

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

BOOK NUMBER 1 - GENERAL ELECTRIC ISOMETRICS
ON SYSTEM NUMBER E12, E21, E22, E32, E38, E51
and E61

COPY 4 REVISION A

INFORMATION ONLY

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8109030260 810901
PDR ADOCK 05000416
G PDR

LC - SBLC SYSTEM - C4I

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3

USE: 4A. COPY WHEN THIS IMPRINT IN RED

DRAWING

SYMBOLS

LETTER

SYMBOLS

PIPING SYSTEMS

WELDING CONFIGURATION

CC - CONTAINMENT COOLING

CD - CONDENSATE

CG - COMBUSTIBLE GAS

CH - 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

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 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 WELD GLET

J - FITTING TO FITTING

K - FITTING TO PUMP

L - FITTING TO VALVE

M - VALVE TO VALVE

N - PIPE TO SWEEP GLET

P - PIPE TO SOCK GLET

R - CODE TAG WELD

ABBREVIATIONS

HANGERS

AUX - AUXILIARY

BLDG - BUILDING

CL - CLASS

COMP - COMPLETE or COMPONENT

CMT - CONTAINMENT

CW - 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 - SOCK GLET

STD - STANDARD

STM - STEAM

TOL - THREADED GLET

TURB - TURBINE

WOL - WELD GLET

A - S. H. B. B. B.

B - RIGID STRUT

C - BOX OR GUIDE

D - SPRING

E - COMBINATION

F - ANCHOR

G - FWR

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SCALE FOR
NONE
CONTRACT NO.
360N74002
MADE FOR
MISSISSIPPI
POWER &
LIGHT

TITLE
LEGEND FOR
ISI ISOMETRIC
DRAWINGS

PROJECT
GRAND GULF
NUCLEAR PLANT

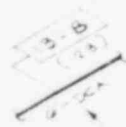
GENERAL ELECTRIC

NUCLEAR SERVICE OPERATION
INSTALLATION & SERVICE ENGINEERING DIV
ATLANTA, GEORGIA

DRAWING NO.
35IN79B0006

SHT NO. 1 OF 3

REV
A



SPODE I.D. No.
in 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
(W. L., SOL, ETC.)



PLUGGED STUB-IN



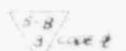
WELD CAP



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

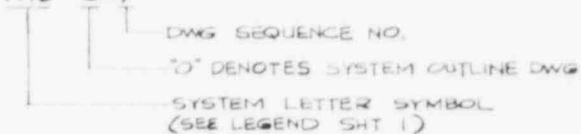
ISI EXAMINATION REQUIREMENTS

- 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 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

DWG. NUMBERING SYSTEM

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

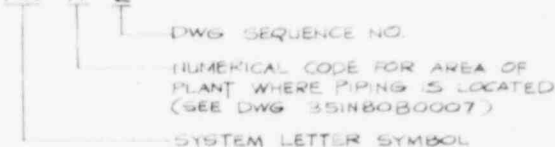
EXAMPLE: MS-0-1



II. WELD IDENTIFICATION DWGS. (ISOMETRICS)

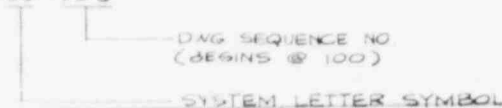
A. ASME CLASS 1 & 2 SYSTEMS

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. 560H74002		PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO. 35IN79B0006
MADE FOR MISSISSIPPI POWER & LIGHT		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 DURIIRON
- 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

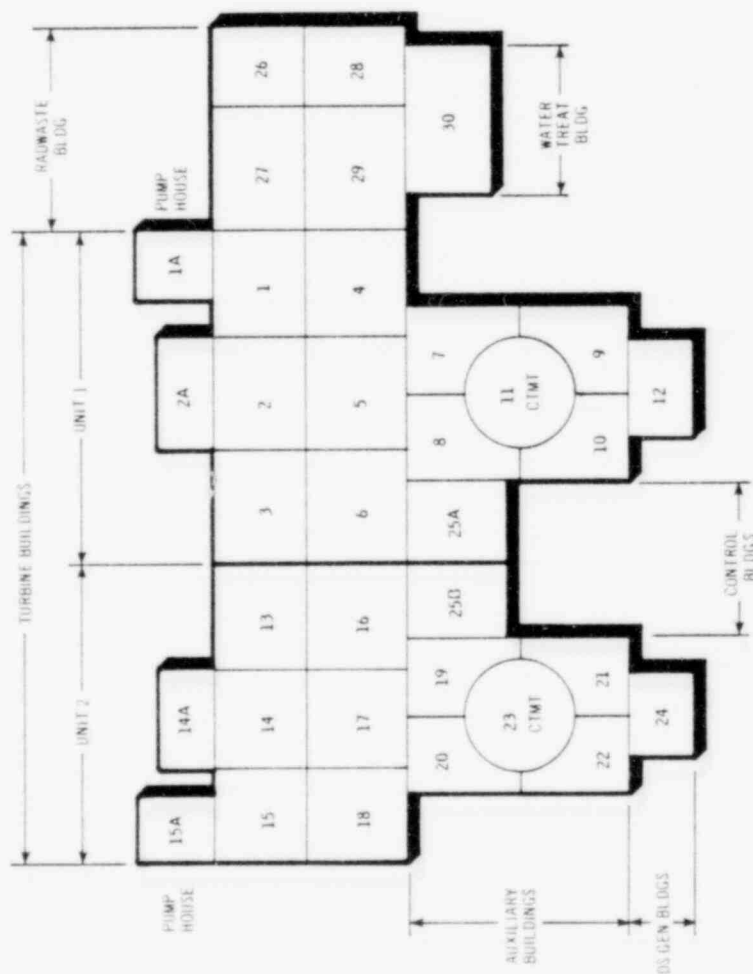
THIRD LETTER - APPLICABLE CODES

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

INDEX TO ISOS FOR C-4I SYSTEM

COMPOSITE: LC-0-1

ISOS: LC-0-1

LC-II-2

LC-II-3

LC-II-4

LC-II-5

LC-II-6

LC-II-7

LC-II-8

LC-II-9

LC-II-10

LC-II-11

LC-II-12

REV
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A

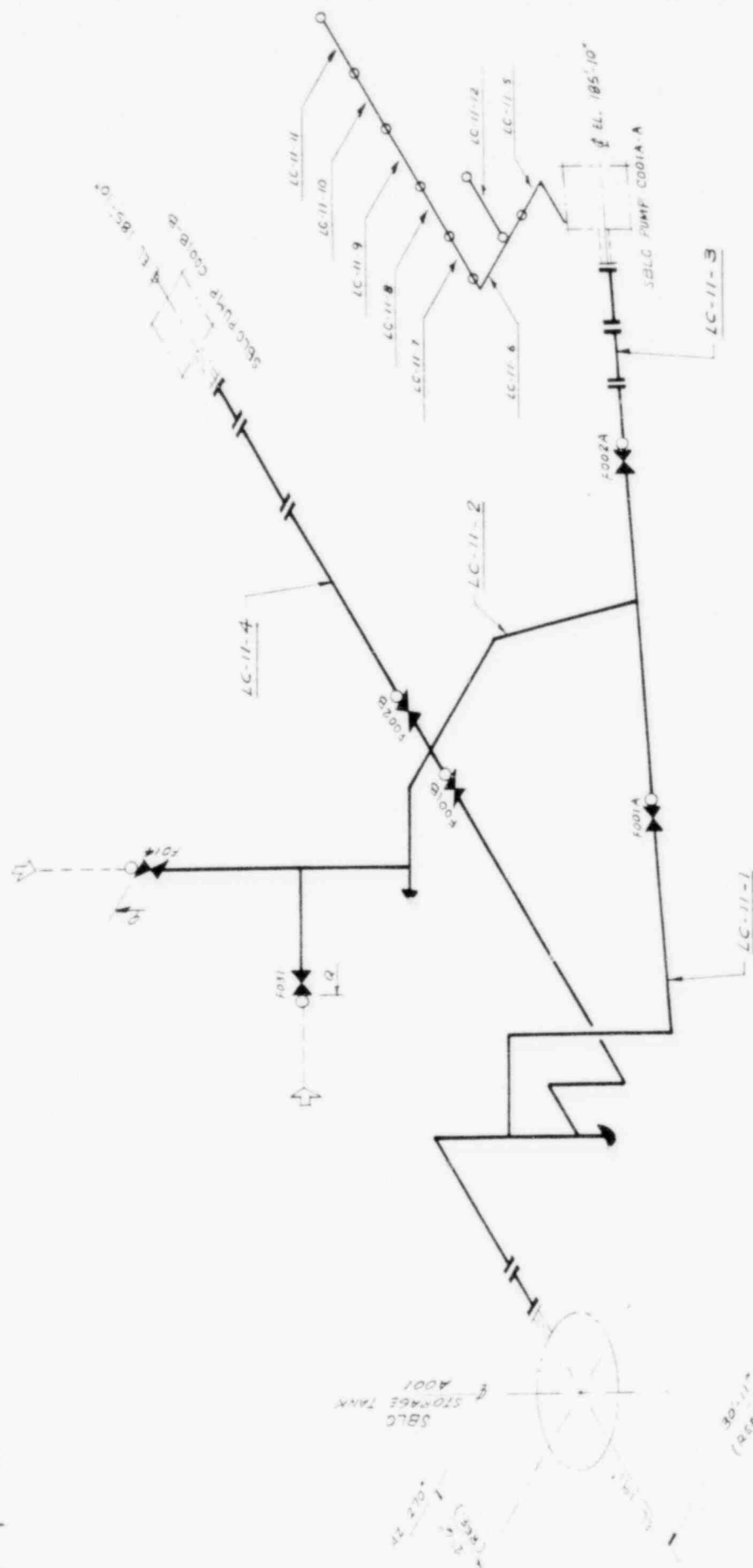
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REV	A
DATE	8/86



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No. Pipe Spools	6
No. Pipe Slip Welds	57
No. Pipe Field Welds	10
No. Vessels Welded	
TOTAL SIG. WELDS	

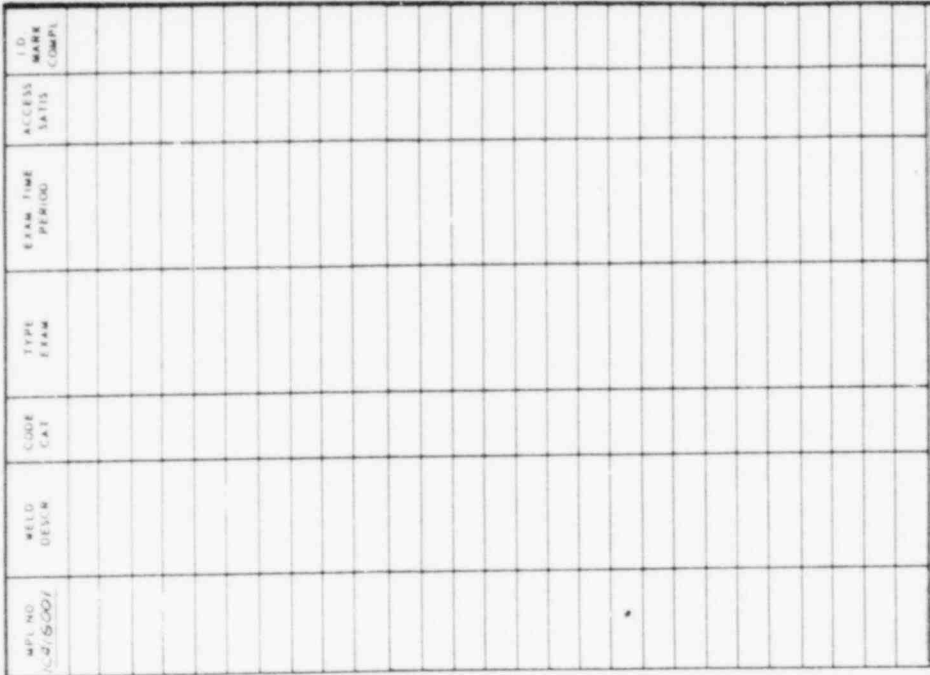
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PROJECT MPAL GG-i (JB-1)		LOCATION CTMT		REASON M-1345		REPAIR NO M-1082		MADE BY S. GRAUS		I&E - NSO ATLANTA		GENERAL ELECTRIC	
SYSTEM STANCY LIQUID CONTROL												DATE A REPAIR NO 1	



GENERAL ELECTRIC

LC-0-1



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3

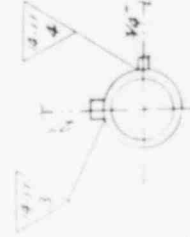
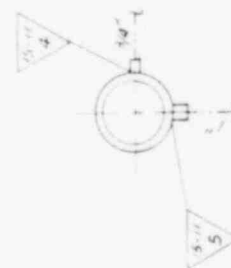
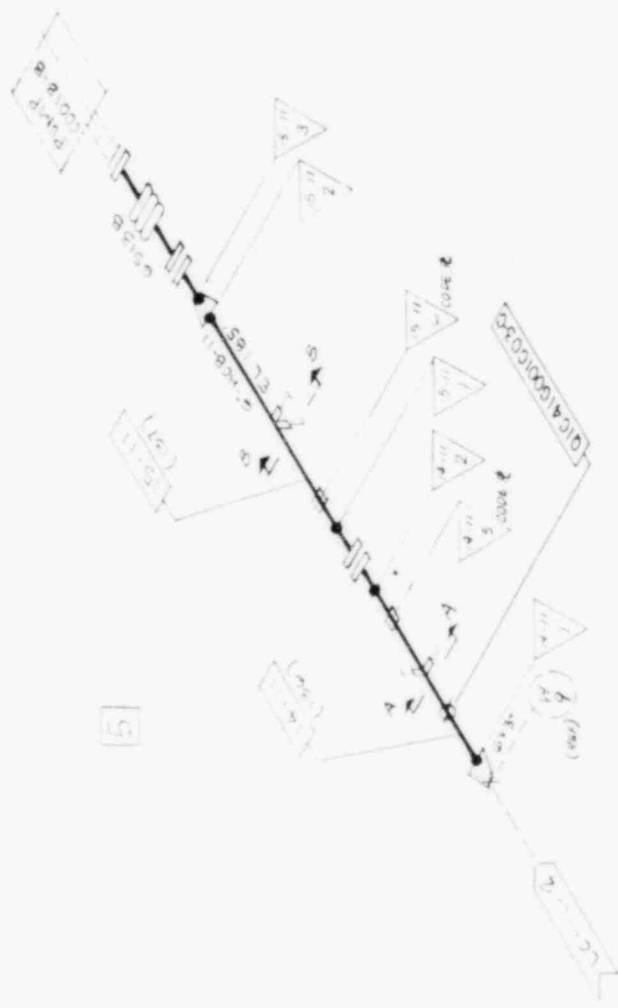
ORIGINAL COPY WHEN THIS IMPRINT IN RED	3
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PROPERTY		MP8L GG-1 (JB-1)		MADE BY 07-06-79		145E-N50		Y	
SYSTEM		STANDBY		LOCATION		S GRAUS		Z	
LIQUID		CTMT		REP ONE		181 DWS-00		100 TO	
CONTR.		M-1345		M-1082		LC-11		2	
						PAGE 1061			

LC-0-1



C-0-1



SECTION B-B

SECTION A-A

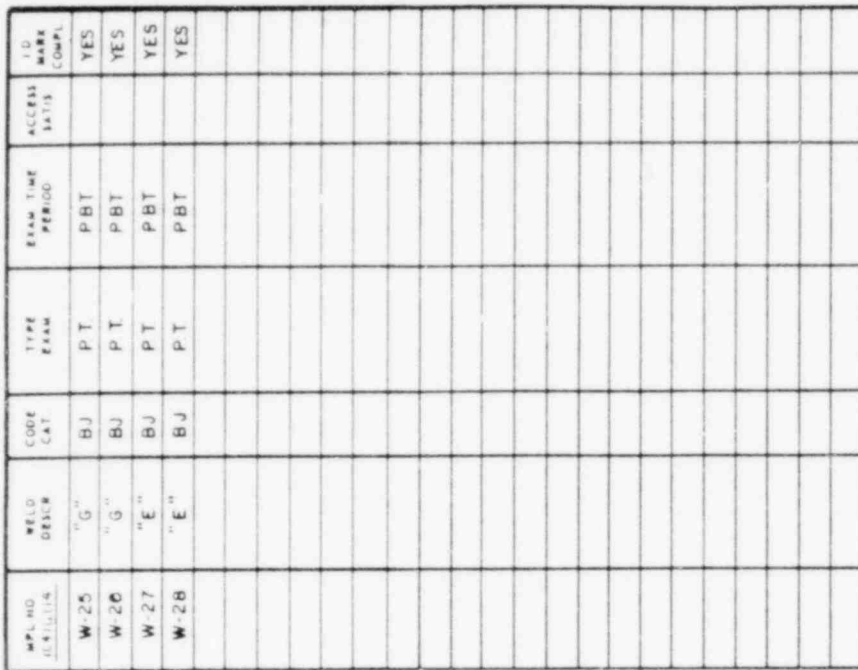
[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED

GENERAL ELECTRIC

PROJECT	MP8L GG-1 (JB-1)	REP ONE
SYSTEM	LOCATION	W-1345
STANDBY	CTMT	
LOCAL		
CONTROL		

LC-O-1



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	SYSTEM	LOCATION	REF. NO.	INSTR. NO.	SH. NO.
MP&L	STANDBY LIQUID CONTROL	GG-1 (JB-1) LC-11-C LC-11-14 C1ME PSK-S-04-C	M-1082	LC-11	5
			NOTED 02-19-81	1&SE-N50 ATLANTA	

LC-0-1

[illegible]

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GENERAL ELECTRIC

PROJECT	MP&L	GG-I (JB-I)	MADE BY R DILL	02-20-81	NSO ATLANTA	8
SERIES	STANDBY	LOCATION	REF PMS	REF PAID	IND DM NO	
DATE	LC II-7	CTMT	LC II-9		LC-II	
CONTROL	LIQUID		+SK-S-02-C	M-1082		

LC-0-1

* W-11 PEN. CLOSURE PLATE WELD

FW - FEEDWATER SYSTEM - B21

INFORMATION ONLY

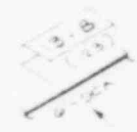
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[3]

DRAWING

SYMBOLS

LETTER SYMBOLS



SOCKET I.D. NO.
W/ VENDOR DKS NO.
IN PARENTHESES



LINE SIZE &
SPECIFICATION
DESIGNATION

SHOP WELD
I.D. NO.



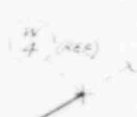
FIELD WELD
I.D. NO.



LONGITUDINAL SEAM
WELD I.D. NO.



DWG CONTINUATION
(ARROW POINTS IN
DIRECTION OF FLOW)

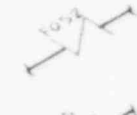


WELL COUNTED ON
CONTINUATION SHEET
AND SHOWN THIS
SHEET FOR REFERENCE



VALVE & I.D. NO.

INDICATES PRESSURE
RETAINING BOLTING



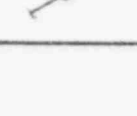
CHECK VALVE
& I.D. NO.



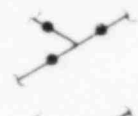
BFL BUTTERFLY
VALVE &
I.D. NO.



ELL



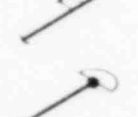
REDUCER



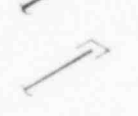
TEE



STUB-IN FITTING
(WOL, SOL, ETC)



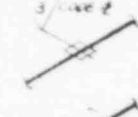
PLUGGED STUB-IN



WELD CAP



SCREWED CAP



PLAIN END



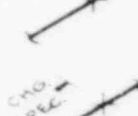
VENDOR CODE TAG
& SHOP WELD NO.



PENETRATION
SLEEVE



PENETRATION
SLEEVE W/ FLUED
HEAD OR SEAL
PLATE



"IN-LINE"
PENETRATION



LIMIT OF SAFETY
RELATED PIPING
& COMPONENTS



POINT OF DESIGN
SPECIFICATION
CHANGE

PIPING SYSTEMS

CC - CONTAINMENT COOLING
CD - CONDENSATE
CG - COMBUSTIBLE GAS
CR - CHILLED WATER
CS - COND/HW STORAGE & TRANSFER
CU - REACTOR WATER CLEANUP
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FC - FUEL POOL COOLING & CLEANUP
FD - FILTER/DEMIN (FPLCD)
FW - FEEDWATER
HP - HIGH PRESSURE CORE SPRAY
IA - INSTRUMENT AIR

LC - STANDBY LP/LID CONTROL
LD - LEAK DETECTION
LP - LOW PRESSURE CORE SPRAY
LR - LEAK RATE TEST SYSTEM
MS - MAIN STEAM
RD - CONTROL ROD DRIVE
RF - FILTER/DEMIN (RDCU)
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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 WELDOLET
J - FITTING TO FITTING
K - FITTING TO PUMP
L - FITTING TO VALVE
M - VALVE TO VALVE
N - PIPE TO SWEEPolet
P - PIPE TO SOCKolet
R - CODE TAG WELD

ABBREVIATIONS

AUX - AUXILIARY
BLDG - BUILDING
CL - CENTERLINE
CL - CLASS
COMP - COMPLETE or COMPONENT
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 or NOZZLE
PEN - PENETRATION

REV - REVISION
RPV - REACTOR VESSEL
RX - REACTOR
SCH - SCHEDULE
SHT - SHEET
SOL - SOCKolet
STD - STANDARD

SW - STEAM
TOL - THRODLET
TURB - TURBINE
WOL - WELDOLET

HANGERS

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

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SCALE FOR

NONE

JOB NO.

J8-1

CONTRACT NO.

360N74002

MADE FOR

MISSISSIPPI

POWER &

LIGHT

TITLE

LEGEND FOR

ISI ISOMETRIC

DRAWINGS

PROJECT

GRAND GULF

NUCLEAR PLANT

GENERAL ELECTRIC

NUCLEAR SERVICE OPERATION

INSTALLATION & SERVICE ENGINEERING DIV.

ATLANTA, GEORGIA

DRAWING NO.

35IN79B0006

SHEET NO. 1 OF 3

REV

A

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 2000 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.

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 SHEET 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 35IN74B0007)
SYSTEM LETTER SYMBOL

B. CLASS 3 SYSTEMS

EXAMPLE: CU-103

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

INFORMATION ONLY

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SCALE NONE	FORM NO. JB-1	TITLE LEGEND FOR ISI ISOMETRIC DRAWINGS	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV ATLANTA, GEORGIA
CONTRACT NO. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT	
MADE FOR MISSISSIPPI POWER & LIGHT		DRAWING NO. 35IN74B0006	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 ROOM 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 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

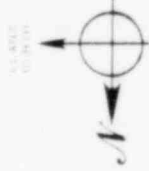
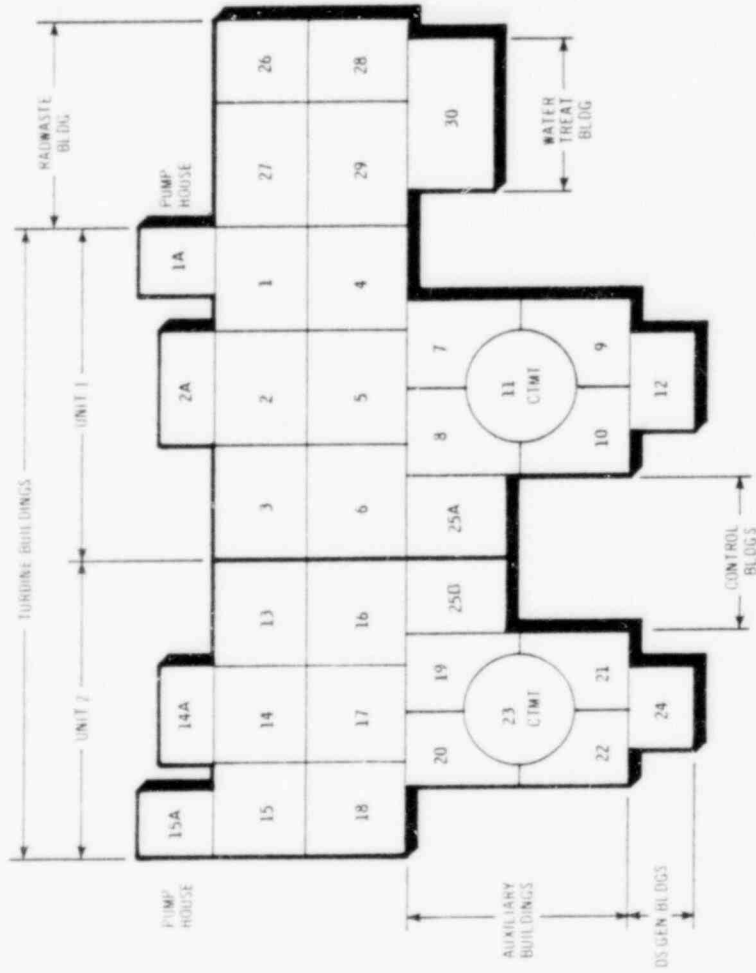
Z FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3. DESIGNED PER ANSI B31.1.
N - STAMPING, SEISMIC ANALYSIS AND Q - LISTING ARE
NOT REQUIRED.

