

MISSISSIPPI POWER AND LIGHT COMPANY
PRESERVICE INSPECTION PROGRAM
GRAND GULF NUCLEAR STATION UNIT 1

BOOK NUMBER 2 CONTAINS GENERAL ELECTRIC ISOMETRICS
ON SYSTEM NUMBER C41, B21(FW), B21(MS), B21(RV),
B21(SD), B21(SF), B33 and G33

COPY 4 REVISION A

INFORMATION ONLY

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OR MAINTENANCE

3

RH - RHR SYSTEM - E12

INFORMATION ONLY

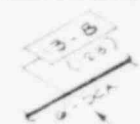
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3

DRAWING

SYMBOLS

LETTER SYMBOLS



SPOOL I.D. NO.
W/ VENDOR DWG NO.
IN PARENTHESES



LINE SIZE &
SPECIFICATION
DESIGNATION

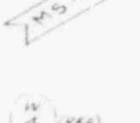
SHOP WELD
I.D. NO.



FIELD WELD
I.D. NO.



LONGITUDINAL SEAM
WELD I.D. NO.



DWG CONTINUATION
(ARROW POINTS IN
DIRECTION OF FLOW)



WELD COUNTED ON
CONTINUATION SHEET
AND SHOWN THIS
SHEET FOR REFERENCE

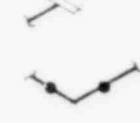


VALVE & I.D. NO.

INDICATES PRESSURE
RETAINING BOLTING



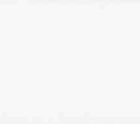
CHECK VALVE
& I.D. NO.



FLG. BUTTERFLY
VALVE &
I.D. NO.



ELL



REDUCER



TEE



STUB-IN FITTING
(VOL, SOL, & C)



PLUGGED STUB-IN



WELD CAP



SCREWED CAP



PLAIN END



VENDOR CODE TAG
& SHOP WELD NO.



PENETRATION
SLEEVE



PENETRATION
SLEEVE W/ FLUED
HEAD OR SEAL
PLATE



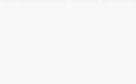
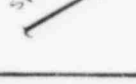
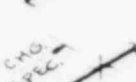
"IN-LINE"
PENETRATION



LIMIT OF SAFETY
RELATED PIPING
& COMPONENTS



POINT OF DESIGN
SPECIFICATION
CHANGE



PIPING SYSTEMS

CC - CONTAINMENT COOLING

CD - CONDENSATE

CG - COMBUSTIBLE GAS

CR - CHILLED WATER

CS - COND/RW STORAGE & TRANSFER

CU - REACTOR WATER CLEANUP

CW - COMP COOLING WATER

DG - DIESEL GENERATOR

DR - FLOOR & EQUIPMENT DRAIN

DW - DOMESTIC WATER

FC - FUFL POOL COOLING & CLEANUP

FD - FILTER/DEMIN (FP/COU)

FW - FEEDWATER

HP - HIGH PRESSURE CORE SPRAY

IA - INSTRUMENT AIR

LC - LEAK DETECTION

LD - LEAK DETECTION

LP - LOW PRESSURE CORE SPRAY

LR - LEAK RATE TEST SYSTEM

MS - MAIN STEAM

RD - CONTROL ROD DRIVE

RF - FILTER/DEMIN (RWCU)

RH - RESIDUAL HEAT REMOVAL

R1 - REACTOR CORE ISOLATION COOLING

RR - REACTOR RECIRCULATION

RV - MAIN STEAM RELIEF VALVE

SA - SERVICE AIR

SC - SUPPRESSION POOL CLEAN UP

SD - MAIN STEAM DRAINS

SM - SUPP POOL MAKE UP

SW - PLANT SERVICE WATER

WS - STANDBY SERVICE WATER

WELDING CONFIGURATION

A - LONGITUDINAL SEAM

B - PIPE TO ATTACHMENT

C - PIPE TO FITTING

D - PIPE TO NOZZLE

E - PIPE TO PIPE

F - PIPE TO PUMP

G - PIPE TO VALVE

H - PIPE TO WELDOLET

I - FITTING TO FITTING

K - FITTING TO PUMP

L - FITTING TO VALVE

M - VALVE TO VALVE

N - PIPE TO SWEEPolet

P - PIPE TO SOCKlet

R - CODE TAG WELD

INFORMATION ONLY

AUX - AUXILIARY

BLDG - BUILDING

CL - CENTERLINE

CL - CLASS

COMP - COMPLETE COMPONENT

CONT - CONTAINMENT

DW - DRYWELL

DWG - DRAWING

EL - ELEVATION

FLG - FLANGE

HD - HEAD

HX - HEAT EXCHANGER

ID - IDENTIFICATION

ISI - INSERVICE INSPECTION

MPL - MASTER PARTS LIST

N - NORTH OF NOZZLE

PEN - PENETRATION

REV - REVISION

RPV - REACTOR VESSEL

RX - REACTOR

SCH - SCHEDULE

SHT - SHEET

SOL - SOCKlet

STD - STANDARD

STM - STEAM

TOL - THREADlet

TURB - TURBINE

WOL - WELDOLET

HANGERS

A - SNUBBER

B - RIGID STRUT

C - BOX OR GUIDE

D - SPRING

E - COMBINATION

F - ANCHOR

PWR

ORIGINAL COPY WHEN THIS IMPRINT IN RED

SCALE NONE	JOB NO. JB-1	TITLE LEGEND FOR ISI ISOMETRIC DRAWINGS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING ATLANTA, GEORGIA
CONTRACT NO. 360474002	MADE FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	
DRAWING NO. 351N79B0006			REV. NO. 1 OF 3

ISI EXAMINATION REQUIREMENTS

- 1 VOLUMETRIC EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, IWB-2600 AND IWC-2600.
- 10% VOLUMETRIC EXAMINATION OF 10% OF THE CLASS 2 PIPING WELDS IN ECCS SYSTEMS WHICH ARE PRESSURIZED LESS THAN 200 PSI DURING NORMAL PLANT OPERATION AND ARE NOT EXEMPTED BY OTHER CRITERIA
- 2 SURFACE EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, IWB-2600 AND IWC-2600.
- 3 VISUAL EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, IWB-2600 AND IWC-2600.
- 4 SYSTEM LEAKAGE AND HYDRO STATIC PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWB-5000.
- 5 SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 2 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWC-5000.
- 6 SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 3 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWB-5000.
- 7 ASME CLASS 2 AND 3 COMPONENTS EXEMPT FROM ANY ISI PER ASME SECTION XI

INFORMATION ONLY

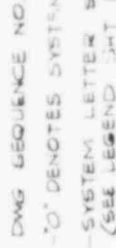
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OR MAINTENANCE

3

DWG. NUMBERING SYSTEM

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

EXAMPLE: MS-O-1



II. WELD IDENTIFICATION DWGS (ISOMETRIC)

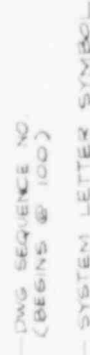
A. ASME CLASS 1 & 2 SYSTEMS

EXAMPLE: FW-11-2



B. CLASS 3 SYSTEMS

EXAMPLE: CU-103



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SCALE NONE	JOB NO JB-1	TITLE LEGEND FOR ISI ISOMETRIC DRAWINGS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV ATLANTA, GEORGIA
CONTRACT NO 860N74002	PROJECT MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO 35IN79B00006 REV A
			SHEET NO 2 OF 3

PIPE CLASSES ARE DESIGNATED BY A THREE LETTER CODE. THE FIRST LETTER INDICATES THE PRIMARY FLANGE PRESSURE RATING, THE SECOND LETTER, THE TYPE OF MATERIAL; AND THE THIRD LETTER, THE CODE TO WHICH THE PIPING IS DESIGNED.

FIRST LETTER - PRIMARY PRESSURE RATING

(UNLESS OTHERWISE NOTED, ALL RATINGS ARE IN ACCORDANCE WITH ANSI B16.5)

A. SPECIFIC PRESSURE AT SPECIFIC TEMPERATURE

B. 2500#

C. 1500#

D. 900#

E. 600#

F. 400#

G. 300#

H. 150#

J. 125# ANSI B16.1

K. 175# WOG UNDERWRITERS' LABORATORIES, INC.

L. 250# ANSI B16.1

X. GRAVITY RATING

Y. ROOF DRAINS, GRAVITY RATING

ADDITIONAL PRESSURE RATINGS:

M. 200# (MANUFACTURER'S RATING)

N. 150# WOG

P. 100# (MANUFACTURER'S RATING)

R. 75# (MANUFACTURER'S RATING)

S. 50# WOG

T. 25# AWWA (OR MANUFACTURER'S RATING)

Z. GENERAL USE AS DESIGNATED ON PIPING CLASS SHEETS

V. 150# (MANUFACTURER'S RATING)

SECOND LETTER - MATERIAL

A. ALLOY STEEL

B. CARBON STEEL

C. AUSTENITIC STAINLESS STEEL

D. COPPER, BRASS or BRONZE

E. ALUMINUM

I. CARBON STEEL - COPPER BEARING

G. CARBON STEEL - SARAN LINED

H. CAST IRON

K. PVC

M. DURIUM

N. CARBON STEEL - GALVANIZED

P. CAST IRON - CEMENT LINED

R. CARBON STEEL - EPOXY LINED

S. DUCTILE IRON - CEMENT LINED

T. DELETED

V. FRP

W. CARBON STEEL - TEFLON LINED

THIRD LETTER - APPLICABLE CODES

A. NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 1

B. NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 2

C. NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 3

D. POWER PIPING CODE, ANSI B31.1

F. NATIONAL FIRE PROTECTION ASSOCIATION CODE

G. SOUTHERN STANDARD PLUMBING CODE

H. POWER BOILERS, ASME BBPV CODE, SECTION I

J. AMERICAN WATER WORKS ASSOCIATION STANDARDS

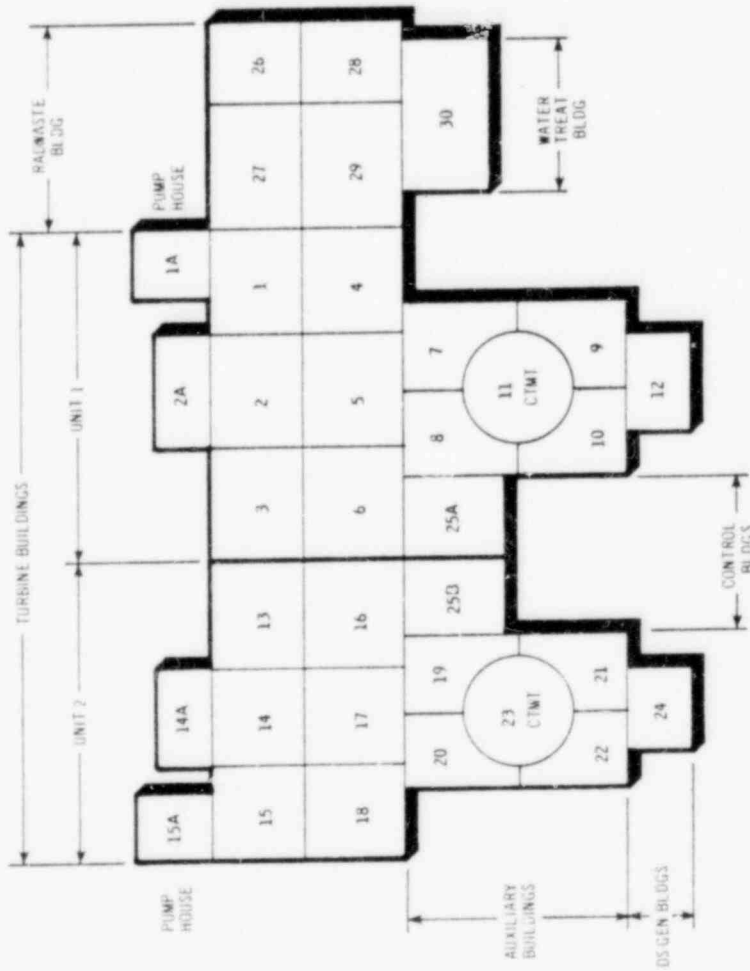
Z. FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3. DESIGNED PER ANSI B31.1.
N-STAMPING, SEISMIC ANALYSIS AND Q-LISTING ARE
NOT REQUIRED.

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SCALE NONE	JOB NO. JB-1	TITLE LETTER CODE FOR PIPING		GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA	
CONTRACT NO. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT		DRAWING NO. 35IN7980006	REV. A
MADE FOR MISSISSIPPI POWER & LIGHT CO.				SHEET NO. 3 OF 3	



GRAND GULF NUCLEAR STATION UNITS 1 AND 2

PORT GIBSON, MISSISSIPPI
MISSISSIPPI POWER & LIGHT COMPANY

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SCALE	JOB NO.	TITLE	GENERAL ELECTRIC
NONE	JB-1	KEY PLAN	NUCLEAR SERVICE OPERATION
CONTRACT NO.	360N74002	AREA LOCATIONS	INSTALLATION & SERVICE ENGINEERING DIV.
MADE FOR	MISSISSIPPI POWER & LIGHT	PROJECT	ATLANTA, GEORGIA
		GRAND GULF NUCLEAR PLANT	DRAWING NO.
			35IN 8030007
			REV.
			A

INDEX TO ISOS FOR E-12 SYSTEM

COMPOSITE: RH-0-1	REV
ISOS: RH-7-2	A
RH-7-3	A
RH-7-4	A
RH-7-5	A
RH-8-9	A
RH-8-10	A
RH-8-11	A
RH-8-12	A
RH-8-13	A
RH-11-1	A
RH-100	A

COMPOSITE: RH-0-3	A
ISOS: RH-10-1	A
RH-10-2	A
RH-10-3	A
RH-10-4	A
RH-10-5	A
RH-11-5	A
RH-11-6	A
RH-11-7	A
RH-11-8	A

COMPOSITE: RH-0-2A	REV
ISOS: RH-7-1	A
RH-7-6	A
RH-7-7	A
RH-7-8	A
RH-7-9	A
RH-7-10	A
RH-7-11	A
RH-7-12	A
RH-7-13	A
RH-7-14	A
RH-7-15	A
RH-7-16	A
RH-7-17	A
RH-7-18	A
RH-7-19	A
RH-7-20	A
RH-7-21	A
RH-7-24	A
RH-7-25	A
RH-7-26	A
RH-8-1	A
RH-8-2	A
RH-8-6	A
RH-101	A

COMPOSITE: RH-0-2B	REV
ISOS: RH-8-3	A
RH-8-4	A
RH-8-5	A
RH-8-7	A
RH-8-8	A
RH-8-14	A
RH-8-15	A
RH-8-16	A
RH-8-17	A
RH-8-18	A
RH-8-19	A
RH-8-20	A
RH-8-21	A
RH-8-22	A
RH-8-23	A
RH-8-24	A
RH-8-25	A
RH-8-26	A
RH-8-27	A
RH-8-28	A
RH-8-29	A

COMPOSITE: RH-0-2C	REV
ISOS: RH-11-2	A
RH-11-3	A
RH-11-9	A
RH-11-12	A
RH-11-13	A
RH-11-14	A
RH-11-15	A
RH-11-16	A
RH-11-20	A

COMPOSITE: RH-0-2D	REV
ISOS: RH-11-4	A
RH-11-10	A
RH-11-11	A
RH-11-17	A
RH-11-18	A
RH-11-19	A
RH-11-21	A

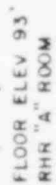
COMPOSITE: RH-0-4	A
ISOS: RH-7-22	A
RH-7-23	A
RH-8-30	A
RH-8-31	A

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REV A
DATE 11-1-68



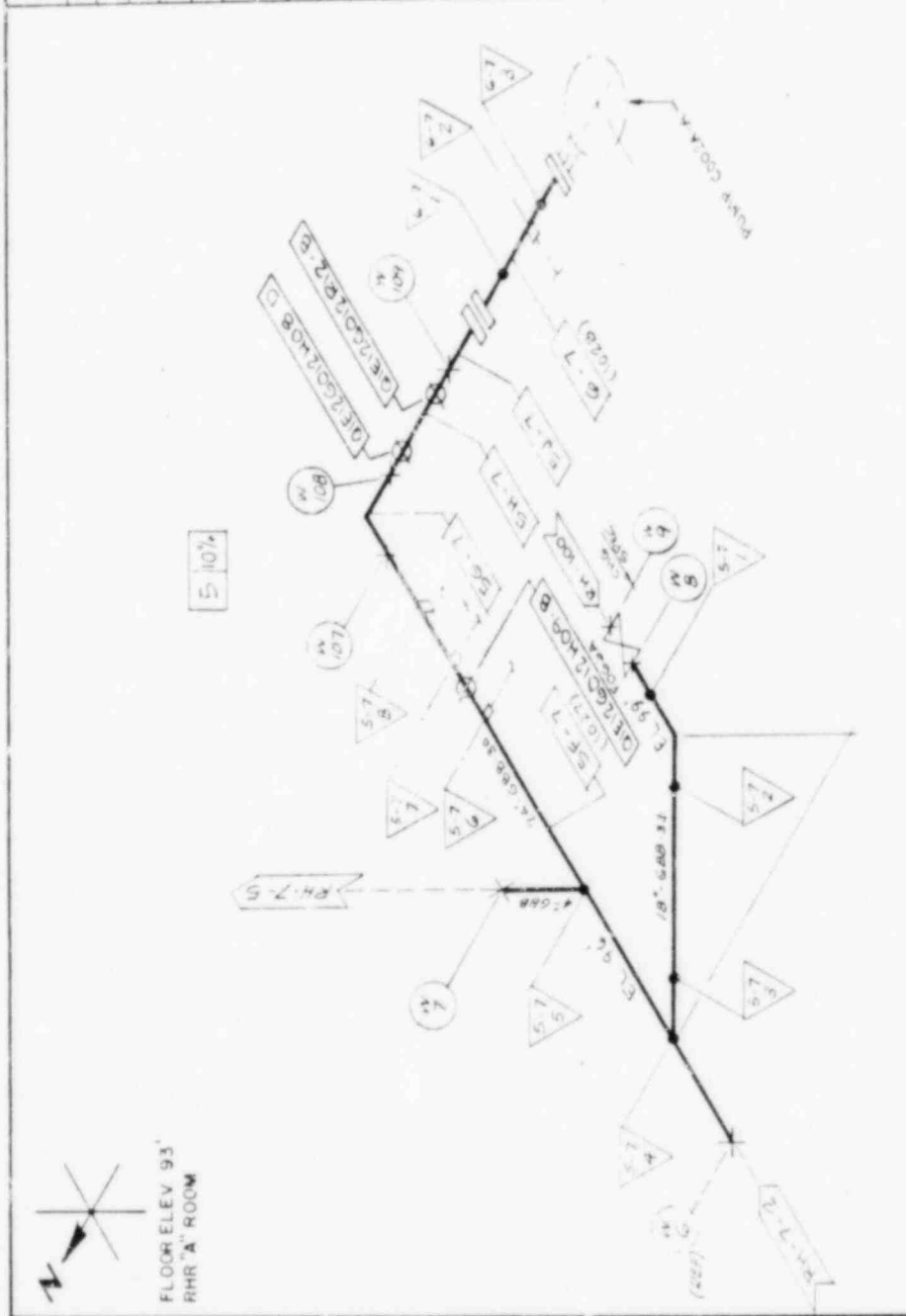
PROJECT MPAL GG-1 (JB-1)		MADE BY S GRAUS		 GENERAL ELECTRIC	12	8
LOCATION AUX BLDG		REF ID M-1085B			12	8
SYSTEM R H R		PAGE 101				

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GENERAL ELECTRIC

PROJECT	MPAL GG-1 (JB-1)	
SYSTEM	LOCATION	REP USE
RHR	AUX BLDG	M-13-6A

2H-O-1



10

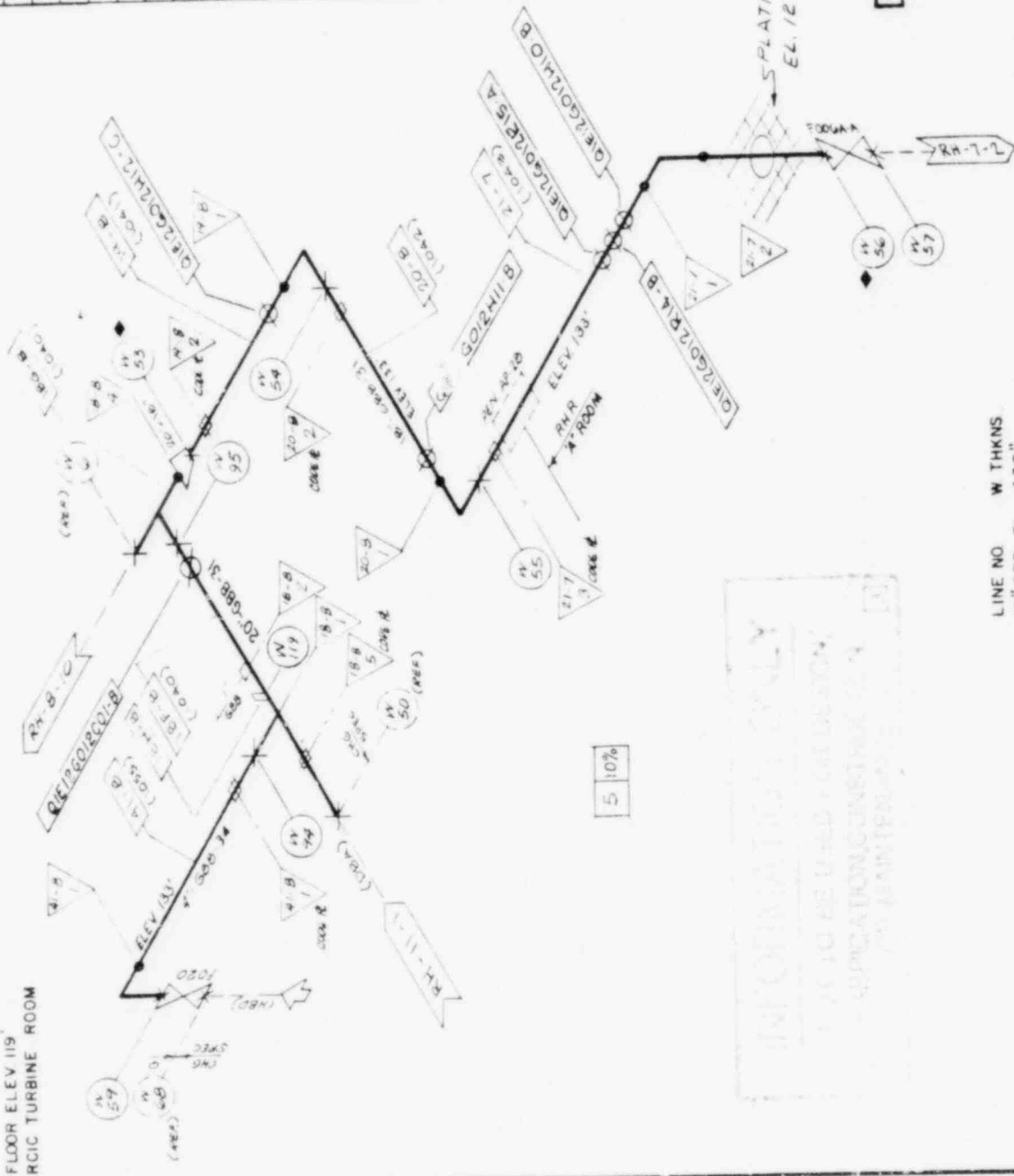
ORIGINAL COPY WHEN THIS IMPLANT IN RED 3

ORIGINAL COPY WHEN THIS IMPRINT IN RED	GENERAL ELECTRIC	8-729																		
<table border="1"> <tr> <td>PRODUCT</td> <td>LOCATION</td> <td>DATE</td> </tr> <tr> <td>MPBL GG-1 (JB-1)</td> <td>AUX BLDG</td> <td>M-13484</td> </tr> </table>	PRODUCT	LOCATION	DATE	MPBL GG-1 (JB-1)	AUX BLDG	M-13484	<table border="1"> <tr> <td>DATE</td> <td>TIME</td> <td>BY</td> </tr> <tr> <td>06-07-79</td> <td>5:00 PM</td> <td>SKM-1593</td> </tr> </table>	DATE	TIME	BY	06-07-79	5:00 PM	SKM-1593	<table border="1"> <tr> <td>DATE</td> <td>TIME</td> <td>BY</td> </tr> <tr> <td>06-07-79</td> <td>5:00 PM</td> <td>SKM-1593</td> </tr> </table>	DATE	TIME	BY	06-07-79	5:00 PM	SKM-1593
PRODUCT	LOCATION	DATE																		
MPBL GG-1 (JB-1)	AUX BLDG	M-13484																		
DATE	TIME	BY																		
06-07-79	5:00 PM	SKM-1593																		
DATE	TIME	BY																		
06-07-79	5:00 PM	SKM-1593																		
	163E-N50 WILKINA	4																		





FLOOR ELEV 119'
RCIC TURBINE ROOM



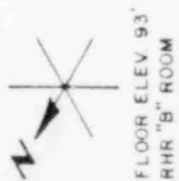
WELD NO	WELD DESCR	CODE CAT	TYPE EXPL	EXAM TIME PERIOD	ACCESS SATIS	10 MAX COM
W-53	"C"	CF	UT	08-30-79	YES	YES
W-56	"G"	CF	UT	08-30-79	YES	YES
W-53	"C"	CF	MT	02-10-81	YES	YES
W-56	"G"	CF	MT	02-11-81	YES	YES
H12-C	HANGER	CE	VT		N/A	N/A
H15-A	HANGER	CE	VT		N/A	N/A
H14-B	HANGER	CE	VT		N/A	N/A
H10-B	HANGER	CE	VT		N/A	N/A
H11-B	HANGER	CE	VT		N/A	N/A

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PROJECT		GENERAL ELECTRIC	
MP&L	GG-1	(JB-1)	
SYSTEM	LOCATION	REF Dwg	MADE BY
R.H.R.	AUX BLDG	M-1348A	08-03-79
			S.G.S.
			REF Dwg
			M-1085B
			SK-M-1593
			PAGE 1 of 1

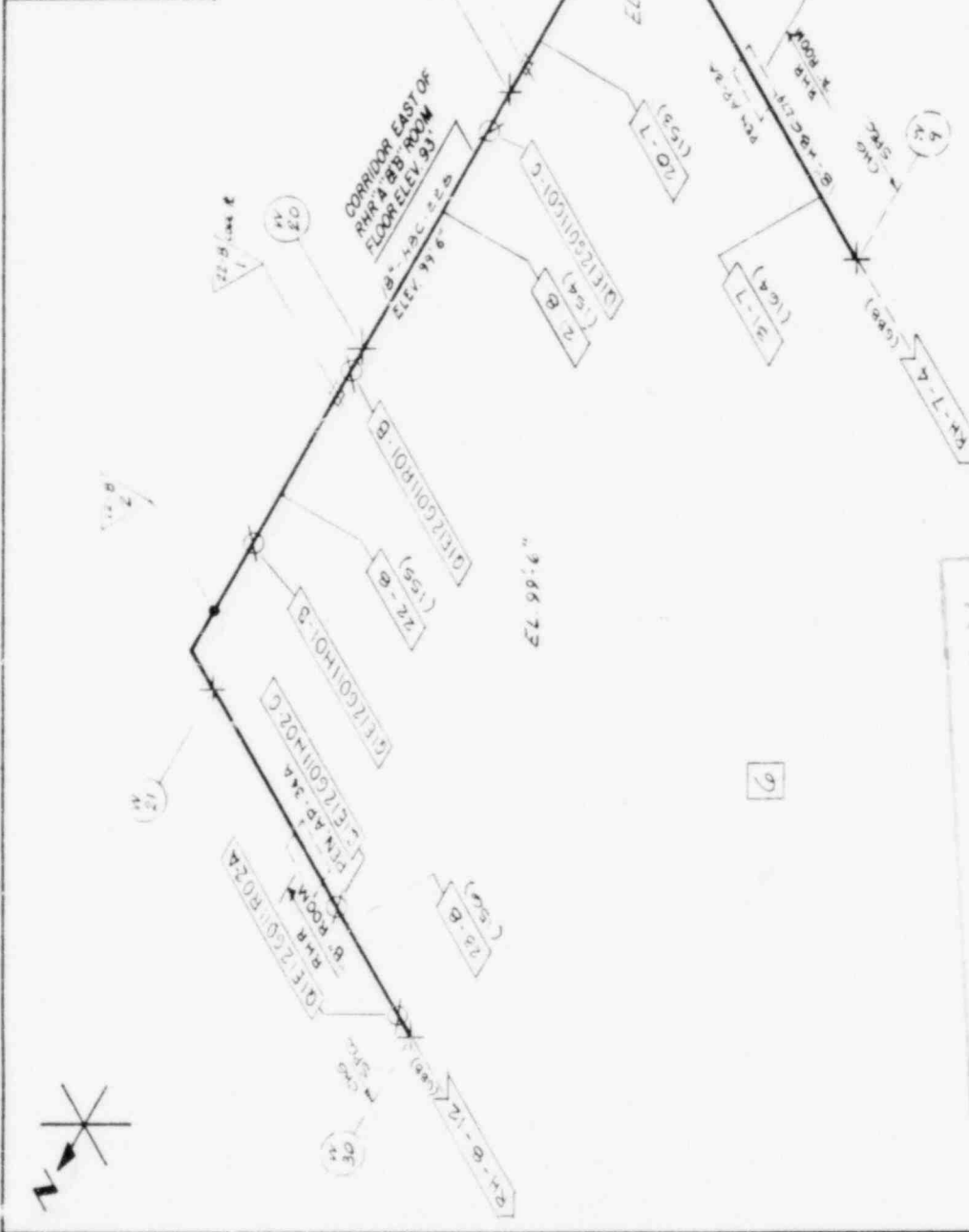
LINE NO. W THKNS
18" GBB-31 438"



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

PROJECT MP8AL	LOCATION AUX BLDG	REF URG		M-348B	M-1085A	IMPROV NO RH-B	BASE - NSO ATLANTA	72-11-10
		(JB-1)						
SYSTEM R H R		GENERAL		ELECTRIC		72-11-10		13

MPBL NO	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS BASIS	IS MARK COMP
1E129011						
COI-C	HANGER	DC	VT			N/A
ROI-B	HANGER	DC	VT			N/A
HOI-B	HANGER	DC	VT			N/A
HOI-C	HANGER	DC	VT			N/A
ROI-A	HANGER	DC	VT			N/A



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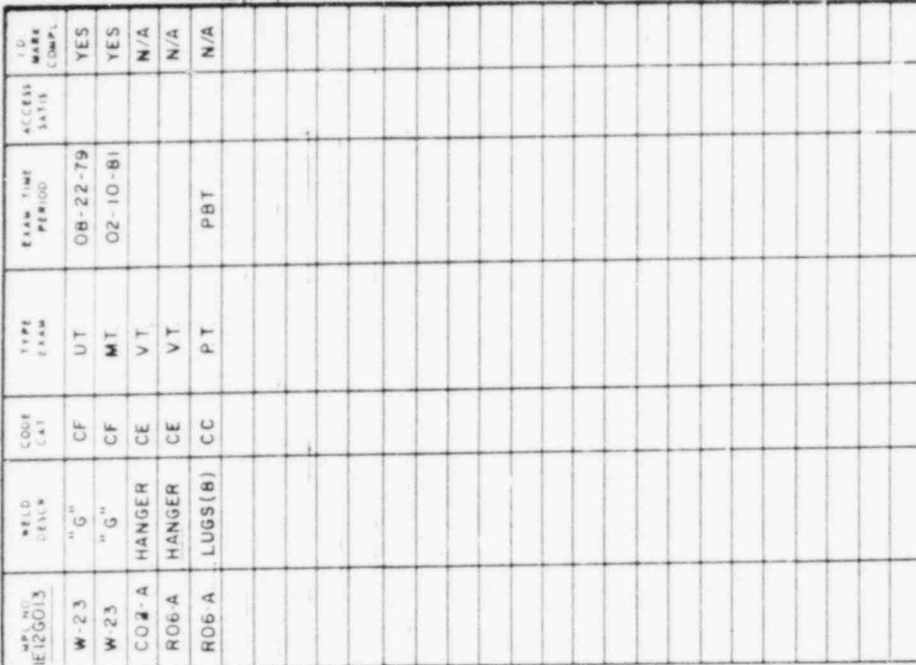
PROJECT	MPBL	GG-1	(JB-1)	MADE BY	IBSE NSO	ATLANTA
SYSTEM	RHR	AUX ELDG	M-135HJ	REF DWG	M-1085A	RH-100
LOCATION				REF DWG NO	SK-M-1593	PAGE 1 of 1

RH-0-1



ORIGINAL COPY WHEN THIS IMPRINT IN RED		MPBL		GG-1 (JB-1)		Date 04-19-77		IBSE NSO	
SYSTEM		LOCATION		REF. 180		S.G. RAUS		ATLANTA	
RHYTHM FROM		AUX BLDG		M-1348D		REF. PAID		DWS NS	
HT EX. 2A						ME-1085B		RH-7	
						SK-N-1593		PAGE 1 of 1	

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GENERAL ELECTRIC

PROJECT	MPBL GG - 1 (JB-1)	
SYSTEM	LOCATION	REF DWG
R H R	AUX BLDG	M 1348D

MADE BY 08-14-79 S. GRAUS	185E-NSO ATLANTA	DATE 6
REP NO M-1085B	185C-NSO RH-7	DATE 6
SK-M-1593 PAGE 1 of 1		

2" DBB-72 844"

CAL STANDARD 1.00-15

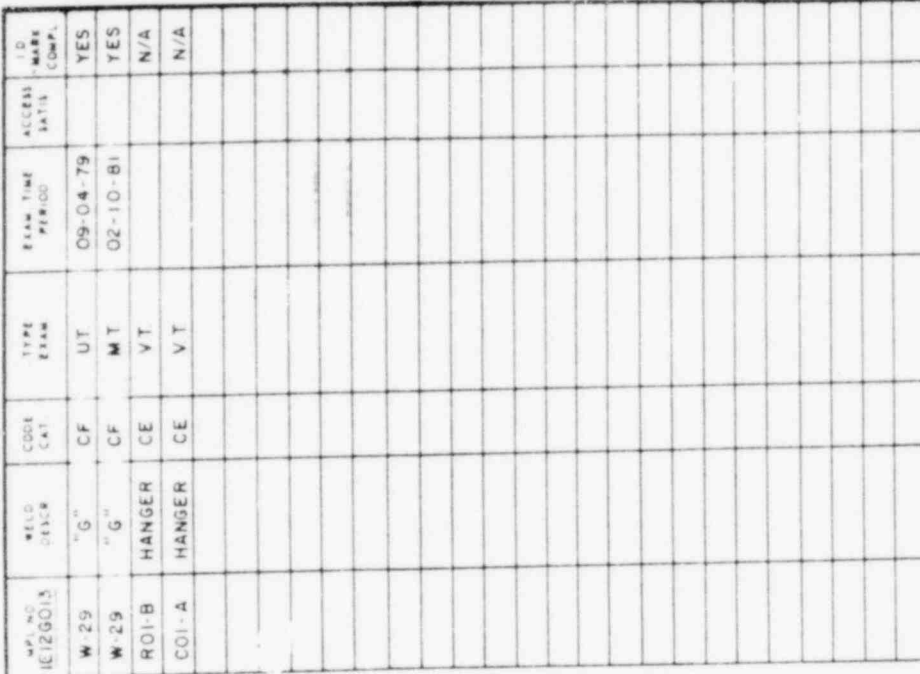


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GENERAL ELECTRIC

PROJECT	MP&L	GG-1	(JB-1)
SYSTEM	RHR	AUX. BLDG	REF. DRG. M-1348D

RH-0-2A



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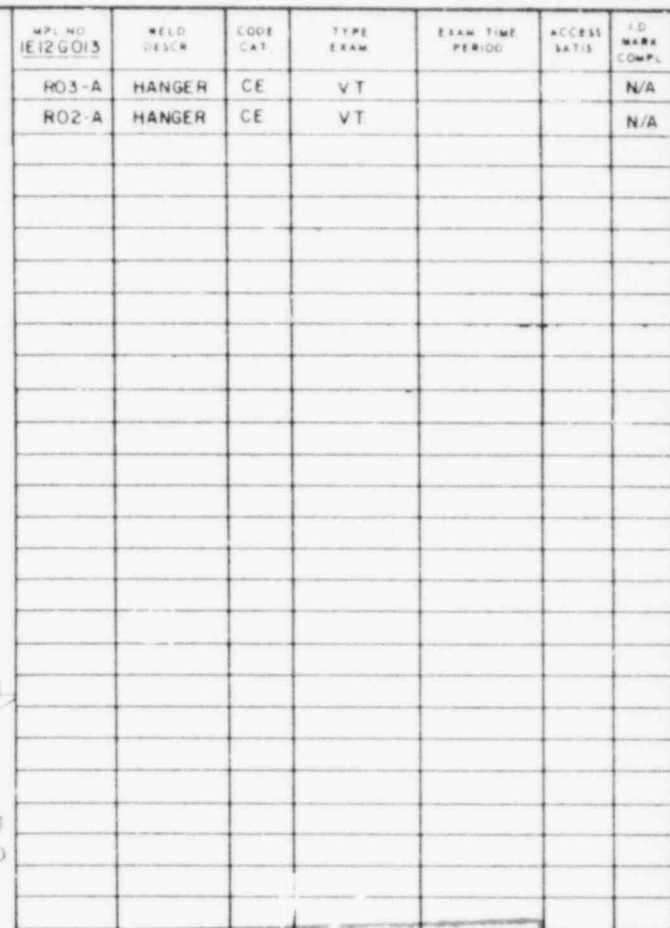
GENERAL ELECTRIC

PROJECT	MP8L	66-1 (JB-1)	MADE BY G. J. S. GRAUS	BASE-N2O ATLANTA	NO
SYSTEM	RHR	AUX BLDG	REF NO M-1085B	RH-7	NO
			SKN-1593	PAGE 1 of 1	10

RH-0-2 A

LINE NO.	WIDTHS
18" GBB-51	438"

CAL STANDARD 10 • 39

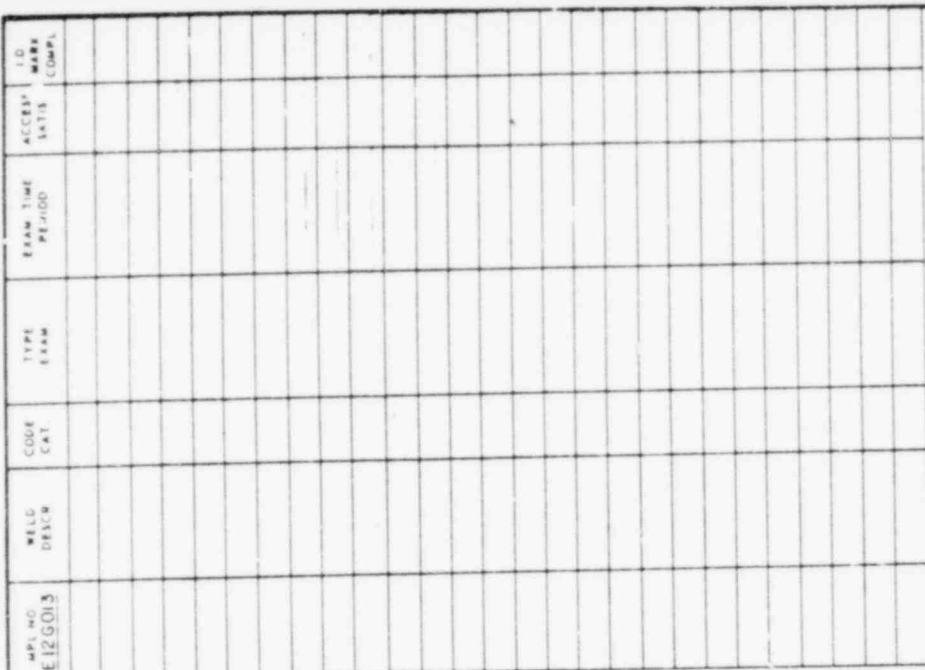


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GENERAL ELECTRIC

PROJECT MP&L GG-1 (JB-1)			MADE BY 08-15-79 S GRAUS		BASE - NSO ATLANTA		PAGE 1 OF 1		
SYSTEM R H R		LOCATION AUX BLDG		REF CNG M-1348D		REF PAID M-1085B SK-M-1593		ISS DNG NO RH-7 PAGE 1 of 1	
								SH NO 11	

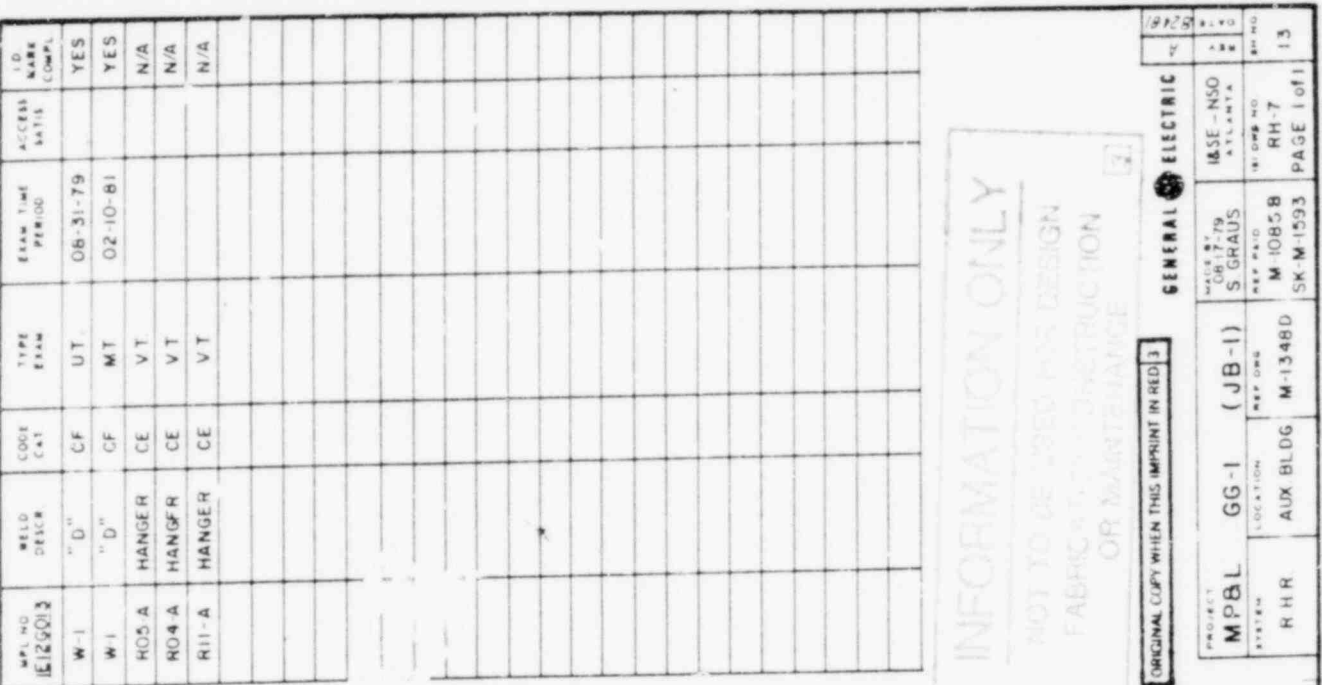
RH-O-2A

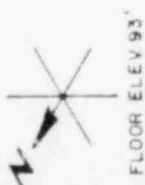


NOT TO BE USED FOR DESIGN,
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OR MAINTENANCE

