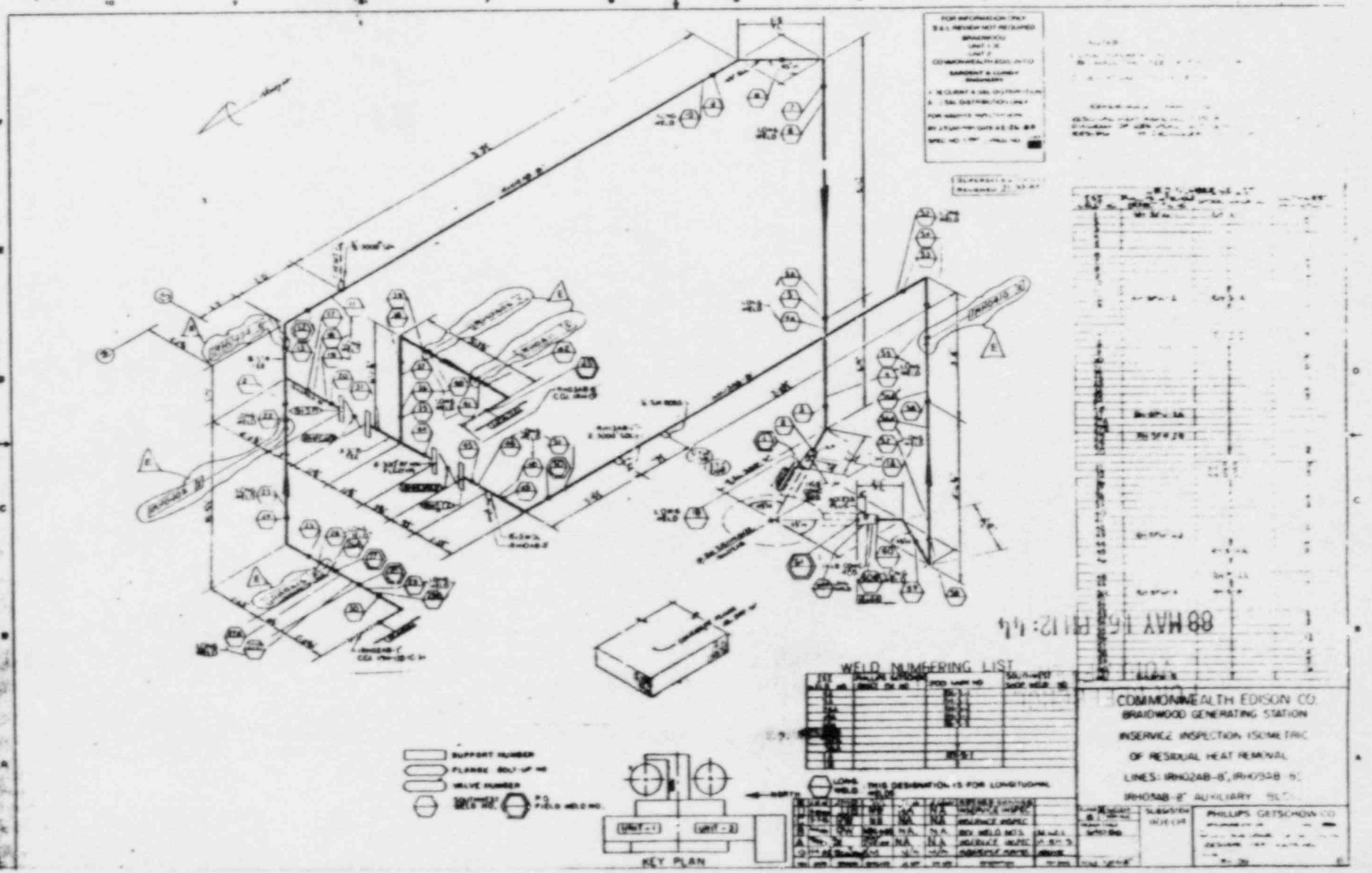
1RH-04


COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF RESIDUAL HEAT REMOVAL
LINES 1RH08A-12" & 1RH01A-16"
1SI-1208A-12
INSIDE CONTAINMENT & AUX. BUILDING
PHILLIPS GETSCHOW CO.
1SI-06
1RH-02
RESIDUAL HEAT REMOVAL
1RH-04

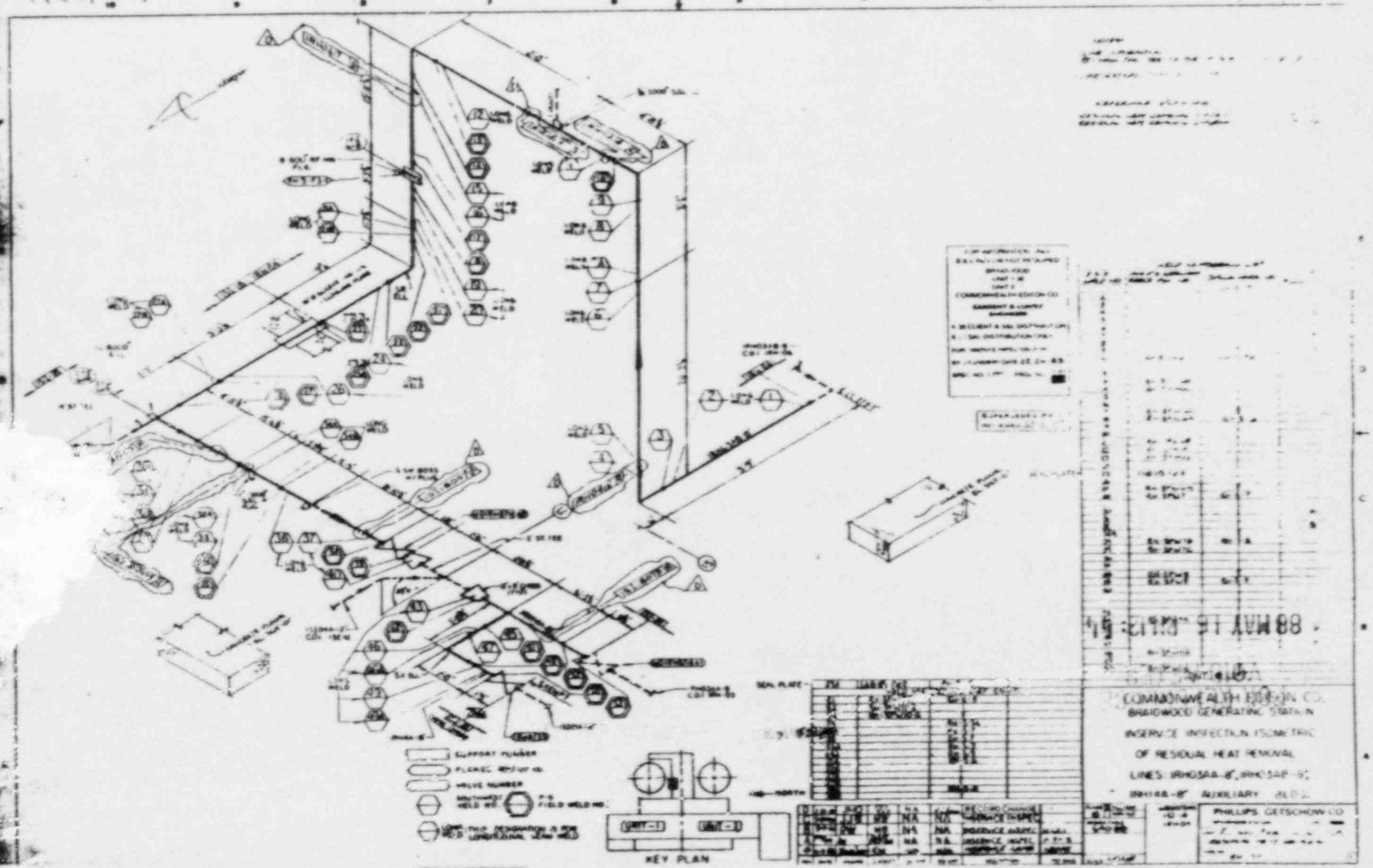
1RH-05



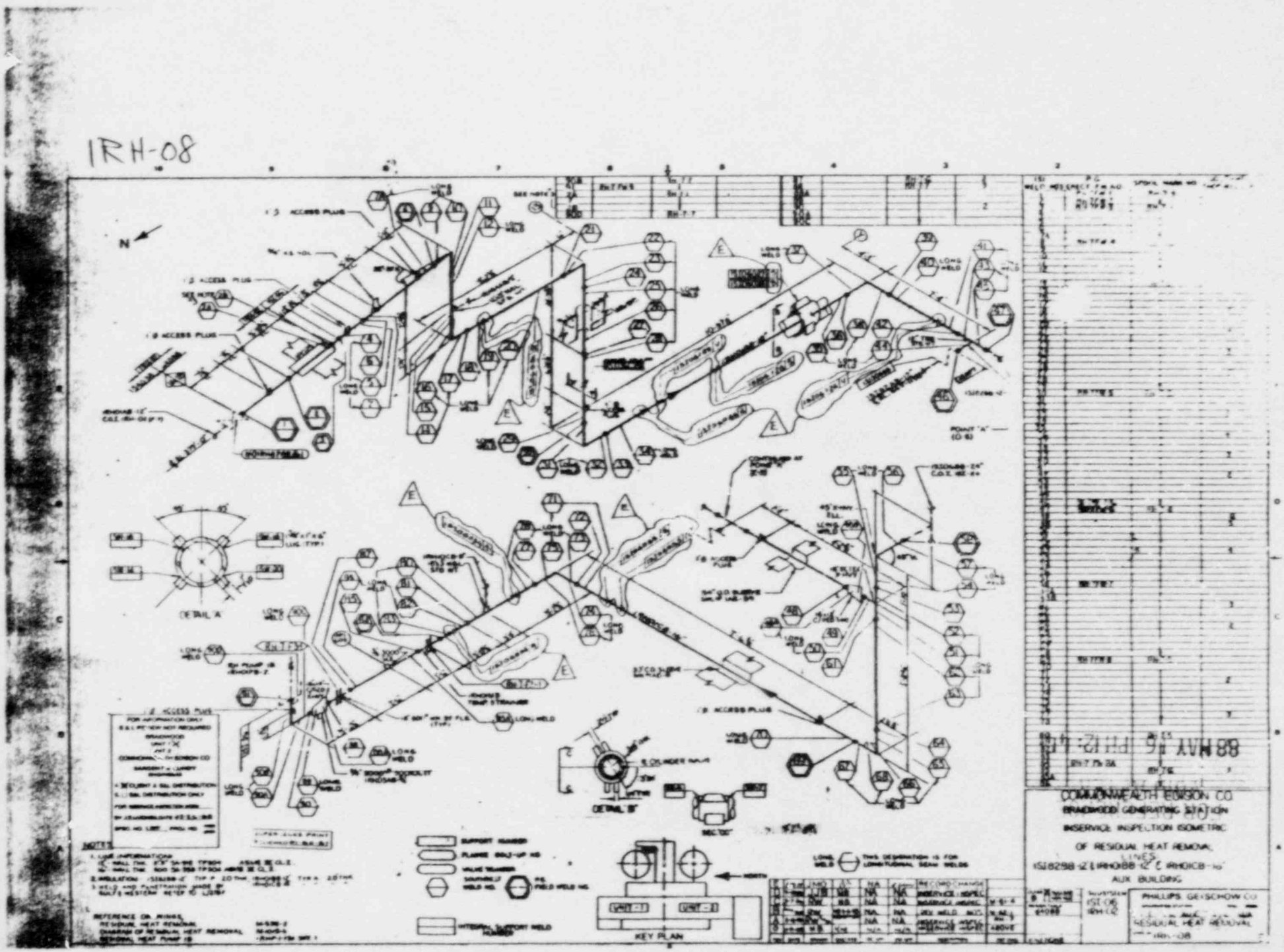
IRH-06


WELD NUMBERING LIST
KEY PLAN
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF RESIDUAL HEAT REMOVAL
LINES: IRH02AB-8", IRH03AB-8"
IRH05AB-8" AUXILIARY
PHILLIPS GETSCHOW CO.

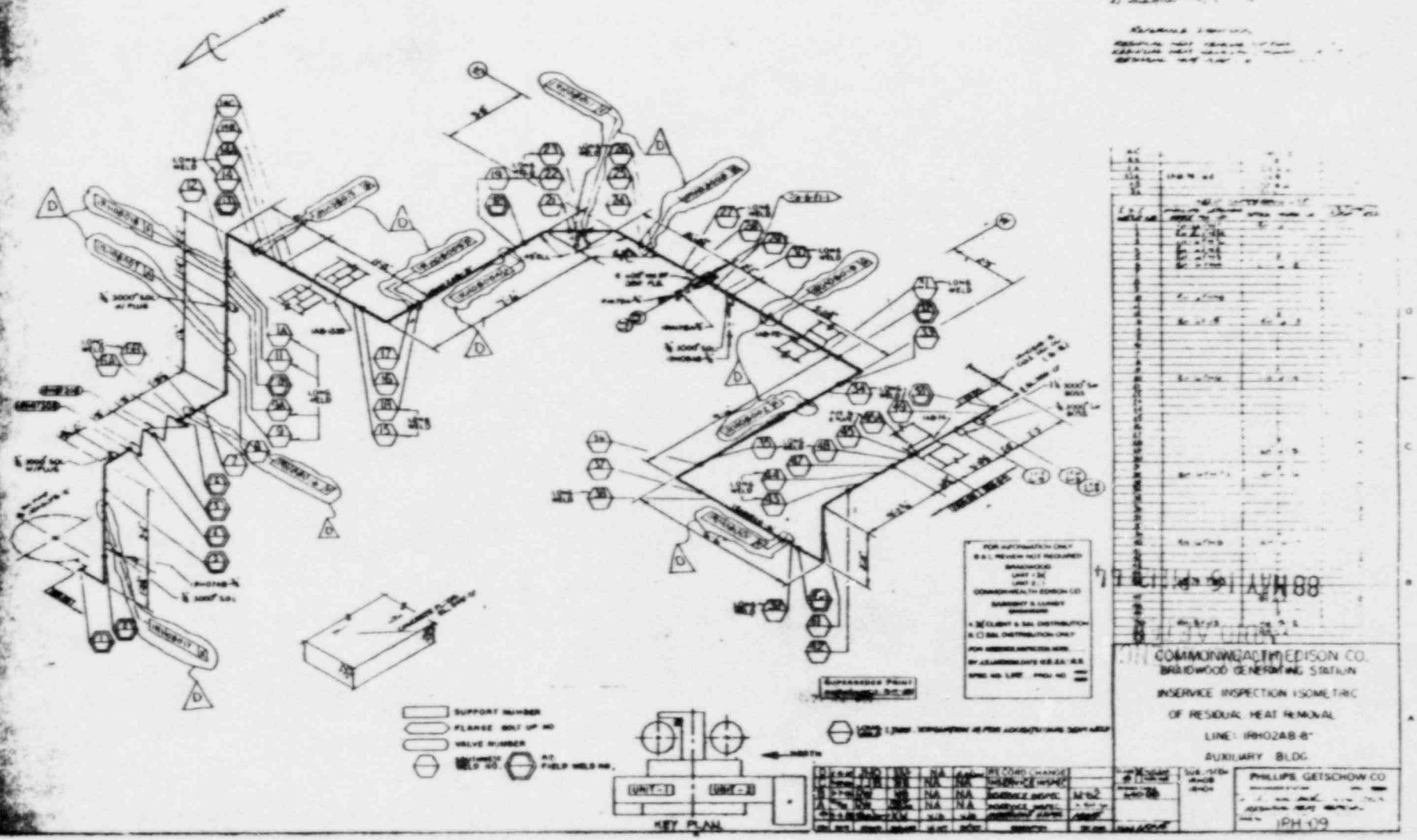
IRH-07


KEY PLAN
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF RESIDUAL HEAT REMOVAL
LINES: IRH05A-8", IRH05AP-8",
IRH14A-8" AUXILIARY BLDG.
PHILLIPS GETSCHOW CO.

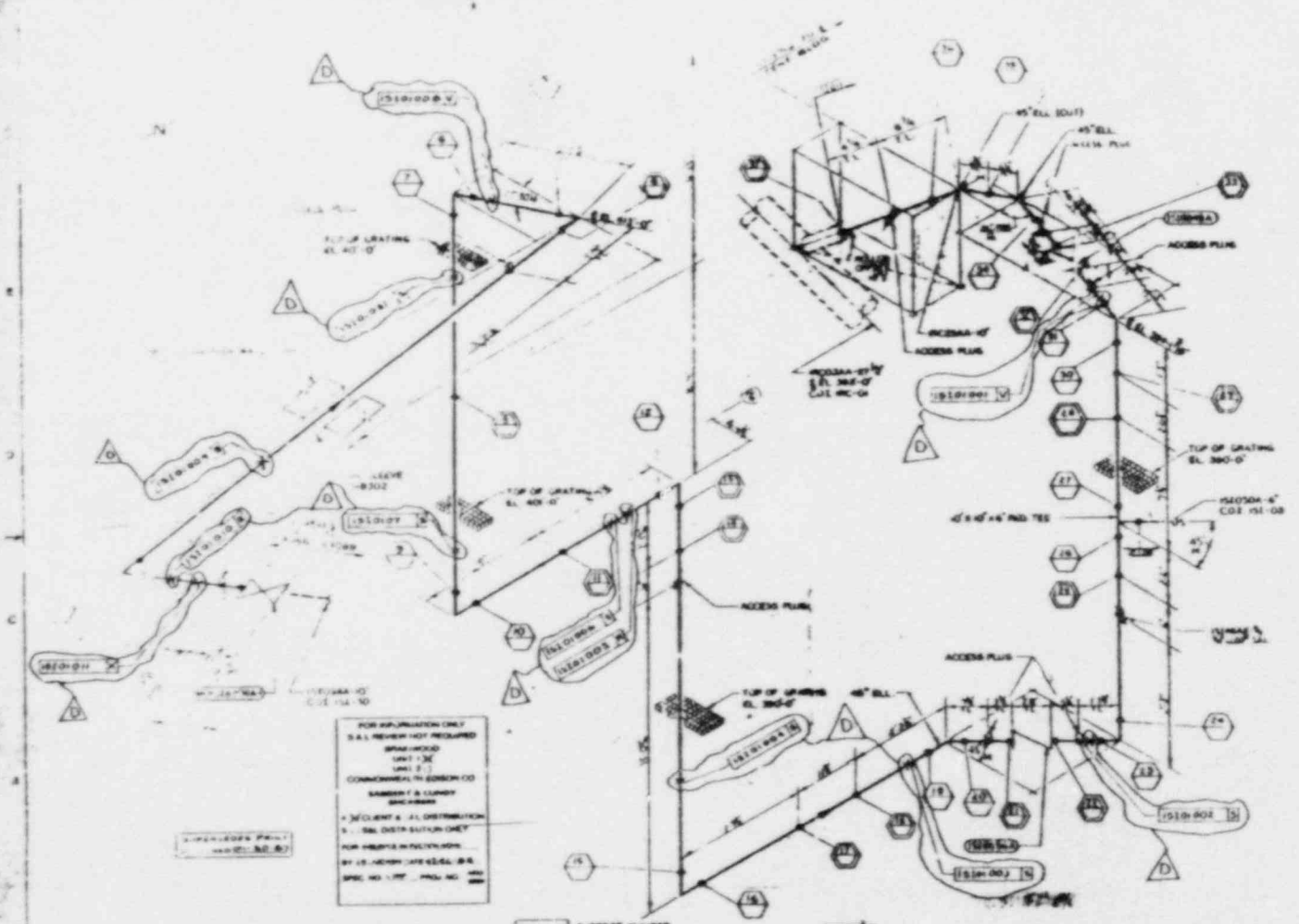
IRH-08

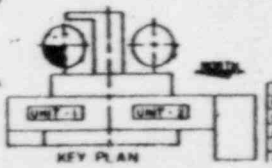

N
DETAIL A
DETAIL B
KEY PLAN
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF RESIDUAL HEAT REMOVAL
AUX BUILDING
PHILLIPS GETSCHOW CO
RESIDUAL HEAT REMOVAL
IRH-08

1RH-09


SUPPORT NUMBER
FLANGE BOLT UP NO
VALVE NUMBER
FIELD WELD NO.
KEY PLAN
UNIT-1
UNIT-2
NORTH
SUPERSEDED PRINT
FOR INFORMATION ONLY
B & L REVIEW NOT REQUIRED
BRAIDWOOD
UNIT 1
UNIT 2
COMMONWEALTH EDISON CO
SARGENT & LUNDY
ENGINEERS
A. RECLAIM & SAL DISTRIBUTION
B. C SAL DISTRIBUTION ONLY
FOR ASSEMBLY/INSPECTION WORK
BY ASSEMBLY/MATE (C.E.S.A. B.S.
SPEC NO. UNIT PROJ NO.
88 MAY 16
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF RESIDUAL HEAT REMOVAL
LINE: 1RH02AB-8"
AUXILIARY BLDG.
PHILLIPS GETSCHOW CO
1RH-09

ISI-01

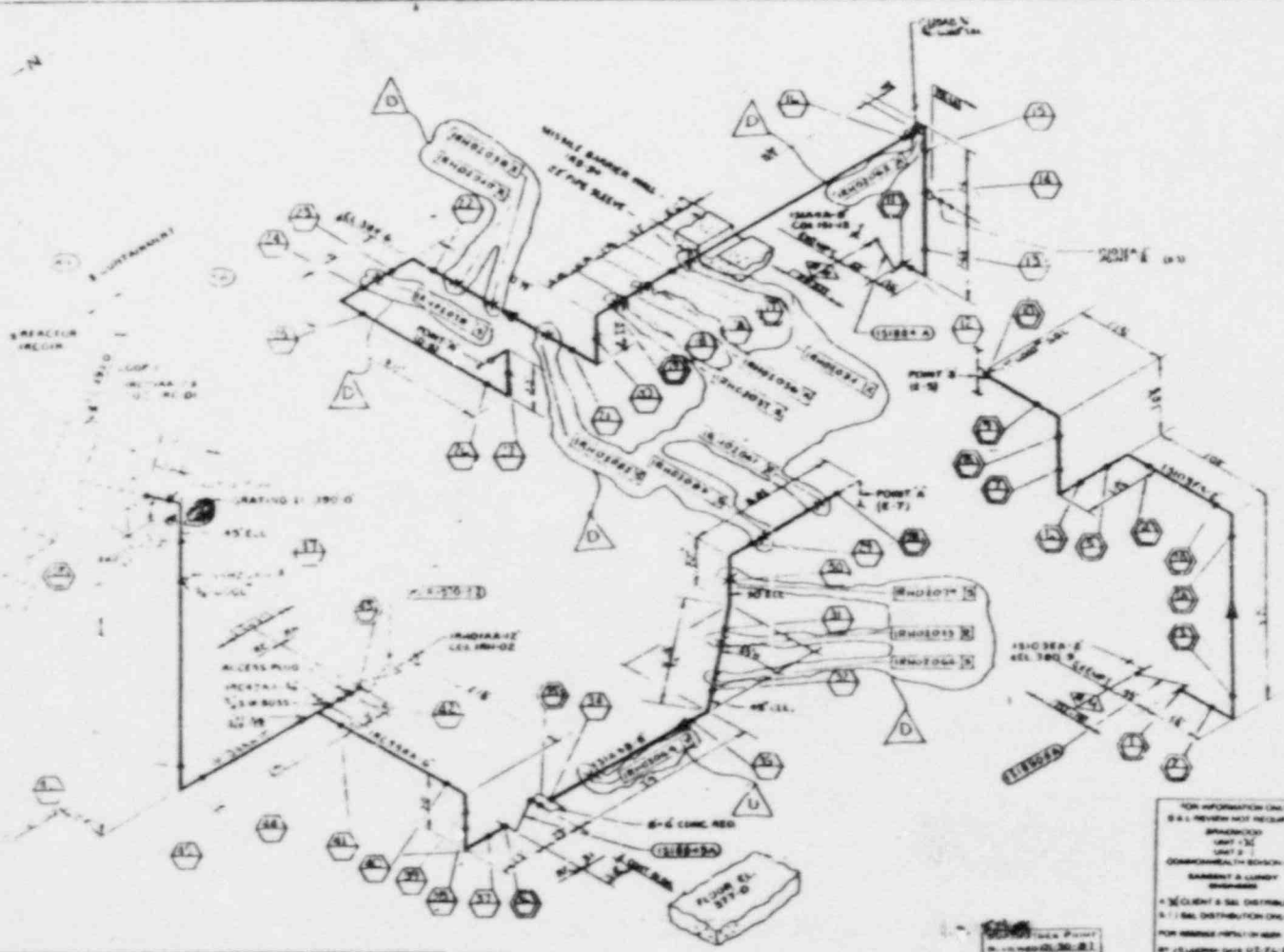




VALVE BONNET BOLTING

88 MAY 16 PM 12:44

ISI-02



VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUFACTURER	MANUFACTURER DWG. NO.
[illegible]	[illegible]	12	1 1/8	STUD ASTM A193 GR B7	WESTINGHOUSE	8312012
[illegible]-418	"	"	"	"	"	8312019

SUPPORT NUMBER
FLANGE BOLT-UP NUMBER
VALVE NUMBER
WELD NO. / FIELD WELD NO.

NORTH

UNIT-1 UNIT-2

NO.	DATE	BY	CHECKED	RECORD CHANGE
[illegible]	[illegible]	[illegible]	N/A	N/A
[illegible]	[illegible]	[illegible]	N/A	N/A
[illegible]	[illegible]	[illegible]	N/A	N/A
[illegible]	[illegible]	[illegible]	N/A	N/A

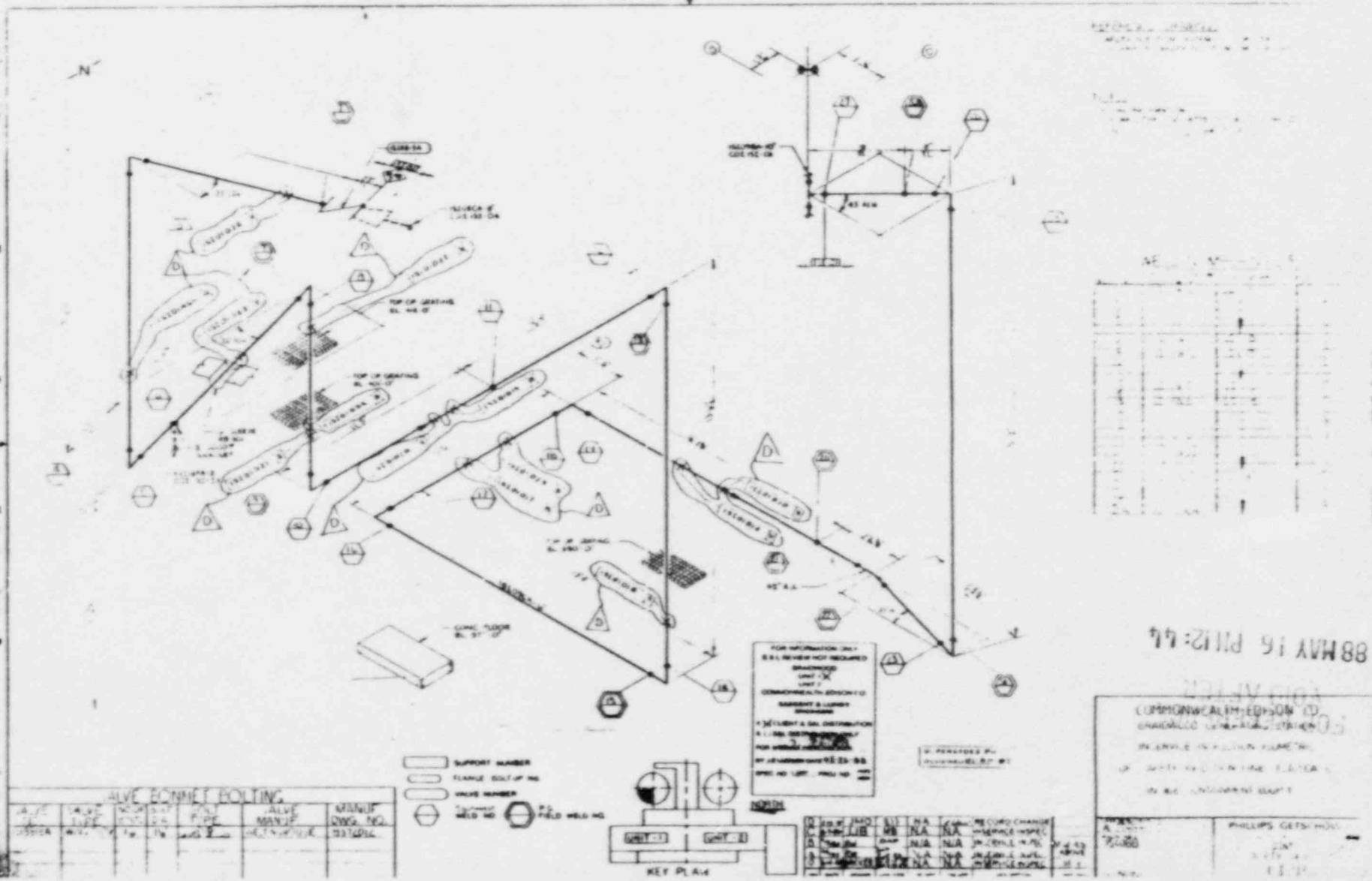
FOR INFORMATION ONLY
SAFETY REVIEW NOT REQUIRED
BRAIDWOOD
UNIT 1 2
COMMONWEALTH EDISON CO.
SARGENT & LUNDY ENGINEERS
CLIENT & SEL DISTRIBUTION
SEL DISTRIBUTION ONLY
FOR REVIEW REFERENCE ONLY
BY SARGENT & LUNDY ENGINEERS
SPEC NO. [illegible] REV NO. [illegible]

88 MAY 16 P1:12:44

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
UNIT 2 TO LOOP A
INTERIOR

PHILLIPS GETSCHOW CO

ISI-03

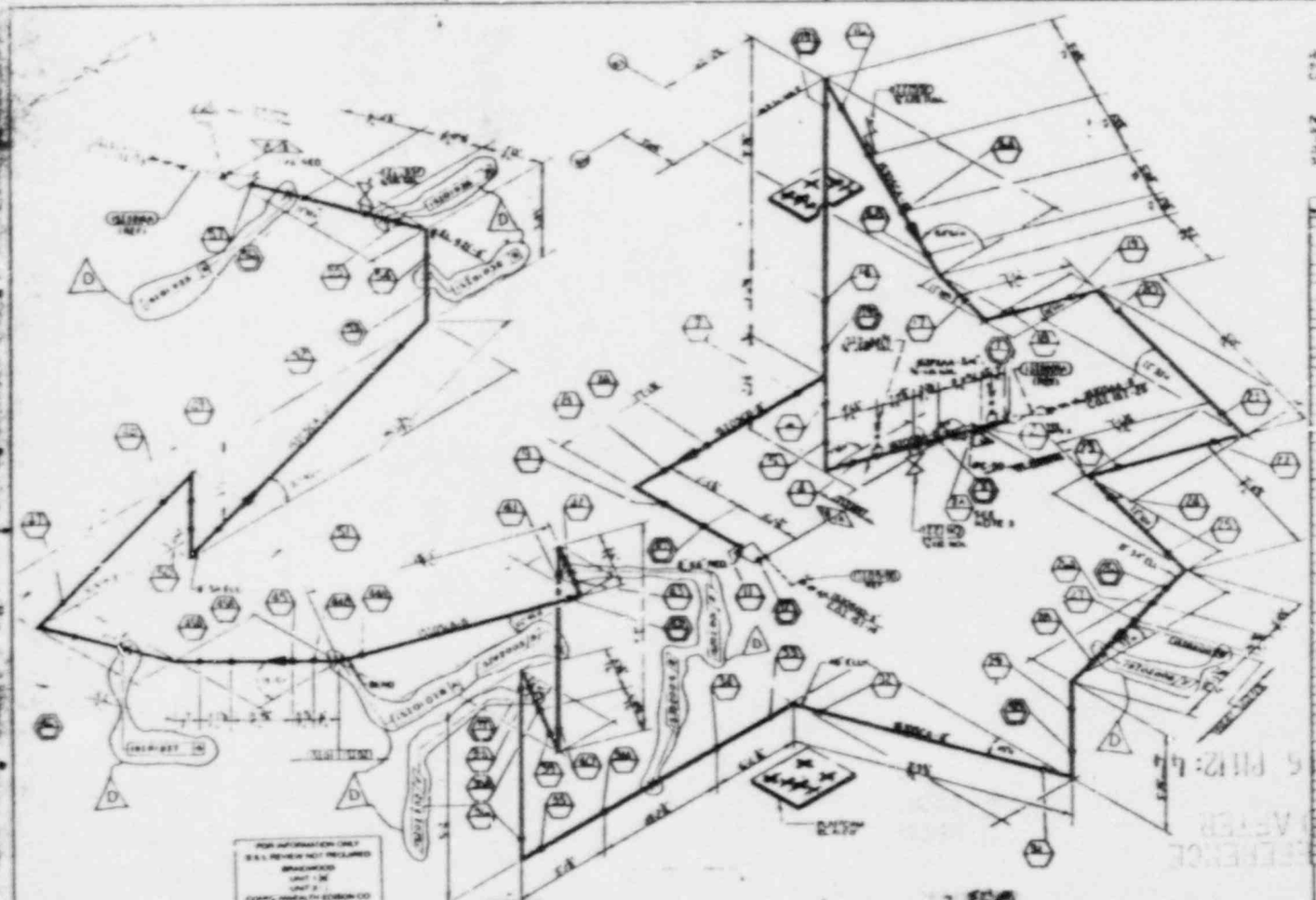


VALVE BONNET BOLTING						
VALVE NUMBER	VALVE SIZE	NO. OF STUDS	STUD SIZE	VALVE PIPE	VALVE MANUF.	MANUF. DWG. NO. STUD MATL.