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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. 351N79B0006	REV A
MADE FOR MISSISSIPPI POWER & LIGHT CO.		SHEET NO. 3 OF 3			



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GRAND GULF NUCLEAR STATION UNITS 1 AND 2

PORT GIBSON, MISSISSIPPI
 MISSISSIPPI POWER & LIGHT COMPANY

ORIGINAL COPY WHEN THIS IMPRINT IS RED

SCALE NONE	JOB NO. JB-1	TITLE KEY PLAN	GENERAL ELECTRIC
CONTRACT NO. 360N74002	AREA LOCATIONS	NUCLEAR SERVICE OPERATION	ATLANTA, GEORGIA
MADE FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO. 35IN 8080007	REV. A

INDEX TO ISOS FOR B-21 SYSTEM-FEED WATER

COMPOSITE: FW-0-1

ISOS: FW-8-1

FW-8-2

FW-II-1

FW-II-2

FW-II-3

FW-II-4

FW-II-5

FW-II-6

REV
A
A
A
A
A
A
A
A
A

COMPOSITE: FW-0-2

ISOS: FW-8-3

FW-8-4

FW-8-5

FW-II-7

FW-II-8

FW-II-9

FW-II-10

FW-II-11

FW-II-12

REV
A
A
A
A
A
A
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A
A

INFORMATION ONLY

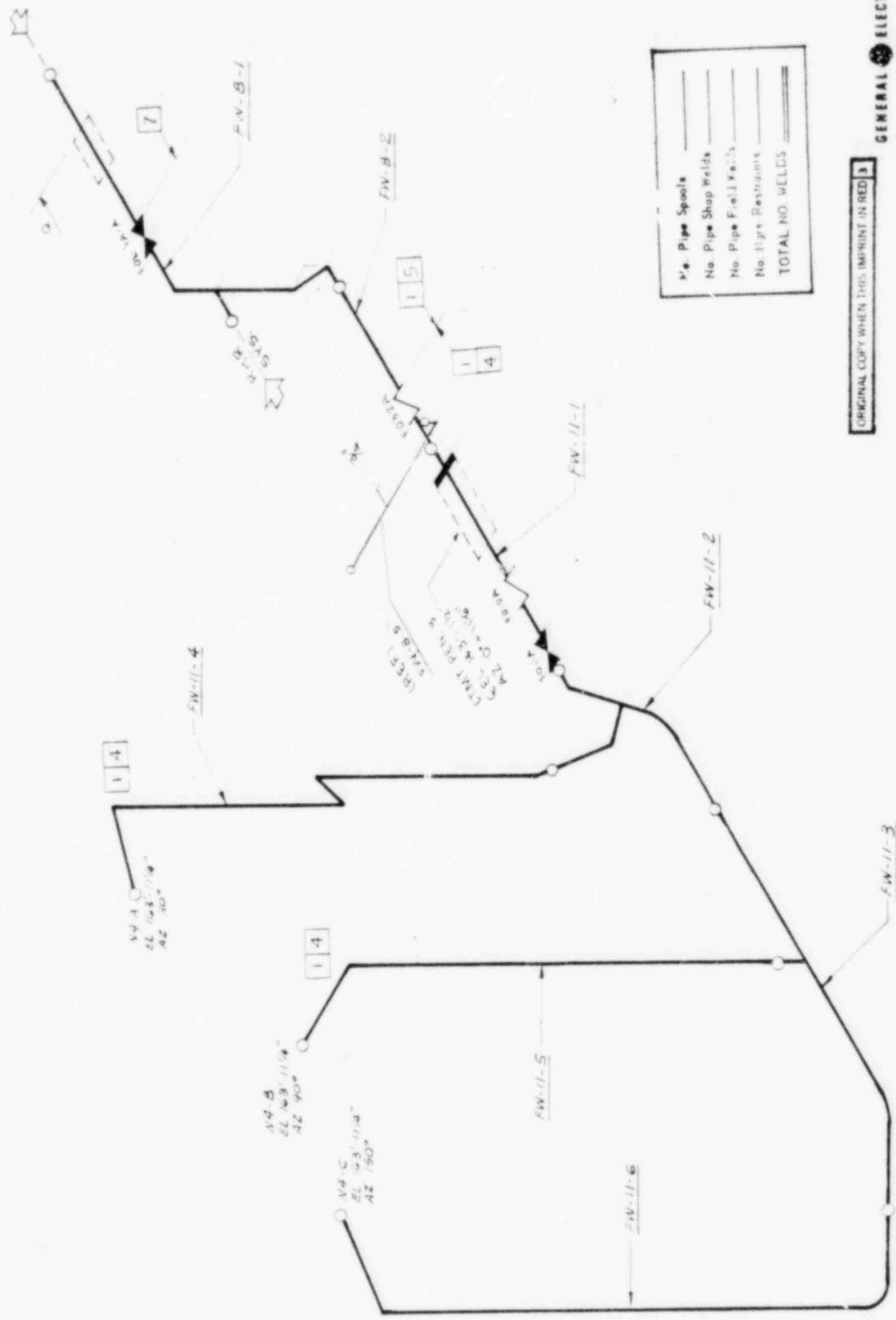
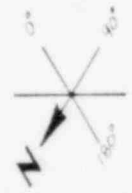
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OR MAINTENANCE

3

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

REV	A
DATE	11-24-81

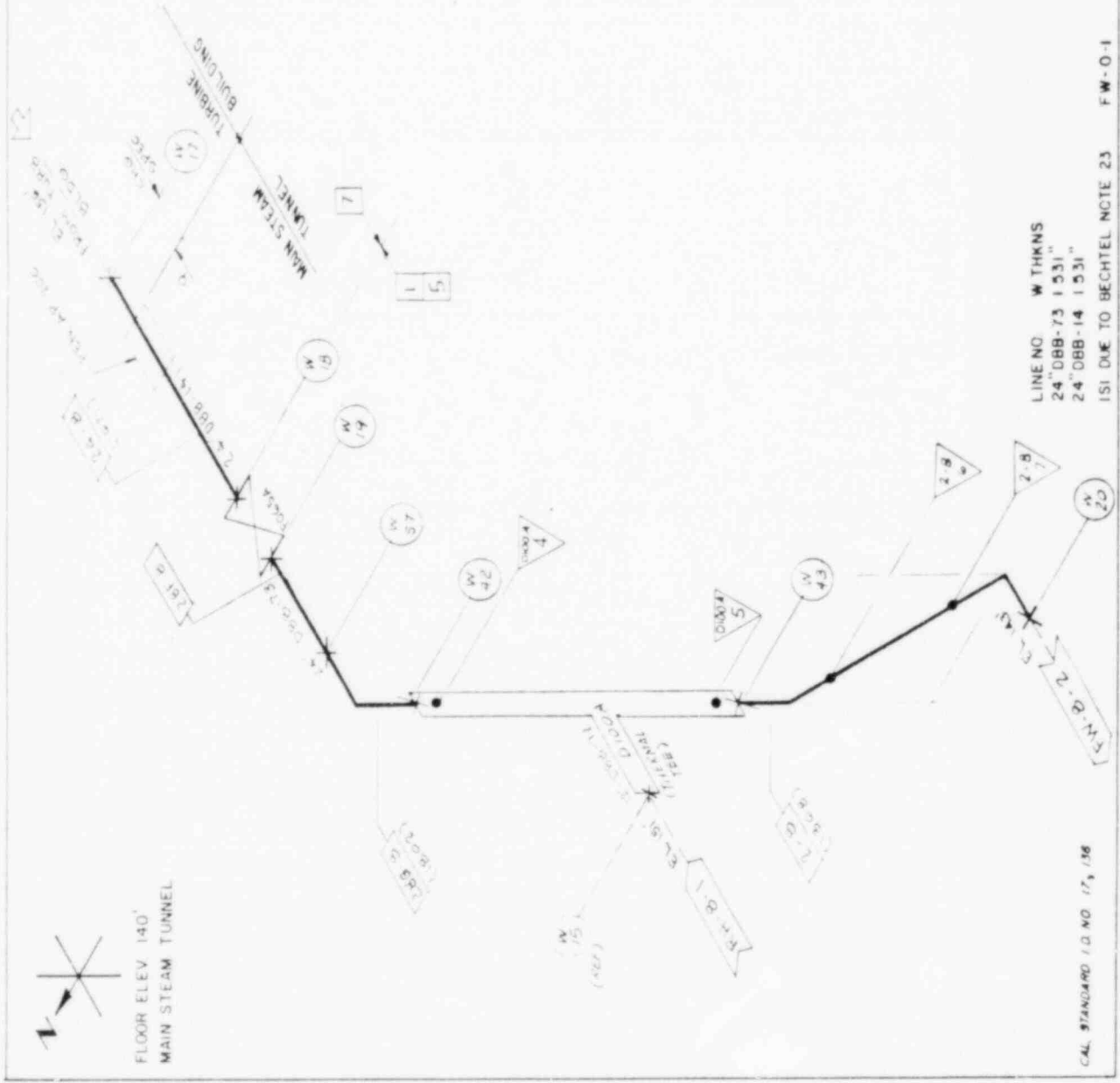
REF MPL: 1B21



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC			
PROJECT	MPBL	GG-1 (JB-1)	MADE BY
FEED WTR	CTMT B	M-1328J	S. GRAUS
"A" LOOP	AUX BLDG	M-1328K	12-04-78
			ATLANTA
			FW-0
			SK-M-1599
			PAGE 1 OF 1

INFORMATION ONLY
NOT TO BE USED FOR FABRICATION OR MAINTENANCE



AMPL. NR. 1821 6030	WELD DESCR.	CODE CAT.	TYPE EXAM.	EXAM. TIME PERIOD	ACCESS SATIS.	I.D. MARK COMP.
W-17	"E"	CF	UT	8-10-79		YES
W-18	"G"	CF	UT	8-10-79		YES
W-19	"G"	CF	UT	6-18-80		YES
W-57	"C"	CF	UT	6-18-80		YES
W-42	"J"	CF	UT	6-19-80		YES
D100A4	"C"	CF	UT	10-17-80		YES
D100A5	"C"	CF	UT	10-17-80		YES
W-43	"J"	CF	UT	6-18-80		YES
2-B-6	"C"	CF	UT	9-21-79		YES
2-B-7	"C"	CF	UT	6-18-80		YES
W-20	"C"	CF	UT	6-18-80		YES
W-17	"E"	CF	PT	PBT		YES
W-18	"G"	CF	MT	03-11-81		YES
W-19	"G"	CF	MT	03-11-81		YES
W-57	"C"	CF	MT	03-11-81		YES
W-42	"J"	CF	MT	02-10-81		YES
D100A4	"C"	CF	MT	02-10-81		YES
D100A5	"C"	CF	MT	02-10-81		YES
W-43	"J"	CF	MT	02-10-81		YES
2-B-6	"C"	CF	MT	02-10-81		YES
2-B-7	"C"	CF	MT	02-10-81		YES
W-20	"C"	CF	MT	02-10-81		YES

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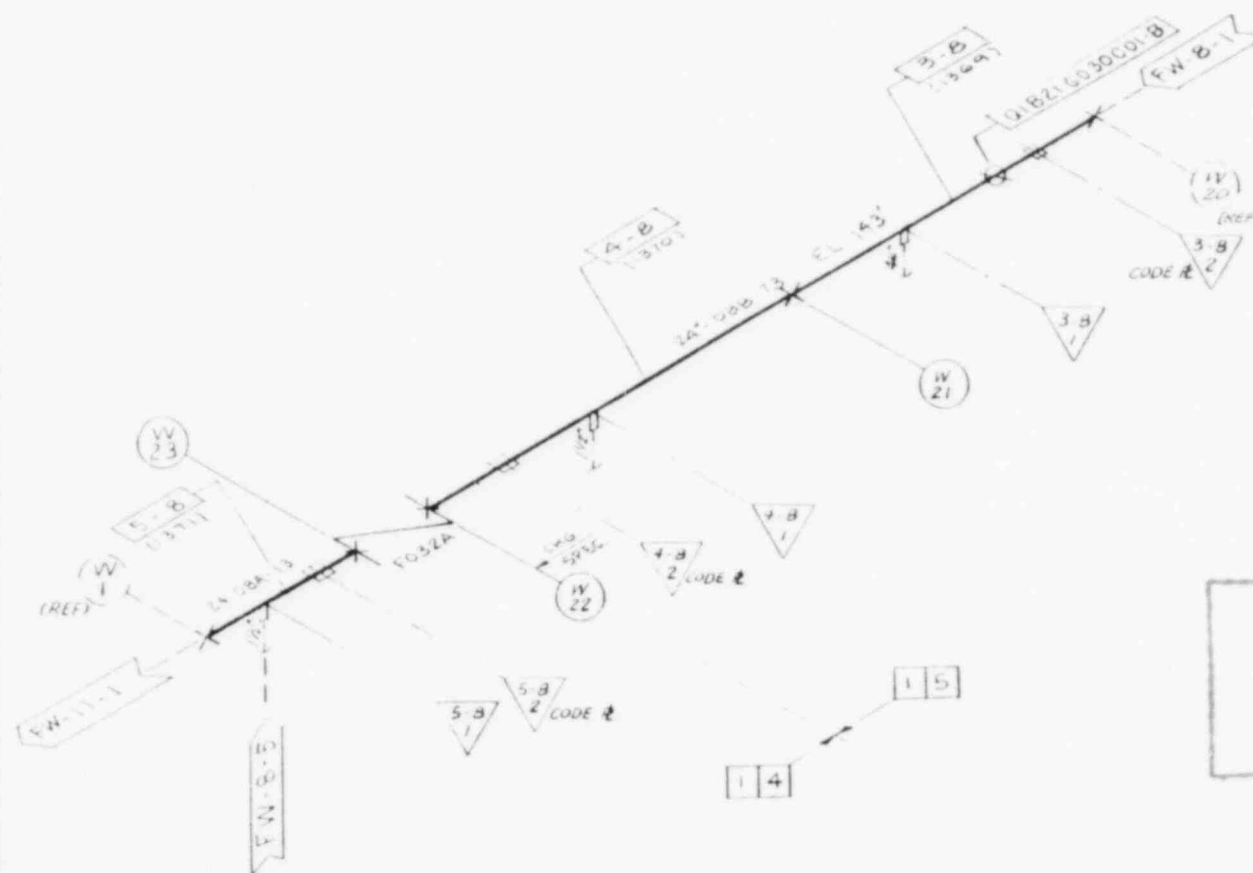
ORIGINAL COPY WHEN THIS PRINT IN RED 3

MPBL	GG-1	(JB-1)	BASE NSO	DATE	BY
SYSTEM	LOCATION	REP. ISO	DATE	DATE	DATE
FEED WTR	STEAM	M-1328K	M-1077A	FW-B	FW-B
LOOP A	TUNNEL		SK-M-1599	PAGE 1 of 1	

LINE NO. W THKNS
24" DBB-73 1 531"
24" DBB-14 1 531"
ISI DUE TO BECHTEL NOTE 23 FW-O-I

CAL STANDARD I.D. NO. 17, 136

FLOOR ELEV. 140'
MAIN STEAM TUNNEL



MPL. N°	WELD	CODE	TYPE	EXAM. TIME	ACCESS	I.D.
1821 G050	DESCR.	CAT.	EXAM.	PERIOD	SATIS.	MARK
W-21	"E"	CF	UT	09-13-79		YES
W-22	"G"	CF	UT	06-18-80		YES
W-23	"G"	BJ	UT	09-12-79		YES
W-21	"E"	CF	MT	02-10-81		YES
W-22	"G"	CF	MT	02-10-81		YES
W-23	"G"	BJ	MT	02-10-81		YES
5-B-1	"E"	BJ	P.T.	TEXAS PIPE		YES
COI-B	HANGER	CE	VT			N/A

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CAL STANDARD 10 NO. 17 & 11

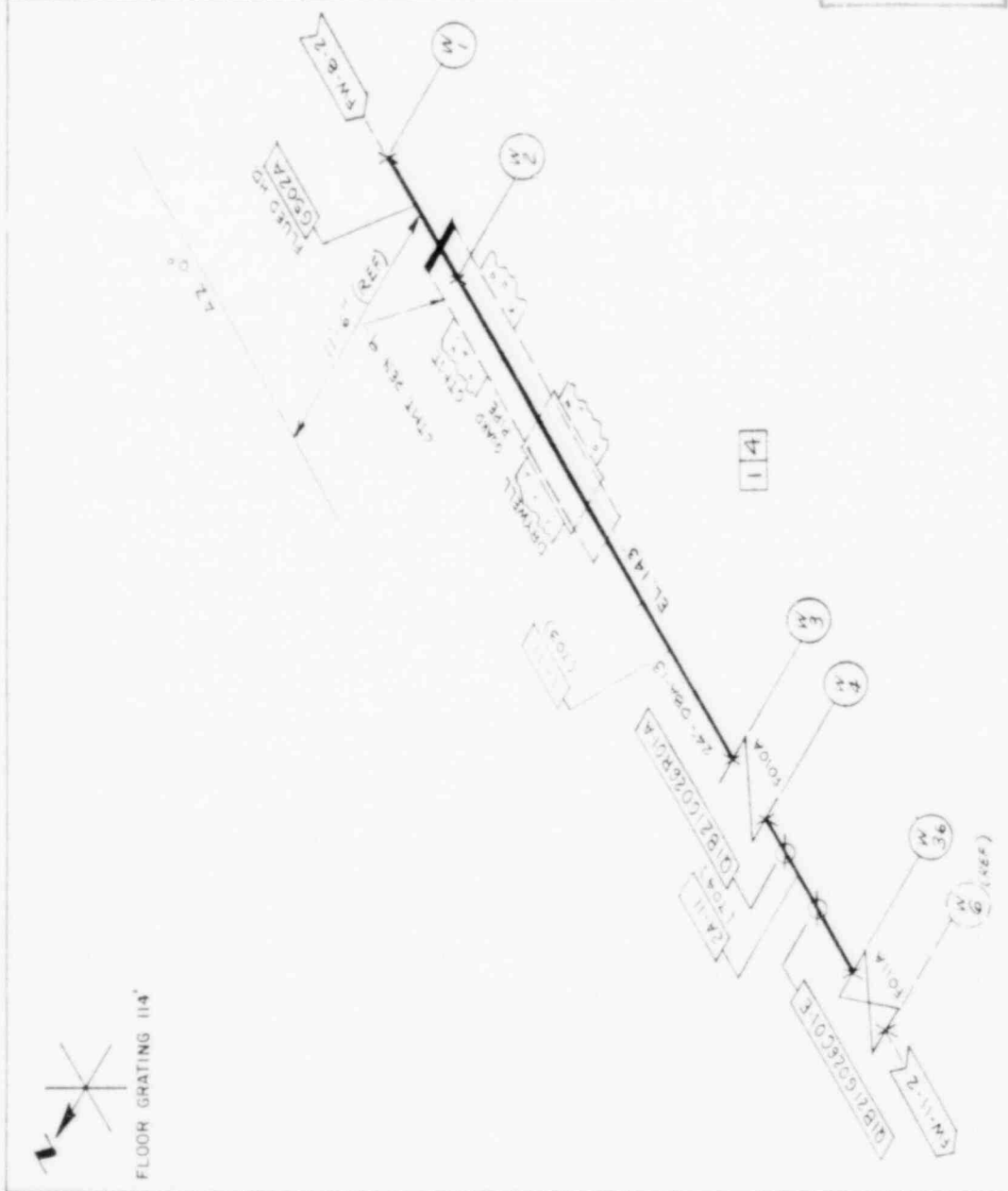
LINE NO. W THKNS.
24" DBB-73 1531"
151 DUE TO BECHTEL NOTE 23

FW-0-1

MP&L	GG-1	(JB-1)	DWG 03-09-77 S GRAUS	BASE NSO ATLANTA	REV DATE
SYSTEM FEED WTR LOOP A	LOCATION STEAM TUNNEL	REP ISO M-1328K	REP PAID M-1077A	DWG NO FW-B	SHT 2
			SK-M-1599	PAGE 1 of 1	

MPL NR (E21.0026)	WELD DESCR	CODE (A)	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK CONAP
W-1	"E"	BJ	UT	08-23-79		YES
W-2	"E"	BJ	UT	07-01-80		YES
W-3	"G"	BJ	UT	06-28-80		YES
W-4	"G"	BJ	UT	06-28-80		YES
W-36	"G"	BJ	UT	06-28-80		YES
W-1	"E"	BJ	PT	PBT		YES
W-2	"E"	BJ	PT	PBT		YES
W-3	"G"	BJ	PT	PBT		YES
W-4	"G"	BJ	MT	PBT		YES
W-36	"G"	BJ	MT	PBT		YES
COI-E	HANGER	BK-2	VT			N/A
ROI-A	HANGER	BK-2	VT			N/A

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MPBL	GG-1	(JB-1)	02-22-77	IBSE NSO	ATLANTA	FW-0-1
SYSTEM	FEED WTR	LOOP A	S GRAUS	REF PAID	DWG NR	SK-M-1599
	AREA	CTMT	REP ISO	M-1077A	FW-11	PAGE 1 of 1
				M-1328J		

NPL NR 1021 0026	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATS	I.D. MARK COMP
W-6	"L"	BJ	UT	09-17-79		YES
3-II-1	"J"	BJ	UT	09-17-79		YES
3-II-4	"C"	BJ	UT	07-24-79		YES
3-II-5	"C"	BJ	UT	09-20-79		YES
3-II-6	"C"	BJ	UT	09-20-79		YES
W-II	"C"	BJ	UT	09-20-79		YES
3-II-2	"J"	BJ	UT	09-18-79		YES
W-35	"E"	BJ	UT	08-08-80		YES
3-II-3	"C"	BJ	UT	07-17-79		YES
W-6	"L"	BJ	PT	PBT		YES
3-II-1	"J"	BJ	PT	TEXAS PIPE		YES
3-II-4	"C"	BJ	PT	TEXAS PIPE		YES
3-II-5	"C"	BJ	PT	TEXAS PIPE		YES
3-II-6	"C"	BJ	PT	TEXAS PIPE		YES
W-II	"C"	BJ	PT	PBT		YES
3-II-2	"J"	BJ	PT	TEXAS PIPE		YES
W-35	"E"	BJ	PT	PBT		YES
3-II-3	"C"	BJ	PT	TEXAS PIPE		YES
R05-A	HANGER	BK2	VT			N/A
H01-D	HANGER	BK2	VT			N/A

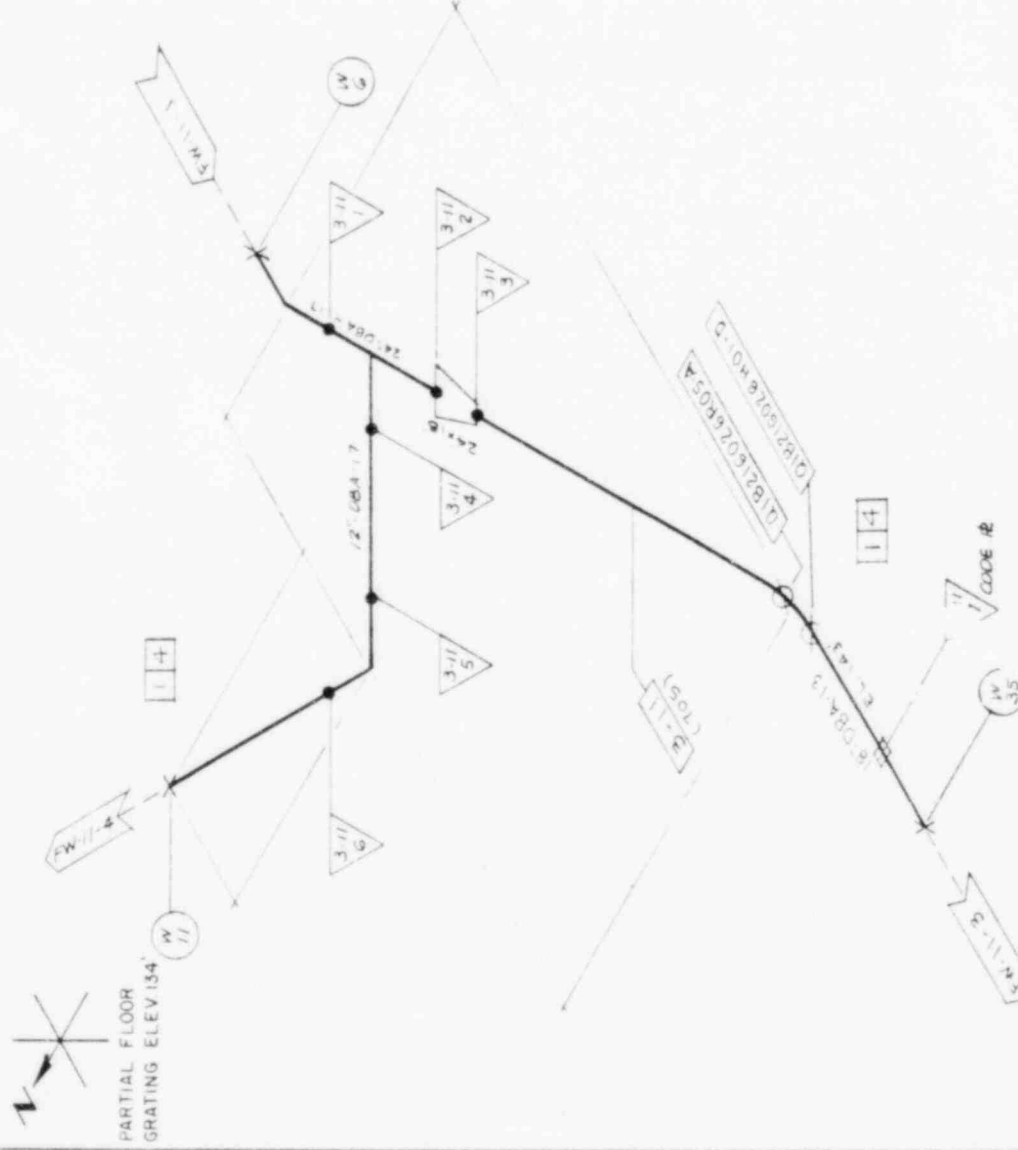
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MPAL	GG-1	(JB-1)	02-23-77	IBSE NSO
SYSTEM	AREA	REF 130	S GRAUS	ATLANTA
FEED WTR	CTMT	M-1328J	REF P2	DWG NR
LOOP A			M-1328J	FW-11
			SK-M-1599	PAGE 1 of 1

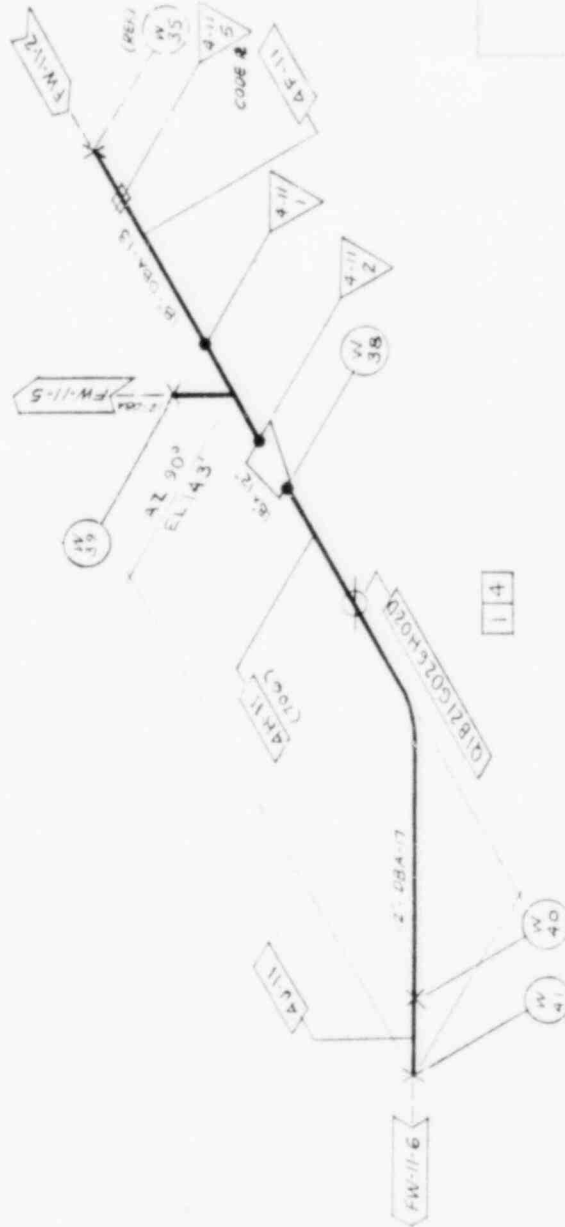
FW-0-1

CAL STANDARD ID NO. 6, 8, 9





PARTIAL FLOOR GRATING ELEV 134'