GENERAL ELECTRIC

RH-0-2A





RH-O-2A

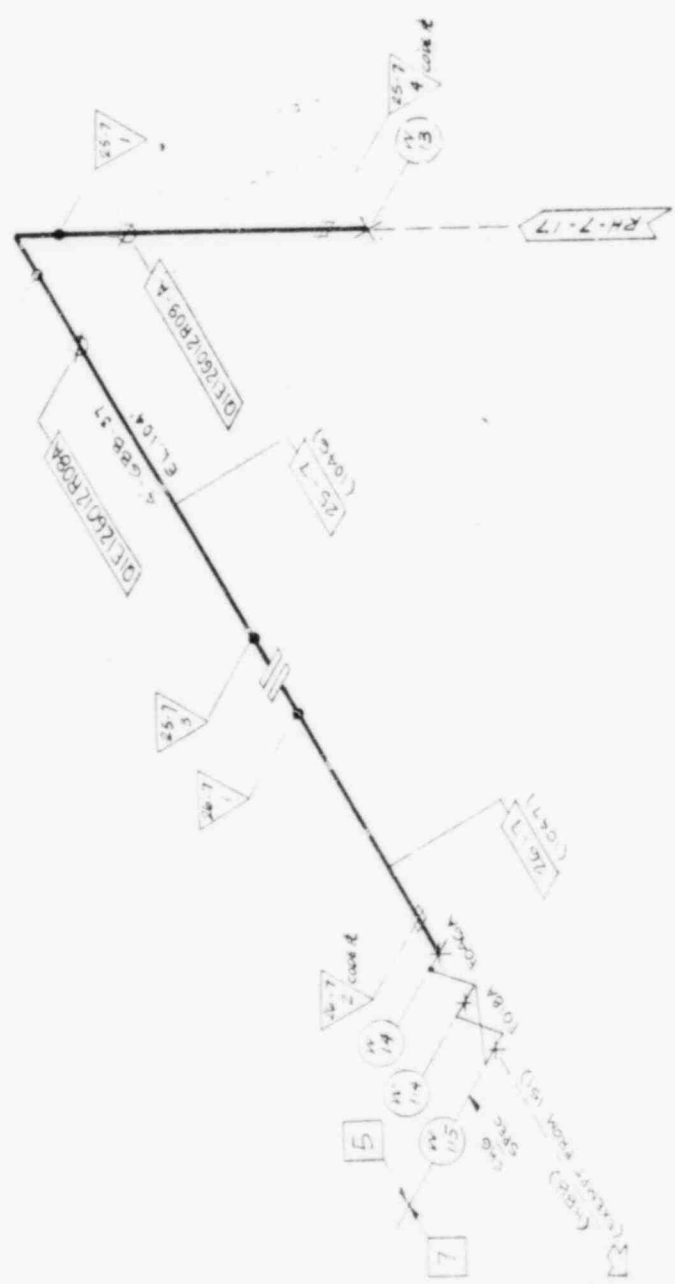


ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

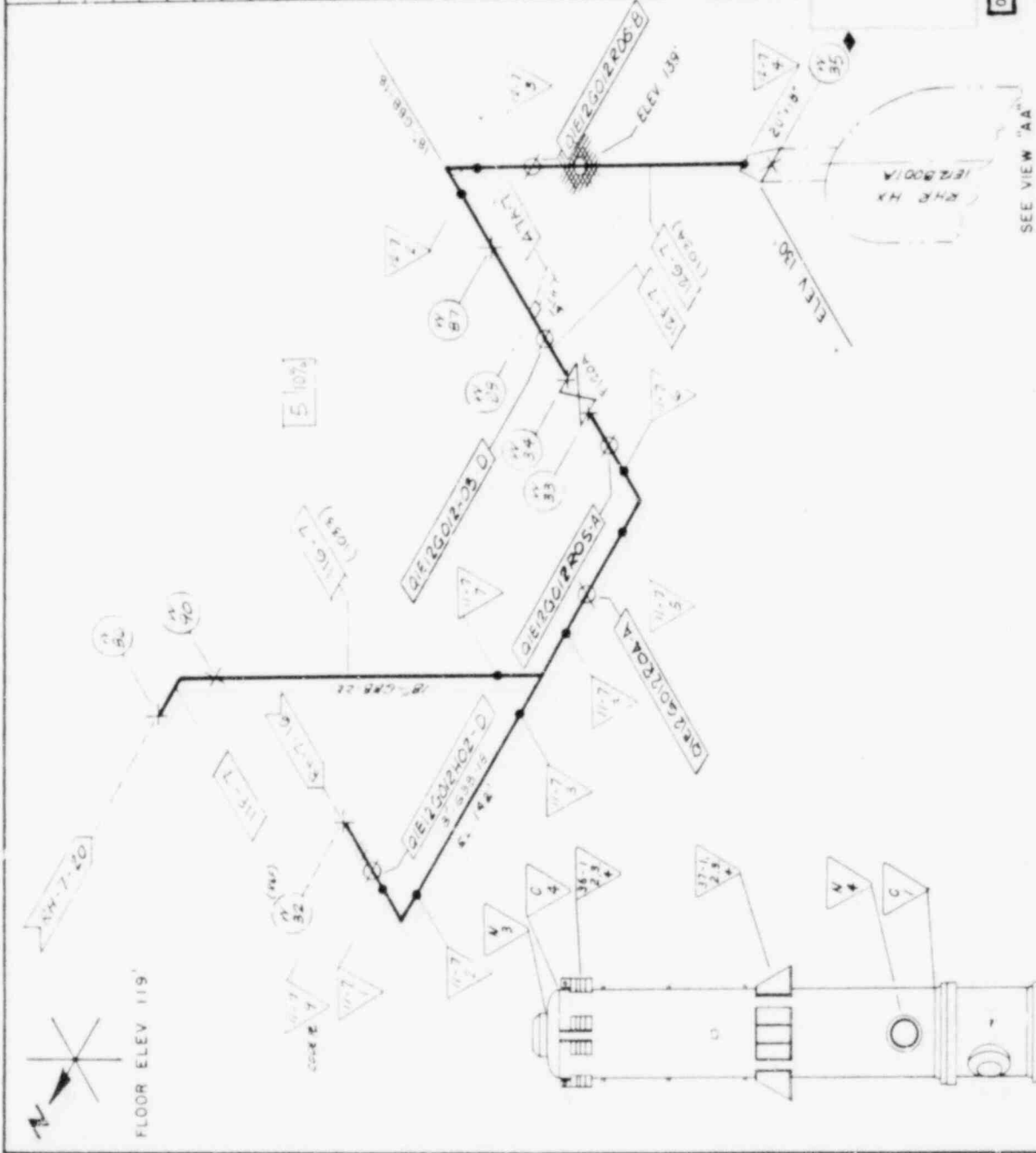
PROJECT	MP&L	GG-1	(JB-1)
SUBSYSTEM	R.H.R.	AUX BLDG	M-1348A
LOCATION	M&P Bldg		

RH-O-2A



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3		GENERAL ELECTRIC		<table border="1"> <tr> <td>DATE</td> <td>BY</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> </table>		DATE	BY	10-20-79	ARM	10-20-79	ARM
DATE	BY										
10-20-79	ARM										
10-20-79	ARM										
PROJECT	MPBL	GG-1	(JB-1)	DATE BY	10-20-79						
SYSTEM	R H R	AUX. BLDG	REF DWS	10-20-79	ARM						
LOCATION		<table border="1"> <tr> <td>DATE</td> <td>BY</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> </table>				DATE	BY	10-20-79	ARM	10-20-79	ARM
DATE	BY										
10-20-79	ARM										
10-20-79	ARM										
AUX. BLDG		<table border="1"> <tr> <td>DATE</td> <td>BY</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> </table>				DATE	BY	10-20-79	ARM	10-20-79	ARM
DATE	BY										
10-20-79	ARM										
10-20-79	ARM										
M-1348A		<table border="1"> <tr> <td>DATE</td> <td>BY</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> </table>				DATE	BY	10-20-79	ARM	10-20-79	ARM
DATE	BY										
10-20-79	ARM										
10-20-79	ARM										
M-1085B		<table border="1"> <tr> <td>DATE</td> <td>BY</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> </table>				DATE	BY	10-20-79	ARM	10-20-79	ARM
DATE	BY										
10-20-79	ARM										
10-20-79	ARM										
SK M-1593		<table border="1"> <tr> <td>DATE</td> <td>BY</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> </table>				DATE	BY	10-20-79	ARM	10-20-79	ARM
DATE	BY										
10-20-79	ARM										
10-20-79	ARM										
PAGE 101		<table border="1"> <tr> <td>DATE</td> <td>BY</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> <tr> <td>10-20-79</td> <td>ARM</td> </tr> </table>				DATE	BY	10-20-79	ARM	10-20-79	ARM
DATE	BY										
10-20-79	ARM										
10-20-79	ARM										

WFL NO	WFL DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	IS MAKE COMPL
1E25012						
W-35	" D"	CF	UT	08-31-79		YES
W-35	" D"	CF	MT	02-11-81		YES
RO5-A	HANGER	CE	VT			N/A
RO4-A	HANGER	CE	VT			N/A
37-1,2,3,4	HT EX	CC	MT	EFCI		
36-1,2,3,4	HT EX	CC	MT	EFCI		
N-4	HT EX	CB	MT			
C-1	HT EX	CA	UT	EFCI		
C-4	HT EX	CA	UT	EFCI		
N-3	HT EX	CB	UT	EFCI		
N-4	HT EX	CB	UT	EFCI		
N-3	HT EX	CB	MT			



INFORMATION ONLY
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 SEE VIEW "AA"

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT: MP&L GG-1 (JB-1) LOCATION: AUX BLDG M-1348A

DESIGN: S GRAUS M-1085B

DATE: 08-31-79

REVISION: SK-M-1593

PAGE 1 of 1

LINE NO. WITHKNS.
 18" GBB-22 438"
 18" GBB-18 439"

RH-0-2A

CAL STANDARD I.D. 40



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MPBL	GG-1 (JB-1)	MADE BY JBI-2179 S GRAUS	BASE - INSO ATLANTA	DATE 12-80
SYSTEM	R H R	LOCATION AUX BLDG	REP DESIG M-1085B M-1347A	REV DESIG RH-7	REVISION 20
				PAGE 1 of 1	

RH-0-2A



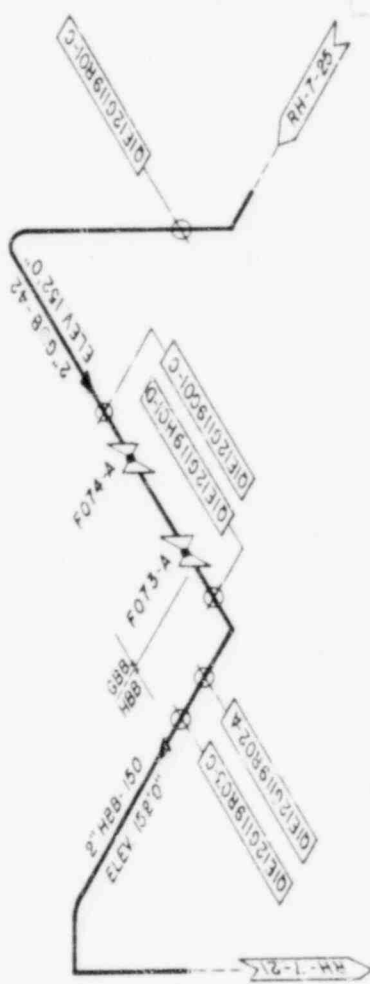
FLOOR ELEV 139'
PIPING PENETRATION ROOM
SOUTH OF STEAM TUNNEL

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FABRICATION/CONSTRUCTION,
OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

PROJECT MPBL	LOCATION AUX BLDG	REF DWG M-1348J	MADE BY OB-20-79 S GAUS	ISSUED BY M-1085B RH-7	GENERAL ELECTRIC
SYSTEM R ₁ R			DEP PAID	ISSUED NO. SK M-1593	21

RH-O-2A

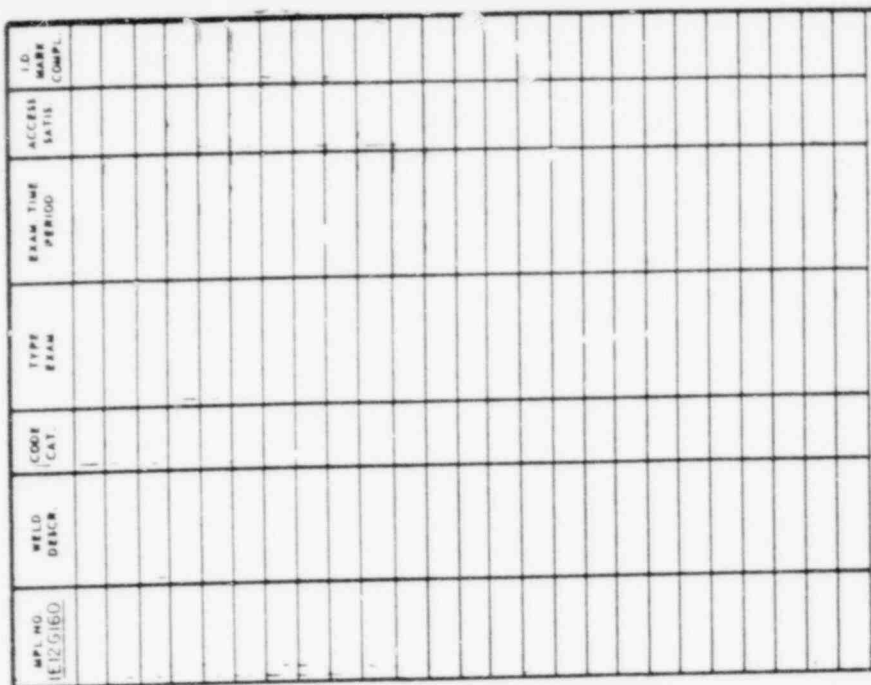
[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MP9L	GG-1 (JB-1)	TOBAY R DILL	MSE-N50 SYLANA	24
SYSTEM	R R R	AUX 8LCG	REF #10 M1085 B	RR-7 PAGE 1 of 1	
		LOCATION	REF DES	REF NO	
		NF-1548 J			
		PS-S-1085B			
		G095			

RH-0-2A

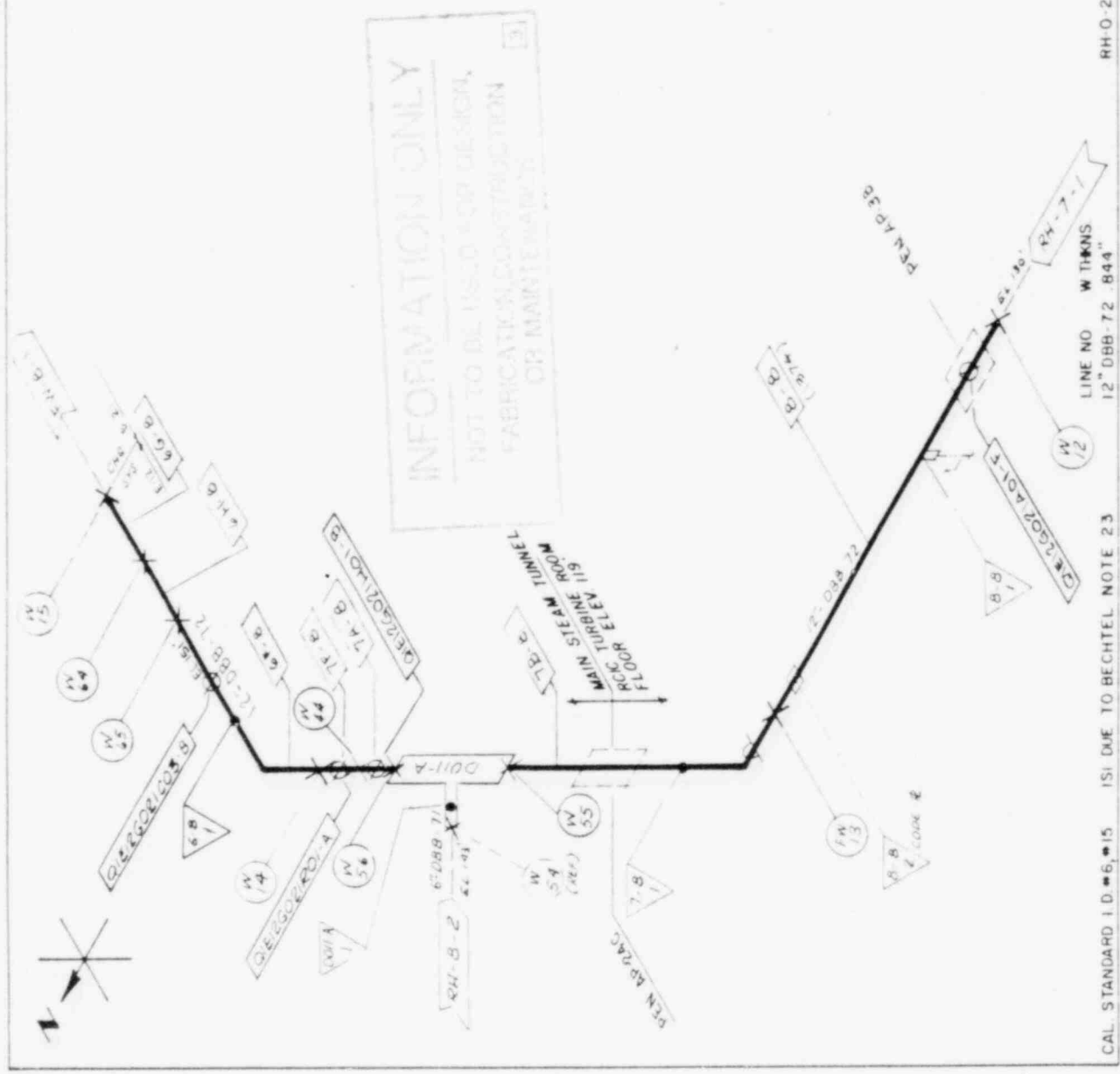


PROJECT MPAL		LOCATION AUX BLDG		REP ORG M-1348J FSK S-1085B CITY B		DATE BY 7/17/81 R DILL		ISSUE - NSO ATLANTA		BY A M		DATE 7/20/81	
SYSTEM R H R		GG-1		(JB-1)		REP PROJ M 1085B		RH-7		PAGE 1 of 1		25	
GENERAL ELECTRIC													

ORIGINAL COPY WHEN THIS IMPRINT IS MADE

GENERAL ELECTRIC

RH-O-2A



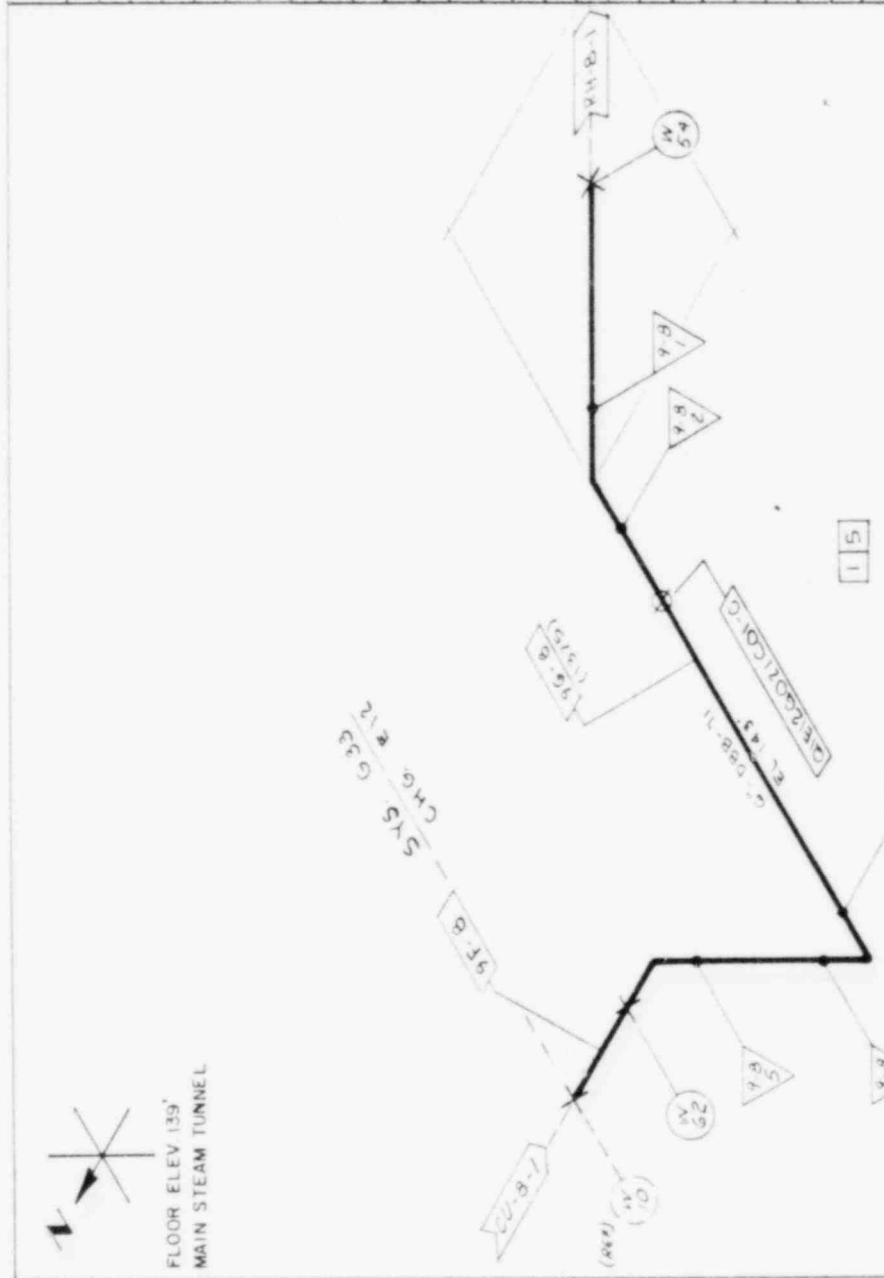
MPBL	WELD	CODE	TYPE	EXAM	EXAM	ACCESS	ID
1812 G021	DESCR	CAT	EXAM	PERIOD	SATIS	WARR	COMP
W-12	"C"	CF	UT	06-06-80		YES	YES
W-13	"C"	CF	UT	06-19-80		YES	YES
7-8-1	"C"	CF	UT	06-19-80		YES	YES
W-55	"C"	CF	UT	06-06-80		YES	YES
W-56	"C"	CF	UT	06-06-80		YES	YES
W-44	"C"	CF	UT	06-06-80		YES	YES
W-14	"C"	CF	UT	07-16-79		YES	YES
6-8-1	"C"	CF	UT	06-06-80		YES	YES
W-65	"E"	CF	UT	06-06-80		YES	YES
W-64	"E"	CF	UT	06-06-80		YES	YES
W-15	"C"	CF	UT	06-06-80		YES	YES
W-12	"C"	CF	MT	02-11-81		YES	YES
W-13	"C"	CF	MT	02-11-81		YES	YES
7-8-1	"C"	CF	MT	02-11-81		YES	YES
W-55	"C"	CF	MT	02-11-81		YES	YES
W-56	"C"	CF	MT	02-11-81		YES	YES
W-44	"C"	CF	MT	02-17-81		YES	YES
W-14	"C"	CF	MT	02-17-81		YES	YES
6-8-1	"C"	CF	MT	02-17-81		YES	YES
W-65	"E"	CF	MT	02-17-81		YES	YES
W-64	"E"	CF	MT	02-17-81		YES	YES
W-15	"C"	CF	MT	02-17-81		YES	YES
AOI-F	HANGER	CE	VT			N/A	N/A
HOI-B	HANGER	CE	VT			N/A	N/A
ROI-A	HANGER	CE	VT			N/A	N/A
CO3-B	HANGER	CE	VT			N/A	N/A
DOII A-1	"J"	CF	MT	07-27-81		YES	YES

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MPBL	GG-1	(JB-1)	IBSE NSO
SYSTEM	LOCATION	REF ISO	ATLANTA
RHR RETURN	STM TUN	M-1328K	DWG N° RH-8
FROM RWCU			PAGE 1041

SK-M 1593

WPL NO (E12 502)	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMP
W 62	"C"	CF	UT	06-05-80		YES
9 8-5	"C"	CF	UT	06-05-80		YES
9 8-4	"C"	CF	UT	06-05-80		YES
9 8-3	"C"	CF	UT	06-05-80		YES
9 8-2	"C"	CF	UT	06-05-80		YES
9 8-1	"C"	CF	UT	06-05-80		YES
W 54	"C"	CF	UT	06-05-80		YES
W 62	"C"	CF	UT	06-05-80		YES
9 8-5	"C"	CF	MT	02-11-81		YES
9 8-4	"C"	CF	MT	02-11-81		YES
9 8-3	"C"	CF	MT	02-11-81		YES
9 8-2	"C"	CF	MT	02-11-81		YES
9 8-1	"C"	CF	MT	02-11-81		YES
W 54	"C"	CF	MT	02-11-81		YES
COI-C	HANGER	CE	VT			N/A



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 07-1-1980

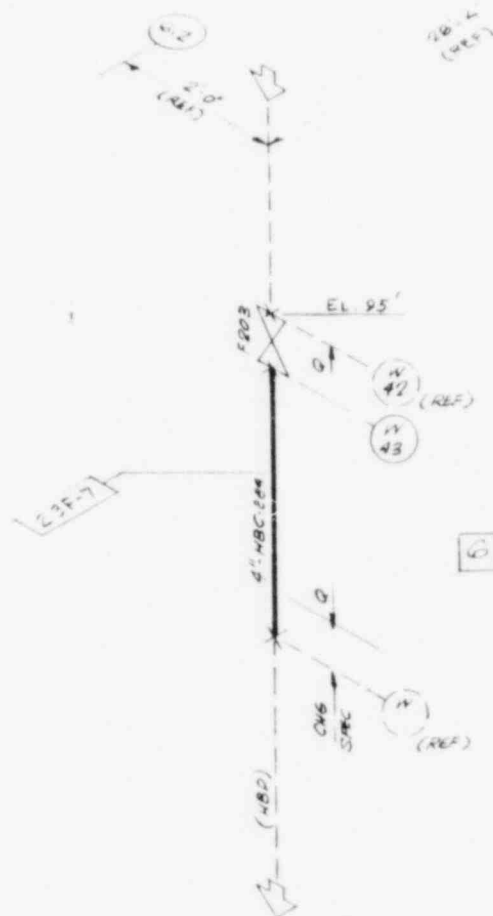
ORIGINAL COPY WHEN THIS IMPRINT IN RED

MPBL	GG-1	(JB-1)	DATE	ISSUE NO	ATLANTA
SYSTEM	LOCATION	REP NO	DATE	DATE	DATE
RHR RET-10N	STM TUN	M-1328K	M-1085B	RH-B	RH-B
FROM RWCU			SK-M-1593	PAGE 10/1	

LINE NO. WITHNS
 6" DBB-71 562"

CAL STANDARD I D #12

REF MFL NO.
1E12 6022



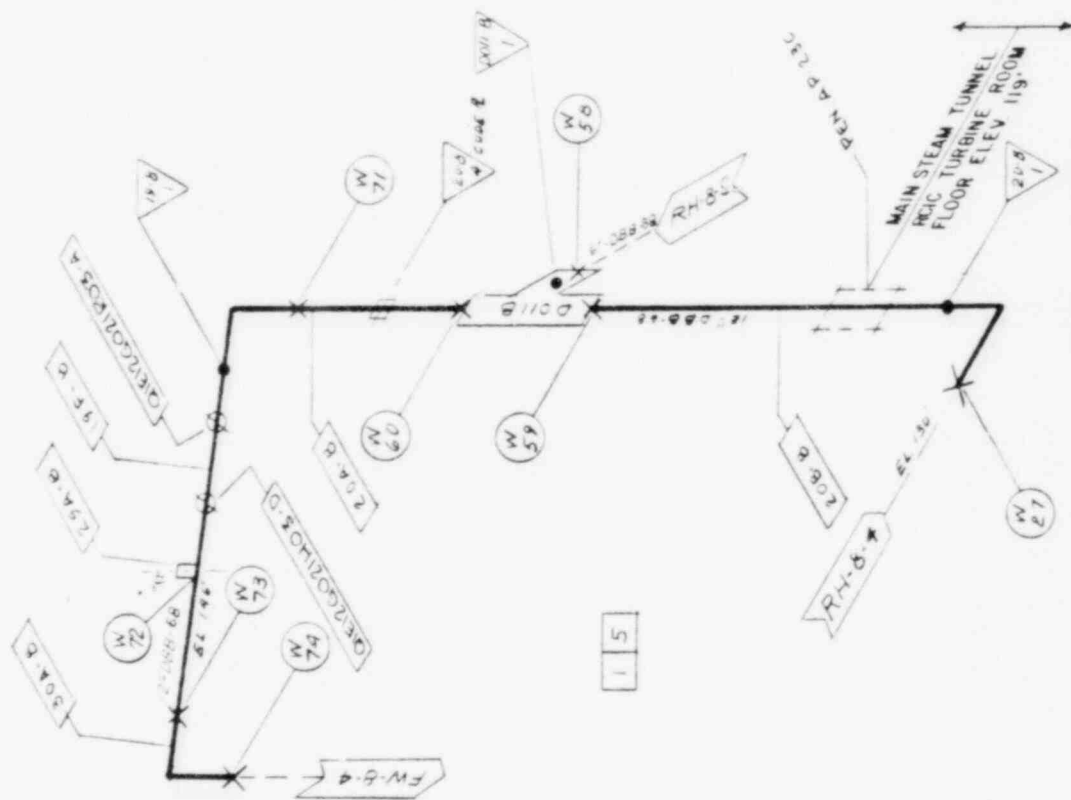
INFORMATION ONLY

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FABRICATION, CONSTRUCTION
OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

PROJECT			DRAWN		18 SE NSO		REV	DATE
MP&L GG-1 (JB-1)			08-22-79 S. GRAUS		ATLANTA			
SYSTEM	LOCATION	REF DWS	REF P&ID	131 DWS NO.				
R H R	AUX BLDG	M-1348L	M-1085B	RH-101				
			SK-M-1593	PAGE 1 of 1				

RH-O-2A

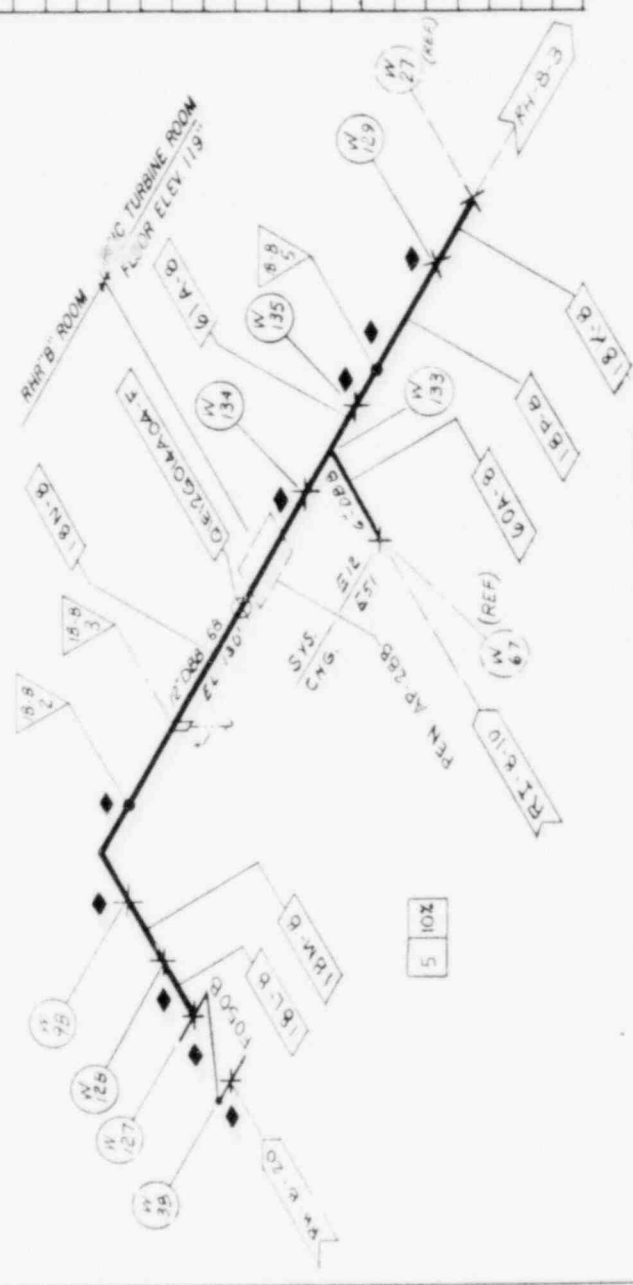
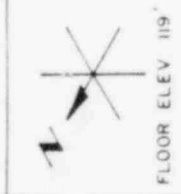


PROJECT	MP&L	GG-1	(JB-1)
SYSTEM	RAIL RE TURN		
LOCATION	STM. TUN		
FROM RWCU	M-1328K		

CAL. STANDARD I.D.#18, #12 ISI DUE TO BECHTEL NOTE 23

12" 088-6E 844"

RH-O-28



MPL NR IBIT 6014	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS STATUS	ID MARK COMP
W 3B	"G"	CF	UT	08-27-79		YES
W 127	"G"	CF	UT	06-28-80		YES
W 128	"G"	CF	UT	08-09-80		YES
W 9B	"C"	CF	UT	08-23-79		YES
IB-B-2	"C"	CF	UT	08-23-79		YES
W 134	"C"	CF	UT	08-09-80		YES
W 135	"C"	CF	UT	08-09-80		YES
IB-B-5	"E"	CF	UT	08-23-79		YES
W 129	"E"	CF	UT	08-09-80		YES
W 3B	"G"	CF	MT	02-18-81		YES
W 127	"G"	CF	MT	02-18-81		YES
W 128	"G"	CF	MT	02-18-81		YES
W 9B	"C"	CF	MT	02-18-81		YES
IB-B-2	"C"	CF	MT	02-18-81		YES
W 134	"C"	CF	MT	03-03-81		YES
W 135	"C"	CF	MT	03-03-81		YES
IB-B-5	"E"	CF	MT	03-03-81		YES
W 129	"E"	CF	MT	03-03-81		YES
A04 F HANGER		CE	VT			N/A

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MPAL	GG-1 (JB-1)		DWN.		IBSE NSO	DATE
SYSTEM	LOCATION	REF ISO	S GRAUS	ATLANTA	SHT	BY
RHR FROM	AUX BLDG	M-1348E	REF PAID	DWG-NB	4	
HT EX 2B			M-1085B	RH-NE	PAGE 1 of 1	
			SK-M-1593			

LINE NO.	W THKNS
8" DBB - 70	594"
8" DBB - 87	594"

CAL STANDARD 1 D-13

RM-0-28

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MP8L	GG-1	(JB-1)	DATE 05-12-79	BY S GAUS	18-3E-N50 ATLANTA	7
SYSTEM	RHR	LOCATION AUX BLDG.	REF ID# M-1347A	REF ID# M-1085A	REF ID# M-1593	18-DRG NO RH-8	PAGE 1 of 1
FROM RHC							



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MP&L	GG-1	(JB-1)	ISSUE NO. JUL-28-79	145E - NSO ATLANTA	REV NO. 1
SYSTEM	RHR	AUX BLDG	M-1348E	REF DWG	M-1085A RH-8	14
					SK-M 1593	PAGE 1 of 1

RH-0-28

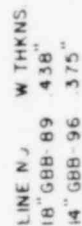


ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

ORIGINAL COPY WHEN THIS IMPRINT IN RED		GENERAL ELECTRIC		DATE	
PROJECT MPBL	WORK ORDER GG-1 (JB-1)	ORDER NO. G-23-79	BASE - NSO ATLANTA	REV NO 13	DATE 12-8-79
SYSTEM R H R	LOCATION AUX BLDG	REV DISC M-1085A	REV NO RH-8	REV NO 16	DATE 12-8-79
		REV DISC SKM-1593	REV NO PAGE 1 of 1		

[illegible]

PROJECT		MPBL GG-1 (JB-1)	
SYS NO	R H R	LOCATION	AUX BLDG
REF NO	M-1348E	REF NO	M-1348E
MADE BY		MADE BY	
OR 23-79		OR 23-79	
S. GRAUS		S. GRAUS	
ATLANTA		ATLANTA	
REF NO		REF NO	
M-1085A		M-1085A	
SK M-1593		SK M-1593	
PAGE 1 of 1		PAGE 1 of 1	



CAL STANDARD 1.0 = 32# 39

92-0-28

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PROJECT		MADE BY		GENERAL ELECTRIC	
MP&L		J. B. TO		14SE-NSO	
GG-1 (JB-1)		S. GAUS		ATLANTA	
SYSTEM		REF. NO.		REV. NO.	
R H R		M-1045A		RH-8	
AUX BLDG		SK-M 1593		PAGE 1 of 1	

GENERAL 8

[illegible]



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GENERAL ELECTRIC

PROJECT	GG-1 (JB-1)		MADE BY	DATE	BY
MPBL			UB 2779	08-27-79	
SYSTEM	LOCATION	EXP. NO.	REV. NO.	ISSUED NO.	ISSUED NO.
RHR	AUX BLDG	M-134BE	M-1085A	RH-B	21
			SK M-F 33	PAGE 1 of 1	

RM-0-28

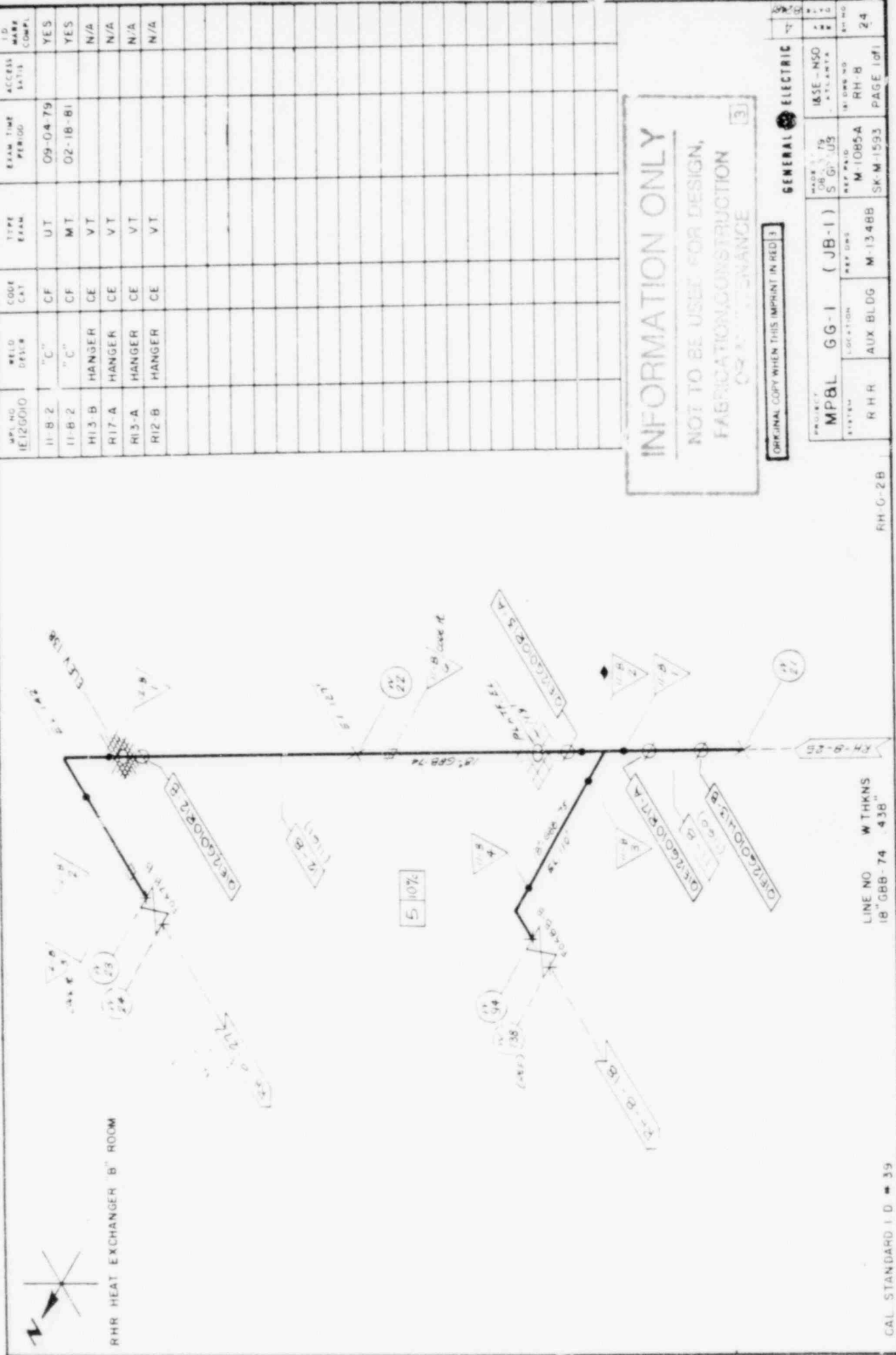


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GENERAL ELECTRIC

PROJECT	MP&L	GC-1	(JB-1)	MADE BY 08-27-79	18SE-N50	2
SUBJECT	MP&L	GC-1	(JB-1)	S GAUSS	ATLANTA	2
SYSTEM	RHR	AUX BLDG	M-1348E	M-1085A	RH-8	22
				REF NO	NO DPG NO	NO DPG
				SK M 1593	PAGE 1 of 1	

RH-0-28





ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

PROJECT MPBL		GG-1 (JB-1)		MADE IN SOUTH ATLANTA		CASE-NSO	
SYSTEM		LOCATION		REF DES		DRAWING	
RHR		AUX BLDG		M-1348B		RH-B	
				M-1085A		PAGE 1 of 1	
				SK M-1593			

RM-0-28

[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED

GENERAL

ELECTRIC

AUTHOR

MP8AL GG-1 (JB-1)

000000

24

PH-0-28

PAGE 1 OF 1

5651-M-KS

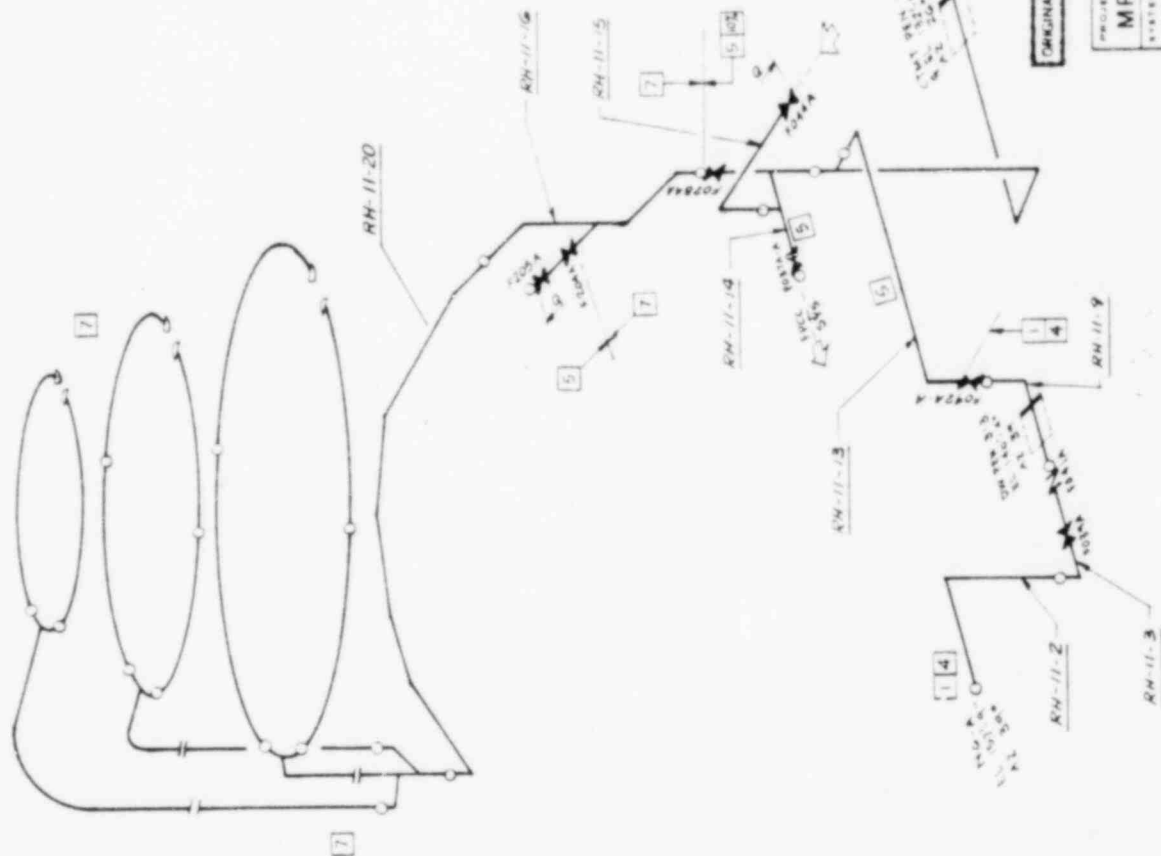
1003

[illegible]

1

RH-0-28

3



No. Pipe Spools	_____
No. Pipe Shop Welds	_____
No. Pipe Field Welds	_____
No. Hys. Restraints	_____
TOTAL NO. WELDS	_____

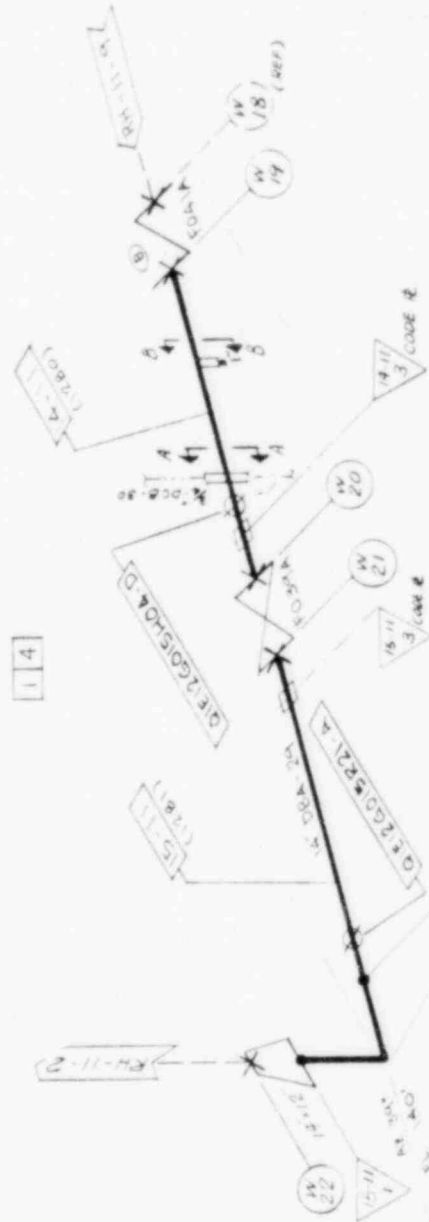
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GENERAL				ELECTRIC	
PROJECT	MPBL	GG-1	(JB-1)	MADE BY	185E - NSO
SYSTEM	RHR	LPCI	CTMT	DATE	02-28-79
CTMT SPRAY	CTMT	CTMT	CTMT	BY	ATLANTA
				REF NO.	M-1085
				REF NO.	M-1348F
				REF NO.	M-1348H
				REF NO.	SK M-1593
				REF NO.	RH-0
				REF NO.	2C
				REF NO.	PAGE 1 of 1



PARTIAL GRATING ELEV 135'
DRYWELL AREA



SECTION A-A



SECTION B-B

MPD. NR. 1812 6015	WELD DESCR.	CODE CAT.	TYPE BEAM	BEAM TIME PERIOD	ACCESS SATIS.	I.D. MARK CONAP
W-19	"G"	BJ	UT	09-07-79		YES
W-20	"G"	BJ	UT	09-07-79		YES
W-21	"G"	BJ	UT	09-07-79		YES
15-11-2	"C"	BJ	UT	09-07-79		YES
15-11-1	"C"	BJ	UT	09-07-79		YES
W-22	"C"	BJ	UT	09-12-79		YES
W-19	"G"	BJ	PT	PBT		YES
W-20	"G"	BJ	PT	PBT		YES
W-21	"G"	BJ	PT	PBT		YES
15-11-2	"C"	BJ	PT	TEXAS PIPE		YES
15-11-1	"C"	BJ	PT	TEXAS PIPE		YES
W-22	"C"	BJ	PT	TEXAS PIPE		YES
W-77	"H"	BJ	PT	PBT		YES
W-78	"H"	BJ	PT	PBT		YES
H04-D HANGER	BK-2		VT			N/A
R21-A HANGER	BK-2		VT			N/A
WELVE F04A	BOLTS(36)	B-G-2	VT	06-23-81		N/A