88 MAY 16 P12:44

COMMONWEALTH EDISON CO.

ISI-04



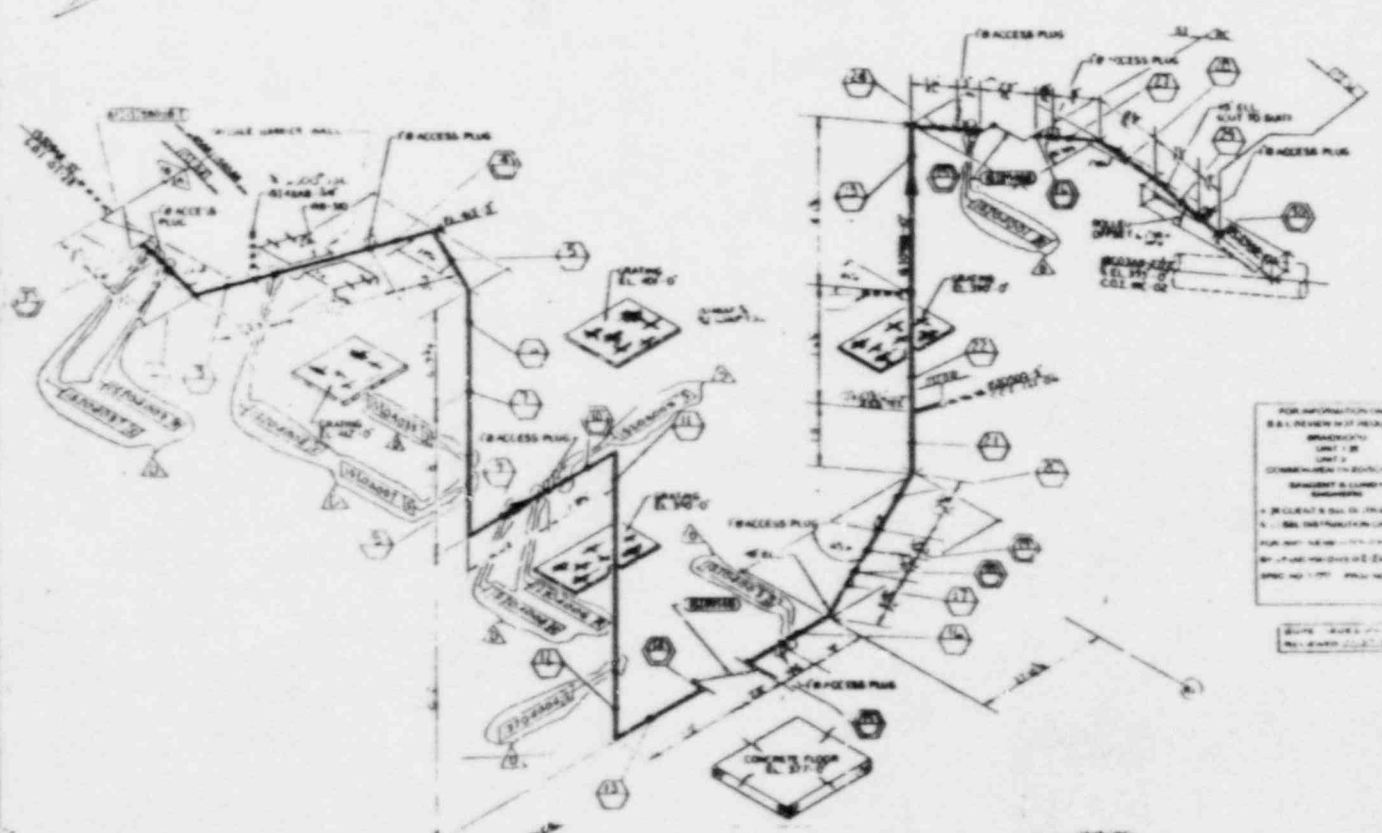
REFERENCE DRAWINGS

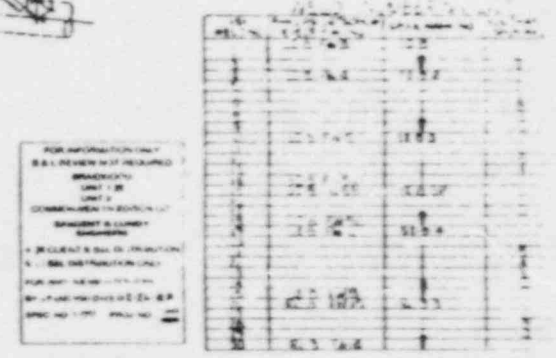
NOTES

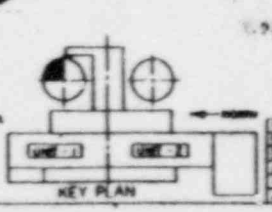
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION
SAFETY INJECTION SYSTEM
ISI-04

1SI-05







VALVE BONNET BOLTING

VALVE NO	VALVE TYPE	BOLT DIA	BOLT TYPE	VALVE MANUF	MANUF DRWG NO

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
1RC7948-10 & 1SI0988-10

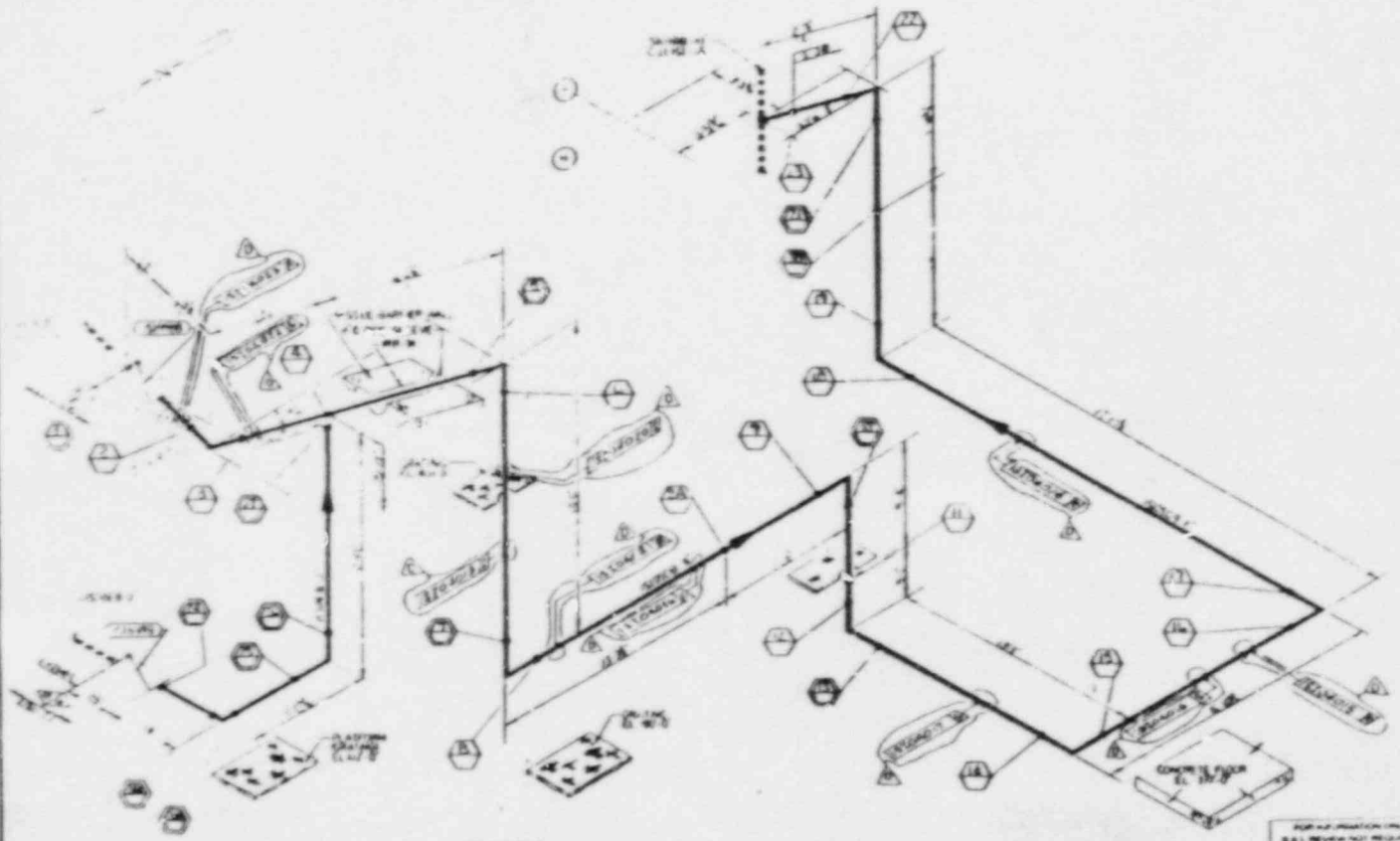
INSIDE CONTAINMENT LOOP 2

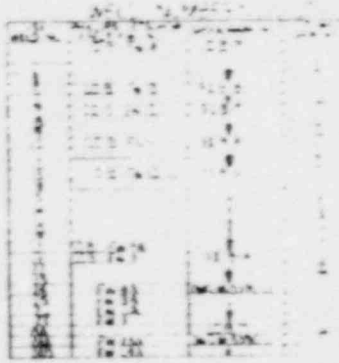
PHILLIPS GETSCHOW

SAFETY INJECTION

88 MAY 16 PM 12:44

1SI-06





VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DWNG. NO.
[illegible]	SWING CHECK	16	1"	[illegible]	WESTINGHOUSE	6X50H

SUPPORT NO.
FLANGE BOLT-UP NO.
VALVE NO.
WELD NO.
F.S. FIELD WELD NO.

KEY PLAN

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

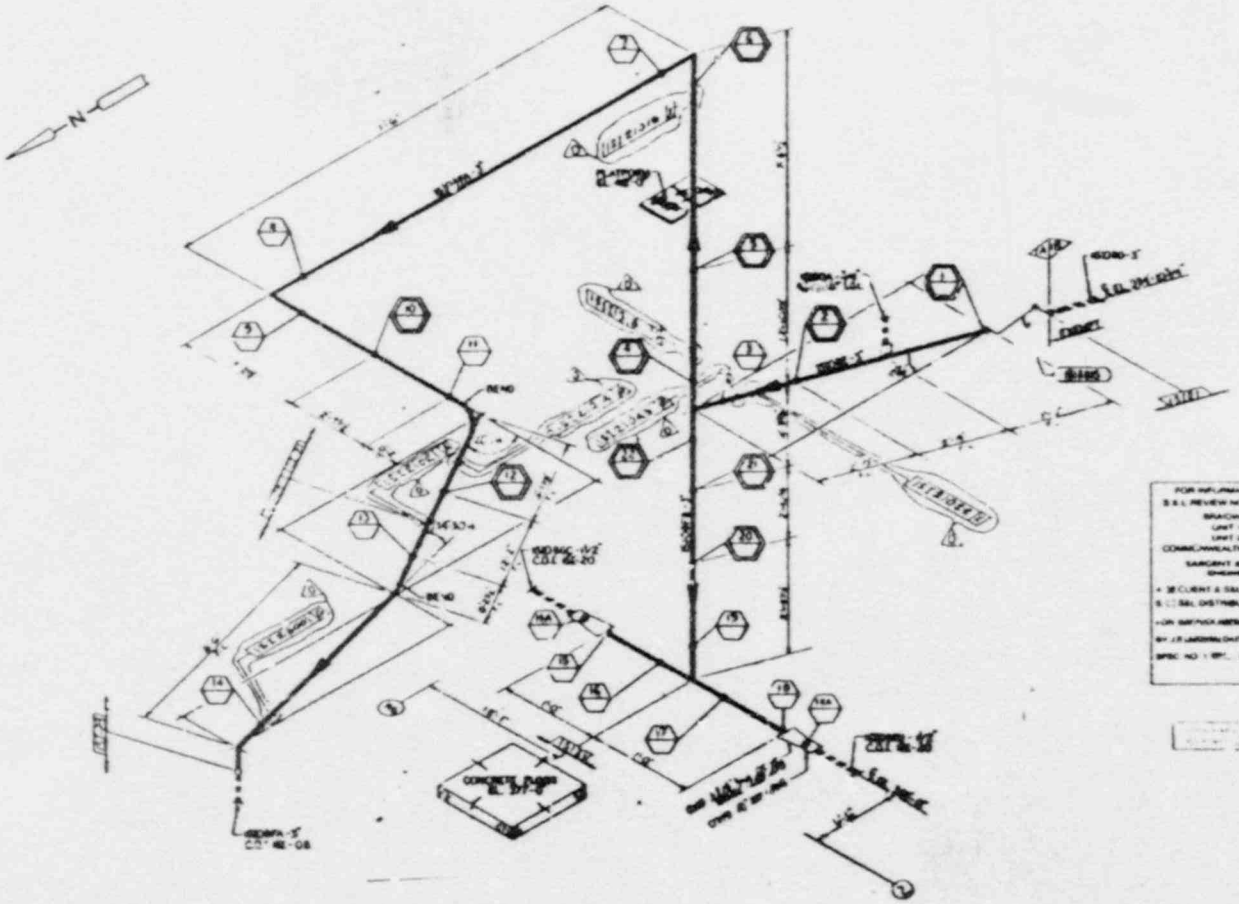
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
1SI05B-C & 1SI15P-2

INDEX CONTAINMENT LOOP 2

PHILLIPS GETSCHOW

88MAY 16 PM 12:44

ISI-07



COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
1SI08FA-3", 1SI08FB-3" AND 1SI08E-3"

INSIDE CONTAINMENT LOOP 4

PHILLIPS GETSCHOW CO

VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DRWG. NO.
[illegible]	SWING CHECK	16	.875	SA193 GR B7	WESTINGHOUSE	833004

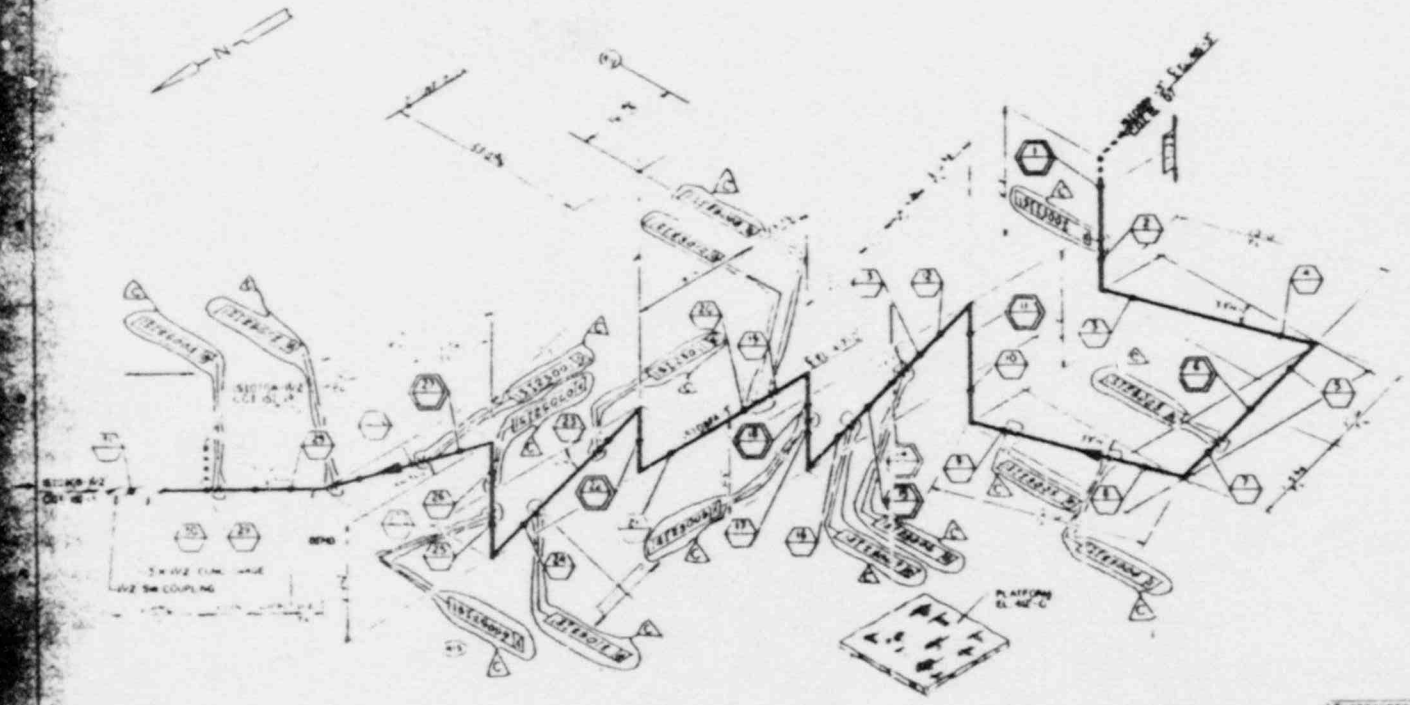
SUPPORT NO.
FLANGE BOLT UP NO.
VALVE NO.
SHOP/FIELD WELD NO.
PG FIELD WELD NO.

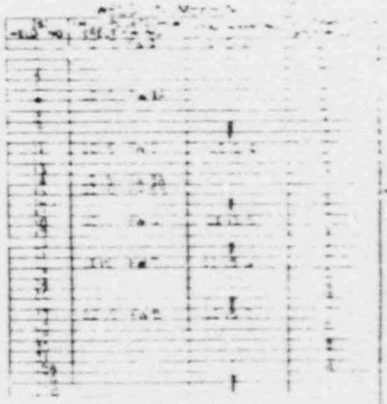
NO.	DESCRIPTION	BY	DATE	APPROVED
0	[illegible]	[illegible]	N.A.	N.A.
C	[illegible]	[illegible]	N.A.	N.A.
B	[illegible]	[illegible]	N.A.	N.A.
A	[illegible]	[illegible]	N.A.	N.A.
0	[illegible]	[illegible]	N.A.	N.A.

RECORD CHANGE
INSERVICE INSPEC
INSERVICE INSPEC
INSERVICE INSPEC

88 MAY 16 P1:44

ISI-08





REFERENCE DRAWINGS

NOTES

88 MAY 16

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE
1SI08FA-3"

INSIDE CONTAINMENT

PHILLIPS GETSCHOW CO

SAFETY INJECTION SYSTEM
ISI

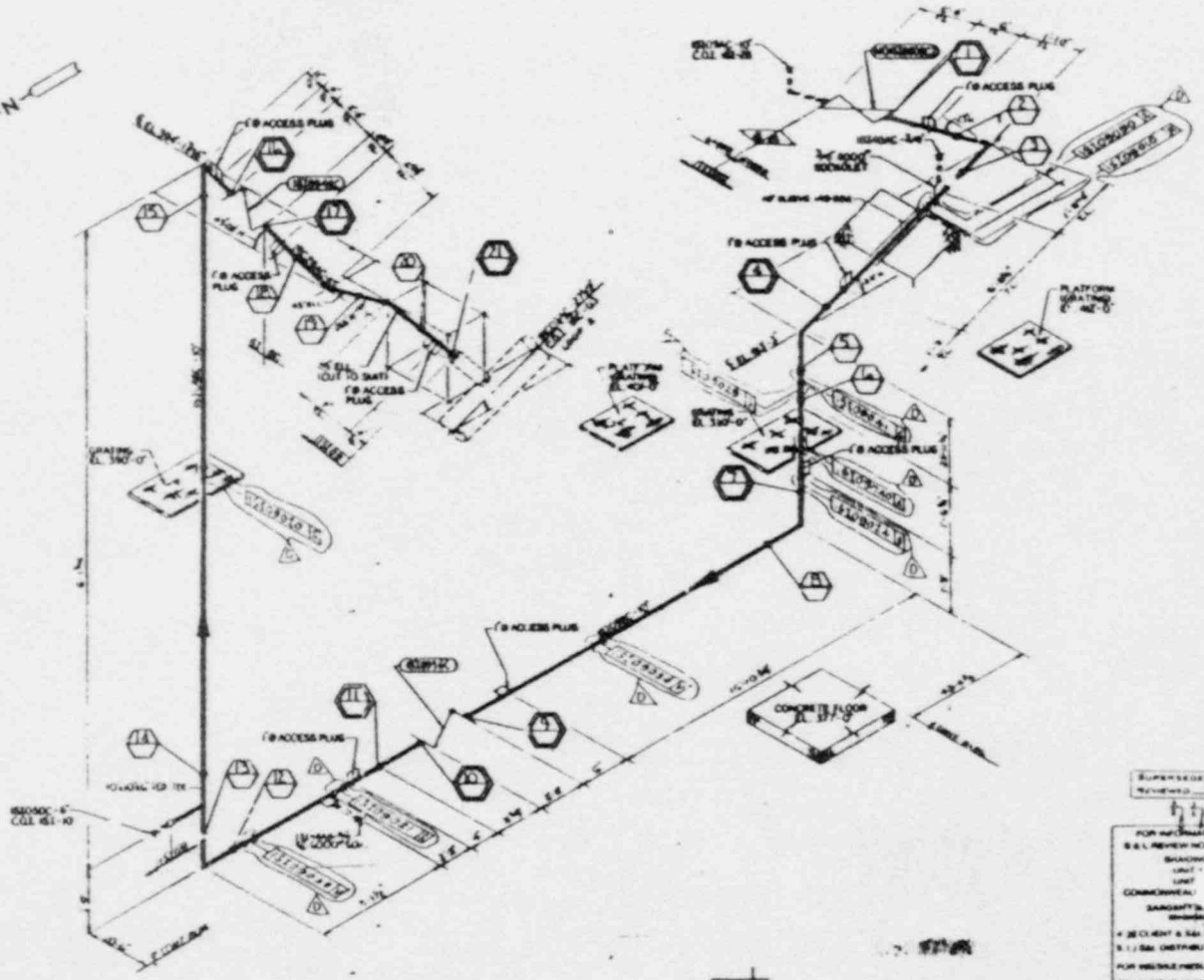
SUPPORT NO.
FLANGE BOLT UP NO.
VALVE NO.
SHOP/FIELD WELD NO.
F.O. FIELD WELD NO.

KEY PLAN

NORTH

C			N.A.		RECORD CHANGE
B			N.A.		RELEASE NOTE
A			N.A.		RELEASE NOTE
0			N.A.		RELEASE NOTE

ISI-09



VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF RING NO.
	GATE	8	1 5/8	SA-193 B7	WESTINGHOUSE	837431
						837018

SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SOUTHERN WELD NO.
AIR FIELD WELD NO.

KEY PLAN

REVISED CHANGE					
C		JJB	NA	NA	INSERVICE INSPE
B			NA	NA	INSERVICE INSPE
A			NA	NA	INSERVICE INSPE
0			NA	NA	INSERVICE INSPE

PREFERENCE DRAWINGS

NOTES

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
RC29AC-10" & IS1079BC-10"

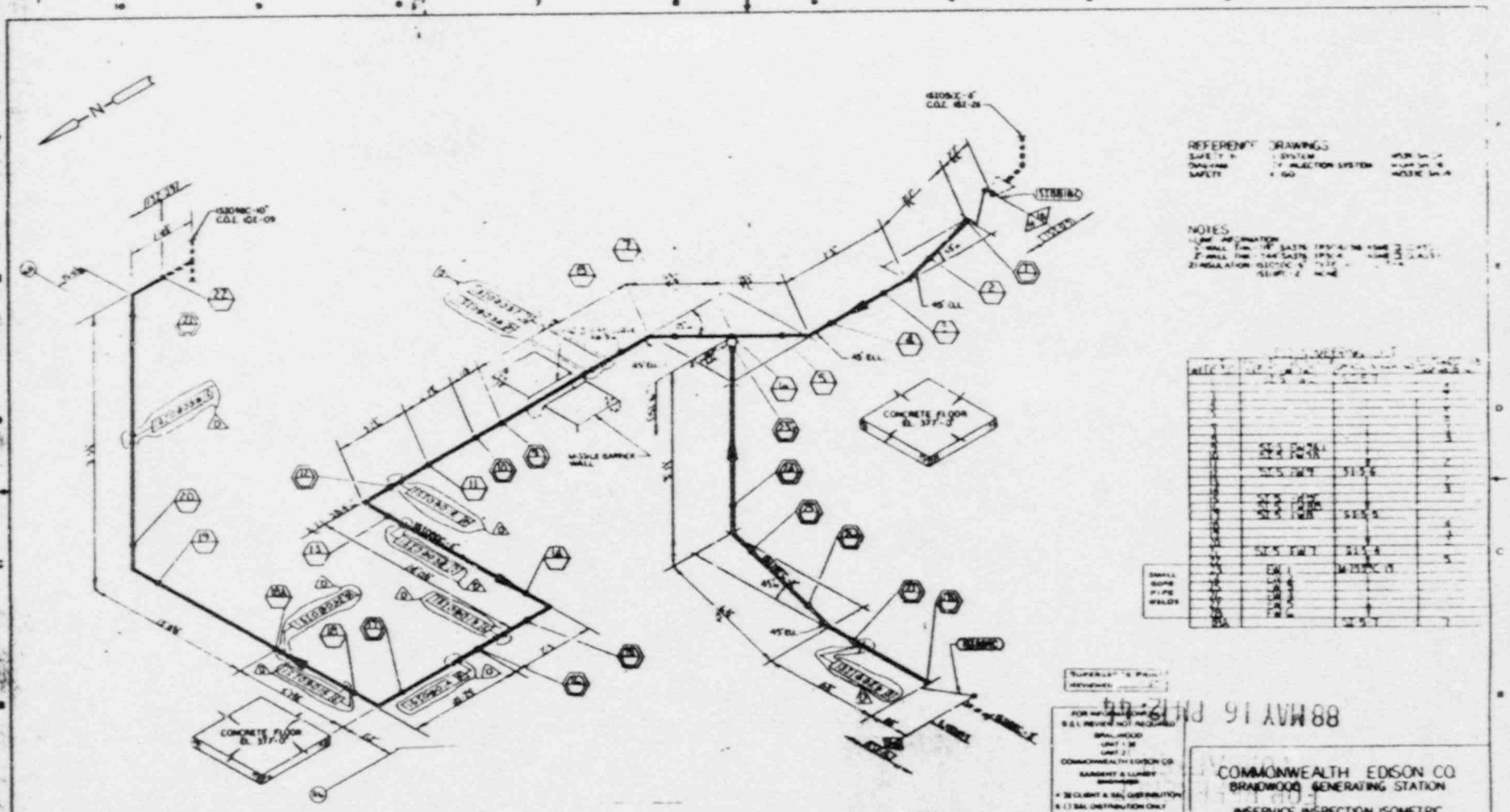
INSIDE CONTAINMENT LOOP 1

PHILLIPS GETSCHOW CO

SAFETY INJECTION SYSTEM
ISI-09

88 MAY 16 PM 12:44

1SI-10



VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DRWG. NO.
[illegible]	SWING CHECK	16	1½	[illegible]	WESTINGHOUSE	6873D92

SUPPORT NO.
FLANGE BOLT UP NO.
VALVE NO.
SOCKET WELD NO.
F.S. FIELD WELD NO.