INFORMATION ONLY

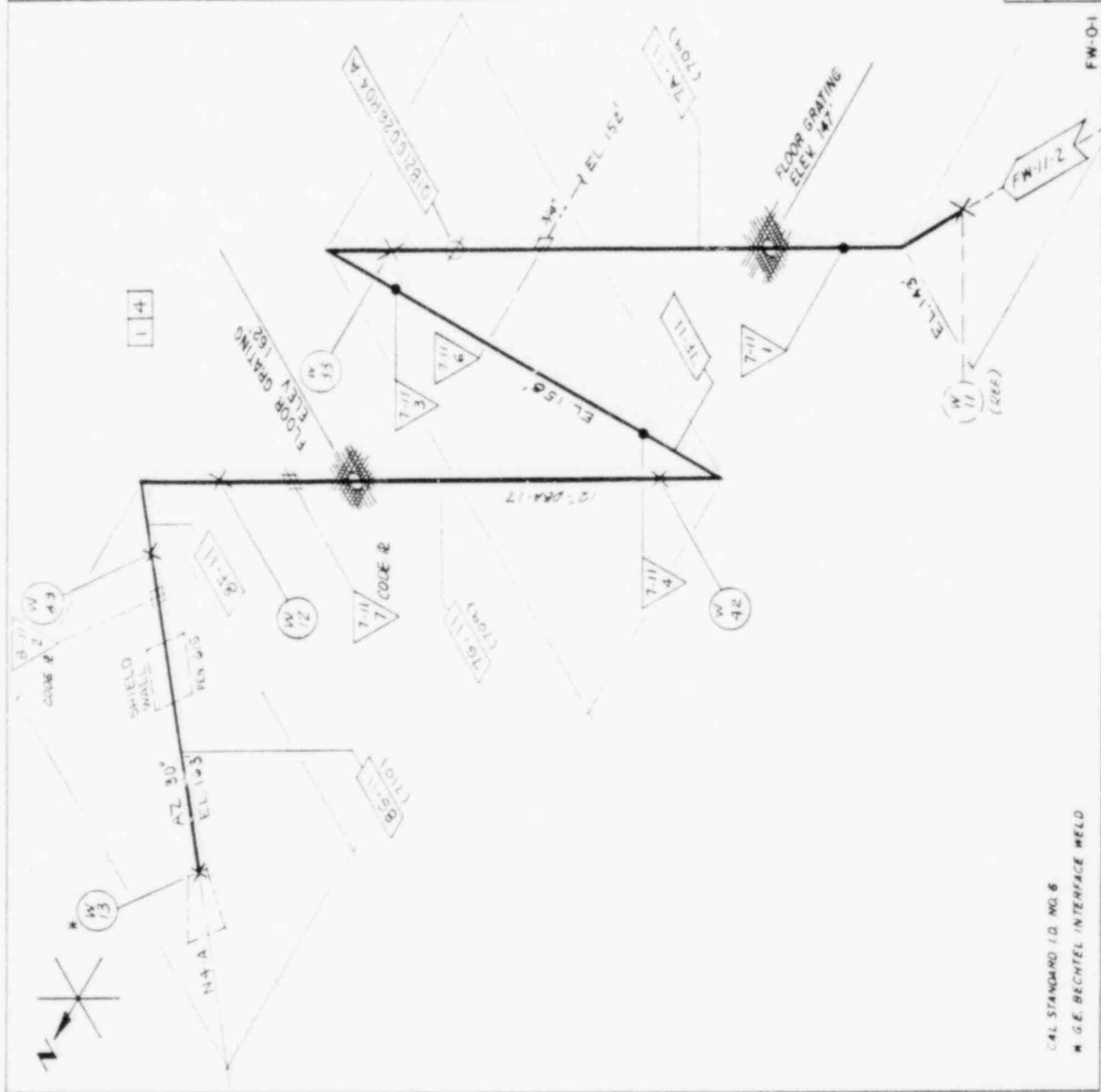
NOT TO BE USED FOR CONSTRUCTION

FOR INFORMATION ONLY

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MP&L GG-1 (JB-1)		02-23-77	BASE NSO
SYSTEM	AREA	S. GRAVS	ATLANTA
FEED WTR	CTMT	REF PAID	OWB NR
LOOP A		M-1077A	FW-II
		SK-M-1599	PAGE 10/1

MPIL NR 1821 G026	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	ID MARK COMP
7-11-1	"C"	BJ	UT	09-20-79		YES
W 33	C	BJ	UT	08-08-80		YES
7-11-3	"C"	BJ	UT	10-09-79		YES
7-11-4	"C"	BJ	UT	10-09-79		YES
W 42	"C"	BJ	UT	06-11-80		YES
W 12	"C"	BJ	UT	08-07-80		YES
W 43	"C"	BJ	UT	08-07-80		YES
W 13	"D"	BJ	UT	08-07-80		YES
7-11-1	"C"	BJ	PT	TEXAS PIPE		YES
W 33	"C"	BJ	PT	FBT		YES
7-11-3	"C"	BJ	PT	TEXAS PIPE		YES
7-11-4	"C"	BJ	PT	TEXAS PIPE		YES
W 42	"C"	BJ	PT	PBT		YES
W 12	"C"	BJ	PT	PBT		YES
W 43	"C"	BJ	PT	PBT		YES
W 13	"D"	BJ	PT	PBT		YES
RO4-A	HANGER	BK2	VT			N/A

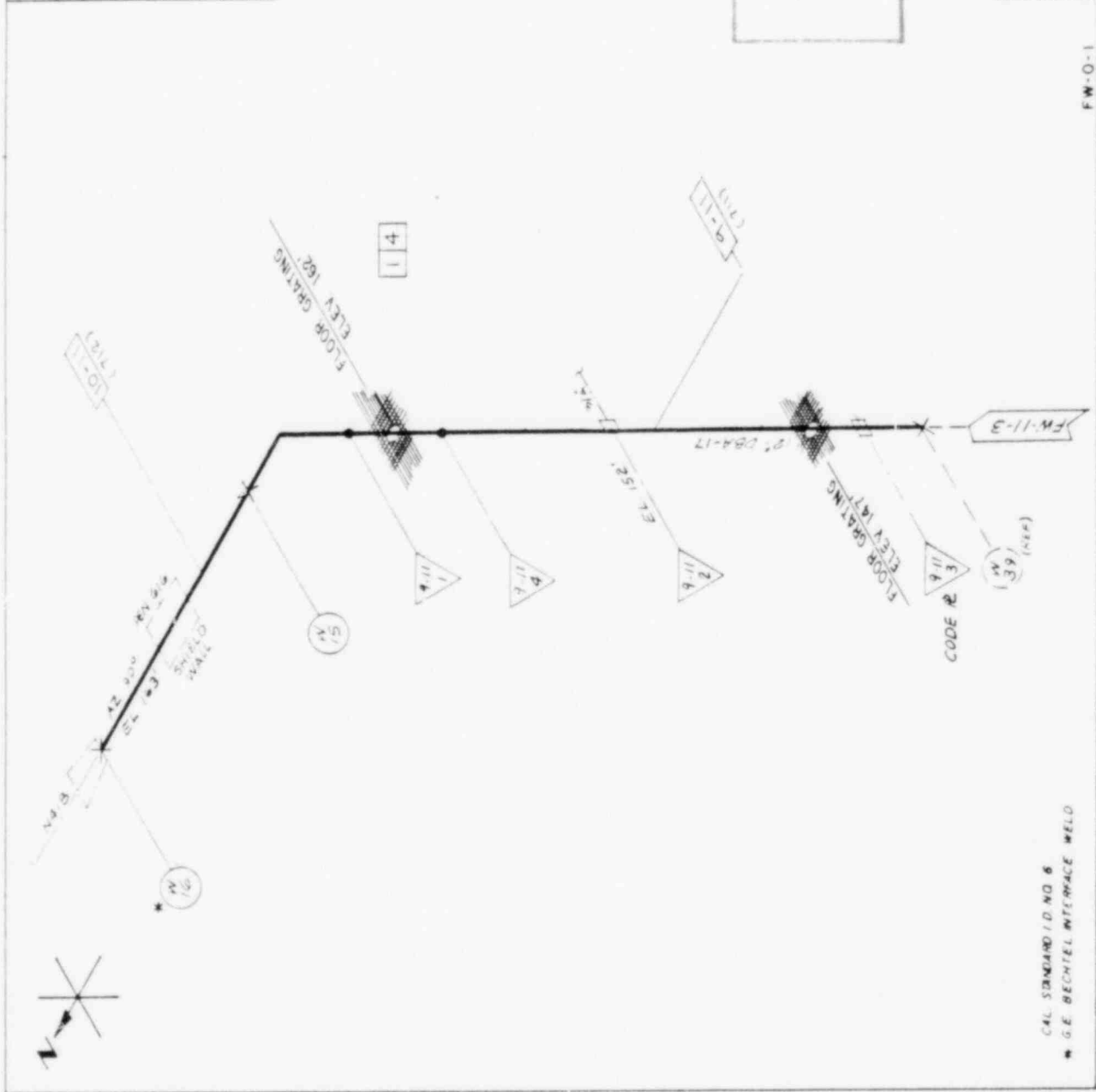


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MPBL	GG-1	(JB-1)	02-23-77	IBSE NSO	ATLANTA	2
SYSTEM	FEED WTR	LOOP A	REF PSTD	OWG NR	FW-11	4
AREA	CTMT	M-1328J	SK-M-1599	PAGE 1 of 1		

CAL STANDARD I.D. NO. 6
W G.E. BECHTEL INTERFACE WELD

MAPL NO IBZ1 6026	WELD DESCR	CODE CAT	YR EXAM	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMP
9-11-4	"E"	BJ	UT	07-16-79		YES
9-11-1	"C"	BJ	UT	05-09-80		YES
W-15	"C"	BJ	UT	08-07-80		YES
W-16	"D"	BJ	UT	08-07-80		YES
9-11-4	"E"	BJ	PT	TEXAS PIPE		YES
9-11-1	"C"	BJ	PT	TEXAS PIPE		YES
W-15	"C"	BJ	PT	PBT		YES
W-16	"D"	BJ	PT	PBT		YES



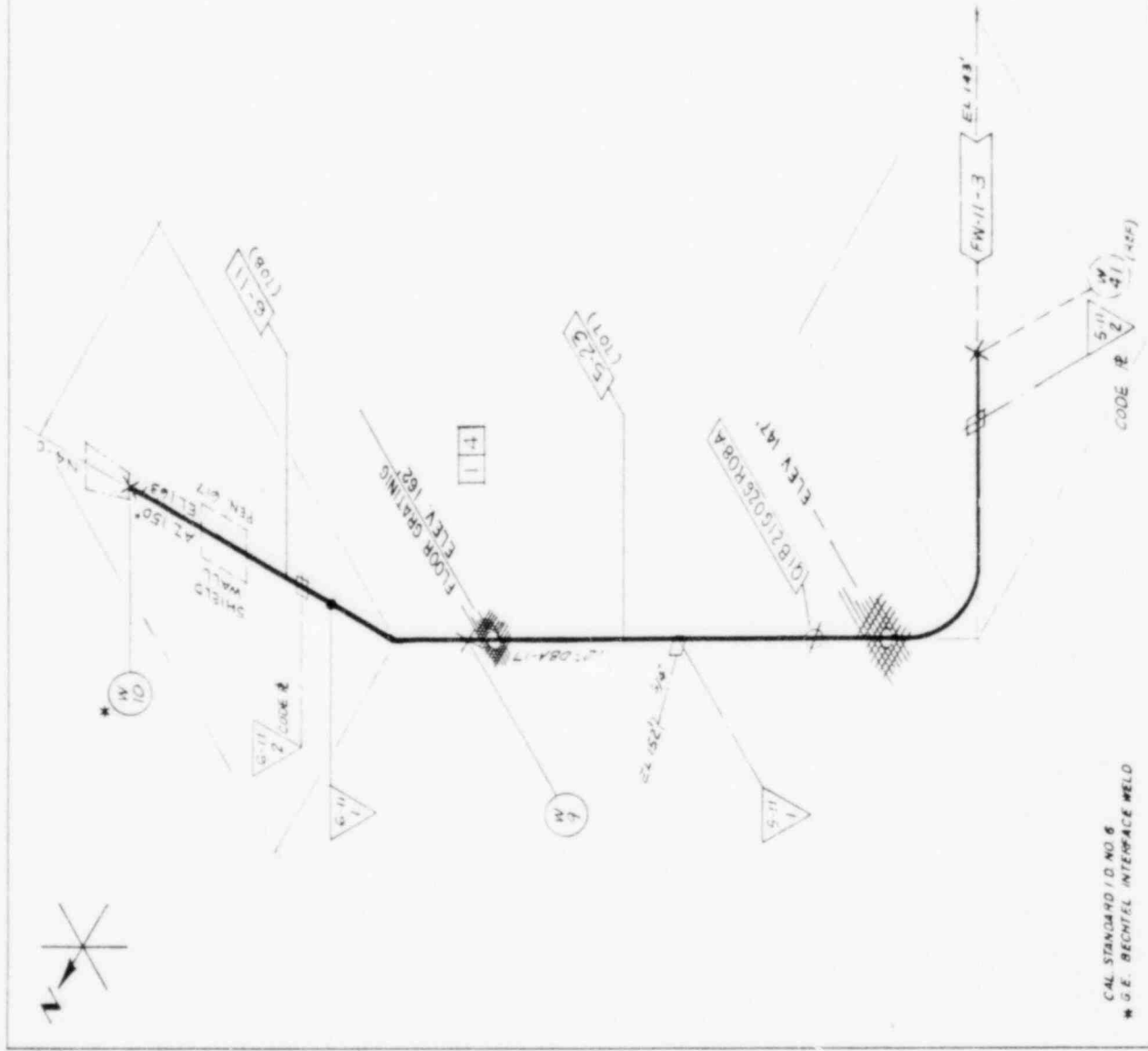
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MPBL	GG-1	(JB-1)	02-24-77	BASE NSO	ATLANTA	REV
SYSTEM	AREA	REF 130	S. GRAUS	REP PAID	DWG. NO	SAT
FEED WTR	CTMT	M-1328J	M-1077A	FW-11	PAGE 1 of 1	5
LOOP A			SK-M-1599			

CAL STANDARD NO 6
G.E. BECHTEL INTERFACE WELD

MPL NR ID21 G086	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	ID MARK COMP
W-9	"C"	BJ	UT	08-09-80		YES
6-11-1	"C"	BJ	UT	08-09-80		YES
W-10	"D"	BJ	UT	08-11-80		YES
W-9	"C"	BJ	PT	PBT		YES
6-11-1	"C"	BJ	PT	TEXAS PWE		YES
W-10	"D"	BJ	PT	PBT		YES
ROB A	HANGER	BK2	VT			N/A



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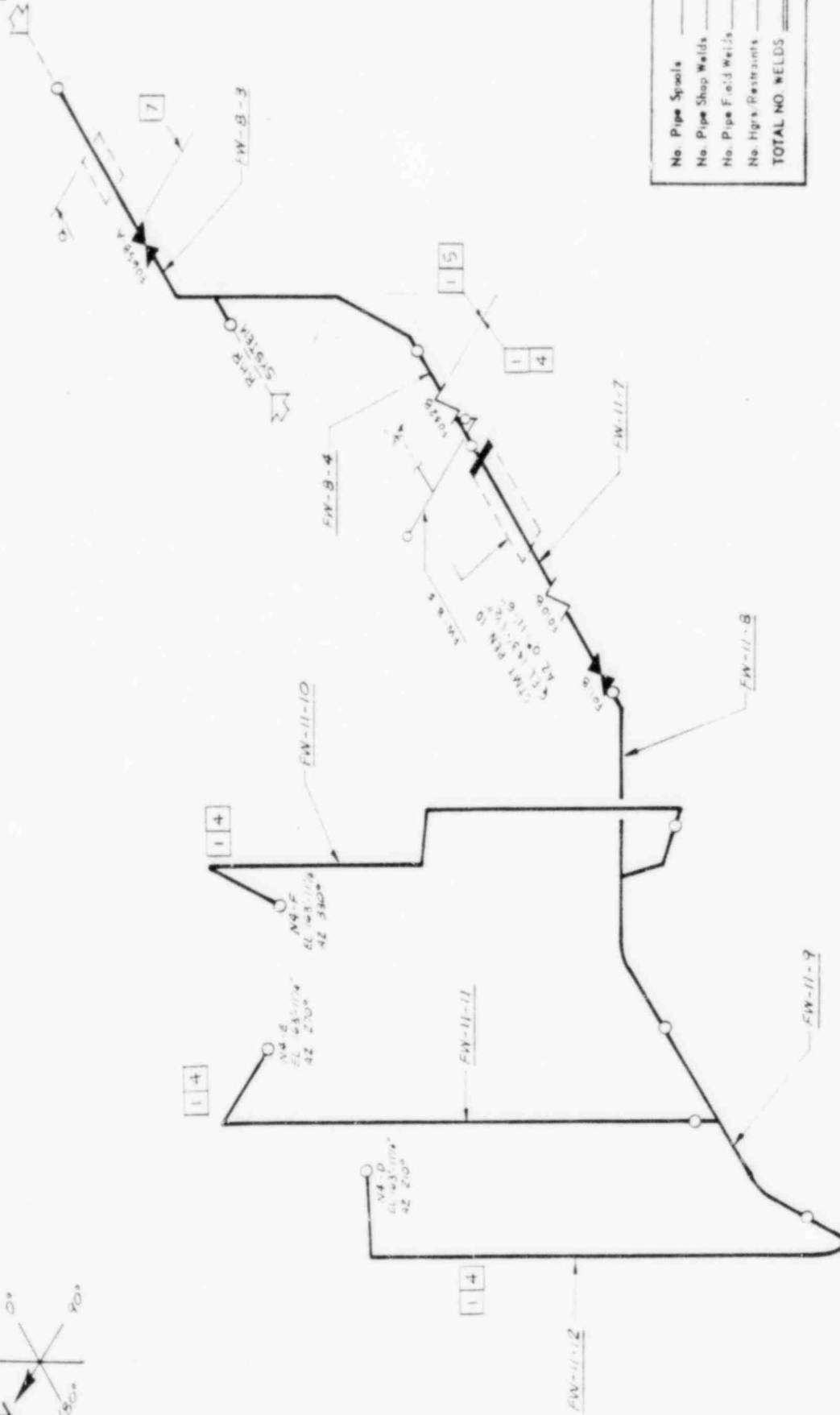
ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MPBL	GG-1	(JB-1)	02-24-77	IBSE NSO	31W
SYSTEM	AREA	REF 150	S GRAUS	P/LANTA	SHT
FEED WTR	CTMT	M-1328J	REF P&ID	DWG. NO	6
LOOP A			M-1077A	FW-11	
			SK-M-1599	PAGE 1 of 1	

CAL STANDARD I.D. NO. 8
 G.E. BECHTEL INTERFACE WELD

FW-0-1

REF MPL 1921

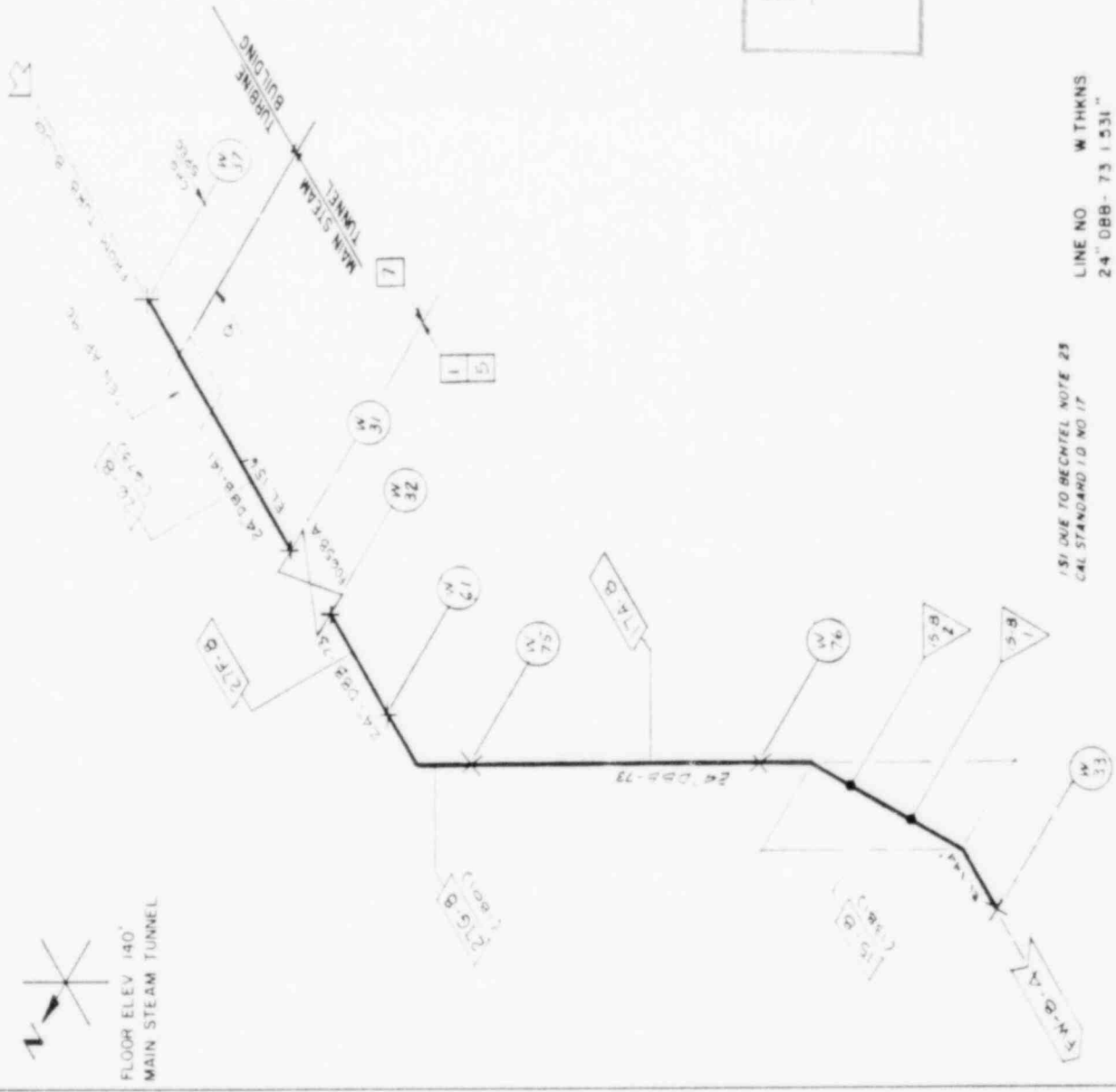


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GENERAL ELECTRIC			
PROJECT	MP&L	GG-1	(JB-1)
SYSTEM	FEED WTR	LOCATION	CTMTB
FEED WTR	B LOOP	AUX BLDG	M-132BK
MADE BY	12-11-76	ISSUE-NSO	ATLANTA
REP NO.	M-1077A	FW-0	2
SK-M-1599A	Page 1 of 1		

MPL NR (B21 6030)	WELD DESCR.	CODE CA (TYPE EXAM	EXAM. TIME PERIOD	ACCESS SATIS	I D MARK COMP
W-37	"F"	CF	UT	08-10-79		YES
W-31	"G"	CF	UT	08-10-79		YES
W-32	"G"	CF	UT	08-16-80		YES
W-61	"C"	CF	UT	06-16-80		YES
W-75	"C"	CF	UT	06-16-80		YES
W-76	"C"	CF	UT	06-16-80		YES
15-B-2	"C"	CF	UT	08-25-79		YES
15-B-1	"C"	CF	UT	09-25-79		YES
W-33	"C"	CF	UT	06-16-80		YES
W-37	"F"	CF	MT	03-11-81		YES
W-31	"G"	CF	MT	03-11-81		YES
W-32	"G"	CF	MT	02-10-81		YES
W-61	"C"	CF	MT	02-10-81		YES
W-75	"C"	CF	MT	02-10-81		YES
W-76	"C"	CF	MT	02-10-81		YES
15-B-2	"C"	CF	MT	02-10-81		YES
15-B-1	"C"	CF	MT	02-10-81		YES
W-33	"C"	CF	MT	02-10-81		YES

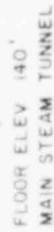


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DATE	BY	REVISION	DESCRIPTION
08-10-79	W-37	1	IBSE NSO
08-10-79	W-31	2	ATLANTA
08-16-80	W-32	3	FW-B
06-16-80	W-61	4	SK-M-1599
06-16-80	W-75	5	PAGE 1 of 1
06-16-80	W-76	6	
08-25-79	15-B-2	7	
09-25-79	15-B-1	8	
06-16-80	W-33	9	
03-11-81	W-37	10	
03-11-81	W-31	11	
02-10-81	W-32	12	
02-10-81	W-61	13	
02-10-81	W-75	14	
02-10-81	W-76	15	
02-10-81	15-B-2	16	
02-10-81	15-B-1	17	
02-10-81	W-33	18	

ORIGINAL COPY WHEN THIS IMPRINT IN RED (3)
 MPBL GG-1 (JB-1)
 SYSTEM LOCATION
 FEED MTR STEAM
 LOOP B TUNNEL
 LINE NO W THINS
 24" DBB-73 1531"
 24" DBB-141 1531" FM-0-2

151 DUE TO RECENT NOTE 25
 CAL STANDARD I.D NO 17



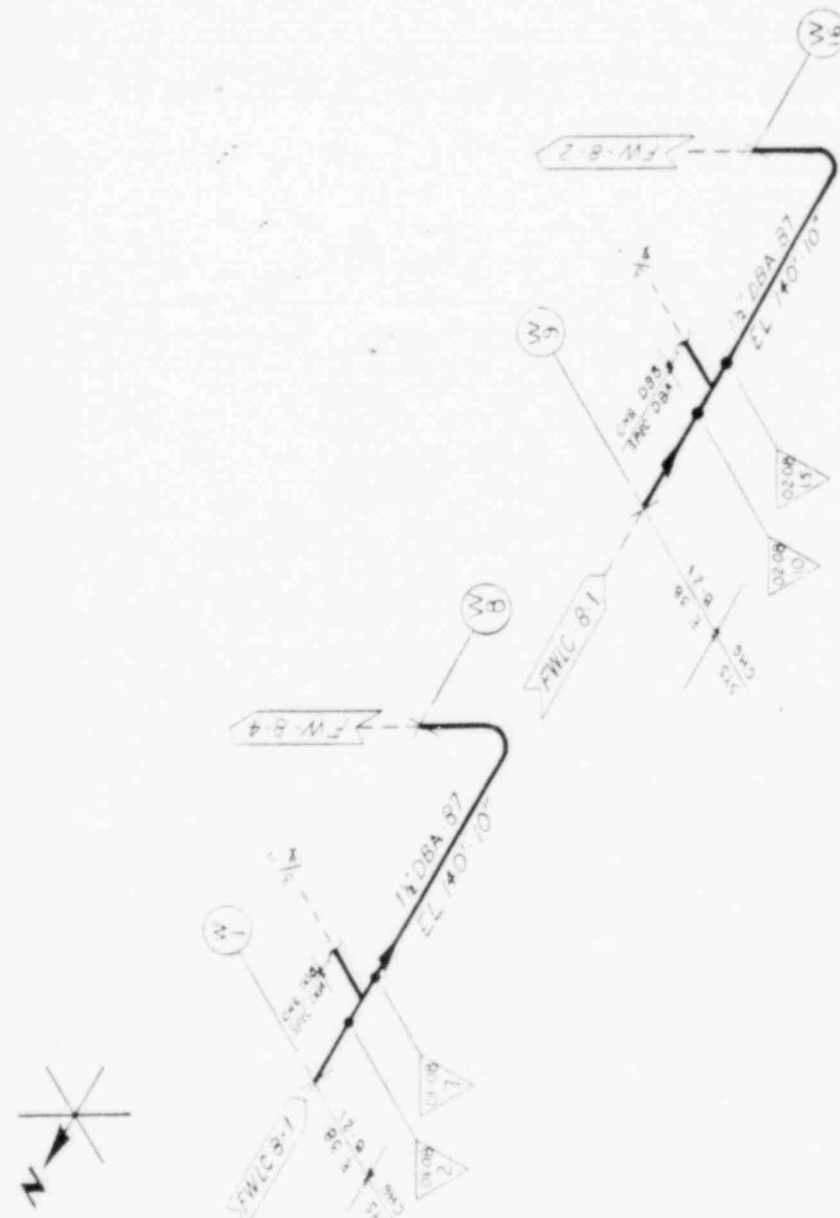
ORIGINAL COPY WHEN THIS MESSAGE IN RED: 3		MPBL GG-1 (JB-1)		DOWN 03-09-77	18SE NSO	DATE 7-1-78
SYSTEM	LOCATION	REP ISO	REP FIELD	DOWN HE	ATLANTA	REP
FEED WTR	STEAM	M-1328K	M-1077A	FW-B		UNIT
LOOP B	TUNNEL			PAGE 1081		4

MPBL	GG-1	(JB-1)
SYSTEMS FEED WTR LOOP B	LOCATION STEAM TUNNEL	REF ID M-1328K

CAL STANDARD I.D. NO. 11, 17, 136
ISI DUE TO BECHTEL NOTE 23

WPL NO	WELD	CODE	TYPE	EXAM	EXAM TIME	ACCESS	I.D.
18219230	DEV	CAT	EXAM	PERIOD	SATIS	MARK	COMPL
W 1	"G"	BJ	PT	PBT		YES	YES
01-08-2	"E"	BJ	PT	BECHTEL		YES	YES
01-08-7	"E"	BJ	PT	PBT		YES	YES
W 8	"E"	BJ	PT	PBT		YES	YES
W 9	"G"	BJ	PT	PBT		YES	YES
02-08-10	"E"	BJ	PT	BECHTEL		YES	YES
02-08-15	"E"	BJ	PT	BECHTEL		YES	YES
W 16	"E"	BJ	PT	PBT		YES	YES

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OR MAINTENANCE



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GENERAL ELECTRIC

PROJECT: MP&L GG-1 (JB-1)

MADE BY: R. DILL (02-23-81)

DATE: 02-23-81

LOCATION: AUX BLDG.