ORIGINAL COPY WHEN THIS IMPRINT IN RED

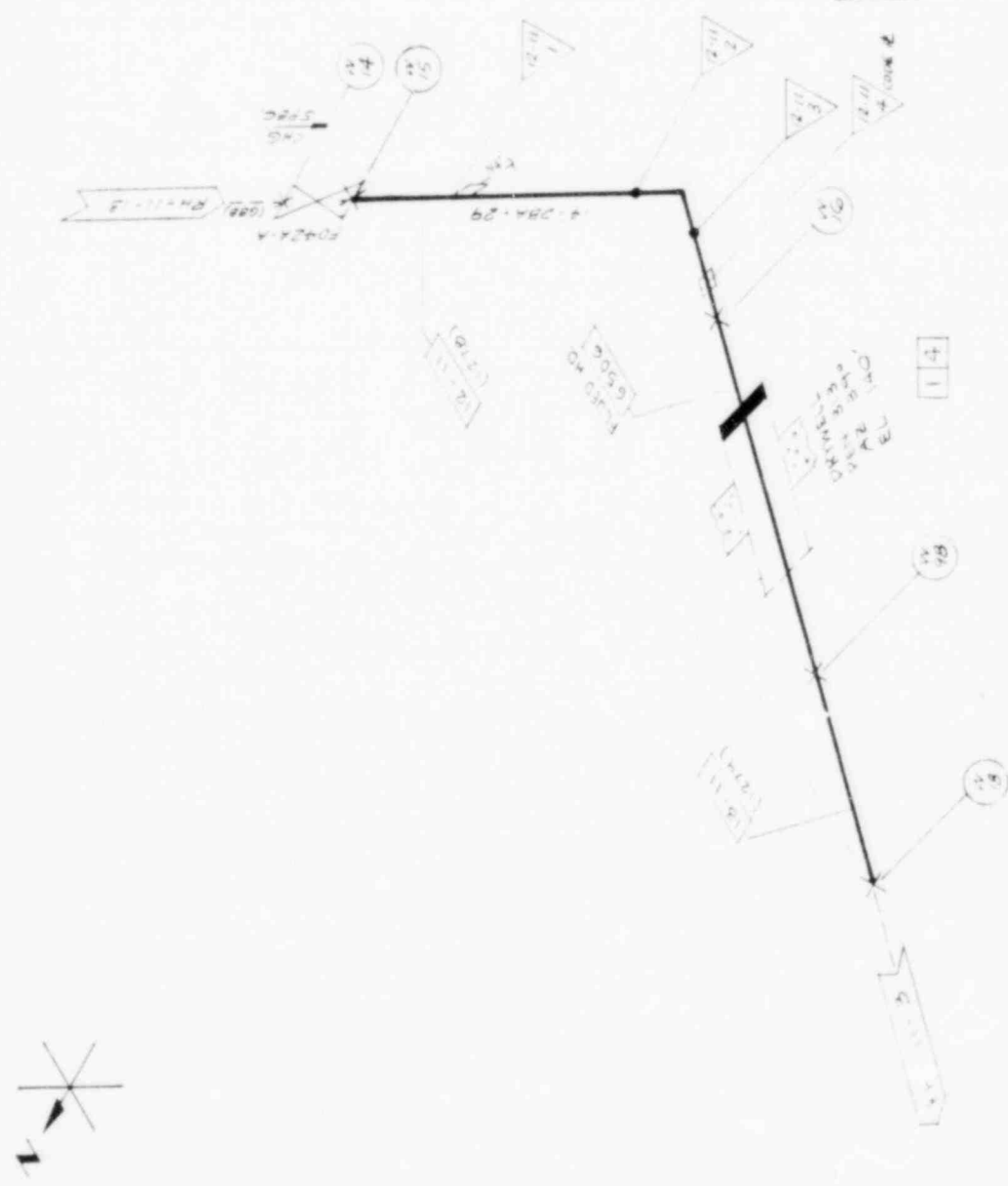
MPBL		GG-1	(JB-1)	OWN S GRAUS	IBSE NSO ATLANTA	REV 3
SYSTEM RHR LPCI	LOCATION DRYWELL	REF. ISO M-1348F	REF. P&ID M-1085B	DIMS. NR. RH-11	PAGE 1 of 1	

RH-O-2C

CAL. STANDARD I.D. 7.6

MPL NO (SIZING)	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	AGERS SATS	I.D. MARK COMP
W 14	"G"	CF	UT	09-11-79		YES
W 15	"G"	BJ	UT	09-07-79		YES
12-11-2	"C"	BJ	UT	09-07-79		YES
12-11-3	"C"	BJ	UT	07-15-80		YES
W 16	"E"	BJ	UT	09-11-79		YES
W 98	"G"	BJ	UT	09-06-79		YES
W 18	"E"	BJ	UT	09-06-79		YES
W 14	"G"	CF	PT	PBT		YES
W 15	"G"	BJ	PT	PBT		YES
12-11-2	"C"	BJ	PT	TEXAS PIPE		YES
12-11-3	"C"	BJ	PT	TEXAS PIPE		YES
W 16	"E"	BJ	PT	PBT		YES
W 98	"G"	BJ	PT	PBT		YES
W 18	"E"	BJ	PT	01-27-81		YES

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MPBL	GG-1	(JB-1)	ISSUE NO	2
SYSTEM	LOCATION	REP	DATE	9-84
RHR LPCF	DRY WELL	M-1348F	RH-11	
LOOP "A"	& CTMT	(RH-O-2C)	SK-M-1593	PAGE 1 of 1

RH-O-2C

[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MPBL	GG-1	(JB-1)	DATE BY ATLANTA	BASE - NSO
SUBJECT	R H R	CMT B	M-1348F	DATE BY S GAUS	RH-II
SYSTEM	AUX BLDG			DATE BY M1065B	PAGE 10f1
				DATE BY SK-M1593	

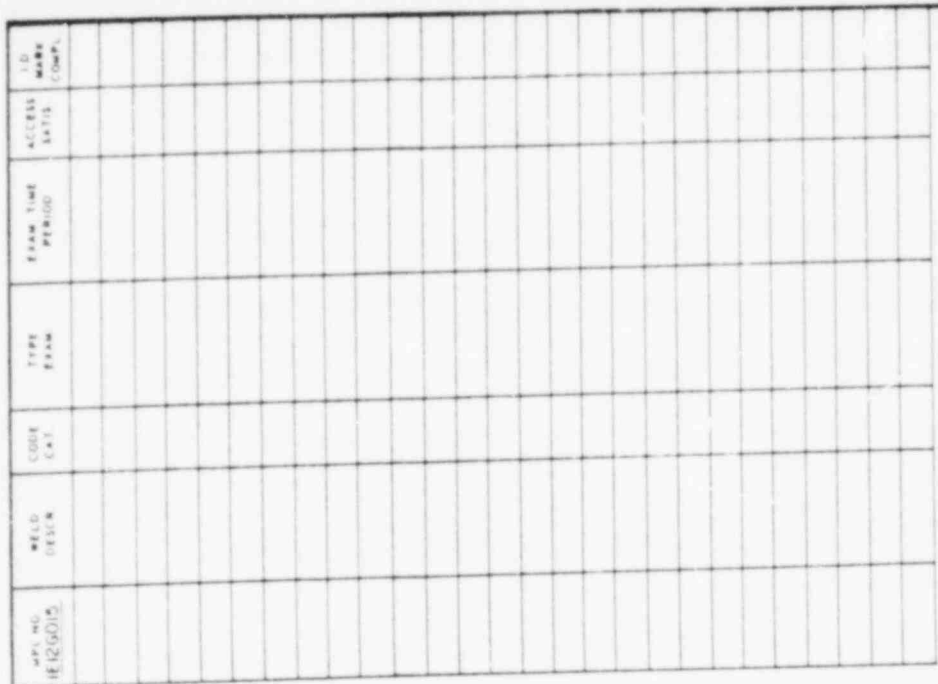
RH-0-2C

[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MPBL	GG-1	(JB-1)	DATE	1958-07-19	105E-N50	15
SUBJECT	RHR	CTWT	M-1348F	DATE	M-1085B	RH-11	15
					SK-M-1533	PAGE 10811	

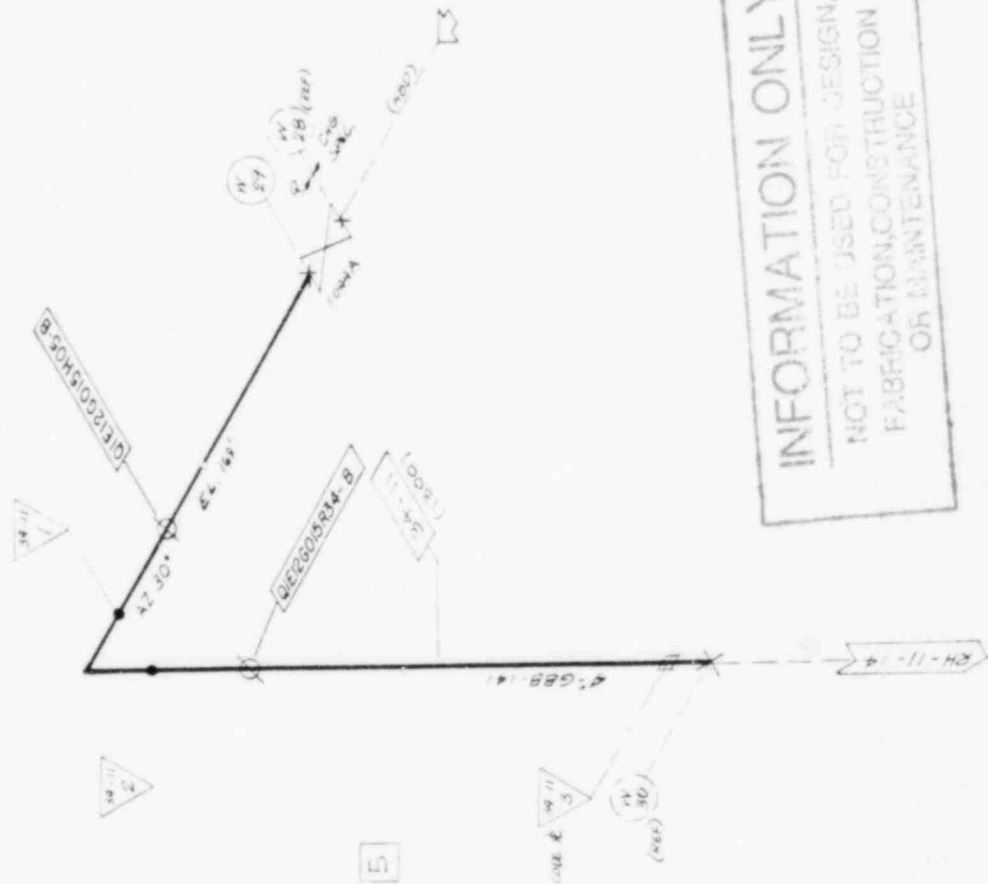


ORIGINAL COPY WHEN THIS IMPRINT IN REQ 3

GENERAL ELECTRIC

PROJECT	GG-1	(JB-1)	ORDER NO. 09-05-79	BASE-NSO
MP&L	CTMT	M 1348F	S GRAVIS	AVLAWM
RRR			M-1085B	RH-11
			SK M-1593	PAGE 10FI

RH-0-2C



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OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED

PROJECT		MP8L		GG-1		(JB-1)	
SYSTEM		RHR		LOCATION		CTMT	
MADE BY		S. GRAUS		REP. NO.		M-1085B	
MADE BY		MSE-NZO		REP. NO.		RH-11	
MADE BY		ATLANTA		REP. NO.		SK-M-1593	
MADE BY		PAGE 10f1		PAGE 10f1		PAGE 10f1	

RH-O-2C

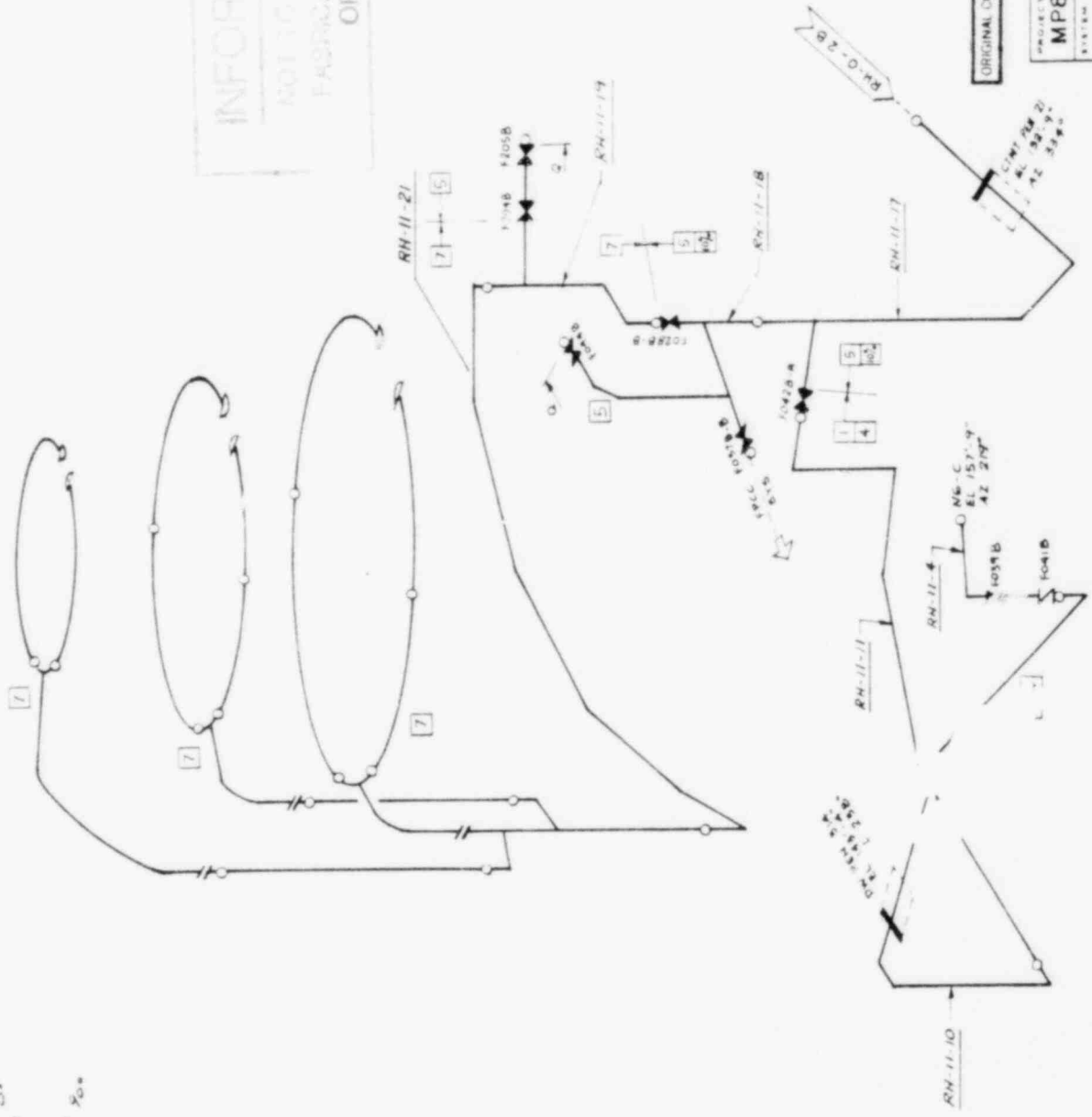
[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED	3
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GENERAL ELECTRIC

PROJECT	MPBL (GG-1) JB-1		MADE AT	185E - NSO ATLANTA
SUBJECT	LOCATION	REF. CODE	S GRAUS	
R.H.R.	CTMT	M-134SF	REV. NO.	RH-II PAE I of I
				16

94-0-2C



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OR MAINTENANCE

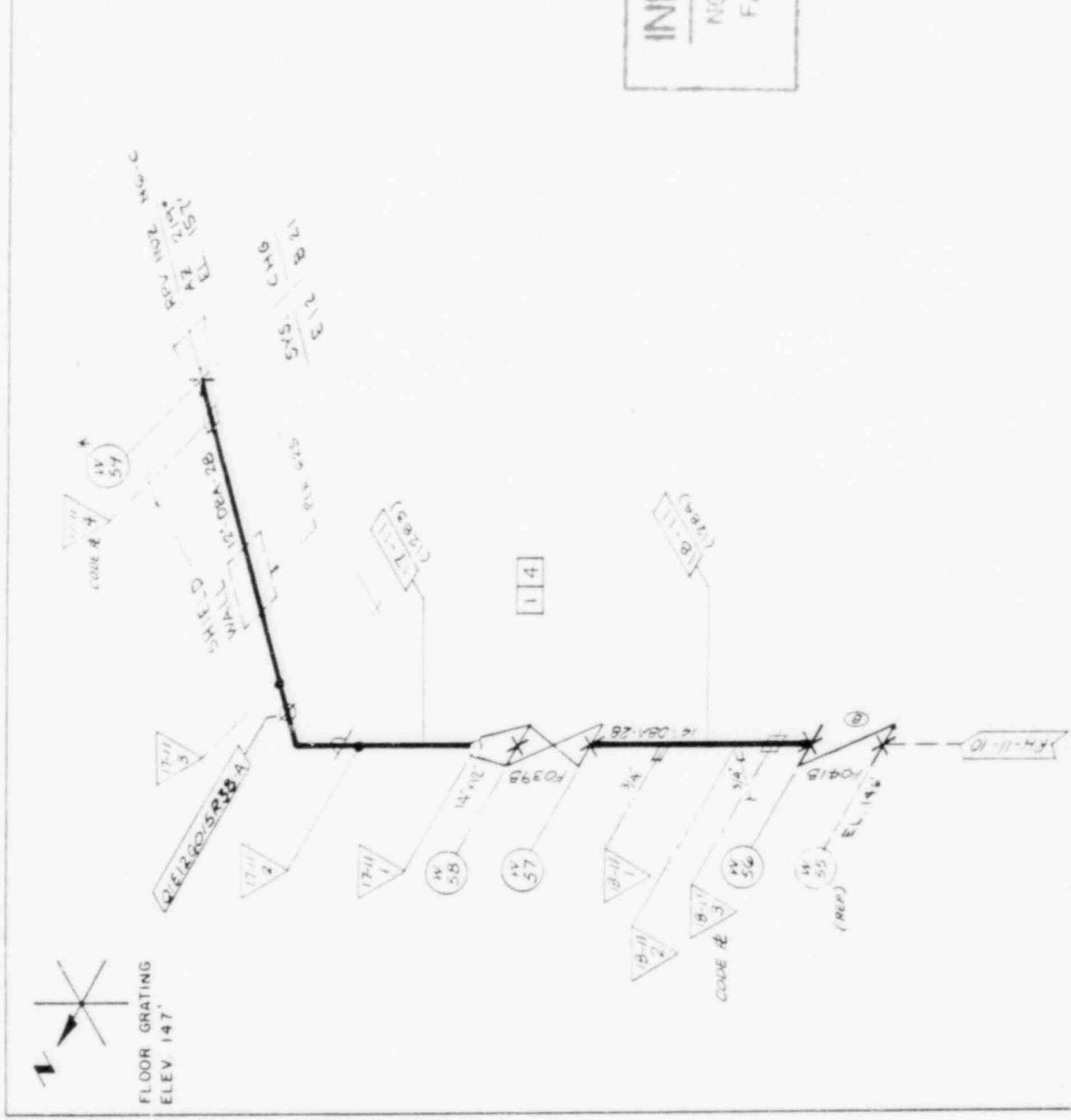
- No Pipe Spools _____
- No Pipe Shop Welds _____
- No Pipe Field Welds _____
- No Hys Restraints _____
- TOTAL NO WELDS _____

ORIGINAL COPY WHEN THIS IMPRINT IN RED

PROJECT		GENERAL ELECTRIC		2	3
MP8L		GG-1 (JB-1)		18SE-NSO	2D
SYSTEM		LOCATION		ATLANTA	
RHR LPCI		CTMT		M-1085A	RH-O
CTMT SPRAY		M-1348F		M-1348G	PAGE 10/11

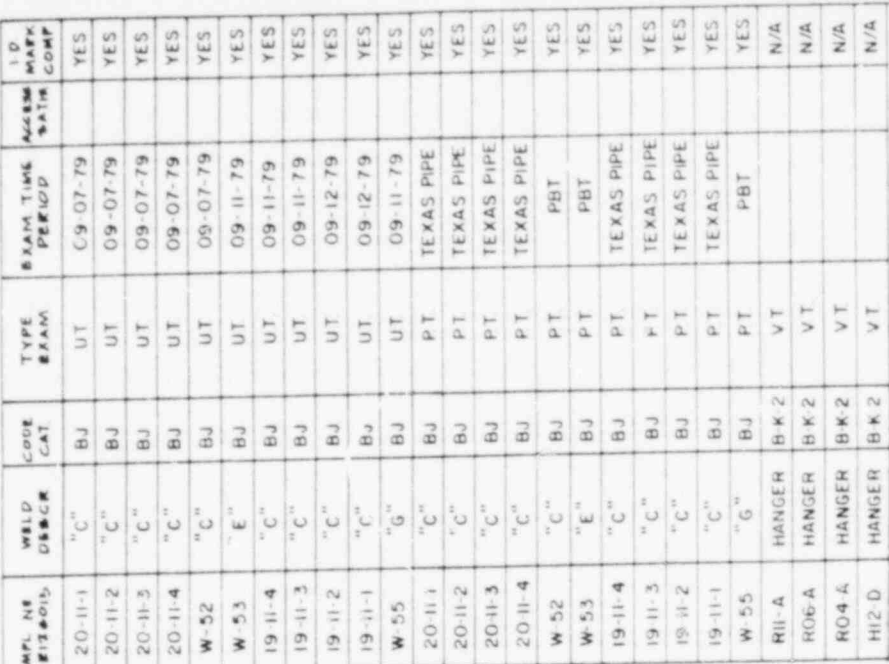
MPL NO	WELD	CODE	TYPE	EXAM	EXAM TIME	ACCESS	ID
1812 015	DESCR	CAT	W	PERIOD	SAT	MARK	COMP
W-56	"G"	BJ	UT	09-11-79		YES	YES
W-57	"G"	BJ	UT	09-11-79		YES	YES
W-58	"M"	BJ	UT	07-21-80		YES	YES
17-11-1	"C"	BJ	UT	07-21-80		YES	YES
17-11-2	"C"	BJ	UT	07-21-80		YES	YES
17-11-3	"C"	BJ	UT	07-21-80		YES	YES
W-59	"D"	BJ	UT	08-11-80		YES	YES
W-56	"G"	BJ	PT	PBT		YES	YES
W-57	"G"	BJ	PT	PBT		YES	YES
W-58	"M"	BJ	PT	PBT		YES	YES
17-11-1	"C"	BJ	PT	TEXAS PIPE		YES	YES
17-11-2	"C"	BJ	PT	TEXAS PIPE		YES	YES
17-11-3	"C"	BJ	PT	TEXAS PIPE		YES	YES
W-59	"D"	BJ	PT	PBT		YES	YES
R 38-A	HANGER	B-K-2	VT			N/A	N/A
VALVE							
F041B	BOLTS(36)	B-G-2	VT				

INFORMATION ONLY
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 FABRICATION, CONSTRUCTION
 OR MAINTENANCE



MPBL	GG-1	(JB-1)	DOWN	04-19-77	IBSE NSO	4
SYSTEM	LOCATION	REF. ISO	REF. PAID	S. GRAUS	ATLANTA	
RHR LPCI	DRYWELL	M-1348F	M-1085A	DWG. NO	RH-II	
LOOP B			SK-M 1595	PAGE	1071	

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3
 CAL. STANDARD I.D. # 6, # 7
 GE BECHTEL INTERFACE WELD
 RH-0-2D



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MPBL	GG-1	(JB-1)	DATE 9-18-75	IBSE NSO	REL
			S GRAUS	ATLANTA	
			REF PLD	DWG NO	SUT
			M-1085A	RH-11	10
			SK-M-1593	PAGE 1 of 1	

RH-0-20

WFL NO. (B2/G015)	WELD DESCR.	CODE CAT.	TYPE EXAM.	EXAM TIME PERIOD	ACCESS SATIS.	I.D. MARK COMPL.
H14-B	HANGER	BK-2	VT			N/A
R10-C	HANGER	BK-2	VT			N/A
R36-C	HANGER	BK-2	VT			N/A
C08-B	HANGER	BK-2	VT			N/A
H08-B	HANGER	BK-2	VT			N/A
H16-C	HANGER	BK-2	VT			N/A
R23-C	HANGER	BK-2	VT			N/A
H11-C	HANGER	BK-2	VT			N/A
H07-C	HANGER	BK-2	VT			N/A
H15-C	HANGER	BK-2	VT			N/A
R22-A	HANGER	BK-2	VT			N/A
H10-C	HANGER	BK-2	VT			N/A
H06-C	HANGER	BK-2	VT			N/A
H20-C	HANGER	BK-2	VT			N/A
R12-C	HANGER	BK-2	VT			N/A
H09-C	HANGER	BK-2	VT			N/A

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	GG-1		MADE BY	DATE-NDO
MP&L	(JB-1)		06-01-81	ATLANTA
SYSTEM	LOCATION	REP USE		
RHR LPCI	CTMT	M-1348F	M-1085A	RH-11
LOOP B			SK-M-1593	PAGE OF 2

* HANGERS PREFIXED BY QIEI2G015

BM-O-20

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MPBL	GG-1	(JB-1)	WAS 79 GRAUS	13E-N50 ATLANTA	2
SYSTEM	RHR	CTMT	M-1348F	REP NO 85A SK-M-1593	RH-11	1E
				REP NO 85C	PAGE 1 of 1	

RH-0-2-D



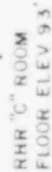
[illegible]

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GENERAL ELECTRIC

PROJECT	MPBL	GG-1	(JB-1)	WORK BY	MAE-N50	DATE
SYSTEM	RHR	LOCATION	REP. OF	PROJECT	ATLANTA	
		CTMT	M-1348F	M-1085A		
				SK-M-1593	PAGE 1 of 1	

RW-0-2D

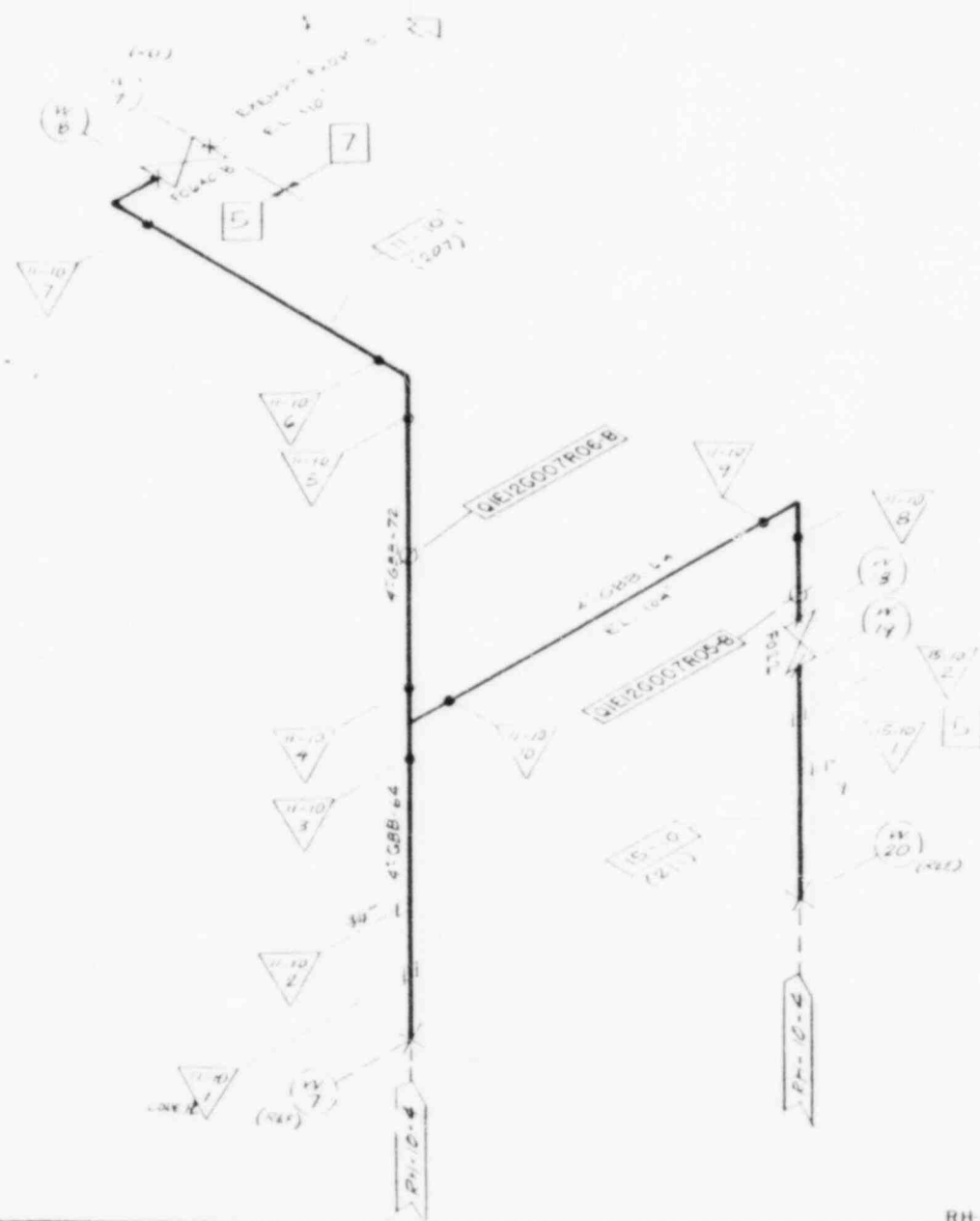
[illegible]

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GENERAL ELECTRIC

PROJECT	MPBL	GG-1	(JG-1)	MADE AT 09-11-79	ISSUE NO S GRAUS	ISSUE NO ATLANTA	BY JRM	DATE 4
SYSTEM	R/R	LOCATION AUX BLDG	REPONG M-13489	REPONG M-1085A	REPONG RH-10	REPONG PAGE 1 of 1		

RM-0-3



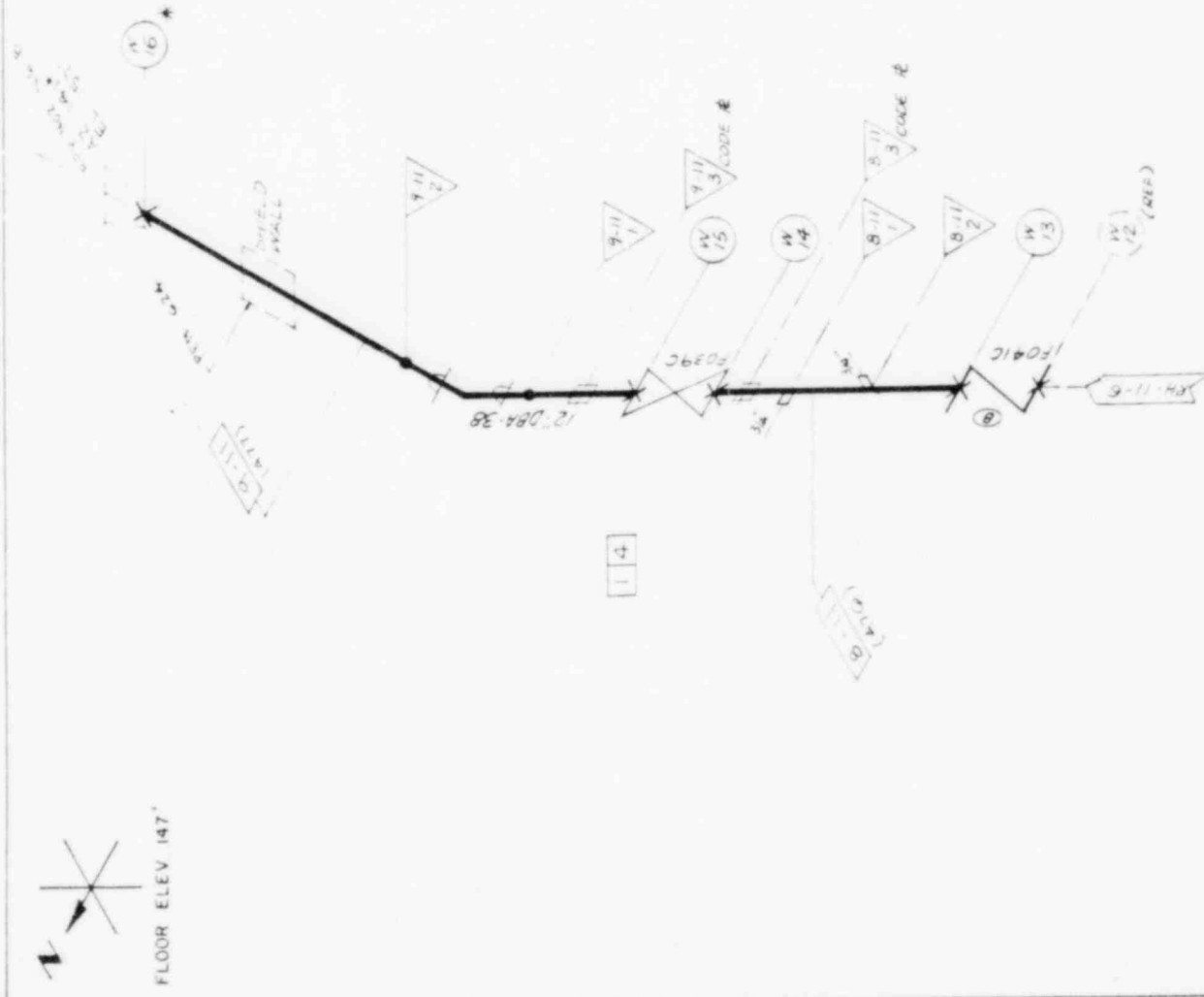
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3

GENERAL ELECTRIC

PROJECT MP&L GG-1 (JB-1)			MADE BY 09-U 79 S GRAUS		1&5E-N50 ATLANTA	U M F D
SYSTEM	LOCATION	REF DWG	REF PRD	ISSUING	SH NO	
R H R	AUX BLDG	M-13485	M 1085A SK M-1593	RH 10 PAGE 1 of 1	5	



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WELD NO.	WELD DESCR	CODE CAT	TYPE	EXAM TIME PERIOD	ACCESS SATIS	ID MARK COMP
W-13	"G"	BJ	UT	08-21-79		YES
W-14	"G"	BJ	UT	07-21-80		YES
W-15	"G"	BJ	UT	07-21-80		YES
9-11-1	"C"	BJ	UT	07-21-80		YES
9-11-2	"C"	BJ	UT	07-21-80		YES
W-16	"D"	BJ	UT	08-11-80		YES
W-13	"G"	BJ	PT	PBT		YES
W-14	"G"	BJ	PT	PBT		YES
W-15	"G"	BJ	PT	PBT		YES
9-11-1	"C"	BJ	PT	TEXAS PIPE		YES
9-11-2	"C"	BJ	PT	TEXAS PIPE		YES
W-16	"D"	BJ	PT	PBT		YES
VALVE POINT	BOLTS(20)	B-G-2	VT	06-23-81		N/A

ORIGINAL COPY WHEN THIS IMPRINT IN RED

MP8L GG-1 (JB-1)

SYSTEM: RHR-LPCI LOOP C

LOCATION: DRYWELL

REF: M-1348T

REP: M-1085A

DATE: 04-20-77

BY: S. GRAUS

DATE: 06-20-77

BY: S. GRAUS

DATE: 08-21-79

BY: S. GRAUS

DATE: 07-21-80

BY: S. GRAUS

DATE: 07-21-80

BY: S. GRAUS

DATE: 07-21-80

BY: S. GRAUS

DATE: 08-11-80

BY: S. GRAUS

DATE: 06-23-81

BY: S. GRAUS

IBSE NSO

ATLANTA

DWG. NO.

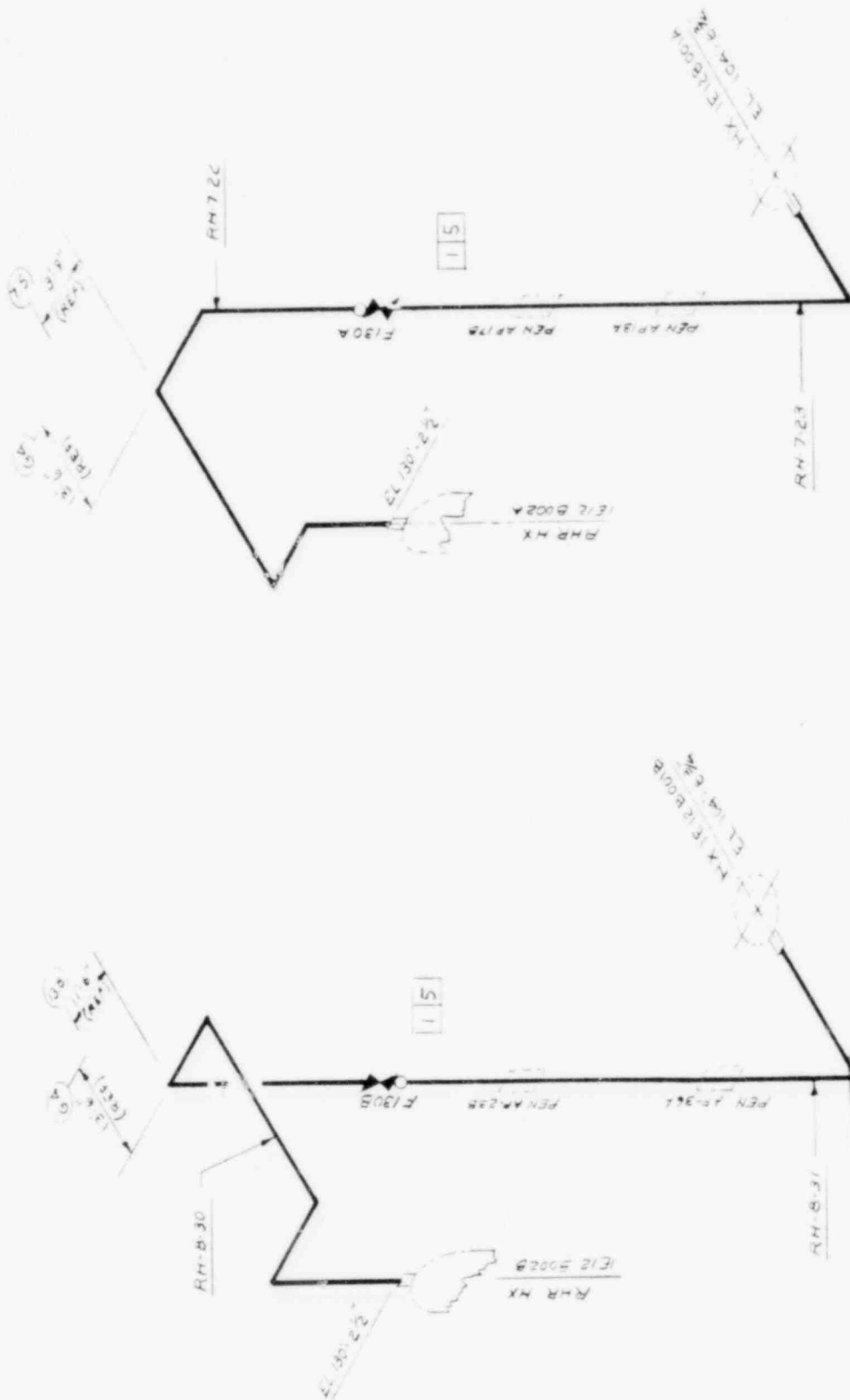
RH-11

PAGE 1 of 1

CAL STANDARD I.D. # 6

GE BECHTEL INTERFACE WELD

RH-O-3



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No.	Pipe Spools
No.	Pipe Shop Vals
No.	Pipe Field Welds
No.	Hys. Connections
	TOTAL PIPING WELL

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

PROJECT		GG-1 (JB-1)		MADE BY		GENERAL ELECTRIC	
MP8L		LOCATION		06-26-HO		BASE-NISO	
RIRM		AUX BLDG		SULLIVAN		ATLANTA	
RIRM TX		REF DWG		REF DWG		1ST DWG NO	
BOOK 48B TO		M-1348C		M-1085		RH-0	
BOOK 48B				SK-M-1593		PAGE 1 of 1	

WELD NO	WELD DESIG	CODE	TYPE	EXAM TIME	ACCESS	I.D.
1E12G009						MARK
B-7-1	"C"	CF	UT	06-23-80	SATIS	COMPL
W-22	"C"	CF	UT	06-20-80		YES
W-5	"C"	CF	UT	06-20-80		YES
9-7-2	"C"	CF	UT	06-20-80		YES
9-7-1	"C"	CF	UT	06-20-80		YES
W-6	"C"	CF	UT	06-20-80		YES
10-7-1	"C"	CF	UT	06-23-80		YES
10-7-3	"C"	CF	UT	06-23-80		YES
10-7-4	"C"	CF	UT	06-23-80		YES
W-7	"D"	CF	UT	06-23-80		YES
B-7-1	"C"	CF	MT	03-03-81		YES
W-22	"C"	CF	MT	03-03-81		YES
W-5	"C"	CF	MT	03-03-81		YES
9-7-2	"C"	CF	MT	03-03-81		YES
9-7-1	"C"	CF	MT	03-03-81		YES
W-6	"C"	CF	MT	03-03-81		YES
10-7-1	"C"	CF	MT	03-03-81		YES
10-7-3	"C"	CF	MT	03-03-81		YES
10-7-4	"C"	CF	MT	03-03-81		YES
W-7	"D"	CF	MT	03-03-81		YES
R03-A	HANGER	CE	VT			N/A
H02-D	HANGER	CE	VT			N/A
R04-A	HANGER	CE	VT			N/A

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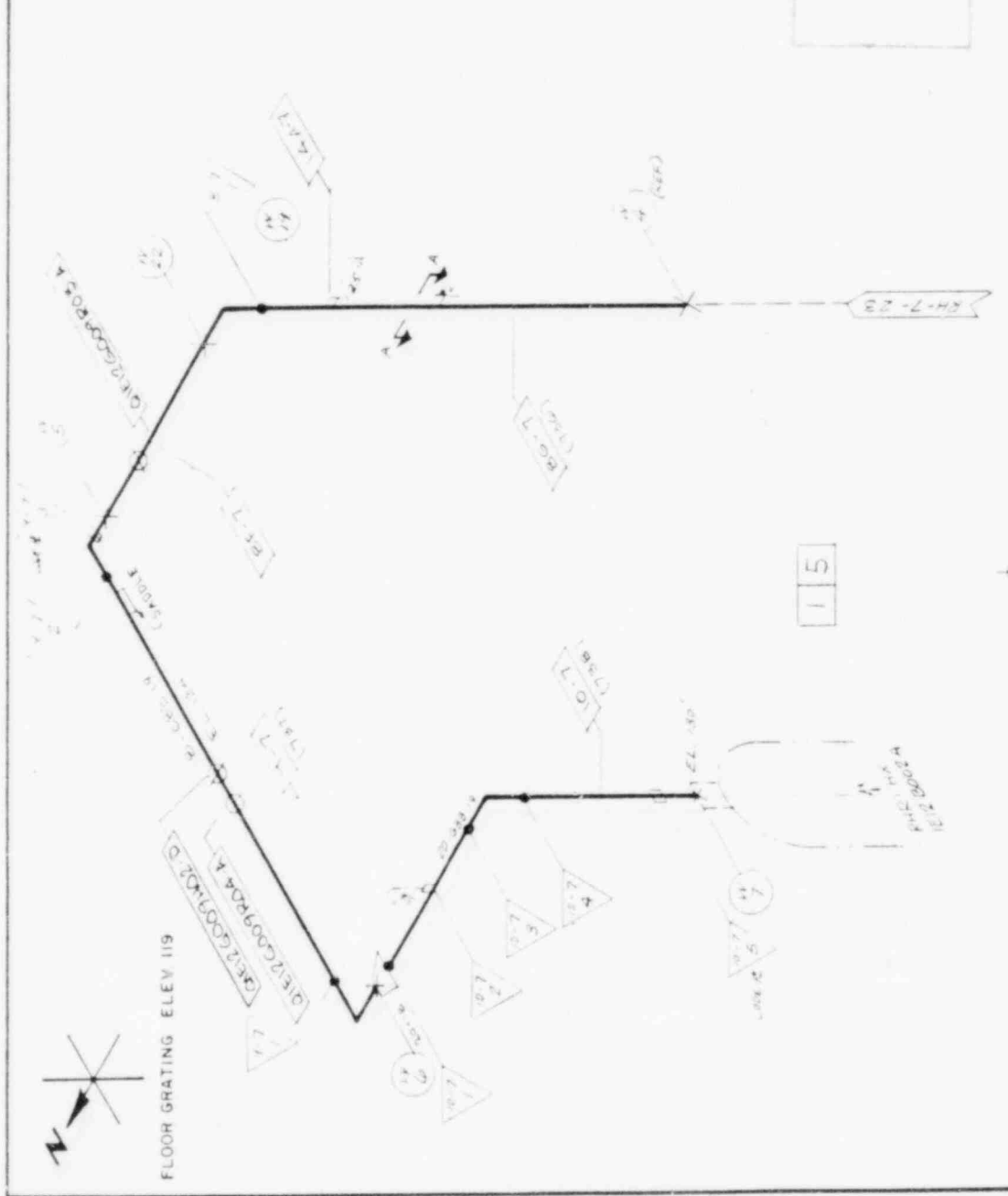
ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

PROJECT	MPBL	GG-1 (JB-1)	MADE BY	MADE DATE	MADE BY	MADE DATE
SYSTEM	RHR	AUX BLDG	S GRAUS	18-08-80	18-08-80	18-08-80
LOCATION			REP NO	M-1085B	REP NO	SK M 1593
				RH-7		PAGE 1 of 1

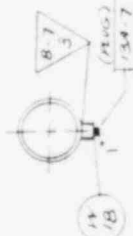
LINE NO. W THKNS
20" GBB-19 438"
18" GBB-19 594"
ISI DUE TO BECHTEL NOTE 17 RH-0-4

SECTION 4-A

CAL STANDARD I.D. #39, #40



15





CAL STANDARD 10-39.40 ISI DUE TO BECHTEL NOTE 17

RH-0-4

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GENERAL ELECTRIC

MP&L GG-1 (JB-1)

5 GRAUS

I&SE - NSO
ATLANTA

Q-H-H
PAGE 1041

LP - L PCS SYSTEM - E2I

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DRAWING SYMBOLS

LETTER SYMBOLS

WELDING CONFIGURATION

PIPING SYSTEMS

CC - CONTAMINANT COOLING CD - CONDENSATE CG - COMBUSTIBLE GAS CH - CHILLED WATER CS - COND. PM STORAGE & TRANSFER CO - REACTOR WATER CLEANUP CW - COMP. COOLING WATER DG - DIESEL GENERATOR DR - FLOOR & EQUIPMENT DRAINS DW - DOMESTIC WATER FC - FUEL POOL COOLING & CLEANUP FD - FILTER DRAIN (FPCU) FW - FEEDWATER HP - HIGH PRESSURE CORE SPRAY IA - INSTRUMENT AIR	LC - STANDBY LIQUID COOLING LD - LEAK DETECTION LP - LOW PRESSURE CORE SPRAY LR - LEAK RATE TEST SYSTEM MS - MAIN STEAM RD - REACTOR ROD DRIVE RF - FILTER DRAIN (RUCU) RH - RESIDUAL HEAT REMOVAL RI - REACTOR CORE EROSION COOLING RR - REACTOR REPRODUCTION RV - MAIN STEAM RELIEF VALVE SA - SERVICE AIR SC - SUPPRESSION POOL CLEAN UP SD - MAIN STEAM DRAINS SM - SHIPP. POOL MAKE UP SW - PLANT SERVICE WATER WE - STANDBY SERVICE WATER
---	--

 TEE	 STUB-IN FITTING (N.W., S.W., E.W.)	 ALIGNED STUB-IN	 WELD CAP	 SCREWED CAP	 PLAIN END	 VENDOR CORE TAG & SHOP WELD NO.	 PENETRATION SLEEVE	 PENETRATION SLEEVES IN FLARED HEAD OR SEAL PLATE	 IN-LINE PENETRATION	 LIMIT OF SAFETY RELATED PIPING & COMPONENTS	 POINT OF DESIGN SPECIFICATION CHANGE
--	---	--	---	--	--	--	--	---	--	--	---

ABBREVIATIONS

AUX - AUXILIARY BDG - BUILDING CL - CENTERLINE CL - CLASS COMP - COMPLETE COMPONENT CONT - CONTAMINANT DW - DRYWELL DWG - DRAWING EL - ELEVATION FLG - FLANGE HD - HEAD HX - HEAT EXCHANGER ID - IDENTIFICATION ISI - INSERVICE INSPECTION MPL - MASTER PARTS LIST N - NORTH OR NOZZLE PEN - PENETRATION	REV - REVISION RFV - REACTOR VESSEL RY - REACTOR SCH - SCHED. 40 SHT - SHEET STD - STANDARD THD - THREADED TURB - TURBINE WEL - WELDED
---	---

MANUSCRIPTS

A - SNUBBER B - RIGID STRUT C - BOX OR GUIDE D - SPRING E - COMBINATION F - ANCHOR PWR	REV - REVISION RFV - REACTOR VESSEL RY - REACTOR SCH - SCHED. 40 SHT - SHEET STD - STANDARD THD - THREADED TURB - TURBINE WEL - WELDED
---	---

SCALE OR NO JB-1	CONTRACT NO 360474002	DATE FOR 1955	POWER & LIGHT	PROJECT BRAND GOLF NUCLEAR PLANT	DESIGNED BY BSINT9B0006	CHECKED BY BSINT9B0006	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION REACTOR & SERVICE ENGINEERING ATLANTA, GEORGIA
---------------------------------------	-------------------------------------	-----------------------------	--------------------------	--	---------------------------------------	--------------------------------------	---

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ISI EXAMINATION REQUIREMENTS

- 1 VOLUMETRIC EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, IWB-2500 AND IWC-2500
- 10% VOLUMETRIC EXAMINATION OF 10% OF THE CLASS 2 PIPING WELDS IN ECCS SYSTEMS WHICH ARE PRESSURIZED LESS THAN 200 PSI DURING NORMAL PLANT OPERATION AND ARE NOT EXEMPTED BY OTHER CRITERIA
- 2 SURFACE EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, IWB-2500 AND IWC-2500
- 3 VISUAL EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, IWB-2500 AND IWC-2500
- 4 SYSTEM LEAKAGE AND HYDROSTATIC PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWB-5000
- 5 SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 2 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWB-5000
- 6 SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 3 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWB-5000
- 7 ASME CLASS 2 AND 3 COMPONENTS EXEMPT FROM ANY ISI PER ASME SECTION XI

INFORMATION ONLY

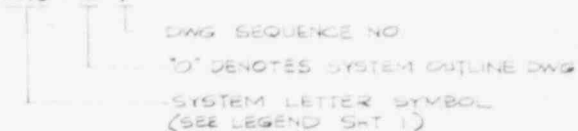
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DWG. NUMBERING SYSTEM

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

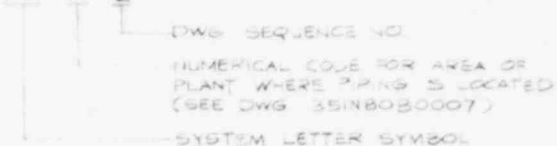
EXAMPLE: MS-0-1



II. WELD IDENTIFICATION DWGS (ISOMETRICS)

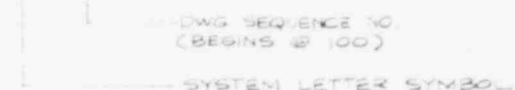
A. ASME CLASS 1 & 2 SYSTEMS

EXAMPLE: FW-11-2



B. CLASS 3 SYSTEMS

EXAMPLE: CU-103



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SCALE NONE	JOB NO JB-1	TITLE LEGEND FOR ISI ISOMETRIC DRAWINGS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV ATLANTA, GEORGIA
CONTRACT NO B60N74002	MADE FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO 35479B0006 REV A
			SHEET NO 2 OF 3

PIPE CLASSES ARE DESIGNATED BY A THREE LETTER CODE. THE FIRST LETTER INDICATES THE PRIMARY FLANGE PRESSURE RATING, THE SECOND LETTER, THE TYPE OF MATERIAL, AND THE THIRD LETTER, THE CODE TO WHICH THE PIPING IS DESIGNED.