KEY PLAN

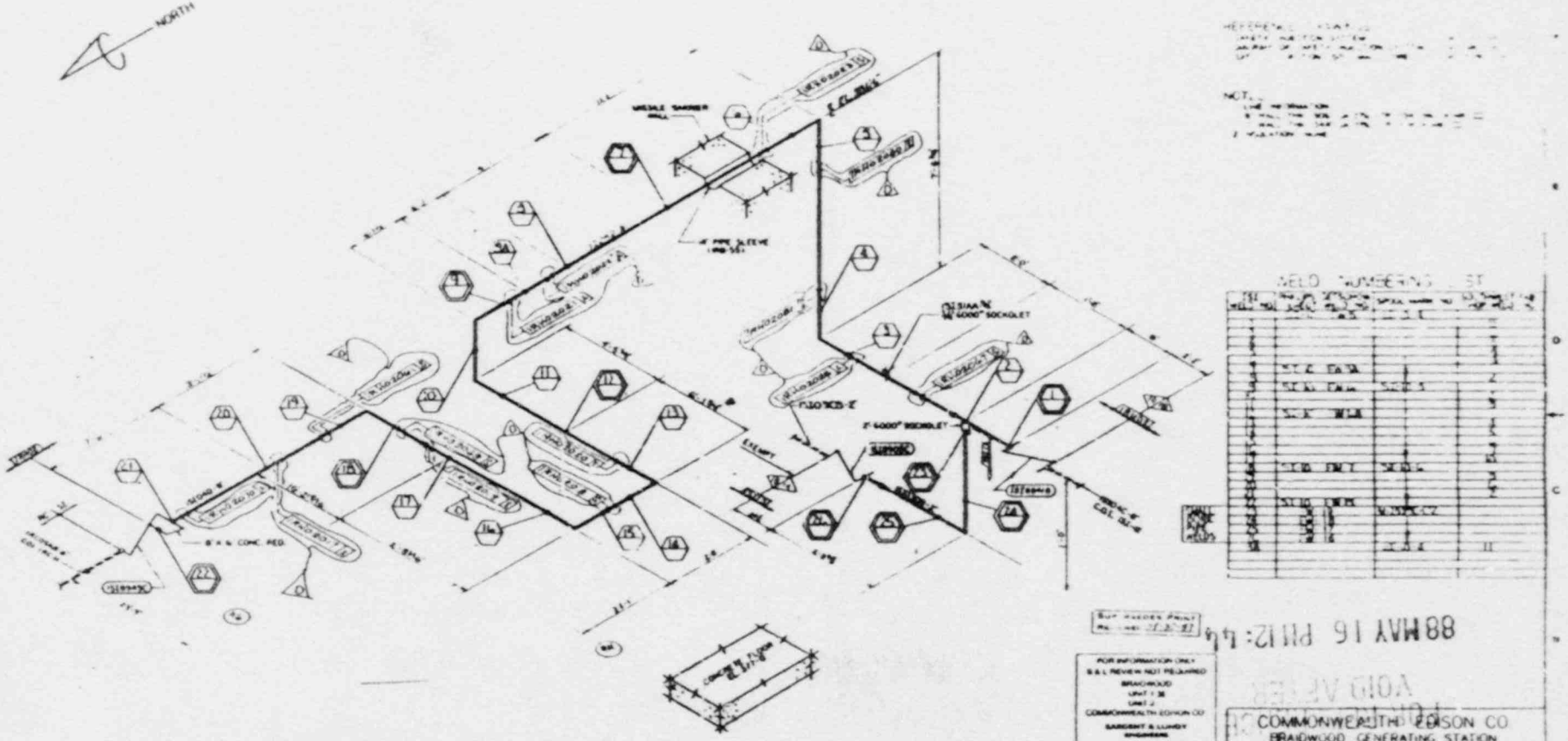
NO.	DATE	BY	CHK	APP	DESCRIPTION
0	3-1-88	JTR	GTF	NA	INSERVICE INSPEC
A	[illegible]	[illegible]	[illegible]	NA	INSERVICE INSPEC
B	[illegible]	[illegible]	[illegible]	NA	INSERVICE INSPEC
C	[illegible]	[illegible]	[illegible]	NA	INSERVICE INSPEC
D	3-1-88	JTR	[illegible]	NA	INSERVICE INSPEC

RECORD CHANGE

COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC OF SAFETY INJECTION LINES 1S1050C-6" & 1S118FC-2"
INSIDE CONTAINMENT LOOP 3

PHILLIPS, GETSCHOW CO.
SAFETY INJECTION SYSTEM
1SI-10

ISI-11



VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF	MANUF DRWG. NO.
1SI8948C	SWING CHECK	16	1"	STUD 2A/2B	WESTINGHOUSE	8372 D12
1SI8948D	"	"	"	"	"	8372 D13

SUPPORT NUMBER
FLANGE BOLT-UP NUMBER
VALVE NUMBER
SOUTHWEST WELD NO.
FIELD WELD NO.

Key Plan

NO.	DATE	BY	CHKD	APPD	DESCRIPTION OF RECORD CHANGE
C	[illegible]	[illegible]	[illegible]	N.A.	N.A. INSERVICE INSPEC
B	[illegible]	[illegible]	[illegible]	N.A.	N.A. INSERVICE INSPEC
A	[illegible]	BAP	[illegible]	N/A	N/A INSERVICE INSPEC
0	[illegible]	[illegible]	[illegible]	N.A.	N.A. INSERVICE INSPEC

FOR INFORMATION ONLY
B & L REVIEW NOT REQUIRED
BRAIDWOOD
UNIT 1 ☒
UNIT 2
COMMONWEALTH EDISON CO
SARGENT & LUNDY ENGINEERS
☒ CLIENT & S&L DISTRIBUTION
CLIENT & S&L DISTRIBUTION ONLY
FOR INSERVICE INSPECTION PURPOSES ONLY
BY (SIGNATURE) DATE 02-26-88
SPEC NO. 1-[illegible] PROJ NO. [illegible]

88 MAY 16 PM 12:44

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

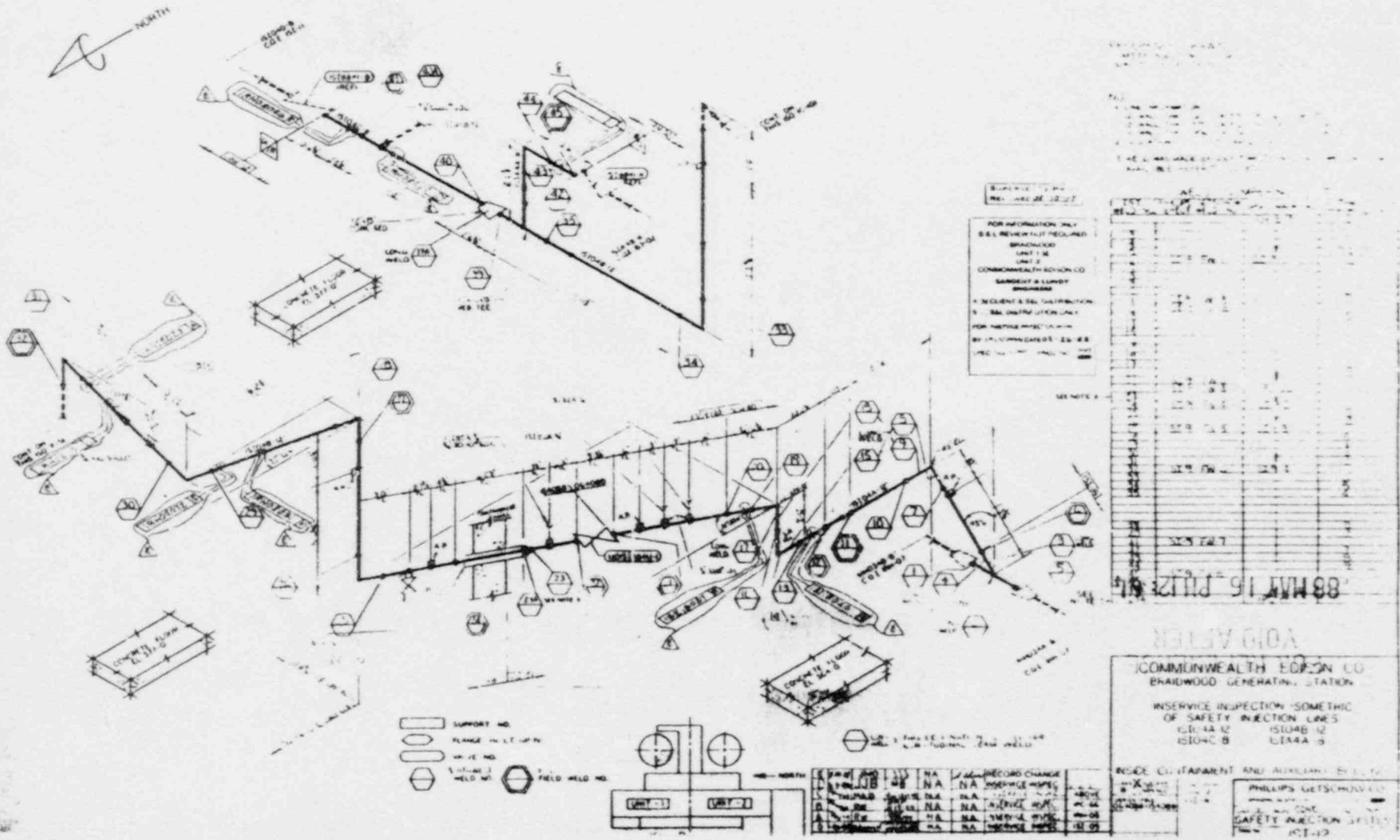
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
1S1040-5 & 1S1036-2

IN-DE CONTAINMENT (SOP-2)

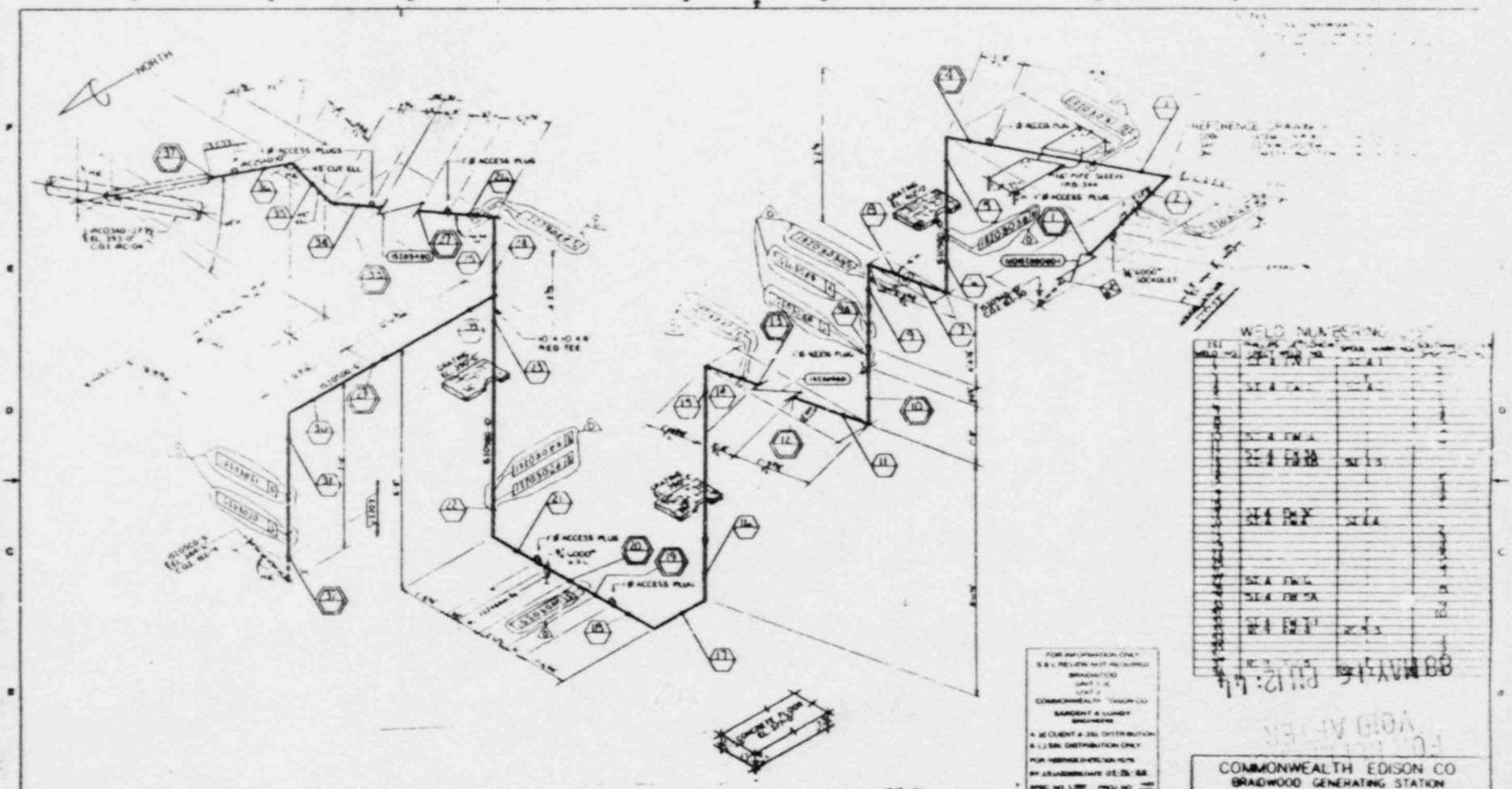
PHILLIPS GETSCHOW

SAFETY INJECTION
1SI-11

ISI-12


NORTH
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION - SOMETHIC
OF SAFETY INJECTION LINES
ISI04A 12
ISI04B 12
ISI04C 8
ISI44A 3
INSIDE CONTAINMENT AND AUXILIARY BUILDING
PHILLIPS GETSCHOW CO
SAFETY INJECTION SYSTEM
ISI-12

ISI-13



VALVE BONNET BOLTING						
VALVE NO.	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. DRWG. NO.
[illegible]	[illegible]	16	1 1/8	STUD	WESTINGHOUSE	837H031
1SI8948D	SWING CHECK					837E014
1SI8948D						

SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SOUTHWEST WELD NO.
AS FIELD WELD NO.

REVISION RECORD CHANGE						

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

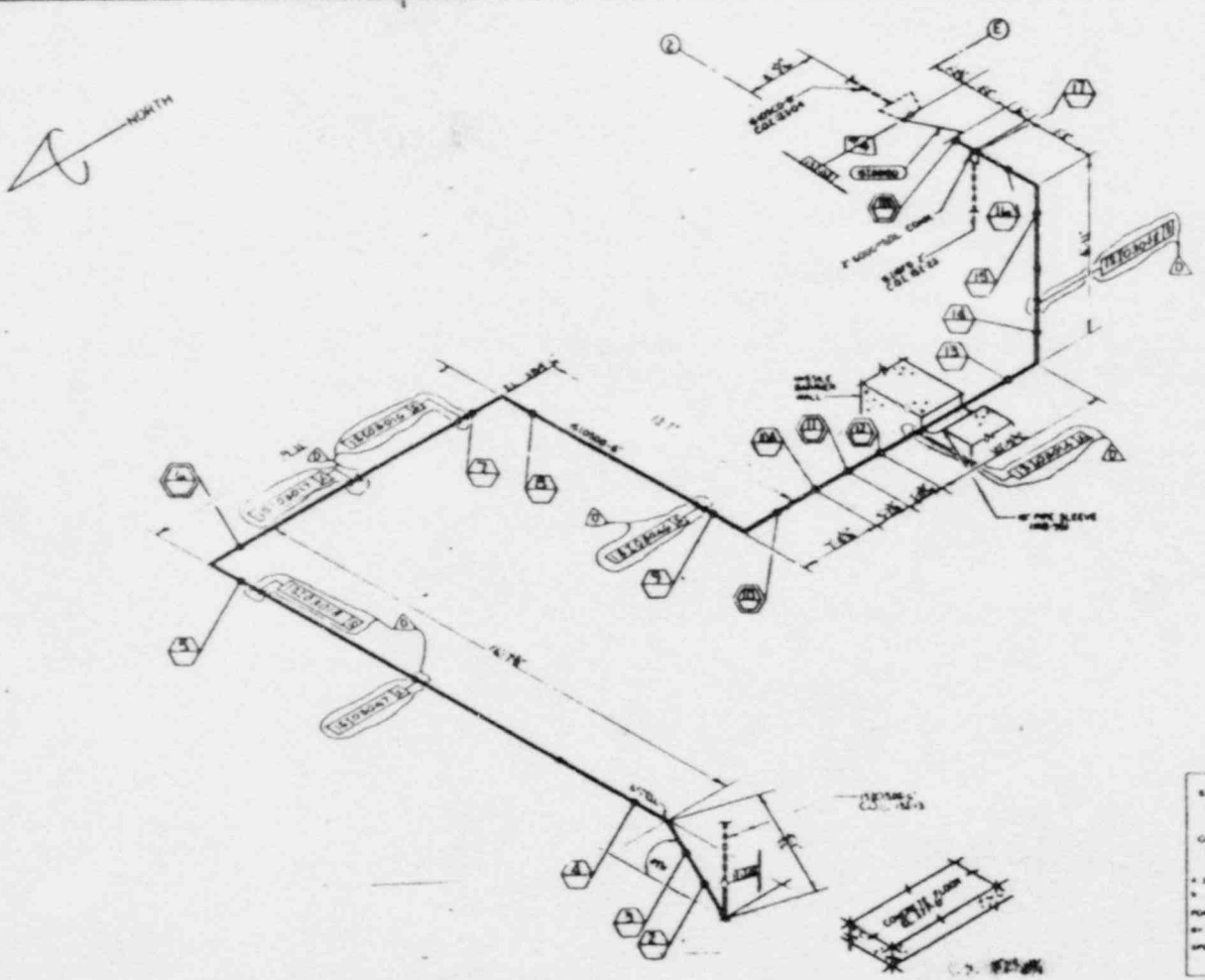
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
IRC29AD-10", 1SI09B0-10" & 1SI0500-6"

INSIDE CONTAINMENT LOOP 4

PHILLIPS, GETSCHOW CO

SAFETY INJECTION SYSTEM

ISI-14



REFERENCE DRAWINGS

WELD NUMBERING LIST

	SEE A DWG		
	SEE A DWG		

VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF DRWG. NO.
1SI8813	SWING CHECK	16	1½"	SA-193 GR B7	WESTINGHOUSE	833728E

SUPPORT NO.
FLANGE BOLT UP NO.
VALVE NO.
SHOP/FIELD WELD NO.
FIELD WELD NO.

KEY PLAN

NO.	DATE	BY	CHK	RECORD CHANGE
C	[illegible]	[illegible]	N.A.	N.A.	INSERVICE INSPEC.
B	[illegible]	[illegible]	N.A.	N.A.	ENGINEERING WORK
A	[illegible]	[illegible]	N.A.	N.A.	INSERVICE INSPEC.
0	[illegible]	[illegible]	N.A.	N.A.	INSERVICE INSPEC.

FOR INFORMATION ONLY
S & L REVIEW NOT REQUIRED
BRAIDWOOD
UNIT 1 &
UNIT 2
COMMONWEALTH EDISON CO
SARGENT & LUNDY ENGINEERS
A - E CLIENT & S&L DISTRIBUTION
B - S&L DISTRIBUTION ONLY
FOR SERVICE INSPECTION WORK
BY [illegible] DATE 12-8-88
SPEC NO. [illegible] PROJ NO. [illegible]

SUPERSEDES P.I.
REVIEWED 12-21-87

88 MAY 16 PM 12:41

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE
1SI0500-6

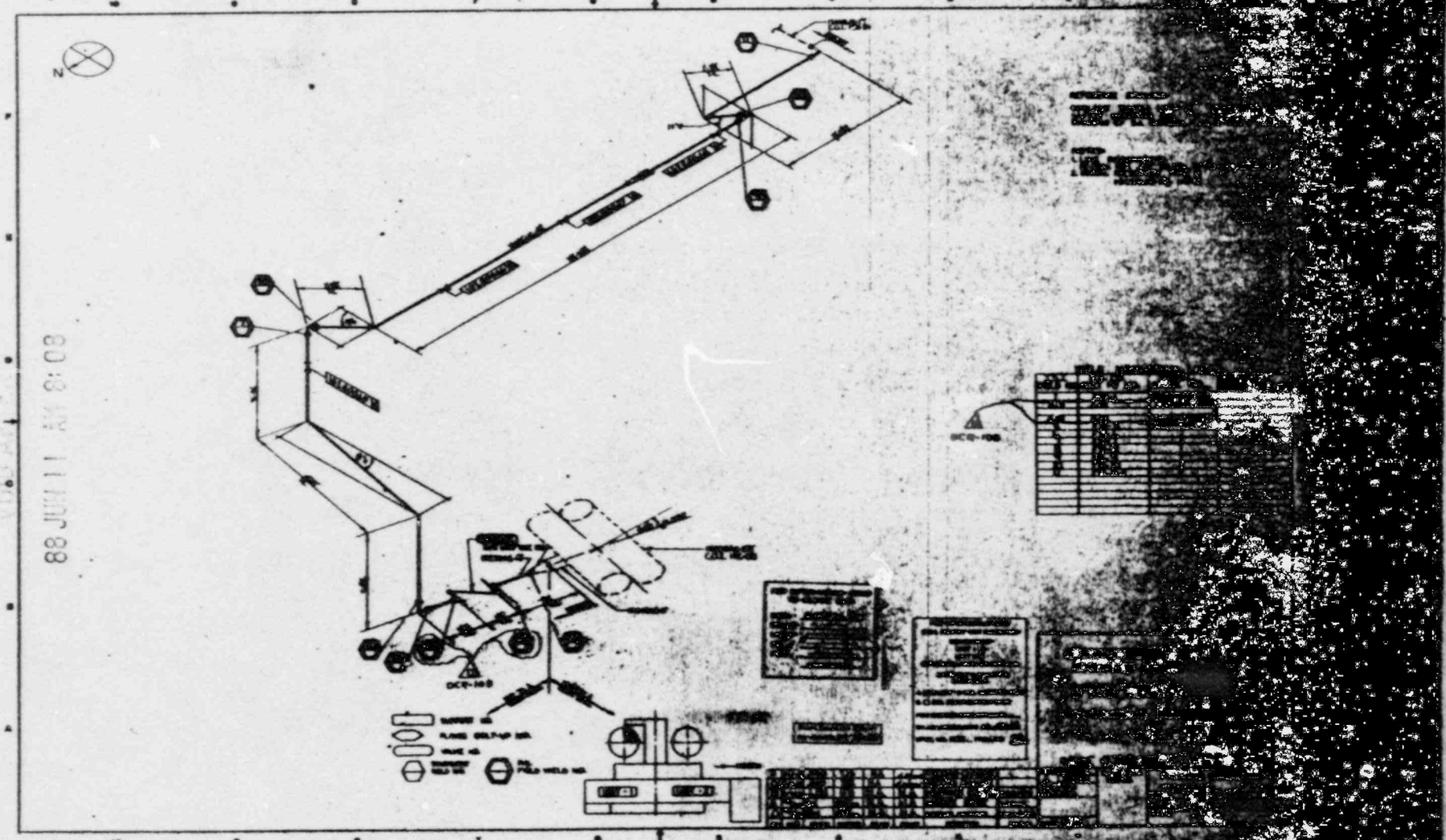
INSIDE CONTAINMENT LOOP 4

1SI03

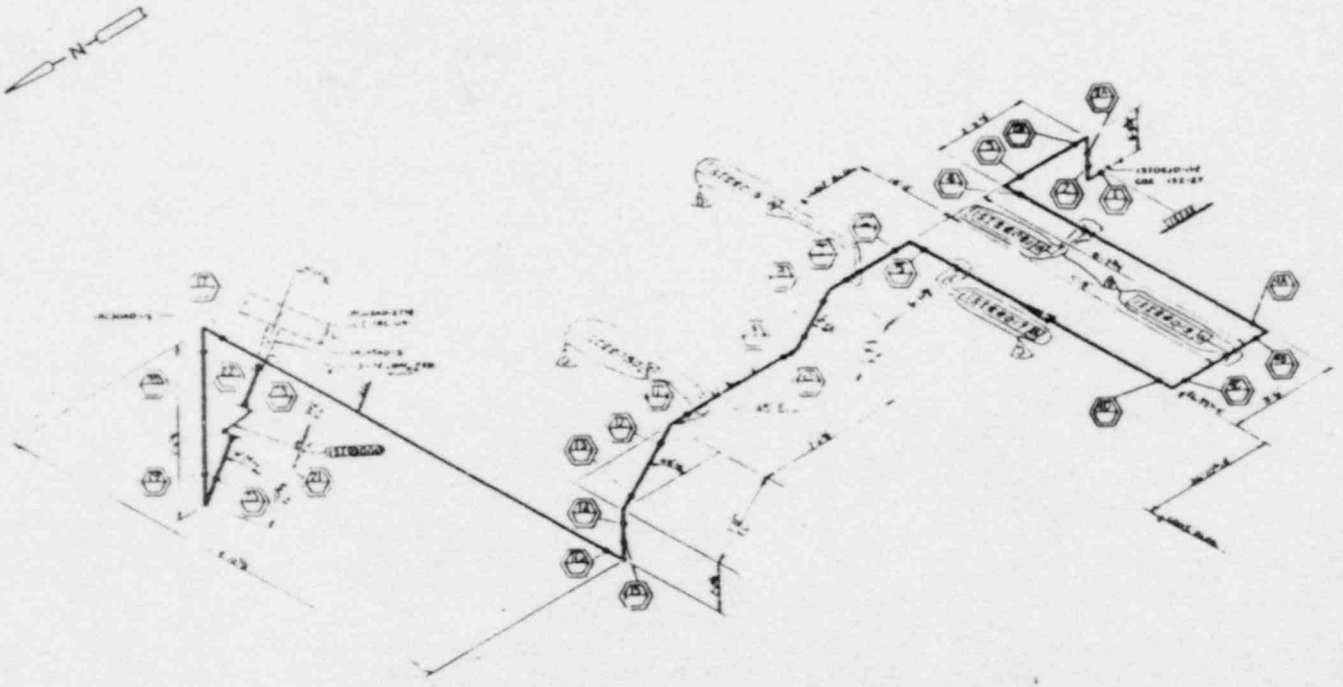
PHILLIPS GETSCHOW CO

SAFETY INJECTION SYSTEM
ISI-14

ISI-15



1SI-16



88 MAY 16 PM 12:43

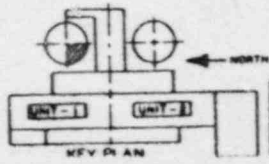
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE

1SI08J0-1½
1RC30AD-1½

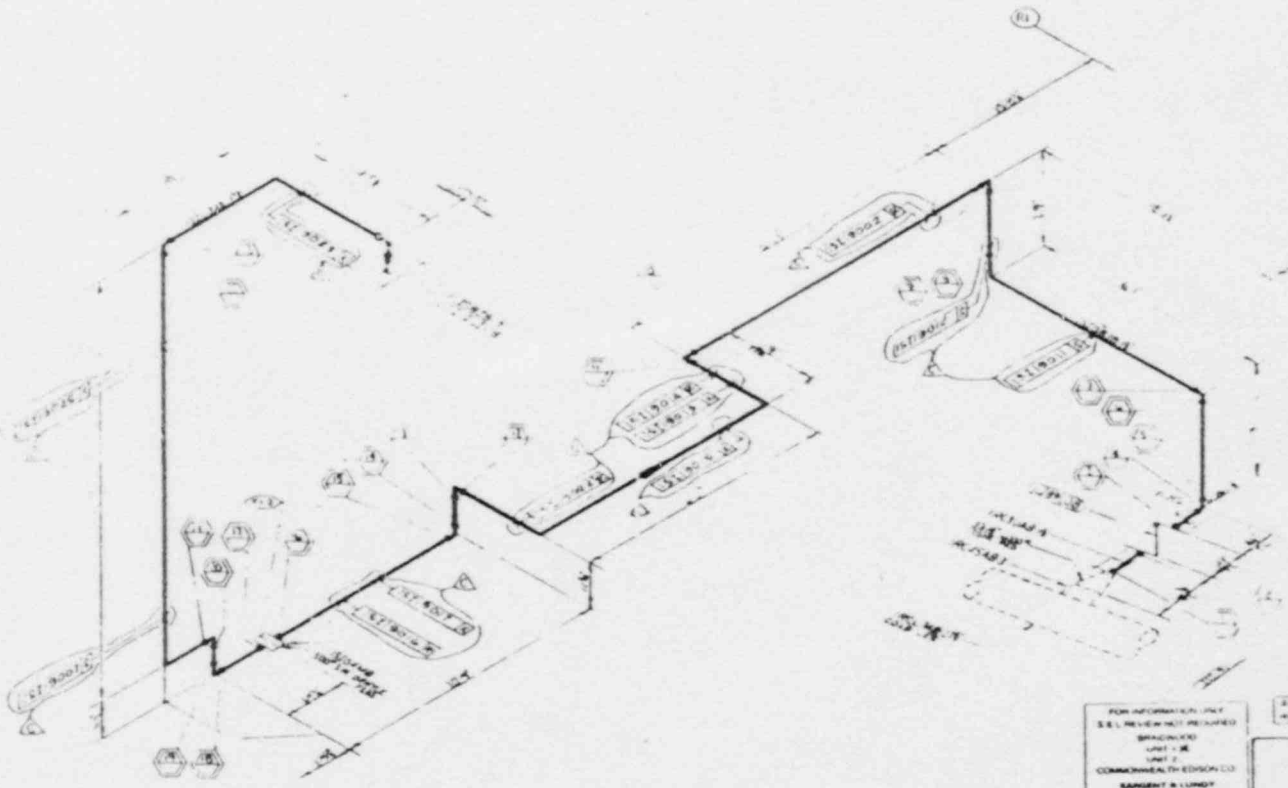
INSIDE CONTAINMENT LOOP 4

SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SHOP/FIELD WELD NO.
SHOP/FIELD WELD NO.



PHILLIPS GETSCHOW CO.

ISI-17



SUPPORT NUMBER
FLANGE BOLT UP (N)
VALVE NUMBER
W WELD NO. F FIELD WELD NO.

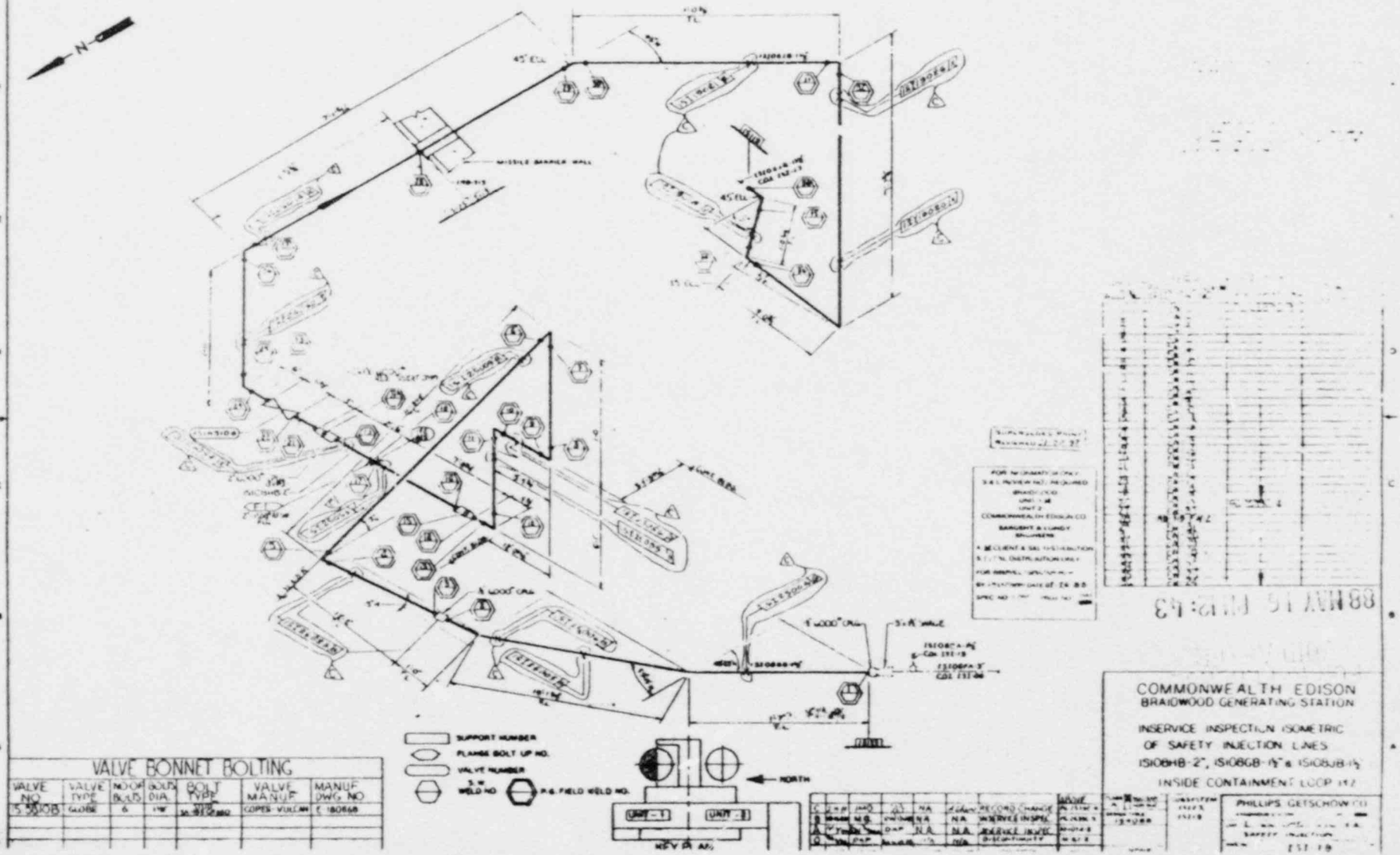
KEY PLAN

88 MAY 16 PM 12:43

COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE
1SI08B1E
N.I.D.E. CONTAINMENT

PHILLIPS GETSCHOW CO.