REP. DES: FW-B-254

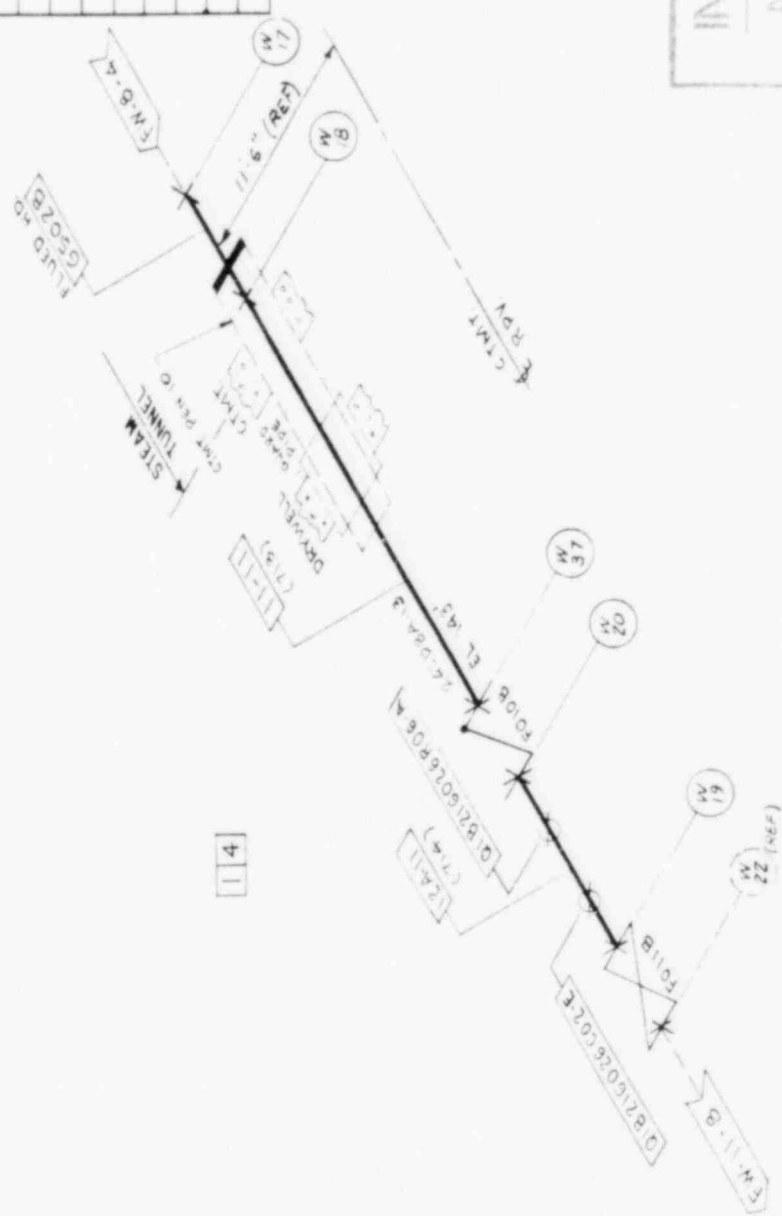
FW-B-058

ISSE-NSO ATLANTA

FW-B

PAGE 1 of 1

FW-0-2



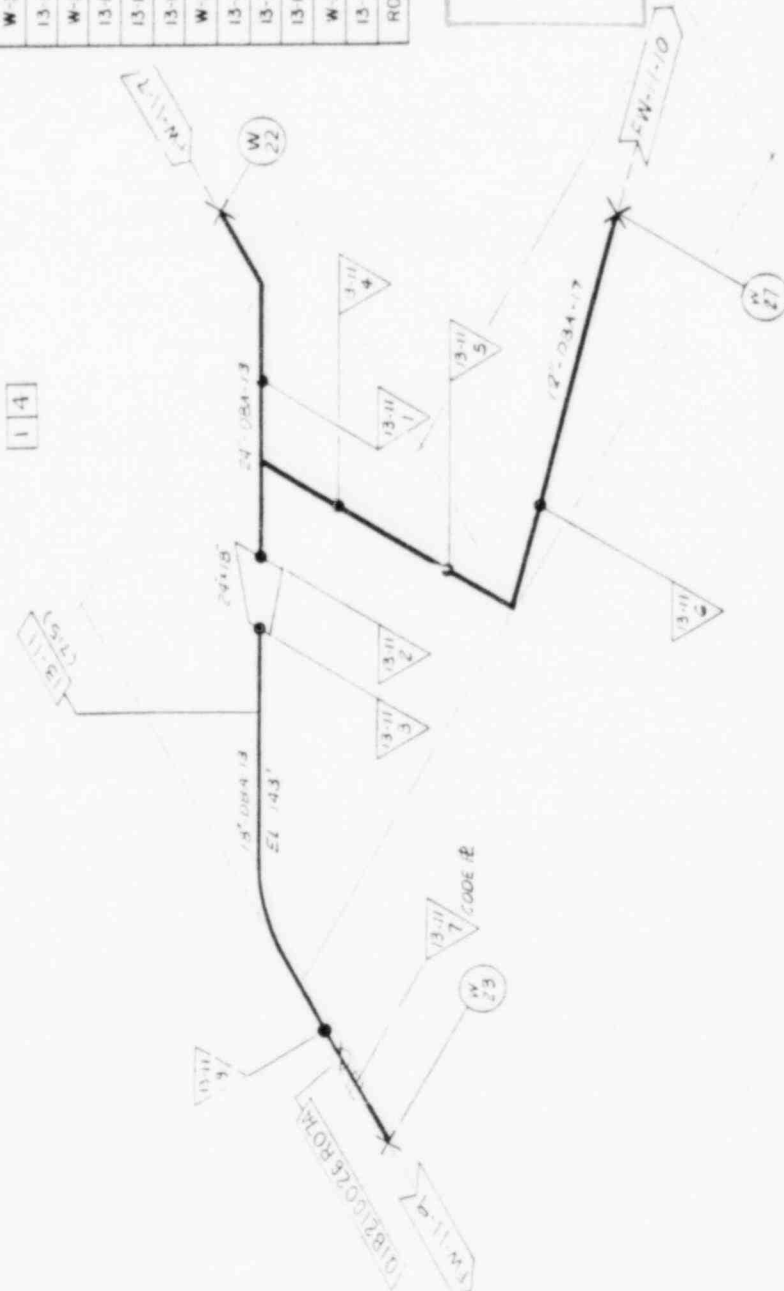
MPL NR 1821-0026	WELD DESCR	CODE CAT.	TYPE EXAM.	EXAM. TIME PERIOD	ACCESS SATIS	I.D. MARK COMP
W-17	"E"	BJ	UT	09-18-79		YES
W-18	"E"	BJ	UT	07-01-80		YES
W-37	"G"	BJ	UT	06-28-80		YES
W-20	"G"	BJ	UT	06-28-80		YES
W-19	"G"	BJ	UT	06-28-80		YES
W-17	"E"	BJ	PT	PBT		YES
W-18	"E"	BJ	PT	PBT		YES
W-37	"G"	BJ	PT	PBT		YES
W-20	"G"	BJ	MT	PBT		YES
W-19	"G"	BJ	MT	PBT		YES
R06 A	HANGER	BK 2	VT			N/A
C02-E	HANGER	BK 2	VT			N/A

[illegible]

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CAL STANDARD I D. NO. 11
NOTE. SPOOL PIECE 12A-11 FABRICATED FROM SPOOL Q2B21-G026-1-23

FW-0-2



WELD NO.	WELD DESCR.	CODE	TYPE	EXAM. PERIOD	ACCESS	MARK	COMP.
W-22	"J"	BJ	UT	08-08-80			YES
13-11-1	"J"	BJ	UT	09-18-79			YES
13-11-2	"J"	BJ	UT	09-18-79			YES
13-11-3	"C"	BJ	UT	07-17-79			YES
W-23	"E"	BJ	UT	08-08-80			YES
13-11-4	"C"	BJ	UT	07-16-79			YES
13-11-5	"C"	BJ	UT	05-09-80			YES
13-11-6	"C"	BJ	UT	05-09-80			YES
W-27	"J"	BJ	UT	08-08-80			YES
13-11-9	"J"	BJ	UT	05-18-81			YES
W-22	"J"	BJ	PT	PBT			YES
13-11-1	"J"	BJ	PT	TEXAS PIPE			YES
13-11-2	"J"	BJ	PT	TEXAS PIPE			YES
13-11-3	"C"	BJ	PT	TEXAS PIPE			YES
W-23	"E"	BJ	PT	PBT			YES
13-11-4	"C"	BJ	PT	TEXAS PIPE			YES
13-11-5	"C"	BJ	PT	TEXAS PIPE			YES
13-11-6	"C"	BJ	PT	TEXAS PIPE			YES
W-27	"J"	BJ	PT	PBT			YES
13-11-9	"J"	BJ	PT	TEXAS PIPE			YES
RO7A	HANGER	BK2	VT				N/A

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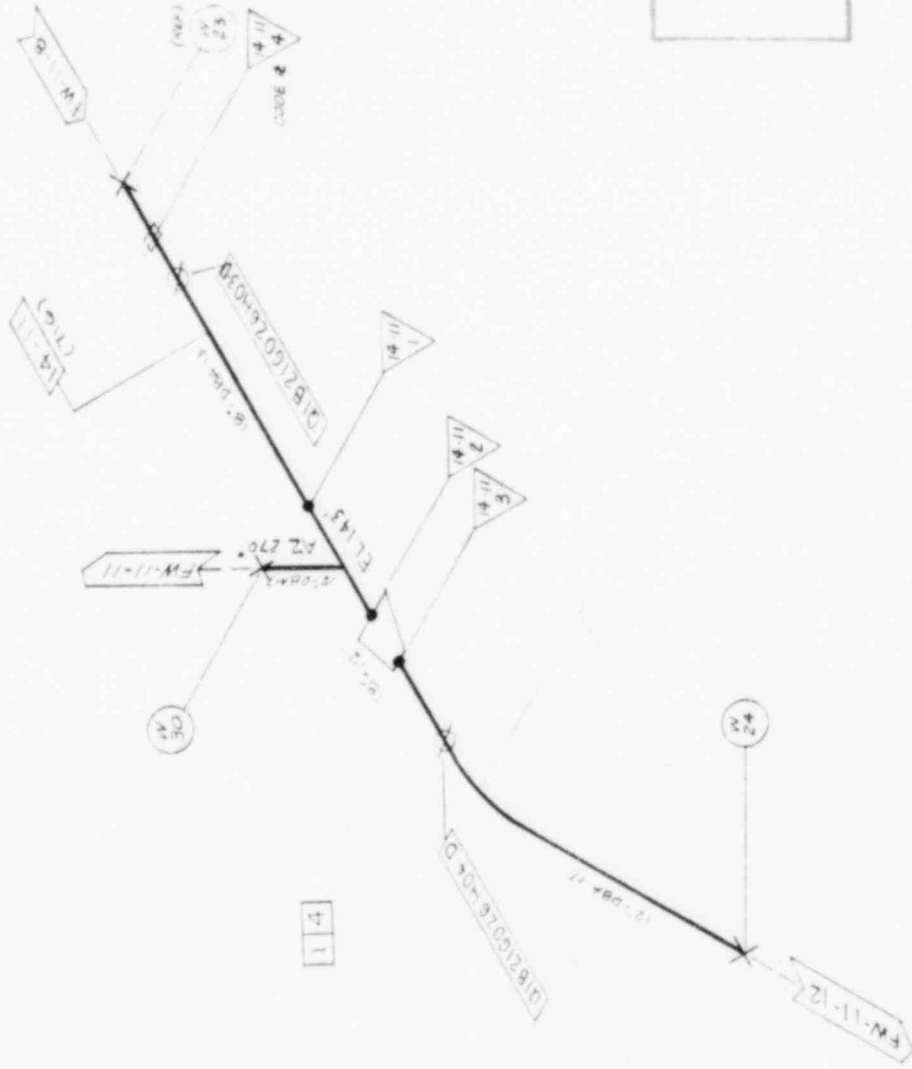
ORIGINAL COPY WHEN THIS IMPRINT IN RED

MP3L	GG-1	(JB-1)	DWG	02-25-77	BASE NSO
SYSTEM	AREA	REF. 150	S. GRAUS	ATLANTA	
FEED NTR	CTMT	M-1328J	M-1077A	DWG. NO.	
LOOP B			SK-M-1599	FW-11	
				PAGE 101	

CAL STANDARD ID NO. 6, 8, 11,

FW-0-2

MPL NR	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS MARK SAT'S COMP	I.D. MARK
1021-0026	"C"	BJ	UT	07-17-79		YES
W-30	"C"	BJ	UT	08-08-80		YES
14-11-2	"J"	BJ	UT	07-17-79		YES
14-11-3	"C"	BJ	UT	05-09-80		YES
W-24	"E"	BJ	UT	08-11-80		YES
14-11-1	"C"	BJ	PT	TEXAS PIPE		YES
W-30	"C"	BJ	MT	PBT		YES
14-11-2	"J"	BJ	PT	TEXAS PIPE		YES
14-11-3	"C"	BJ	PT	TEXAS PIPE		YES
W-24	"E"	BJ	MT	PBT		YES
H03-D	HANGER BK2	BK2	VT			N/A
H04-D	HANGER BK2	BK2	VT			N/A



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NO. 1	GG-1	(JB-1)	DOWN S GRAUS	IBSE NSO ATLANTA	DATE FW-11	PAGE 1 of 1
SYSTEM FEED WTR LOOP B	LOCATION CTMT	REP M-1328J	REP PAID M-1077A	DATE FW-11	DATE FW-11	DATE FW-11



WELD NO.	WELD DESCR.	CODE CAT.	TYPE EXAM.	EXAM. TIME PERIOD	ACCESS SATIS.	I.D. MARK COMP.
W-25	"C"	BJ	UT	08-07-80		YES
W-26	"C"	BJ	UT	08-07-80		YES
W-27	"D"	BJ	UT	08-14-80		YES
W-28	"C"	BJ	PT	PBT		YES
W-29	"C"	BJ	PT	TEXAS PIPE		YES
W-30	"D"	BJ	PT	PBT		YES
W-31	HANGER	BK2	VT			N/A

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ORIGINAL COPY WHEN THIS DRAWING IS REED 3

MPBL	GG-1	(JB-1)	DWN	03-10-7	IBSE NSO	ATLANTA	SWT
SYSTEM	FEED WTR	LOCATION	REP. PAID	REP. PAID	DWS. N#	FW-11	PAGE 1 of 1
LOOP B	CTMT.	M-1328J	M-1077A	SK-M-1599			

CAL STANDARD I.D. NO. 6
* G.E.-BECHTEL INTERFACE WELD

FW-0-2

MS - MAIN STEAM SYSTEM - B21

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3

DRAWING

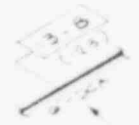
SYMBOLS

LETTER

SYMBOLS

PIPING SYSTEMS

WELDING CONFIGURATION



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



LINE SIZE &
SPECIFICATION
DESIGNATION

SHOP WELD
I.D. NO.



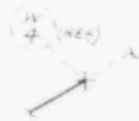
FIELD WELD
I.D. NO.



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
(HOL, SOL, etc.)



PLUGGED STUB-IN



WELD CAP



SCREWED CAP



PLAIN END



VENDOR CODE TAG
& SHOP WELD NO.



PENETRATION
SLEEVE



PENETRATION
SLEEVE W/ FLUO
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

CH - CHILLED WATER

CS - COND/RW STORAGE & TRANSFER

CU - REACTOR WATER CLEANUP

CO - COMP COOLING WATER

DG - DIESEL GENERATOR

DR - FLOOR & EQUIPMENT DRAINS

DW - DOMESTIC WATER

EC - FUEL POOL COOLING & CLEANUP

ED - FILTER/DEMIN (FPCOU)

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 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

ABBREVIATIONS

HANGERS

AUX - AUXILIARY

BLOG - BUILDING

CL - CENTERLINE

CL - CLASS

COMP - COMPLETE or COMPONENT

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 or NOZZLE

PEN - PENETRATION

REV - REVISION

RPV - REACTOR VESSEL

RX - REACTOR

SCH - SCHEDULE

SHT - SHEET

SOL - SOCKLET

STD - STANDARD

STM - STEAM

TOL - THREADED

TURB - TURBINE

WOL - WELDOLET

A - SNUBBER

B - RIGID STRUT

C - BOX OR GUIDE

D - SPRING

E - COMBINATION

F - ANCHOR

PWR

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SCALE NONE

JOB NO JB-1

CONTRACT NO 360N74002

MADE FOR MISSISSIPPI

POWER & LIGHT

TITLE

LEGEND FOR
ISI ISOMETRIC
DRAWINGS

PROJECT
GRAND GULF
NUCLEAR PLANT

GENERAL ELECTRIC

NUCLEAR SERVICE OPERATION

INSTALLATION & SERVICE ENGINEERING DIV
ATLANTA GEORGIA

DRAWING NO 35IN79B0006

SHEET NO 1 OF 3

REV A

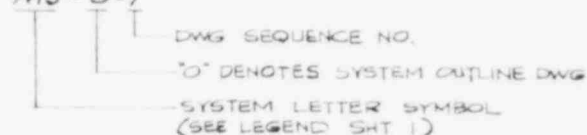
ISI EXAMINATION REQUIREMENTS

- 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 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.

DWG. NUMBERING SYSTEM

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

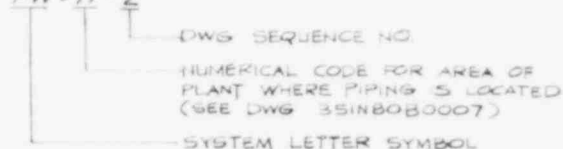
EXAMPLE: MS-O-1



II. WELD IDENTIFICATION DWGS (ISOMETRICS)

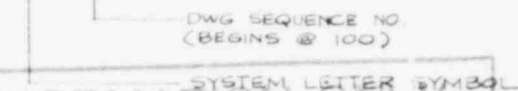
A. ASME CLASS 1 & 2 SYSTEMS

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. 500N74002	MADE FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	
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 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

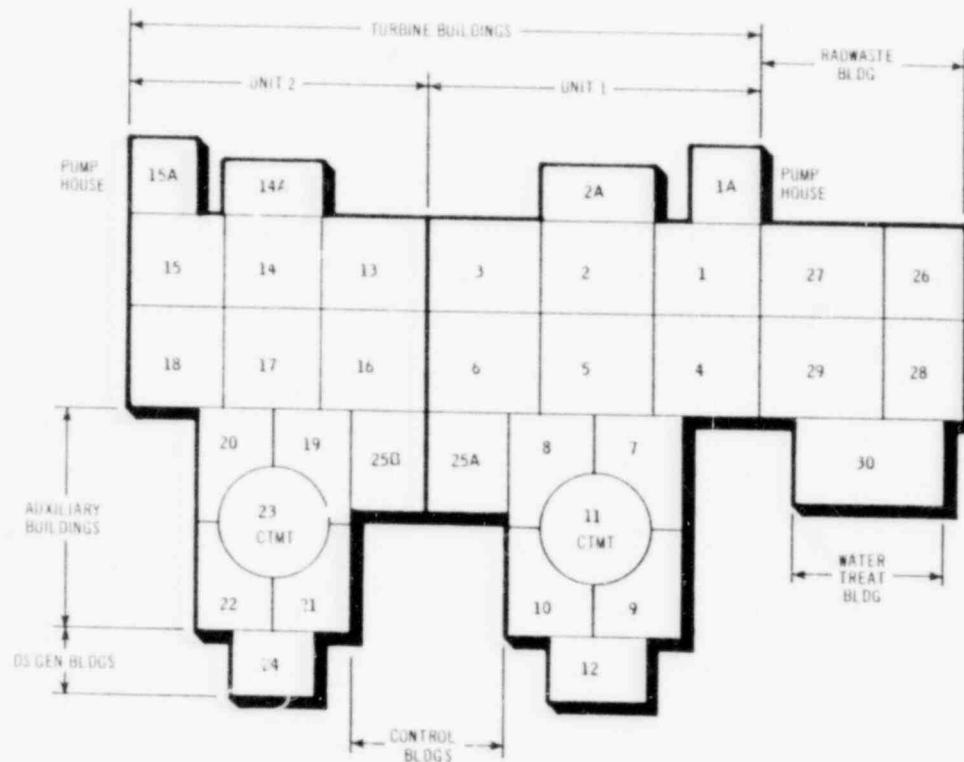
A NUCLEAR POWER PLANT COMPONENTS
 ASME BBPV CODE, SECTION III, CLASS I
 B NUCLEAR POWER PLANT COMPONENTS
 ASME BBPV CODE, SECTION III, CLASS 2
 C NUCLEAR POWER PLANT COMPONENTS
 ASME BBPV CODE, SECTION III, CLASS 3
 D POWER PIPING CODE, ANSI B31.1
 F NATIONAL FIRE PROTECTION ASSOCIATION CODE
 G SOUTHERN 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-LISTING ARE
 NOT REQUIRED.

INFORMATION ONLY

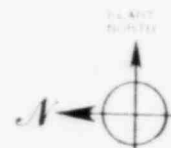
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SCALE NONE	JOB NO. JB-1	TITLE LETTER CODE FOR PIPING		GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA	
CONTRACT NO. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT		DRAWING NO. 351N79B0006	REV. A
MADE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

INDEX TO ISOS FOR B-2I SYSTEM- MAIN STEAM

		REV
COMPOSITE:	MS-0-1	A
ISOS:	MS-8-1	A
	MS-8-3	A
	MS-8-5	A
	MS-8-6	A
	MS-II-1	A
	MS-II-2	A
	MS-II-3	A
	MS-II-7	A
	MS-II-8	A
	MS-II-9	A
	MS-II-13	A
	MS-II-14	A

		REV
COMPOSITE:	MS-0-2	A
ISOS:	MS-8-2	A
	MS-8-4	A
	MS-8-7	A
	MS-8-8	A
	MS-II-4	A
	MS-II-5	A
	MS-II-6	A
	MS-II-10	A
	MS-II-11	A
	MS-II-12	A

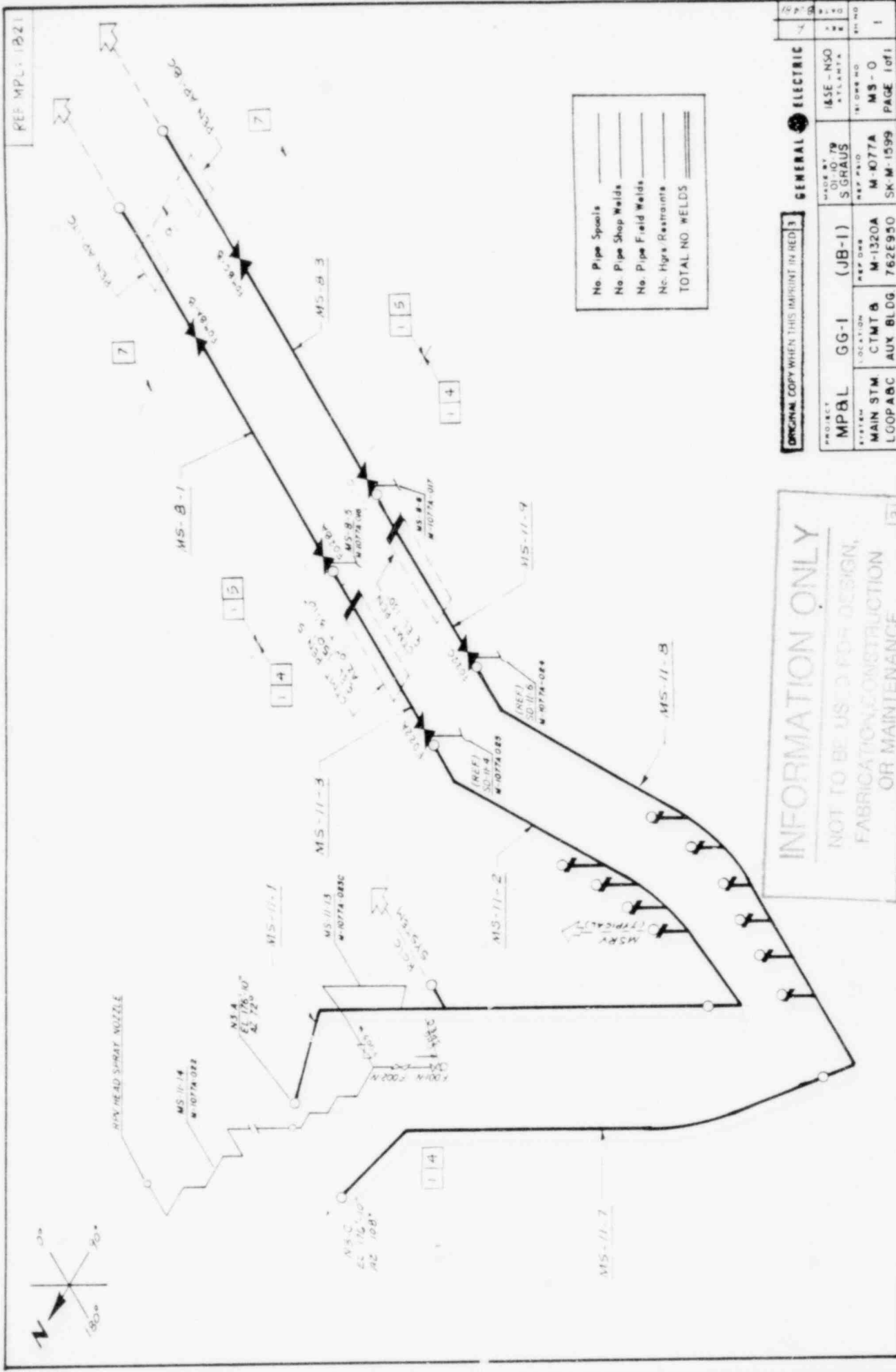
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REV	A
DATE	11-2-81