FIRST LETTER - PRIMARY PRESSURE RATING

(UNLESS OTHERWISE NOTED, ALL RATINGS ARE IN ACCORDANCE WITH ANSI B16.5)

A. SPECIFIC PRESSURE AT SPECIFIC TEMPERATURE

B. 2500#

C. 1500#

D. 900#

E. 600#

F. 400#

G. 300#

H. 150#

J. 125# (ANSI B16.1)

K. 175# WOG UNDERWRITERS' LABORATORIES, INC.

L. 250# (ANSI B16.1)

X. GRAVITY RATING

Y. ROCK DRAINS, GRAVITY RATING

ADDITIONAL PRESSURE RATINGS:

M. 200# (MANUFACTURER'S RATING)

N. 150# WOG

P. 100# (MANUFACTURER'S RATING)

R. 75# (MANUFACTURER'S RATING)

S. 50# WOG

T. 25# AWWA (OR MANUFACTURER'S RATING)

Z. GENERAL USE AS DESIGNATED ON PIPING CLASS SHEETS

V. 150# (MANUFACTURER'S RATING)

SECOND LETTER - MATERIAL

A. ALLOY STEEL

B. CARBON STEEL

C. AUSTENITIC STAINLESS STEEL

D. COPPER, BRASS or BRONZE

E. ALUMINUM

F. CARBON STEEL - COPPER BEARING

G. CARBON STEEL - SARAN LINED

H. CAST IRON

K. PVC

M. DURIUM

N. CARBON STEEL - GALVANIZED

P. CAST IRON - CEMENT LINED

R. CARBON STEEL - EPOXY LINED

S. DUCTILE IRON - CEMENT LINED

T. DELETED

V. FRP

W. CARBON STEEL - TEFLON LINED

THIRD LETTER - APPLICABLE CODES

A. NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 1

B. NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 2

C. NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 3

D. POWER PIPING CODE, ANSI B31.1

F. NATIONAL FIRE PROTECTION ASSOCIATION CODE

G. SOUTHERN STANDARD PLUMBING CODE

H. POWER BOILERS, ASME BBPV CODE, SECTION I

J. AMERICAN WATER WORKS ASSOCIATION STANDARDS

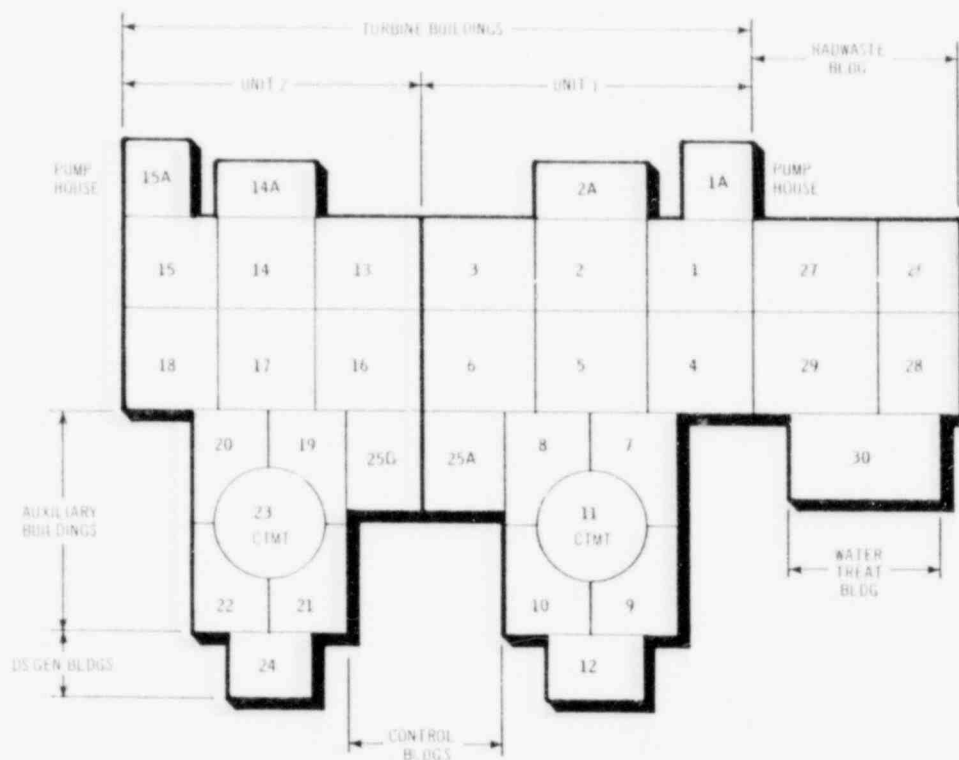
Z. FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3. DESIGNED PER ANSI B31.1.
N-STAMPING, SEISMIC ANALYSIS AND Q-LISTING ARE
NOT REQUIRED.

INFORMATION ONLY

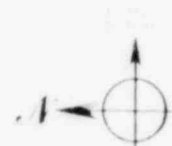
FOR THE USE OF THE
FEDERAL BUREAU OF INVESTIGATION
OF MAINTENANCE

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SCALE NONE	JOB NO. JB-1	TITLE LETTER CODE FOR PIPING		GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA	
CONTRACT NO. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT		DRAWING NO. 35IN79B0006	REV. A
MADE FOR MISSISSIPPI POWER & LIGHT CO.		SHEET NO. 3 OF 3			



GRAND GULF NUCLEAR STATION UNITS 1 AND 2
 PORT GIBSON, MISSISSIPPI
 MISSISSIPPI POWER & LIGHT COMPANY



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 OR MAINTENANCE

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SCALE NONE	JOB NO. JB-1	TITLE KEY PLAN AREA LOCATIONS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA
CONTRACT NO. 360N74002	MADE FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	
		DRAWING NO. 35IN8030007	REV. 1

INDEX TO ISOS FOR E-2I SYSTEM

REV	
A	COMPOSITE: LP-0-1
A	FOR ISOS: LP-9-1
A	LP-9-2
A	LP-9-3

REV	
A	COMPOSITE: LP-0-2
A	FOR ISOS: LP-9-4
A	LP-9-5
A	LP-9-6
A	LP-9-7
A	LP-9-8
A	LP-9-9
A	LP-9-10
A	LP-9-11
A	LP-11-1
A	LP-11-2
A	LP-11-3
A	LP-11-4
A	LP-11-5

INFORMATION ONLY

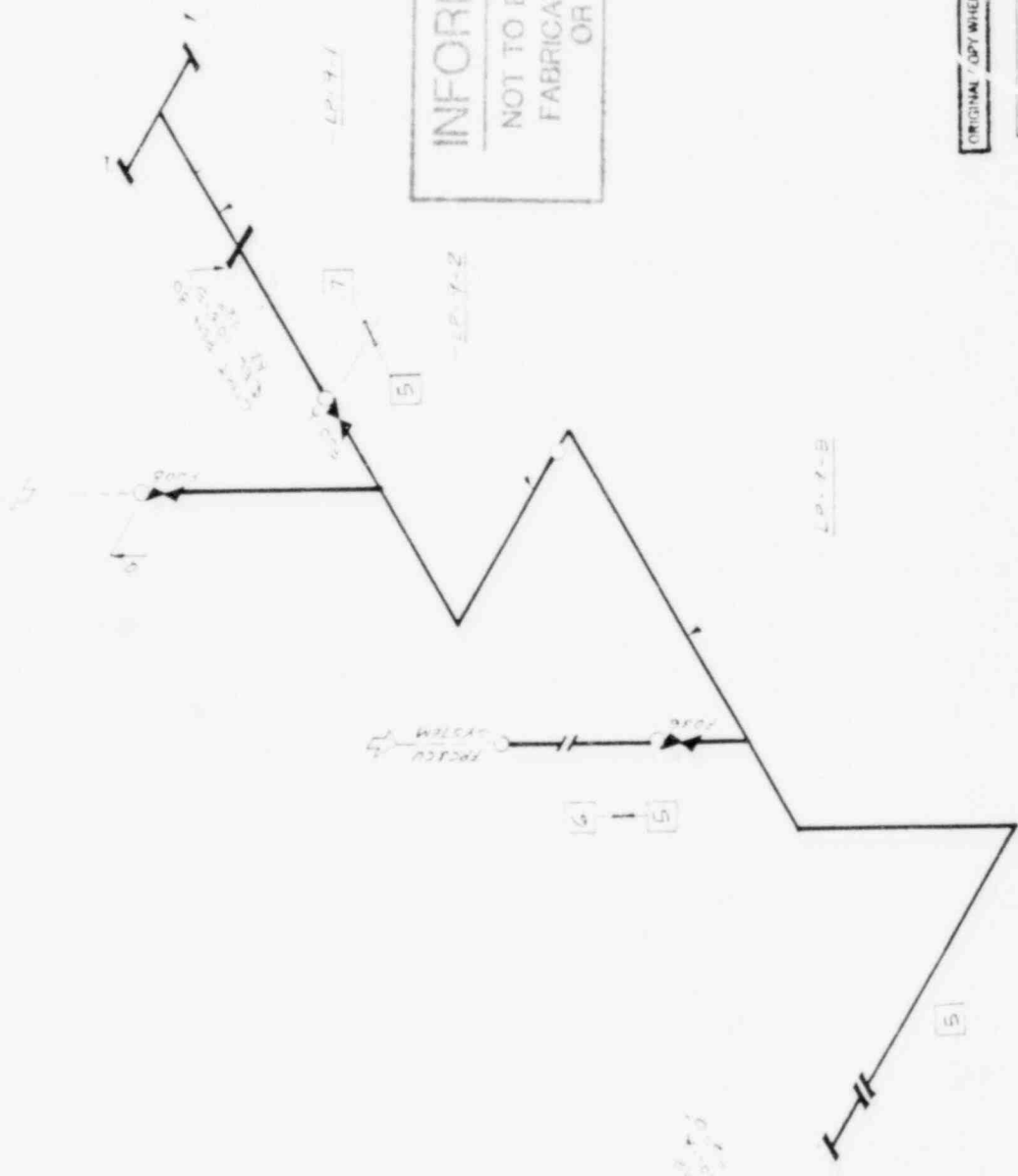
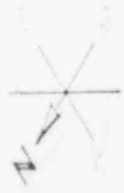
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REV	DATE
A	10/1/81

REF. MFL 1152



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OR MAINTENANCE

No. Pipe Spools	
No. Pipe Shop Welds	
No. Pipe Field Welds	
No. High Pressure Joints	
TOTAL NO. ASSES	

ORIGINAL / COPY WHEN THIS IMPRINT IN RED

GENERAL ELECTRIC	
PROJECT NO.	01-02-79
DATE	5 GRAVS
LOCATION	M-1087
AUX BLDG	M-1350A
SECTION	JB-1
ISSUE	NSO
LP-O	LP-O
SK M-1594	PAGE 1 of 1

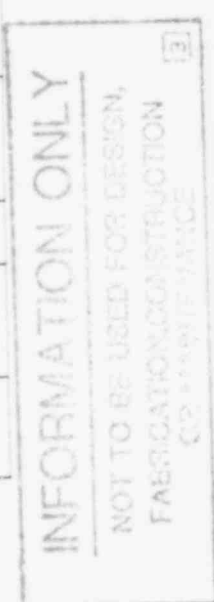
[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

MODEL	GG-1	(JB-1)	TESTED 5 GAUS	TYPE-N50 5.00000
STATUS	AUX BLDG	M-1504	M-1087	TYPE-N50 5.00000
LPCS			SK M-1594	PAGE 1 of 1

LP-0-1



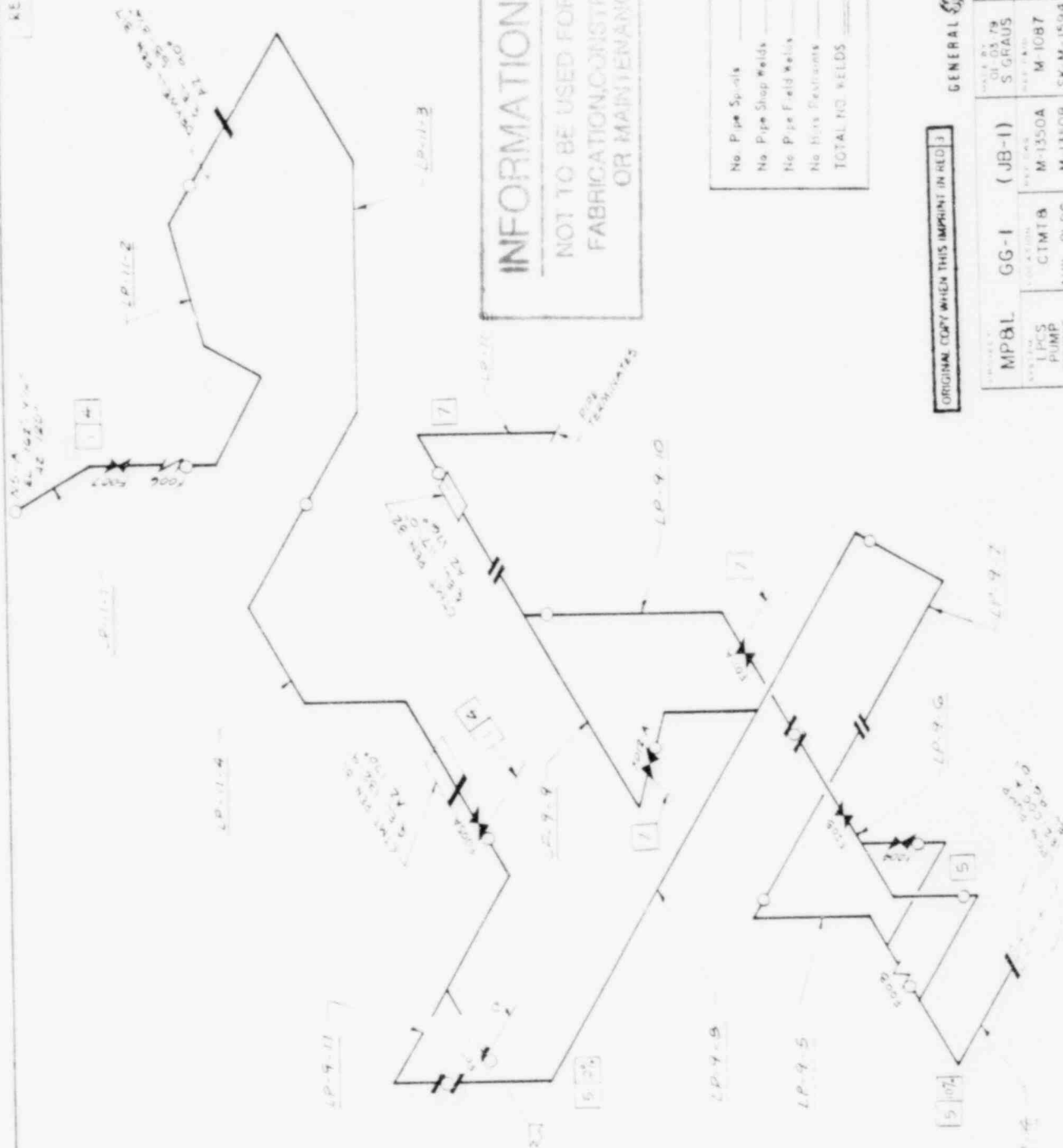
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GENERAL ELECTRIC

[illegible]

LP-01

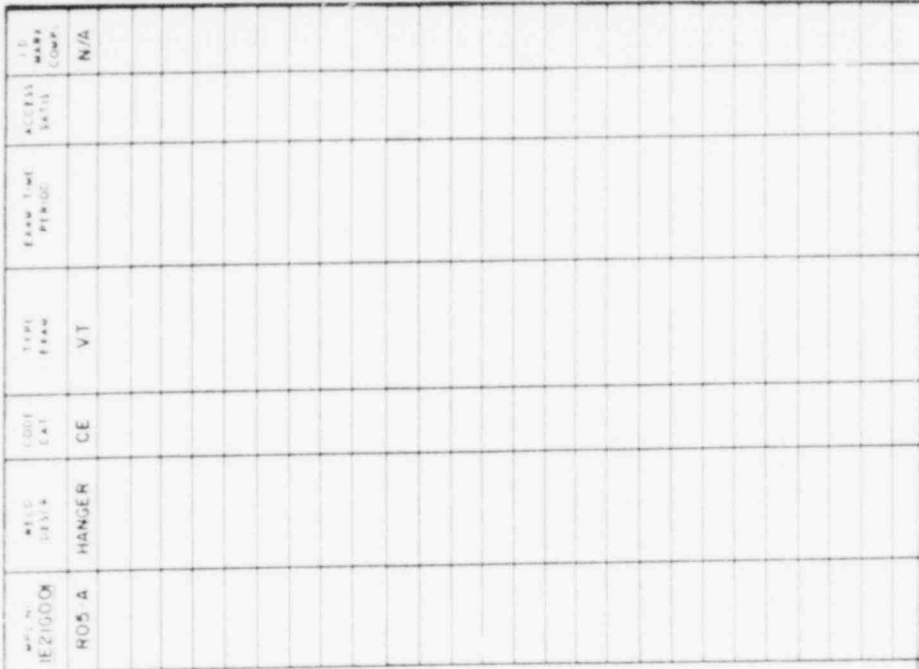
CM STANDARD 1 D ■ BT002



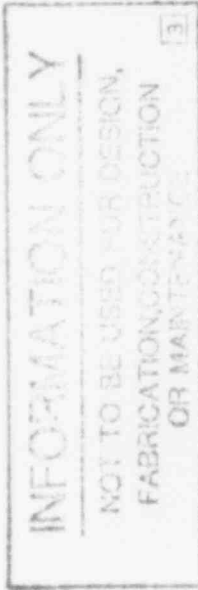
INFORMATION ONLY
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OR MAINTENANCE

No Pipe Spalls
No Pipe Shop Welds
No Pipe Field Welds
No Hiss Restraints
TOTAL NO. WELDS

ORIGINAL COPY WHEN THIS IMPRINT IS RED			
MPBL	GG-1	(JB-1)	GENERAL ELECTRIC
LPCS	CTMTB	M-1350A	185E-N50
PUMP	AUX BLDG	M-1087	ATLANTA
DISCHG		SK-M-1594	LP-0
			2



ORIGINAL COPY WHEN THIS IMPRINT IN RED	GENERAL ELECTRIC	DATE OF ISSUE 06-79	BASE NO ATLANTA	1
		S GRAUS		2
		REV. CLASS		3
			W-1087	4
			LP 9	5
			SK M-1534	PAGE 1 of 1



PROJECT		GC-1		(JB-1)	
MPAL	GC-1				
LPCS	AUX BLDG	M 1350A			
GENERAL ELECTRIC		185E-N50 ATLANTA		6	
10/24/79		S GRAUS		LP-9	
HIGH RISE		M 1087		PAGE 1 OF 1	
SK M-1294					

21F-4

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3		 GENERAL ELECTRIC		MADE IN U.S.A. 79 S GAUS	183E - NSO ATLANTA	MADE IN U.S.A.
PART NO MP8L	LOCATION GG-1	PART NO (JB-1)	MADE IN U.S.A.	183E - NSO ATLANTA	MADE IN U.S.A.	9
SYSTEM LPCS	LOCATION AUX BLDG	PART NO M-1350A	MADE IN U.S.A.	183E - NSO ATLANTA	MADE IN U.S.A.	9

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3



FLOOR GRATING ELEV 147'

E AZ 120°
ELEV 142'

NS-A

W-14

W-24

3-11/4 CODE 2

W-15

GG-11

1-4

FOOT

3-11/4

3-11/4

W-15

W-14

3/4

5'-55"

7-11/4

(REF) W-13 7-11/4 CODE 2

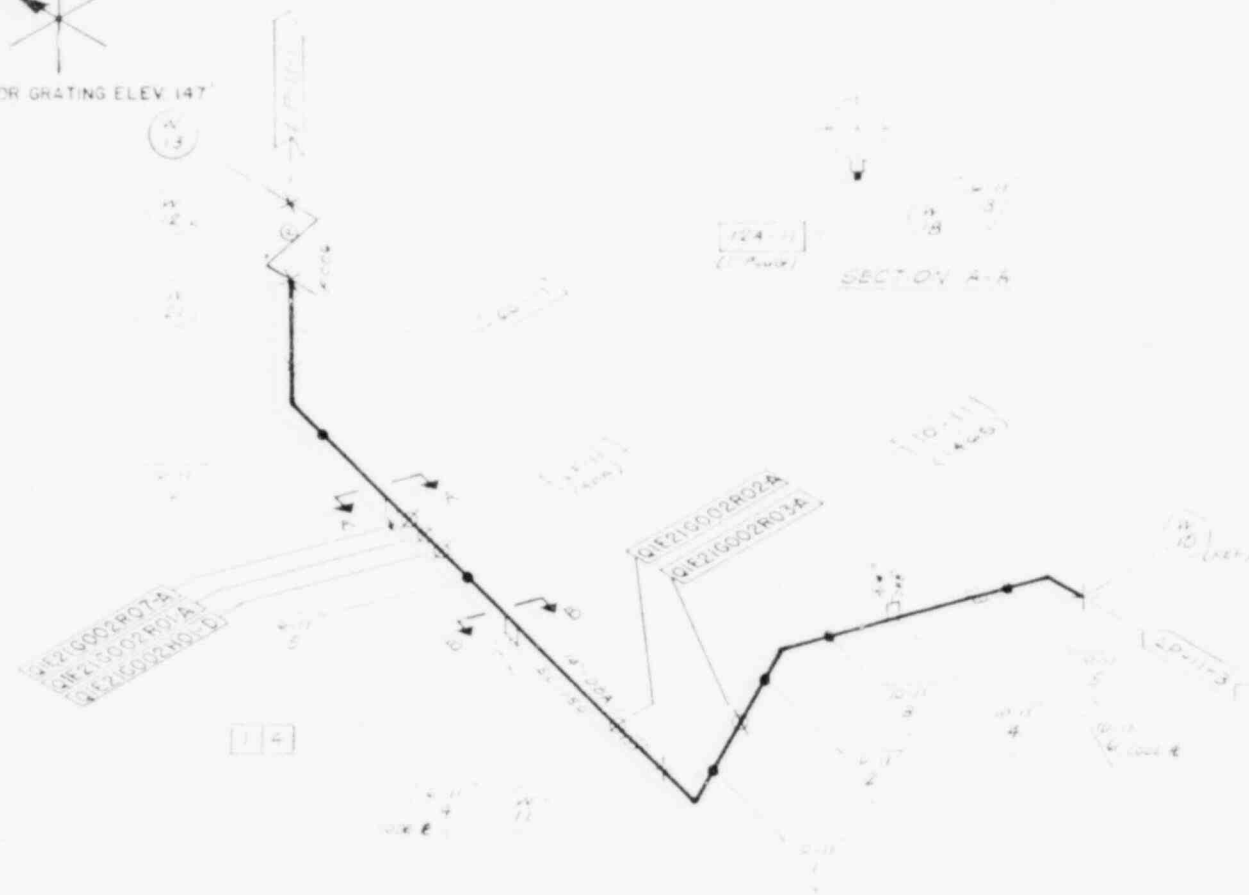
* GE/BECHTEL INTERFACE WELD
CAL STANDARD I.D. = 7.756

LP-0-2

MPL NO REVISION	WELD DESIGN	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMP
W-14	"G"	BJ	UT	06-12-79		YES
W-15	"G"	BJ	UT	08-11-80		YES
B-II-1	"C"	BJ	UT	08-11-80		YES
W-25	"C"	BJ	UT	08-11-80		YES
W-24	"G"	BJ	UT	08-11-80		YES
W-16	"G"	BJ	UT	08-11-80		YES
W-14	"G"	BJ	PT	PBT		YES
W-15	"G"	BJ	PT	PBT		YES
B-II-1	"C"	BJ	PT	TEXAS PIPE		YES
W-25	"C"	BJ	PT	PBT		YES
W-24	"G"	BJ	PT	PBT		YES
W-16	"G"	BJ	PT	PBT		YES
INFORMATION ONLY NOT TO BE USED FOR DESIGN, FABRICATION, CONSTRUCTION OR MAINTENANCE						

ORIGINAL COPY WHEN THIS IMPRINT IN RED

MP&L	GG-1	(JB-1)	DWN 04-21-77 S. GRAUS	18 SE NSO ATLANTA	DATE 2/24/80
SYSTEM LPCS	LOCATION CTMT	REF ISO M-1350B	REF P&ID M-1087	DWG NO LP-11	SHT 1
			SK-M-1594	PAGE 1 of 1	



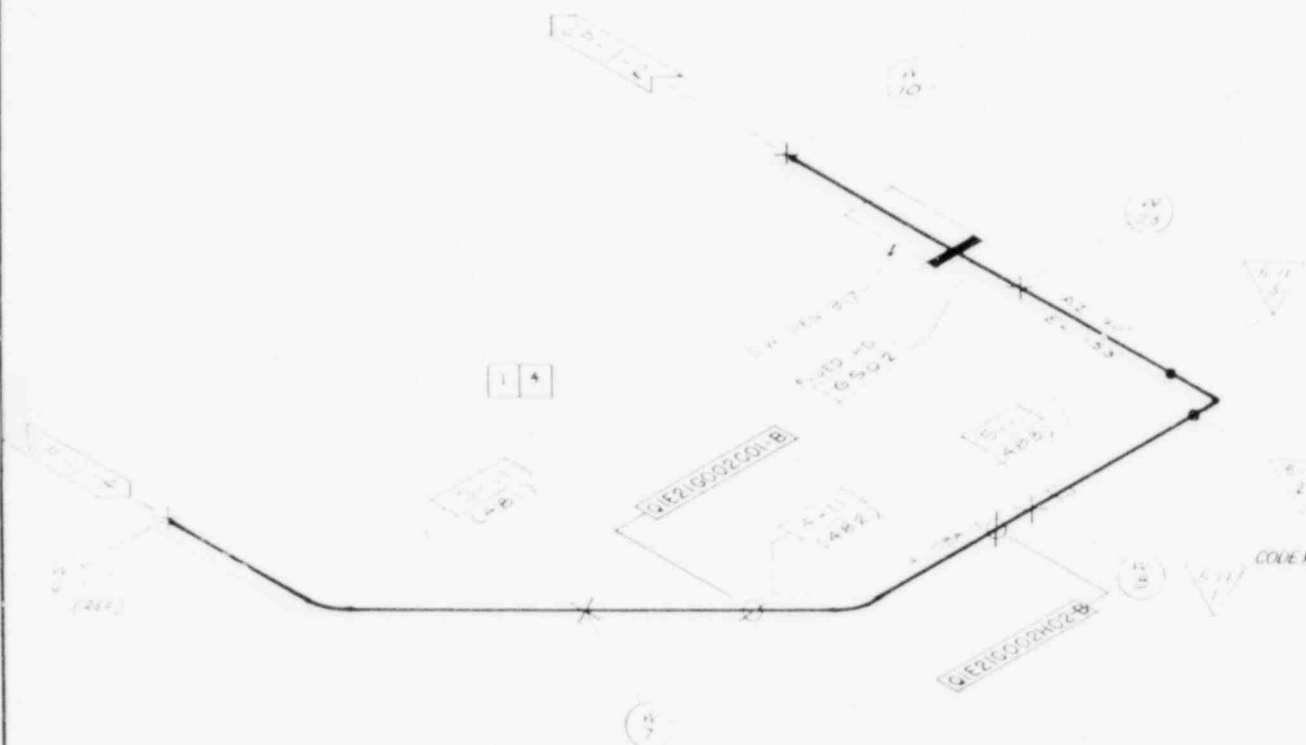
CAL. STANDARD 1.0-7

WFL NO IE200002	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	IG MARK COMPL
IO-II-5	"C"	BJ	UT	05-08-80		YES
IO-II-3	"C"	BJ	UT	05-08-80		YES
IO-II-2	"C"	BJ	UT	05-08-80		YES
IO-II-1	"C"	BJ	UT	05-08-80		YES
W-II	"C"	BJ	UT	08-14-79		YES
6-II-5	"E"	BJ	UT	06-14-79		YES
6-II-2	"C"	BJ	UT	05-08-80		YES
W-21	"C"	BJ	UT	05-08-80		YES
W-12	"G"	BJ	UT	06-12-79		YES
W-13	"G"	BJ	UT	08-14-79		YES
IO-II-5	"C"	BJ	PT	TEXAS PIPE		YES
IO-II-3	"C"	BJ	PT	TEXAS PIPE		YES
IO-II-2	"C"	BJ	PT	TEXAS PIPE		YES
IO-II-1	"C"	BJ	PT	TEXAS PIPE		YES
W-II	"C"	BJ	PT	PBT		YES
6-II-5	"E"	BJ	PT	TEXAS PIPE		YES
6-II-2	"C"	BJ	PT	TEXAS PIPE		YES
W-21	"C"	BJ	PT	PBT		YES
W-12	"G"	BJ	PT	PBT		YES
W-13	"G"	BJ	PT	PBT		YES
VALVE FLOOR	BOLTING (36)	B-G-2	VT			
RO3-A	HANGER	B-K-2	VT			N/A
RO2-A	HANGER	B-K-2	VT			N/A
HO1-D	HANGER	B-K-2	VT			N/A
RO1-A	HANGER	B-K-2	VT			N/A
RO7-A	HANGER	B-K-2	VT			N/A

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GENERAL  ELECTRIC

PROJECT	MP&L	GG-I	(JB-I)	MADE BY D. S. W S. GRAUS	BASE - NSO ATLANTA	DATE
SYSTEM	LPCS	LOCATION	CTMT	REF. NO. M-1087	ISS. NO. LP-II	REV.
			REF. NO. M-1350B	SK. M-1594	PAGE 1 of 1	2

[illegible]

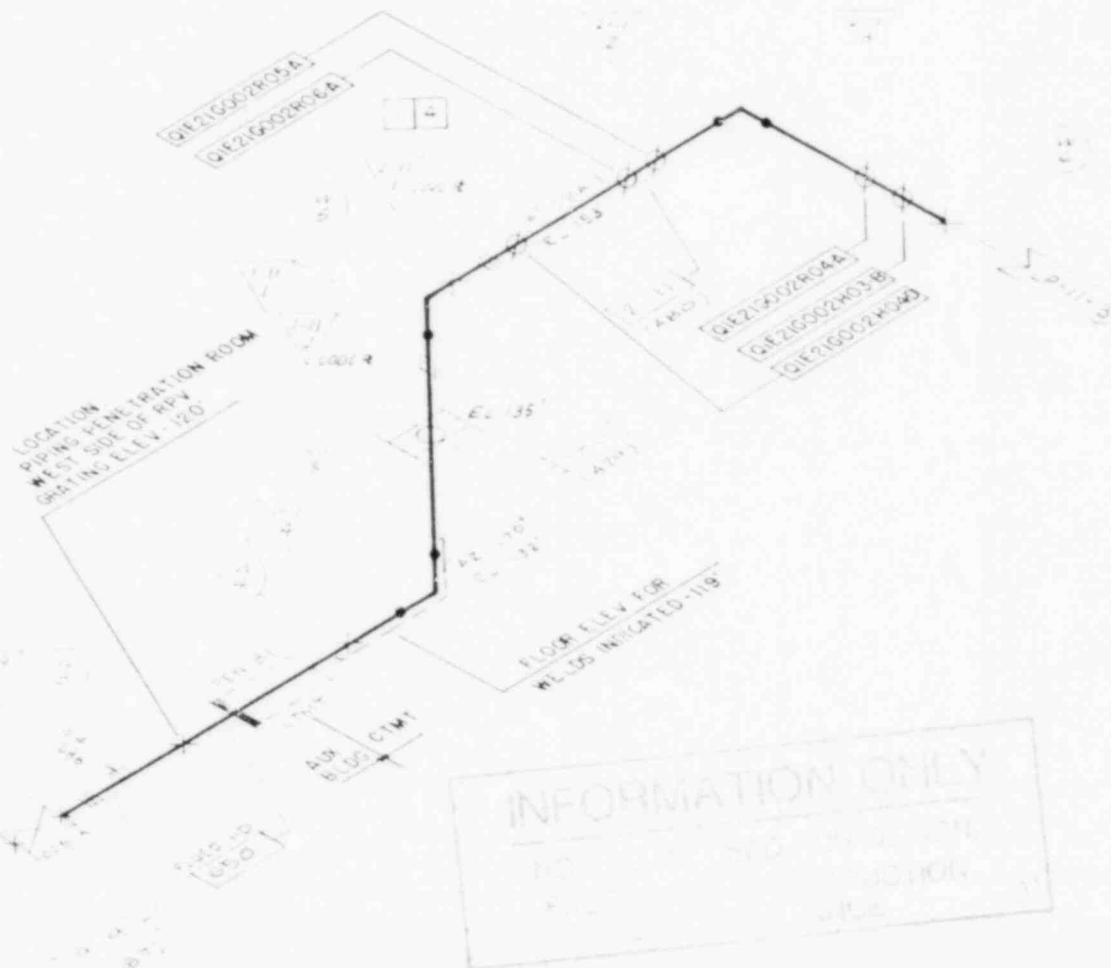
CAL. STANDARD ID # 7

LP-Q-2

ORIGINAL COPY WHEN THIS IMPRINT IN RED

GENERAL  ELECTRIC

PROJECT MP&L	GG-I	(JB I)	MADE BY 01-08-79 S. GRAUS	ISSUE - NSO ATLANTA	DATE
SYSTEM LPCS	COLLATION CTMT	REF. QWG M-1350B	REF. FILE M-1087	INQ. QWG AD LP-II	EXT.
			SK. M-1594	PAGE 1 of 1	



WEL NO (E 21G002)	WEL DESIGN	CODE CAT	TYPE EXAM	EX W TIME PERIOD	ACCESS SATIS	IS MARK COMPL
W-1	"G"	CF	UT	08-28-79		YES
W-2	"G"	BJ	UT	08-15-79		YES
W-3	"C"	BJ	UT	08-15-79		YES
W-4	"E"	BJ	UT	06-07-79		YES
I-II-4	"C"	BJ	UT	08-14-79		YES
I-II-3	"C"	BJ	UT	08-14-79		YES
I-II-1	"C"	BJ	UT	08-14-79		YES
W-5	"C"	BJ	UT	05-08-80		YES
2-II-2	"C"	BJ	UT	05-08-80		YES
2-II-3	"C"	BJ	UT	05-06-80		YES
W-6	"E"	BJ	UT	06-13-79		YES
W-1	"G"	CF	PT	01-27-81		YES
W-2	"G"	BJ	PT	PBT		YES
W-3	"C"	BJ	PT	PBT		YES
W-4	"E"	BJ	PT	PBT		YES
I-II-4	"C"	BJ	PT	TEXAS PIPE		YES
I-II-3	"C"	BJ	PT	TEXAS PIPE		YES
I-II-1	"C"	BJ	PT	TEXAS PIPE		YES
W-5	"C"	BJ	PT	PBT		YES
2-II-2	"C"	BJ	PT	TEXAS PIPE		YES
2-II-3	"C"	BJ	PT	TEXAS PIPE		YES
W-6	"E"	BJ	PT	PBT		YES
HO4-D	HANGER	B-K-2	VT			N/A
RO6-A	HANGER	B-K-2	VT			N/A
RO5-A	HANGER	B-K-2	VT			N/A
RO4-A	HANGER	B-K-2	VT			N/A
HO3-B	HANGER	B-K-2	VT			N/A

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GENERAL ELECTRIC

PROJECT MP&L	GG-1	(JB-1)	DATE 01-03-79	ISSUE N50	REV A
SYSTEM LPCS	LOCATION CTMT	REF ID M-1350B	REF ID M-1087	REF ID LP-II	REV 4
			SK M-1594	PAGE 1 of 1	

HP - HPCS SYSTEM - E22

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3

DRAWING SYMBOLS	LETTER SYMBOLS	PIPING SYSTEMS	WELDING CONFIGURATION
       	Welding Configuration LONGITUDINAL SEAM WELD FILLET WELD GROOVE WELD BUTT JOINT FLANGE NOZZLE VALVE ANCHOR	Piping Systems STANDARD LIQUID COOLING STANDARD GAS COOLING LOW PRESSURE COOLING SYSTEM HIGH PRESSURE COOLING SYSTEM REACTOR COOLING WATER CONDENSER COOLING WATER STEAM GENERATOR STEAM TURBINE STEAM ENGINE STEAM PUMP STEAM VALVE STEAM ANCHOR	Welding Configuration LONGITUDINAL SEAM PIPE TO ATTACHMENT PIPE TO FITTING PIPE TO NOZZLE PIPE TO VALVE PIPE TO PUMP PIPE TO ENGINE PIPE TO ANCHOR
       	Abbreviations AUX - AUXILIARY BUILD - BUILDING CL - CENTERLINE CL - CLASS COMP - COMPLETE OR INCOMPLETE CONT - CONTAINMENT DRY - DRYWELL DWG - DRAWING ELEV - ELEVATION FLG - FLANGE HD - HEAD HX - HEAT EXCHANGER ID - IDENTIFICATION IS - INSERVICE INSPECTION MPL - MASTER PARTS LIST N - NORTH OR NOZZLE PEN - PENETRATION	Abbreviations REV - REVISION REV - REACTOR VESSEL RX - REACTOR SCH - SCHEDULE ST - STANDARD STM - STEAM TUR - TURBINE TURB - TURBINE WEL - WELD	Managers A - SNUBBER B - RIGID STRUT C - BOX OR GUIDE D - SPRING E - COMBINATION F - ANCHOR PWR
      	Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve	Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve	Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve Penetration Sleeve
     	Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components	Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components	Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components Limit of Safety Related Piping & Components
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GENERAL ELECTRIC NUCLEAR SERVICE OPERATION NUCLEAR SERVICE OPERATION NUCLEAR SERVICE OPERATION	
LEGEND FOR ISI ISOVETIC DRAWINGS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION NUCLEAR SERVICE OPERATION NUCLEAR SERVICE OPERATION
CONTRACT NO. 36074002	PROJECT NO. 351940000
WORK FOR POWER & LIGHT	PLANT NUCLEAR PLANT

ISI EXAMINATION REQUIREMENTS

- 1 VOLUMETRIC EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, IWB-2600 AND IWC-2600
- 10% VOLUMETRIC EXAMINATION OF 10% OF THE CLASS 2 PIPING WELDS IN ECCS SYSTEMS WHICH ARE PRESSURIZED LESS THAN 200 PSI DURING NORMAL PLANT OPERATION AND ARE NOT EXEMPTED BY OTHER CRITERIA
- 2 SURFACE EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, IWB-2600 AND IWC-2600
- 3 VISUAL EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, IWB-2600 AND IWC-2600
- 4 SYSTEM LEAKAGE AND HYDROSTATIC PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWB-5000
- 5 SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 2 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWC-5000
- 6 SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 3 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWC-5000
- 7 ASME CLASS 2 AND 3 COMPONENTS EXEMPT FROM ANY ISI PER ASME SECTION XI

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3

DWG. NUMBERING SYSTEM

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

EXAMPLE: MS-0-1

DWG. SEQUENCE NO.

"0" DENOTES SYSTEM OUTLINE DWG.

SYSTEM LETTER SYMBOL
(SEE LEGEND SHEET 1)

II. WELD IDENTIFICATION DWGS (ISOMETRICS)

A. ASME CLASS 1 & 2 SYSTEMS

EXAMPLE: FW-11-2

DWG. SEQUENCE NO.

NUMERICAL CODE FOR AREA OR
PLANT WHERE PIPING IS LOCATED
(SEE DWG. 35INB0800007)

SYSTEM LETTER SYMBOL

B. CLASS 3 SYSTEMS

EXAMPLE: CU-103

DWG. SEQUENCE NO.
(BEGINS @ 100)

SYSTEM LETTER SYMBOL

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

SCALE NONE	OR NO JB-1	TITLE LEGEND FOR ISI ISOMETRIC DRAWINGS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV ATLANTA, GEORGIA
CONTRACT NO. 560474002		PROJECT GRAND GULF NUCLEAR PLANT	
MADE FOR MISSISSIPPI POWER & LIGHT		DRAWING NO. 35IN79B0006	REV. A
		SHEET NO. 2 OF 3	

PIPE CLASSES ARE DESIGNATED BY A THREE LETTER CODE. THE FIRST LETTER INDICATES THE PRIMARY FLANGE PRESSURE RATING, THE SECOND LETTER, THE TYPE OF MATERIAL, AND THE THIRD LETTER, THE CODE TO WHICH THE PIPING IS DESIGNED.