1SI-18



VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NOOF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF DWG NO.
1SI8808B	GLOBE	6	1"		COPES VULCAN	E 180668

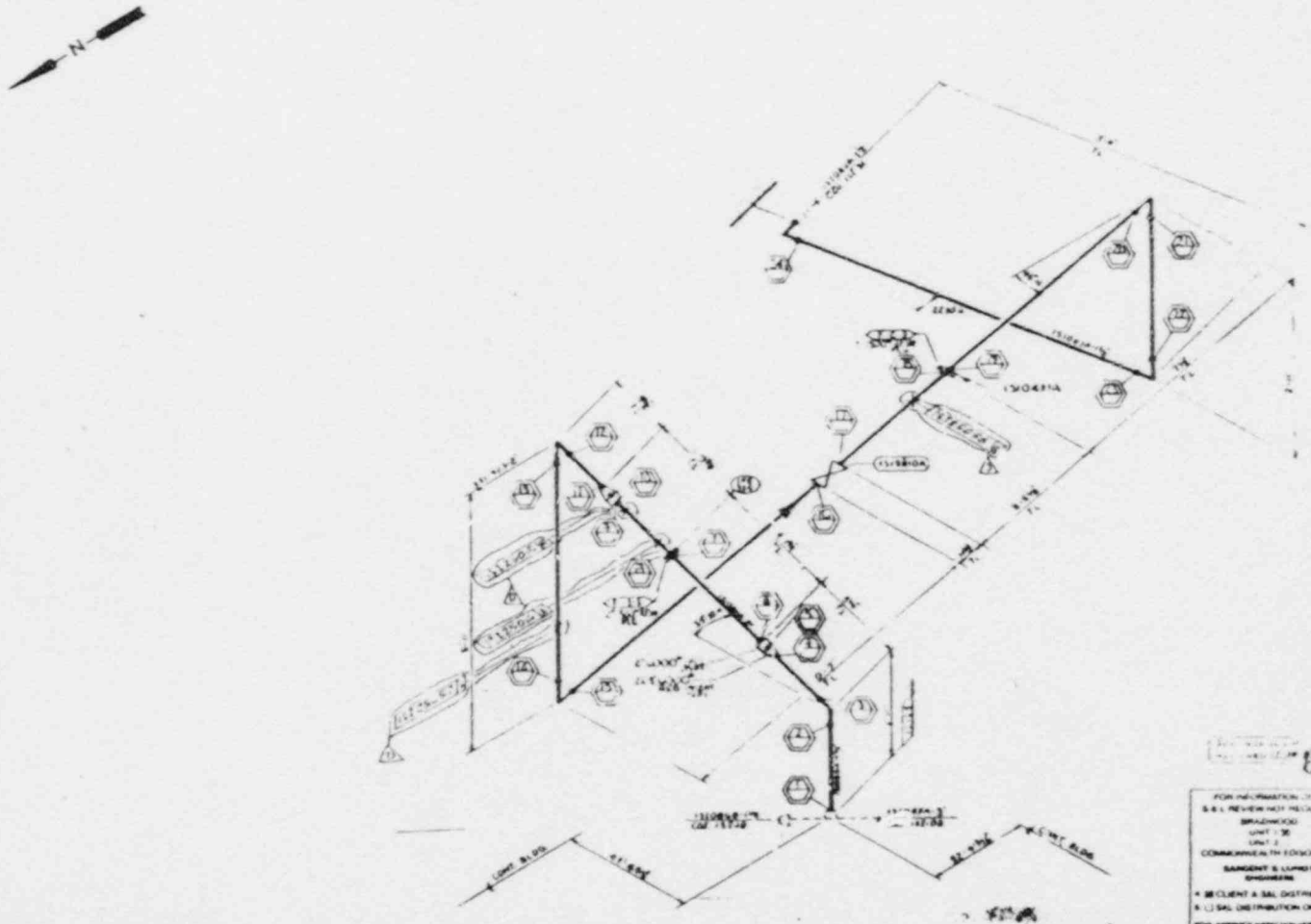
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
1SI08HB-2", 1SI08GB-½" & 1SI08JB-½"
INSIDE CONTAINMENT LOOP #2

PHILLIPS GETSCHOW CO

88MAY 16 PM 2:43

ISI-9



VALVE BONNET BOLTING

VALVE NO	VALVE TYPE	NO. OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF. CODE NO.
1SI8809A	GLOBE	6	1"	[illegible]	COPES-VULCAN	E-1808-8

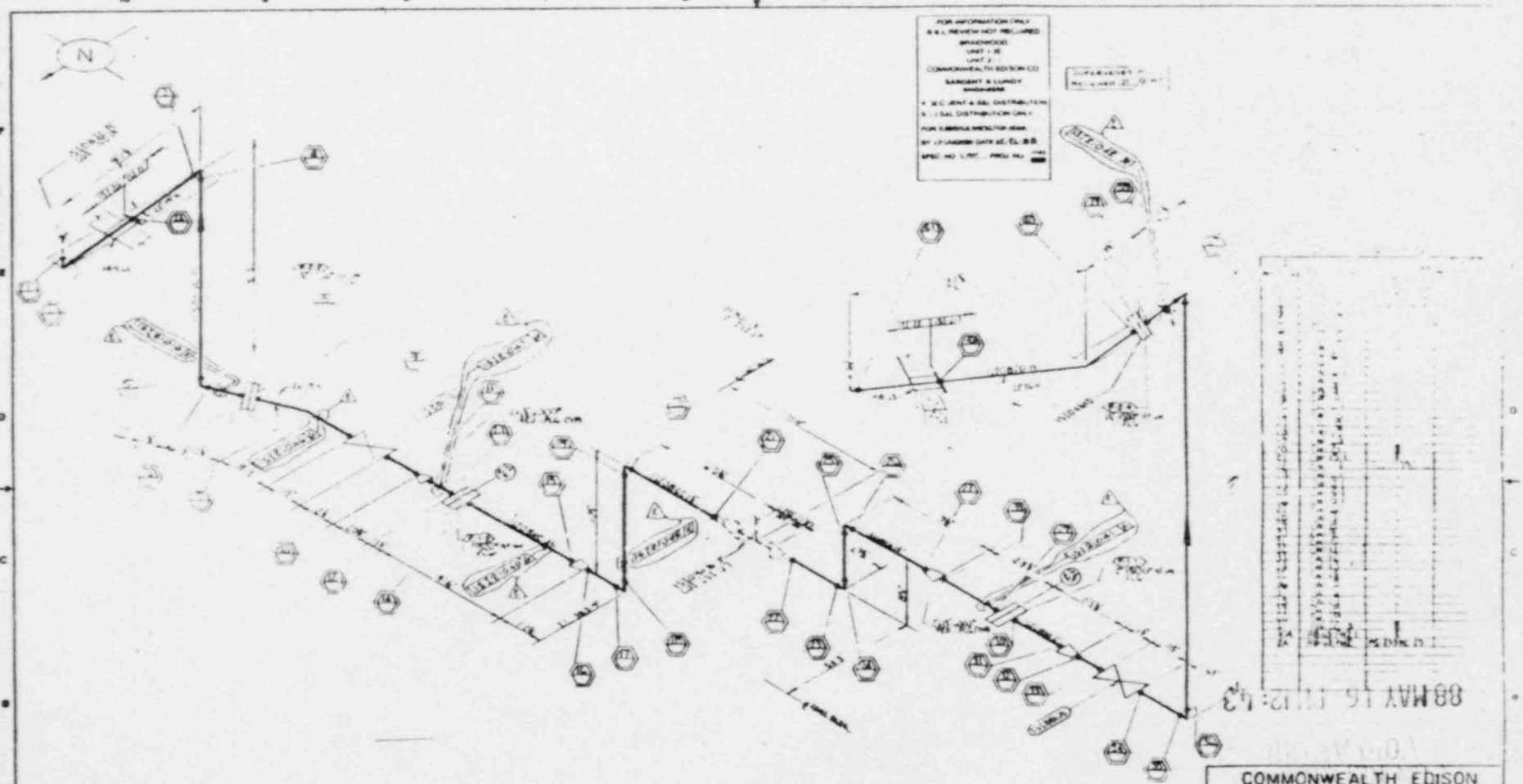
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION

INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
1SI08GA-1½", 1SI08HA-2" & 1SI08JA-1½"
INSIDE CONTAINMENT LOOP 1

PHILLIPS GETSCHOW CO.

1SI-9

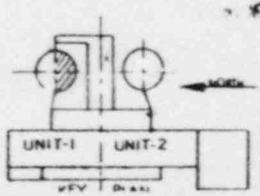
ISI-20



SUPPORT NUMBER
FLANGE BOLT UP NO.
VALVE NUMBER
SHOP WELD NO.
FIELD WELD NO.

VALVE BONNET BOLTING

VALVE NO.	VALVE TYPE	NO OF BOLTS	BOLT DIA.	BOLT TYPE	VALVE MANUF.	MANUF DWG. NO.
1856X	GLOBE	16	1"			E 18081
1856D	GLOBE	16	1"			E 18081

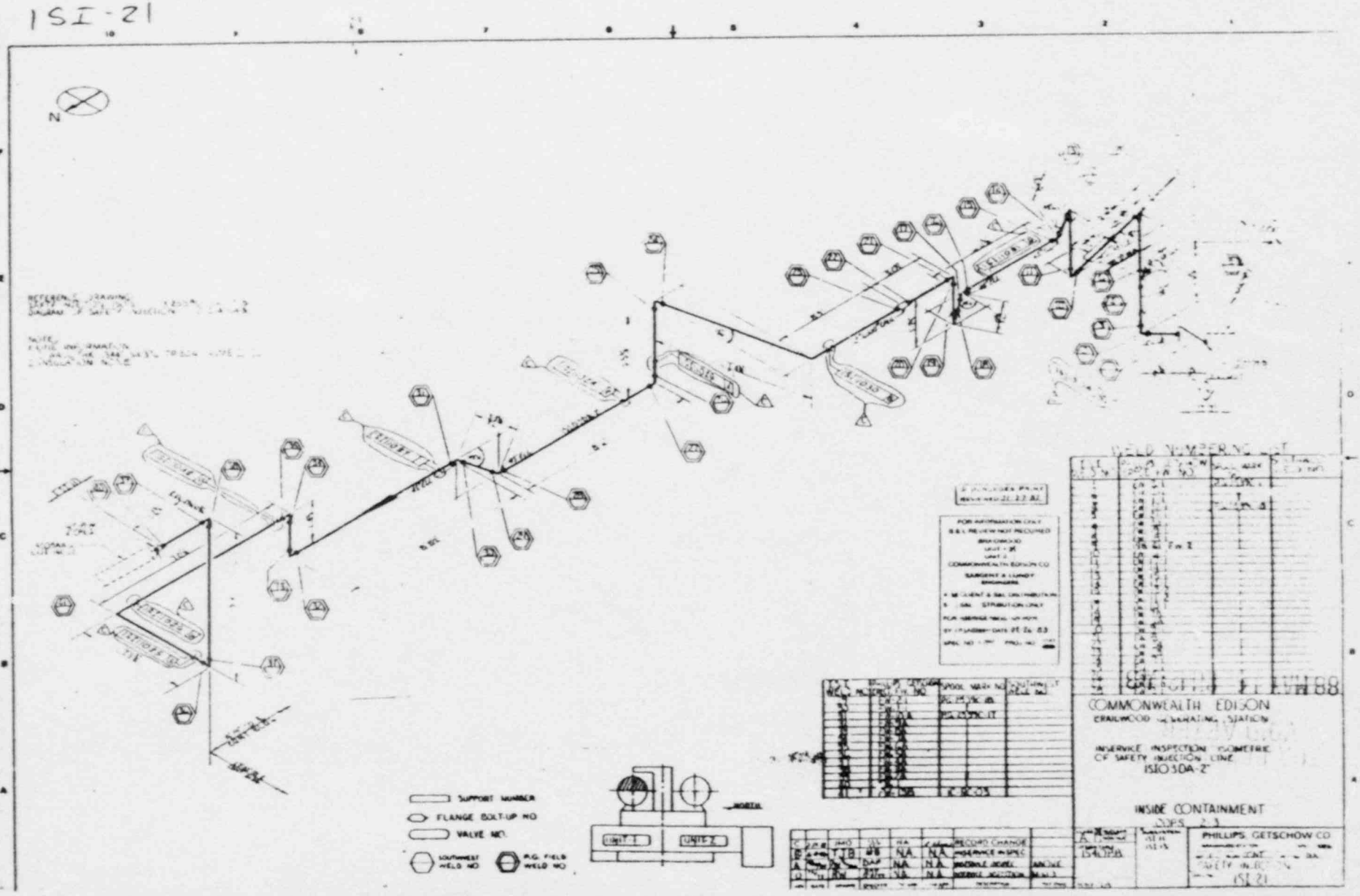


COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION

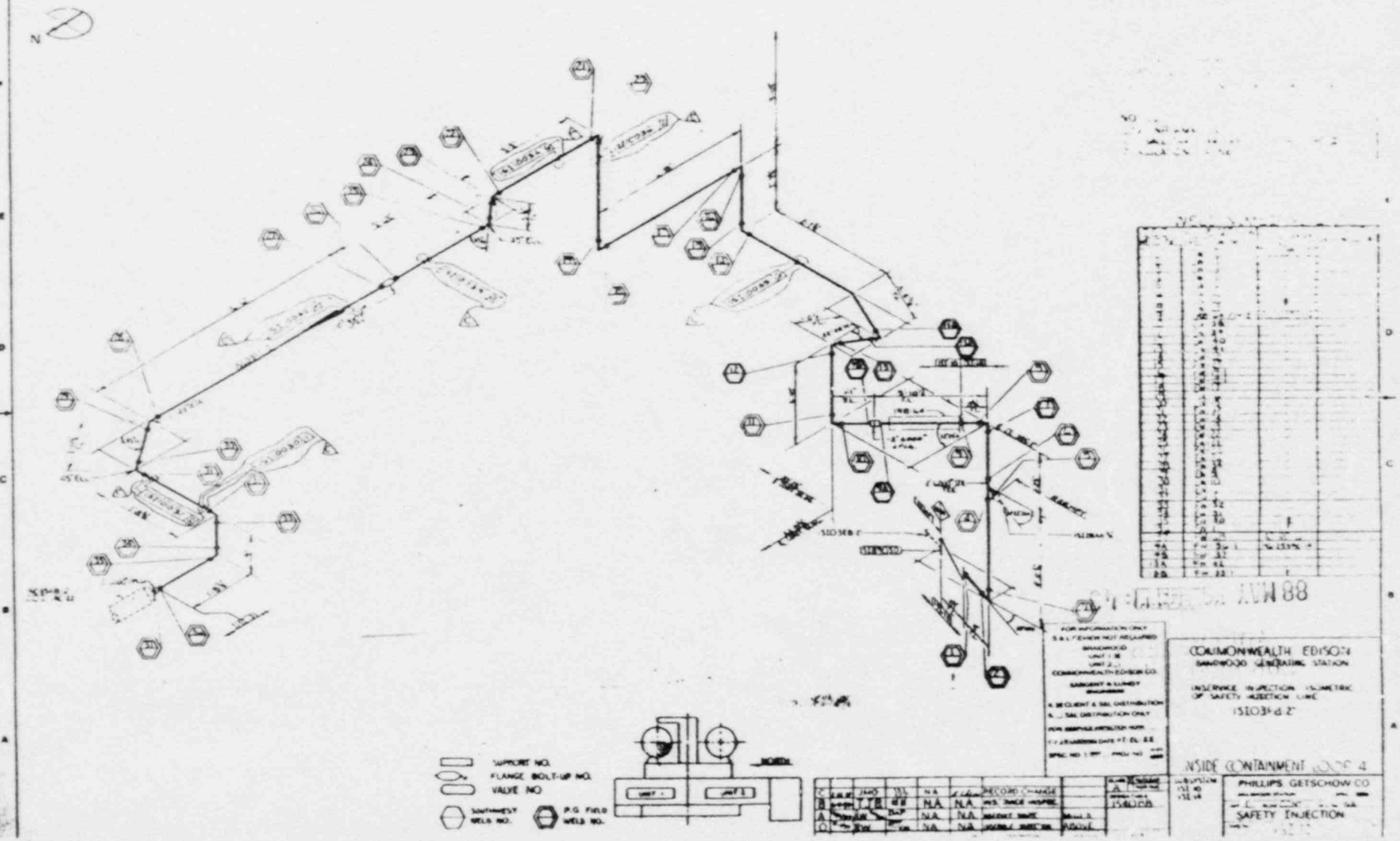
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE
[illegible]
IN ICE CONTAINMENT LOOP [illegible]

PHILLIPS GETSCHOW CO.

ISI-21


N
SUPPORT NUMBER
FLANGE BOLT-UP NO
VALVE NO.
SHOP FIELD WELD NO
FIELD WELD NO
UNIT 1
UNIT 2
NORTH
COMMONWEALTH EDISON
CRAWFORD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE
1SI03DA-2
INSIDE CONTAINMENT
PHILLIPS GETSCHOW CO
ISI-21

ISI-82



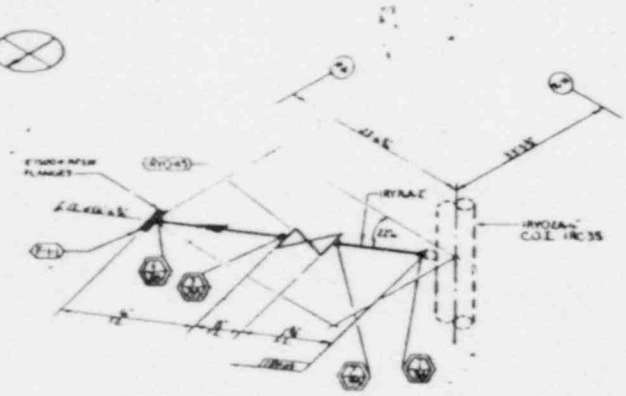
COMMONWEALTH EDISON
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC OF SAFETY INJECTION LINE
1SI03P4-2

INSIDE CONTAINMENT

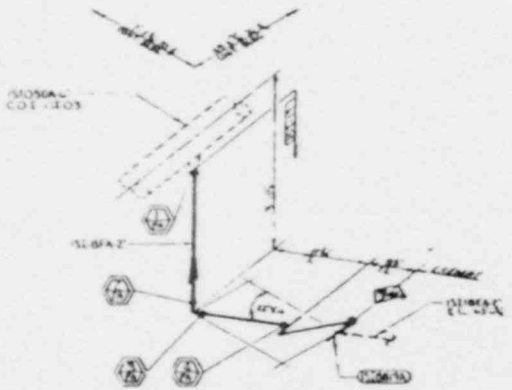
PHILLIPS GETSCHOW CO

SAFETY INJECTION

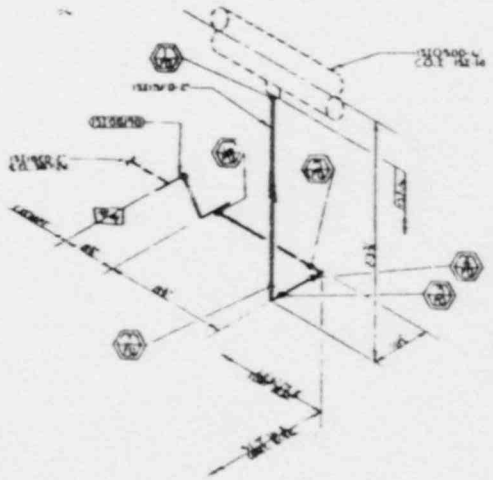
1SI-23



1RY76A-2"



1SI18FA-2"



1SI18FD-2"

1SI18FD-2"
WELD NUMBERING LIST

ISI WELD NO.	PIPING ISOMETRIC DWG NO.	FABRICATION SHOP MARK NO.	FIELD WORK SHOP WELD NO.

1SI18FA-2"

ISI WELD NO.	PIPING ISOMETRIC DWG NO.	FABRICATION SHOP MARK NO.	FIELD WORK SHOP WELD NO.

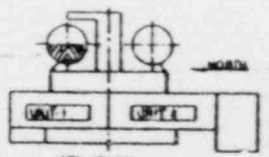
1RY76A-2"

ISI WELD NO.	PIPING ISOMETRIC DWG NO.	FABRICATION SHOP MARK NO.	FIELD WORK SHOP WELD NO.

REFERENCE DRAWING
SAFETY INJECTION P&ID
REACTOR COOLANT P&ID
ISOMETRIC OF SAFETY INJECTION
ISOMETRIC OF REACTOR COOLANT

LINE INFORMATION
2" WALL THICKNESS
2" INSULATION (1RY76A-2" TYPE 3)
1SI18FD-2" NONE
1SI18FA-2" NONE

SUPPORT NO.
FLANGE BOLT UP NO.
VALVE NO.
SHOP WELD NO.
FIELD WELD NO.

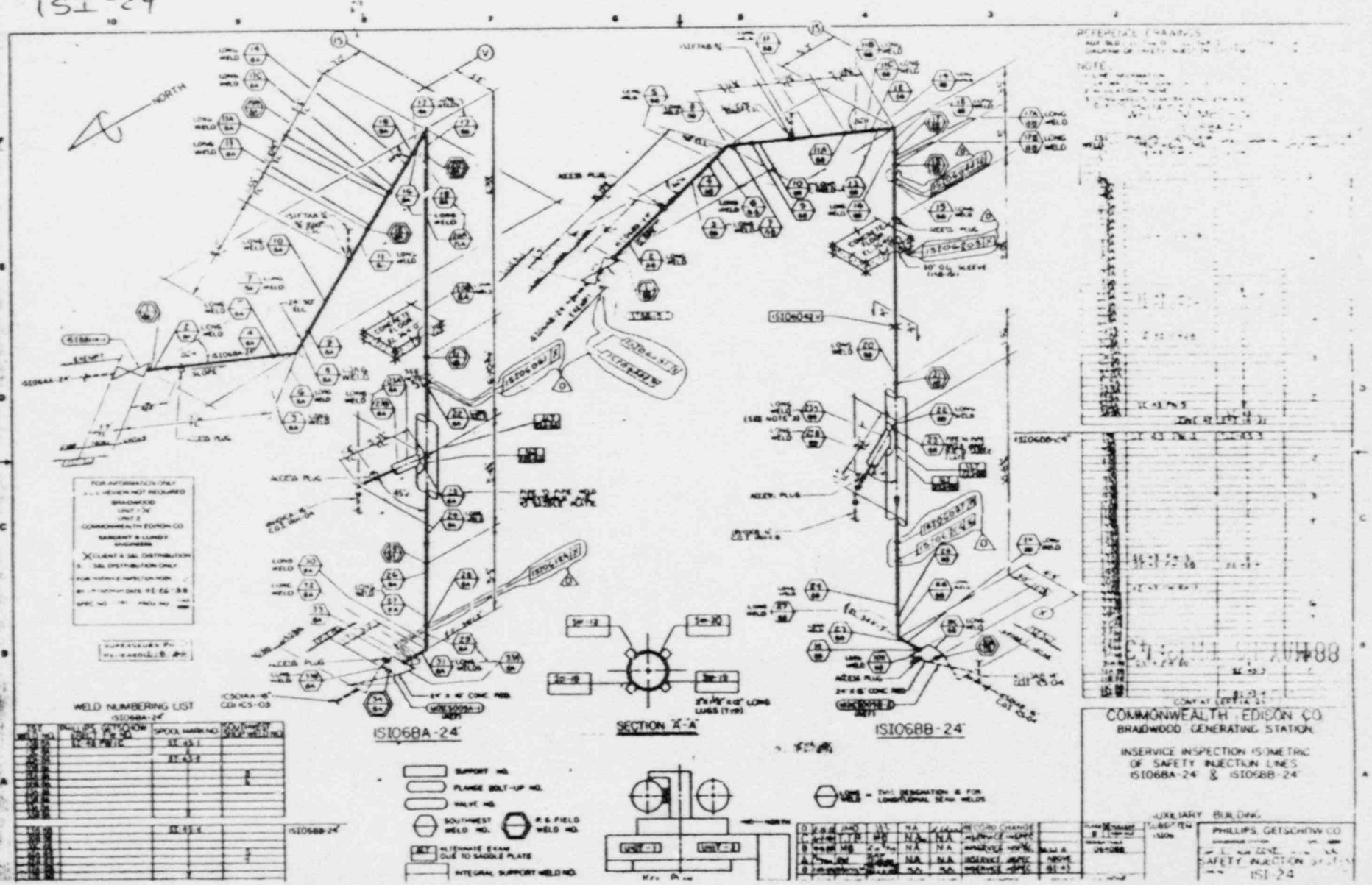


KEY PLAN

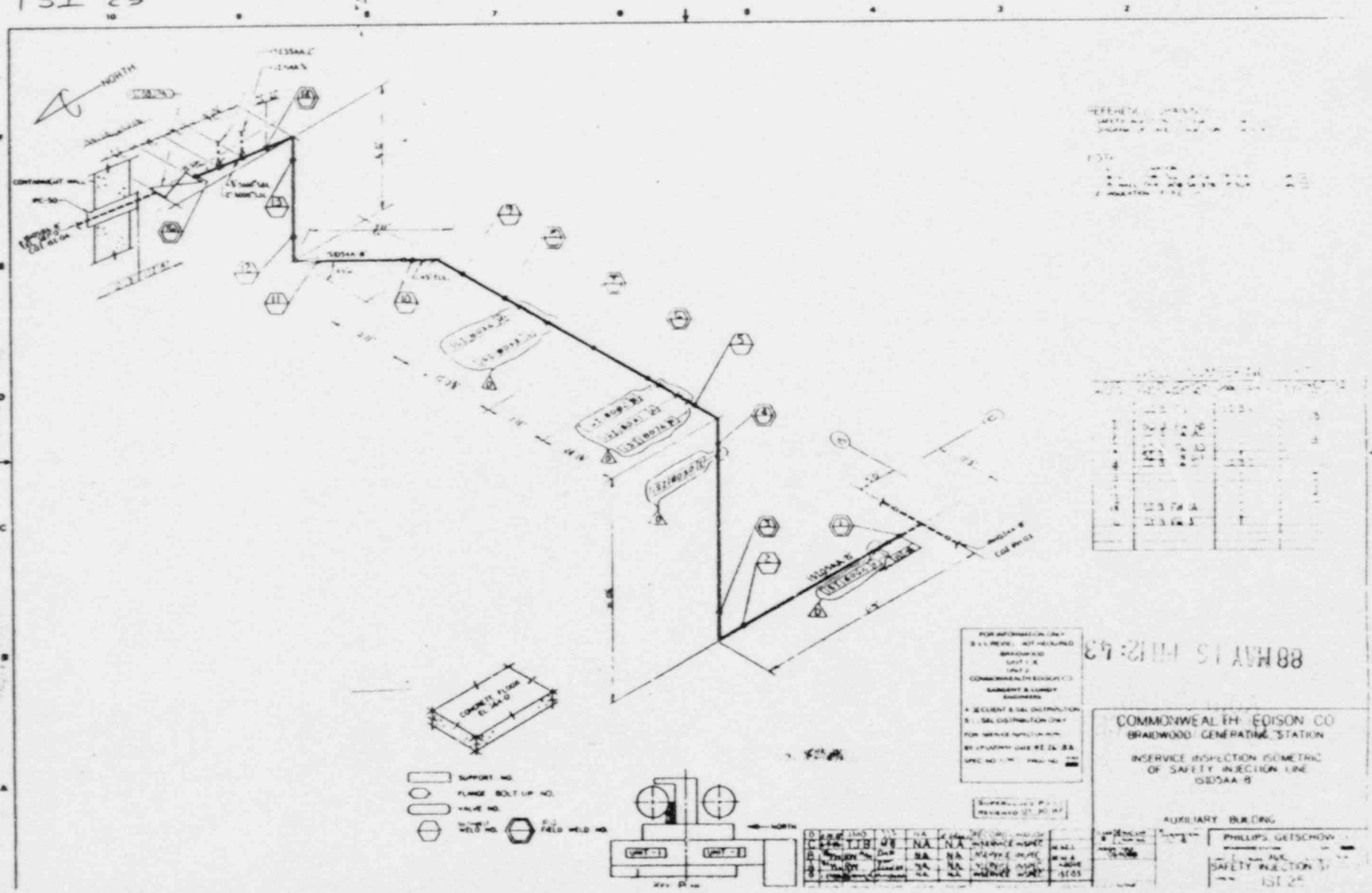
COMMONWEALTH EDISON
DRESDEN GENERATING STATION
INSERVICE INSPECTION ISO
OF SAFETY INJECTION LINES 1SI18FA-2"
1SI18FD-2" AND REACTOR COOLANT LINE
1RY76A-2" INSIDE CONTAINMENT
LOOPS 1 & 4

PHILLIPS, GLITSCHOW CO.