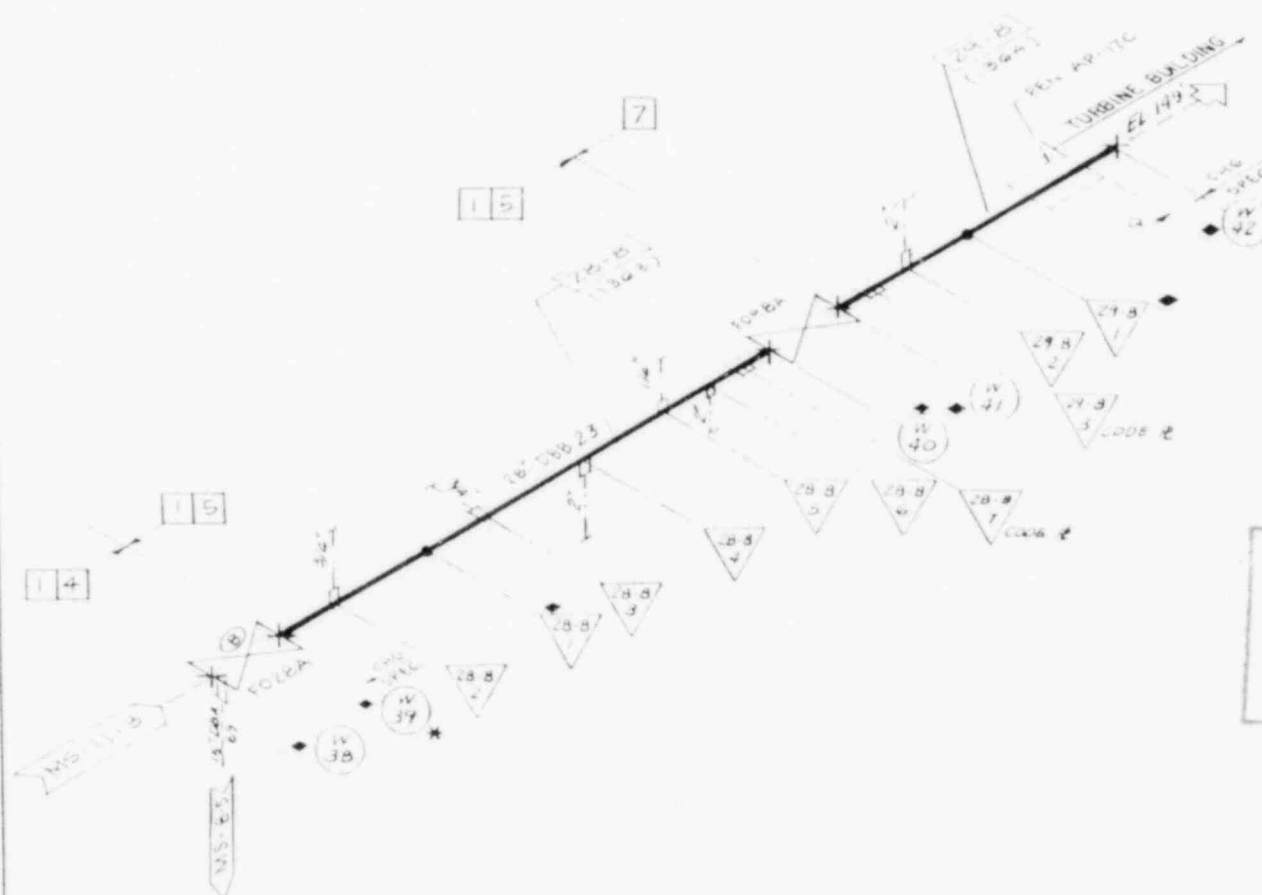
REF MPL: 1B21

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

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PROJECT		GENERAL		ELECTRIC	
MPBL	GG-1	(JB-1)	MADE BY	ISSUE	NSO
MAIN STM	CTMT &	M-1320A	SGRAUS	ATLANTA	2
LGOP ABC	AUX BLDG	762E950	REP PLO	M-1077A	MS-0
			SK-M-1599	SK-M-1599	PAGE 1 of 1

FLOOR ELEV 140'
MAIN STEAM TUNNEL



MPL NR (BET GOS)	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMP
W 38	"G"	BJ	UT	09-26-79		YES
W 39	"G"	CF	UT	09-18-79		YES
28-B-1	"E"	CF	UT	09-18-79		YES
W 40	"G"	CF	UT	09-17-79		YES
W 41	"G"	CF	UT	09-27-79		YES
29-B-1	"E"	CF	UT	10-03-79		YES
W 42	"E"	CF	UT	09-14-79		YES
VALVE V028A	BOLTS(20)	C-D	UT	03-20-81		YES
W 38	"G"	BJ	PT	PBT		YES
W 39	"G"	CF	MT	03-11-81		YES
28-B-1	"E"	CF	MT	03-11-81		YES
W 40	"G"	CF	MT	03-11-81		YES
W 41	"G"	CF	PT	03-11-81		YES
29-B-1	"E"	CF	MT	03-11-81		YES
W 42	"E"	CF	MT	03-11-81		YES

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OR MAINTENANCE

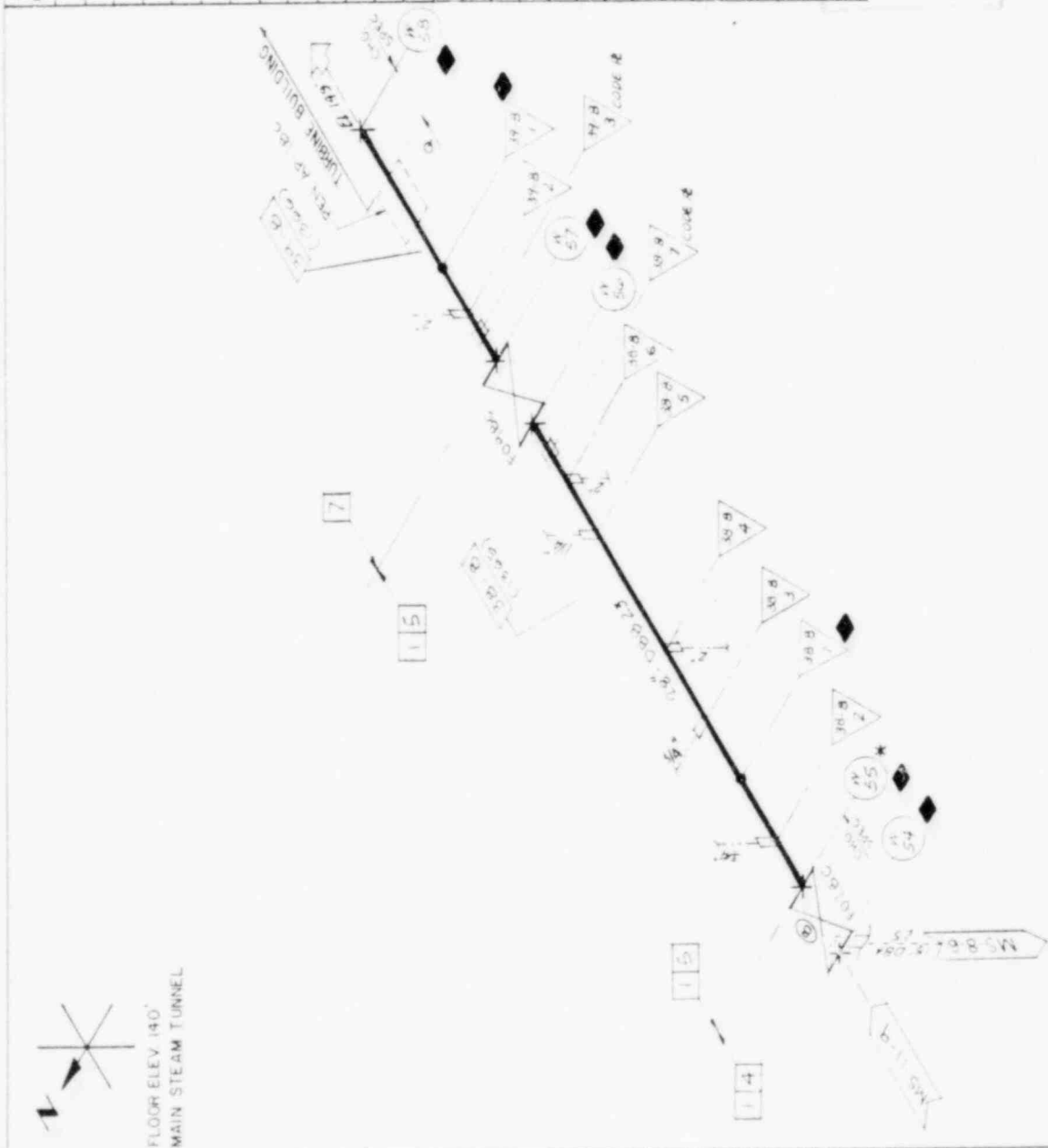
ORIGINAL COPY WHEN THIS IMPRINT IN RED

CAL STANDARD D. NO. 29, 19
* G.E.-BECHTEL INTERFACE WELD

LINE NO. W THKNS
28" DBB-23 110"

MS-0-1

MP&L	GG-1	(JB-1)	DWN 04-01-77 S. GRAUS	IBSE NSO ATLANTA	REV DATE
SYSTEM MAIN STM LOOPA	LOCATION AUX BLDG	REP. ISO M-1320A	REP. P&ID M-1077A	DWG. NO MS-8	SHIT 1
			SK-M-1599	PAGE 1 of 1	



MPL NR (B21-605)	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMP
W-54	"G"	BJ	UT	09-26-79		YES
W-55	"G"	CF	UT	09-19-79		YES
38-8-1	"E"	CF	UT	09-19-79		YES
W-56	"G"	CF	UT	09-25-79		YES
W-57	"G"	CF	UT	09-25-79		YES
39-8-1	"E"	CF	UT	10-03-79		YES
W-58	"E"	CF	UT	09-14-79		YES
BOXES(20)	"G"	CD	UT	03-20-81		YES
W-54	"G"	BJ	PT	PBT		YES
W-55	"G"	CF	MT	03-11-81		YES
38-8-1	"E"	CF	MT	03-11-81		YES
W-56	"G"	CF	MT	03-11-81		YES
W-57	"G"	CF	MT	03-11-81		YES
39-8-1	"E"	CF	MT	03-11-81		YES
W-58	"E"	CF	MT	03-11-81		YES

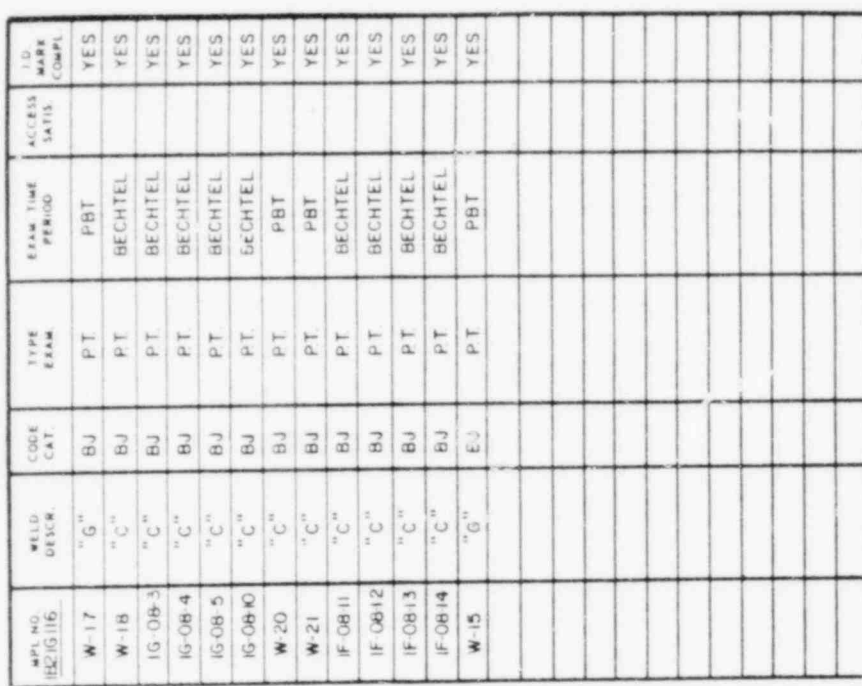
ORIGINAL COPY WHEN THIS IMPRINT IN RED

MP&L	GG-1	(JB-1)	DOWN	04-04-79	IBSE NSO
SYSTEM	LOCATION	REP ISO	5 GRAUS	ATLANTA	
MAN STM	AUX BLDG	REP P&ID	M-1077A	MS-8	
LOOP C		SR M-153		PAGE 10/1	

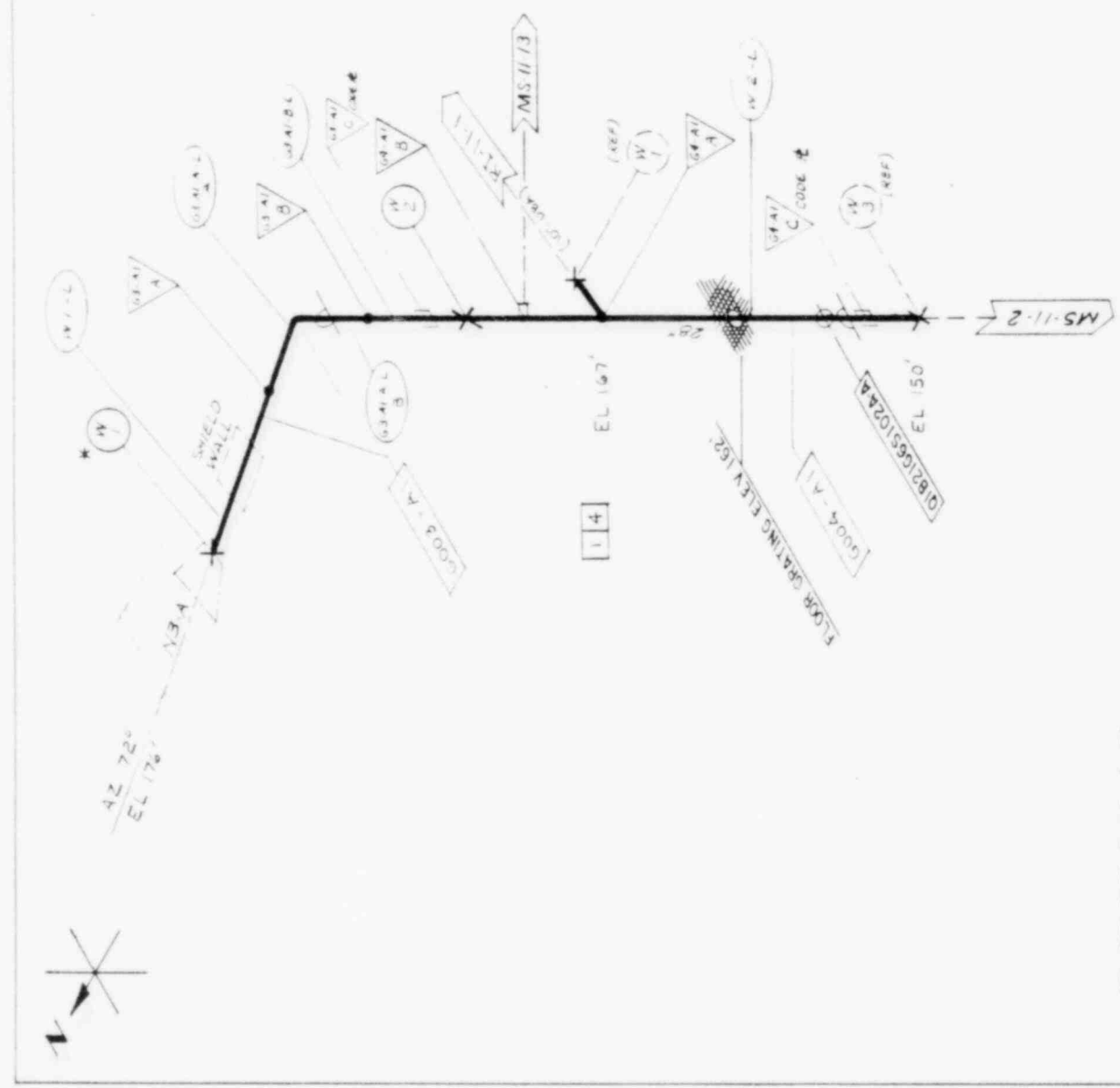
LINE NO WTHKNS
28" DBB-23 1.10"

CAL STANDARD NO. 19,29
* G.E. BECHTEL INTERFACE WELD

MS-0-1



ORIGINAL COPY WHEN THIS MATERIAL IS USED		GENERAL		ELECTRIC		157 827 25
PROJECT	MP8L	GG 1	(JB-1)	MADE BY GG-1 (B) R DILL	IASE - NSO ATLANTA	BLVD
SYSTEM	MAIN STM	LOCAT IN		REF NO	MS - B PAGE 1 of 1	5
LOOP A		AUX BLDG		M-1077A		



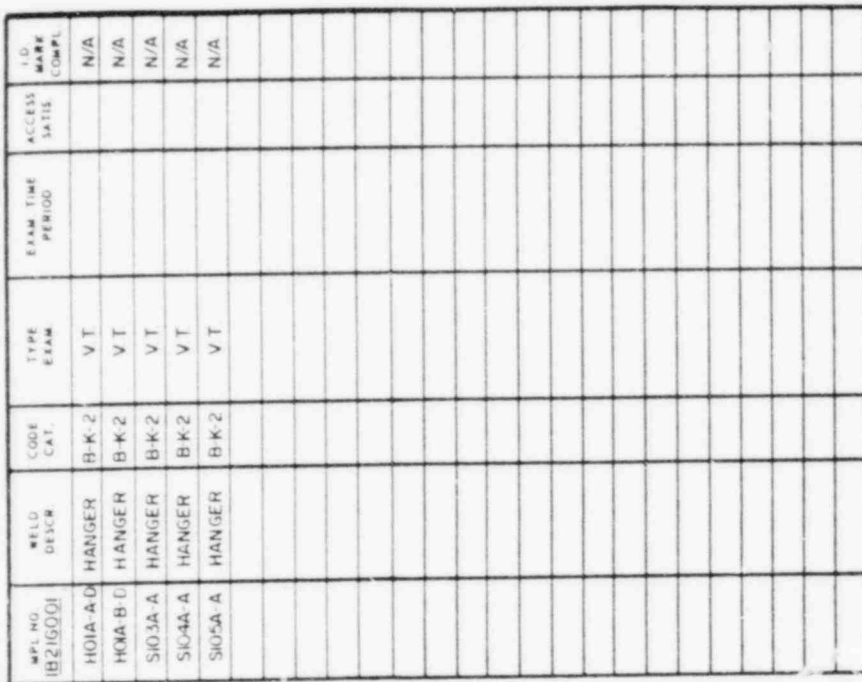
MPL N°	WELD	CODE	TYPE	EXAM	EXAM TIME	ACCESS	ID
IB210001	DESCR.	CAT.	EXAM		PERIOD	SATIS	MARK
W-1	"D"	BJ	UT		08-02-80		YES
W-1-L	"A"	BJ	UT		07-23-80		YES
G3-A1-A	"C"	BJ	UT		07-23-80		YES
G3-A1-A-LA	"A"	BJ	UT		07-23-80		YES
G3-A1-B	"C"	BJ	UT		07-24-80		YES
G3-A1-B-L	"A"	BJ	UT		07-23-80		YES
W-2	"E"	BJ	UT		07-24-80		YES
G3-A1-A-LB	"A"	BJ	UT		07-23-80		YES
G4-A1-A	"N"	BJ	UT		08-02-80		YES
W-2-L	"A"	BJ	UT		07-24-80		YES
W-1	"D"	BJ	MT		PBT		YES
W-1-L	"A"	BJ	MT		01-27-81		YES
G3-A1-A	"C"	BJ	PT		APBE		YES
G3-A1-A-LA	"A"	BJ	PT		APBE		YES
G3-A1-B	"C"	BJ	PT		APBE		YES
G3-A1-B-L	"A"	BJ	MT		01-27-81		YES
W-2	"E"	BJ	MT		PBT		YES
G3-A1-A-LB	"A"	BJ	PT		APBE		YES
G4-A1-A	"N"	BJ	PT		APBE		YES
W-2-L	"A"	BJ	MT		01-28-81		YES
G4-A1-B	"C"	BJ	PT		APBE		YES
SI02A-A	HANGER	B-K-2	VT				N/A
					</		

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OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED						
MPBL		GG-1		(JB-1)		DWN
SYSTEM		LOCATION		REF TO DWD		S GRAUS
MAIN STM		CTMT		762E950		03-25-77
LOOP A						IBSE NSO
						ATLANTA
						DWLS NE
						MS-11
						PAGE 1 of 1
						REV
						DATE
						24

CAL STANDARD D. NO. 19, 20
* G E - BECHTEL INTERFACIAL WELD

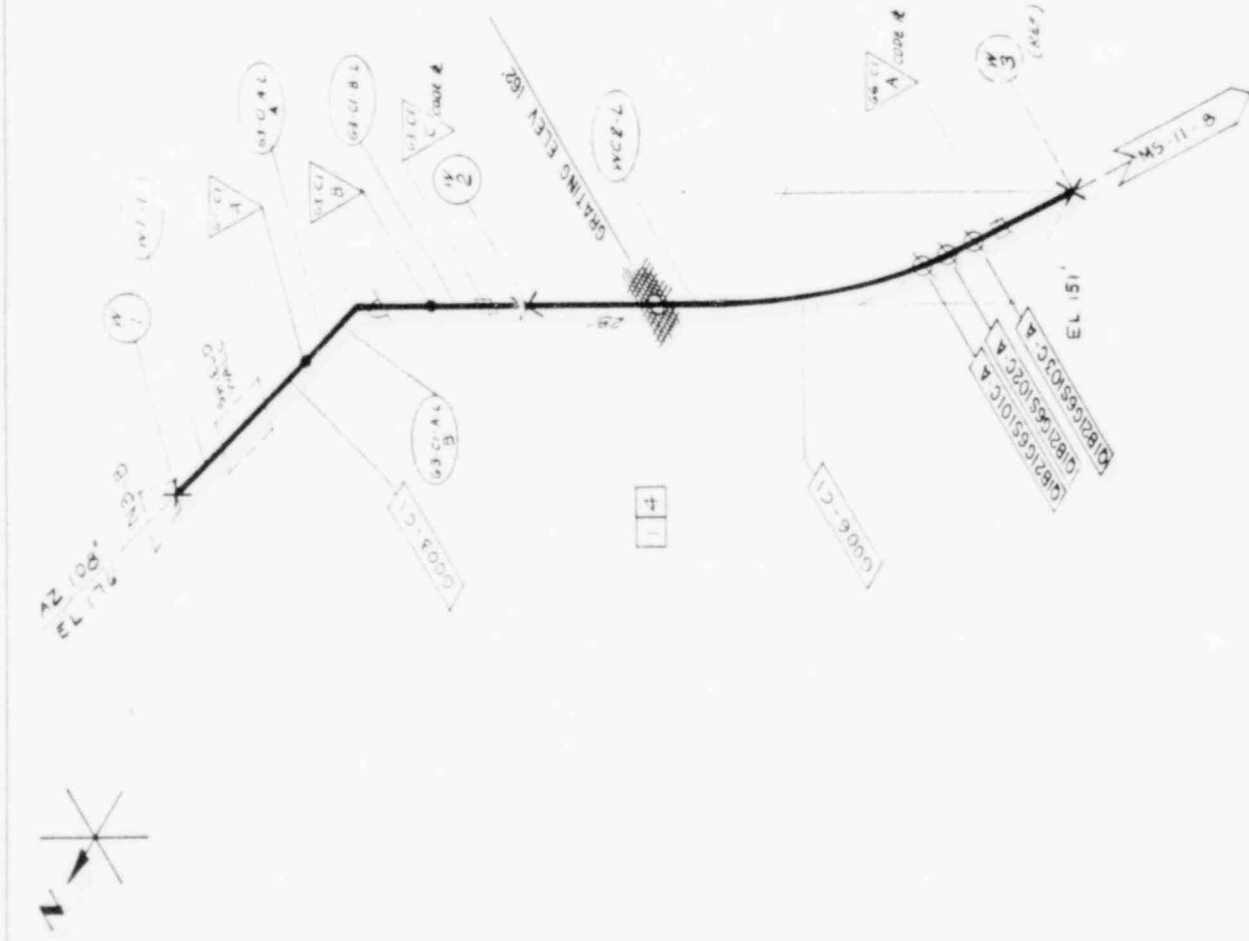
MS-0-1



GENERAL ELECTRIC

MADE BY 08-12-81 R DILL	145E - NSO ATLANTA
REF NO: M-1077A SK-M-1599	ISSUES NO: MS - 11 PAGE 2 of 2

2



MPL NR	WELD	CODE	TYPE	EXAM TIME	ACCESS	ID
1821-G001	DESCR	CAT	EXAM	PERIOD	SATIS	MARK
W-1	"D"	BJ	UT	08-02-80		YES
W-1-L	"A"	BJ	UT	07-25-80		YES
G3-C1-A	"C"	BJ	UT	07-25-80		YES
G3-C1-A-L	"A"	BJ	UT	07-25-80		YES
G3-C1-A-L-B	"A"	BJ	UT	07-26-80		YES
G3-C1-B	"C"	BJ	UT	07-26-80		YES
G3-C1-B-L	"A"	BJ	UT	07-26-80		YES
W-2	"E"	BJ	UT	07-30-80		YES
W-2-L	"A"	BJ	UT	07-30-80		YES
W-1	"D"	BJ	MT	PBT		YES
W-1-L	"A"	BJ	MT	01-27-81		YES
G3-C1-A	"C"	BJ	PT	APBE		YES
G3-C1-A-L	"A"	BJ	PT	APBE		YES
G3-C1-A-L-B	"A"	BJ	PT	APBE		YES
G3-C1-B	"C"	BJ	PT	APBE		YES
G3-C1-B-L	"A"	BJ	MT	01-27-81		YES
W-2	"E"	BJ	MT	PBT		YES
W-2-L	"A"	BJ	MT	02-02-81		YES
S101CA	HANGER	B-K-2	VT			N/A
S102CA	HANGER	B-K-2	VT			N/A
S103CA	HANGER	B-K-2	VT			N/A