FIRST LETTER - PRIMARY PRESSURE RATING

(UNLESS OTHERWISE NOTED, ALL RATINGS ARE IN ACCORDANCE WITH ANSI B16.5)

A SPECIFIC PRESSURE AT SPECIFIC TEMPERATURE

B 2500*

C 1500*

D 900*

E 600*

F 400*

G 300*

H 150*

J 125* ANSI B16.1

K 175* WOG UNDERWRITERS' LABORATORIES, INC.

L 250* ANSI B16.1

X GRAVITY RATING

Y ROOF DRAINS, GRAVITY RATING

ADDITIONAL PRESSURE RATINGS:

M 200* (MANUFACTURER'S RATING)

N 150* WOG

P 100* (MANUFACTURER'S RATING)

R 75* (MANUFACTURER'S RATING)

S 50* WOG

T 25* AWWA (OR MANUFACTURER'S RATING)

Z GENERAL USE AS DESIGNATED ON PIPING CLASS SHEETS

V 150* (MANUFACTURER'S RATING)

SECOND LETTER - MATERIAL

A ALLOY STEEL

B CARBON STEEL

C AUSTENITIC STAINLESS STEEL

D COPPER, BRASS or BRONZE

E ALUMINUM

F CARBON STEEL - COPPER BEARING

G CARBON STEEL - SARAN LINED

H CAST IRON

K PVC

M DURIROD

N CARBON STEEL - GALVANIZED

P CAST IRON - CEMENT LINED

R CARBON STEEL - EPOXY LINED

S DUCTILE IRON - CEMENT LINED

T DELETED

V FRP

W CARBON STEEL - TEFLON LINED

THIRD LETTER - APPLICABLE CODES

A NUCLEAR POWER PLANT COMPONENTS
ASME B31.1 CODE, SECTION III, CLASS 1

B NUCLEAR POWER PLANT COMPONENTS
ASME B31.1 CODE, SECTION III, CLASS 2

C NUCLEAR POWER PLANT COMPONENTS
ASME B31.1 CODE, SECTION III, CLASS 3

D POWER PIPING CODE, ANSI B31.1

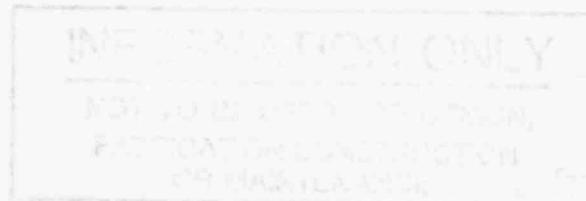
F NATIONAL FIRE PROTECTION ASSOCIATION CODE

G SOUTHERN STANDARD PLUMBING CODE

H POWER BOILERS, ASME B31.1 CODE, SECTION I

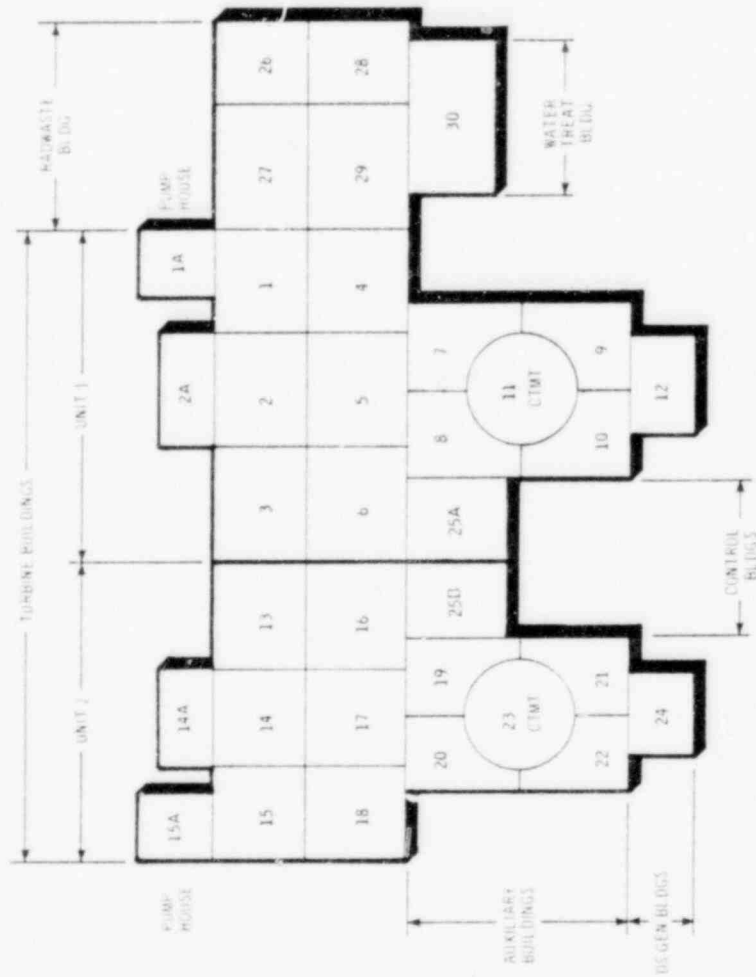
J AMERICAN WATER WORKS ASSOCIATION STANDARDS

Z FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3. DESIGNED PER ANSI B31.1
N-STAMPING, SEISMIC ANALYSIS AND Q-LISTING ARE
NOT REQUIRED.



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SCALE NONE	JOB NO. JB-1	TITLE LETTER CODE FOR PIPING		GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA	
CONTRACT NO. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT		DRAWING NO. 35IN79B0006	REV. A
MADE FOR MISSISSIPPI POWER & LIGHT CO.		DATE 10/10/79			



GRAND GULF NUCLEAR STATION UNITS 1 AND 2

PORT GARDEN, MISSISSIPPI
MISSISSIPPI POWER & LIGHT COMPANY

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FARMER'S MARKET
OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED

DATE	JOB NO.	TITLE	GENERAL ELECTRIC
NONE	JOB-1	KEY PLAN	NUCLEAR SERVICE OPERATION
CONTRACT NO.	360N74002	AREA LOCATIONS	INSTALLATION & SERVICE ENGINEERING DIV.
MADE FOR	MISSISSIPPI POWER & LIGHT	PROJECT	ATLANTA, GEORGIA
		GRAND GULF NUCLEAR PLANT	DRAWING NO.
			BBN 80030007
			REV. A
			DATE: 10-1-68

INDEX TO ISOS FOR E-22 SYSTEM

	REV
COMPOSITE: HP-0-1	A
FOR ISOS: HP-8-1	A
HP-8-2	A
HP-8-3	A
HP-8-4	A
HP-8-5	A
HP-8-6	A
HP-8-7	A
HP-8-8	A
HP-8-9	A
HP-8-10	A
HP-II-1	A
HP-II-2	A
HP-II-3	A
HP-II-4	A

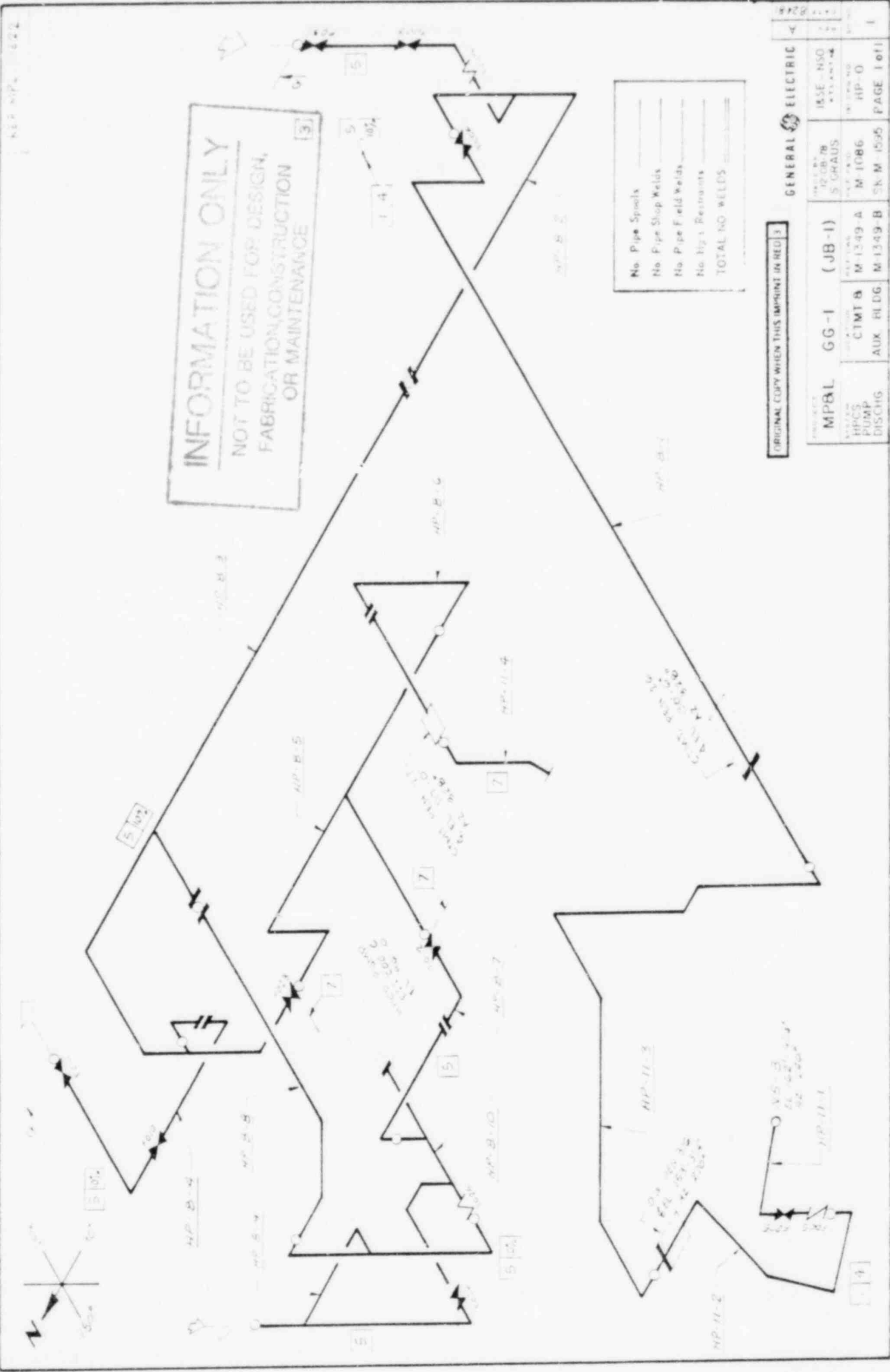
	REV
COMPOSITE: HP-0-2	A
FOR ISOS: HP-8-11	A
HP-8-12	A
HP-8-13	A
HP-II-5	A

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ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

REV A
DATE 4-80

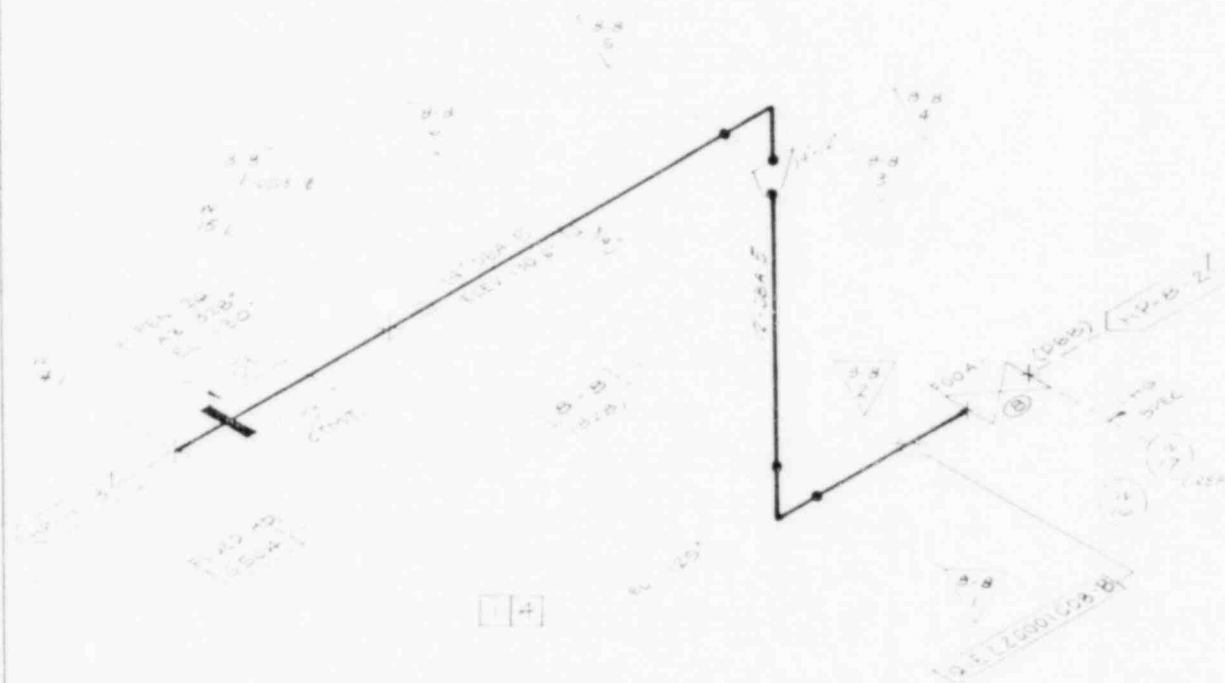
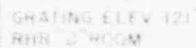


INFORMATION ONLY
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OR MAINTENANCE

No Pipe Spools
No Pipe Shop Welds
No Pipe Field Welds
No Pipe Restraints
TOTAL NO WELDS

ORIGINAL COPY WHEN THIS IMPRINT IN RED

GENERAL ELECTRIC			
PROJECT	MP&L	GG-1	(JB-1)
DESIGN	CTMT B	M 1349-A	
PUMP	AUX. HLDG.	M 1349-B	
DISCHG.			
DATE			
BY			
CHECKED			
APPROVED			
ISSUE NO.			
HP-O			
PAGE			1 of 1



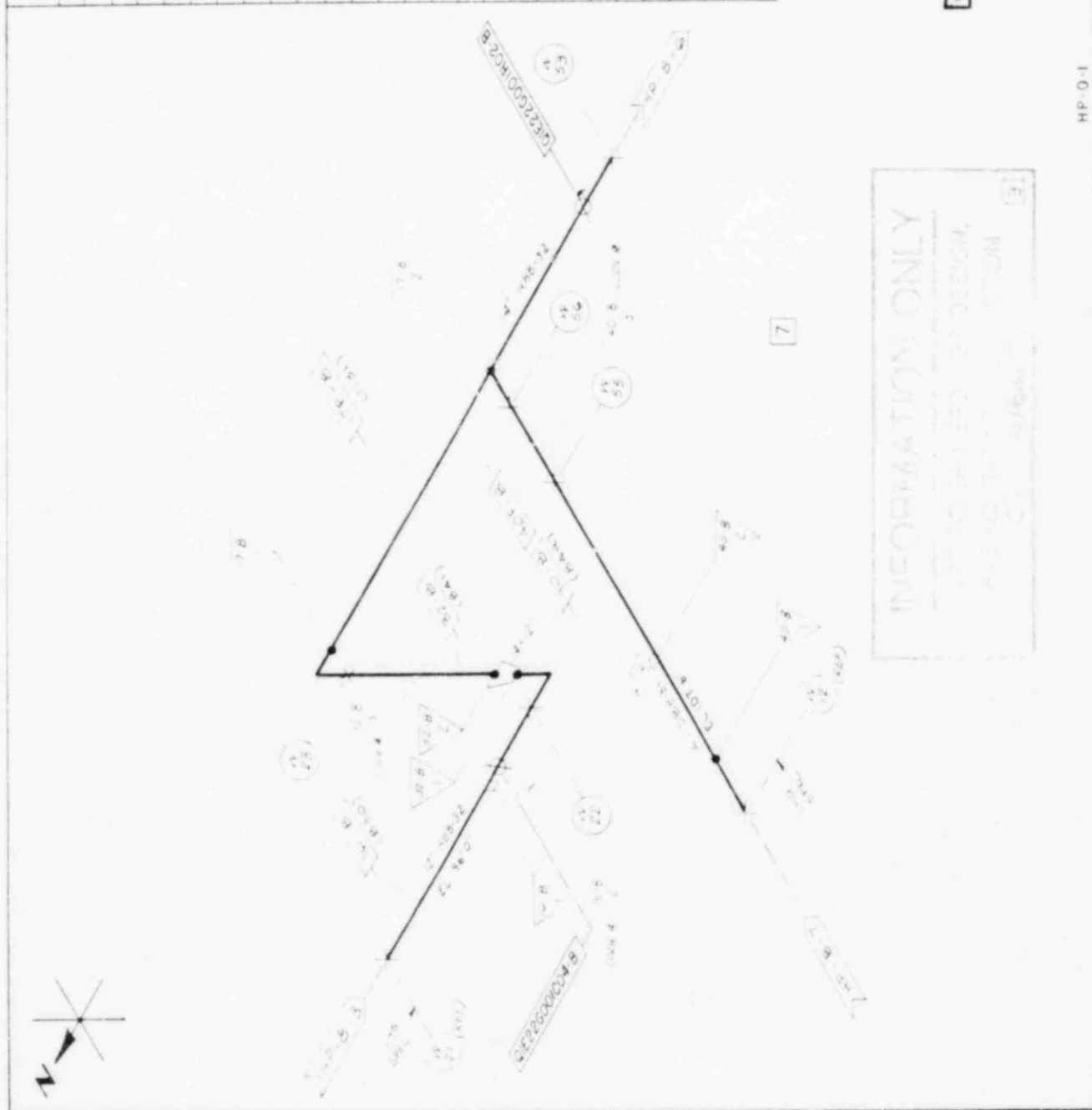
CAL STANDARD: 0-6, -15, -7

HP-Q-1

MPL NE BZZ-001	WELD DESCR	CODE CAL	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMP
W-16	"G"	BJ	UT	08-13-79		YES
B-B-1	"C"	BJ	UT	08-13-79		YES
B-B-2	"C"	BJ	UT	08-13-79		YES
B-B-3	"C"	BJ	UT	08-13-79		YES
B-B-4	"C"	BJ	UT	08-13-79		YES
B-B-5	"C"	BJ	UT	08-13-79		YES
W-15	"E"	BJ	UT	08-13-79		YES
W-14	"C"	BJ	UT	08-13-79		YES
W-16	"G"	BJ	PT	PBT		YES
B-B-1	"C"	BJ	PT	TEXAS PIPE		YES
B-B-2	"C"	BJ	PT	TEXAS PIPE		YES
B-B-3	"C"	BJ	PT	TEXAS PIPE		YES
B-B-4	"C"	BJ	PT	TEXAS PIPE		YES
B-B-5	"C"	BJ	PT	TEXAS PIPE		YES
B-B-6	"C"	BJ	PT	TEXAS PIPE		YES
W-15	"E"	BJ	PT	PBT		YES
W-14	"C"	BJ	PT	PBT		YES
VALVE F004	BOLTING	B-G-2	VT	OG-2-3-BI		N/A
COB-B	HANGER	B-K-2	VI			N/A

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MP&L	GG-1	(JB-1)	OWN 9-20-78 S GRAUS	BASE NSO ATLANTA	2
SYSTEM	LOCATION	REF ISO	REF PAID	DWA NE	SUT
HPCS	AUX BLDG	M-1349A	M-1086 SK-M-1335	HP-8 PAGE 1061	1



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MPBL	GG-1	(JB-1)
SYSTEM	HPCS	AUX. BLDG.	M-1349A

HP-0-1

[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

[illegible]

HP-O-1

[illegible]

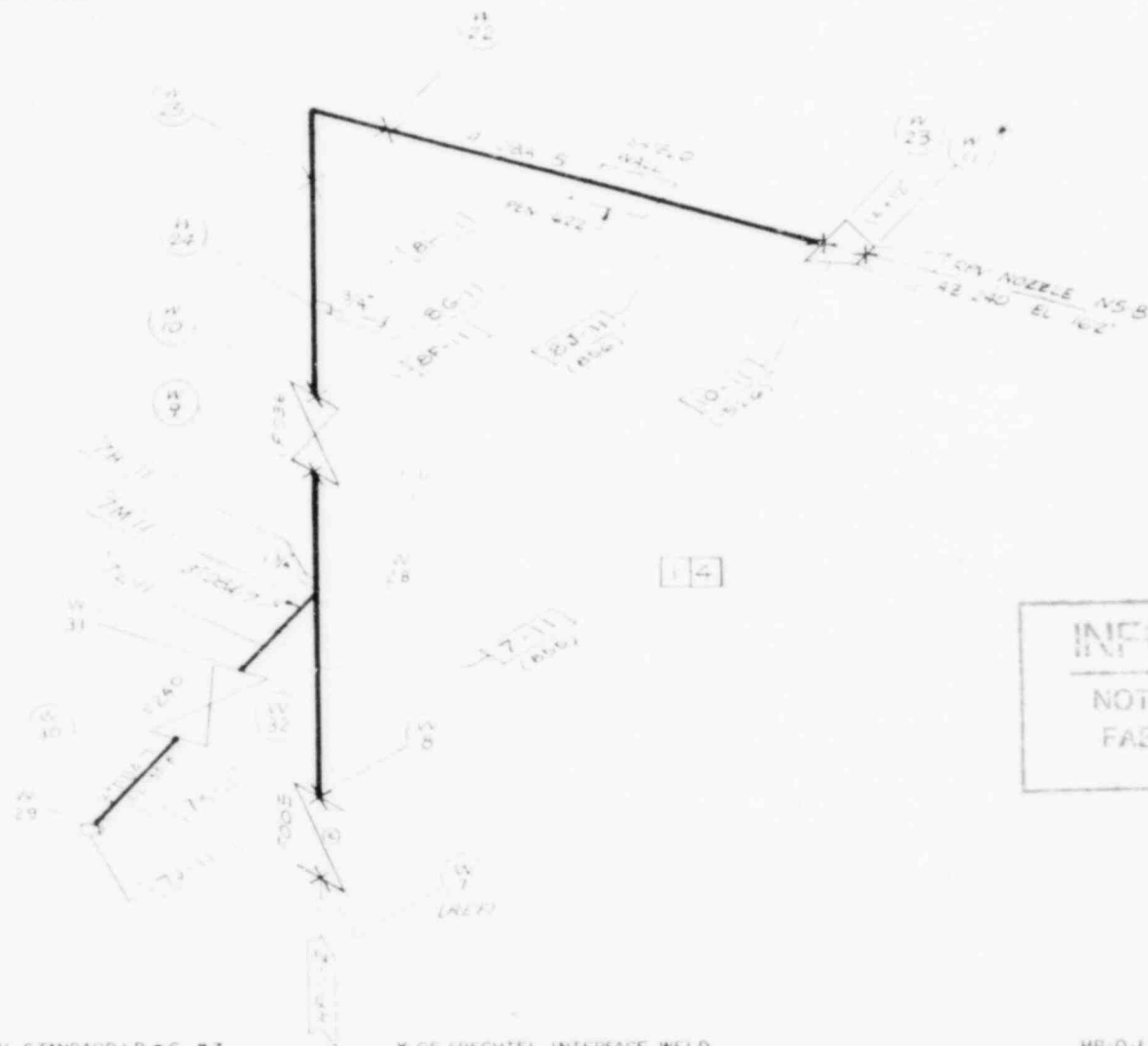
ORIGINAL COPY WHEN THIS IMPRINT IN RED

GENERAL ELECTRIC

MP8L	GG-1 (JB-1)	MADE IN U.S.A. S. GRAUS	MADE IN U.S.A. ATLANTA	9
HPC5	AUX BLDG	MADE IN U.S.A. M 13 494	MADE IN U.S.A. HP 8 FAG (off)	9

HP-O-I

GRATING ELEV 147'



MPL NR 1E22G005	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS DATE	I D MARK COMP
W-8	"G"	BJ	UT	08-15-79		YES
W-28	"G"	BJ	UT	04-23-81		YES
W-9	"G"	BJ	UT	08-15-79		YES
W-10	"G"	BJ	UT	08-11-80		YES
W-25	"C"	BJ	UT	08-11-80		YES
W-22	"C"	BJ	UT	08-11-80		YES
W-23	"C"	BJ	UT	08-13-80		YES
W-11	"J"	BJ	UT	08-13-80		YES
W-32	"C"	BJ	PT	PBT		YES
W-31	"G"	BJ	PT	PBT		YES
W-30	"G"	BJ	PT	PBT		YES
W-29	"C"	BJ	PT	PBT		YES
W-8	"G"	BJ	PT	PBT		YES
W-28	"G"	BJ	PT	PBT		YES
W-9	"G"	BJ	PT	PBT		YES
W-10	"G"	BJ	PT	PBT		YES
W-25	"C"	BJ	PT	PBT		YES
W-22	"C"	BJ	MT	PBT		YES
W-23	"C"	BJ	PT	PBT		YES
W-11	"J"	BJ	PT	PBT		YES
VALVE F005	BOLTS(36)	B-G 2	VT	06-23-81		N/A

INFORMATION ONLY

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OR MAINTENANCE

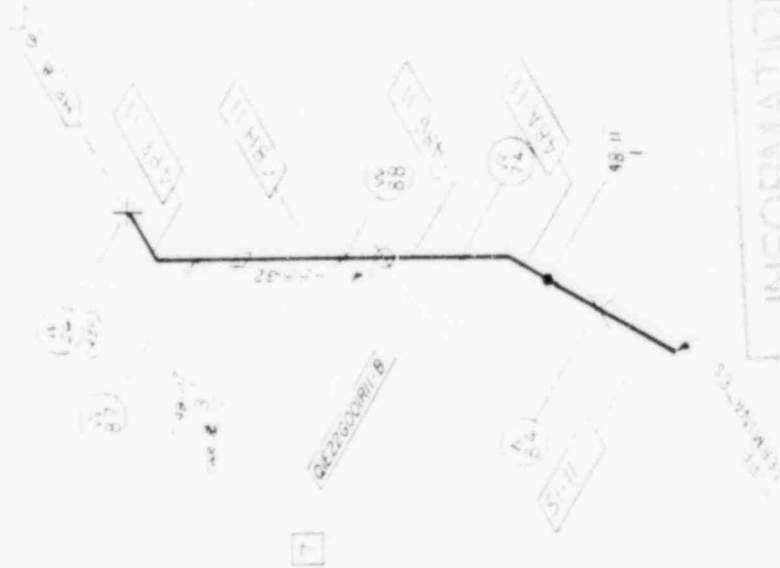
ORIGINAL COPY WHEN THIS IMPRINT IN RED

CAL STANDARD ID #6, #7

* GE/BECHTEL INTERFACE WELD

HP-0-1

MP&L	GG-1	(JB-1)	OWN 04-21-77 S GRAUS	IE 3E NSO ATLANTA	REV A	DATE 6/24/81
SYSTEM HPCS	LOCATION DRYWELL	REF ISO M-1349B	REF P&ID M-1086 SK-M-1595	DWG NR HP-11	SHT 1	

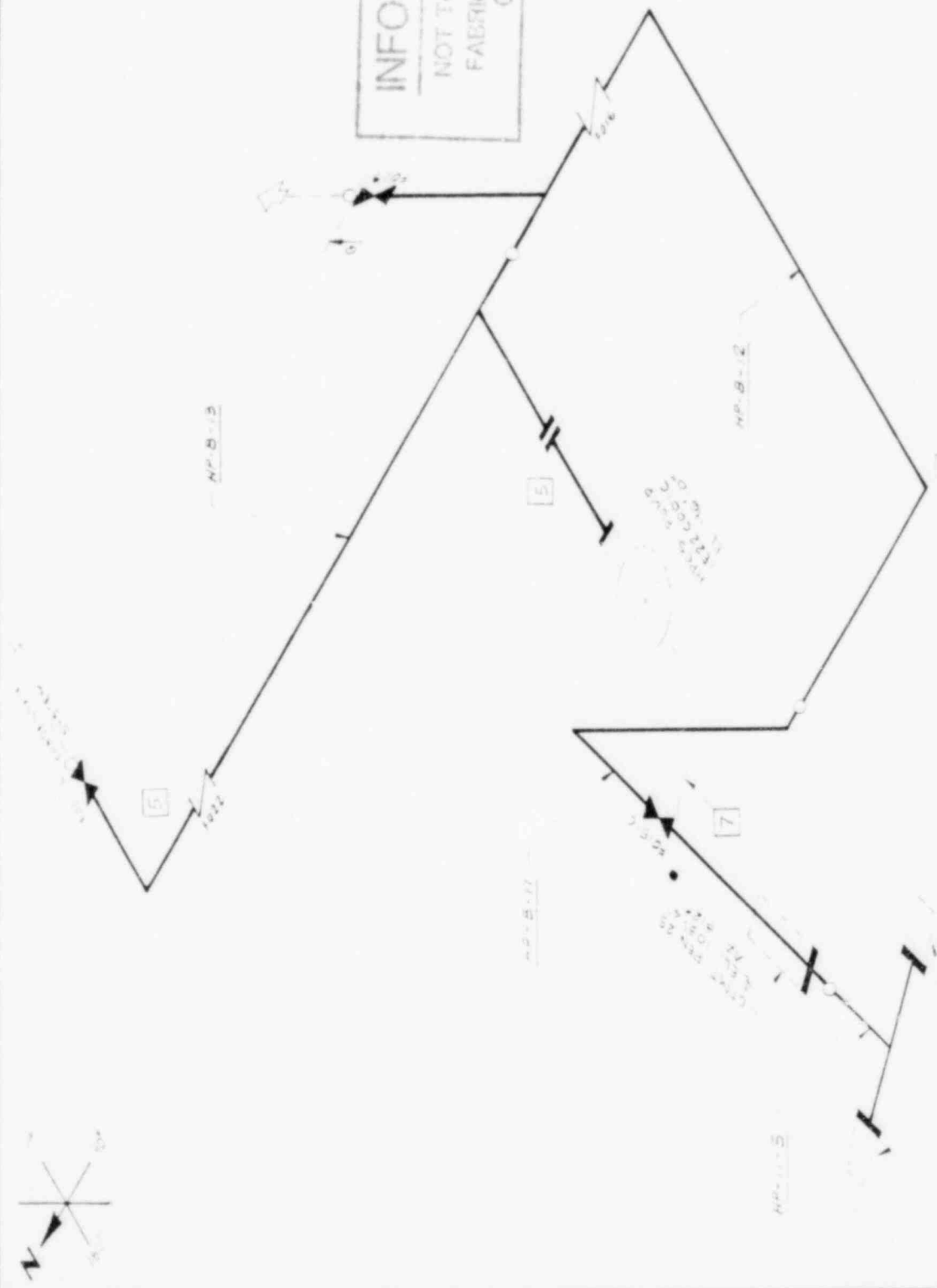
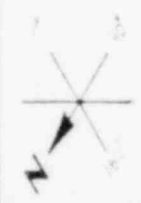


HP-O-;[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED

GENERAL  ELECTRIC

PROJECT	MP&L	GG-1	(JB-1)	DATE REC'D 12-18-78	DATE-MSO ATLANTA	4
SUBJECT	HPCS	CTMT	M-1359A	M-1086	HP-II	
				SK M-1595	PAGE 1 of 1	

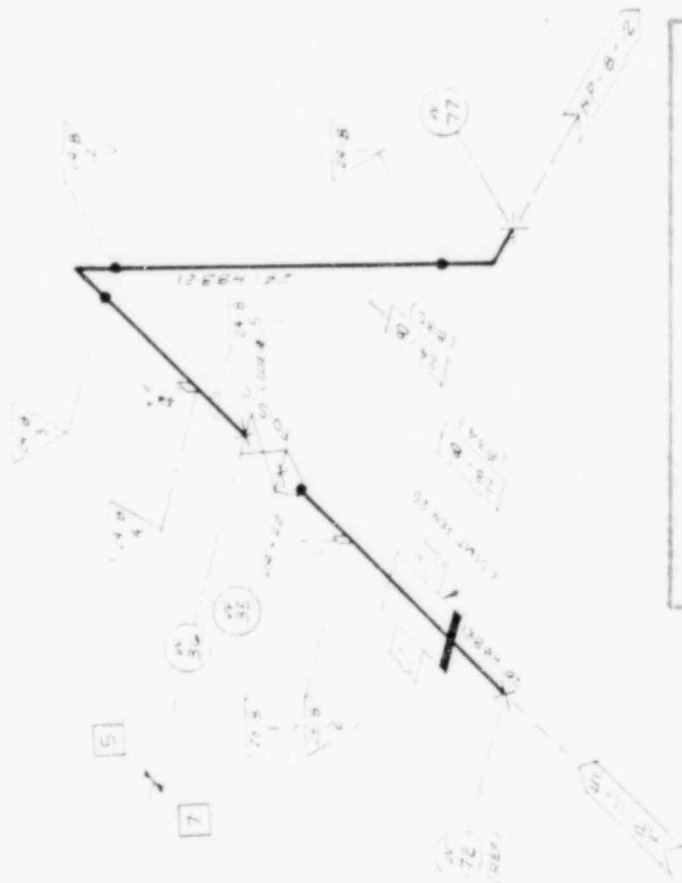


INFORMATION ONLY
NOT TO BE USED FOR DESIGN,
FABRICATION, CONSTRUCTION
OR MAINTENANCE

No. Pipe Spools	_____
No. Pipe Shop Welds	_____
No. Pipe Field Welds	_____
No. High Restraints	_____
TOTAL NO. WELDS	_____

ORIGINAL COPY WHEN THIS IMPRINT IN RED

PROJECT		GENERAL ELECTRIC	
MP&L	GG-1 (JB-1)	12-18-78	185E-N50
SECTION	CTMT B	W-1086	ATLANTA
PUMP	AUX BLDG	SK-M-1595	HP-O
PAGE 1 of 1		2	



ORIGINAL COPY WHEN THIS IMPRINT APPEARS		GENERAL ELECTRIC		10/20/78
PROJECT		10/20/78		10/20/78
MP&L GG-1 (JB-1)		S GRAUS		10/20/78
SYSTEM		M-1086		10/20/78
LOCATION		M-1086		10/20/78
AUX BLDG		SK-M-1595		10/20/78
HPCS		PAGE 1 of 1		10/20/78

GENERAL ELECTRIC

GENERAL ELECTRIC

CENTRAL

100

MINOR SILL

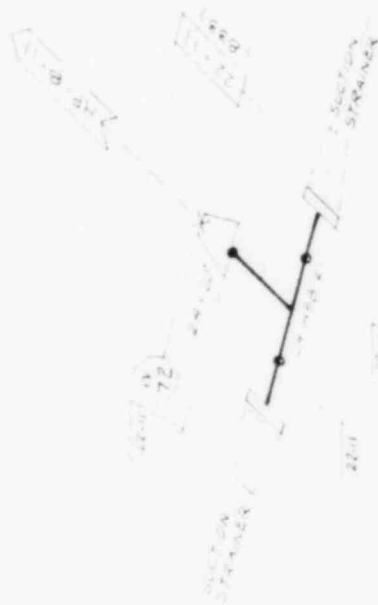
ALL COPY/RIGHTS

ORNG

1000

100

HP-0-2



ORIGINAL COPY WITH THIS IMPRINT IN RED 3

HP-0-2

FWLC - FEEDWATER LEAKAGE
CONTROL SYSTEM-E38

INFORMATION ONLY

NOT TO BE USED FOR DESIGN
FABRICATED BY THE MANUFACTURER

DRAWING

SYMBOLS



SPOOL I.D. NO.
VENDOR DWG NO.
IN PARENTHESES



LINE SIZE &
SPECIFICATION
DESIGNATION

SHOP WELD
I.D. NO.



FIELD WELD
I.D. NO.

LONGITUDINAL SEAM
WELD I.D. NO.



DWG CONTINUATION
(ARROW POINTS IN
DIRECTION OF FLOW)



WELD COUNT ON
CONTINUATION SHEET
AND SHOWN THIS
SHEET FOR REFERENCE



VALVE I.D. NO.

INDICATES PRESSURE
RETAINING BOLTING



CHECK VALVE
I.D. NO.



FLG. BUTTERFLY
VALVE I.D. NO.



ELL



REDUCER



TEE



STUB-IN FITTING
(WEL, SOL, ETC)



PLUGGED STUB-IN



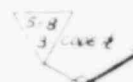
WELD CAP



SCREWED CAP



PLAIN END



VENDOR CODE TAG
& SHOP WELD NO.



PENETRATION
SLEEVE



PENETRATION
SLEEVE W/ FLUED
HEAD OR SEAL
PLATE



"IN-LINE"
PENETRATION



LIMIT OF SAFETY
RELATED PIPING
& COMPONENTS



POINT OF DESIGN
SPECIFICATION
CHANGE

LETTER

SYMBOLS

PIPING SYSTEMS

CC - CONTAINMENT COOLING
CD - CONDENSATE
CG - COMBUSTIBLE GAS
CR - CHILLED WATER
CS - COND/RW STORAGE & TRANSFER
CU - REACTOR WATER CLEANUP
CW - COMP COOLING WATER
DG - DIESEL GENERATOR
DR - FLOOR & EQUIPMENT DRAINS
DW - DOMESTIC WATER
EC - FUEL POOL COOLING & CLEANUP
FD - FILTER DEMIN (FPCU)
FW - FEEDWATER
HP - HIGH PRESSURE CORE SPRAY
IA - INSTRUMENT AIR

LC - STANDBY LIQUID CONTROL
LD - LEAK DETECTION
LP - LOW PRESSURE CORE SPRAY
LR - LEAK RATE TEST SYSTEM
MS - MAIN STEAM
RD - CONTROL ROD DRIVE
RF - FILTER DEMIN (RWCU)
RH - RESIDUAL HEAT REMOVAL
RI - REACTOR CORE ISOLATION COOLING
RR - REACTOR RECIRCULATION
RV - MAIN STEAM RELIEF VALVE
SA - SERVICE AIR
SC - SUPPRESSION POOL CLEAN UP
SD - MAIN STEAM DRAINS
SM - SUPP POOL MAKE UP
SW - PLANT SERVICE WATER
WS - STANDBY SERVICE WATER

WELDING CONFIGURATION

A - LONGITUDINAL SEAM
B - PIPE TO ATTACHMENT
C - PIPE TO FITTING
D - PIPE TO NOZZLE
E - PIPE TO PIPE
F - PIPE TO PUMP
G - PIPE TO VALVE
H - PIPE TO WELDLET
I - FITTING TO FITTING
K - FITTING TO PUMP
L - FITTING TO VALVE
M - VALVE TO VALVE
N - PIPE TO SWEEPLET
P - PIPE TO SOCKLET
R - CODE TAG WELD

ABBREVIATIONS

AUX - AUXILIARY
BLDG - BUILDING
CL - CENTERLINE
CL - CLASS
COMP - COMPLETE OR COMPOUND
CTMT - CONTAINMENT
DW - DRYWELL
DWG - DRAWING
EL - ELEVATION
FLG - FLANGE
HD - HEAD
HX - HEAT EXCHANGER
ID - IDENTIFICATION
ISI - INSERVICE INSPECTION
MPL - MASTER PARTS LIST
N - NORTH OF NOZZLE
PEN - PENETRATION

REV - REVISION
RPV - REACTOR VESSEL
RX - REACTOR
SCH - SCHEDULE
SHT - SHEET
SOL - SOCKLET
STD - STANDARD
STM - STEAM
TDL - THREADED
TURB - TURBINE
WOL - WELDLET

HANDS

A - S' R
B - RIGID STRUT
C - BOX OR GUIDE
D - SPRING
E - COMBINATION
F - ANCHOR
PWR

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OR MAINTENANCE

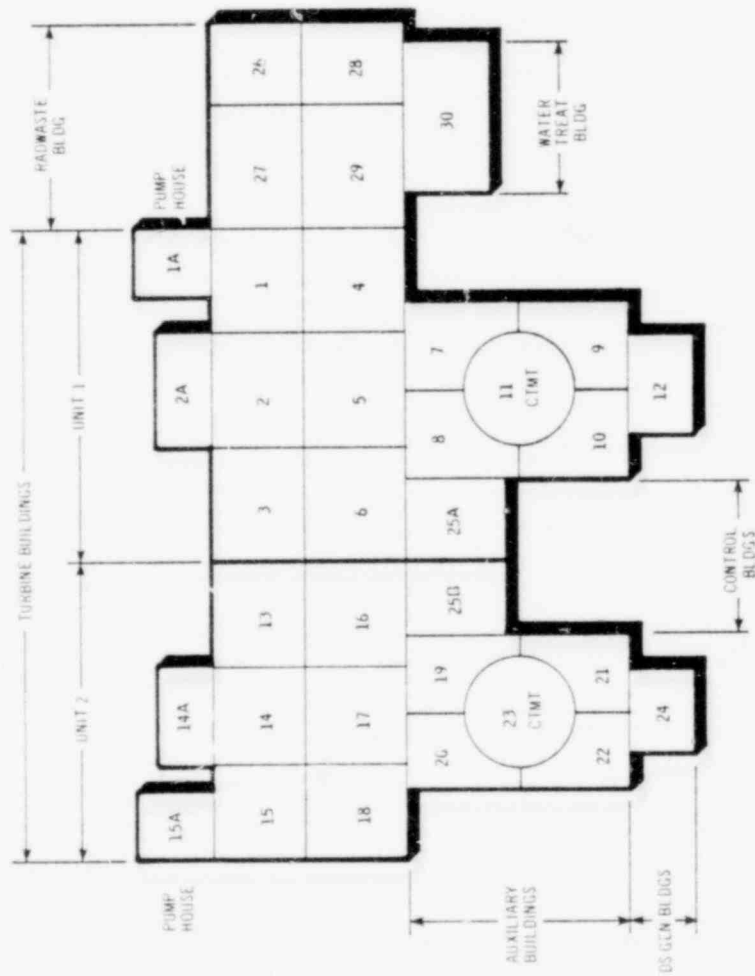
ORIGINAL COPY WHEN THIS IMPRINT IN RED

SCALE NONE	JOB NO. JB-1	TITLE LEGEND FOR ISI ISOMETRIC DRAWINGS
CONTRACT NO. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT
MADE FOR MISSISSIPPI POWER & LIGHT		

GENERAL ELECTRIC

NUCLEAR SERVICE OPERATION
INSTALLATION & SERVICE ENGINEERING DIV.
ATLANTA, GEORGIA

DRAWING NO. 351N79B0006	REV A
----------------------------	----------



INFORMATION ONLY
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OR CONSTRUCTION PURPOSES
OR FOR ANY OTHER PURPOSE

GRAND GULF NUCLEAR STATION UNITS 1 AND 2
PORT GIBSON, MISSISSIPPI
MISSISSIPPI POWER & LIGHT COMPANY

ORIGINAL COPY WHEN THIS IMPRINT IN RED

SCALE NONE	JOB NO. JB-1	TITLE KEY PLAN AREA LOCATIONS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA
CONTRACT NO. 360N74002	WORK FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO. 35IN8000007 REV. 1

PIPE CLASSES ARE DESIGNATED BY A THREE LETTER CODE. THE FIRST LETTER INDICATES THE PRIMARY FLANGE PRESSURE RATING; THE SECOND LETTER, THE TYPE OF MATERIAL; AND THE THIRD LETTER, THE CODE TO WHICH THE PIPING IS DESIGNED.

FIRST LETTER - PRIMARY PRESSURE RATING

(UNLESS OTHERWISE NOTED, ALL RATINGS ARE IN ACCORDANCE WITH ANSI B16.5)

A SPECIFIC PRESSURE AT SPECIFIC TEMPERATURE

B 2500#

C 1500#

D 900#

E 600#

F 400#

G 300#

H 150#

J 125# ANSI B16.1

K 175# WOG UNDERWRITERS' LABORATORIES, INC

L 250# ANSI B16.1

X GRAVITY RATING

Y ROOF DRAINS, GRAVITY RATING

ADDITIONAL PRESSURE RATINGS:

M 200# (MANUFACTURER'S RATING)

N 150# WOG

P 100# (MANUFACTURER'S RATING)

R 75# (MANUFACTURER'S RATING)

S 50# WOG

T 25# AWWA (OR MANUFACTURER'S RATING)

Z GENERAL USE AS DESIGNATED ON PIPING CLASS SHEETS

V 150# (MANUFACTURER'S RATING)

SECOND LETTER - MATERIAL

A ALLOY STEEL

B CARBON STEEL

C AUSTENITIC STAINLESS STEEL

D COPPER, BRASS or BRONZE

E ALUMINUM

F CARBON STEEL - COPPER BEARING

G CARBON STEEL - SARAN LINED

H CAST IRON

K PVC

M DURIUM

N CARBON STEEL - GALVANIZED

P CAST IRON - CEMENT LINED

R CARBON STEEL - EPOXY LINED

S DUCTILE IRON - CEMENT LINED

T DELETED

V FRP

W CARBON STEEL - TEFLON LINED

THIRD LETTER - APPLICABLE CODES

A NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 1

B NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 2

C NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 3

D POWER PIPING CODE, ANSI B31.1

F NATIONAL FIRE PROTECTION ASSOCIATION CODE

G SOUTHERN STANDARD PLUMBING CODE

H POWER BOILERS, ASME BBPV CODE, SECTION I

J AMERICAN WATER WORKS ASSOCIATION STANDARDS

Z FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3. DESIGNED PER ANSI B31.1.
N-STAMPING, SEISMIC ANALYSIS AND Q-LISTING ARE
NOT REQUIRED.