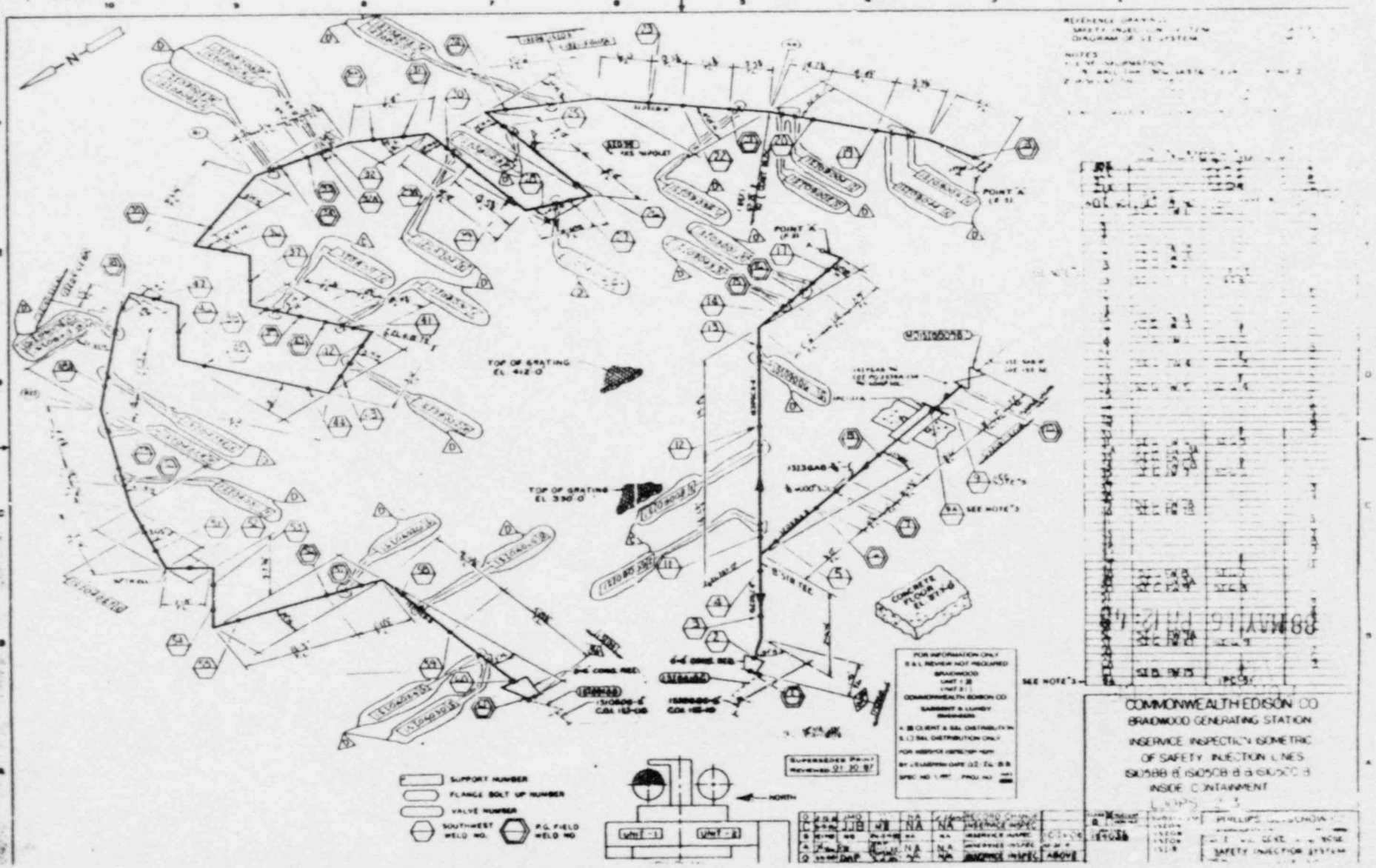
ISI-24


NORTH
ISI068A-24"
ISI068B-24"
SECTION X-X
WELD NUMBERING LIST
ISI068A-24"
ISI068B-24"
SUPPORT NO.
FLANGE BOLT-UP NO.
VALVE NO.
SOUTHWEST WELD NO.
P. & FIELD WELD NO.
INTEGRAL SUPPORT WELD NO.
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC OF SAFETY INJECTION LINES ISI068A-24" & ISI068B-24"
AUXILIARY BUILDING
PHILLIPS GETSCHOW CO
SAFETY INJECTION
ISI-24

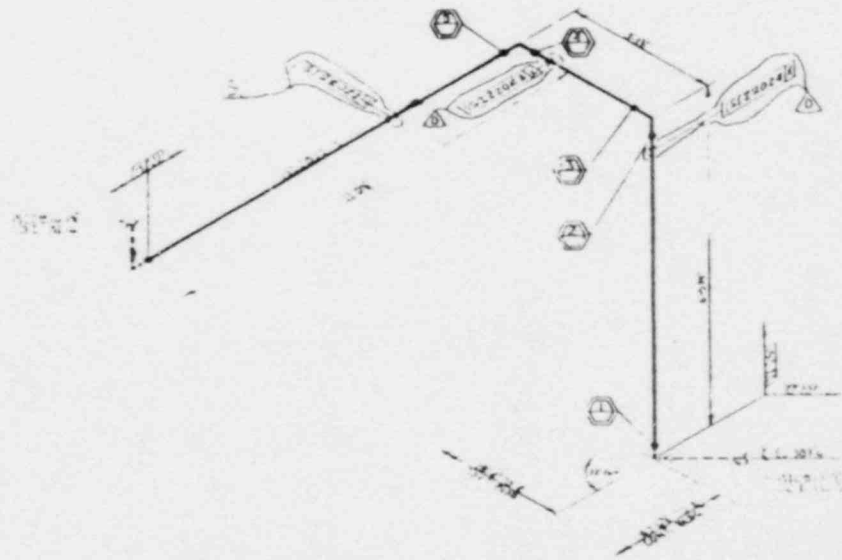
1SI-25


NORTH
SUPPORT NO.
FLANGE BOLT UP NO.
VALVE NO.
FIELD WELD NO.
SHOP WELD NO.
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE
1SI15AA-B
AUXILIARY BUILDING
PHILLIPS GETSCHOW
SAFETY INJECTION
1SI 25

1SI-26


N
TOP OF GRATING EL 412'-0"
TOP OF GRATING EL 390'-0"
SEE NOTE 3
SUPPORT NUMBER
FLANGE BOLT UP NUMBER
VALVE NUMBER
SOUTHWEST WELD NO.
P.G. FIELD WELD NO.
NORTH
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
1SI05BB-B, 1SI05CB-B & 1SI05CC-B
INSIDE CONTAINMENT
SAFETY INJECTION SYSTEM

ISI-27



SUPPORT NO.
FLANGE BOLT-UP NO.
VALVE NO.
SHOP FIELD WELD NO.
P.G. FIELD WELD NO.

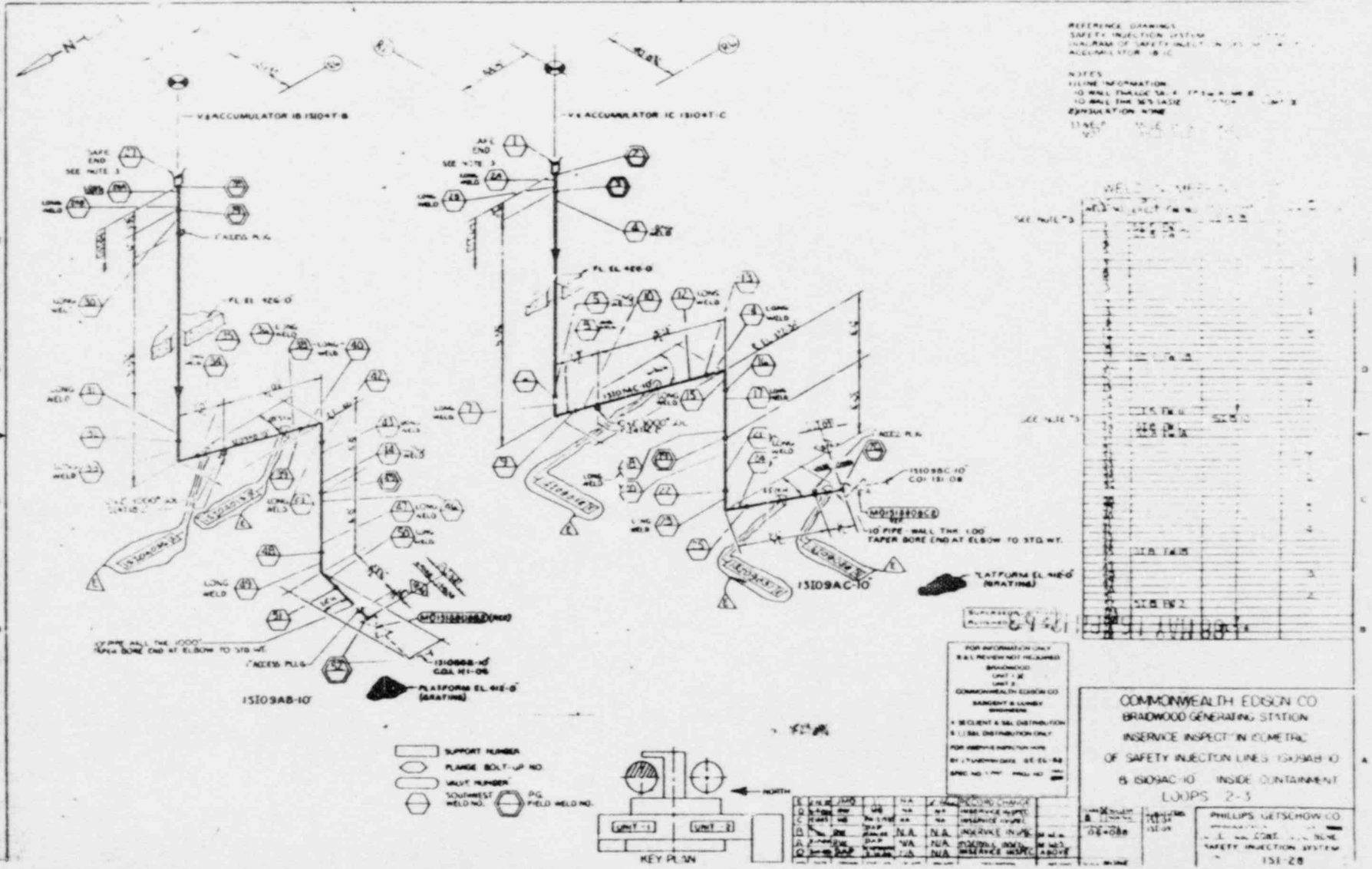
KEY PLAN

COMMONWEALTH EDISON
DRAIN WOOD GENERATING STATION
INSERVICE INSPECTION SYSTEM
ISOMETRIC
INSIDE CONTAINMENT LOOP 4

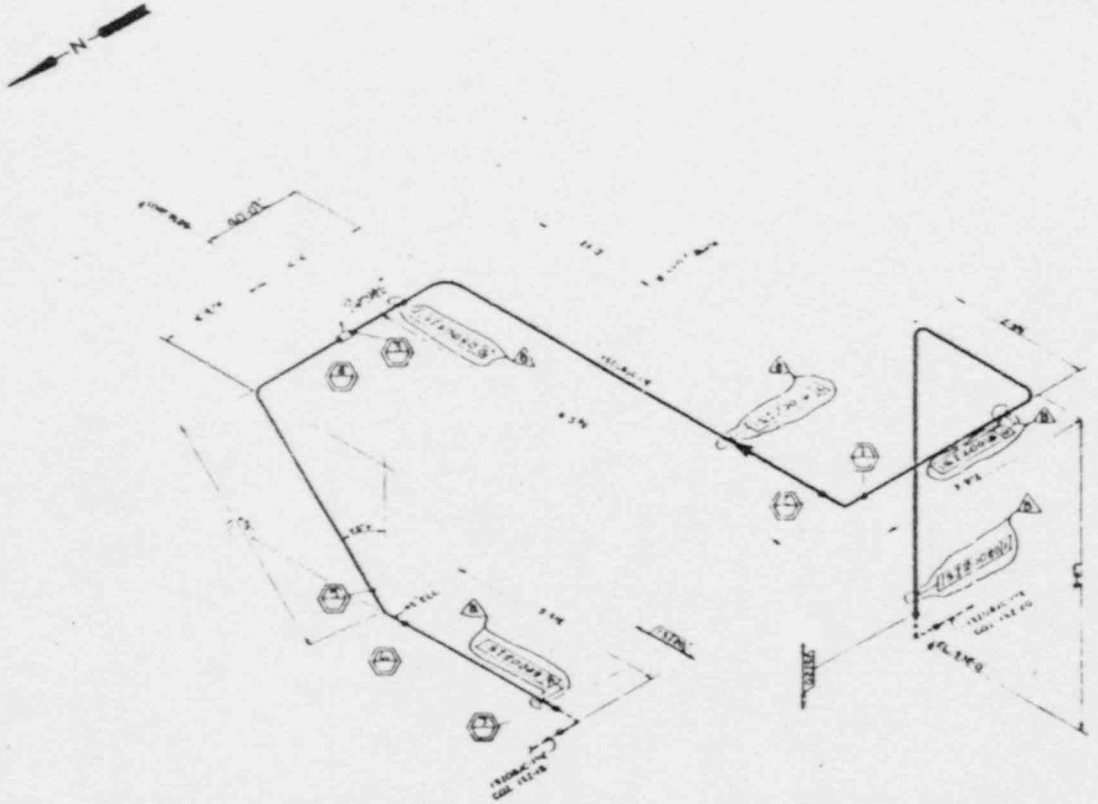
PHILLIPS GETSCHOW CO.

88 MAY 15 PM 12:43

1SI-28


V8 ACCUMULATOR 1B 1SI04T-B
V8 ACCUMULATOR 1C 1SI04T-C
SAFE END SEE NOTE 3
ACCESS H.H.
EL. 426'-0"
1SI09AB-10"
1SI09AC-10"
1SI09BC-10" CO: 1SI-08
10" PIPE WALL THK 1.000" TAPER BORE END AT ELBOW TO STD WT.
PLATFORM EL 416'-0" (GRATING)
SUPPORT NUMBER
FLANGE BOLT-UP NO.
VALVE NUMBER
SOUTHWEST WELD NO.
P.G. FIELD WELD NO.
NORTH
UNIT-1
UNIT-2
KEY PLAN
REFERENCE DRAWINGS
NOTES
ISOMETRIC
FOR INFORMATION ONLY
R & L REVIEW NOT REQUIRED
COMMONWEALTH EDISON CO
SARGENT & LUNDY ENGINEERS
X SECURITY & SSL DISTRIBUTION
X LOCAL DISTRIBUTION ONLY
COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES 1SI09AB-10
& 1SI09AC-10 INSIDE CONTAINMENT
LOOPS 2-3
PHILLIPS GETSCHOW CO
SAFETY INJECTION SYSTEM
1SI-28

ISI-29



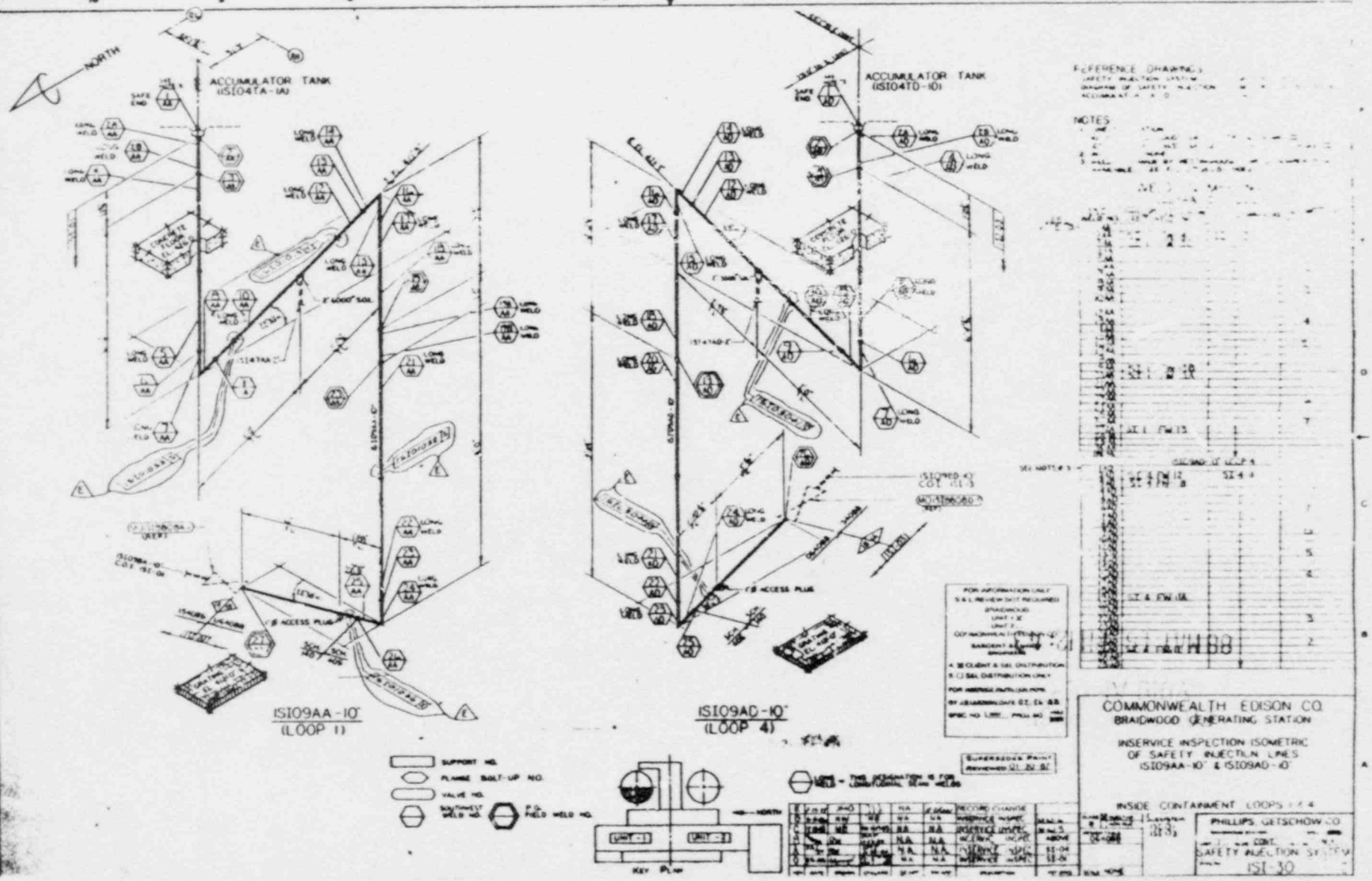
COMMONWEALTH EDISON
BRAIDWOOD STATION

INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE
ISIOBJC 1%
INSIDE CONTAINMENT

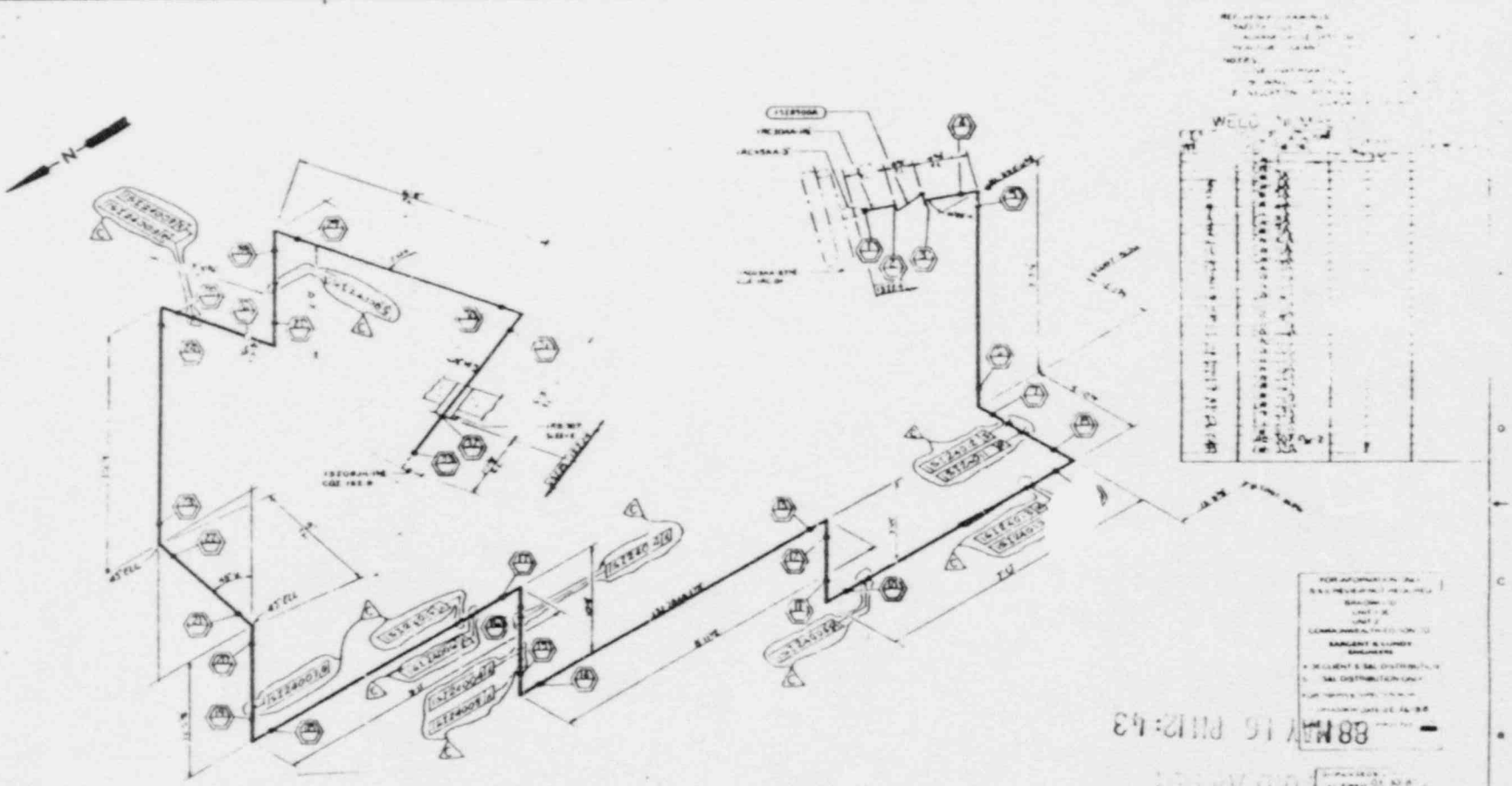
PHILLIPS GETSCHOW CO.

SUPPORT NUMBER
FLANGE BOLT UP NO.
VALVE NUMBER
SHOP FIELD WELD NO.

ISI-30


NORTH
ACCUMULATOR TANK
(ISI04TA-1A)
ACCUMULATOR TANK
(ISI04TD-1D)
REFERENCE DRAWINGS
NOTES
ISI09AA-10"
(LOOP 1)
ISI09AD-10"
(LOOP 4)
SUPPORT NO.
FLANGE BOLT-UP NO.
VALVE NO.
SHOP/FIELD WELD NO.
FIELD WELD NO.
KEY PLAN
UNIT-1
UNIT-2
COMMONWEALTH EDISON CO.
BRAIDWOOD GENERATING STATION
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINES
ISI09AA-10" & ISI09AD-10"
INSIDE CONTAINMENT LOOPS 1 & 4
PHILLIPS GETSCHOW CO.
SAFETY INJECTION SYSTEM
ISI-30

ISI-31

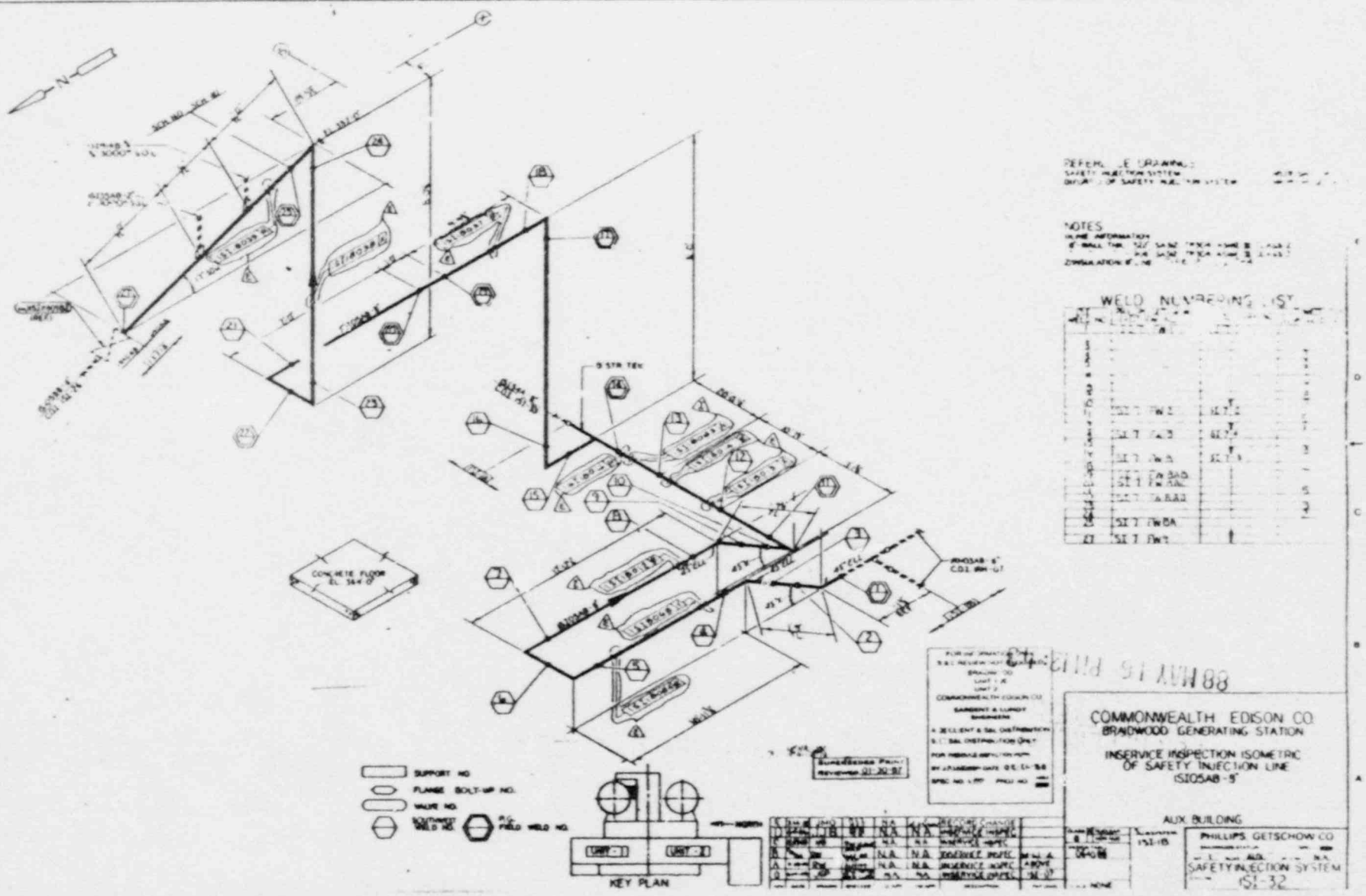


COMMONWEALTH EDISON
BRAIDWOOD STATION

INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE
(SIOBJA1) (RC30AA1)
INSIDE CONTAINMENT (LOOP 1)

PHILLIPS GETSCHOW CO.

ISI-32



REFERENCE DRAWINGS
SAFETY INJECTION SYSTEM
DIAGRAM OF SAFETY INJECTION SYSTEM

NOTES
VOLUME INFORMATION
ISOMETRIC ORIENTATION

WELD NUMBERING LIST

1	SI 1 FW 1	SI 1
2	SI 1 FW 2	SI 1
3	SI 1 FW 3	SI 1
4	SI 1 FW BA	SI 1
5	SI 1 FW BAB	
6	SI 1 FW BAC	
7	SI 1 FW BAD	
8	SI 1 FW BA	
9	SI 1 FW 1	

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

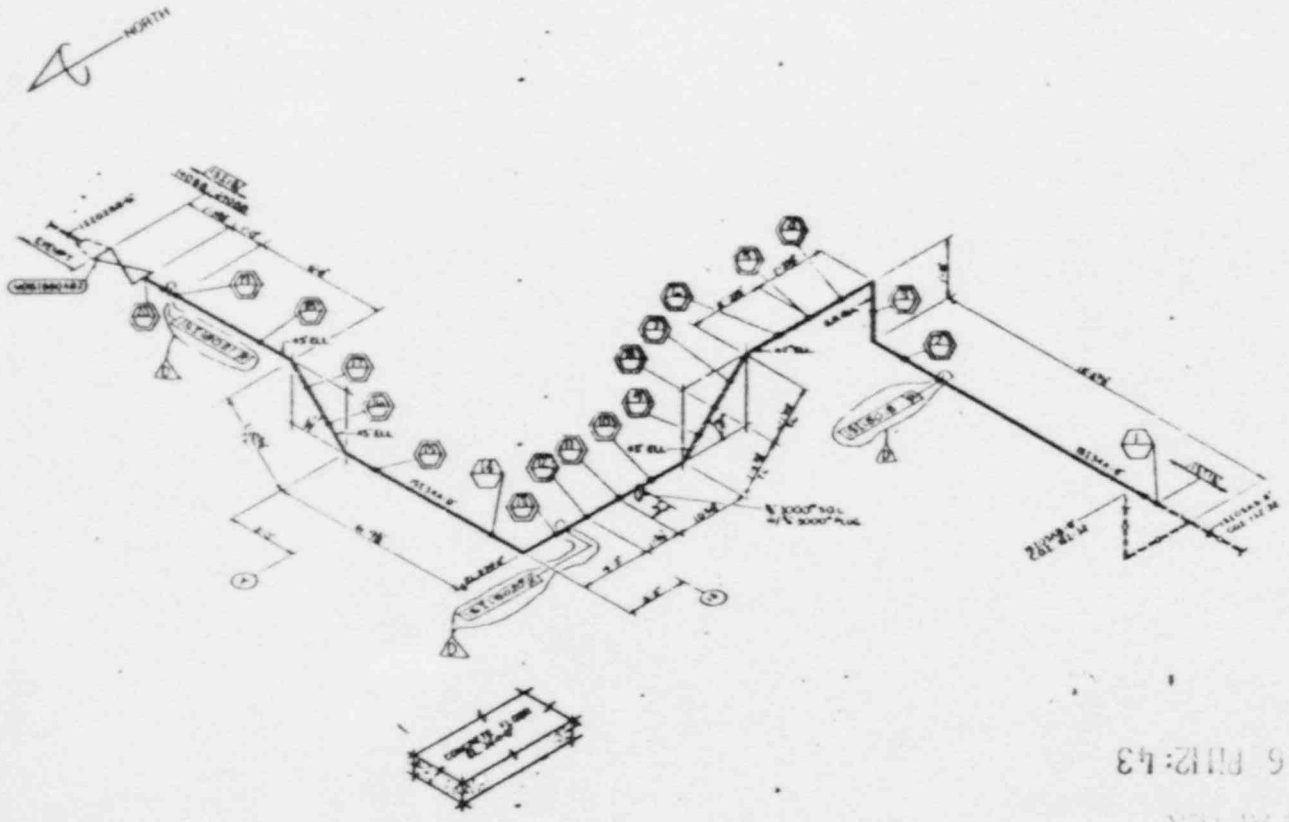
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE
1SI05AB-9"