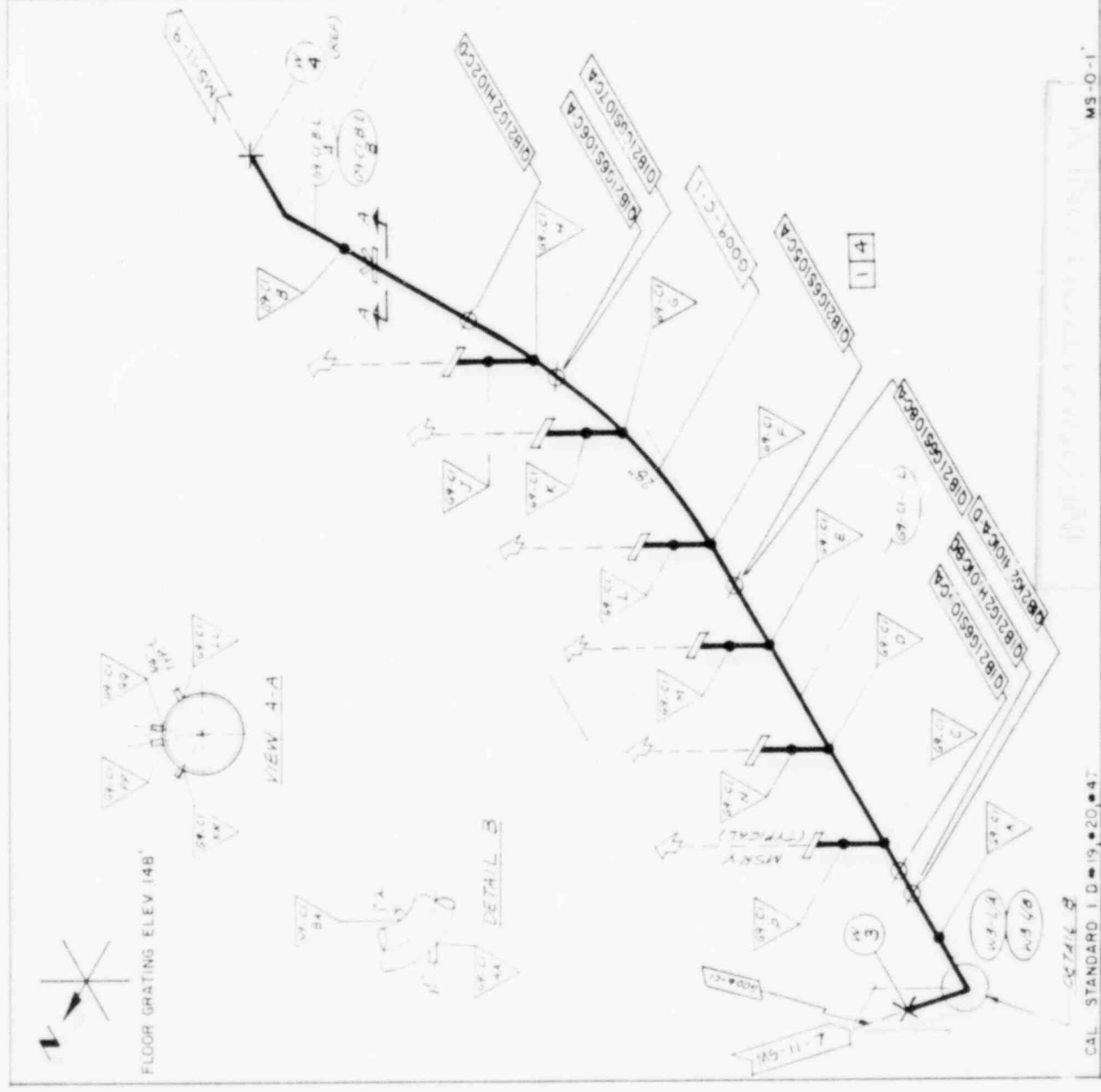
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 OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED

MPBL	GG-1	(JB-1)	S GRAUS	13 SE NSO
SYSTEM	LOCATION	REP	FILED	DATE
MAIN STEAM	CTMT	762E950	M-1077A	MS-II
LOOP C			SK-M-1599	PAGE 10 of 1

MPBL NR	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	ID MARK COMP
1B21G001	"C"	BJ	UT	08-06-80		YES
W3	"A"	BJ	UT	07-26-80		YES
W3 L/A	"A"	BJ	UT	07-26-80		YES
W3 L/B	"C"	BJ	UT	07-26-80		YES
G9-CI-A	"N"	BJ	UT	07-26-80		YES
G9-CI-C	"C"	BJ	UT	08-05-80		YES
G9-CI-P	"N"	BJ	UT	07-26-80		YES
G9-CI-D	"C"	BJ	UT	07-26-80		YES
G9-QH-N	"C"	BJ	UT	08-05-80		YES
G9-CI-E	"N"	BJ	UT	07-26-80		YES
G9-CI-M	"C"	BJ	UT	08-05-80		YES
G9-CI-F	"N"	BJ	UT	07-26-80		YES
G9-CI-L	"C"	BJ	UT	08-05-80		YES
G9-CI-G	"N"	BJ	UT	07-26-80		YES
G9-CI-K	"C"	BJ	UT	08-05-80		YES
G9-CI-H	"N"	BJ	UT	07-26-80		YES
G9-CI-J	"C"	BJ	UT	08-05-80		YES
G9-CI-B	"C"	BJ	UT	08-06-80		YES
G9-QH-LA	"A"	BJ	UT	07-26-80		YES
G9-QH-LB	"A"	BJ	UT	07-26-80		YES
G9-QH-L	"A"	BJ	UT	08-06-80		YES
W3	"C"	BJ	MT	PBT		YES
W3 L/A	"A"	BJ	PT	APBE		YES
W3 L/B	"A"	BJ	PT	APBE		YES
G9-CI-A	"C"	BJ	PT	APBE		YES
G9-CI-C	"N"	BJ	PT	APBE		YES
G9-CI-P	"C"	BJ	PT	APBE		YES
G9-CI-D	"N"	BJ	PT	APBE		YES
G9-CI-L	"C"	BJ	PT	APBE		YES
G9-CI-M	"C"	BJ	PT	APBE		YES
G9-CI-F	"N"	BJ	PT	APBE		YES
G9-CI-L	"C"	BJ	PT	APBE		YES

MPBL	GG-I	(JB-I)	IBSE NSO	ATLANTA	8
SYSTEM	LOCATION	REP GR DWS	REP PLD	DWS NS	8
MAIN STEAM	CTMT	762E950	M-1077A	MS-II	8
LOOP C			SK-M 1599	PAGE 1 of 2	

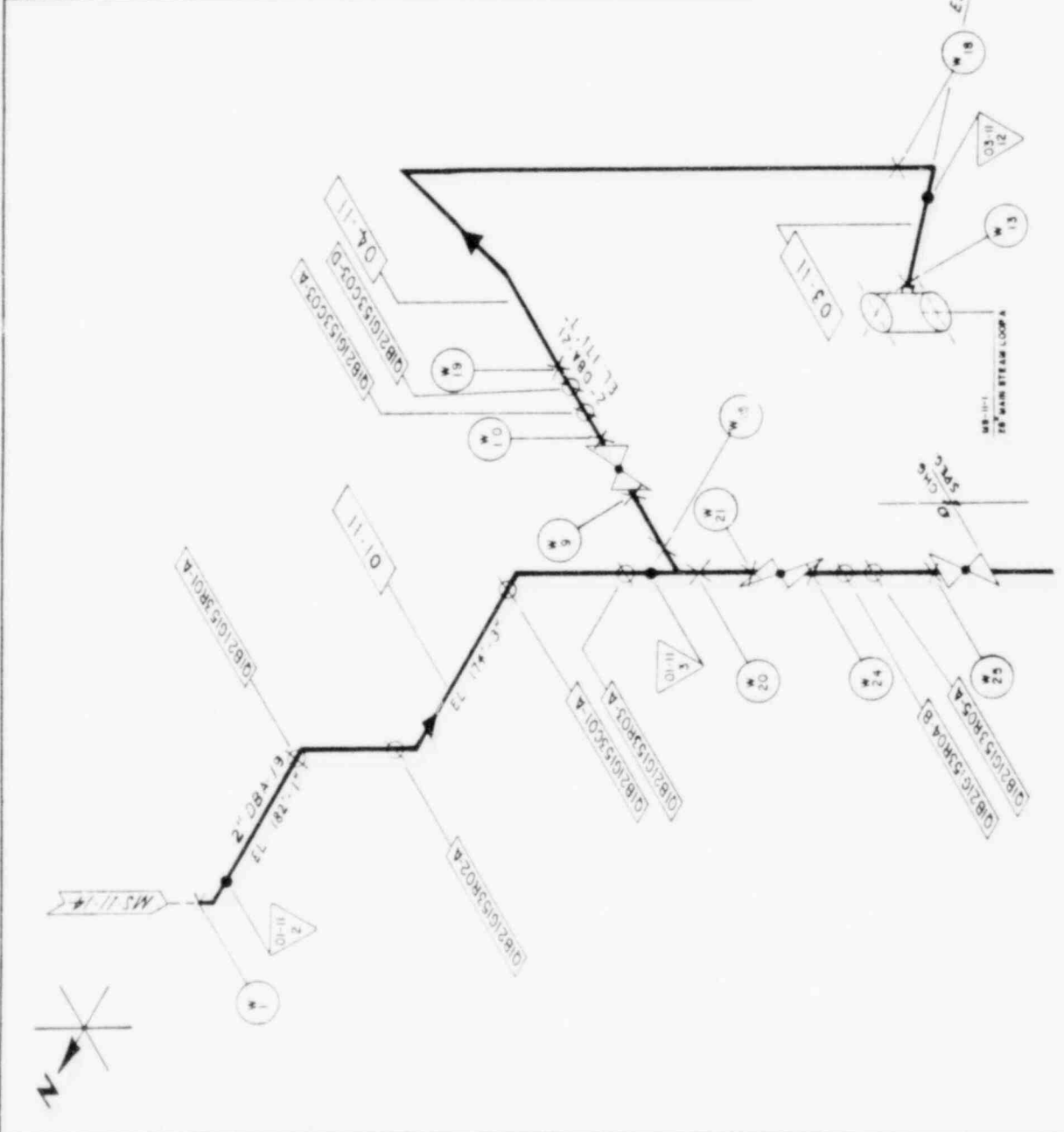


ORIGINAL COPY WHEN THIS IMPRINT IN RED		DOWNS		IBSE NSO	DATE	TIME
MP8L	GG-1	(JB-1)	S GRAUS	ATLANTA	7/27	3:00
SYSTEM	LOCATION	REF #	REF PAID	DOWNS	DATE	TIME
MAIN STEAM	CTMT		M-1077A	MS-11	9	3:17
LOOP C			SK-M-1599	PAGE 1 of 1		

WELD NO. ID: 0153	WELD DESIG.	CODE CAT.	TYPE EXAM.	EXAM TIME PERIOD	ACCESS SATIS.	I.D. MARK COMPL.
W-1	"C"	BJ	PT	PBT		YES
01-11-2	"C"	BJ	PT	PBT		YES
01-11-3	"C"	BJ	PT	PBT		YES
W-20	"C"	BJ	PT	PBT		YES
W-21	"G"	BJ	PT	PBT		YES
W-24	"G"	BJ	PT	PBT		YES
W-25	"G"	BJ	PT	PBT		YES
W-15	"C"	BJ	PT	PBT		YES
W-9	"G"	BJ	PT	PBT		YES
W-10	"G"	BJ	PT	PBT		YES
W-19	"E"	BJ	PT	PBT		YES
W-18	"C"	BJ	PT	PBT		YES
03-11-12	"C"	BJ	PT	PBT		YES
W-13	"C"	BJ	PT	PBT		YES
RO1-A	HANGER	BK-2	VT			N/A
RO2-A	HANGER	BK-2	VT			N/A
CO1-A	HANGER	BK-2	VT			N/A
RO3-A	HANGER	BK-2	VT			N/A
CO3-A	HANGER	BK-2	VT			N/A
RO4-B	HANGER	BK-2	VT			N/A
RO5-A	HANGER	BK-2	VT			N/A

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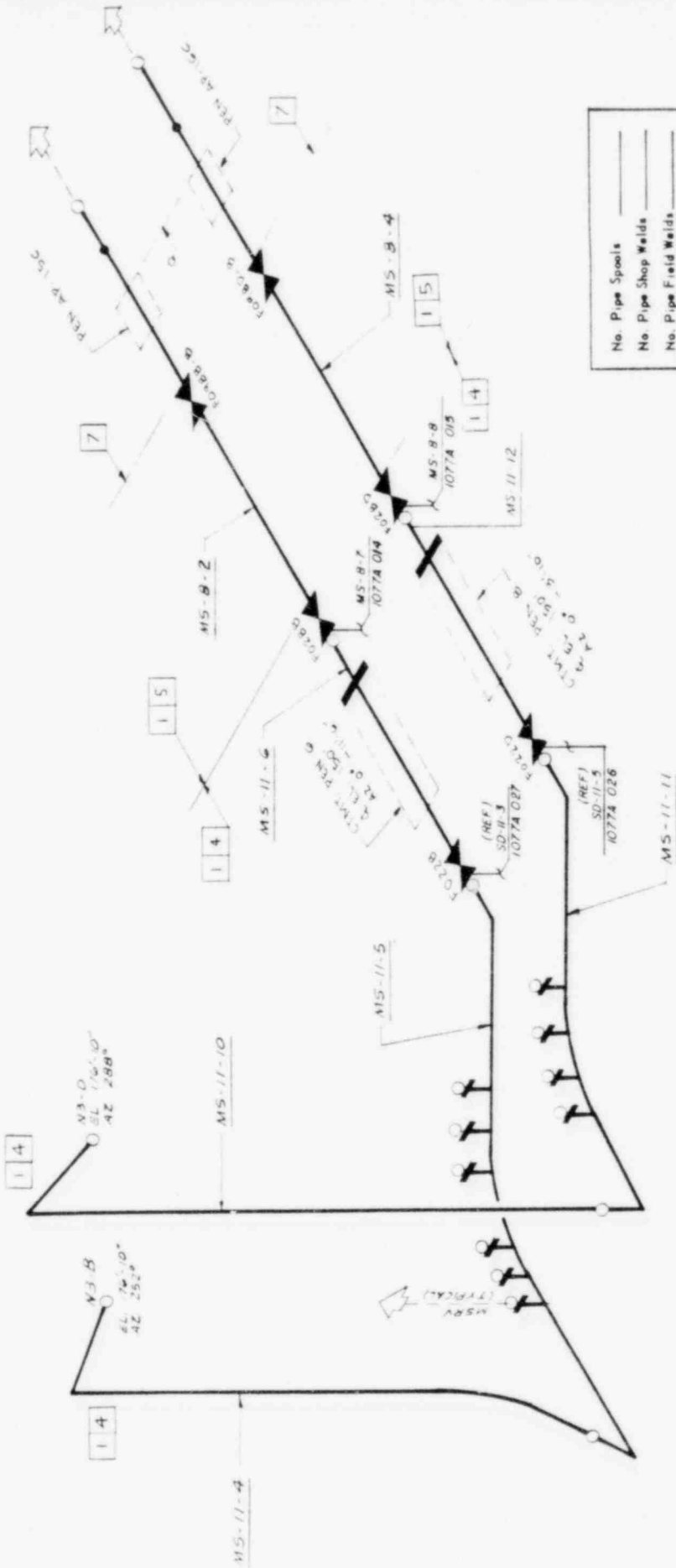
ORIGINAL COPY WHEN THIS IMPRINT IN RED



PROJECT	MPBL	GG-1 (JB-1)	GENERAL	ELECTRIC
SYSTEM	STEAM DRUM	LOCATION	WELD	DRILL
LOOP A	CTMT	MS-11	03-26	03-26
		MS-11	MS-11	MS-11
		MS-11	MS-11	MS-11

MS-0-1

REF MPL: 1B21



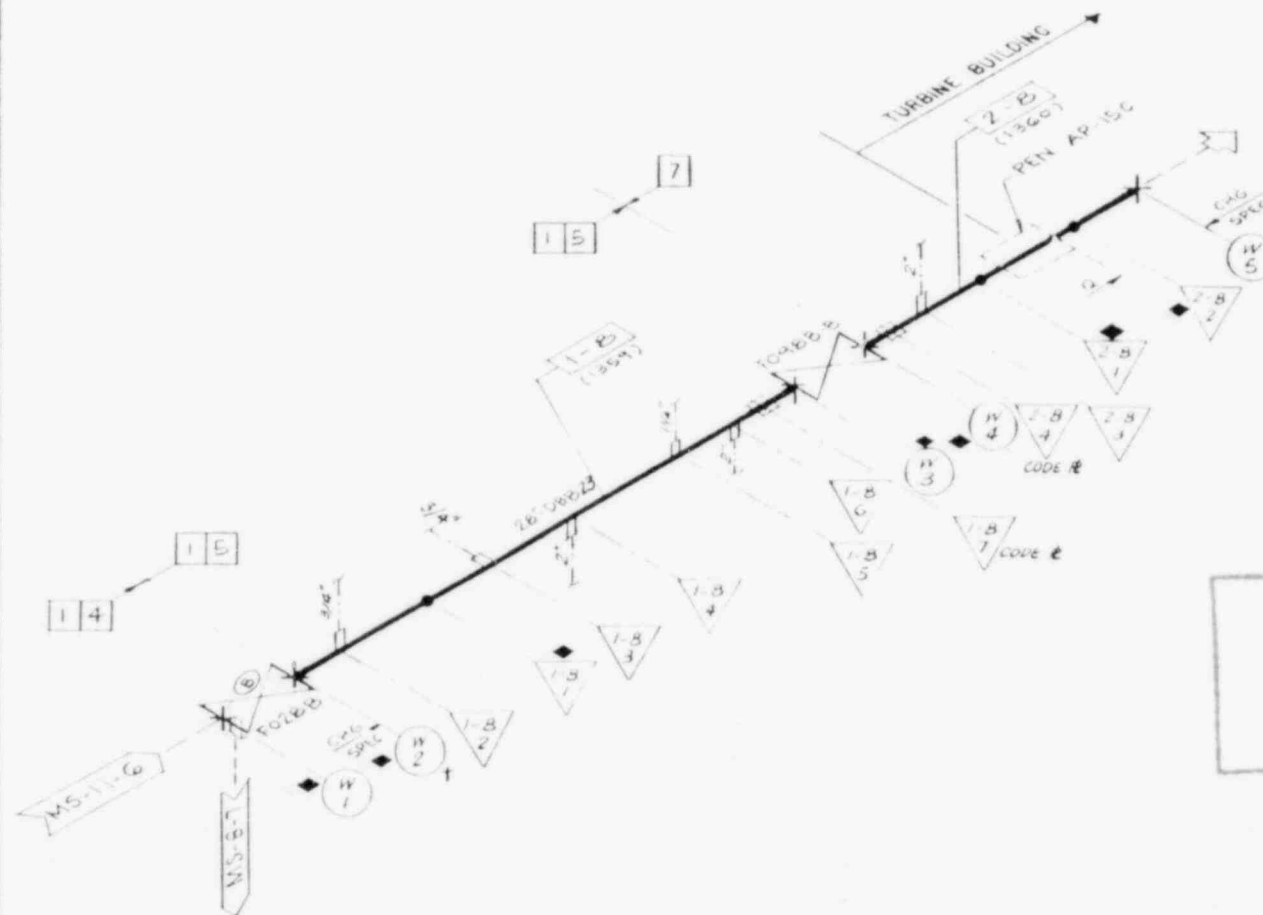
No. Pipe Spools	_____
No. Pipe Shop Welds	_____
No. Pipe Field Welds	_____
No. Hgs. Restraints	_____
TOTAL NO. WELDS	=====

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ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC			
PROJECT	MPBL	GG-1	(JB-1)
SYSTEM	MAIN STEAM	LOCATION	CTMT 8
LOOP'S B&D	AUX. BLDG.	REF. NO.	M-1320A
MAKE	S. GRAUS	REF. NO.	M-1077A
DATE	10-10-79	REF. NO.	SK-M-1599
REV.	1.00	REF. NO.	MS-O
REV.	1.00	REF. NO.	762 E950
REV.	1.00	REF. NO.	PAGE 1 of 1
REV.	1.00	REF. NO.	2

FLOOR ELEV 140'
MAIN STEAM TUNNEL



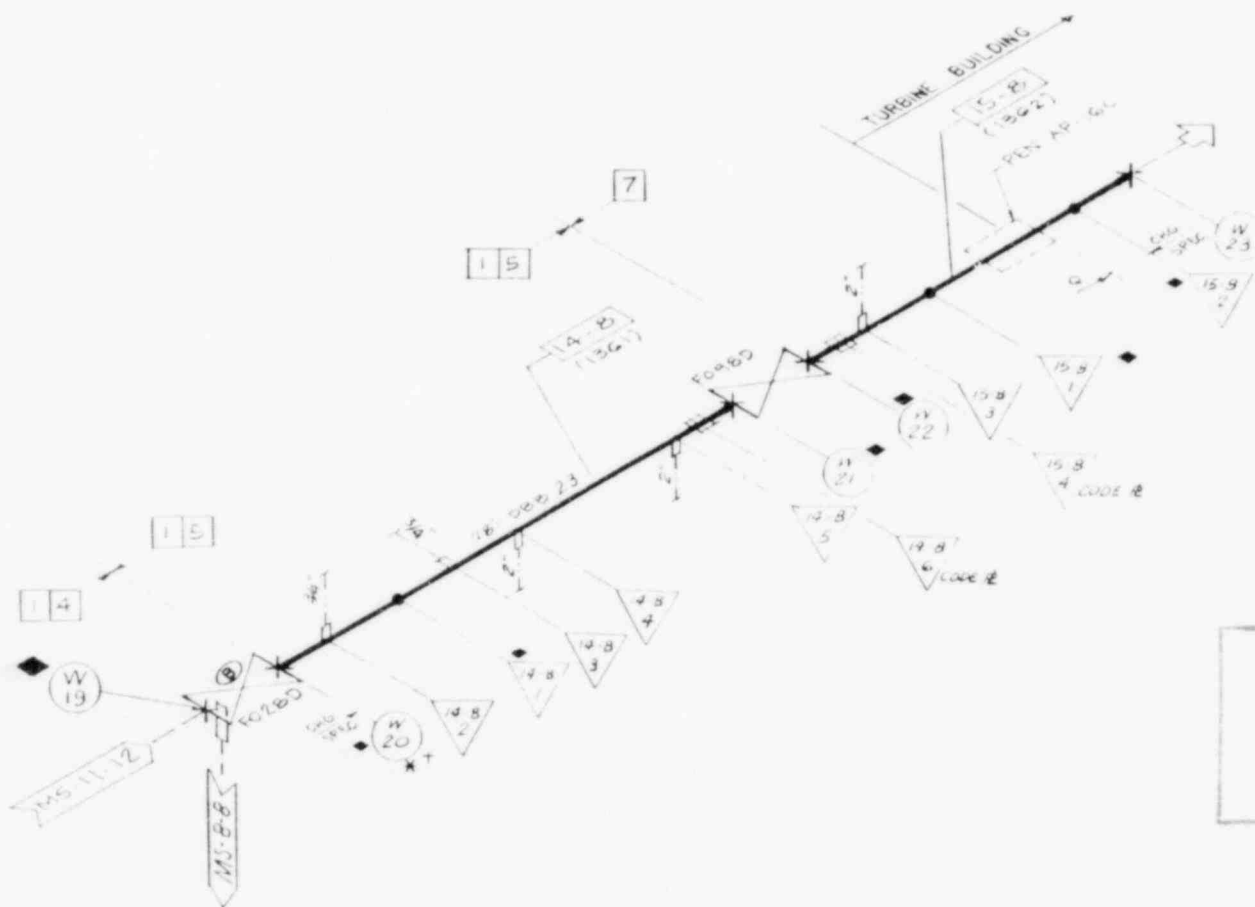
MPL NR (B21 GOSI)	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	1 D MARK COMP
W-1	"G"	BJ	UT	09-26-79		YES
W-2	"G"	CF	UT	09-20-79		YES
1-B-1	"E"	CF	UT	09-20-79		YES
W-3	"G"	CF	UT	09-25-79		YES
W-4	"G"	CF	UT	09-26-79		YES
2-B-1	"E"	CF	UT	10-03-79		YES
2-B-2	"E"	CF	UT	09-20-79		YES
W-1	"G"	BJ	PT	PBT		YES
W-2	"G"	CF	MT	03-11-81		YES
1-B-1	"E"	CF	MT	03-11-81		YES
W-3	"G"	CF	MT	03-11-81		YES
W-4	"G"	CF	MT	03-11-81		YES
2-B-1	"E"	CF	MT	03-11-81		YES
2-B-2	"E"	CF	MT	04-28-81		YES
VALVE FOZBB	BOLTS (20)	C-D	UT	03-20-81		YES

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ORIGINAL COPY WHEN THIS IMPRINT IN RED

MP&L	GG-1	(JB-1)	DWG. 04 01 77	18 SE NSO
SYSTEM	LOCATION	REF. ISO	REF. P&ID	DWG. NO.
MAIN STEAM	AUX. BLDG	M-1320A	M-1077A	MS-8
LOOP B			SP. M. 1599	PAGE 1 of 1

FLOOR ELEV 140'
MAIN STEAM TUNNEL



*CE-BECHTEL INTERFACE WELD
CAL STANDARD ID 29, 19

LINE NO. W THKNS
28" DBB-23 10"

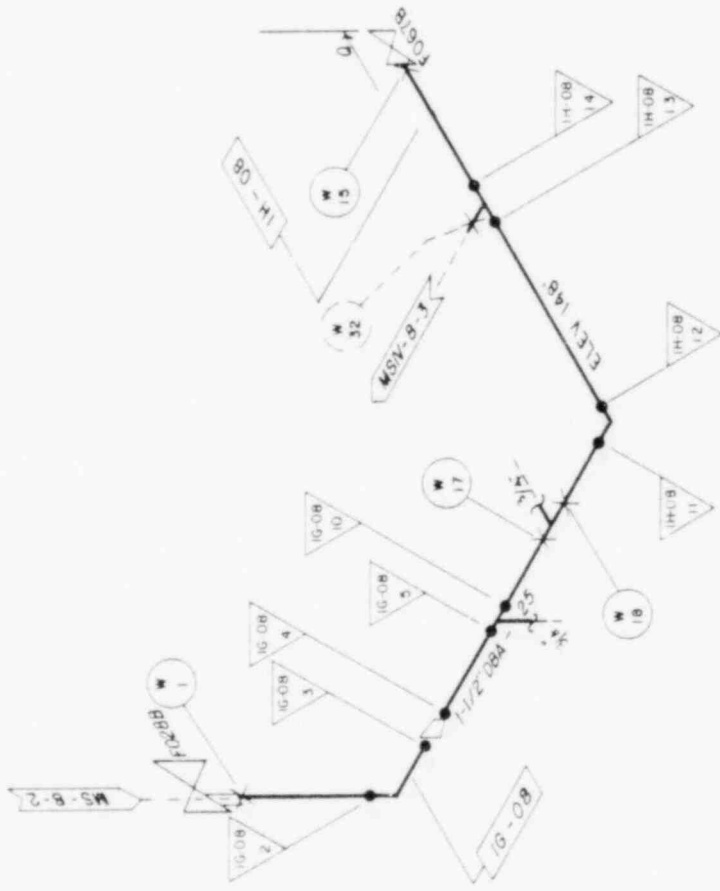
MS-0-2

MPL N°	WELD	CODE	TYPE	EXAM TIME	ACCESS	I.D
15116031	DESCR	CAT	EXAM	PERIOD	SATIS	MARK
W-19	"G"	BJ	UT	09-26-79		YES
W-20	"G"	CF	UT	09-19-79		YES
14-B-1	"E"	CF	UT	09-19-79		YES
W-21	"G"	CF	UT	09-17-79		YES
W-22	"G"	CF	UT	09-27-79		YES
15-B-1	"E"	CF	UT	10-03-79		YES
15-B-2	"E"	CF	UT	09-20-79		YES
VALVE	BOLTS(20)	C-D	UT	03-20-81		YES
F0280						
W-19	"G"	BJ	PT	PBT		YES
W-20	"G"	CF	MT	03-11-81		YES
14-B-1	"E"	CF	MT	03-11-81		YES
W-21	"G"	CF	MT	03-11-81		YES
W-22	"G"	CF	MT	03-11-81		YES
15-B-1	"E"	CF	MT	03-11-81		YES
15-B-2	"E"	CF	MT	03-11-81		YES

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ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MP&L	GG-1	(JB-1)	DWN 04-0477	IBSE NSO	REV 2
SYSTEM	LOCATION	REF ISO	S GRAUS	ATLANTA	DATE/PA
MAIN STEAM	AUX BLDG	M-1320A	REF P&ID	DWS NR	SMT
LOOP D			M-1077A	MS-8	4
			SK M-1599	PAGE 1 of 1	