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SCALE NONE	JOB NO. JB-1	TITLE LETTER CODE FOR PIPING	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA	
CONTRACT NO. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO. 351N7980006	REV. A
MADE FOR MISSISSIPPI POWER & LIGHT CO.			SHEET NO. 3 OF 3	

ISI EXAMINATION REQUIREMENTS

1. VOLUMETRIC EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, (IWB-2600) AND (IWC-2600).
- 10% VOLUMETRIC EXAMINATION OF 10% OF THE CLASS 2 PIPING JOINTS IN ECCS SYSTEMS WHICH ARE PRESSURIZED LESS THAN 200 psig DURING NORMAL PLANT OPERATION AND ARE NOT EXEMPTED BY OTHER CRITERIA
2. SURFACE EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, (IWB-2600) AND (IWC-2600)
3. VISUAL EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, (IWB-2600) AND (IWC-2600)
4. SYSTEM LEAKAGE AND HYDROSTATIC PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, (IWA-5000) AND (IWB-5000)
5. SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 2 COMPONENTS PER ASME SECTION XI, (IWA-5000) AND (IWC-5000)
6. SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 3 COMPONENTS PER ASME SECTION XI, (IWA-5000) AND (IWD-5000)
7. ASME CLASS 2 AND 3 COMPONENTS EXEMPT FROM ANY ISI PER ASME SECTION XI.

DWG. NUMBERING SYSTEM

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

EXAMPLE: MS-O-1

DWG SEQUENCE NO.

O DENOTES SYSTEM OUTLINE DWG

-SYSTEM LETTER SYMBOL
(SEE LEGEND SHT. 1)

II. WELD IDENTIFICATION DWGS. (ISOMETRICS)

A. ASME CLASS 1 & 2 SYSTEMS

EXAMPLE: FW-11-2

DWG. SEQUENCE NO.

NUMERICAL CODE FOR AREA OF
PLANT WHERE PIPING IS LOCATED
(SEE DWG 35INB0B0007)

- SYSTEM LETTER SYMBOL

B. CLASS 3 SYSTEMS

EXAMPLE: CU-103

DWG SEQUENCE NO.
(BEGINS @ 100)

-- SYSTEM LETTER SYMBOL

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

SCALE NONE	JOB NO JB-1	TITLE LEGEND FOR 1:1 ISOMETRIC DRAWINGS	GENERAL  ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV ATLANTA, GEORGIA	
CONTRACT NO 360N7400Z		PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO 33IN79B0006	REV A
MADE FOR MISSISSIPPI POWER & LIGHT			SHEET NO 2 OF 3	

INDEX TO ISOS FOR E-38 SYSTEM

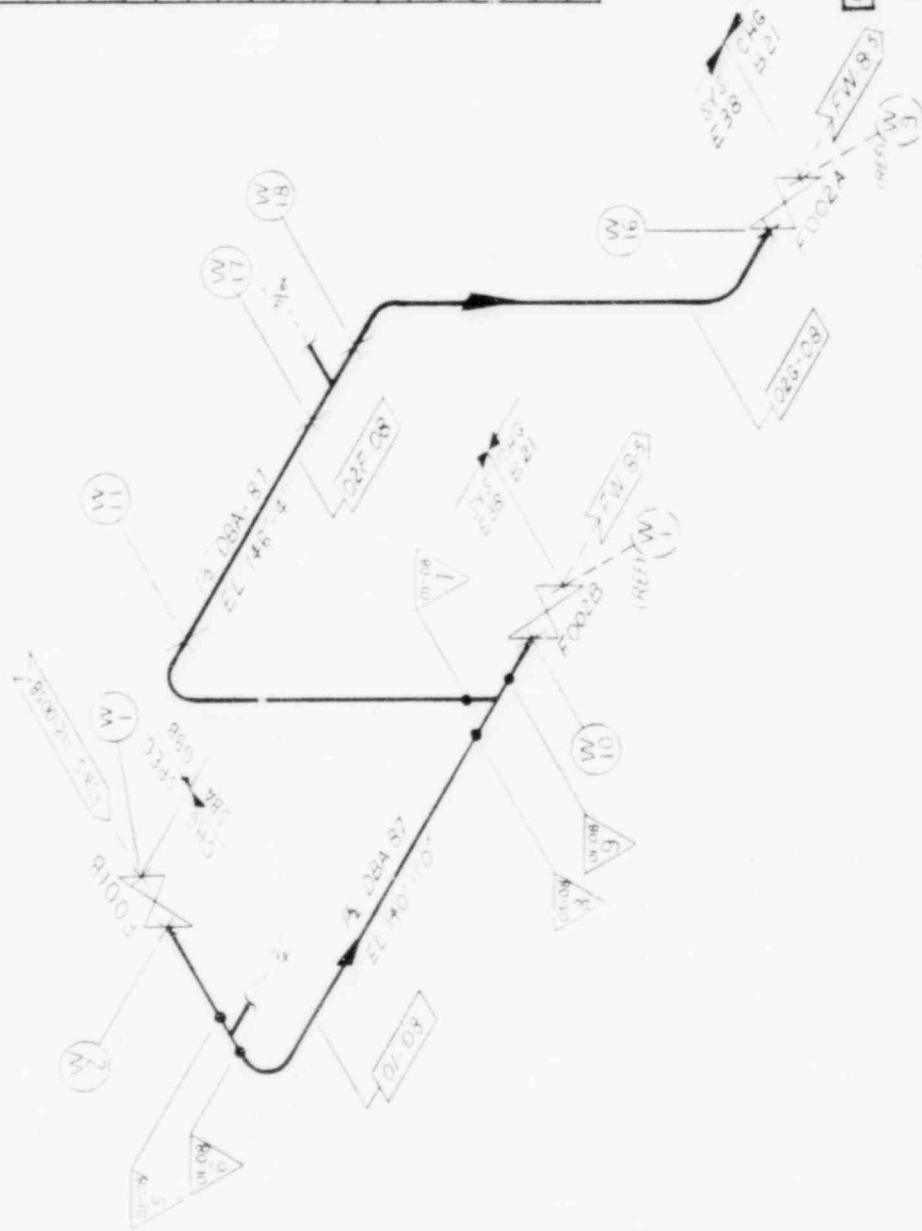
COMPOSITE: FWLC-0-1
ISOS: FWLC-8-1

REV
A
A

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OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED

REV	DATE
A	1966



ORIGINAL COPY WHEN THIS IMPRINT IN RED		GENERAL ELECTRIC		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 	
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GENERAL ELECTRIC

FWIC-0-1

MSIV - MAIN STEAM ISOLATION
VALVE LEAKAGE CONTROL SYSTEM - E32

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FABRICATION, CONSTRUCTION
OR MAINTENANCE

3

DRAWING

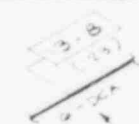
SYMBOLS

LETTER

SYMBOLS

PIPING SYSTEMS

WELDING CONFIGURATION



SPOOL I.D. NO.
W/ VENDOR DWG NO.
IN PARENTHESES



LINE SIZE &
SPECIFICATION
DESIGNATION

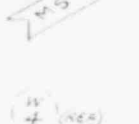
SHOP WELD
I.D. NO.



FIELD WELD
I.D. NO.



LONGITUDINAL SEAM
WELD I.D. NO.



DWG. CONTINUATION
(ARROW POINTS IN
DIRECTION OF FLOW)



WELD COUNTED ON
CONTINUATION SHEET
AND SHOWN THIS
SHEET FOR REFERENCE



VALVE & I.D. NO.

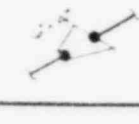


INDICATES PRESSURE
RETAINING BOLTING

CHECK VALVE
& I.D. NO.



FLG. BUTTERFLY
VALVE &
I.D. NO.



ELL



REDUCER



TEE



STUB-IN FITTING
(WOL, SOL, ETC)



PLUGGED STUB-IN



WELD CAP



SCREWED CAP



PLAIN END



VENDOR CODE TAG
& SHOP WELD NO.



PENETRATION
SLEEVE



PENETRATION
SLEEVE W/ FLUED
HEAD OR SEAL
PLATE



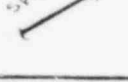
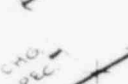
"IN-LINE"
PENETRATION



LIMIT OF SAFETY
RELATED PIPING
& COMPONENTS



POINT OF DESIGN
SPECIFICATION
CHANGE



CC - CONTAINMENT COOLING
CD - CONDENSATE
CG - COMBUSTIBLE GAS
CR - CHILLED WATER
CS - COND./W. STORAGE & TRANSFER
CU - REACTOR WATER CLEANUP
CW - CUMP COOLING WATER
DG - DIESEL GENERATOR
DR - FLOOR & EQUIPMENT DRAINS
DW - DOMESTIC WATER
FC - FUEL POOL COOLING & CLEANUP
FD - FILTER/DEMIN (FPCCU)
FW - FEEDWATER
HP - HIGH PRESSURE CORE SPRAY
IA - INSTRUMENT AIR

LC - STANDBY LIQUID CONTROL
LD - LEAK DETECTION
LP - LOW PRESSURE CORE SPRAY
LR - LEAK RATE TEST SYSTEM
MS - MAIN STEAM
RD - CONTROL ROD DRIVE
RF - FILTER/DEMIN (RWCU)
RH - RESIDUAL HEAT REMOVAL
RI - REACTOR CORE ISOLATION COOLING
RR - REACTOR RECIRCULATION
RV - MAIN STEAM RELIEF VALVE
SA - SERVICE AIR
SC - SUPPRESSION POOL CLEANUP
SD - MAIN STEAM DRAINS
SM - SUPP. POOL MAKE UP
SW - PLANT SERVICE WATER
WS - STANDBY SERVICE WATER

A - LONGITUDINAL SEAM
B - PIPE TO ATTACHMENT
C - PIPE TO FITTING
D - PIPE TO NOZZLE
E - PIPE TO PIPE
F - PIPE TO PUMP
G - PIPE TO VALVE
H - PIPE TO WELDCLET
J - FITTING TO FITTING
K - FITTING TO PUMP
L - FITTING TO VALVE
M - VALVE TO VALVE
N - PIPE TO SWEEPLET
P - PIPE TO SOCKLET
R - CODE TAG WELD

ABBREVIATIONS

HANGERS

AUX - AUXILIARY
BLDG - BUILDING
CL - CENTERLINE
CL - CLASS
COMP - COMPLETE or COMPONENT
CONT - CONTAINMENT
DW - DRYWELL
DWG - DRAWING
EL - ELEVATION
FLG - FLANGE
HD - HEAD
HX - HEAT EXCHANGER
ID - IDENTIFICATION
ISI - INSERVICE INSPECTION
MPL - MASTER PARTS LIST
N - NORTH or NOZZLE
PEN - PENETRATION

REV - REVISION
RPV - REACTOR VESSEL
RX - REACTOR
SCH - SCHEDULE
SHT - SHEET
SOL - SOCKLET
STD - STANDARD
STM - STEAM
TOL - THROLOLET
THR - TURBINE
WOL - WELDCLET

A - SNUBBER
B - RIGID STRUT
C - BOX OR GUIDE
D - SPRING
E - COMBINATION
F - ANCHOR
P - PWR

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

SCALE NONE	JOB NO. JB-1	TITLE LEGEND FOR ISI ISOMETRIC DRAWINGS
CONTRACT NO. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT
MADE FOR MISSISSIPPI POWER & LIGHT		

GENERAL ELECTRIC
NUCLEAR SERVICE OPERATION
INSTALLATION & SERVICE ENGINEERING DIV.
ATLANTA, GEORGIA

DRAWING NO.
351N79B0006
REV
A
SHY NO. 1 OF 3

ISI EXAMINATION REQUIREMENTS

- 1 VOLUMETRIC EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, IWB-2600 AND IWC-2600.
- 10% VOLUMETRIC EXAMINATION OF 10% OF THE CLASS 2 PIPING WELDS IN ECCS SYSTEMS WHICH ARE PRESSURIZED LESS THAN 200 PSI DURING NORMAL PLANT OPERATION AND ARE NOT EXEMPTED BY OTHER CRITERIA
- 2 SURFACE EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, IWB-2600 AND IWC-2600.
- 3 VISUAL EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, IWB-2600 AND IWC-2600.
- 4 SYSTEM LEAKAGE AND HYDROSTATIC PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWB-5000.
- 5 SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 2 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWC-5000.
- 6 SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 3 COMPONENTS PER ASME SECTION XI, IWA-5000 AND IWC-5000.
- 7 ASME CLASS 2 AND 3 COMPONENTS EXEMPT FROM ANY ISI PER ASME SECTION XI

INFORMATION ONLY

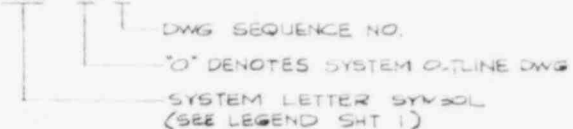
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FABRICATION, CONSTRUCTION
OR MAINTENANCE

13

DWG. NUMBERING SYSTEM

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

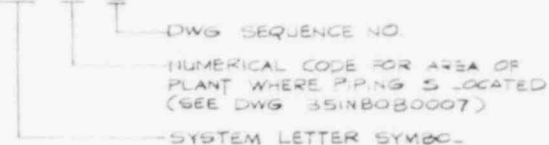
EXAMPLE: MS-0-1



II. WELD IDENTIFICATION DWGS. (ISOMETRICS)

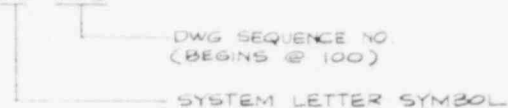
A. ASME CLASS 1 & 2 SYSTEMS

EXAMPLE: FW-11-2



B. CLASS 3 SYSTEMS

EXAMPLE: CV-103



ORIGINAL COPY WHEN THIS IMPRINT IN RED 13

SCALE NONE	JOB NO JB-1	TITLE LEGEND FOR ISI ISOMETRIC DRAWINGS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA
CONTRACT NO 360N74002	MADE FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO 35IN79B0006 REV A
			SHT NO 2 OF 3

PIPE CLASSES ARE DESIGNATED BY A THREE LETTER CODE. THE FIRST LETTER INDICATES THE PRIMARY FLANGE PRESSURE RATING, THE SECOND LETTER, THE TYPE OF MATERIAL, AND THE THIRD LETTER, THE CODE TO WHICH THE PIPING IS DESIGNED.

FIRST LETTER - PRIMARY PRESSURE RATING

(UNLESS OTHERWISE NOTED, ALL RATINGS ARE IN ACCORDANCE WITH ANSI B16.5)

A SPECIFIC PRESSURE AT SPECIFIC TEMPERATURE

B 2500#

C 1500#

D 900#

E 600#

F 400#

G 300#

H 150#

J 125# ANSI B16.1

K 175# WOG UNDERWRITERS' LABORATORIES, INC.

L 250# ANSI B16.1

X GRAVITY RATING

Y ROOF DRAINS, GRAVITY RATING

ADDITIONAL PRESSURE RATINGS

M 200# (MANUFACTURER'S RATING)

N 150# WOG

P 100# (MANUFACTURER'S RATING)

R 75# (MANUFACTURER'S RATING)

S 50# WOG

T 25# AWWA (OR MANUFACTURER'S RATING)

Z GENERAL USE AS DESIGNATED ON PIPING CLASS SHEETS

V 150# (MANUFACTURER'S RATING)

SECOND LETTER - MATERIAL

A ALLOY STEEL

B CARBON STEEL

C AUSTENITIC STAINLESS STEEL

D COPPER, BRASS or BRONZE

E ALUMINUM

F CARBON STEEL - COPPER BEARING

G CARBON STEEL - SARAN LINED

H CAST IRON

K PVC

M DURIUM

N CARBON STEEL - GALVANIZED

P CAST IRON - CEMENT LINED

R CARBON STEEL - EPOXY LINED

S DUCTILE IRON - CEMENT LINED

T DELETED

V FRP

W CARBON STEEL - TEFLON LINED

THIRD LETTER - APPLICABLE CODES

A NUCLEAR POWER PLANT COMPONENTS
ASME B&PV CODE, SECTION III, CLASS I

B NUCLEAR POWER PLANT COMPONENTS
ASME B&PV CODE, SECTION III, CLASS 2

C NUCLEAR POWER PLANT COMPONENTS
ASME B&PV CODE, SECTION III, CLASS 3

D POWER PIPING CODE, ANSI B31.1

F NATIONAL FIRE PROTECTION ASSOCIATION CODE

G SOUTHERN STANDARD PLUMBING CODE

H POWER BOILERS, ASME B&PV CODE, SECTION I

J AMERICAN WATER WORKS ASSOCIATION STANDARDS

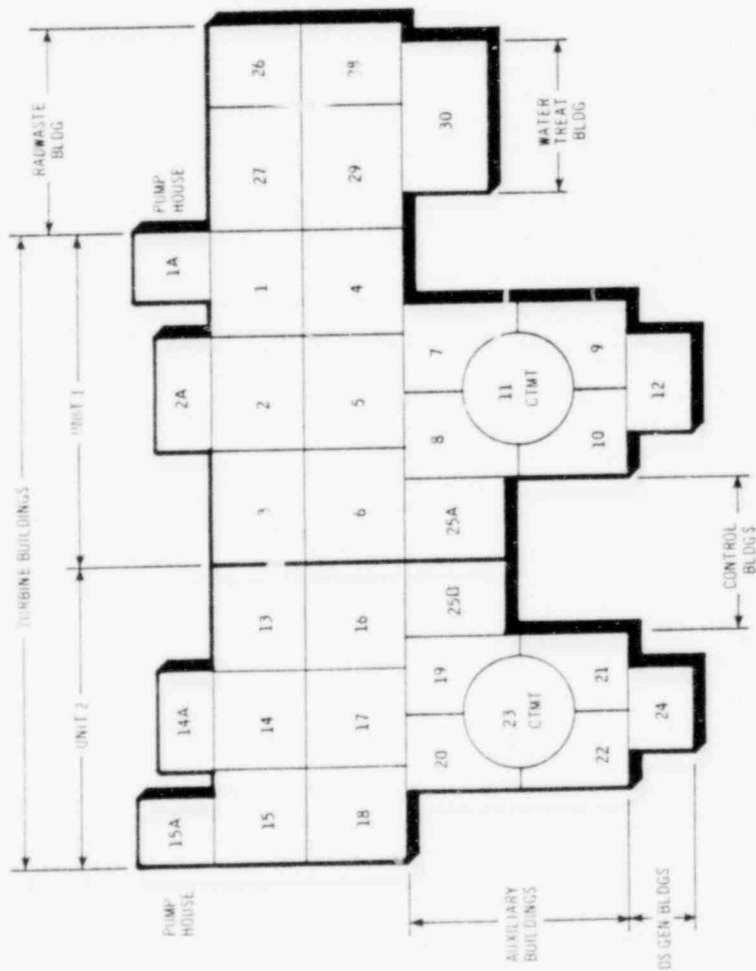
Z FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3. DESIGNED PER ANSI B31.1
N-STAMPING, SEISMIC ANALYSIS AND Q-LISTING ARE
NOT REQUIRED.

INFORMATION ONLY

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OF PIPING

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SCALE NONE	JOB NO. JB-1	TITLE LETTER CODE FOR PIPING		GENERAL ELECTRIC	
CONTRACT NO. 360N74002				NUCLEAR SERVICE OPERATION	
MADE FOR MISSISSIPPI POWER & LIGHT CO.		PROJECT GRAND GULF NUCLEAR PLANT		INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA	
		DRAWING NO. 351N79B0006		REV A	



GRAND GULF NUCLEAR STATION UNITS 1 AND 2

PORT GIBSON, MISSISSIPPI
MISSISSIPPI POWER & LIGHT COMPANY

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SCALE	JOB NO.	TITLE	GENERAL ELECTRIC
NONE	JB-1	KEY PLAN	NUCLEAR SERVICE OPERATION
CONTRACT NO.	360N7400Z	AREA LOCATIONS	INSTALLATION & SERVICE ENGINEERING DIV.
MADE FOR	MISSISSIPPI POWER & LIGHT	PROJECT	ATLANTA, GEORGIA
		GRAND GULF NUCLEAR PLANT	DESIGN NO. 35IN8030007
			REV. A

INDEX TO ISOS FOR E-32 SYSTEM - MSIV LEAKAGE CONTROL

COMPOSITE : MSIV-0-1

ISOS : MSIV-8-1

MSIV-8-2

MSIV-8-3

MSIV-8-4

REV
A
A
A
A
A

INFORMATION ONLY

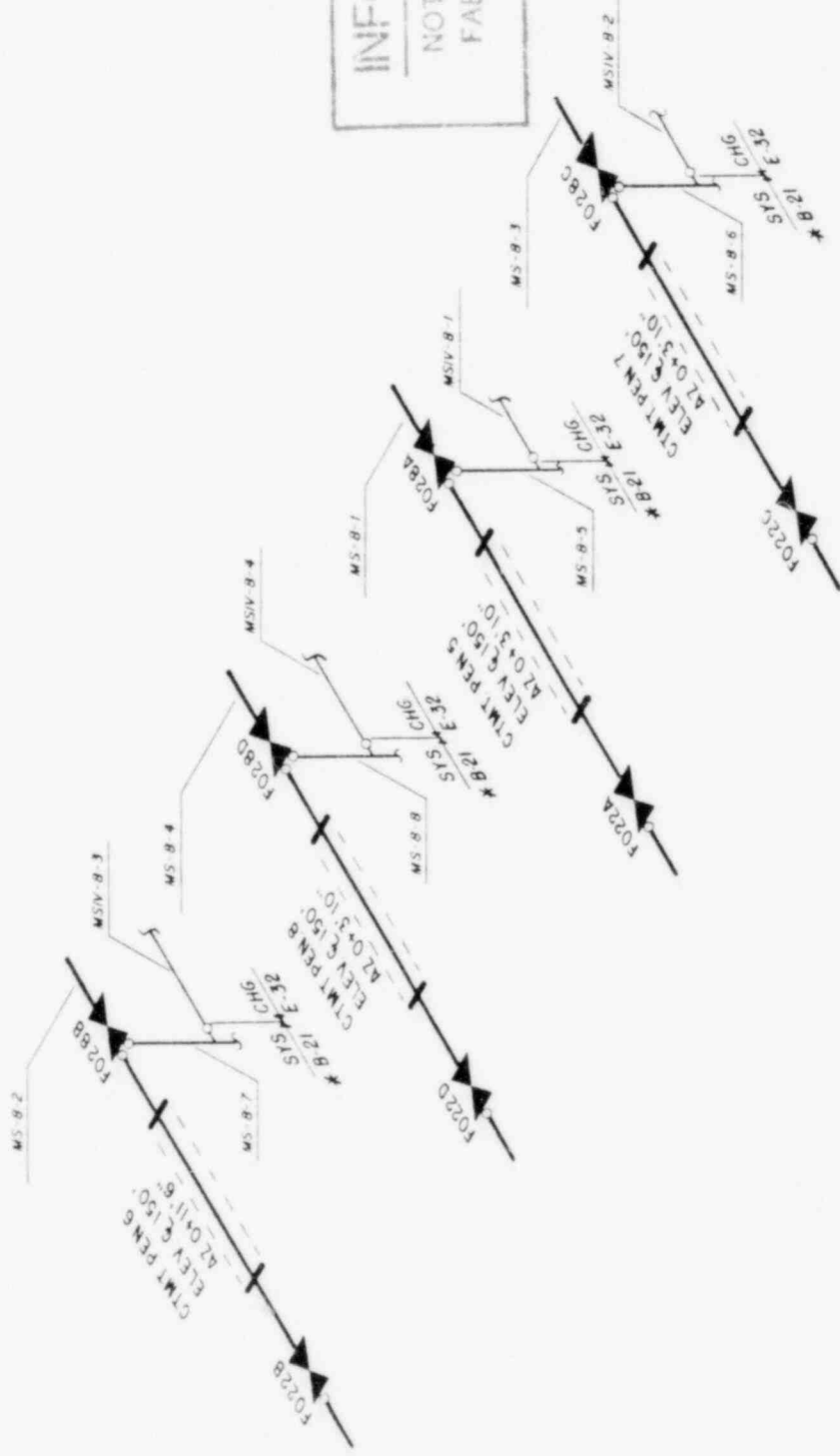
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3

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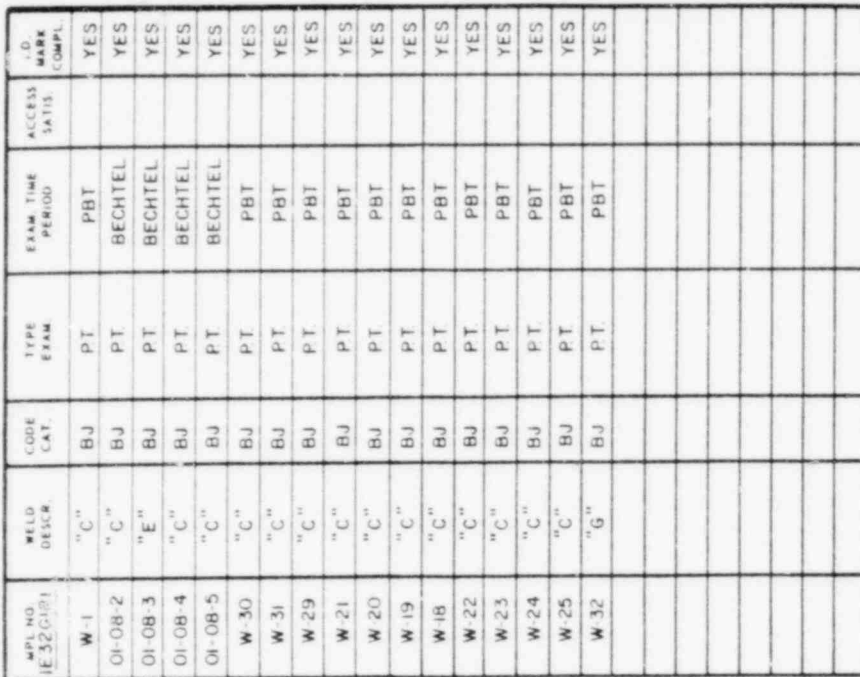
REV	A
DATE	10/10/01

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FABRICATION, CONSTRUCTION
OR MAINTENANCE



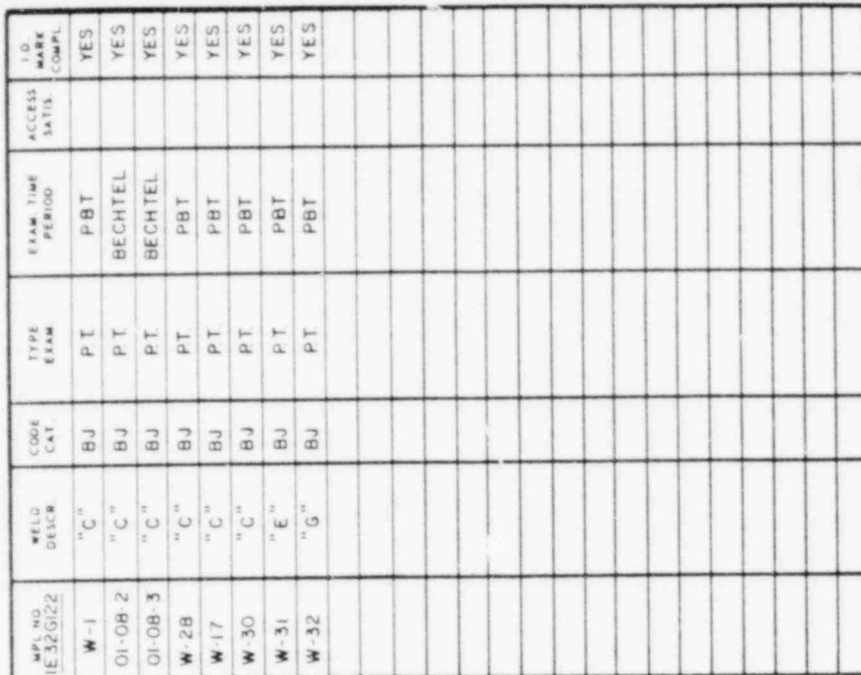
ORIGINAL COPY WHEN THIS IMPRINT IS RED

PROJECT		MP&L	GG-1	(JB-1)	MADE BY	IBSE-NSO
SYSTEM		MSIV	LOCATION	CTMT 8	U.S. 20-86	ATLANTA
LEAKAGE CONTROL		AUX	BLOC	762E950	R DILL	2.8
					REF P.B. 10	3.4
					M-1077A	1
					SK-M-1599	
					MSIV-O	
					PAGE 10/1	



GENERAL ELECTRIC

MSIV-O-I

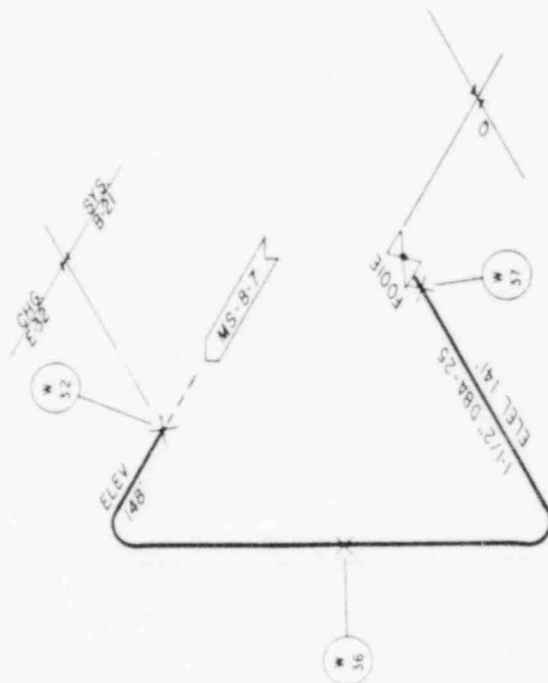


ORIGINAL COPY WHEN THIS ILPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MP&L	GG-1 (JB-1)	MADE BY	DATE	BY
SYSTEM	MSIV	AUX BLDG	REP PLO	MSIV-B	MSIV-B
		FK-S-02B	M-1097	145E-NSO	2
				ATLANTA	

MSIV-0-1

[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

PROJECT	MP8L	GG-1	(JB-1)	MADE BY C-14-B R DILL	BASE - NSO ATLANTA	3
SYSTEM	MSIV LEAKAGE CONTROL	AUX BLDG	REF D45 MS-8-7	REF P4-D M-1079	MSIV - 8 PAGE 1 of 1	

MSIV-0-1



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3		PROJECT MPAL		GG-1 (JB-1)		MADE BY OR-5-B1 R DILL		IBSE NSO ATLANTA		REV 5-2-81	
SYSTEM MSIV LEASE CONTROL		LOCATION AUX BLDG		REF ID# MS-8-8		REF P#10 M-1097		IS-OWS NO MSIV-8		PAGE 1 of 1	

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MSIV-O-1

RI - RCIC SYSTEM - E51

INFORMATION ONLY

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FABRICATION, OR TESTING ON
OR PARTS THEREOF

(3)

LETTER SYMBOLS

PIPING SYSTEMS		WELDING CONFIGURATION
CC - CONTAINMENT COOLING	LC - STANDBY LIQUID CONTROL	A - LONGITUDINAL SEAM
CD - CONDENSATE	LD - LEAK DETECTION	B - PIPE TO ATTACHMENT
CG - COMBUSTIBLE GAS	LP - LOW PRESSURE CORE SPRAY	C - PIPE TO FITTING
CH - CHILLED WATER	LR - LEAK RATE TEST SYSTEM	D - PIPE TO NOZZLE
CS - COND. RM STORAGE & TRANSFER	MS - MAIN STEAM	E - PIPE TO PIPE
CJ - REACTOR WATER CLEANUP	RC - CONTROL ROD DRIVE	F - PIPE TO PUMP
CW - COMP COOLING WATER	RE - FILTER DEMIN (RWCU)	G - PIPE TO VALVE
DG - DIESEL GENERATOR	RH - RESIDUAL HEAT REMOVAL	H - PIPE TO WELD JOINT
DR - FLOOR & EQUIPMENT DRAIN	RJ - REACTOR CORE ISOLATION COOLING	I - FITTING TO FITTING
DW - DUMESTIC WATER	RR - REACTOR RECIRCULATION	J - FITTING TO PUMP
EC - FUEL POOL COOLING & CLEANUP	RV - MAIN STEAM RELIEF VALVE	K - FITTING TO VALVE
FD - FILTER DEMIN (FPCCU)	SA - SERVICE AIR	L - FITTING TO VALVE
FW - FEEDWATER	SC - SUPPRESSION POOL CLEAN UP	M - VALVE TO VALVE
HP - HIGH PRESSURE CORE SPRAY	SD - MAIN STEAM DRAINS	N - PIPE TO SWEEP JOINT
IA - INSTRUMENT AIR	SM - SUPP POOL MAKE UP	P - PIPE TO SUCKLET
	SW - PLANT SERVICE WATER	
	WS - STANDBY SERVICE WATER	

ALX - AUXILIARY	REV - REVISION	A - SNUBBER
BLDG - BUILDING	RVV - REACTOR VESSEL	B - RIGID STRUT
C - CENTERLINE	RX - REACTOR	C - BOX OR GUIDE
CL - CLAS	SH - SHEETPILE	D - SPRING
COMP - COMPLETE COMPONENT	WG - WHEEL	E - COMBINATION
CONT - CONTAINMENT	SO - SOCKET	F - ANCHOR
DR - DRYWELL	ST - STANDARD	PWR
DWG - DRAWING	TM - TIE MEMBER	
EL - ELEVATION	TURB - TURBINE	
FLG - FLANGE	WOL - WELDLET	
HD - HEAD		
RX - HEAT EXCHANGER		

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OR MAINTENANCE

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SCALE NONE	JOB NO JB-1	TITLE LEGEND FOR 151 ISOMETRIC DRAWINGS	GENERAL  ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING ATLANTA, GEORGIA	DRAWING NO 35IN79B0006 REVISED 1 OF 2	REV A
CONTRACT NO 350N74002		PROJECT GRAND GULF NUCLEAR PLANT			
MADE FOR MIS-555-PPI POWER & LIGHT					

5. EXAMINATION REQUIREMENTS

1. VOLUMETRIC EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, (WB-2601 AND IWC-2601)
- 10% VOLUMETRIC EXAMINATION OF 10% OF THE CLASS 2 PIPING WELDS IN EGCS SYSTEMS WHICH ARE PRESSURIZED LESS THAN 200 PSI DURING NORMAL PLANT OPERATION AND ARE NOT EXEMPTED BY OTHER CRITERIA
2. SURFACE EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, (WB-2601 AND IWC-2601)
3. VISUAL EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, (WB-2601 AND IWC-2601)
4. SYSTEM LEAKAGE AND HYDROSTATIC PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, (WA-5001 AND IWB-5001)
5. SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 2 COMPONENTS PER ASME SECTION XI, (WA-5001 AND IWB-5001)
6. SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 3 COMPONENTS PER ASME SECTION XI, (WA-5001 AND IWB-5001)
7. ASME CLASS 2 AND 3 COMPONENTS EXEMPT FROM ANY ISI PER ASME SECTION XI

DWG NUMBERING SYSTEM

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

EXAMPLE: MS-0-1

DWG SEQUENCE NO.
OF DENOTES SYSTEM OUTLINE DWG
SYSTEM LETTER SYMBOL
(SEE LEGEND 5-T 1)

II. WELD IDENTIFICATION DWGS (ISOMETRICS)

A. ASME CLASS 1 & 2 SYSTEMS

EXAMPLE: FM-11-2

DWG SEQUENCE NO.
NUMERICAL CODE FOR AREA OF
PLANT WHERE PIPING IS LOCATED
(SEE DWG 33IN74B0007)
SYSTEM LETTER SYMBOL

B. CLASS 3 SYSTEMS

EXAMPLE: CU-103

DWG SEQUENCE NO.
(BEGINS @ 100)
SYSTEM LETTER SYMBOL

INFORMATION ONLY

FOR THE USE OF THE DESIGN,
MANUFACTURING OR CONSTRUCTION
ORGANIZATION

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SCALE NONE	JOB NO. JB-1	TITLE LEGEND FOR ISI ISOMETRIC DRAWINGS		GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV ATLANTA, GEORGIA	
CONTRACT NO. 330N74002		DRAWING NO. 33IN74B0006		REV A	
MADE FOR MISSISSIPPI POWER & LIGHT		PROJECT GRAND GULF NUCLEAR PLANT		DRAWING NO. 33IN74B0006 REV NO. 2 OF 3	

PIPE CLASSES ARE DESIGNATED BY A THREE LETTER CODE. THE FIRST LETTER INDICATES THE PRIMARY FLANGE PRESSURE RATING, THE SECOND LETTER, THE TYPE OF MATERIAL, AND THE THIRD LETTER, THE CODE TO WHICH THE PIPING IS DESIGNED.

FIRST LETTER - PRIMARY PRESSURE RATING

(UNLESS OTHERWISE NOTED, ALL RATINGS ARE IN ACCORDANCE WITH ANSI B16.5)

A SPECIFIC PRESSURE @ SPECIFIC TEMPERATURE

B 2500#

C 1500#

D 900#

E 600#

F 400#

G 300#

H 150#

J 125# ANSI B16.1

K 175# WOG UNDERWRITERS' LABORATORIES, INC.

L 250# ANSI B16.1

X GRAVITY RATING

Y ROOF DRAINS, GRAVITY RATING

ADDITIONAL PRESSURE RATINGS:

M 200# (MANUFACTURER'S RATING)

N 150# WOG

P 100# (MANUFACTURER'S RATING)

R 75# (MANUFACTURER'S RATING)

S 50# WOG

T 25# AL. 1/4 (OR MANUFACTURER'S RATING)

Z GENERAL USE AS DESIGNATED ON PIPING CLASS SHEETS

V 150# (MANUFACTURER'S RATING)

SECOND LETTER - MATERIAL

A ALLOY STEEL

B CARBON STEEL

C AUSTENITIC STAINLESS STEEL

D COPPER, BRASS or BRONZE

E ALUMINUM

F CARBON STEEL - COPPER BEARING

G CARBON STEEL - SARAN LINED

H CAST IRON

K PVC

M DURIRON

N CARBON STEEL - GALVANIZED

P CAST IRON - CEMENT LINED

R CARBON STEEL - EPOXY LINED

S DUCTILE IRON - CEMENT LINED

T DELETED

V FRP

W CARBON STEEL - TEFLON LINED

THIRD LETTER - APPLICABLE CODES

A NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS I

B NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 2

C NUCLEAR POWER PLANT COMPONENTS
ASME BBPV CODE, SECTION III, CLASS 3

D POWER PIPING CODE, ANSI B31.1

F NATIONAL FIRE PROTECTION ASSOCIATION CODE

G SOUTHERN STANDARD PLUMBING CODE

H POWER BOILERS, ASME BBPV CODE, SECTION I

J AMERICAN WATER WORKS ASSOCIATION STANDARDS

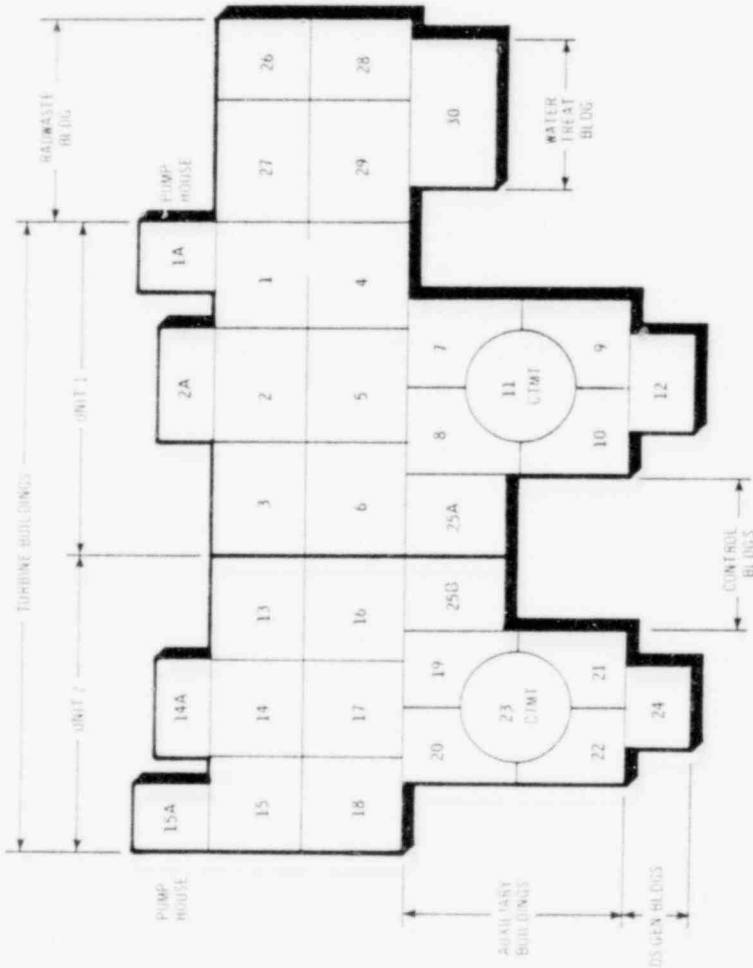
Z FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3. DESIGNED PER ANSI B31.1
N-STAMPING, SEISMIC ANALYSIS AND Q-TESTING ARE
NOT REQUIRED

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SCALE NONE	JOB NO. JB-1	TITLE LETTER CODE FOR PIPING		GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA	
CONTRACT NO. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT		DRAWING NO. 351N79B0006	REV. A
MADE FOR MISSISSIPPI POWER & LIGHT CO.		DATE JUL 78			



GRAND GULF NUCLEAR STATION UNITS 1 AND 2

POINT GULF, MISSISSIPPI
MISSISSIPPI POWER & LIGHT COMPANY

INFORMATION ONLY

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CONSTRUCTION, OR OPERATION

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SCALE NONE	JOB NO. 48-1	TITLE KEY PLAN AREA LOCATIONS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA
CONTRACT NO. 360N74002	DATE FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO. 35IN 50130007 REV. A

INDEX TO ISOS FOR E-5I SYSTEM

COMPOSITE:	RI-0-1	REV
FOR ISOS:	RI-8-9	A
	RI-8-10	A
	RI-8-11	A
	RI-8-12	A
	RI-8-13	A
	RI-11-4	A
	RI-11-5	A
	RI-11-6	A
	RI-11-7	A

COMPOSITE:	RI-0-2	REV
FOR ISOS:	RI-8-1	A
	RI-8-2	A
	RI-8-3	A
	RI-8-4	A
	RI-8-5	A
	RI-8-6	A
	RI-8-7	A
	RI-8-8	A
	RI-8-21	A
	RI-11-1	A
	RI-11-2	A
	RI-11-3	A

COMPOSITE:	RI-0-3	REV
FOR ISOS:	RI-8-14	A
	RI-8-15	A
	RI-8-16	A
	RI-8-17	A
	RI-8-18	A

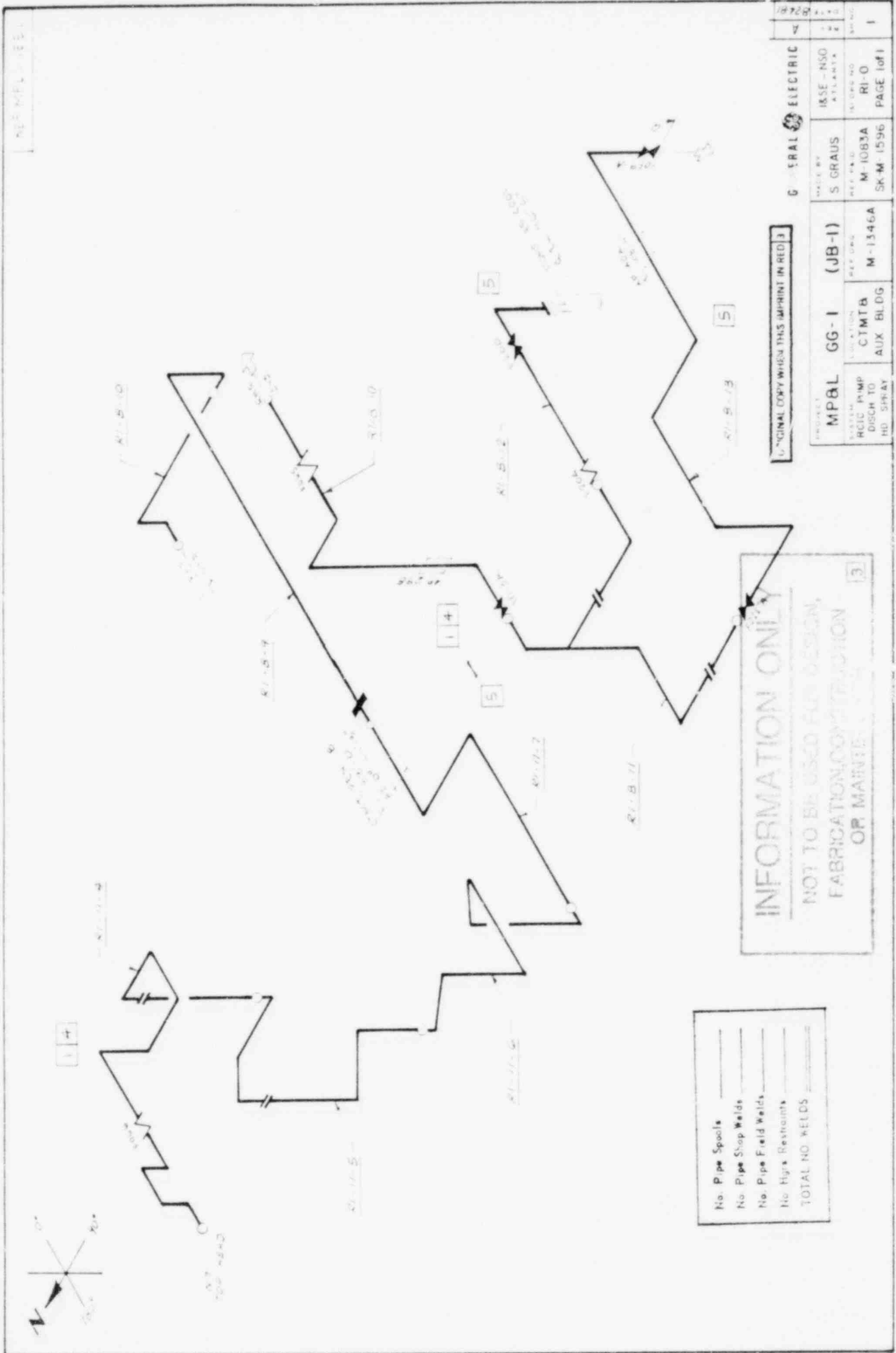
COMPOSITE:	RI-0-4	REV
FOR ISOS:	RI-7-1	A
	RI-7-2	A
	RI-7-3	A
	RI-7-4	A
	RI-8-19	A
	RI-8-20	A