AUX BUILDING

PHILLIPS GETSCHOW CO

SAFETY INJECTION SYSTEM
ISI-32

ISI-33



REFERENCE DRAWINGS

NOTE

WELD NUMBERING LIST

COMMONWEALTH EDISON CO
BRAIDWOOD OPERATING STATION

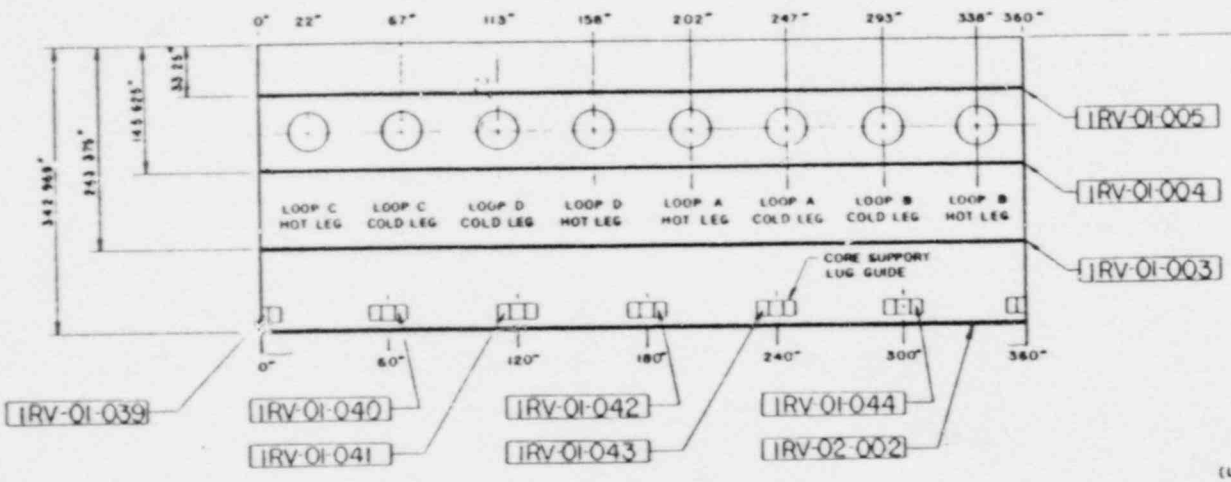
INSERVICE INSPECTION ISOMETRIC
OF SAFETY INJECTION LINE
1SI34A-B

AUXILIARY BUILDING

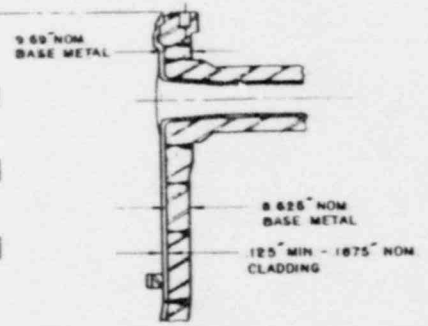
PHILLIPS, GETSCHOW CO

SAFETY INJECTION SYSTEM
IST-33

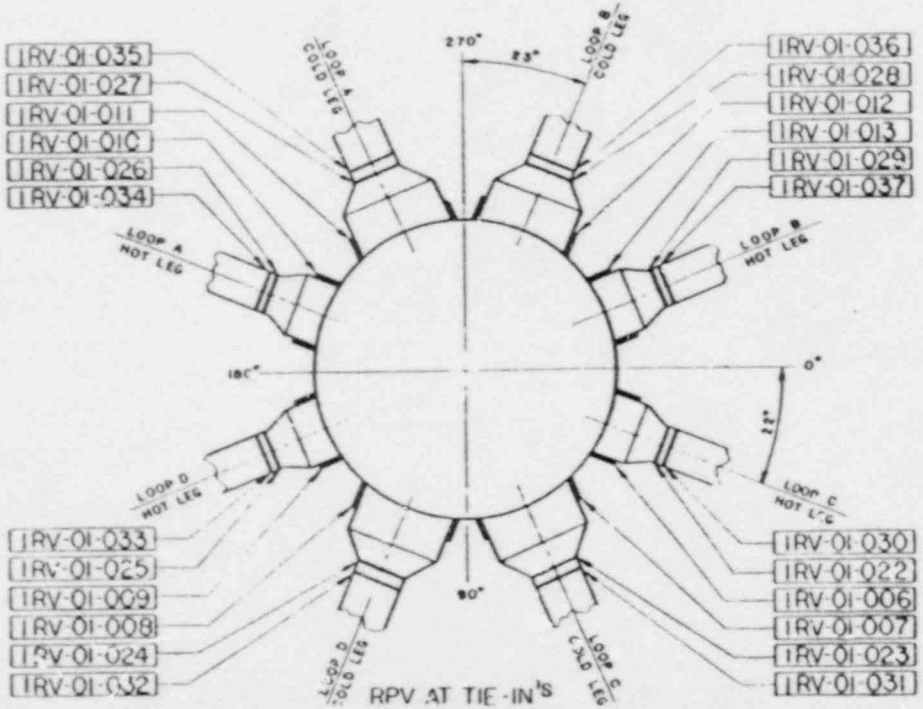
IRV-01



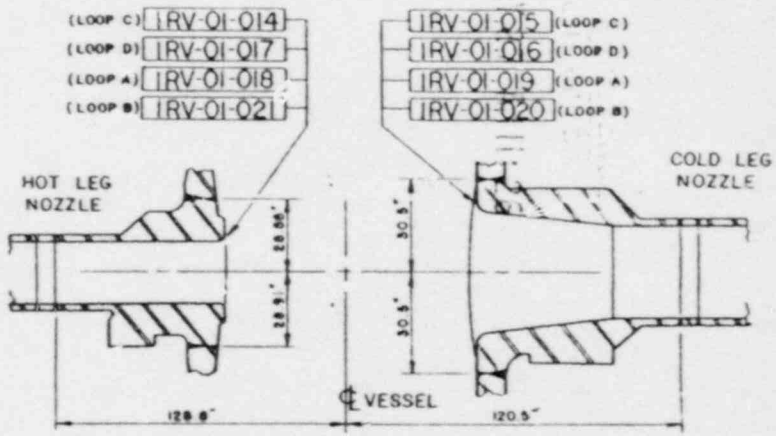
RPV AT TIE-IN'S
(ROLLED FLAT)



TYP NOZZLE SECTION



RPV AT TIE-IN'S



TYP DETAIL OF
HOT LEG/COLD LEG NOZZLES

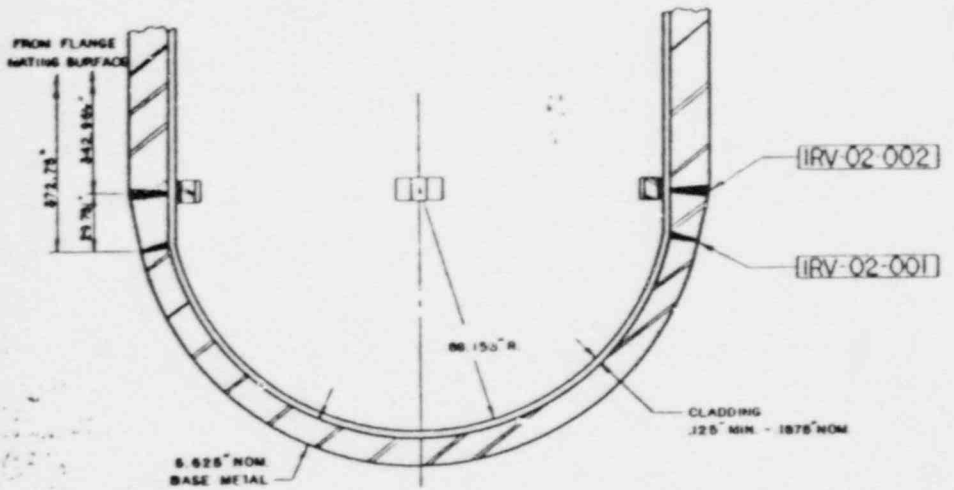
INFORMATION ONLY

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

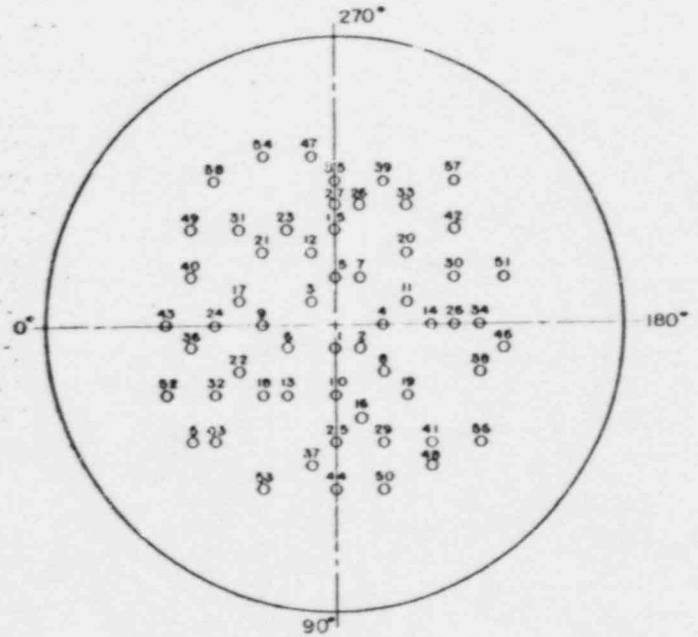
INSERVICE INSPECTION DRAWING
OF REACTOR PRESSURE VESSEL
HOT LEG/COLD LEG NOZZLES
(ZONE 1)

E-7684
N/A
PHILLIPS GETSCHOW CO
CONT

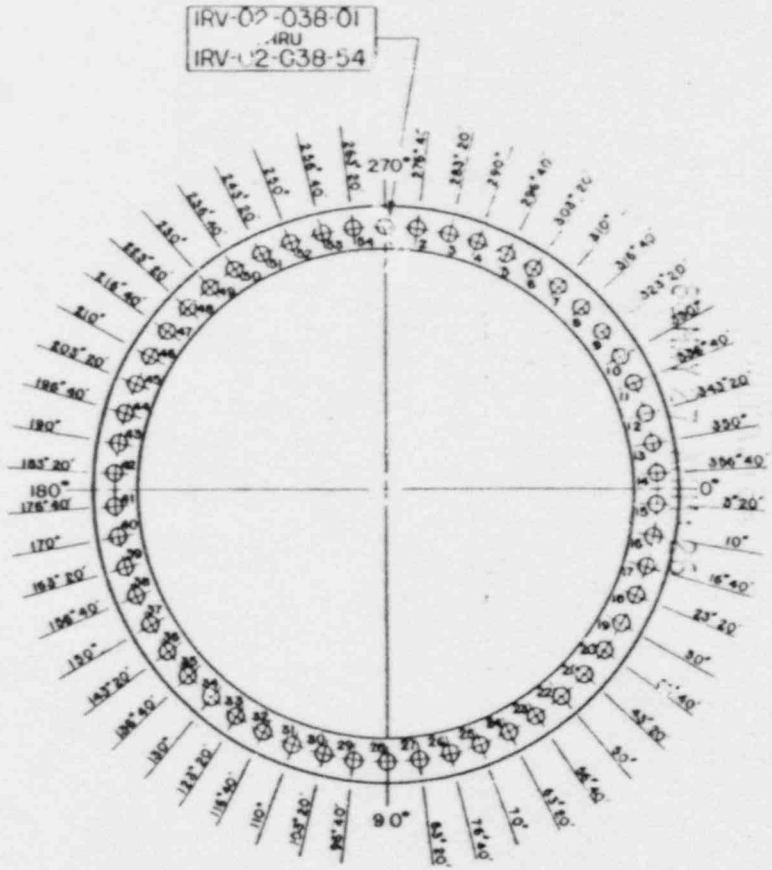
IRV-02



BOTTOM HEAD
(SECTION VIEW)



BOTTOM HEAD
(LHG DOWN)



RPV FLANGE
(PLAN VIEW)

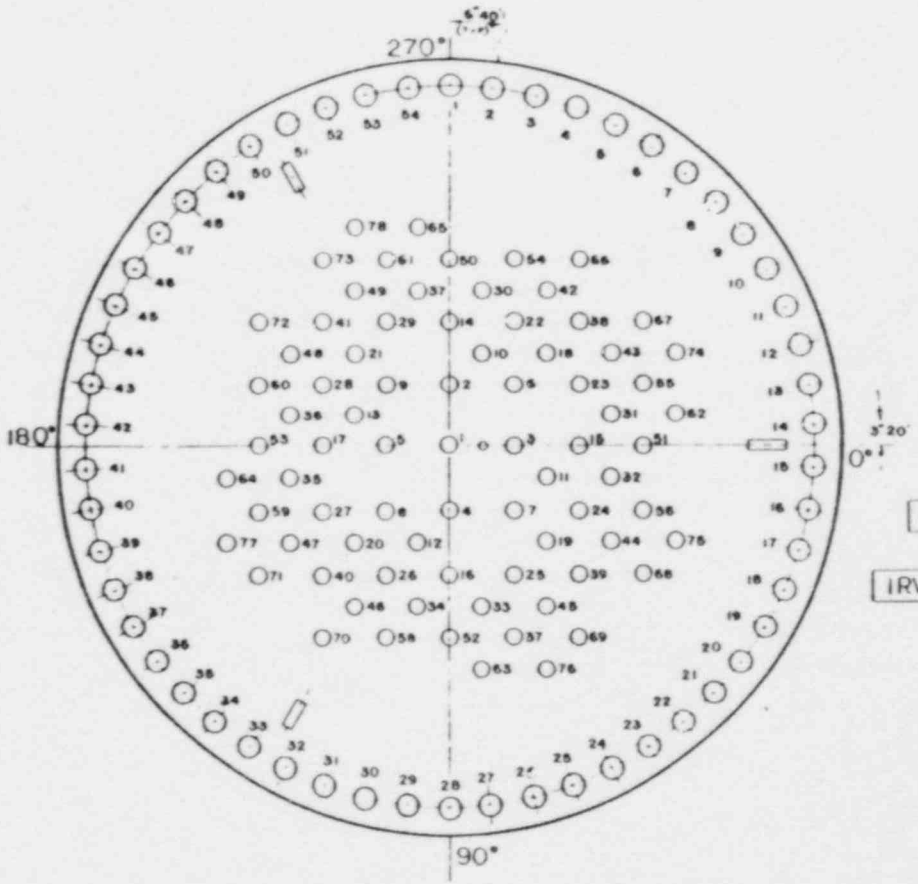
INFORMATION ONLY

COMMONWEALTH EDISON CO
BRAIDWOOD GENERATING STATION

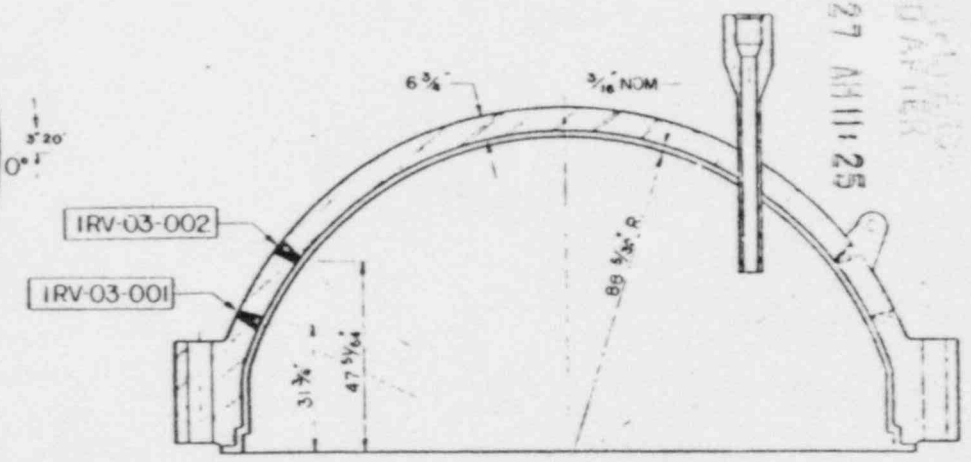
INSERVICE INSPECTION DRAWING
OF REACTOR PRESSURE VESSEL
BOTTOM CLOSURE HEAD
(ZONE 1)

| | | |

RV-03



CLOSURE HEAD
(PLAN VIEW)



CLOSURE HEAD
(SECTION VIEW)

INFORMATION ONLY

88 MAY 27 AM 11:25

2.6 RELIEF REQUESTS

RELIEF REQUEST 1NR1

1. SYSTEM: Main Steam

2. NUMBER OF ITEMS: 20

Line Number	Weld Number
1MS07AA-28"	1MS-04-25, 1MS-04-26, 1MS-04-27, 1MS-04-28, 1MS-04-29
1MS07AB-28"	*1MS-06-43, *1MS-06-44, *1MS-06-45, *1MS-06-46, *1MS-06-47
1MS07AC-28"	*1MS-08-25, *1MS-08-26, *1MS-08-27, *1MS-08-28, *1MS-08-29
1MS07AD-28"	*1MS-02-37, *1MS-02-38, *1MS-02-39, *1MS-02-40, *1MS-02-41

3. A.S.M.E. CODE CLASS: 2

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Examination Category C-F, Item C5.31 requires a surface examination of the area described in Figures IWC-2520-9 to 2520-13. The required area is 100% of each circumferential weld requiring examination.

5. BASIS FOR RELIEF: The above listed welds are inaccessible to surface examinations, due to the location of saddle plates over the pressure retaining welds.

6. ALTERNATE TEST METHOD: A surface examination, (magnetic particle) and visual examination (leak test) will be performed on the saddle plate fillet welds in lieu of the required surface examinations for those pressure retaining welds selected for examination.

7. JUSTIFICATION: Performing a surface and visual examination of the saddle plate fillet welds provides an acceptable level of structural integrity for system operation. Radiograph performed on the branch pipe circumferential welds verify its structural integrity at the time of construction. Therefore, and an adequate level of plant operational safety can be assured on these welds.

8. APPLICABLE TIME PERIOD: Relief will be required for the first 120 month inspection interval.

* These welds are not selected for inspection as required by code. However, they are examined within the scope of augmented high energy lines as described in Note 5.

RELIEF REQUEST 1NR-2

1. SYSTEM: Reactor Coolant

2. NUMBER OF ITEMS: 2

Line Number	Weld Number
1RC01AA-29"	1RC-01-4
1RC02AA-31"	1RC-01-17

3. A.S.M.E. CODE CLASS: 1

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Table IWB-2500-1, Examination Category B-J, Item B.9.11 requires surface and volumetric examination of the regions described in Figure 1WB-2500-8 for piping 4 in. nominal pipe size and greater. This examination includes essentially 100% of the weld length. In addition, Appendix III, Supplement 7, requires that ultrasonic examination sensitivity be established using I.D. notches with a depth of 10% wall thickness.

5. BASIS FOR RELIEF: The above listed welds are cast stainless elbows to either cast pumps or cast valves. The optimized ultrasonic technique used for the statically cast stainless steel welds will detect large flaws (25% or greater through the wall) therefore this sensitivity is less than that required by code.

   In addition, due to the unwieldly characteristics of the contoured wedge search units and variations in the machined surfaces, the welds listed above experience axial and circumferential scanning limitations.

6. ALTERNATE TEST METHOD: None.

7. JUSTIFICATION: The structural integrity of these welds shall be assured by:

   a. Performing a best effort ultrasonic exam, based on state of the art techniques, of the cast stainless welds.

   b. Performing surface examinations of the required region.

   c. Performing a system leakage test each refueling outage and a hydrostatic test each interval.

8. APPLICABLE TIME PERIOD: Relief will be required for the first 120 month inspection interval.

RELIEF REQUEST 1NR-3

1. SYSTEM: Reactor Coolant, Pressurizer, Residual Heat Removal, and Safety Injection.

2. NUMBER OF ITEMS: 9 (1 per group). *Those selected for examination.

Reactor Coolant	*1RC8001-A	1RC8002-A	*1RC8003-A
	1RC8001-B	1RC8002-B	1RC8003-B
	1RC8001-C	1RC8002-C	1RC8003-C
	1RC8001-D	1RC8002-D	1RC8003-D
Pressurizer	*1RY8010-A		
	1RY8010-B		
	1RY8010-C		
Residual Heat Removal	*1RH8701-A		
	1RH8701-B		
	1RH8702-A		
	1RH8702-B		
Safety Injection	*1SI8808-A	*1SI8818-A	*1SI8841A
	1SI8808-B	1SI8818-B	1SI8841B
	1SI8808-C	1SI8818-C	
	1SI8808-D	1SI8818-D	
	*1SI8948-A	1SI8956A	*1SI8949-A
	1SI8948-B	1SI8956B	1SI8949-B
	1SI8948-C	1SI8956C	1SI8949-C
	1SI8948-D	1SI8956D	1SI8949-D

3. A.S.M.E. CODE CLASS: 1

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Subsection IWB, Table IWB-2500-1, Examination Category B-M-2, Item B12.50 requires visual examination (VT-3) of valve body internal surfaces exceeding 4 in. nominal pipe size. Examinations shall be conducted on one valve within each group of valves that are of the same construction, and manufacturing method and that perform similar functions in the system, each inspection interval.

RELIEF REQUEST 1NR-3

5. BASIS FOR RELIEF: The code requirement to disassemble one valve from each design group for the purpose of visual examination results in high radiation exposure and does not produce a proportionally higher potential for identification of service induced flaws or degradation. The industrial performance of these valves have proven their excellent ability to resist service degradation or flawing. The inappropriate balance of potential flaw detection and the large impact on expenditures of manpower without substantially increasing component reliability is considered impractical. Coupled with this is the highly negative impact on the Station's ALARA program. Therefore, the examination frequency is not appropriate for the above listed valves.

6. ALTERNATE TEST METHOD: Visual examination, (VT-3) will be performed on one valve from each design group in each system performing a similar function when disassembly is required for maintenance purposes but not to exceed once per inspection interval per design group. In addition, the visual examination leakage test will be performed after each refueling outage.

7. JUSTIFICATION: The licensee has specified valves which are free of pressure boundary welds. The above listed Class 1 valves are free of any pressure boundary welds. Therefore, there is very little likelihood of degradation or flow propagation in these valves. Since these valves have not shown significant service induced degradation in the past, deferral of the internal inspections will not reduce the assurance that their structural integrity has been maintained.

8. APPLICABLE TIME PERIOD: This relief will be required for the first 120 month inspection interval. Note, this inspection is deferrable until the end of the inspection interval and application of this relief may not be required if maintenance is performed on one valve from each group during the first inspection interval.

RELIEF REQUEST 1NR-4

1. SYSTEM: Pressurizer (Pressurizer Vessel), Reactor Coolant (Steam Generator Primary Side).

2. NUMBER OF ITEMS: 14

Component Number	Weld Number
1RC01BA	Primary Nozzles (2)
1RC01BB	Primary Nozzles (2)
1RC01BC	Primary Nozzles (2)
1RC01BD	Primary Nozzles (2)
1RY01S	RY 1, 2, 3, 4A, 4B, 4C

3. A.S.M.E. CODE CLASS: 1

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Subsection IWB, Table IWB-2500-1, Examination Category B-D, Items B3.120 and B3.140 require volumetric examination of the regions described in the applicable figure of Figures IWB-2500-7 (a) through (d) for the Pressurizer Vessel and Steam Generators respectively. Examinations shall be conducted in all nozzle inside radius sections each inspection interval.

5. BASIS FOR RELIEF: The nozzles listed above all contain inherent geometric constraints and clad inner surfaces which limit the ability to perform complete and meaningful volumetric examinations. In addition the pressurizer lower head nozzle (RY-1) is restricted from ultrasonic scanning due to the heater penetrations. The steam generator primary nozzles have a closure ring which provides support for the installation of nozzle dams. This closure ring makes the ultrasonic inspection of the inner radius difficult, if not impossible, to perform.

6. ALTERNATE TEST METHOD: The Steam Generator primary side nozzles shall be inspected visually using the VT-1 method from the inside of the channel head by either a direct method or a remote method at or near the end of each inspection interval. The Pressurizer upper head nozzles shall be inspected visually using the VT-1 method from the inside of the head with a remote system at or near the end of each inspection interval. The Pressurizer lower head nozzle shall be inspected visually from the exterior by the VT-1 method. In addition, all nozzles will be leakage tested after each refueling outage.

RELIEF REQUEST 1NR-4

7. JUSTIFICATION: The VT-1 examination will assure early detection of potentially detrimental flaws. Therefore, by performing the proposed alternative examinations and the required leakage test, an adequate level of structural integrity is assured for continued plant operation.

8. APPLICABLE TIME PERIOD: This relief will be required for the first 120 month inspection interval.

RELIEF REQUEST 1NR-5

1. SYSTEM: Reactor Coolant

2. NUMBER OF ITEMS: 8

   Cast Stainless Steel SA 351-CF8A (Elbow)
   to
   Cast Carbon Steel SA-216 GR-WCC (Nozzle)

Line Number	Weld Number
1RC01AA-29"	1RC-01-8
1RC02AA-31"	1RC-01-9
1RC01AB-29"	1RC-02-19
1RC02AB-31"	1RC-02-23
1RC01AC-29"	1RC-03-8
1RC02AC-31"	1RC-03-9
1RC01AD-29"	1RC-04-9
1RC02AD-31"	1RC-04-10

3. A.S.M.E. CODE CLASS: 1

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Table IWB-2500-1, Examination Category B-F, Item B5.70 requires surface and volumetric examination of the regions described in Figure IWB-2500-8 for all Steam Generator nozzle-to-safe end welds. This examination includes essentially 100% of the weld length. In addition, Appendix III Supplement 7, requires that ultrasonic examination sensitivity be established using I.D. notches with a depth of 10% wall thickness.

5. BASIS FOR RELIEF: The welds listed above are cast austenitic stainless steel SA-351-CF8A to cast carbon steel SA-216 GR-WCC with austenitic stainless steel cladding. The techniques used to examine the cast stainless side of these welds will detect large flaws (25% or greater through the wall) therefore this sensitivity is less than that required by code. In addition, Weld 1RC-02-23 had limited circumferential scans near the weld toe area. This limitation is due to the transducer system's inability to maintain coupling while scanning over the weld-base metal transition.

6. ALTERNATE TEST METHOD: None.

7. JUSTIFICATION: The structural integrity of these welds shall be assured by:

   a. Performing an ultrasonic examination from the carbon steel side.

RELIEF REQUEST 1NR-5

b. Performing a best effort ultrasonic examination based on state of the art techniques from the cast stainless side.

c. Performing surface examinations of the required regions.

d. Performing a system leakage test each refueling outage and a system hydrostatic test each interval.

8. APPLICABLE TIME PERIOD: Relief will be required for the first 120 month inspection interval.

RELIEF REQUEST 1NR-6

1. SYSTEM: Reactor Coolant

2. NUMBER OF ITEMS: 5

Cast Stainless Steel SA-351-CF8A (Elbow)
to
Stainless Steel SA-376 Type 304N (Pipe)

Line Number	Weld Number
1RC02AA-31"	1RC-01-10, 16
1RC03AA-27.5"	1RC-01-30

Cast Stainless Steel SA-351-CF8 (Pump)
to
Stainless Steel SA-376 Type 304N (Pipe)

Line Number	Weld Number
1RC03AA-27.5"	1RC-01-18*

Cast Stainless Steel SA-351-CF8M (Valve)
to
Stainless Steel Sa-376 Type 304N (Pipe)

Line Number	Weld Number
1RC03AA-27.5"	1RC-01-22

3. A.S.M.E. CODE CLASS: 1

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Table IWB-2500-1, Examination Category B-J, Item B9.11 requires surface and volumetric examination of the regions described in Figure IWB-2500-8 for piping 4 in. nominal pipe size and greater. This examination includes essentially 100% of the weld length. In addition, Appendix III, Supplement 7, requires that ultrasonic examination sensitivity be established using I.D. notches with a depth of 10% wall thickness.

5. BASIS FOR RELIEF: The above listed welds are cast stainless steel to wrought stainless pipe. The optimized ultrasonic technique used for the statically cast stainless steel welds will detect large flaws (25% or greater through the wall) therefore this sensitivity is less than that required by code. In addition, due to the unwieldly characteristics of the contoured wedge search units and variations in the machined surfaces those welds listed with a asterick, experienced axial and circumferential scanning limitations.

RELIEF REQUEST 1NR-6

6. ALTERNATE TET METHOD: None.

7. JUSTIFICATION: The structural integrity of these welds shall be assured by:

   a. Performing an ultrasonic exam from the non cast side.

   b. Performing a best effort ultrasonic examination based on state of the art techniques, from the case stainless side.

   c. Performing surface examinations of the required regions.

   d. Performing a system leakage test each refueling outage and a system hydrostatic test each interval.

8. APPLICABLE TIME PERIOD: Relief will be required for the first 120 month inspection interval.

RELIEF REQUEST 1NR-7

1. SYSTEM: Reactor Coolant

2. NUMBER OF ITEMS: 6

Weld #	Line #	Unable to be Examined	Reason for Limted Exam
1RC-16-2	1RY01C-4"	16%	Elbow inner radius reducer geometry
1RC-16-5	1RY01B-6"	16%	Elbow inner radii
1RC-32-1	1RY03AA-6"	16%	Elbow inner radius, nozzle geometry
1RC-32-7	1RY03AB-6"	16%	Elbow inner radius, nozzle geometry
1RC-32-13	1RY03AC-6"	16%	Elbow inner radius, nozzle geometry
1RC-35-1	1RY02A-6"	16%	Elbow inner radius, nozzle geometry

3. A.S.M.E. CODE CLASS: 1

4. A.S.M.E. SECTION XI REQUIREMENTS: Table IWB-2500-1, Examination Category B-J, Item B9.11 requires volumetric and surface examination of the areas described in Figure IWB-2500-8 for essentially 100% of the weld length.

5. BASIS FOR RELIEF: The above listed welds have interferring conditions on each side of the weld. These interferences can cause: poor coupling of the transducer, limited movement of the transducer, redirecting of the sound beam and, in some cases, complete restriction of a particular scan. These conditions sufficiently limit the axial scans so as to leave the listed percent of weld length uninspected.

6. ALTERNATE TEST METHOD: All welds shall receive the required Section XI surface examination in addition to the best effort ultrasonic examination.

7. JUSTIFICATION: The estimates of weld lengths unable to be examined are extremely conservative and are actually a percent of weld length for which there is less confidence that the entire required weld volume will be examined. Based on the required surface and leakage tests the structural integrity of this weld shall be assured.

8. APPLICABLE TIME PERIOD: Relief will be required for the first 120 month interval.

RELIEF REQUEST 1NR-8

1. SYSTEM: Reactor Coolant; Chemical and Volume Control

2. NUMBER OF ITEMS: 4

Component Number	Weld Number
1CV02F	1SWRF-C1
	1SWRF-C2
1CV03F	1RCFC-C1
	1RCFC-C2

3. A.S.M.E. CODE CLASS: 2

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Subsection IWC, Table IWC-2500-1, Examination Category C-A, Items C1.10 and C1.20 require volumetric examination of the regions described in Figure IWC-2500-1, for shell and head circumferential welds. Examinations may be limited to one vessel in cases of multiple vessels of similar design, size, and service and shall be conducted each inspection interval.

5. BASIS FOR RELIEF: The welds listed above have a nominal thickness of .165". Ultrasonic examinations to the extent practical during Preservice Inspection have shown that the welds and base material of the above vessels are extremely thin and produce data which is difficult to interpret.

6. ALTERNATE TEST METHOD: A surface examination, using the liquid penetrant method, is proposed in lieu of ultrasonic examination. In addition, the system leakage test will be performed each inspection period.

7. JUSTIFICATION: Performing a surface examination and leakage test on these components will provide an acceptable level of structural integrity for system operation. It shall also significantly reduce exposure levels associated with ultrasonic examinations.

8. APPLICABLE TIME PERIOD: Relief will be required for the first 120 month interval.

RELIEF REQUEST 1NR-9

1. SYSTEM: Reactor Coolant

2. NUMBER OF ITEMS: 2

Weld Number	Figure Number
1RV-02-002 RV-002	1,2,3,
1RV-03-001 RVCH-001	4,5,6

3. A.S.M.E. CODE CLASS: 1

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Subsection IWB, Table IWB-2500-1, Examination Category B-A, Items B1.11 and B1.40 require volumetric examination of the regions described in Figures IWB-2500-1 and 5 respectfully for welds in the reactor pressure vessel each inspection interval.

5. BASIS FOR RELIEF:

   a. Lower Shell Course-to-Dutchman weld RV-002 (1RV-02-002) has six core support guide lugs welded to the interior surface of the reactor vessel approximately 3.50" above the weld. These lugs restricted the automated inspection tool from inspecting the required volume in the areas of the lugs, shown in Figure 1. All of the weld and heat affected zone received 100% coverage from at least one direction, however the required base metal was not fully inspected in the area of the core support guide lugs. Figures 2 and 3 show exactly what was inspected. Note that the dimensions used for actual coverage are for transducer position, not volume inspected.

   b. Closure Head Flange-to-Dutchman Forging Weld RVCH-001 (1RV-03-001) has the flange which physically obstructs the ultrasonic transducer from performing the required scan area. Part of the three larger lifting lugs also fall in the required scan area. Figures 4 and 5 show the position of the weld and flange. A detailed diagram of the transducer position for actual and required coverage is shown in Figure 6.