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WELD NO.	WELD DESIGN	CONC. CAT.	TYPE EXAM	EXAM TIME PERIOD	ACCESS STATUS	I.D. MARK (CONC.)
W-1	"G"	BJ	PT	PBT		YES
IG-OB-2	"C"	BJ	PT	BECHTEL		YES
IG-OB-3	"C"	BJ	PT	BECHTEL		YES
IG-OB-4	"C"	BJ	PT	BECHTEL		YES
IG-OB-5	"C"	BJ	PT	BECHTEL		YES
IG-OB-10	"C"	BJ	PT	BECHTEL		YES
W-17	"C"	BJ	PT	PBT		YES
W-18	"C"	BJ	PT	PBT		YES
IH-OB-11	"C"	BJ	PT	BECHTEL		YES
IH-OB-12	"C"	BJ	PT	BECHTEL		YES
IH-OB-13	"C"	BJ	PT	BECHTEL		YES
IH-OB-14	"C"	BJ	PT	BECHTEL		YES
W-15	"G"	BJ	PT	PBT		YES

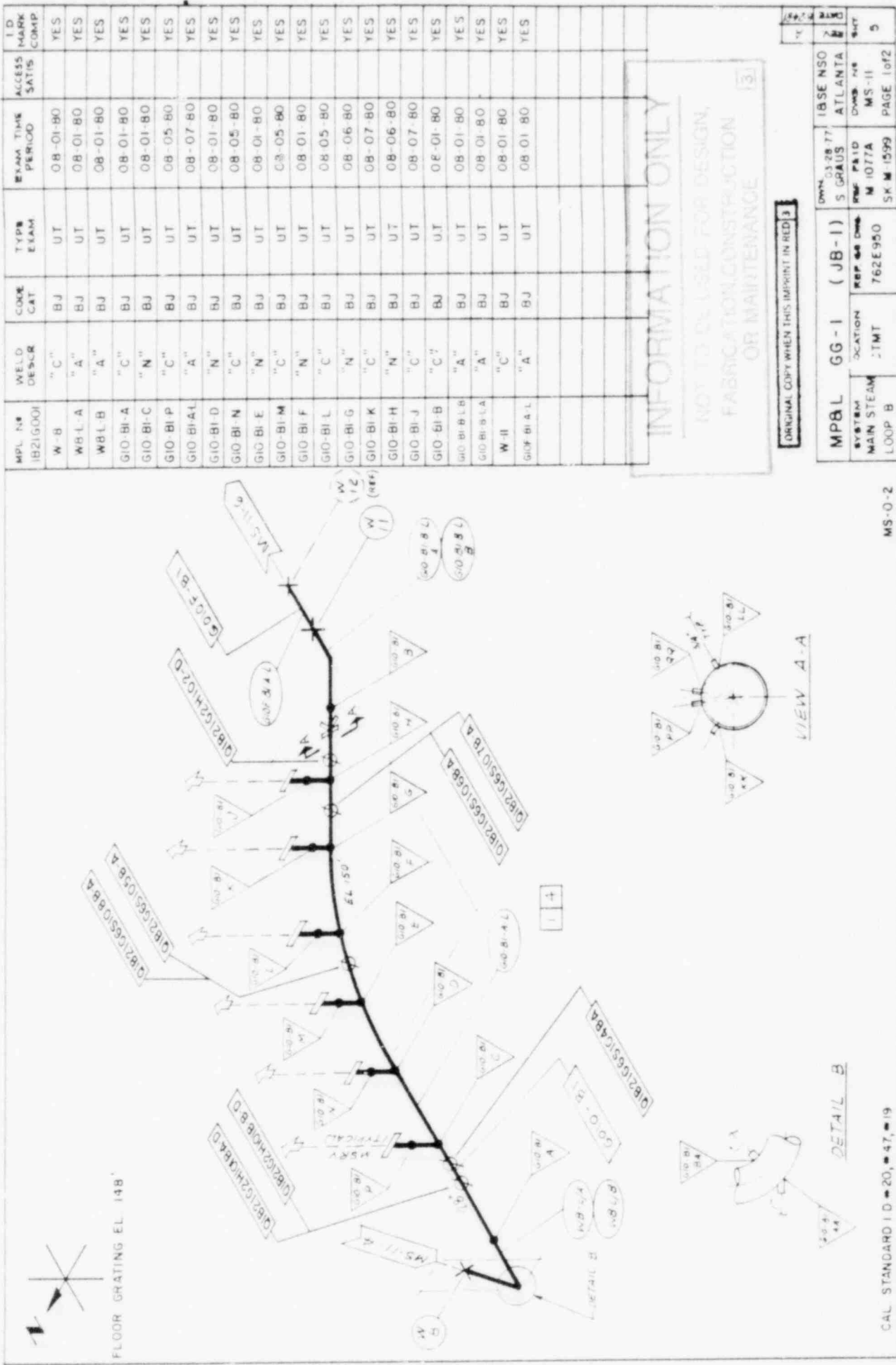
PROJECT		MPBL		GG-1 (JB-1)		IBSE-NSO		ATLANTA		PAGE 1 of 1	
SYSTEM		MAIN STM		M38-2		R DILL		M-1077A		MS-8	
LOCATION		AUX BLDG		FSK 5-0148		REP FIELD		M-1077A		MS-8	
LOOP B											

MS-0-2



ORIGINAL COPY WHEN THIS IMPRINT IN RED		GENERAL ELECTRIC	
PROJECT	MPBL	MADE BY	145E - NSO
		PRINTED ON	ATLANTA
		DATE	12-30-80
SYSTEM	MAIN STM	MADE BY	145E - NSO
		PRINTED ON	ATLANTA
		DATE	12-30-80
LOCATION	AUX BLDG.	MADE BY	MS - B
		PRINTED ON	PAGE 101
		DATE	12-30-80

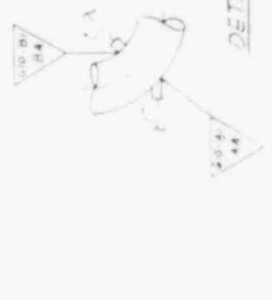
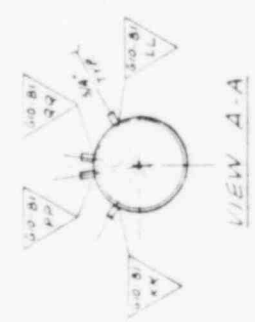
MS-0-2



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ORIGINAL COPY WHEN THIS IMPRINT IN RED

MPL N°	WELD	CODE	TYPE	EXAM	EXAM TIME	ACCESS	ID
IB21G001	DESCR	CAT	EXAM		PERIOD	SATIS	MARK
W-B	"C"	BJ	UT		08-01-80		YES
W-B-L-A	"A"	BJ	UT		08-01-80		YES
W-B-L-B	"A"	BJ	UT		08-01-80		YES
G10-B1-A	"C"	BJ	UT		08-01-80		YES
G10-B1-C	"N"	BJ	UT		08-01-80		YES
G10-B1-P	"C"	BJ	UT		08-05-80		YES
G10-B1-L	"A"	BJ	UT		08-07-80		YES
G10-B1-D	"N"	BJ	UT		08-01-80		YES
G10-B1-N	"C"	BJ	UT		08-05-80		YES
G10-B1-E	"N"	BJ	UT		08-01-80		YES
G10-B1-M	"C"	BJ	UT		08-05-80		YES
G10-B1-F	"N"	BJ	UT		08-01-80		YES
G10-B1-L	"C"	BJ	UT		08-05-80		YES
G10-B1-G	"N"	BJ	UT		08-06-80		YES
G10-B1-K	"C"	BJ	UT		08-07-80		YES
G10-B1-H	"N"	BJ	UT		08-06-80		YES
G10-B1-J	"C"	BJ	UT		08-07-80		YES
G10-B1-B	"C"	BJ	UT		08-01-80		YES
G10-B1-L-B	"A"	BJ	UT		08-01-80		YES
G10-B1-L-A	"A"	BJ	UT		08-01-80		YES
W-B	"C"	BJ	UT		08-01-80		YES
G10-B1-A-L	"A"	BJ	UT		08-01-80		YES



CAL STANDARD I D 20, 47, 19

MS-O-2

MPBL	GG-1	(JB-1)	IBSE NSO
SYSTEM	LOCATION	REP PAID	ATLANTA
MAIN STEAM	TMT	M 1077A	MS-11
LOOP B		SK M-1599	PAGE 1 of 2



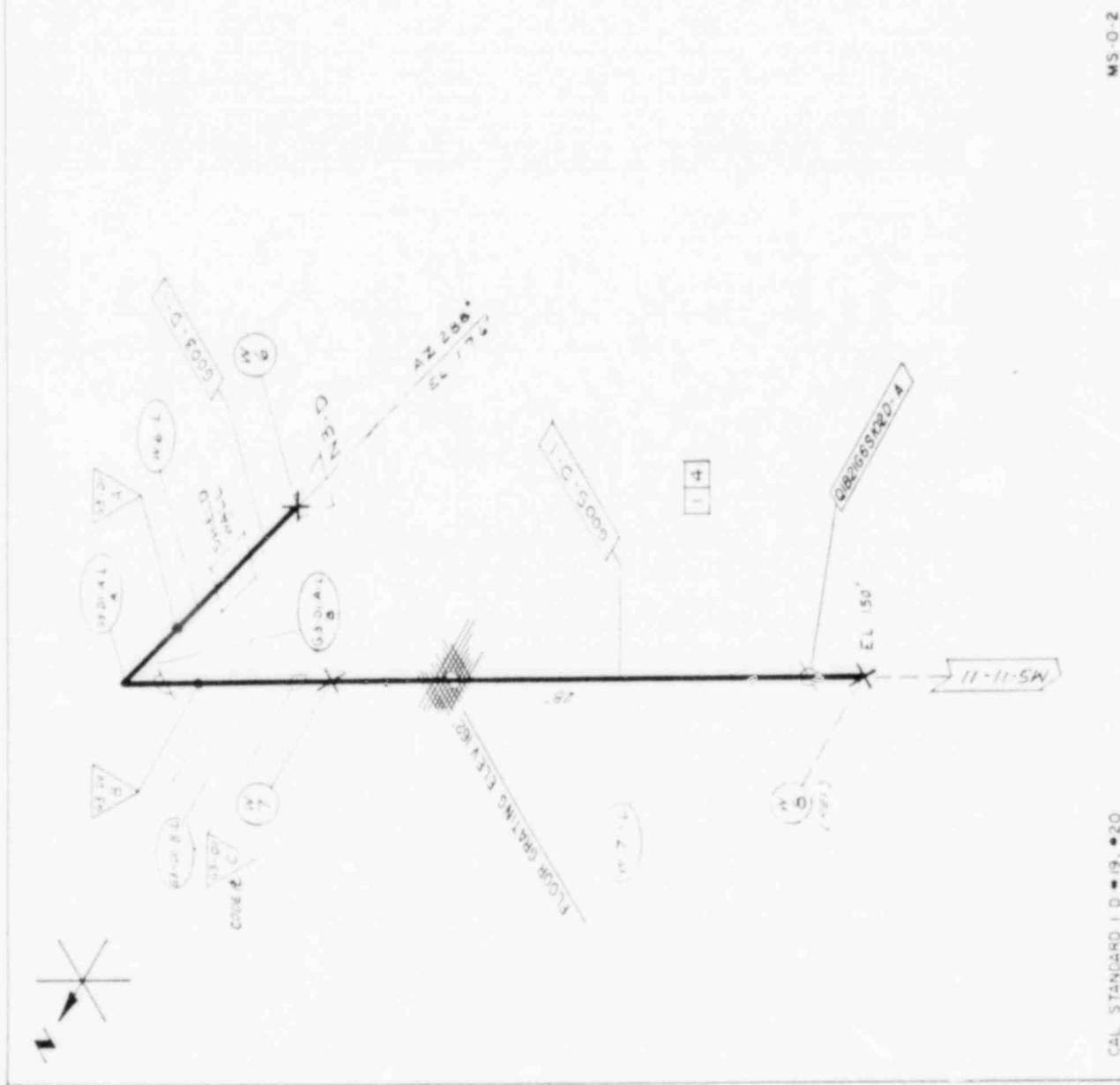
INFORMATION ONLY
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OR MAINTENANCE

WPL NO. 1B21G001	WELD DESCR	CODE CAT.	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATS.	1D MARK COMPL.
W-3	"C"	BJ	MT	PBT		YES
W8-L-A	"A"	BJ	PT	APBE		YES
W8-L-B	"A"	BJ	PT	APBE		YES
G10-B1-A	"C"	BJ	PT	APBE		YES
G10-B1-C	"N"	BJ	PT	APBE		YES
G10-B1-P	"C"	BJ	PT	APBE		YES
G10-B1-A1	"A"	BJ	MT	02-02-B1		YES
G10-B1-D	"N"	BJ	PT	APBE		YES
G10-B1-N	"C"	BJ	PT	APBE		YES
G10-B1-E	"N"	BJ	PT	APBE		YES
G10-B1-M	"C"	BJ	PT	APBE		YES
G10-B1-F	"N"	BJ	PT	APBE		YES
G10-B1-L	"C"	BJ	PT	APBE		YES
G10-B1-G	"N"	BJ	PT	APBE		YES
G10-B1-K	"C"	BJ	PT	APBE		YES
G10-B1-H	"N"	BJ	PT	APBE		YES
G10-B1-J	"C"	BJ	PT	APBE		YES
G10-B1-B	"C"	BJ	PT	APBE		YES
G10-B1-B-L	"A"	BJ	PT	APBE		YES
G10-B1-L-A	"A"	BJ	PT	APBE		YES
W-11	"C"	BJ	MT	PBT		YES
G10-B1-A-L	"A"	BJ	MT	02-02-B1		YES
H10B-A-D	HANGER	BK2	VT			N/A
H10B-B-D	HANGER	BK2	VT			N/A
S104B-A	HANGER	BK2	VT			N/A
S105B-A	HANGER	BK2	VT			N/A
S108B-A	HANGER	BK2	VT			N/A
S107B-A	HANGER	BK2	VT			N/A
S106B-A	HANGER	BK2	VT			N/A
H102B-D	HANGER	BK2	VT			N/A

ORIGINAL COPY WHEN THIS IMPRINT IN RED		GENERAL ELECTRIC	
PROJECT MPBL	GG-1	(JB-1)	ISSUED BY S. GRAIS
SYSTEM MAIN STEAM LOOP B	LOCATION CTMT	REF NO. 762E900	REF NO. M-1077A MS-11 SK-M-1599 PAGE 2 of 2

MPL NR	WELD	CODE	TYPE	EXAM	EXAM TIME	ACCESS	I.D.
IB21G001	DESCR	CAT	EXAM	PERIOD	SATIS	MARK	COMP
W 6	"D"	BJ	UT	08-02-80			YES
W6-L	"A"	BJ	UT	07-30-80			YES
G3 D1 A	"C"	BJ	UT	07-30-80			YES
G3 D1 ALB	"A"	BJ	UT	07-30-80			YES
G3-KA LA	"A"	BJ	UT	07-30-80			YES
G3 D1 B	"C"	BJ	UT	07-30-80			YES
G3 D1 BL	"A"	BJ	UT	07-30-80			YES
W 7	"E"	BJ	UT	07-30-80			YES
W7-L	"A"	BJ	UT	08-08-80			YES
W 6	"D"	BJ	MT	PBT			YES
W6-L	"A"	BJ	MT	01-28-81			YES
G3 D1 A	"C"	BJ	PT	APBE			YES
G3 D1 ALB	"A"	BJ	PT	APBE			YES
G3 D1 ALA	"A"	BJ	PT	APBE			YES
G3 D1 B	"C"	BJ	PT	APBE			YES
G3 D1 BL	"A"	BJ	MT	01-28-81			YES
W 7	"E"	BJ	MT	PBT			YES
W7-L	"A"	BJ	MT	01-28-81			YES
S102D-A HANGER	B K2	VT					N/A

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OR MAINTENANCE

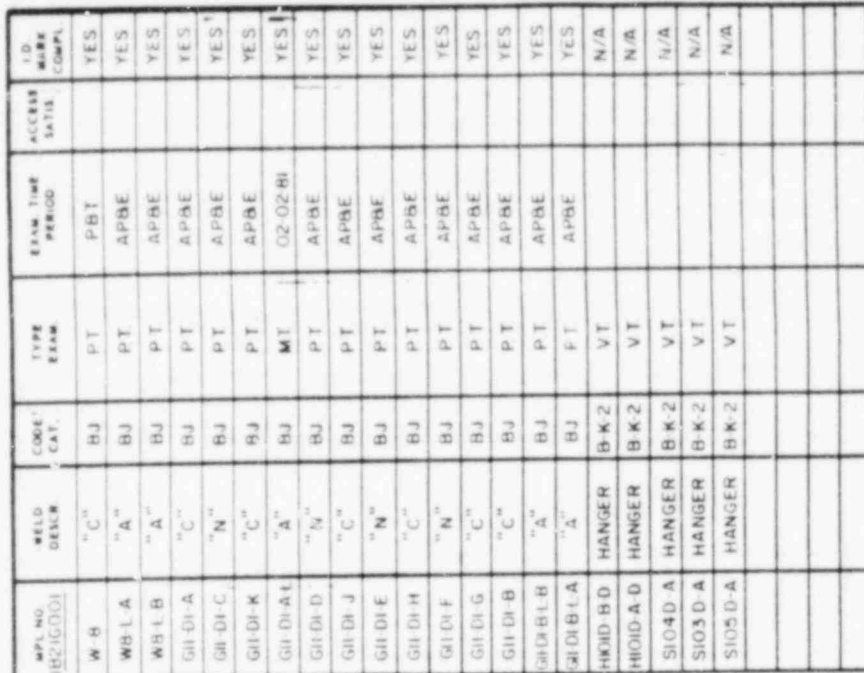


MPBL	GG-1	(JB-1)	IBSE NSO	ATLANTA	MS-11	PAGE 1 of 1
SYSTEM	LOCATION	CTMT	REP	DATE	DATE	DATE
MAIN STEAM	CTMT	762E950	762E950	762E950	762E950	762E950
LOOP D						

ORIGINAL COPY WHEN THIS IMPRINT IS RED 13

MS-0-2

CAL STANDARD 10-19, #20



ORIGINAL COPY WITHIN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	GG-1 (JB-1)	WORK NO.	463E-N900
SYSTEM	MPBL	DATE	05-31-77
LOCATION	CTMT	BY	STANLEY
MAINSTEAM		REP NO.	M3-11
LOOP D		SK-M-1559	PAGE 2 of 2

RV — MAIN STEAM RELIEF — B21

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3

DRAWING

SYMBOLS

LETTER

SYMBOLS



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



LINE SIZE &
SPECIFICATION
DESIGNATION

SHOP WELD
I.D. NO.



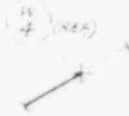
FIELD WELD
I.D. NO.



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.



PLUG BUTTERFLY
VALVE
I.D. NO.



ELL



REDUCER



TEE



STUB-IN FITTING
(WOL, SOL, ETC)



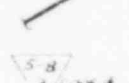
PLUGGED STUB-IN



WELD CAP



SCREWED CAP



PLAIN END



VENDOR CODE TAG
& SHOP WELD NO.



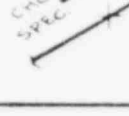
PENETRATION
SLEEVES



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. RM STORAGE & TRANSFER
CX - REACTOR WATER CLEANUP
CW - COMP. 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 (RWCD)
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 MAKEUP
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
J - FITTING TO FITTING
K - FITTING TO PUMP
L - FITTING TO VALVE
M - VALVE TO VALVE
N - PIPE TO SWEETLET
P - PIPE TO SOCKET
R - CODE TAG WELD

ABBREVIATIONS

AUX - AUXILIARY
BLDG - BUILDING
CL - CENTERLINE
CL - CLASS
COMP - COMPLETE or COMPONENT
CTMT - CONTAINMENT
DW - DRYWELL
DWG - DRAWING
ELEV - 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 - SOCKET
STD - STANDARD

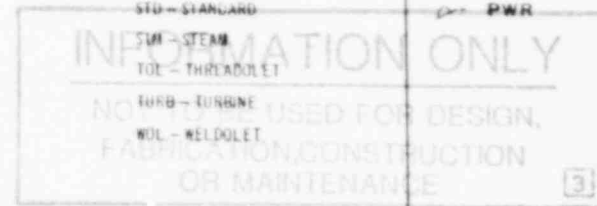
STM - STEAM
TOL - THREADLET

TURB - TURBINE
WOL - WELDLET

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
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.
35IN798C00G
REV.
A

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 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 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

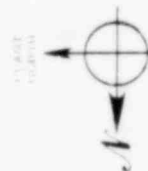
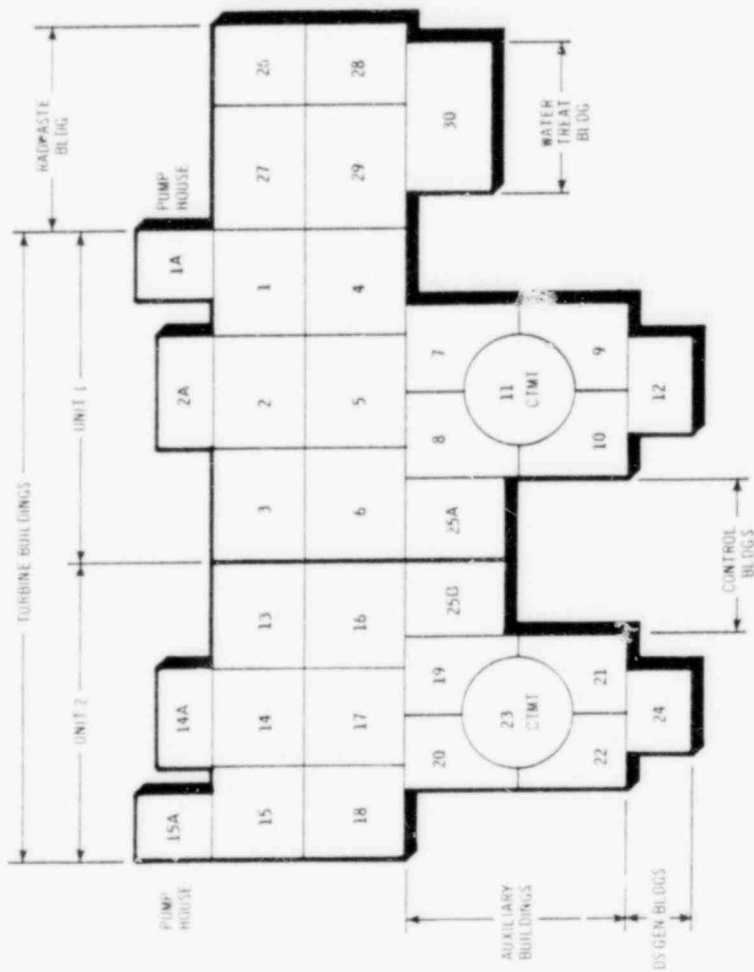
Z FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3. DESIGNED PER ANSI B31.1
N-STAMPING, SEISMIC ANALYSIS AND Q-LISTING ARE
NOT REQUIRED

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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		CRABINE 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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FOR CONSTRUCTION WITHOUT
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ORIGINAL COPY WHEN THIS IMPRINT IN RED

SCALE	JOB NO.	TITLE	GENERAL ELECTRIC
NONE	JB-1	KEY PLAN	NUCLEAR SERVICE OPERATION
CONTRACT NO.	360074002	AREA LOCATIONS	INSTALLATION & SERVICE ENGINEERING DIV.
MADE FOR	MISSISSIPPI POWER & LIGHT	PROJECT	ATLANTA, GEORGIA
		GRAND GULF NUCLEAR PLANT	DRAWING NO.
			35IN 8008007
			REV. NO.
			A

INDEX TO ISOS FOR B-21 SYSTEM-MAIN STEAM RELIEF

COMPOSITE : RV-0-1

REV.
A

 COMPOSITE : RV-0-2

REV.
A

 COMPOSITE : RV-0-3

REV.
A

 COMPOSITE : RV-0-4

REV.
A

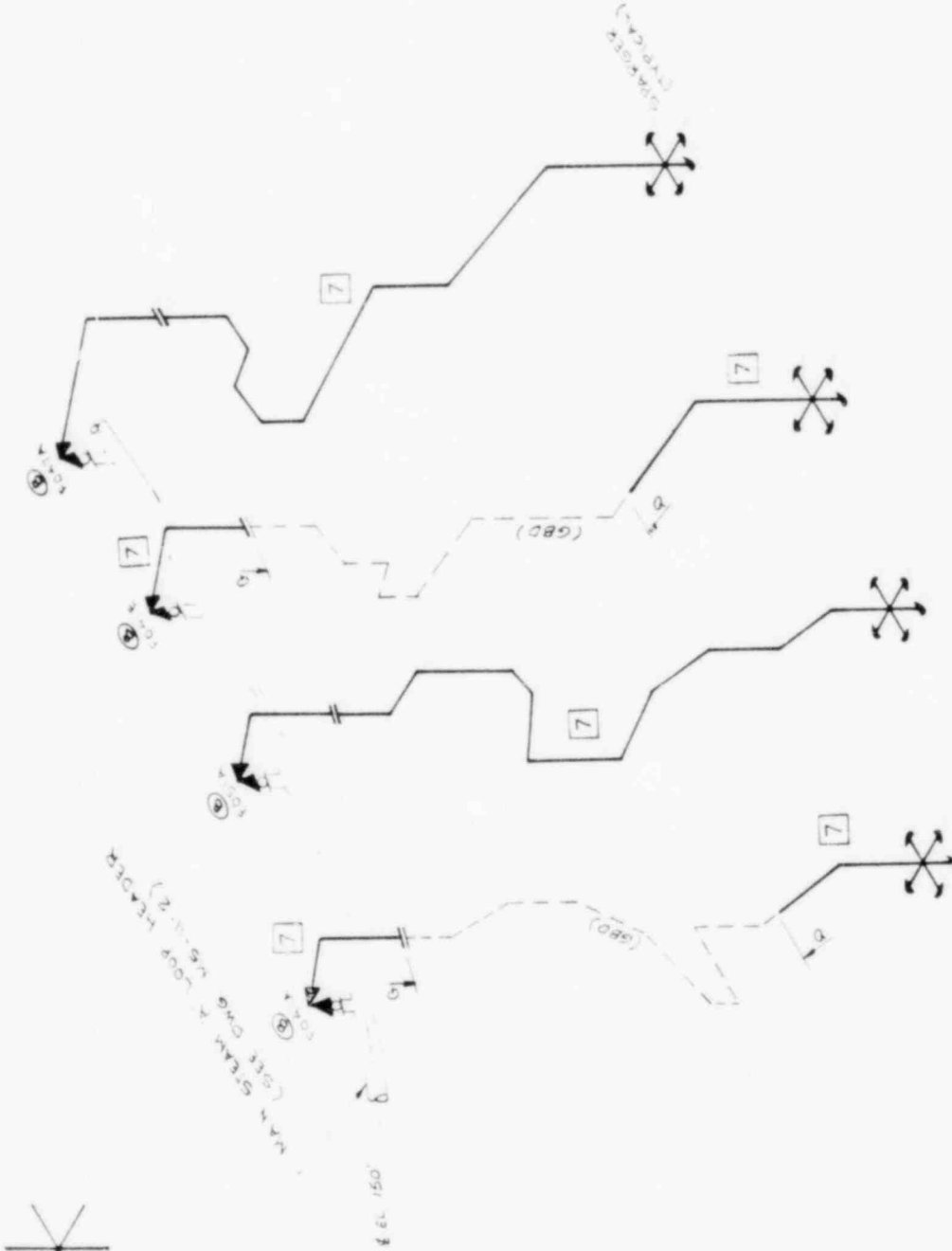
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OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