INFORMATION ONLY

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OR MAINTENANCE

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REV A
DATE 8-8



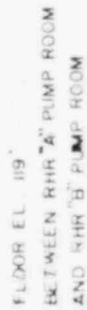
INFORMATION ONLY
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 FABRICATION, CONSTRUCTION
 OR MAINTENANCE

No Pipe Spools _____
 No Pipe Shop Welds _____
 No Pipe Field Welds _____
 No Hys Restoints _____
 TOTAL NO. WELDS _____

ORIGINAL COPY WHEN THIS IMPRINT IN RED

PROJECT	MPBL GG-1 (JB-1)	DESIGN	CTMTB	AUX BLDG
SYSTEM	RECIP PUMP	DISCH TO	M-1346A	NO SPRAY
DATE BY	S GRAUS	REV NO	M-1083A	SK-M-1596
DATE	10/20/80	REV NO	RI-O	PAGE 1081
DATE	10/20/80	REV NO	RI-O	PAGE 1081

GERALD ELECTRIC
 1872



APL. N° (E616001)	WELD DESCR.	COUR CAT	TYPE EXAM	EXAM. TIME PERIOD	ACCEPT STATUS	I.D. MARK COMP
6-81	" C "	BJ	UT	07-30-79		YES
6-82	" C "	BJ	UT	05-08-80		YES
W-71	" E "	BJ	UT	06-10-80		YES
W-72	" C "	BJ	UT	06-10-80		YES
W-12	" C "	BJ	UT	09-13-79		YES
6-81	" C "	BJ	PT	01-30-81		YES
6-82	" C "	BJ	PT	01-30-81		YES
W-71	" E "	BJ	MT	PBT		YES
W-72	" C "	BJ	MT	PBT		YES
W-12	" C "	BJ	PT	PBT		YES
C075	HANGER	BK2	VT			N/A

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

ORIGINAL COPY WHEN THIS IMPRINT IN RED	MP8L	GG-1	(JB-1)	DWTS 8-17-78	BASE NSO	DATE
	S SYSTEM	LOCATION	REF ISO	S GRAUS	ATLANTA	BY
	NIC	AUX BLDG	M-108A	REF PAID	DWG NO	SHT
	HID SPRAY		M-1346A	M-108A	R1-2	9
				SK M-1596	PAGE OF 1	

CAL STANDARD 10 = 4

R1-O-1

FLOOR ELEV. 93'
RCIC TURBINE ROOM



WFL No. (ES1000)	WFL TITLE	QDOR CAP	TYPE TEAM	EXAM DATE REVISED	ACCESS STATUS	WFL CLASS
41-B-2	"E"	CF	UT	03-04-BI	YES	YES
W-1	"G"	CF	UT	03-04-BI	YES	YES
W-2	"G"	CF	UT	03-04-BI	YES	YES
W-3	"G"	CF	UT	03-03-BI	YES	YES
41-B-2	"E"	CF	MT	03-09-BI	YES	YES
W-1	"G"	CF	MT	03-09-BI	YES	YES
W-2	"G"	CF	MT	03-09-BI	YES	YES
W-3	"G"	CF	MT	03-03-BI	YES	YES
H03-B	HANGER	CE	VT			N/A

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GENERAL &

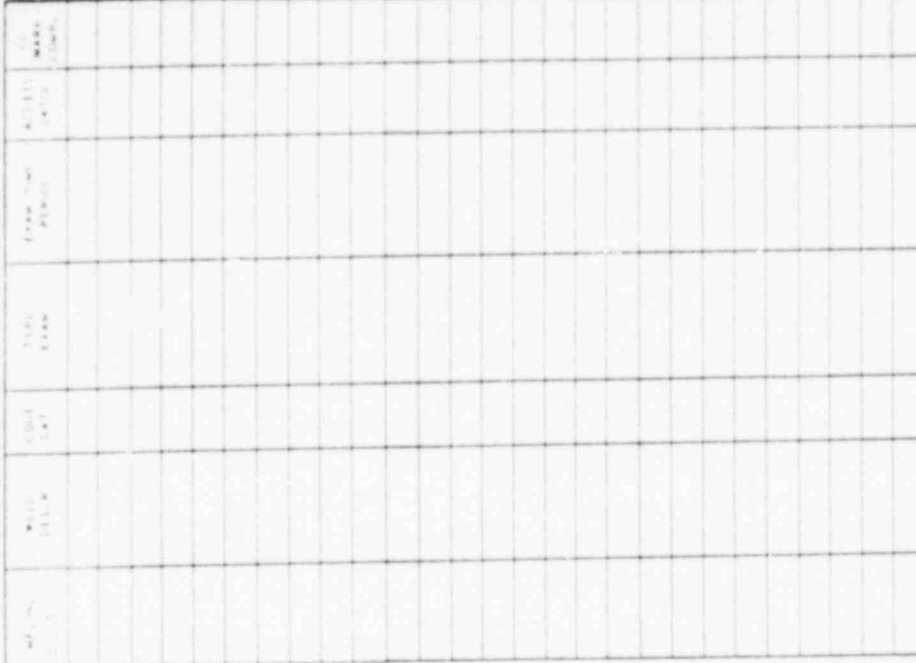
SECTION B-B

SECTION A-11

LINE NO.	WIDTH
6" DBB 44	562"

(CAL. STANDARD 10-12)

PROJECT	MP&L GG-1	(JB-1)	WORK ROOM NO.	ISSUE - N50	DATE
SYSTEM	RCIC	AUX BLDG.	REF. QUA.	S. GRAUS	BY
			REL. QUA.	M 1083A	DATE
				SK M-1596	12
				PAGE 1 of 1	



ORIGINAL COPY WHEN THIS IMPRINT APPEARS 3

GENERAL ELECTRIC

PROJECT	MP8L GG-1 (JB-1)	REV. NO.	
SYSTEM	AUX BLDG	DATE	M-13-6A

SEALING ROOM NO.	145E - NSO	DATE	13
S GRAUS	ATLANTA		
REF. NO.	RI - B		
M-10R3A			
SK M-15U6	PAGE 1 of 1		

1-0-24

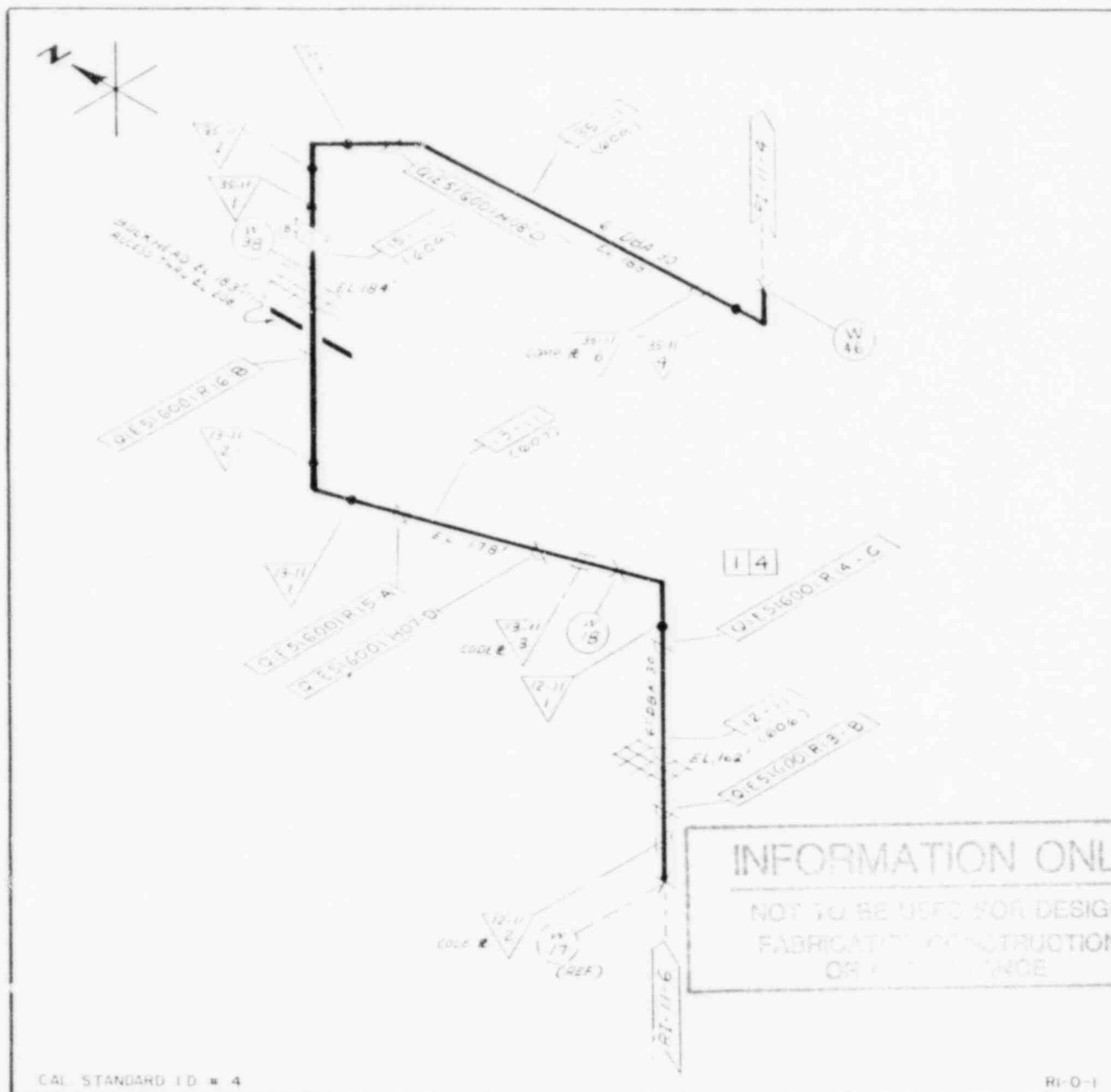


INFORMATION ONLY
THE
502

WELD NO. (E29600)	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	TD MARK COMPL
16-11-1	"C"	BJ	PT	TEXAS PIPE		YES
W-85	"C"	BJ	PT	PBT		YES
27-11-9	"C"	BJ	PT	TEXAS PIPE		YES
27-11-8	"C"	BJ	PT	TEXAS PIPE		YES
27-11-7	"C"	BJ	PT	TEXAS PIPE		YES
27-11-6	"C"	BJ	PT	TEXAS PIPE		YES
27-11-5	"C"	BJ	PT	TEXAS PIPE		YES
27-11-4	"C"	BJ	PT	TEXAS PIPE		YES
27-11-3	"C"	BJ	PT	TEXAS PIPE		YES
27-11-2	"C"	BJ	PT	TEXAS PIPE		YES
27-11-1	"C"	BJ	PT	TEXAS PIPE		YES
W-39	"C"	BJ	PT	01-27-81		YES
W-40	"C"	BJ	PT	01-27-81		YES
28-11-7	"C"	BJ	PT	TEXAS PIPE		YES
28-11-6	"C"	BJ	PT	TEXAS PIPE		YES
28-11-5	"C"	BJ	PT	TEXAS PIPE		YES
28-11-4	"C"	BJ	PT	TEXAS PIPE		YES
W-84	"C"	BJ	PT	01-27-81		YES
28-11-2	"C"	BJ	PT	TEXAS PIPE		YES
28-11-1	"C"	BJ	PT	TEXAS PIPE		YES
R17-A	HANGER	BK2	VT			N/A
R09-D	HANGER	BK2	VT			N/A
R18-A	HANGER	BK2	VT			N/A
R19-A	HANGER	BK2	VT			N/A
VALVE BODY	BOLTS (12)	B-G2	VT	06-11-81		N/A
FLANGE BOLTING	BETWEEN W-85 AND R-11	B-G2	VT			N/A
FLANGE BOLTING	ATTACHED TO SP. PS. 2054	B-G2	VT			N/A

ORIGINAL COPY WHEN THIS MP-PRINT IN RED 3

PROJECT MP8L		GG-1 (JB-1)		GENERAL ELECTRIC	
SYSTEM HCC		LOCATION CTMT		MADE BY: S. GRAUS	
HEAD SPRAY				BASE - NSO	
				ATLANTA	
				REF. NO. M-1077A	
				REF. NO. M-1085A	
				SR. M-1596	
				PAGE 2 of 2	



WELD NO	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SAT-1	IS MARK COMPL
12-II-1	"C"	BJ	UT	10-04-79		YES
W-18	"C"	BJ	UT	06-30-80		YES
13-II-1	"C"	BJ	UT	05-12-80		YES
13-II-2	"C"	BJ	UT	05-12-80		YES
W-38	"C"	BJ	UT	03-16-81		YES
35-II-1	"C"	BJ	UT	06-25-80		YES
35-II-2	"C"	BJ	UT	06-25-80		YES
35-II-3	"C"	BJ	UT	06-25-80		YES
35-II-4	"C"	BJ	UT	06-25-80		YES
W-46	"C"	BJ	UT	06-25-80		YES
12-II-1	"C"	BJ	PT	TEXAS PIPE		YES
W-18	"C"	BJ	PT	PBT		YES
13-II-1	"C"	BJ	PT	TEXAS PIPE		YES
13-II-2	"C"	BJ	PT	TEXAS PIPE		YES
W-38	"C"	BJ	PT	PBT		YES
35-II-1	"C"	BJ	PT	TEXAS PIPE		YES
35-II-2	"C"	BJ	PT	TEXAS PIPE		YES
35-II-3	"C"	BJ	PT	TEXAS PIPE		YES
35-II-4	"C"	BJ	PT	TEXAS PIPE		YES
W-46	"C"	BJ	PT	PBT		YES
R13-B	HANGER	B-K-2	VT			N/A
R14-C	HANGER	B-K-2	VT			N/A
H07-D	HANGER	B-K-2	VT			N/A
R15-A	HANGER	B-K-2	VT			N/A
R16-B	HANGER	B-K-2	VT			N/A
H08-D	HANGER	B-K-2	VT			N/A
FLANGE BOLTING	BETWEEN W-38 & 35-II-1	B-G-2	VT	06-11-81		N/A

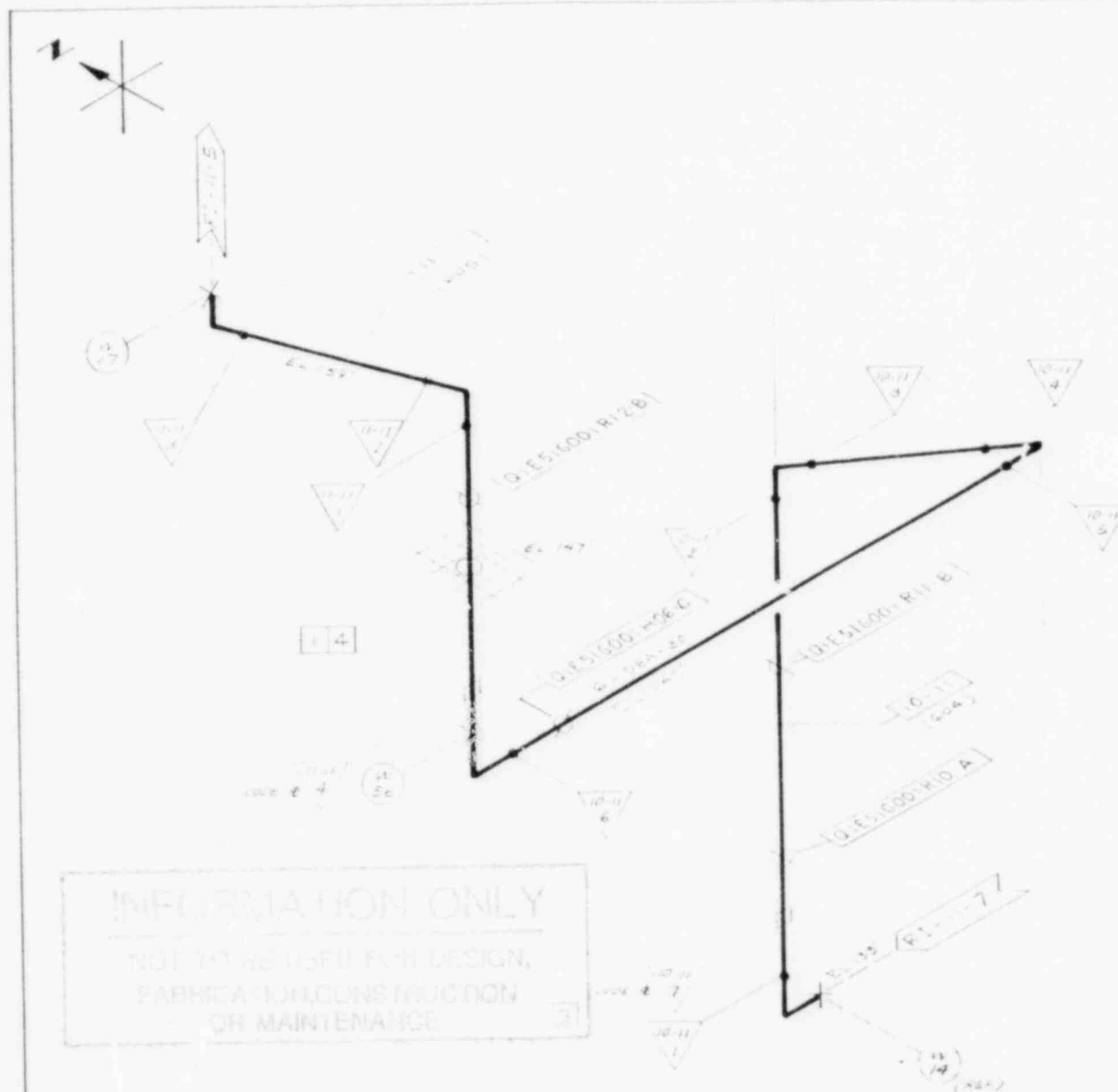
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OR MAINTENANCE

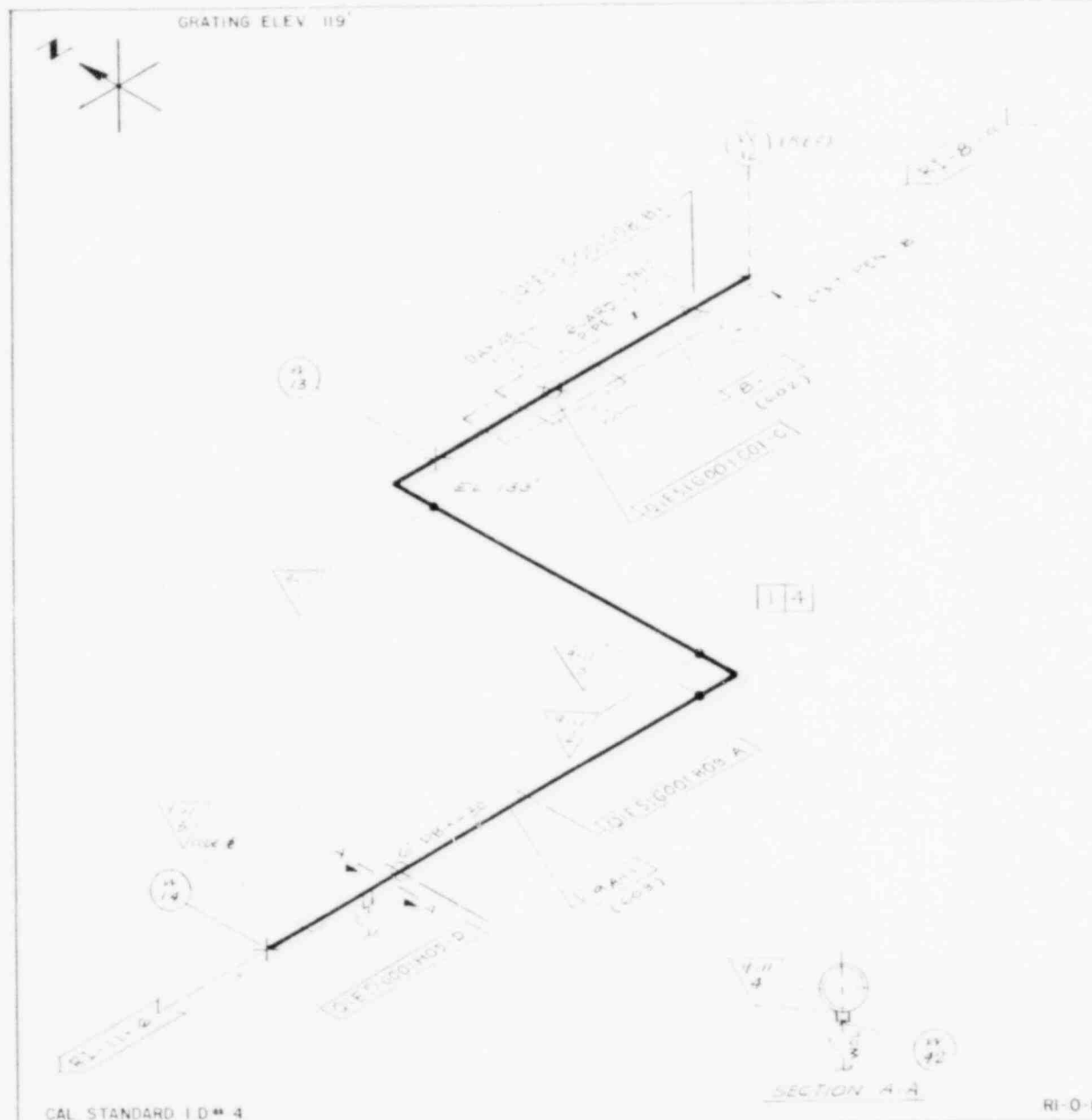
ORIGINAL COPY WHEN THIS IMPRINT IN RED

GENERAL ELECTRIC

PROJECT	MP&L GG-1 (JB-1)	MADE BY	OR 14-78 S GRAUS	1&SE-NSO ATLANTA	REV	10
SYSTEM	RCIC	LOCATION	CTMT	REF. NO.	SK-M 1596	5
HEAD SPRAY						

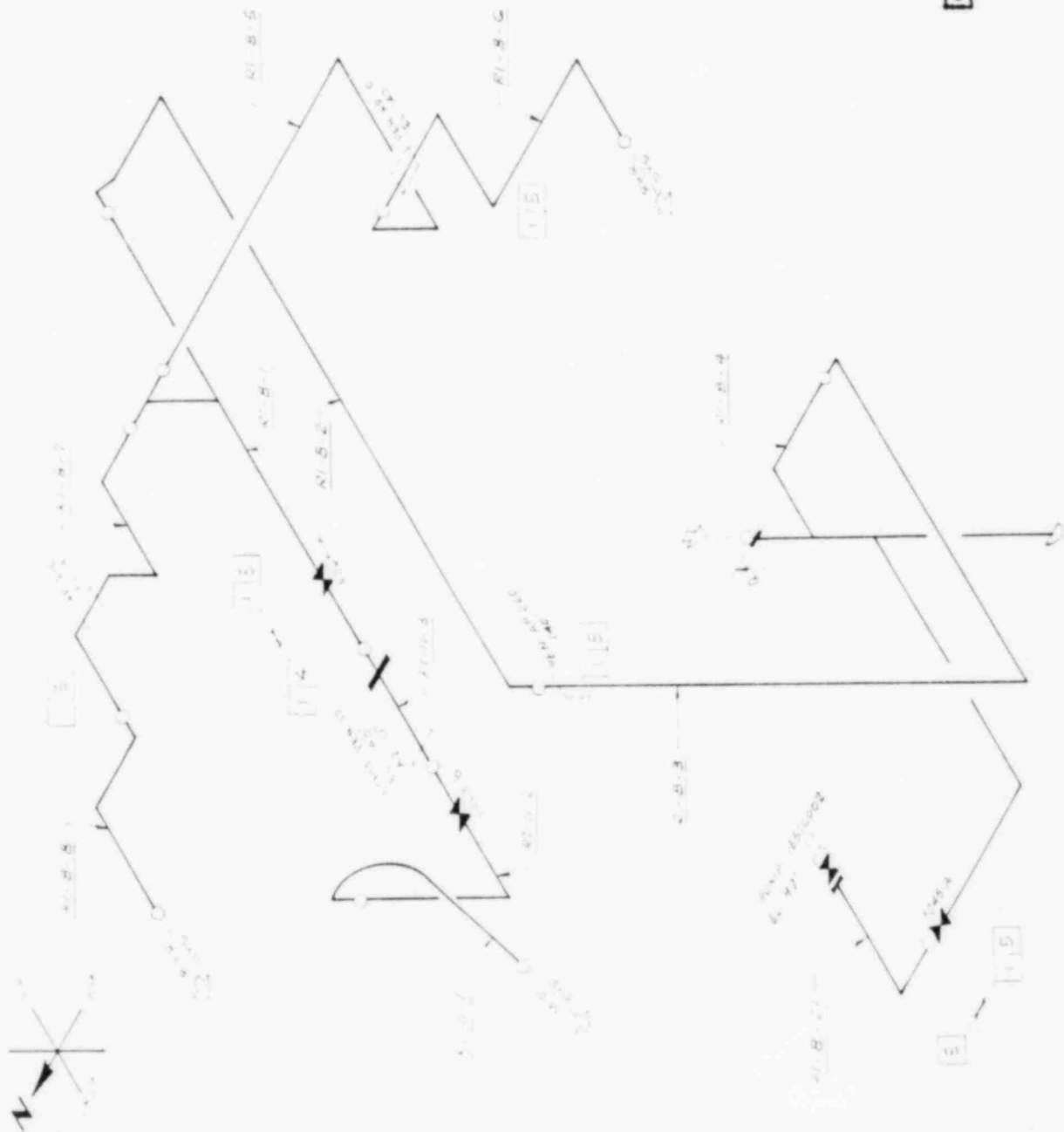


MPL NR (E81600)	WELD DESIGN	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS PATH	ID MARK COMP
10-11-1	"C"	BJ	UT	05-12-80		YES
10-11-2	"C"	BJ	UT	10-04-79		YES
10-11-3	"C"	BJ	UT	05-12-80		YES
10-11-4	"C"	BJ	UT	05-12-80		YES
10-11-5	"C"	BJ	UT	05-12-80		YES
10-11-6	"C"	BJ	UT	09-12-79		YES
11-11-1	"C"	BJ	UT	05-12-80		YES
11-11-2	"C"	BJ	UT	05-12-80		YES
11-11-3	"C"	BJ	UT	05-12-80		YES
W-17	"C"	BJ	UT	06-30-80		YES
W-56	"C"	BJ	UT	06-30-80		YES
10-11-1	"C"	BJ	PT	TEXAS PIPE		YES
10-11-2	"C"	BJ	PT	TEXAS PIPE		YES
10-11-3	"C"	BJ	PT	TEXAS PIPE		YES
10-11-4	"C"	BJ	PT	TEXAS PIPE		YES
10-11-5	"C"	BJ	PT	TEXAS PIPE		YES
10-11-6	"C"	BJ	PT	TEXAS PIPE		YES
W-56	"C"	BJ	PT	PBT		YES
11-11-1	"C"	BJ	PT	TEXAS PIPE		YES
11-11-2	"C"	BJ	PT	TEXAS PIPE		YES
11-11-3	"C"	BJ	PT	TEXAS PIPE		YES
W-17	"C"	BJ	PT	PBT		YES
RI0-A	HANGER	B-K-2	VT			N/A
RI1-B	HANGER	B-K-2	VT			N/A
HO6-C	HANGER	B-K-2	VT			N/A
RI2-B	HANGER	B-K-2	VT			N/A

INFORMATION ONLY

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MP&L	GG-1	(JB-1)	DWIG S. RAUS 08-16-78	18 SE NSO ATLANTA	REV
SYSTEM RCIC	LOCATION CTMT	REF ISO M-1346A	REF PAID M-1085A	DWIG NR RI-11	SHT 7
HD SPRAY			SK M-1596	PAGE 10f1	



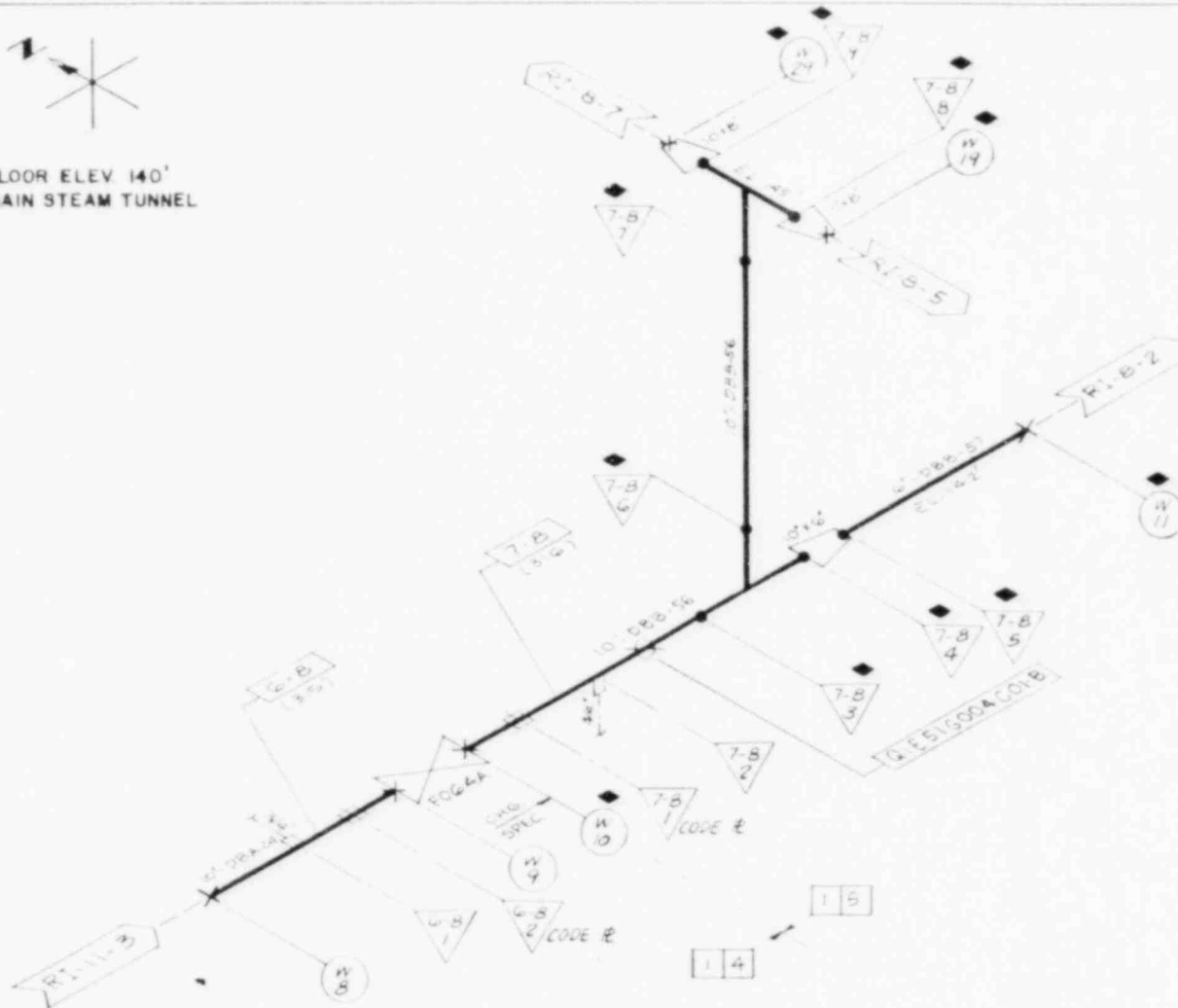
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 OR MAINTENANCE

No. Pipe Spools _____
 No. Pipe Shop Welds _____
 No. Pipe Field Welds _____
 No. Hgs. Restrictions _____
 TOTAL NO. WELDS _____

ORIGINAL COPY WHEN THIS IMPRINT IN RED			GENERAL ELECTRIC		PAGE	
MP8L GG-1 (JB-1)			S. GRAUS		BASE - NSO	
ALC. FROM			M-1593		PAGE 1 of 1	
PUMP TUB			AUX H.D.G.		2	

ORIGINAL COPY WHEN THIS IMPRINT IN RED

FLOOR ELEV 140'
MAIN STEAM TUNNEL



MPL NO 1514004	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMP
W-8	"C"	BJ	UT	06-12-80		YES
W-9	"G"	BJ	UT	06-12-80		YES
W-10	"G"	CF	UT	06-26-80		YES
7-8-3	"C"	CF	UT	06-26-80		YES
7-8-4	"C"	CF	UT	06-26-80		YES
7-8-5	"C"	CF	UT	06-27-80		YES
W-11	"C"	CF	UT	06-27-80		YES
7-8-6	"C"	CF	UT	06-26-80		YES
7-8-7	"C"	CF	UT	06-26-80		YES
7-8-8	"C"	CF	UT	06-26-80		YES
7-8-9	"C"	CF	UT	06-26-80		YES
W-29	"C"	CF	UT	06-26-80		YES
W-19	"C"	CF	UT	06-26-80		YES
W-8	"C"	BJ	PT	01-27-81		YES
W-9	"G"	BJ	MT	01-27-81		YES
W-10	"G"	CF	MT	02-06-81		YES
7-8-3	"C"	CF	MT	02-06-81		YES
7-8-4	"C"	CF	MT	02-06-81		YES
7-8-5	"C"	CF	MT	04-28-81		YES
W-11	"C"	CF	MT	04-28-81		YES
7-8-6	"C"	CF	MT	02-06-81		YES
7-8-7	"C"	CF	MT	02-06-81		YES
7-8-8	"C"	CF	MT	02-06-81		YES
7-8-9	"G"	CF	MT	02-06-81		YES
W-29	"C"	CF	MT	04-28-81		YES
W-19	"C"	CF	MT	04-28-81		YES
COI-B	HANGER	CE	VT			N/A

ORIGINAL COPY WHEN THIS IMPRINT IN RED

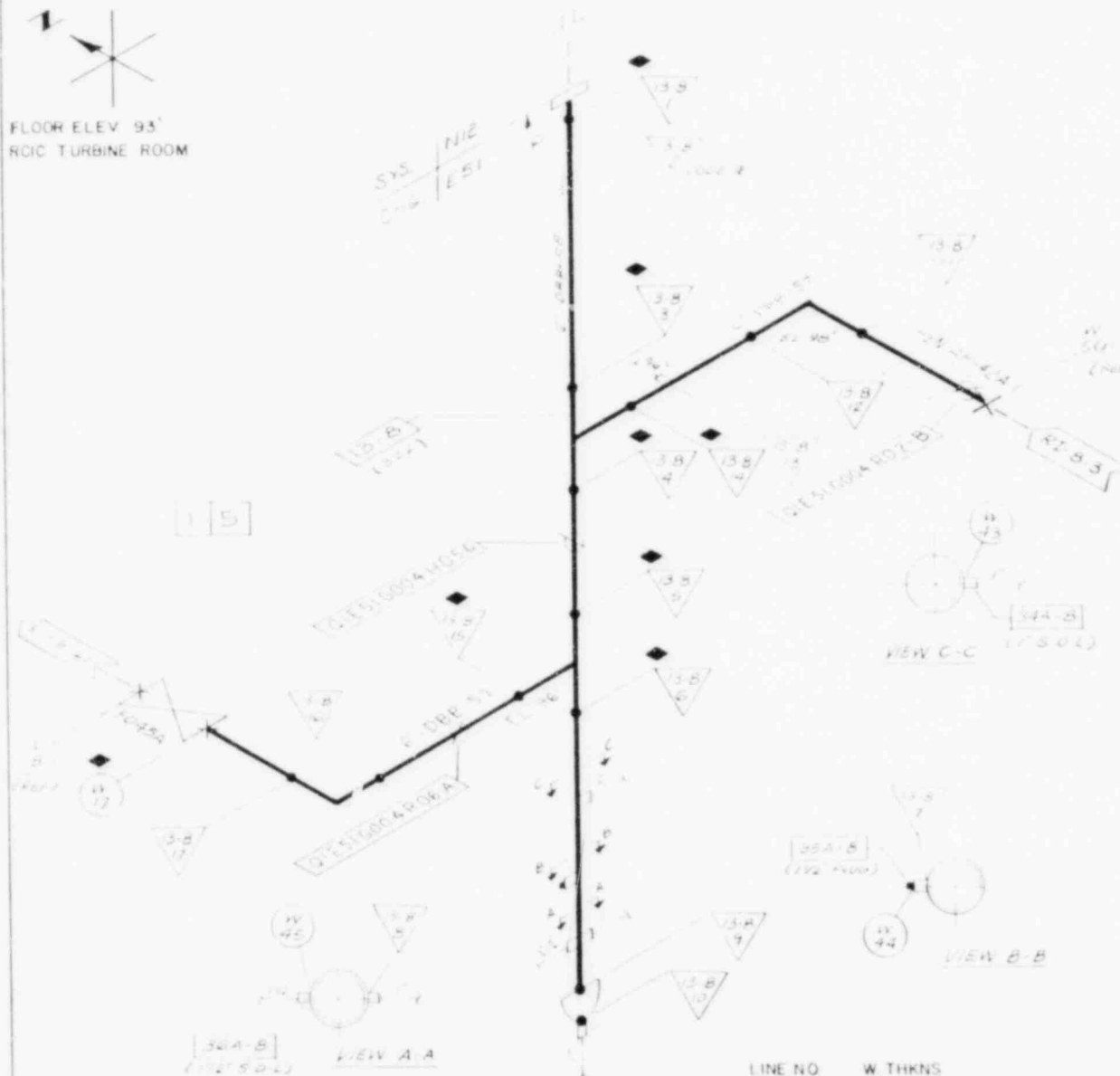
CAL. STANDARD I.D. 5, 12, 13, 33

LINE NO. W THKNS.
10 DBB-56 7.19"
6 DBB-57 .562"

RI-0-2

MP&L GG-1 (JB-1)		DWN S GRAUS 03-08-77	IBSE NSO ATLANTA	DATE
SYSTEM MS TO HCIC TURB	LOCATION AUX. BLDG	REF. ISO M-1347A	REF. P&ID M-1083B SK-M-1596	DWS. NR RI-5 PAGE 1 of 1

FLOOR ELEV. 93'
RCIC TURBINE ROOM



CAL. STANDARD I D # 12

* DIAMONDS REMOVED PER BECHTEL REVISION

LINE NO. W THKNS
6" DBB - 57 .562"
6" DBB - 58 .562"

RI-O-2

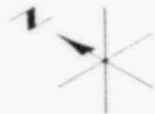
MPL NR IESI 6004	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I D MARK COMP
13-B-1	"C"	CF	UT	05-13-80		YES
13-B-3	"C"	CF	UT	05-13-80		YES
13-B-14	"C"	CF	UT	09-24-79		YES
*13-B-12	"C"	CF	UT	08-28-79		YES
*13-B-11	"C"	CF	UT	08-28-79		YES
13-B-4	"C"	CF	UT	05-13-80		YES
13-B-5	"C"	CF	UT	05-13-80		YES
13-B-15	"C"	CF	UT	08-28-79		YES
*13-B-16	"C"	CF	UT	08-28-79		YES
*13-B-17	"C"	CF	UT	08-28-79		YES
W-17	"G"	CF	UT	09-24-79		YES
13-B-6	"C"	CF	UT	05-13-80		YES
*13-B-9	"C"	CF	UT	08-28-79		YES
13-B-1	"C"	CF	MT	02-09-81		YES
13-B-3	"C"	CF	MT	02-09-81		YES
13-B-14	"C"	CF	MT	02-09-81		YES
13-B-4	"C"	CF	MT	02-09-81		YES
13-B-5	"C"	CF	MT	02-09-81		YES
13-B-15	"C"	CF	MT	02-09-81		YES
W-17	"G"	CF	MT	02-09-81		YES
13-B-6	"C"	CF	MT	02-09-81		YES
R02-B	HANGER	CE	VT			N/A
H05-C	HANGER	CE	VT			N/A
H06-A	HANGER	CE	VT			N/A

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IN THE ORIGINAL

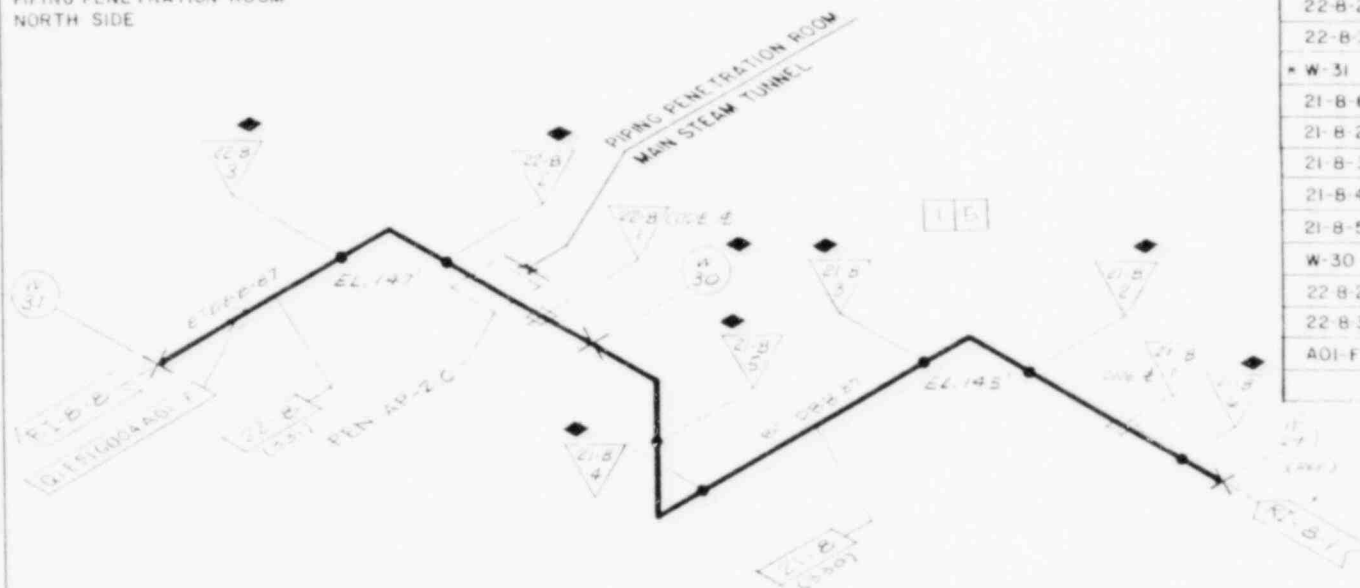
ORIGINAL COPY WHEN THIS IMPRINT IN RED

MP&L	GG-1	(JB-1)	DWN 3-4-77 S GRAUS	IBSE NSO ATLANTA	REV A	DATE 7/96
SYSTEM	LOCATION	REF ISO	REF P&ID	DWG NR	SHT	
RCIC TURB	AUX BLDG	M1347A	M-1083B SK-M-1596	RI-8 PAGE 1 of 1	4	



FLOOR ELEV 140'
MAIN STEAM TUNNEL

FLOOR ELEV 139'
PIPING PENETRATION ROOM
NORTH SIDE



MPL NR (EST) 0004	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	1 D MARK COMP
21-B-6	"E"	CF	UT	06-26-80		YES
21-B-2	"C"	CF	UT	06-26-80		YES
21-B-3	"C"	CF	UT	06-26-80		YES
21-B-4	"C"	CF	UT	06-26-80		YES
21-B-5	"C"	CF	UT	06-26-80		YES
W-30	"E"	CF	UT	06-26-80		YES
22-B-2	"C"	CF	UT	09-21-79		YES
22-B-3	"C"	CF	UT	08-24-79		YES
* W-31	"E"	CF	UT	08-24-79		YES
21-B-6	"E"	CF	MT	04-28-81		YES
21-B-2	"C"	CF	MT	02-06-81		YES
21-B-3	"C"	CF	MT	02-06-81		YES
21-B-4	"C"	CF	MT	04-28-81		YES
21-B-5	"C"	CF	MT	02-06-81		YES
W-30	"E"	CF	MT	02-06-81		YES
22-B-2	"C"	CF	MT	02-09-81		YES
22-B-3	"C"	CF	MT	02-09-81		YES
A01-F	HANGER	CE	VT			N/A

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OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED

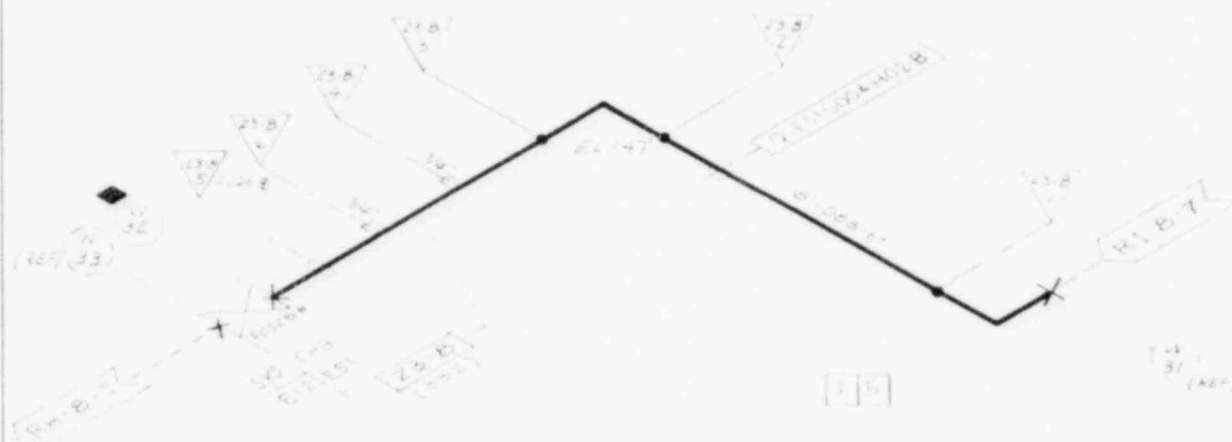
LINE NO. W THKNS
8" DBR-87 594"

CAL. STANDARD I.D. # 13

*DIAMONDS REMOVED PER ISI REVISION

RI-0-2

MP&L	GG-1	(JB-1)	DWN 3-7-77	ISSE NSO
			S GRAUS	ATLANTA
SYSTEM REC TO RRR 11X LOOP B	LOCATION AUX BLDG	REF ISO M-1347A	REF P&ID M-1085A SK-M-1596	DWG NO RI-8 PAGE 1 of 1
				SHT 7