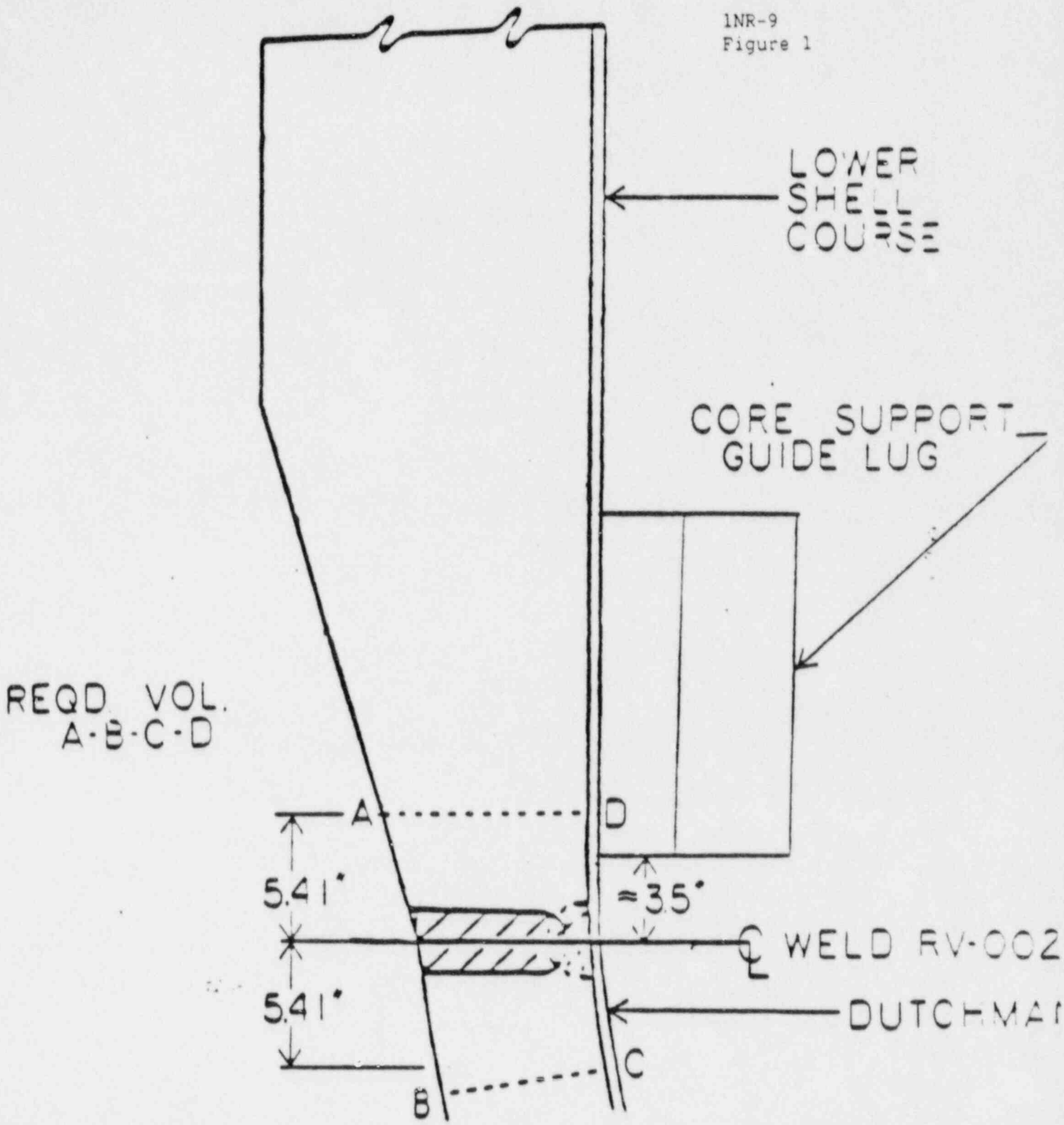
6. ALTERNATE TEST METHOD: None

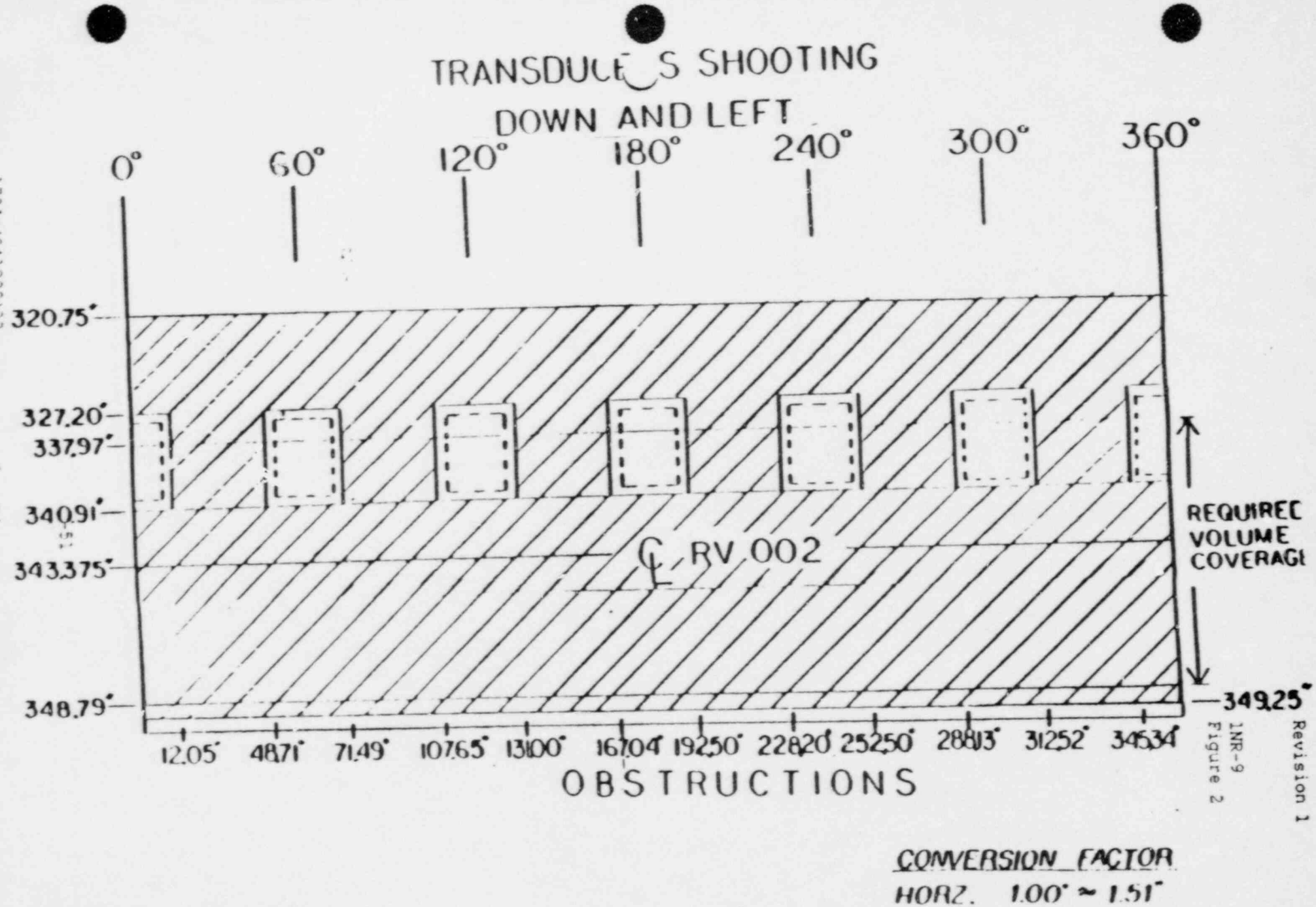
RELIEF REQUEST 1NR-9

7. JUSTIFICATION: The Reactor Vessel is examined remotely using the immersion technique. Completion of the remaining portions of the above listed welds is impractical and would result in undue hardship without a compensating increase in safety. By performing the limited ultrasonic examinations and the leakage test each refueling outage, an adequate level of structural integrity can be assured for plant operation.

8. APPLICABLE TIME PERIOD: Relief will be required for the first 120 month inspection interval.

1NR-9
Figure 1





1734m(041988)22

2-51

INR-9
Figure 2

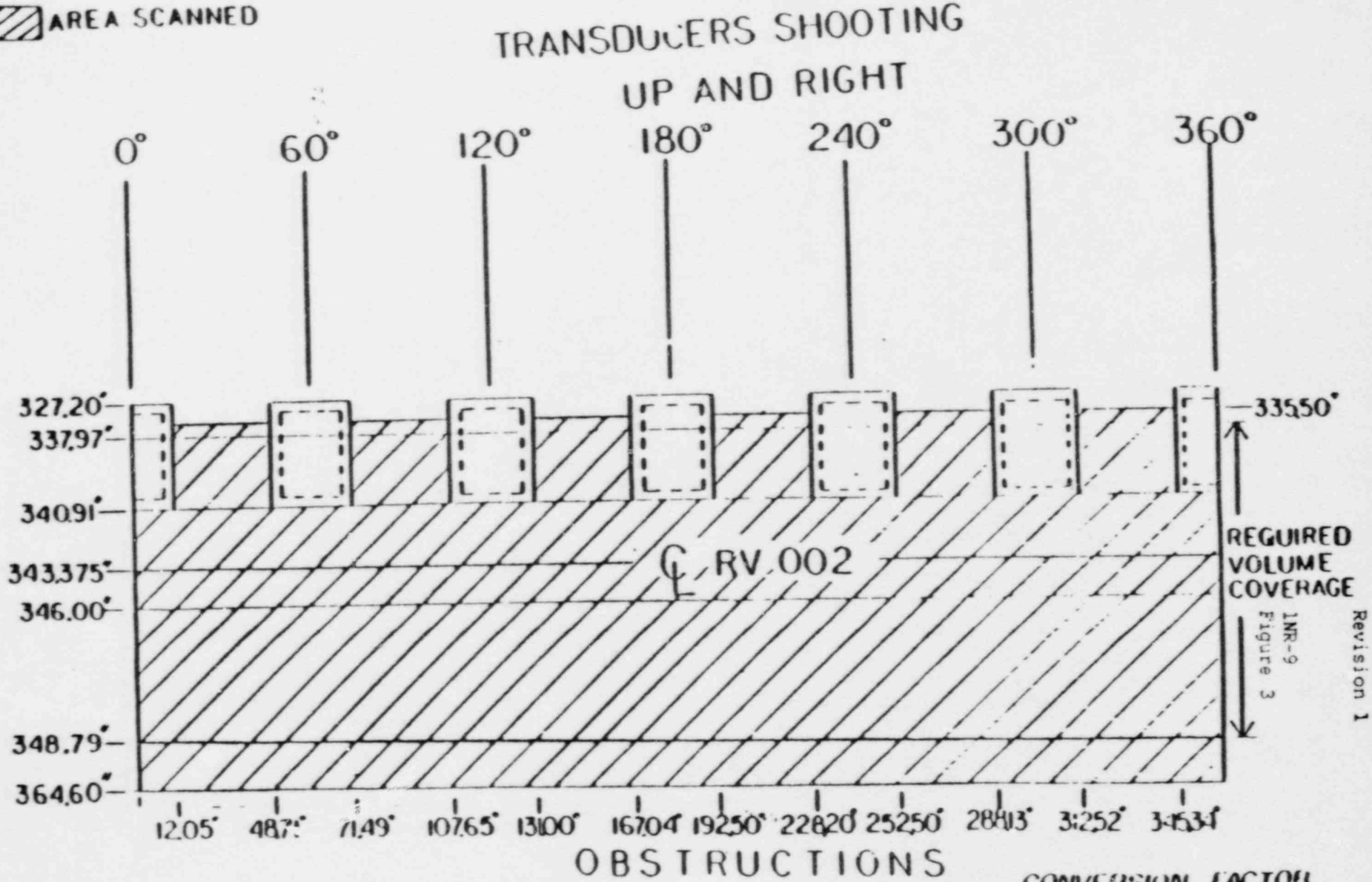
Revision 1

CONVERSION FACTOR
HORZ. 1.00° ≈ 1.51°

NOT TO SCALE
DIMENSIONS FOR
INFORMATION ONLY

NOT TO SCALE
DIMENSIONS FOR
INFORMATION ONLY

AREA SCANNED



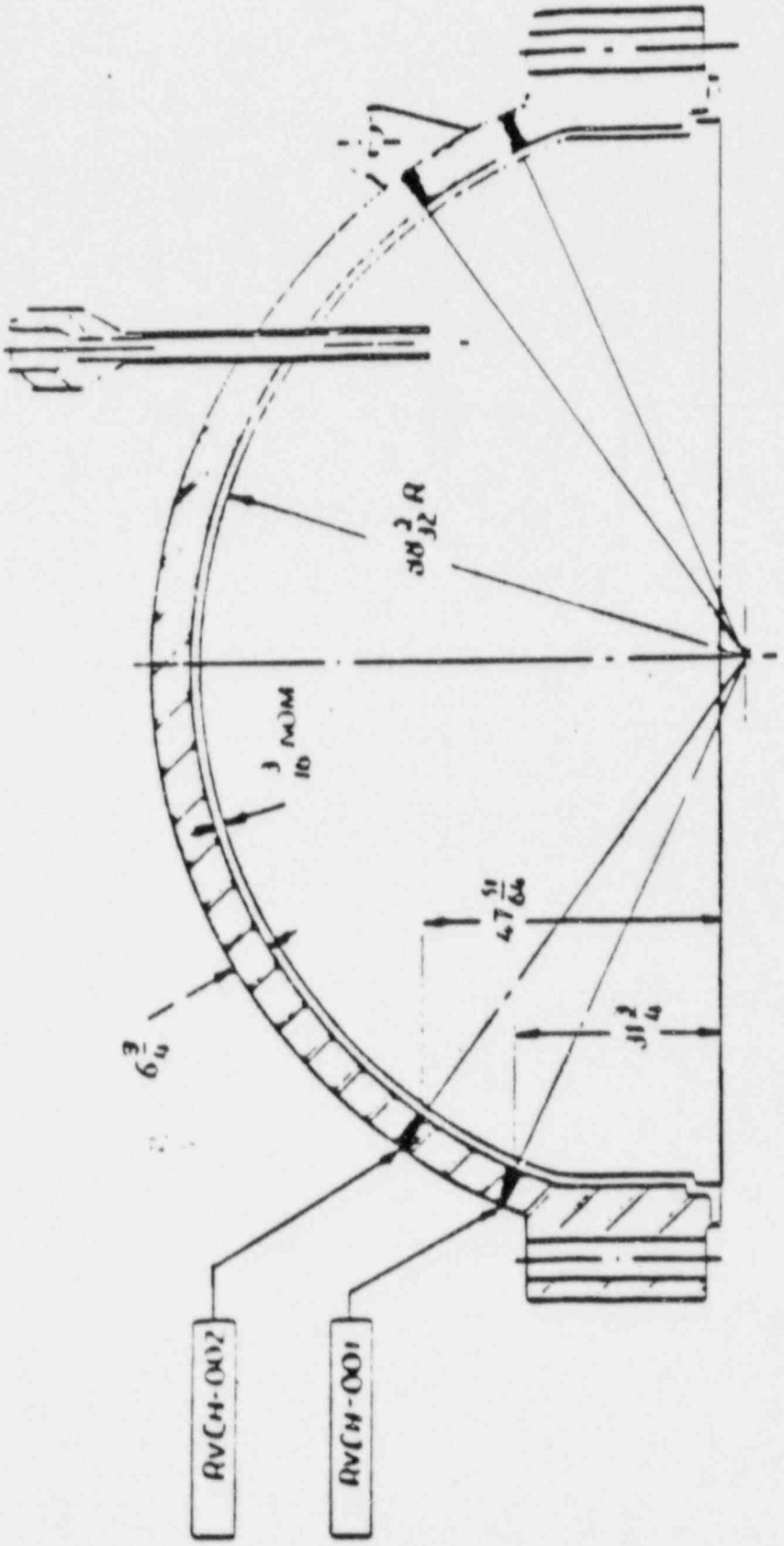
CONVERSION FACTOR
HORZ. 1.00" ≈ 1.51°

1734m(041988)23

2-52

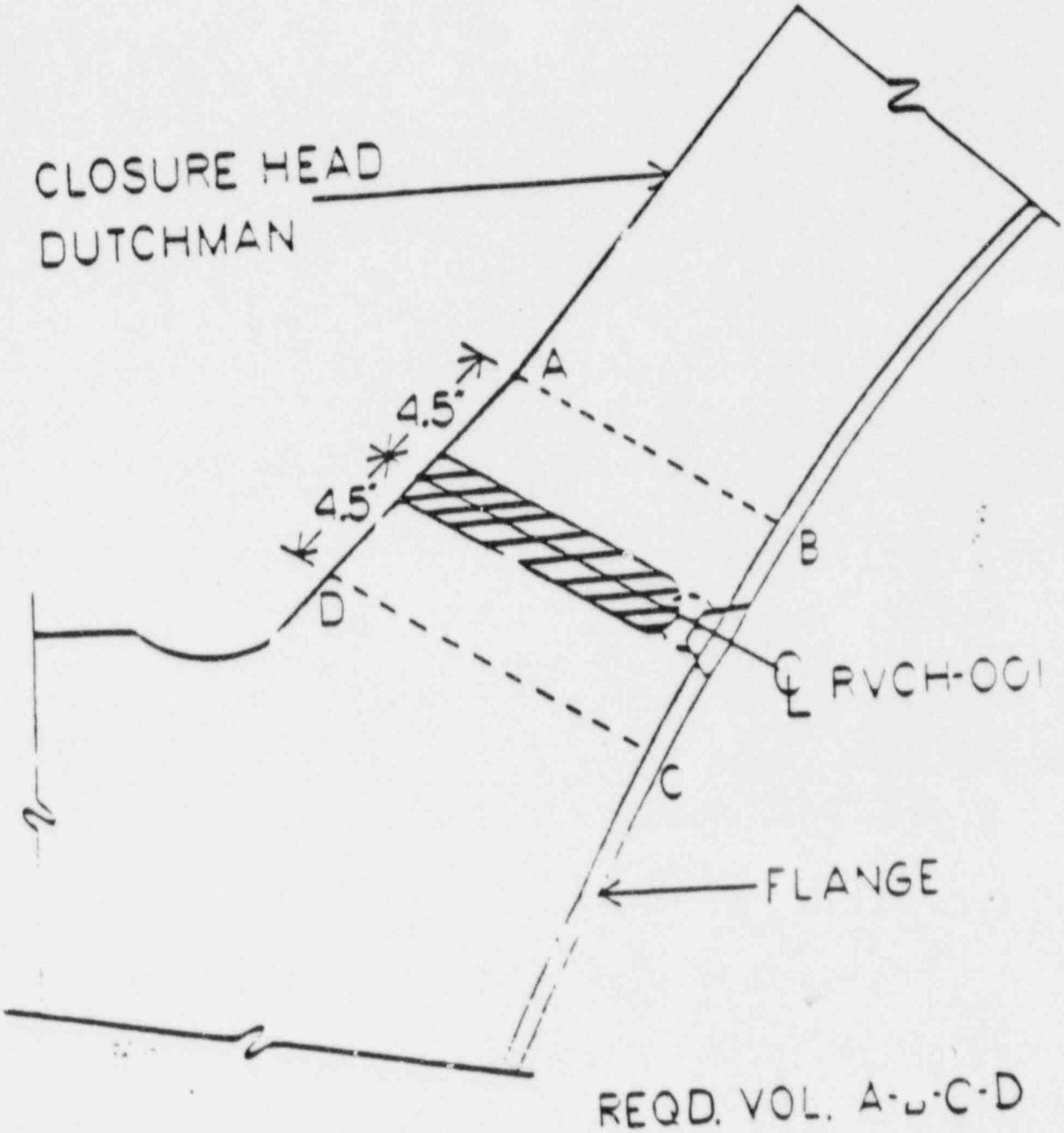
INR-9
Figure 3
Revision 1

1NR-9
Figure 4



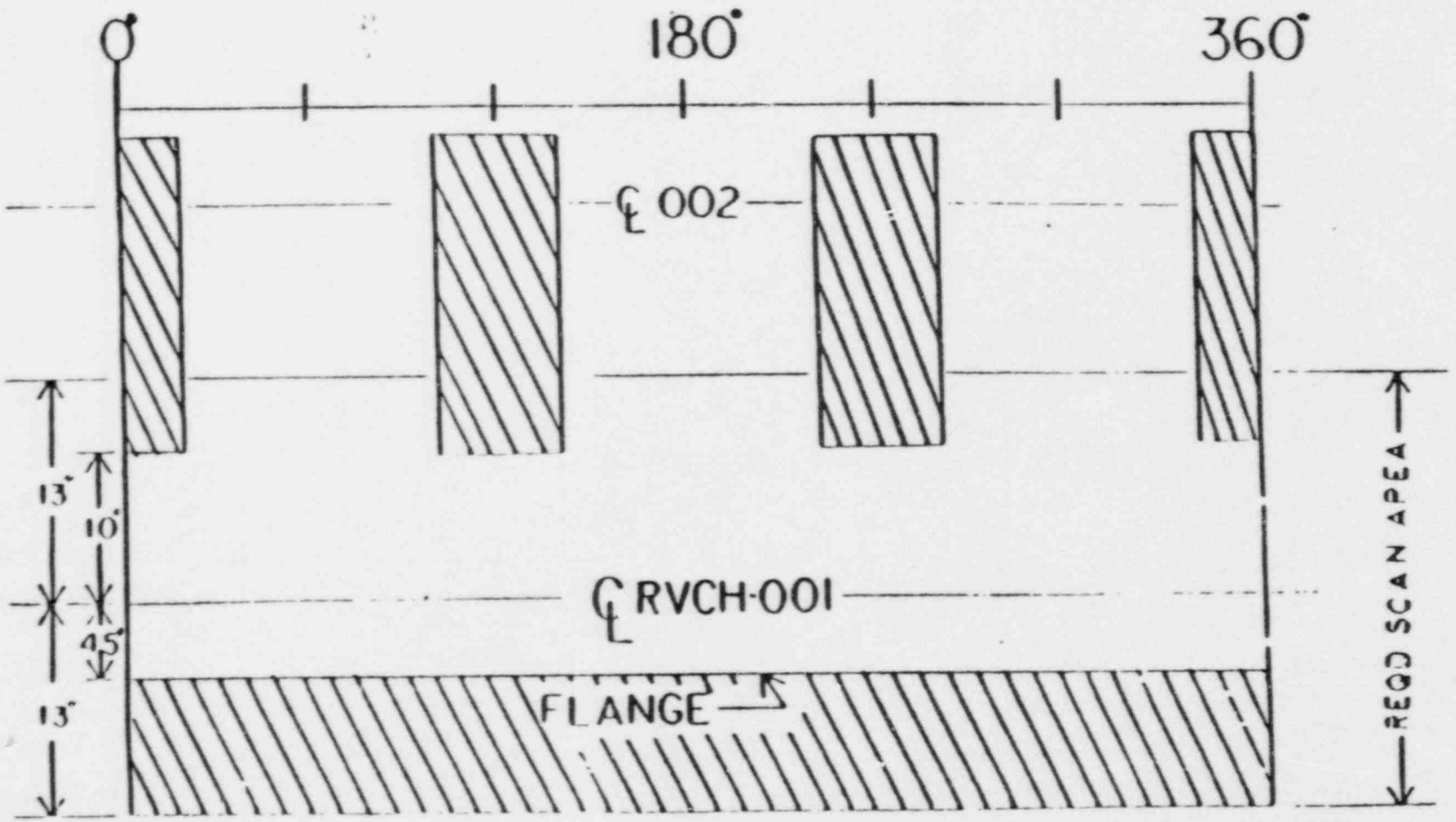
NOT TO SCALE
DIMENSIONS FOR
INFORMATION ONLY

1NR-9
Figure 5



NOT TO SCALE
DIMENSIONS FOR
INFORMATION ONLY

OBSTRUCTION



NOT TO SCALE
DIMENSIONS FOR
INFORMATION ONLY

1734m(041986)26

2-55

Revision 1

INR-9
Figure 6

RELIEF REQUEST 1NR-10

1. SYSTEM: Chemical and Volume Control (Letdown Heat Exchanger)

2. NUMBER OF ITEMS: 1

Component Number	Weld Number	Attachment Number
1CV04AA	HLHXC-01	1

3. A.S.M.E. CODE CLASS: 2

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Subsection IWC, Table IWC-2500-1, Examination Category C-A, Item C1.10 requires volumetric examination of the regions described in Figure IWC-2500-1 for shell circumferential welds. Examinations may be limited to one vessel in cases of multiple vessels of similar design, size, and service and shall be conducted each inspection interval.

   Subsection IWA, paragraph IWA-2232 requires use of Article 5 of Section V for vessels < 2 in. nominal wall thickness.

   Article 5 of Section V requires examination by:

   a. Straight Beam for any defects which might affect interpretation of angle beam results;

   b. Angle Beam Scanning for reflectors oriented parallel to the weld from two directions where possible.

   c. Angle Beam Scanning for reflectors oriented transverse to the weld.

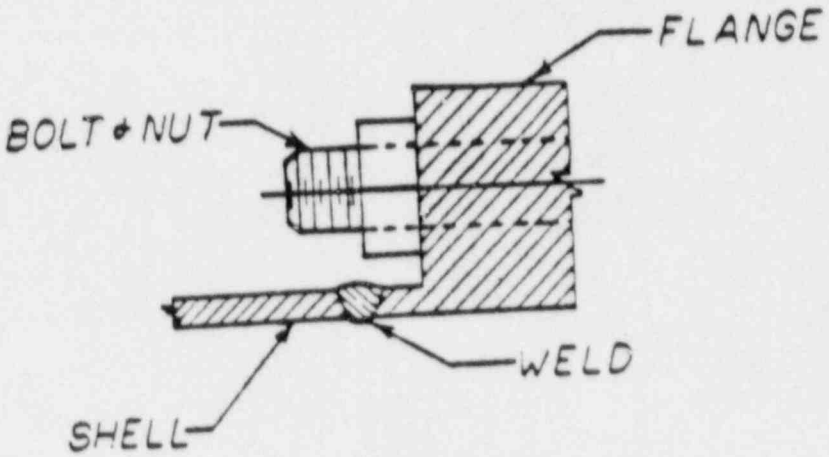
5. BASIS FOR RELIEF: The above listed weld is obstructed by the flange bolting from examination for reflectors transverse to the weld and from straight beam examination. Attachment 1 provides a sketch of this obstruction.

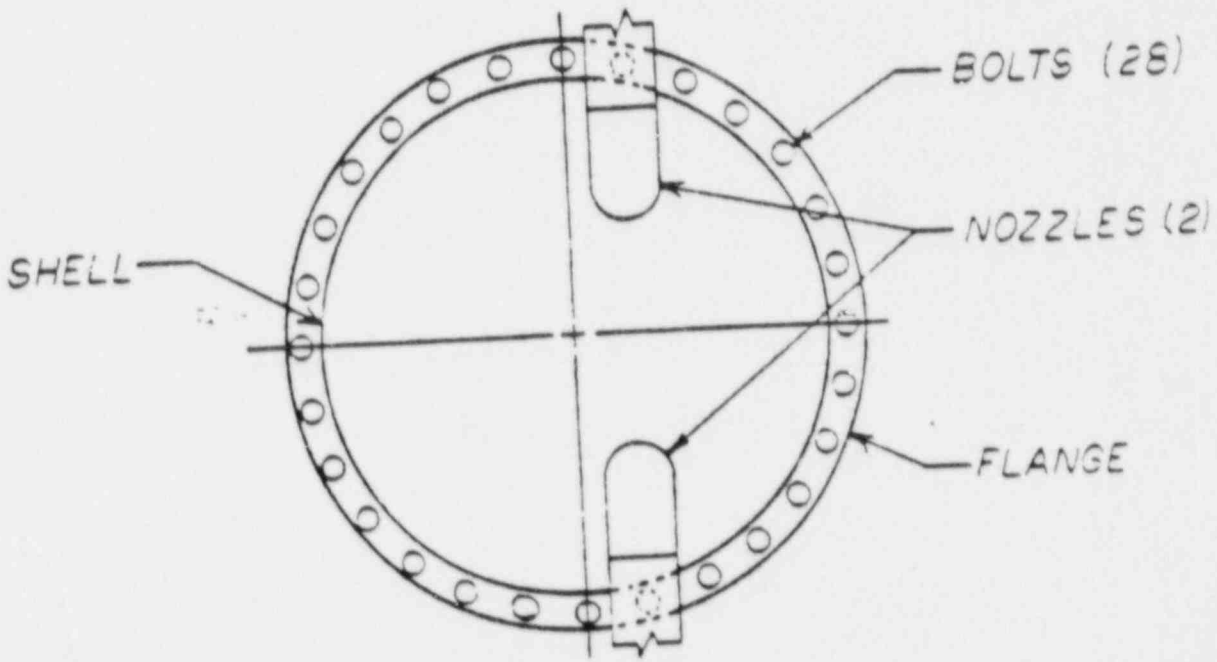
6. ALTERNATE TEST METHOD: A surface examination, using the liquid penetrant method, is proposed in lieu of ultrasonic examination by the straight beam method and angle beam examination for reflectors transverse to the weld. It shall be used in conjunction with the ultrasonic examination for reflectors parallel to the weld. In the event the flange bolting is disassembled for maintenance, the remainder of the inservice examination shall be performed. In addition, the system leakage test will be performed each inspection period.

RELIEF REQUEST 1NR-10

7. JUSTIFICATION: The ultrasonic examination for reflectors parallel to the weld and the supplementary surface examination provide an adequate level of assurance that the structural integrity of this weld is maintained for continued plant operation.

8. APPLICABLE TIME PERIOD: This relief will be required for the first 120 month inspection interval.


FLANGE
BOLT & NUT
WELD
SHELL


BOLTS (28)
NOZZLES (2)
SHELL
FLANGE

RELIEF REQUEST 1NR-11

1. SYSTEM: Chemical and Volume Control (Excess Letdown Heat Exchanger)

2. NUMBER OF ITEMS: 1

Component Number	Weld Number	Attachment Number
1CV01AB	ELHEXC-03	1 & 2

3. A.S.M.E. CODE CLASS: 2

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Subsection IWC, Table IWC-2500-1, Examination Category C-A, Item C1-10 requires volumetric examination of the regions described in Figure IWC-2500-1, for shell circumferential welds. Examinations may be limited to one vessel in cases of multiple vessels of similar design, size, and service and shall be conducted each inspection interval.

   Subsection IWA, paragraph IWA-2232 requires use of Article 5 of Section V for vessels < 2 in. nominal wall thickness.

   Article 5 of Section V requires examination by:

   a. Straight Beam for any defects which might affect interpretation of angle beam results;

   b. Angle Beam Scanning for reflectors oriented parallel to th weld from two directions where possible;

   c. Angle Beam Scanning for reflectors oriented transverse to the weld.

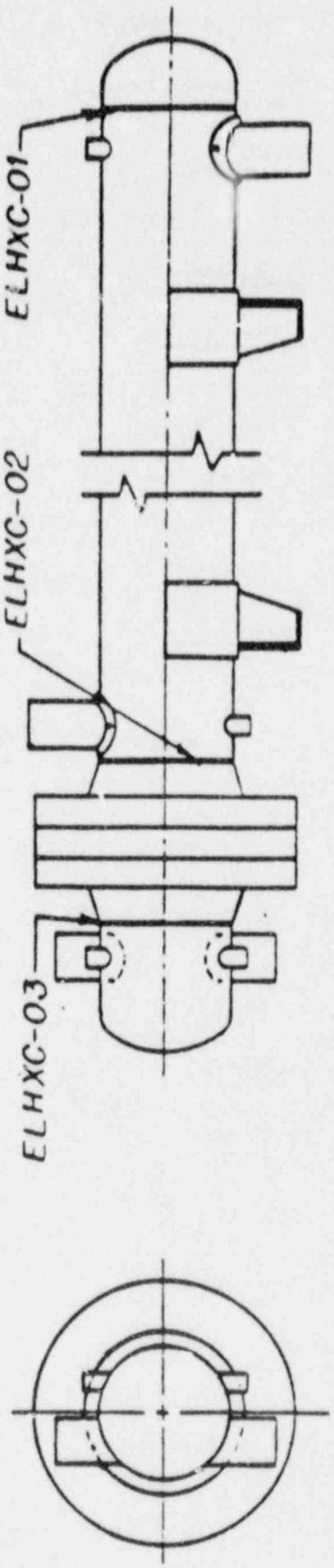
5. BASIS FOR RELIEF: The above listed weld is obstructed for approximately 70% of its length by four branch connections from one side and by a flange on the other. Attachment 1 provides the layout of the vessel while Attachment 2 shows how the branch connections obstruct the weld.

6. ALTERNATE TEST METHOD: A surface examination using the liquid penetrant method is proposed to supplement the limited ultrasonic examination for reflectors oriented parallel to the weld and the complete ultrasonic examination for reflectors transverse to the weld seam. This surface examination will be performed in conjunction with the ultrasonic examinations. In addition, the system leakage test will be performed each inspection period.

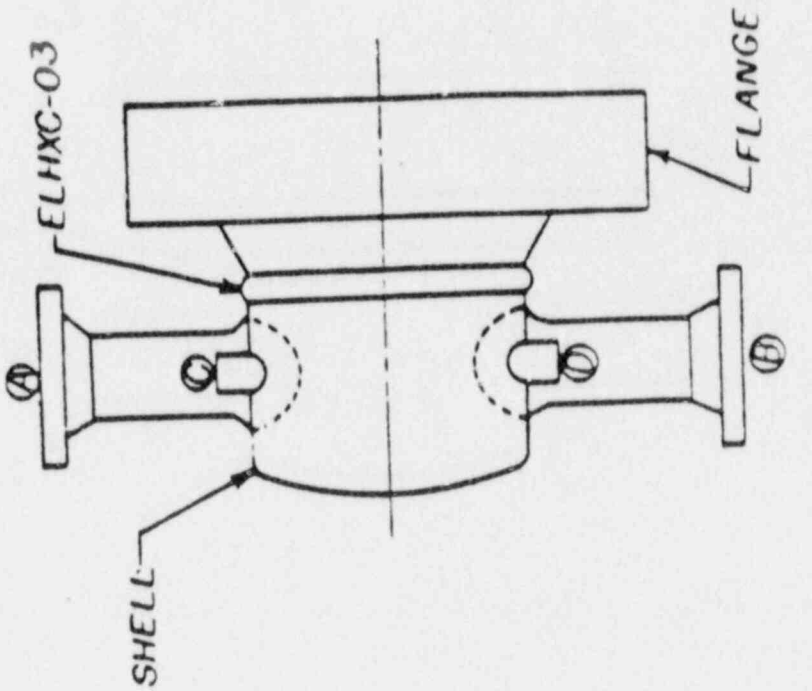
RELIEF REQUEST 1NR-11

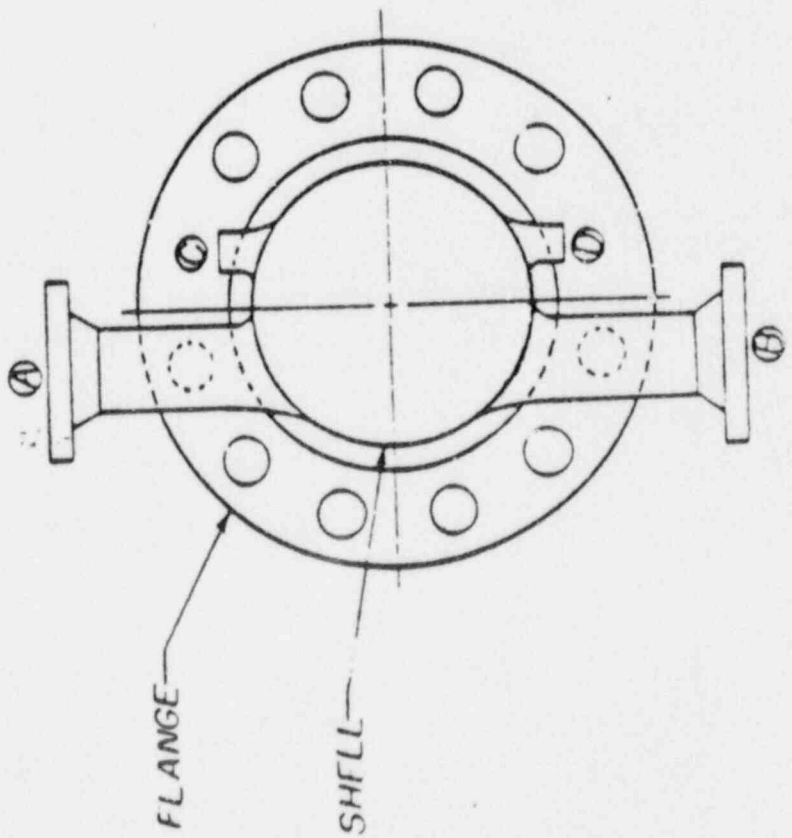
7. JUSTIFICATION: The ultrasonic examinations along with the supplemental surface examination provide an adequate level of assurance that the structural integrity of this weld is maintained for continued plant operation.

8. APPLICABLE TIME PERIOD: This relief will be required for the first 120 month inspection interval.



EXCESS LETDOWN HEAT EXCHANGER


ELHXC-03
FLANGE
SHELL


FLANGE
SHELL

RELIEF REQUEST 1NR-12

1. SYSTEM: Reactor Coolant (Steam Generator, Secondary Side); Residual Heat Removal (Residual Heat Removal Heat Exchanger).

2. NUMBER OF ITEMS: 3

Component Number	Weld Number	Attachment Numbers	Restricted Exam
1RC01BA	SGN-02	1	Inner Radii
1RH02AA	RHXN-01, RHXN-02		Inner Radii and Nozzle to Vessel Weld

3. A.S.M.E. CODE CLASS: 2

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Subsection IWC, Table IWC-2500-1, Examination Category C-B, Item C2.22 requires volumetric examination of the nozzle inner radius and Item C2.21 requires volumetric and surface examination of the Nozzle to Shell weld of the regions described in Figure IWC 2500-4(a) or (b), for nozzles without reinforcing plate in vessels >1/2 in. nominal thickness. Examinations shall be conducted on nozzles at terminal ends of piping runs selected for examination under Examination Category C-F, each inspection interval.

5. BASIS FOR RELIEF: The nozzles listed above contain inherent geometric constraints which limit the ability to perform meaningful ultrasonic examinations. The main feedwater nozzle (SGN-02) has an internal multiple venturi type flow restrictor, and, in addition, an internal thermal sleeve, see Attachment 1. This design does not allow for nozzle inner radii examination due to the geometry of the nozzle's internal design.

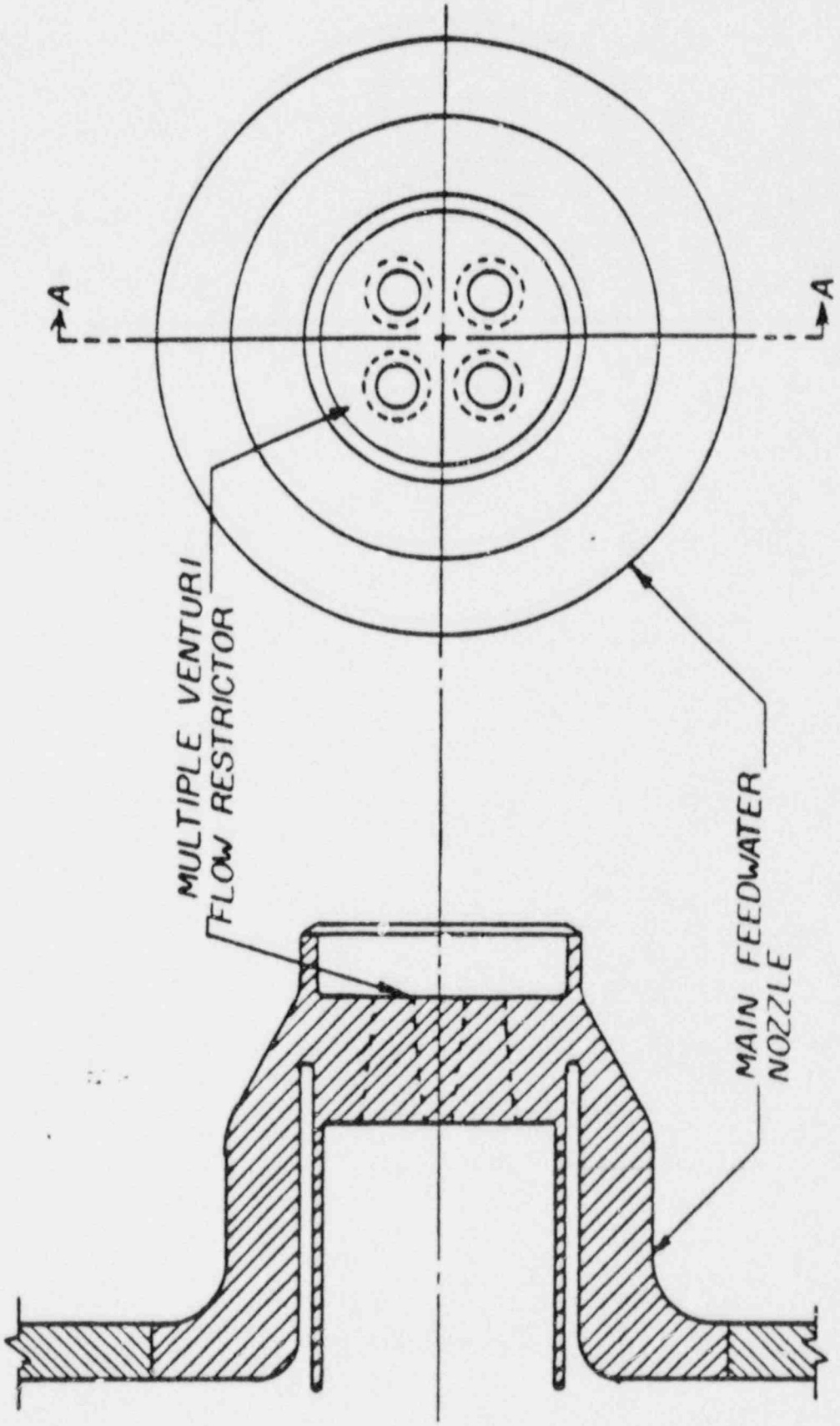
The Residual Heat Removal Heat Exchanger is approximately 7/8 in. nominal wall thickness with nozzles of 14 inch diameter and approximately 3/8 in. in nominal wall thickness. The configuration is best characterized as a fillet welded nozzle using an internal reinforcement pad and, thereby is not analogous to a full penetration butt welded nozzle is shown in Figure IWC-2520-4. In addition, the inner radius of the reinforcement pad would be representative of the nozzle inner radius required for inspection. the inherent geometric constraints of the nozzle design prevent the performance of the required ultrasonic examinations of the nozzle-to-shell weld and the nozzle inner radius.

RELIEF REQUEST 1NR-12

6. ALTERNATE TEST METHOD: The welds listed above will receive the required Section XI surface examinations. Visual examination (VT-1) of the nozzle inner radii shall be performed either directly or remotely to the extent practical when disassembly is required for maintenance purposes not to exceed once per inspection interval. In addition, visual examination (VT-2) shall be performed each inspection period on all pressure retaining components.

7. JUSTIFICATION: The VT-1 examination will assure early detection of detrimental flaws. Therefore, in performing the proposed alternative examinations during disassembly for maintenance, an adequate level of structural integrity can be assured for continued plant operation.

8. APPLICABLE TIME PERIOD: This relief will be required for the first 120 month inspection interval.


A
A
MULTIPLE VENTURI
FLOW RESTRICTOR
MAIN FEEDWATER
NOZZLE

SECTION A-A

RELIEF REQUEST 1NR-13

1. SYSTEM: Reactor Coolant

2. NUMBER OF ITEMS: 1

Line Number	Weld Number	Interferring Condition
1RY01B-6"	1RC-16-1	Nozzle-Reducer

3. A.S.M.E. CODE CLASS: 1

4. A.S.M.E. SECTION XI REQUIREMENTS: Table IWB-2500-1, Examination Category B-J-, Item B9.11 requires volumetric and surface examination of the areas described in Figure IWB-2500-8.

5. BASIS FOR RELIEF: The geometry of 1RC-16-1 (Nozzle- reducer) prohibits meaningful ultrasonic examination.

6. ALTERNATE TEST METHOD: None

7. JUSTIFICATION: The structural integrity of this weld shall be insured by:

   a. Performing a surface examination of the region required.

   b. Performing a system leakage test each refueling outage and a system hydrostatic test each interval.

8. APPLICABLE TIME PERIOD: Relief will be required for the first 120 month inspection interval.

RELIEF REQUEST 1NR-14

1. SYSTEM: Reactor Coolant (Reactor Coolant Pumps)

2. NUMBER OF ITEMS: 1 of 4; 1RC01PA, 1RC01PB, 1RC01PC, 1PC01PD.

3. A.S.M.E. CODE CLASS: 1

4. A.S.M.E. SECTION XI REQUIREMENTS: Subsection IWB, Table IWB-2500-1, Examination Category B-L-2, Item B12.20 requires a visual examination (VT-3) of pump casing internal surfaces. Examinations shall be conducted on at least one pump in each group of pumps performing similar functions in the system, each inspection interval. In addition, Examination Category B-P, Item B15.60 requires a system leakage test, (IWB-5221) each refueling outage for pump pressure retaining boundaries.

5. BASIS FOR RELIEF: The code requirement to disassemble at least one pump from each group of pumps performing similar functions, results in high radiation exposures and does not produce a proportionally higher potential for identification of service induced flaws or degradation. The industrial performance of these pumps have proven their excellent ability to resist service degradation or flawing. The inappropriate balance of potential flaw detection and the large impact on expenditures of manpower without substantially increasing component reliability is considered impractical. Coupled with this is the highly negative impact on the Station's ALARA program. Therefore, the examination frequency is not appropriate for inspection of the above listed pumps.

6. ALTERNATE TEST METHOD: Visual examination (VT-3) will be performed on one of these pumps when disassembly is required for maintenance purposes but will not exceed more than one inspection per interval. In addition, the visual examination, (VT-2' leakage test will be performed after each refueling outage.

7. JUSTIFICATION: The licensee has specified pumps which are free of pressure boundary welds. The above listed Class 1 pumps are free of any pressure boundary welds, and also free of any integrally welded attachments. Therefore, there is very little likelihood of degradation or flaw propagation in these pumps. Since these pumps have not shown significant service induced degradation in the past, deferral of the internal inspections will not reduce the assurance that their structural integrity has been maintained.

8. APPLICABLE TIME PERIOD: This relief will be required for the first 120 month inspection interval. Note, this inspection is deferrable until the end of the inspection interval and application of this relief may not be required if maintenance is performed on a pump during the first inspection interval.

RELIEF REQUEST 1NR-15

1. SYSTEM: Chemical and Volume Control (Centrifugal Charging Pump), Residual Heat Removal (Residual Heat Removal Pump).

2. NUMBER OF ITEMS: 7

Component Number	Weld Number	Attachment Number
1CV01PA	CVP-01, CVP-02 CVP-03, CVP-04	1
1RH01PA	RHP-01, RHP-02 RHP-03	2

3. A.S.M.E. CODE CLASS: 2

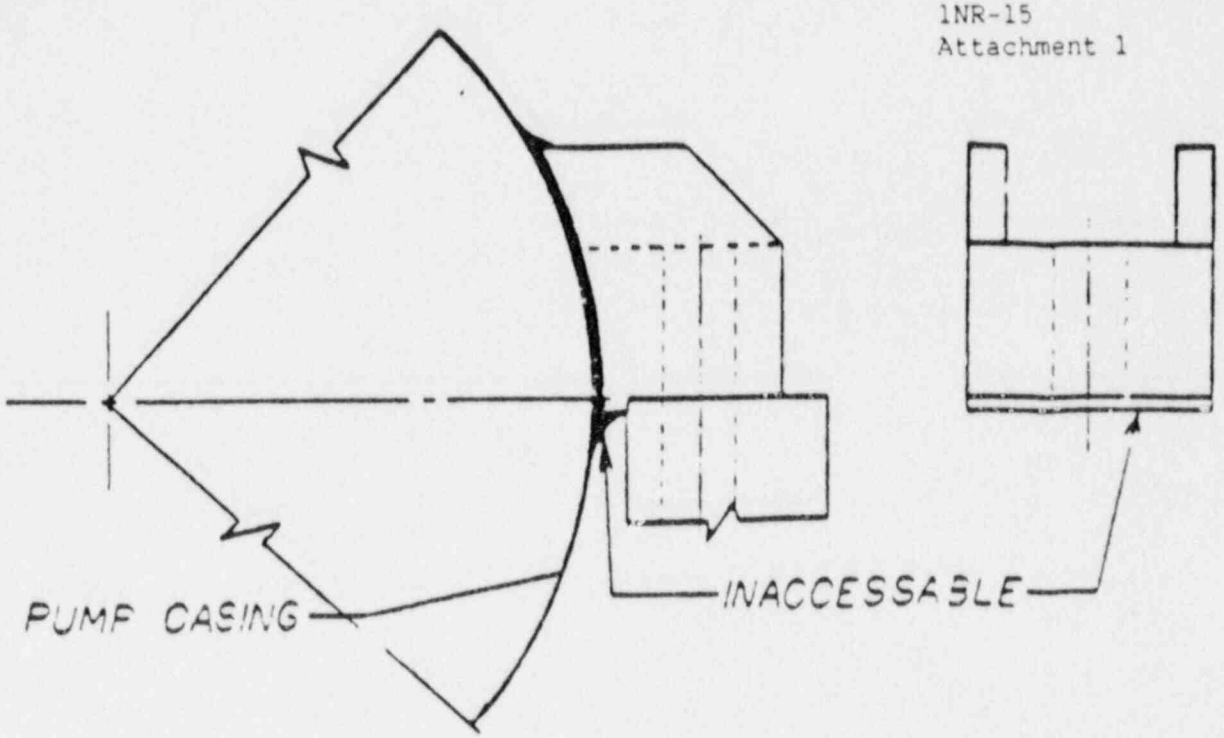
4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Subsection IWC, Table IWC-2500-1, Examination Category C-C, Item C3.30 requires surface examination of the regions described in Figure IWC-2500-5 for integrally welded attachments in pumps. Examinations shall be conducted on components required to be examined under Examination Categories C-F or C-G each inspection interval.

5. BASIS FOR RELIEF: The above listed welds connect the support lugs to the pump casings. These integrally welded attachments can not be examined on one of the required sides due to the location of structural supports. Attachments 1 and 2 provide sketches of the obstructions. As can be seen from the sketches, the welds are located between the pump casing and the structural supports for the pumps. These welds can only be examined in the areas which allow sufficient clearance.

6. ALTERNATE TEST METHOD: A visual examination, (VT-1) will be performed on the inaccessible side of the integrally welded attachments when the surface examination is performed on the remaining portion of the attachments. In addition, the system leakage test will be performed each inspection period.

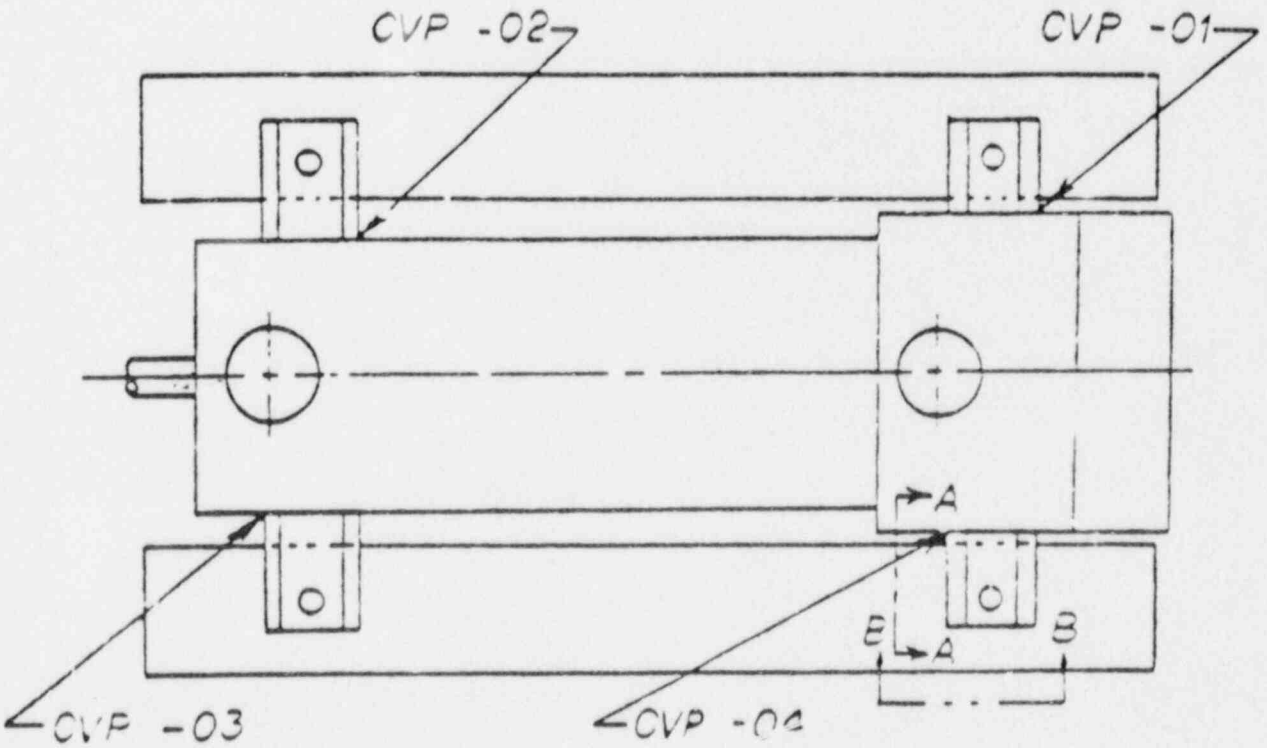
7. JUSTIFICATION: These welds are not full penetration welds, as such, the proposed VT-1 examination, in conjunction with the surface examination will identify developing defects. Therefore, by performing the alternate visual examination to supplement the partial surface examination, an adequate level of structural integrity can be assured for continued plant operation.

8. APPLICABLE TIME PERIOD: This relief will be required for the first 120 month inspection interval.

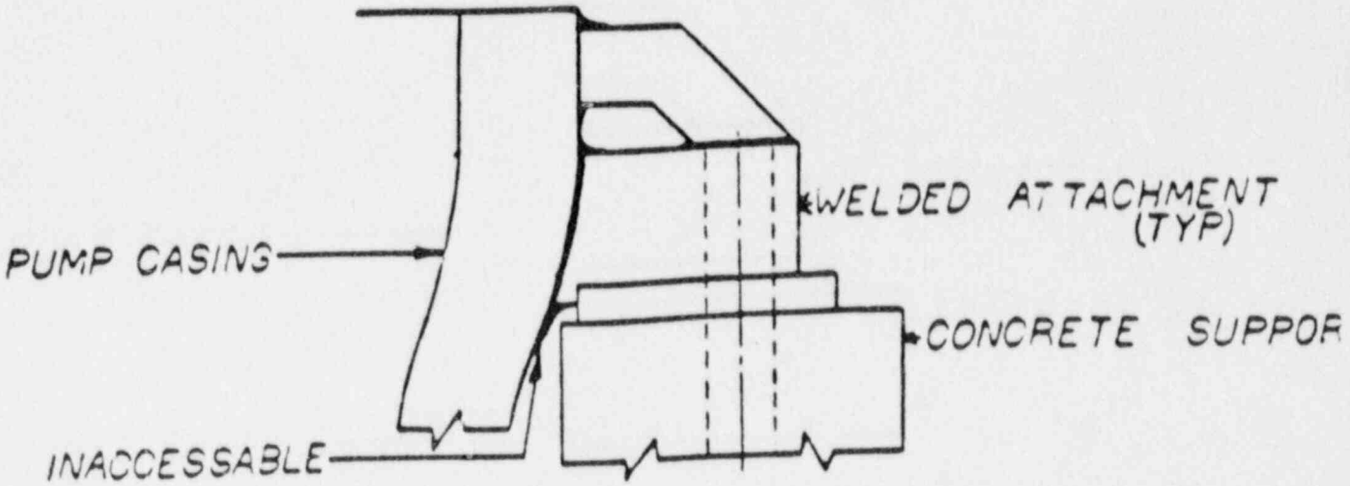


VIEW A-A

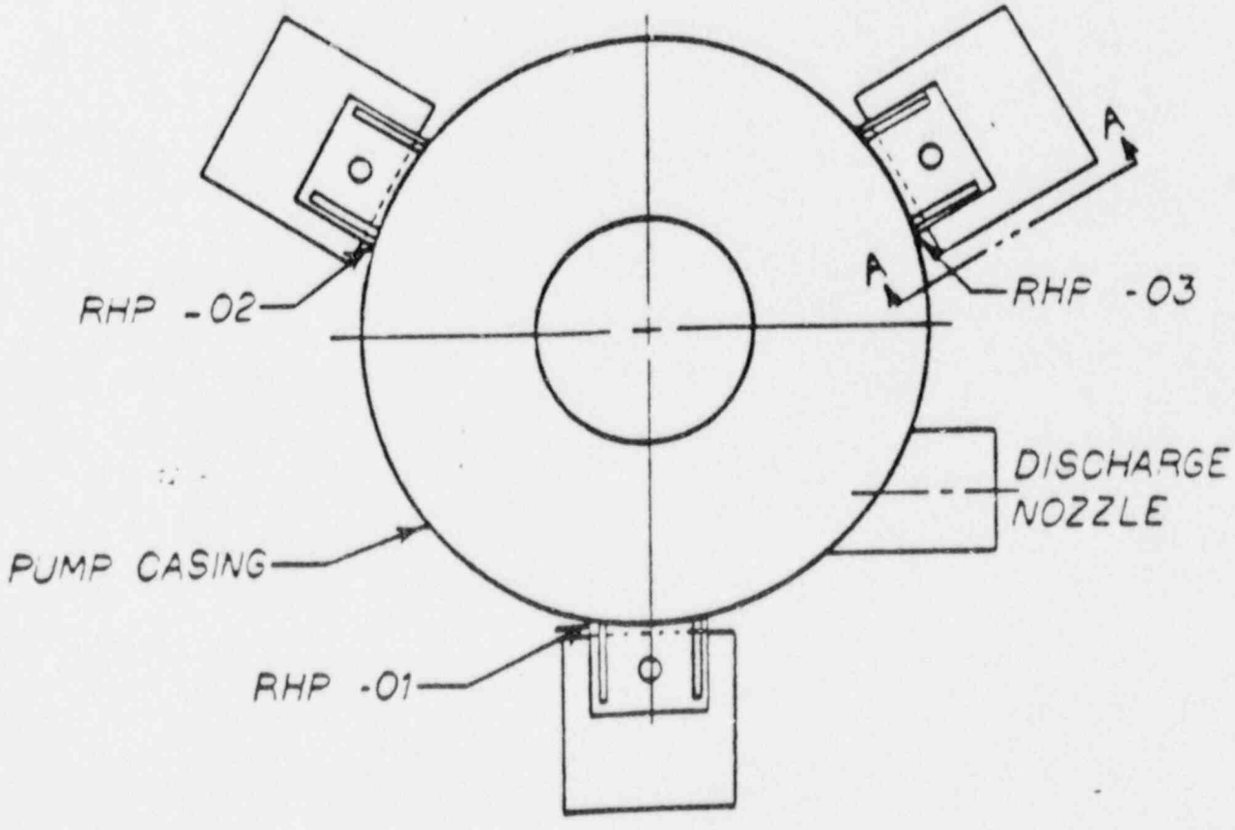
VIEW B-B



CV PUMP 1CV01PA



VIEW A-A



RHR PUMP 1RH01PA

RELIEF REQUEST 1NR-16

1. SYSTEM: Main Steam and Feedwater

2. NUMBER OF ITEMS: 6

Weld	Line	Percentage of Weld Length Not Examined	Reason for Limited Exam
1FW-01-01	1FW86AD-16"	16%	Branch connection, valve geometry
1FW-02-01	1FW86AA-16"	16%	Branch connection, valve geometry
1FW-04-29	1FW03DC-16"	25%	Elbow inner radius, valve geometry
1MS-01-01	1MS01AD-32"	8%	Nozzle, gamma plug
1MS-02-07	1MS01BD-30.25"	16%	Tee, weldolets
1MS-04-07	1MS01BA-30.25"	26%	Weldolets, tee geometry

3. A.S.M.E. CODE CLASS: 2

4. A.S.M.E. CODE SECTION XI REQUIREMENTS: Subsection IWC, Table IWC-2500-1, Examination Category C-F, Item C5.21 requires surface and volumetric examination of the regions described in IWC-2500-7 for essentially 100% of the weld length.

5. BASIS FOR RELIEF: The welds listed above have been selected for examination during the first inspection interval. They have interfering condition on each side of the weld. These interferences can cause poor coupling of the transducer, limited movement of the transducer, redirecting of the sound beam and in some cases, complete restriction of a particular scan. These conditions sufficiently limit the axial scans so as to leave the listed percent of the weld uninspected.

6. ALTERNATE TEST METHOD: The welds listed above will receive the required Section XI surface examination in addition to a best effort ultrasonic examination.

7. JUSTIFICATION: The estimates of weld length not examined are extremely conservative and are actually a percent of weld length for which there is less confidence that the entire required weld volume was examined. Based on acceptable surface examinations, acceptable radiographic examinations and a best effort ultrasonic examination which inspected a majority of the weld length, an adequate level of structural integrity is assured.

8. APPLICABLE TIME PERIOD: This relief will be required for the first 120 month interval.

RELIEF REQUEST 1NR-17

1. SYSTEM: Reactor Coolant; Chemical and Volume Control

2. NUMBER OF ITEMS: 6

3. A.S.M.E. CODE CLASS: 2

Component Number	Weld Number	Material Thickness
1CV01AB	1ELHXC-1	.323"
	1ELHXC-2	.323"
1CV05A	1LRHXC-1	.327"
	1LRHXC-2	.188"
1CV01T	1VCTC-2	.252"
	1VCTC-3	.252"

4. A.S.M.E. CODE SECTION XL REQUIREMENTS: Subsection IWC, Table IWC-2500-1, Examination Category C-A, Items C1.10 and C1.20 require volumetric examination of the regions described in Figure IWC-2500-1, for shell and head circumferential welds. Examinations may be limited to one vessel in cases of multiple vessels of similar design, size, and service and shall be conducted each inspection interval.

5. BASIS FOR RELIEF: The welds listed above are of extremely thin material. Ultrasonic examinations to the extent practical conducted during Preservice Inspection have shown these welds to produce data which is extremely difficult to interpret due to their thickness.

6. ALTERNATE TEST METHOD: A surface examination, using the liquid penetrant method, is proposed in lieu of ultrasonic examination. In addition, the system leakage test will be performed each inspection period.

7. JUSTIFICATION: Performing a surface examination and leakage test on these components will provide an acceptable level of structural integrity for system operation. It shall also significantly reduce exposure levels associated with ultrasonic examinations.

8. APPLICABLE TIME PERIOD: Relief will be required for the first 120 month interval.