[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

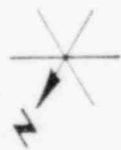
LINE NO.	W THKNS
8" DBB-87	594"

* DIAMONDS REMOVED PER BECHTEL REVISION

RI-0-2

MP&L	GG-1	(JB-1)	DWN 3-B-7A S GRAUS	18SE NSO ATLANTA	REV
SYSTEM RUC TO RHR JK LOOP B	LOCATION AUX BLDG	REF ISO M-13.47A	REF P&ID M-1085A SK-M (596)	DWG N° RI-B PAGE 1 of 1	SH 8

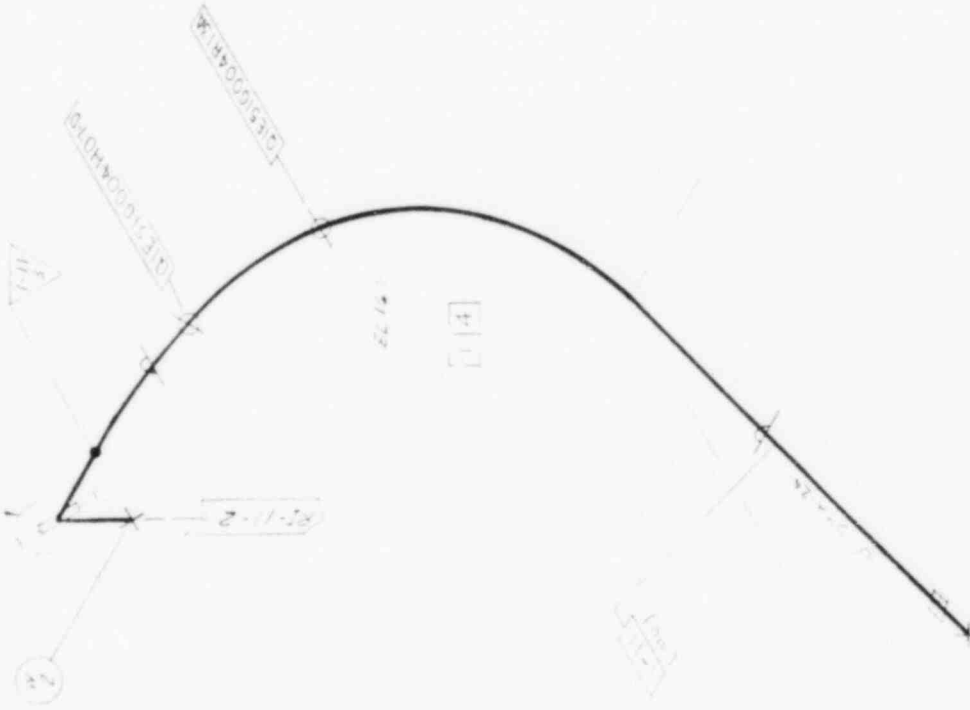
CAL STANDARD I D # 13



PROJECT	MP8 L	GG-1 (JB-1)	MADE BY 20-1	S GRAUS	135E-N30	DATE
SYSTEM	RCIC	AUX. BLDG	REF. P. 10	M-10836	Ri-B	21
			LOC. 100	M-1347A	SK. M-156	PAGE 10



GRATING ELEV (61)



14

DETAIL A

INFORMATION ONLY

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FABRICATION OR CONSTRUCTION

3

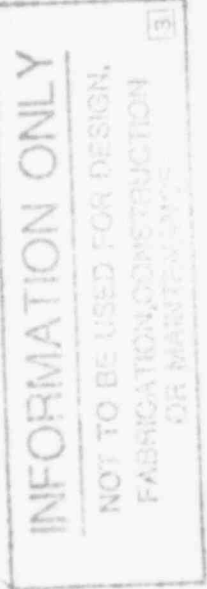
ORIGINAL COPY WHEN THIS IMPRINT IN RED

MPAL	GG-1	(JB-1)	DOWN 3-8-77	BASE NSO
SYSTEM	LOCATION	REP ISO	S GRAUS	ATLANTA
M S TO	CTMT	M-1347A	REP PLOD	DWS NR
RCIC TURB			M-1083B	RI-11
			SK-M-1596	PAGE 10/1

CAL STANDARD 10-5

RI-O-2

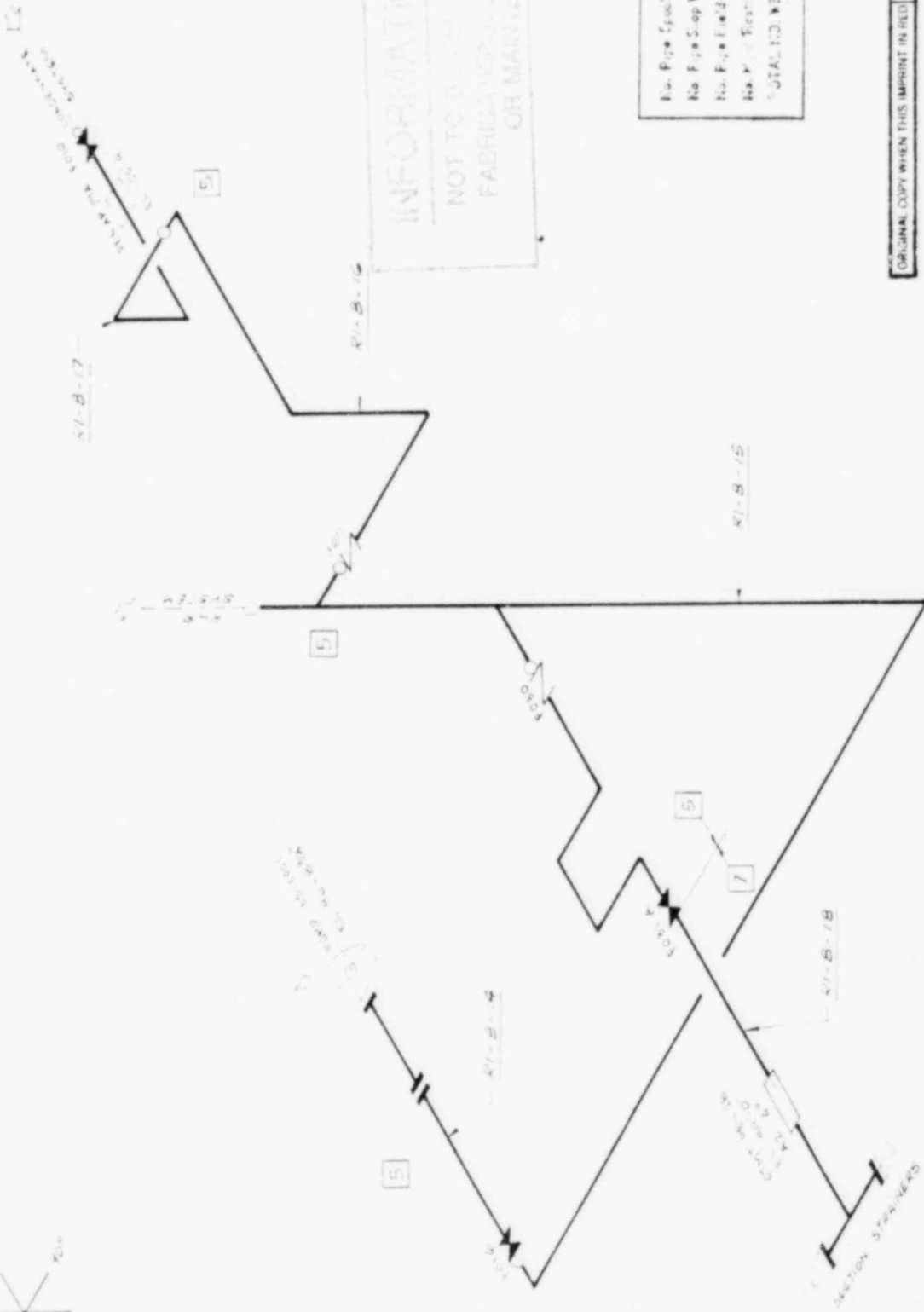
* GE/BECHTEL INTERFACE



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MPBL	GG-1	(JB-1)	DWN 3-B-77	BASE NSO
			S GRAUS	ATLANTA
			REF P&ID	DWG NO
			M-1083B	RI-11
			SK-M-1596	PAGE 10/11

REF: MPL-1850



INFORMATION ONLY
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FABRICATION, OR MAINTENANCE

No. Pipe Spools	
No. Pipe Shop Welds	
No. Pipe Field Welds	
No. Pipe Test Points	
TOTAL WELDS	

ORIGINAL COPY WHEN THIS IMPRINT IN RED

PROJECT		GENERAL ELECTRIC	
MPBL	GG-1 (JB-1)	MADE IN U.S.A.	ISSUE - NSO
RCIC	AUX BLDG	S. GRAUS	ATLANTA
PUMP	M-1336B	REF: M-1083A	RI-0
SUCTION		SK-M-1596	PAGE 1 of 1

INFORMATION ONLY
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FABRICATION QUALITY CHECK

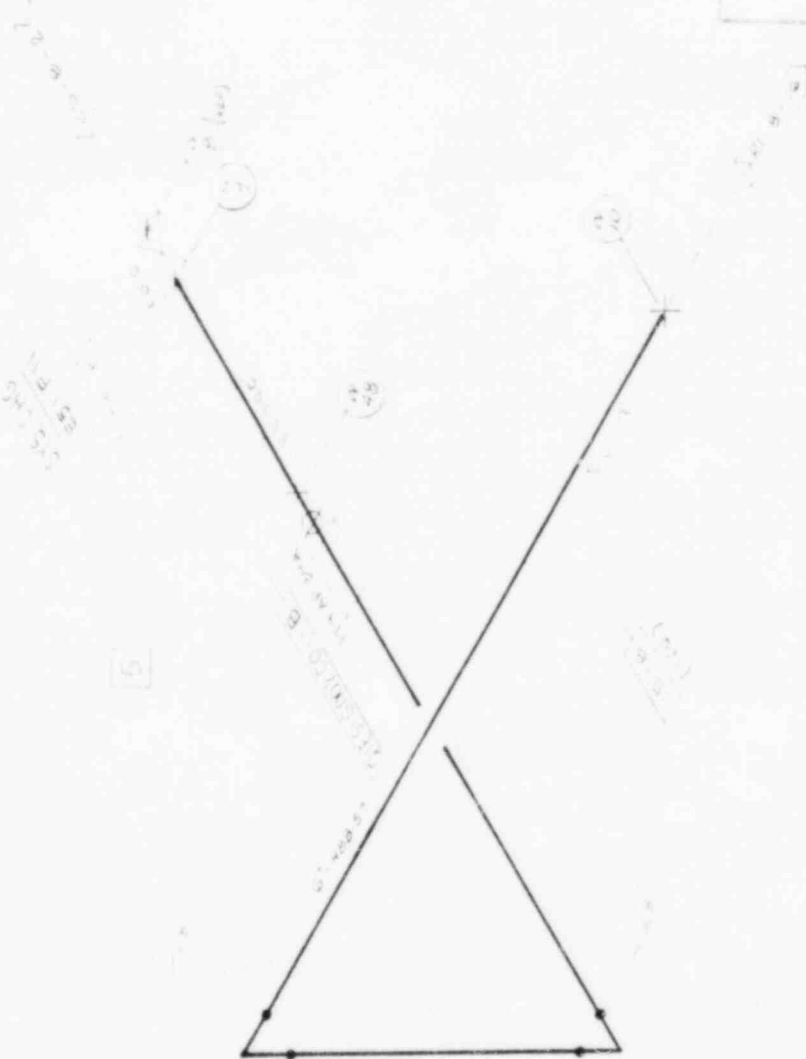
[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	GG-1	(JB-1)	S GRAUS	BASE-NISO
MP&L				STANDARD
LOC. NO.	REF. NO.			
LOC. NO.	AUX. BLDG.	M 1336B	N-1083A	RI-B
RCIC			SP. M 1596	PAGE 1 of 1

RI-O-3



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	GG-1 (JB-1)		MAKER ORS 10/18/78	USE - NSO	NO. 17
MP&L			S. GAUS	RI-B	
SYSTEM	LOGIC TESTING	REF. DESG.	M 101.1A	SK-M 1596	PAUSE OFF
HCIC	AUX. BLDG.	M 1236B			

RI-O-3

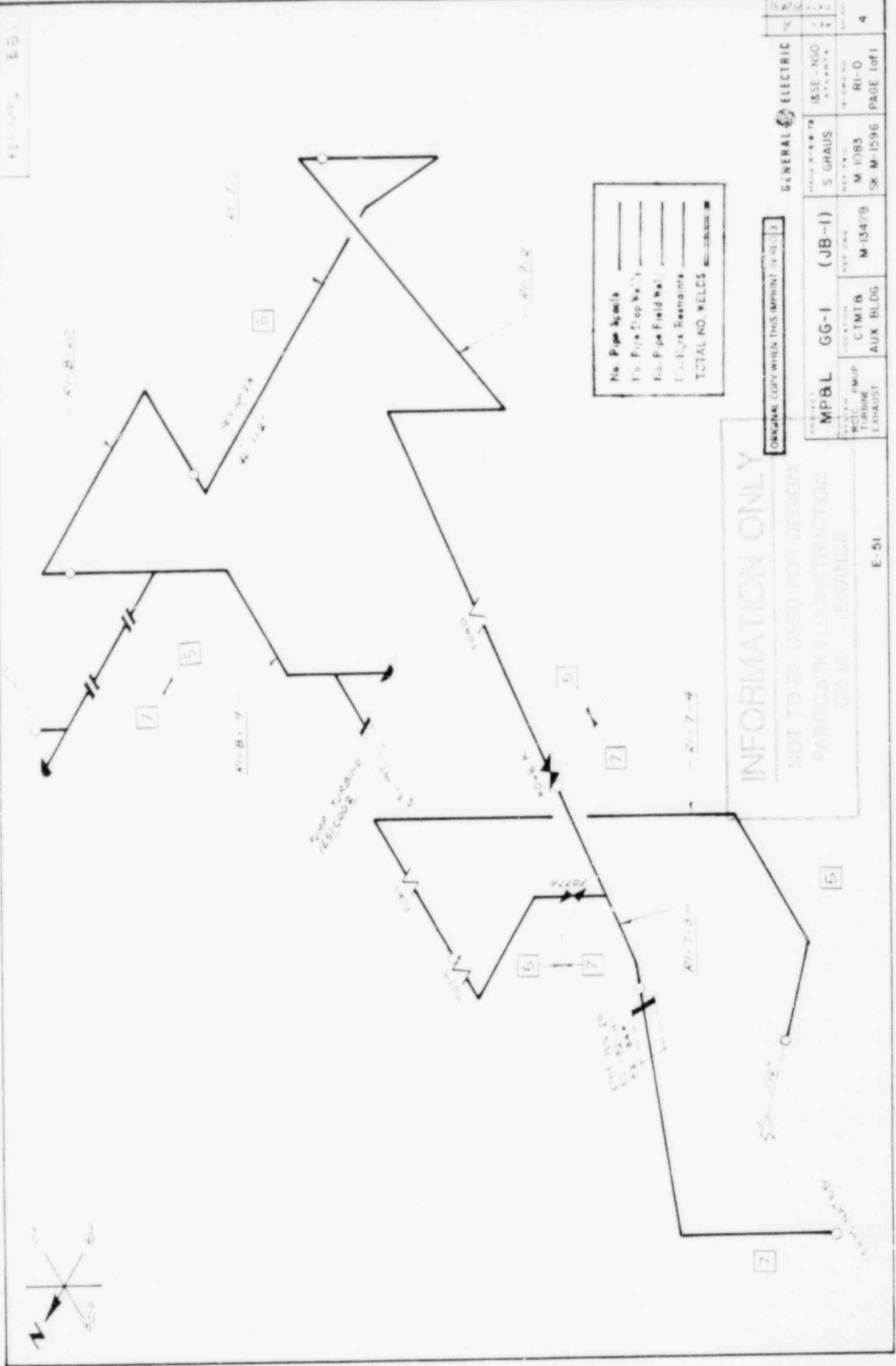


For

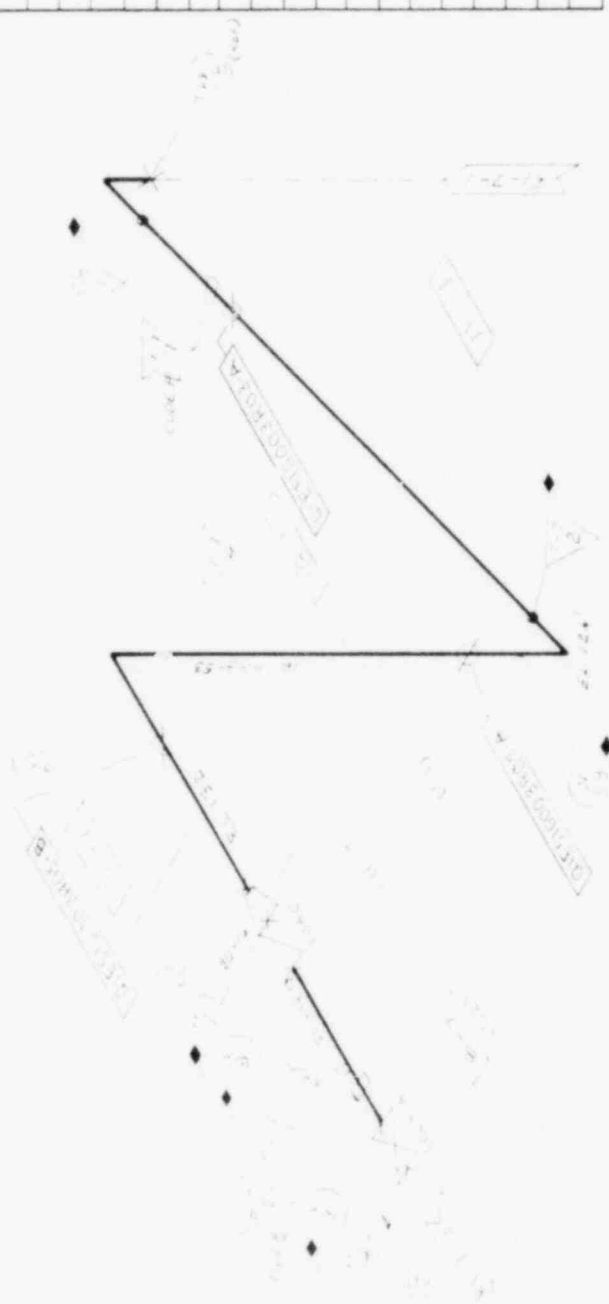
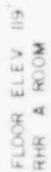
GENERAL ELECTRIC

09-19-79 S. GRAUS	BASE - N50 ATLANTA	1 2 3 4 5 6	18
M-1083A	RI-B		
SK-M-1555	PAGE 1 of 1		

RI-0-3



PROJECT		GENERAL ELECTRIC		PAGE 1 of 1	
MPBL GG-1 (JB-1)		S GRAUS		ISSE-N50	
LOCATION		M 1083		RI-O	
CTMTB		M 13478		SK M 1596	
AUX BLDG					
TURBINE					
EXHAUST					



APP. NO. E-50003	WELD DESIGN	CORR CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS STATUS	LD MARK CODE
7-7-1	"E"	CE	MT	03-10-81		YES
7-7-2	"G"	CF	MT	04-28-81		YES
W-59	"G"	CF	MT	03-10-81		YES
W-7	"E"	CF	MT	03-10-81		YES
W-8	"E"	CF	MT	03-10-81		YES
W-9	"G"	CF	MT	03-10-81		YES
RO-4	HANGER	CE	VT			N/A
RO-5	HANGER	CE	VT			N/A
HO-8	HANGER	CE	VT			N/A

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GENERAL ELECTRIC

PROJECT	MP8L	GG-1	(JS-1)	MADE BY	S GRAUS	DATE - INO	150
SYSTEM	RCIC	AUX	BLDG	REF WARD	M-10B3A	RI - 7	2
					SK M-1596	PAGE 1 of 1	

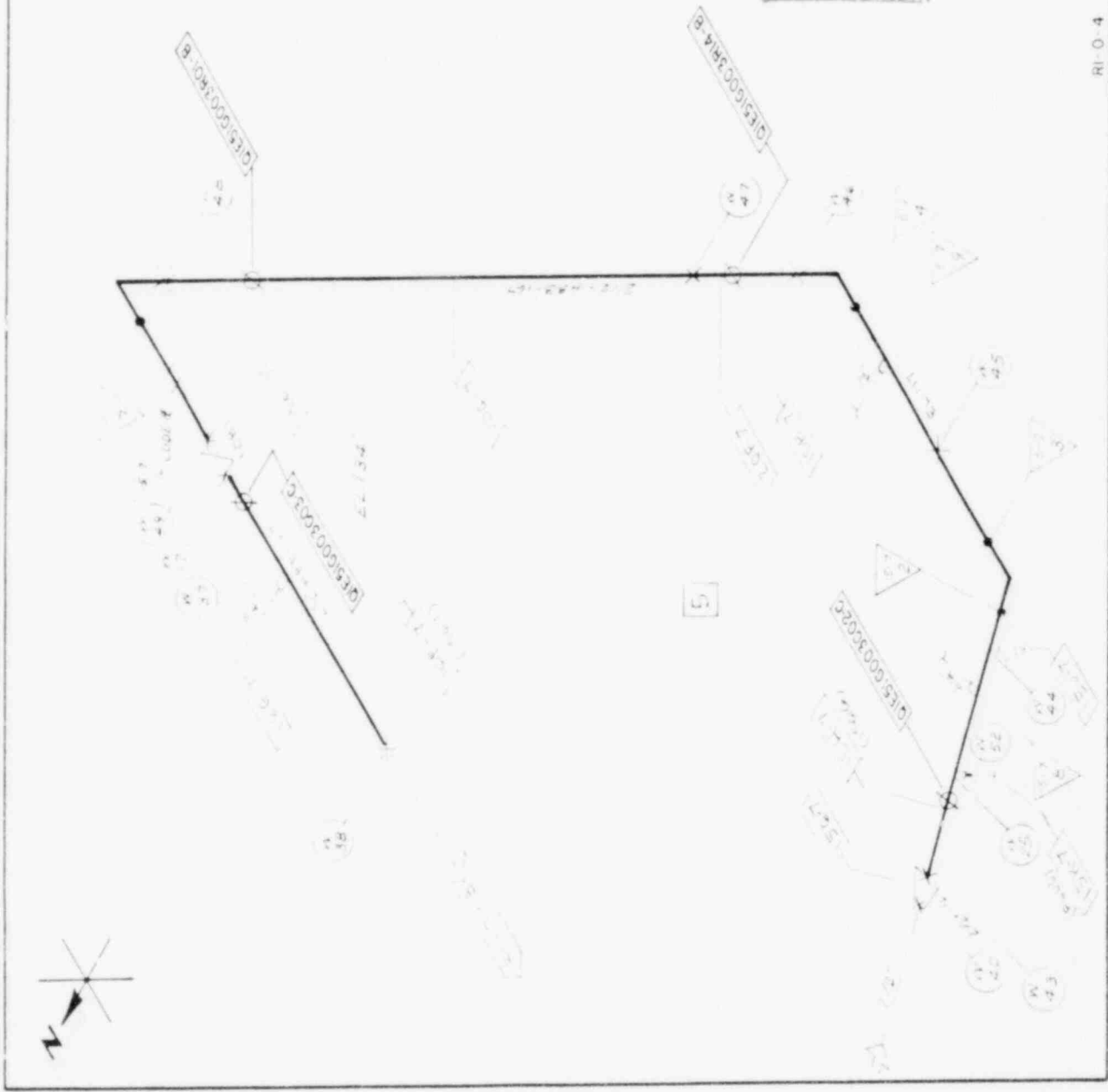
RI-O-4

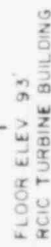


GENERAL ELECTRIC

185E-NSO ATLANTA	181088 NO RI-7
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91-0-4





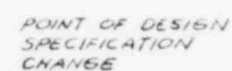
CG - COMBUSTIBLE GAS - E6I

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3

SYMBOLS



LC-STANDBY LIQUID CONTROL
LD-LEAK DETECTION
LP-LOW PRESSURE CORE SPRAY
LR-LEAK RATE TEST SYSTEM
MS-MAIN STEAM
RD-CONTROL ROD DRIVE
RF-FILTER-DEMIN (RMCU)
RH-RESIDUAL HEAT REMOVAL
RI-REACTOR CORE ISOLATION COOLING
RR-REACTOR RECIRCULATION
RV-MAIN STEAM RELIEF VALVE
SA-SERVICE AIR
SC-SUPPRESSION POOL CLEAN UP
SD-MAIN STEAM DRAINS
SM-SUPP POOL MAKE UP
SW-PLANT SERVICE WATER
WS-STANDBY SERVICE WATER

A - LONGITUDINAL SEAM
B - PIPE TO ATTACHMENT
C - PIPE TO FITTING
D - PIPE TO NOZZLE
E - PIPE TO PIPE
F - PIPE TO PUMP
G - PIPE TO VALVE
H - PIPE TO WELDOLET
J - FITTING TO FITTING
K - FITTING TO PUMP
L - FITTING TO VALVE
M - VALVE TO VALVE
N - PIPE TO SWEEPolet
P - PIPE TO SOCKlet
R - CODE TAG WELD

HANGERS

REV - REVISION
RPV - REACTOR VESSEL
RX - REACTOR
SCH - SCHEDULE
SHT - SHEET
SOL - SOCKET
STD - STANDARD
STM - STEAM
TOL - THREAD/LET
TURB - TURBINE
WOL - WELD/LET

- A - SNUBBER
- B - RIGID STRUT
- C - BOX OR GUIDE
- D - SPRING
- E - COMBINATION
- F - ANCHOR

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TITLE
LEGEND FOR
ISI ISOMETRIC
DRAWINGS

PROJECT
GRAND GULF
NUCLEAR PLANT

GENERAL ELECTRIC
NUCLEAR SERVICE OPERATION
INSTALLATION & SERVICE ENGINEERING DIV.
ATLANTA, GEORGIA

DRAWING NO.	REV
35IN79B0006	A
SHT NO. 1 OF 3	

ISI EXAMINATION REQUIREMENTS

DWG NUMBERING SYSTEM

VOLUMETRIC EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, INB-2500 AND INB-2500.

VOLUMETRIC EXAMINATION OF 10% OF THE CLASS 2 PIPING WELDS IN ECCS SYSTEMS WHICH ARE PRESSURIZED LESS THAN 200 PSI DURING NORMAL PLANT OPERATION AND ARE NOT EXEMPTED BY OTHER CRITERIA.

SURFACE EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, INB-2500 AND INB-2500.

VISUAL EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, INB-2500 AND INB-2500.

SYSTEM LEAKAGE AND HYDROSTATIC PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, INB-2500 AND INB-2500.

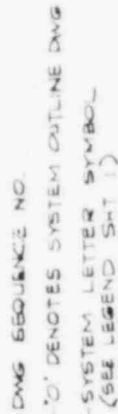
SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 2 COMPONENTS PER ASME SECTION XI, INB-2500 AND INB-2500.

SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 3 COMPONENTS PER ASME SECTION XI, INB-2500 AND INB-2500.

ASME CLASS 2 AND 3 COMPONENTS EXEMPT FROM ANY ISI PER ASME SECTION XI

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

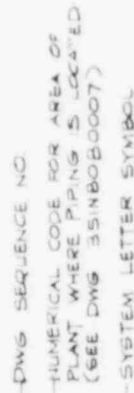
EXAMPLE: MS-0-1



II. WELD IDENTIFICATION DWGS (ISOMETRICS)

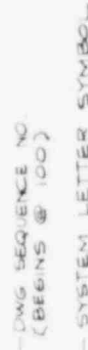
A. ASME CLASS 1 & 2 SYSTEMS

EXAMPLE: FW-11-2



B. CLASS 3 SYSTEMS

EXAMPLE: CU-103



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SCALE	JOB NO.	TITLE	GENERAL
NONE	JB-1	LEGEND FOR ISI ISOMETRIC DRAWINGS	ELECTRIC
CONTRACT NO. B6DN74002	MADE FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV AT LANTA, GEORGIA
		DRAWING NO. 35IN79B0006	REV. A
			SHT NO 2 OF 3

PIPE CLASSES ARE DESIGNATED BY A THREE LETTER CODE. THE FIRST LETTER INDICATES THE PRIMARY FLANGE PRESSURE RATING, THE SECOND LETTER, THE TYPE OF MATERIAL; AND THE THIRD LETTER, THE CODE TO WHICH THE PIPING IS DESIGNED.

FIRST LETTER - PRIMARY PRESSURE RATING

(UNLESS OTHERWISE NOTED, ALL RATINGS ARE IN ACCORDANCE WITH ANSI B16.3)

A SPECIFIC PRESSURE at SPECIFIC TEMPERATURE

B 2500#

C 1500#

D 900#

E 600#

F 400#

G 300#

H 150#

J 125# ANSI B16.1

K 175# WOG UNDERWRITERS' LABORATORIES, INC

L 250# ANSI B16.1

X GRAVITY RATING

Y ROOF DRAINS, GRAVITY RATING

ADDITIONAL PRESSURE RATINGS:

M 200# (MANUFACTURER'S RATING)

N 150# WOG

P 100# (MANUFACTURER'S RATING)

R 75# (MANUFACTURER'S RATING)

S 50# WOG

T 25# AWWA (OR MANUFACTURER'S RATING)

Z GENERAL USE AS DESIGNATED ON PIPING CLASS SHEETS

V 150# (MANUFACTURER'S RATING)

SECOND LETTER - MATERIAL

A ALLOY STEEL

B CARBON STEEL

C AUSTENITIC STAINLESS STEEL

D COPPER, BRASS or BRONZE

E ALUMINUM

F CARBON STEEL - COPPER BEARING

G CARBON STEEL - SARAN LINED

H CAST IRON

K PVC

M DURIUM

N CARBON STEEL - GALVANIZED

P CAST IRON - CEMENT LINED

R CARBON STEEL - EPOXY LINED

S DUCTILE IRON - CEMENT LINED

T DELETED

V FRP

W CARBON STEEL - TEFLON LINED

THIRD LETTER - APPLICABLE CODES

A NUCLEAR POWER PLANT COMPONENTS
ASME B&PV CODE, SECTION III, CLASS 1

B NUCLEAR POWER PLANT COMPONENTS
ASME B&PV CODE, SECTION III, CLASS 2

C NUCLEAR POWER PLANT COMPONENTS
ASME B&PV CODE, SECTION III, CLASS 3

D POWER PIPING CODE, ANSI B31.1

F NATIONAL FIRE PROTECTION ASSOCIATION CODE

G SOUTHERN STANDARD PLUMBING CODE

H POWER BOILERS, ASME B&PV CODE, SECTION I

J AMERICAN WATER WORKS ASSOCIATION STANDARDS

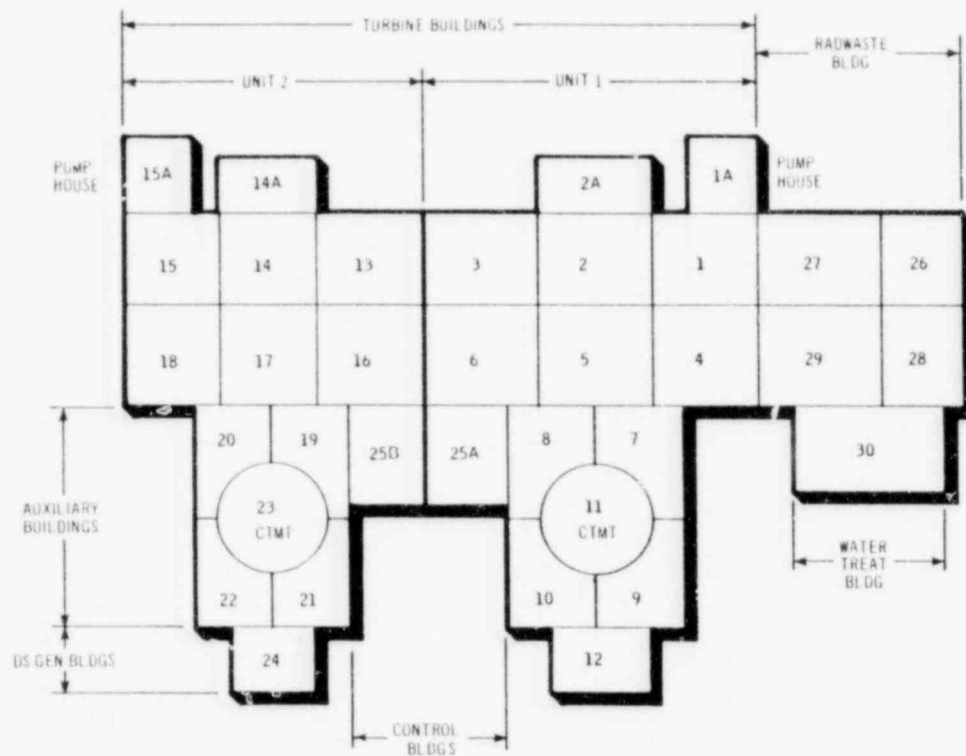
Z FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3 DESIGNED PER ANSI B31.1
N-STAMPING, SEISMIC ANALYSIS AND Q-LISTING ARE
NOT REQUIRED

INFORMATION ONLY

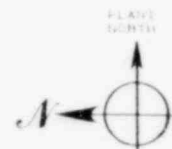
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FABRICATE OR CONSTRUCTION

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SCALE NONE	JOB NO. JB-1	TITLE LETTER CODE FOR PIPING		GENERAL ELECTRIC	
CONTRACT NO. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT		NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV ATLANTA, GEORGIA	
MADE FOR MISSISSIPPI POWER & LIGHT CO.				DRAWING NO. 351N79B0006 SHEET NO. 3 of 3	
				REV A	



GRAND GULF NUCLEAR STATION UNITS 1 AND 2
PORT GIBSON, MISSISSIPPI
MISSISSIPPI POWER & LIGHT COMPANY



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SCALE NONE	JOB NO. JB-1	TITLE KEY PLAN AREA LOCATIONS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA	REV A
CONTRACT NO. 360N74002	MADE FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT		
			DRAWING NO. 35IN80B0007	SHEET NO. 08

INDEX TO ISOS FOR E-6I SYSTEM

	REV
COMPOSITE: CG-0-1	A
CG-II-1	A
CG-II-2	A
CG-II-3	A
CG-II-4	A

	REV
COMPOSITE: CG-0-2	A
CG-II-5	A
CG-II-6	A
CG-II-7	A

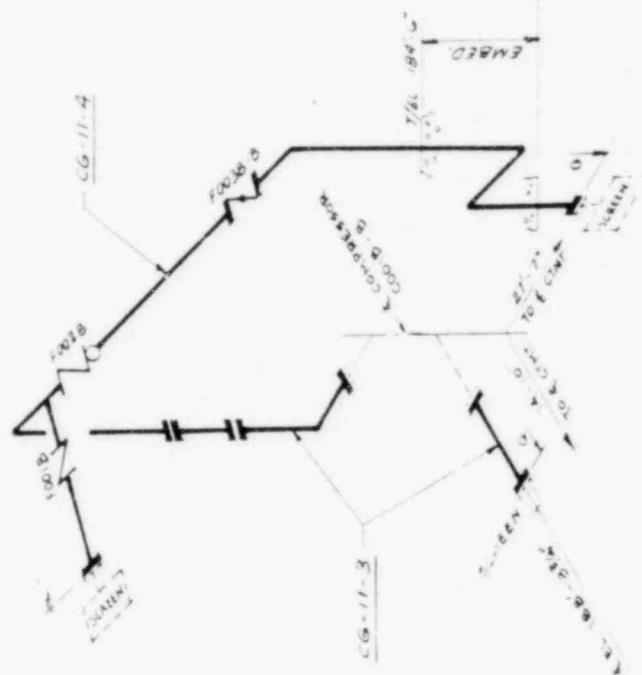
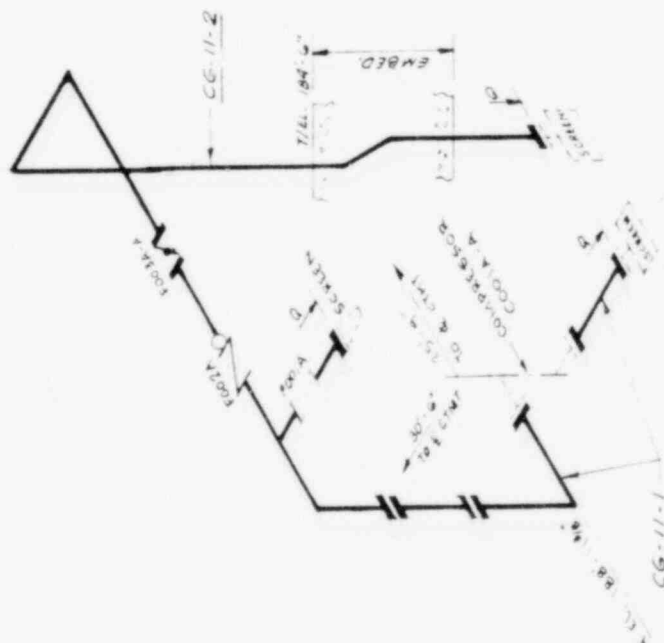
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REV	A
DATE	8/8/81

REF MPL: 1EG1

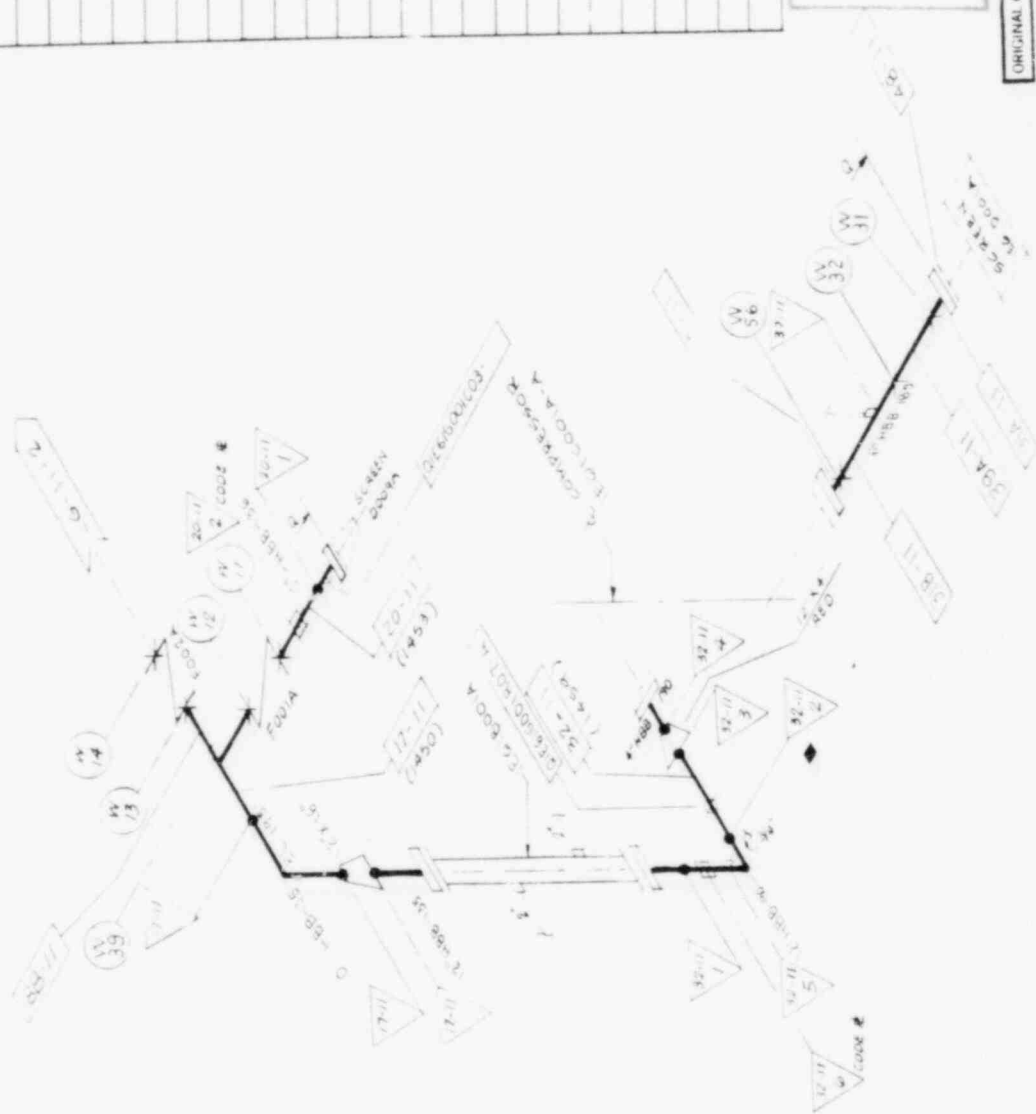


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FABRICATION OR CONSTRUCTION

No. Pipe Spools	_____
No. Pipe Shop Welds	_____
No. Pipe Field Welds	_____
No. Hgs. Restraints	_____
TOTAL NO. WELDS	=====

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GENERAL ELECTRIC		DATE BY	DATE BY	DATE BY
PROJECT		DATE BY	DATE BY	DATE BY
MPBL 6G-1 (JB-1)		DATE BY	DATE BY	DATE BY
SYSTEM		DATE BY	DATE BY	DATE BY
COMBUSTIBLE		DATE BY	DATE BY	DATE BY
UNIT CONTROL		DATE BY	DATE BY	DATE BY
LOCATION		DATE BY	DATE BY	DATE BY
CTMT		DATE BY	DATE BY	DATE BY
REP DES		DATE BY	DATE BY	DATE BY
M-1330		DATE BY	DATE BY	DATE BY
REP DES		DATE BY	DATE BY	DATE BY
M-1091		DATE BY	DATE BY	DATE BY
DATE NO		DATE BY	DATE BY	DATE BY
CG-O		DATE BY	DATE BY	DATE BY
PAGE 10/1		DATE BY	DATE BY	DATE BY



CG-0-1

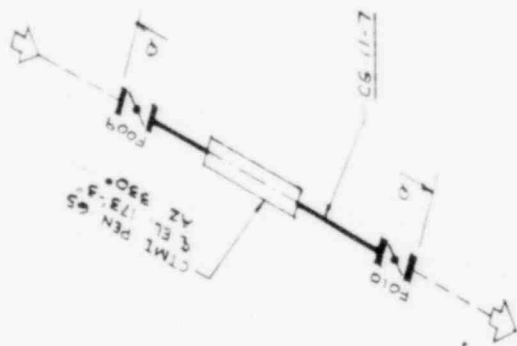
[illegible]

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GENERAL ELECTRIC

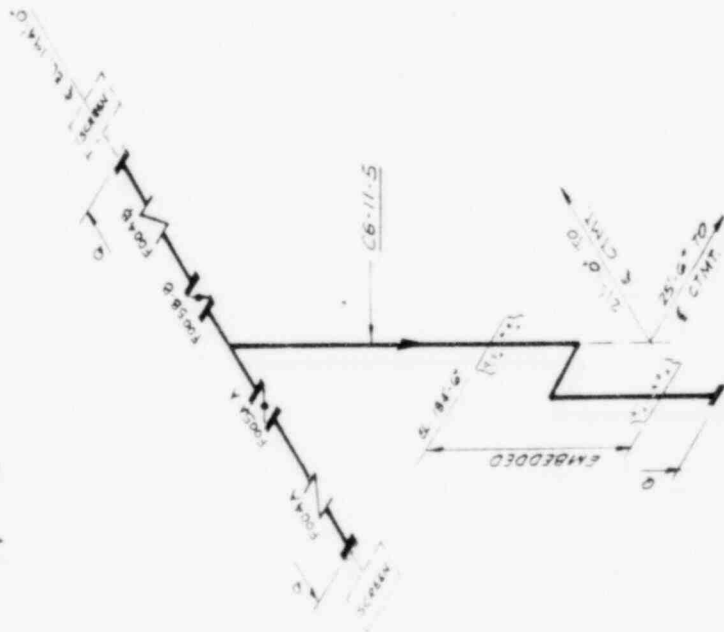
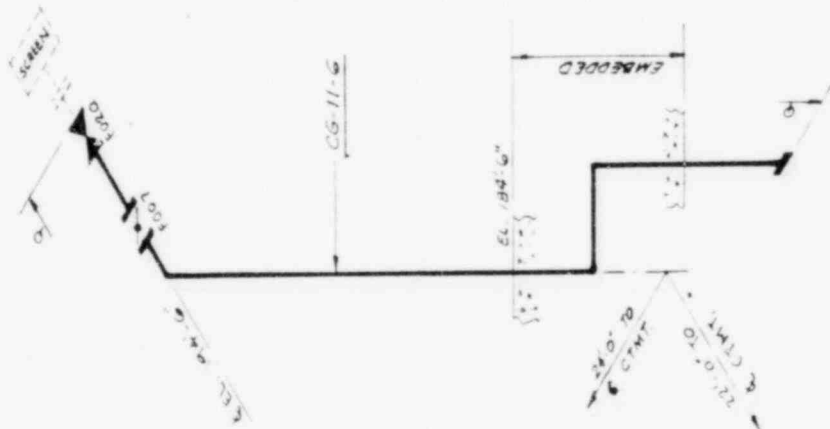
PROJECT	MP&L	GG-1	(JB-1)	MOD 279	1&5E-NSO	1
SYSTEM	COMBUSTIBLE	LOCATION	REF. D-G	S. GRAUS	ATLANTA	2
GAS CONTROL	CTMT	M-1330	REF. PID	M-1091	CG-11	1
					PAGE 10/11	

REF MPL: 1EG1



No. Pipe Spools
No. Pipe Shop Welds
No. Pipe Field Welds
No. Hgs Restraints
TOTAL NO. WELDS

GENERAL		ELECTRIC	
PROJECT	MPBL	GG-1	(JB-1)
SYSTEM	COMBUSTIBLE	LOCATION	CTMT
DATE	01-22-79	DATE	01-22-79
BY	S. GRAUS	BY	S. GRAUS
CHKD	M-1081	CHKD	M-1081
APP'D		APP'D	
SH-NO	2	SH-NO	2
PAGE	1081	PAGE	1081



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