REV.	A
DATE	8/24/8

REF. MPL: 1B21



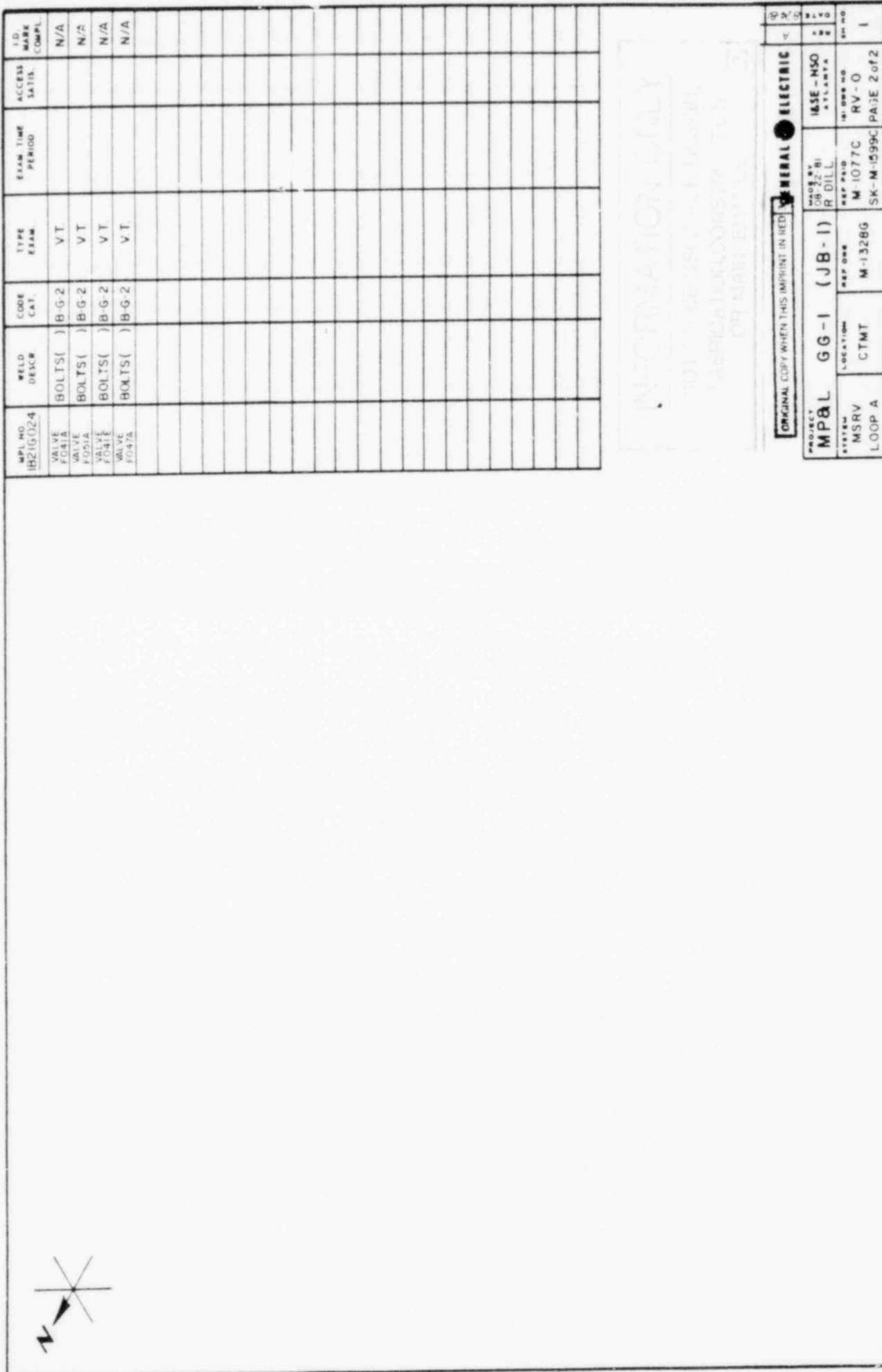
No. Pipe Spools _____
 No. Pipe Shop Welds _____
 No. Pipe Field Welds _____
 No. Hgts. Restraints _____
 TOTAL NO. WELDS _____

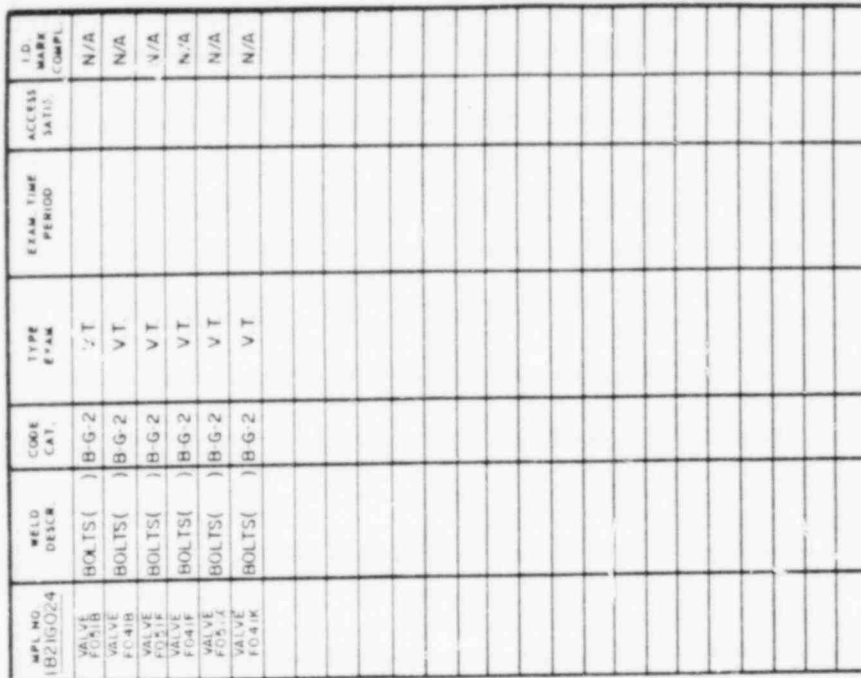
INFORMATION ONLY

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 FABRICATION, CONSTRUCTION
 OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED

PROJECT	MPBL	GG-1	(JB-1)	MADE BY	05-24-79	ISSUE - NSO	1
SYSTEM	MSRV	LOCATION	CTMT	S GRAUS	ATLANTA	RV - O	
				REP Dwg	M-1077C	SK-M-1599C	PAGE 1 of 2
				REP Dwg	M-1328G		





ORIGINAL COPY WHEN THIS IMPRINT IN RED.

GENERAL ELECTRIC

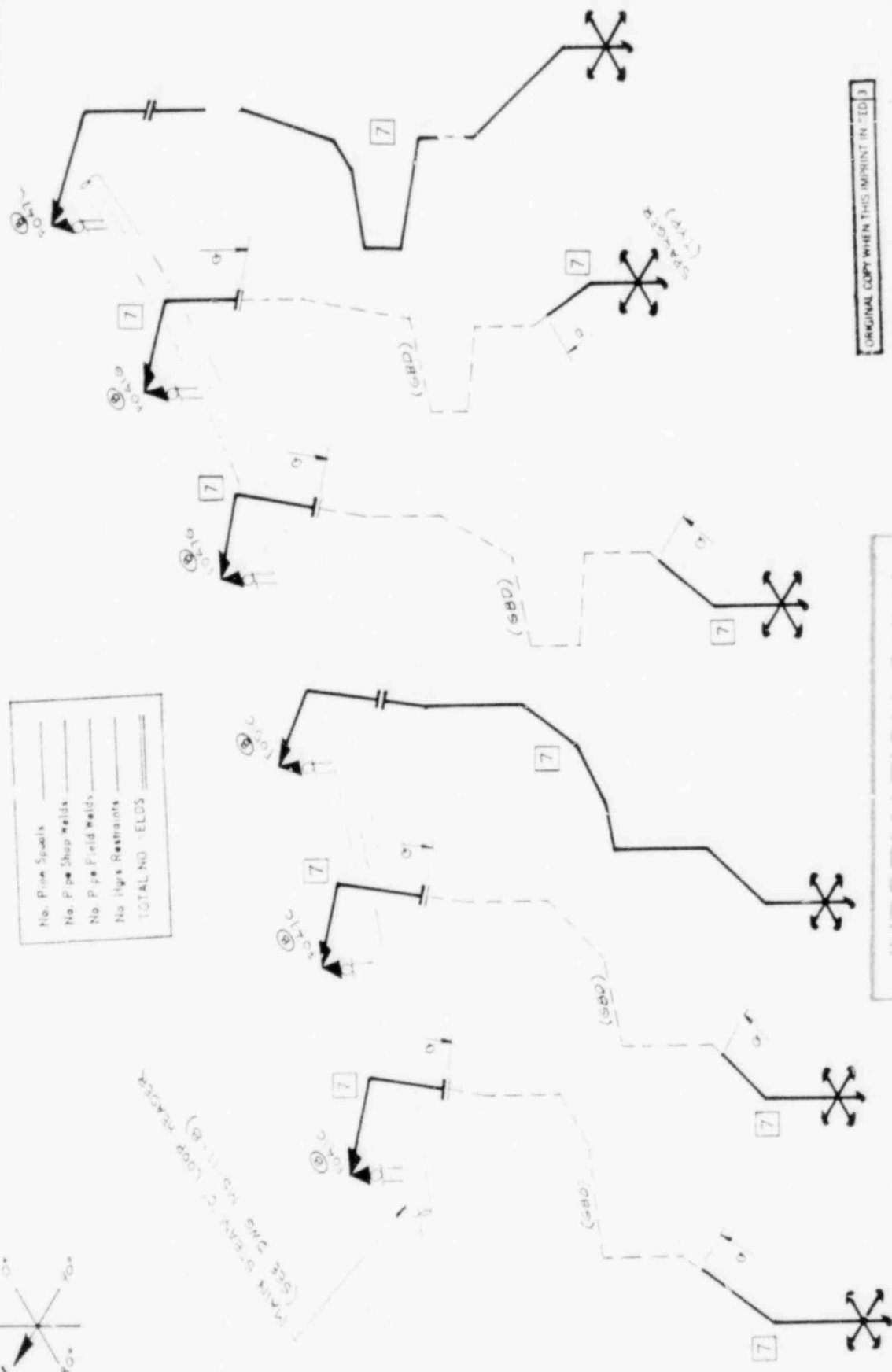
PROJECT	GG-1 (JB-1)	MADE BY	DATE
MPAL		CH-12-B1	1970
		RULL	ATLANTA
SYSTEM	REF NO	REF NO	ISSUE NO
MSRV	M-1328E	M-1077C	RV-0
LOOP B	M-1328F	SK-M-1599	PAGE 2 of 2

REF. MPL: 1B21



No. Prime Spools	_____
No. Pipe Shop Welds	_____
No. Pipe Field Welds	_____
No. Hys Restraints	_____
TOTAL NO. ELDS	=====

MAIN BRANCH TO LOOP HEADERS
(SEE DWG NO. 11-8)



ORIGINAL COPY WHEN THIS IMPRINT IN 'ED 3

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CONSTRUCTION

UNCLASSIFIED

PROJECT		MPBL	GG-1	(JB-1)	MADE BY	05-28-78	ISSUE - NSO
SYSTEM		MSRV	LOOP C	LOCATION	S. GRAUS	ATLANTA	ATLANTA
REVISION		CTMT	M-1328H	REV. NO.	M-1077C	RV-0	RV-0
PAGE		1 of 2	SK-M-1599	DATE	1978	1978	1978



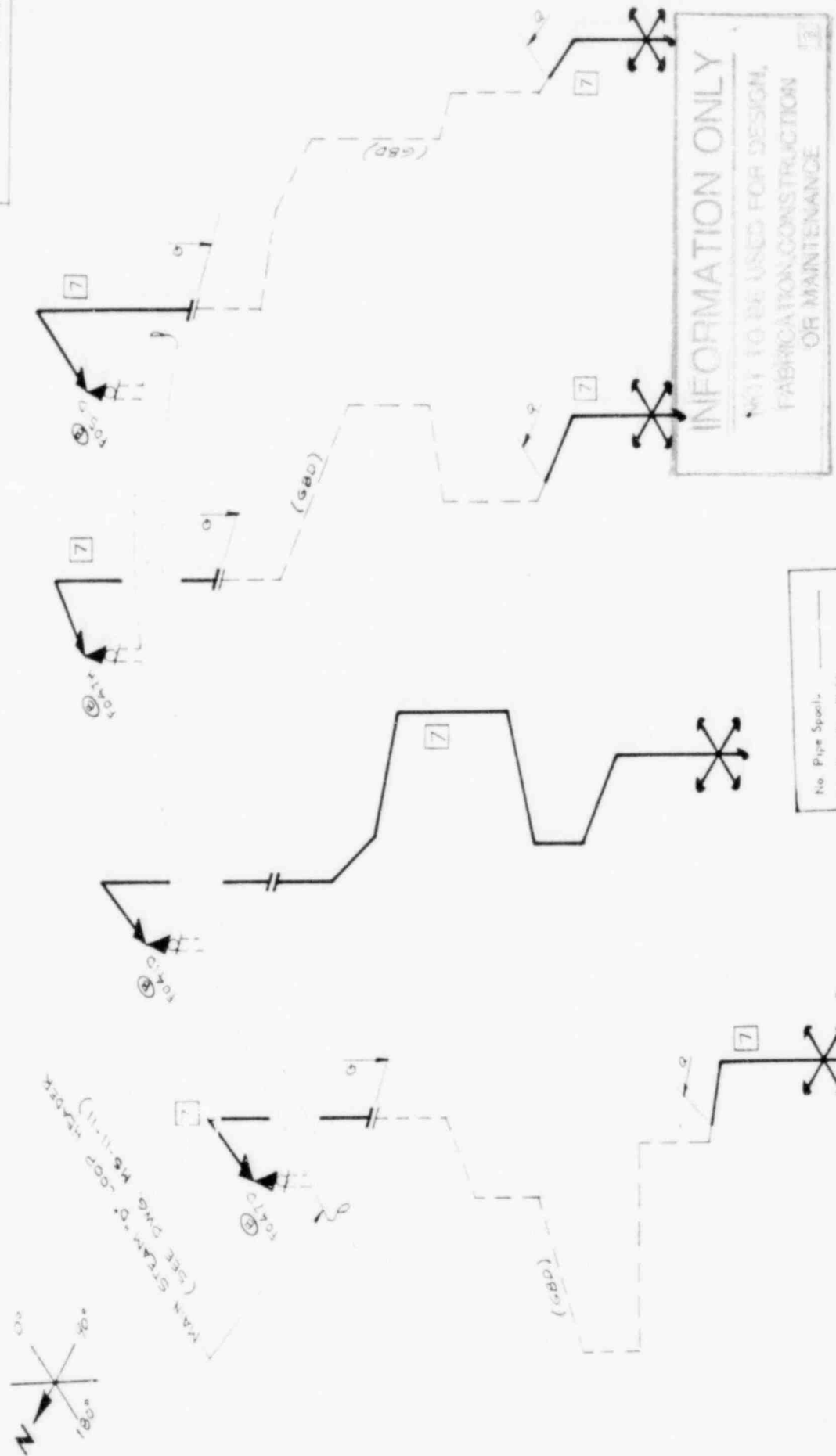
WELD ID	WELD DESC	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS STATUS	I.D. MARK COMPL
10210025	BOLTS()	B-G-2	VT			N/A
10210026	BOLTS()	B-G-2	VT			N/A
10210027	BOLTS()	B-G-2	VT			N/A
10210028	BOLTS()	B-G-2	VT			N/A
10210029	BOLTS()	B-G-2	VT			N/A
10210030	BOLTS()	B-G-2	VT			N/A
10210031	BOLTS()	B-G-2	VT			N/A
10210032	BOLTS()	B-G-2	VT			N/A
10210033	BOLTS()	B-G-2	VT			N/A
10210034	BOLTS()	B-G-2	VT			N/A
10210035	BOLTS()	B-G-2	VT			N/A
10210036	BOLTS()	B-G-2	VT			N/A
10210037	BOLTS()	B-G-2	VT			N/A
10210038	BOLTS()	B-G-2	VT			N/A
10210039	BOLTS()	B-G-2	VT			N/A
10210040	BOLTS()	B-G-2	VT			N/A
10210041	BOLTS()	B-G-2	VT			N/A
10210042	BOLTS()	B-G-2	VT			N/A
10210043	BOLTS()	B-G-2	VT			N/A
10210044	BOLTS()	B-G-2	VT			N/A
10210045	BOLTS()	B-G-2	VT			N/A
10210046	BOLTS()	B-G-2	VT			N/A
10210047	BOLTS()	B-G-2	VT			N/A
10210048	BOLTS()	B-G-2	VT			N/A
10210049	BOLTS()	B-G-2	VT			N/A
10210050	BOLTS()	B-G-2	VT			N/A
10210051	BOLTS()	B-G-2	VT			N/A
10210052	BOLTS()	B-G-2	VT			N/A
10210053	BOLTS()	B-G-2	VT			N/A
10210054	BOLTS()	B-G-2	VT			N/A
10210055	BOLTS()	B-G-2	VT			N/A
10210056	BOLTS()	B-G-2	VT			N/A
10210057	BOLTS()	B-G-2	VT			N/A
10210058	BOLTS()	B-G-2	VT			N/A
10210059	BOLTS()	B-G-2	VT			N/A
10210060	BOLTS()	B-G-2	VT			N/A
10210061	BOLTS()	B-G-2	VT			N/A
10210062	BOLTS()	B-G-2	VT			N/A
10210063	BOLTS()	B-G-2	VT			N/A
10210064	BOLTS()	B-G-2	VT			N/A
10210065	BOLTS()	B-G-2	VT			N/A
10210066	BOLTS()	B-G-2	VT			N/A
10210067	BOLTS()	B-G-2	VT			N/A
10210068	BOLTS()	B-G-2	VT			N/A
10210069	BOLTS()	B-G-2	VT			N/A
10210070	BOLTS()	B-G-2	VT			N/A
10210071	BOLTS()	B-G-2	VT			N/A
10210072	BOLTS()	B-G-2	VT			N/A
10210073	BOLTS()	B-G-2	VT			N/A
10210074	BOLTS()	B-G-2	VT			N/A
10210075	BOLTS()	B-G-2	VT			N/A
10210076	BOLTS()	B-G-2	VT			N/A
10210077	BOLTS()	B-G-2	VT			N/A
10210078	BOLTS()	B-G-2	VT			N/A
10210079	BOLTS()	B-G-2	VT			N/A
10210080	BOLTS()	B-G-2	VT			N/A
10210081	BOLTS()	B-G-2	VT			N/A
10210082	BOLTS()	B-G-2	VT			N/A
10210083	BOLTS()	B-G-2	VT			N/A
10210084	BOLTS()	B-G-2	VT			N/A
10210085	BOLTS()	B-G-2	VT			N/A
10210086	BOLTS()	B-G-2	VT			N/A
10210087	BOLTS()	B-G-2	VT			N/A
10210088	BOLTS()	B-G-2	VT			N/A
10210089	BOLTS()	B-G-2	VT			N/A
10210090	BOLTS()	B-G-2	VT			N/A
10210091	BOLTS()	B-G-2	VT			N/A
10210092	BOLTS()	B-G-2	VT			N/A
10210093	BOLTS()	B-G-2	VT			N/A
10210094	BOLTS()	B-G-2	VT			N/A
10210095	BOLTS()	B-G-2	VT			N/A
10210096	BOLTS()	B-G-2	VT			N/A
10210097	BOLTS()	B-G-2	VT			N/A
10210098	BOLTS()	B-G-2	VT			N/A
10210099	BOLTS()	B-G-2	VT			N/A
10210100	BOLTS()	B-G-2	VT			N/A

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OFFICIAL COPY WHEN THIS IMPRINT IN RED

PROJECT MP8L GG-1 (JB-1)		GENERAL ELECTRIC		PAGE 2 of 2	
SYSTEM MSRV	LOCATION CTNY	DESIGN M-1328H	REV M-1077C	ISSUED ATLANTA	REV ATLANTA
LOOP C		M-1328L	SK-M 1599	RV-O	RV-O

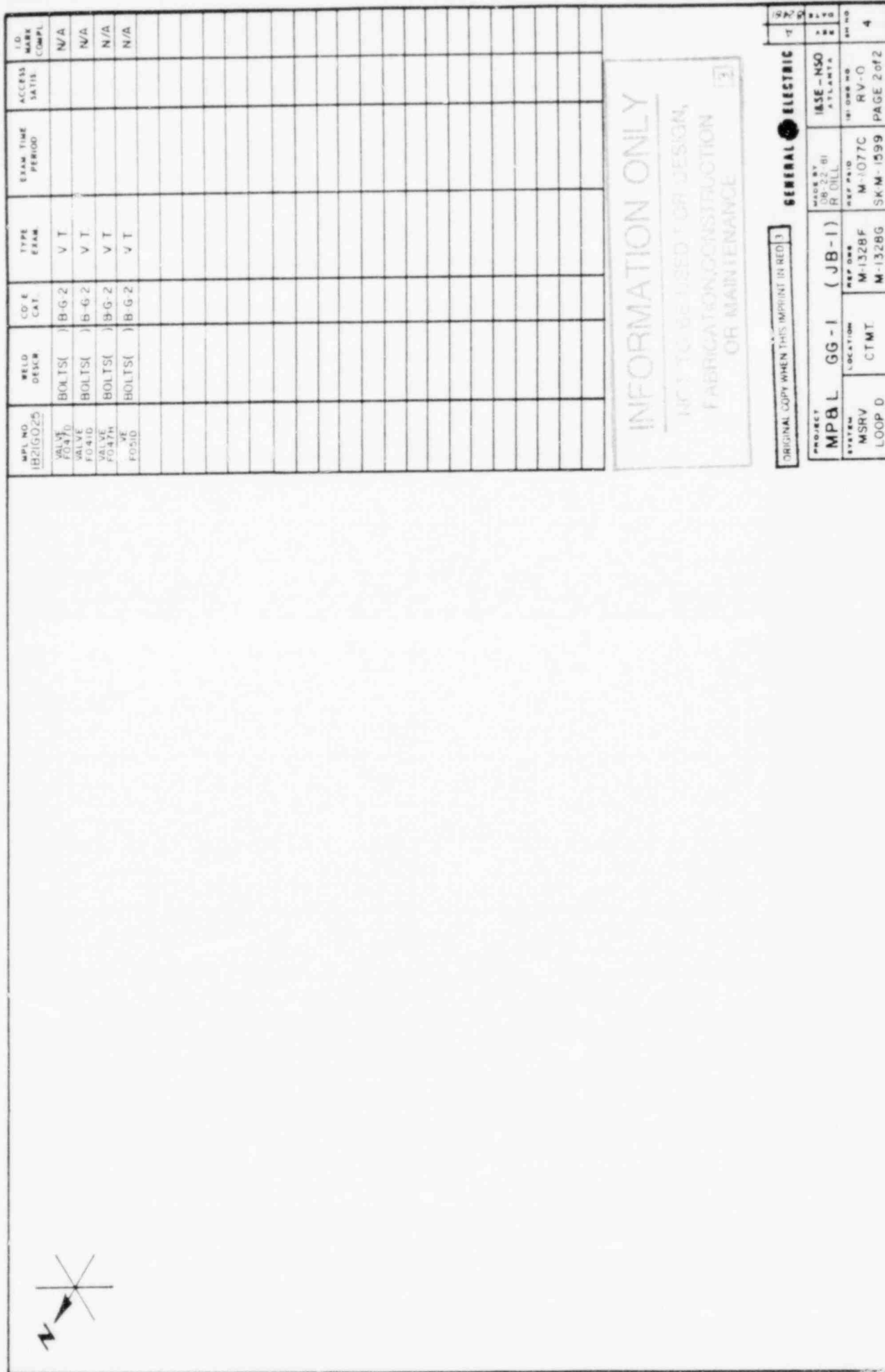
REF. MPL: 1B2



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

ORIGINAL COPY WHEN THIS IMPRINT IN RED

PROJECT		MPBL GG-1 (JB-1)		MADE BY		I&SE - NSO ATLANTA	
SYSTEM		MSRV LOOP D		REF. Dwg		M-1328F	
LOCATION		CTMT		REF. Dwg		M-1328G	
CTMT		SK M-1599		RV-O		PAGE 1 of 2	
4							











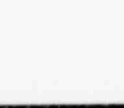
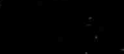


SD - MAIN STEAM DRAINS - B21

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3

DRAWING SYMBOLS		LETTER SYMBOLS	
 <p>SPOOL I.D. NO. IN VENDOR DWG NO. IN PARENTHESES</p>		<p>PIPING SYSTEMS</p>	
 <p>LINE SIZE & SPECIFICATION DESIGNATION</p>		<p>WELDING CONFIGURATION</p>	
 <p>SHOP WELD I.D. NO.</p>		<p>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 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</p>	
 <p>FIELD WELD I.D. NO.</p>		<p>ABBREVIATIONS</p>	
 <p>LONGITUDINAL SEAM WELD I.D. NO.</p>		<p>HANGERS</p>	
 <p>DWG. CONTINUATION (ARROW POINTS IN DIRECTION OF FLOW)</p>		<p>AUX - AUXILIARY BLDG - BUILDING CL - CENTERLINE CL - CLASS COMP - COMPLETE COMPONENT 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 OR NOZZLE PEN - PENETRATION</p>	
 <p>VENDOR CODE TAG & SHOP WELD NO.</p>		<p>REV - REVISION RPV - REACTOR VESSEL RX - REACTOR SCH - SCHEDULE SHT - SHEET SOL - SOCKLET STD - STANDARD STM - STEAM TOL - THREADLET TURB - TURBINE WOL - WELDLET</p>	
 <p>PENETRATION SLEEVE</p>		<p>NOT TO BE USED FOR DESIGN, FABRICATION, CONSTRUCTION OR MAINTENANCE</p>	
 <p>PENETRATION SLEEVE W/ FLANGE HEAD OR SEAL PLATE</p>		<p>ORIGINAL COPY WHEN THIS IMPRINT IN RED</p>	
 <p>"IN-LINE" PENETRATION</p>		<p>LEGEND FOR ISI ISOMETRIC DRAWINGS</p>	
 <p>LIMIT OF SAFETY RELATED PIPING & COMPONENTS</p>		<p>PROJECT GRAND GULF NUCLEAR PLANT</p>	
 <p>POINT OF DESIGN SPECIFICATION CHANGE</p>		<p>GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV. ATLANTA, GEORGIA</p>	
<p>ELL</p>		<p>DRAWING NO. 351N79B0006</p>	
<p>REDUCER</p>		<p>REV A</p>	

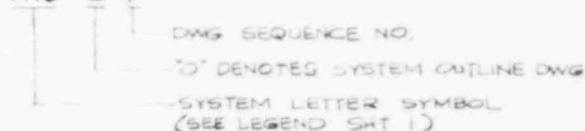
ISI EXAMINATION REQUIREMENTS

- 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 2000 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 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 (IWC-5000)
- 7 ASME CLASS 2 AND 3 COMPONENTS EXEMPT FROM ANY ISI PER ASME SECTION XI

DWG. NUMBERING SYSTEM

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

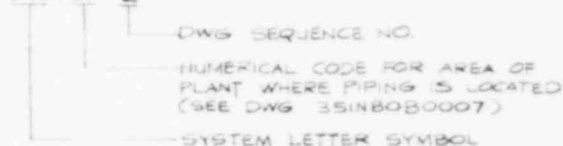
EXAMPLE: MS-0-1



II. WELD IDENTIFICATION DWGS. (ISOMETRICS)

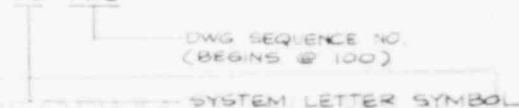
A. ASME CLASS 1 & 2 SYSTEMS

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. 860474002		PROJECT GRAND GULF NUCLEAR PLANT	
MADE FOR MISSISSIPPI POWER & LIGHT		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 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 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

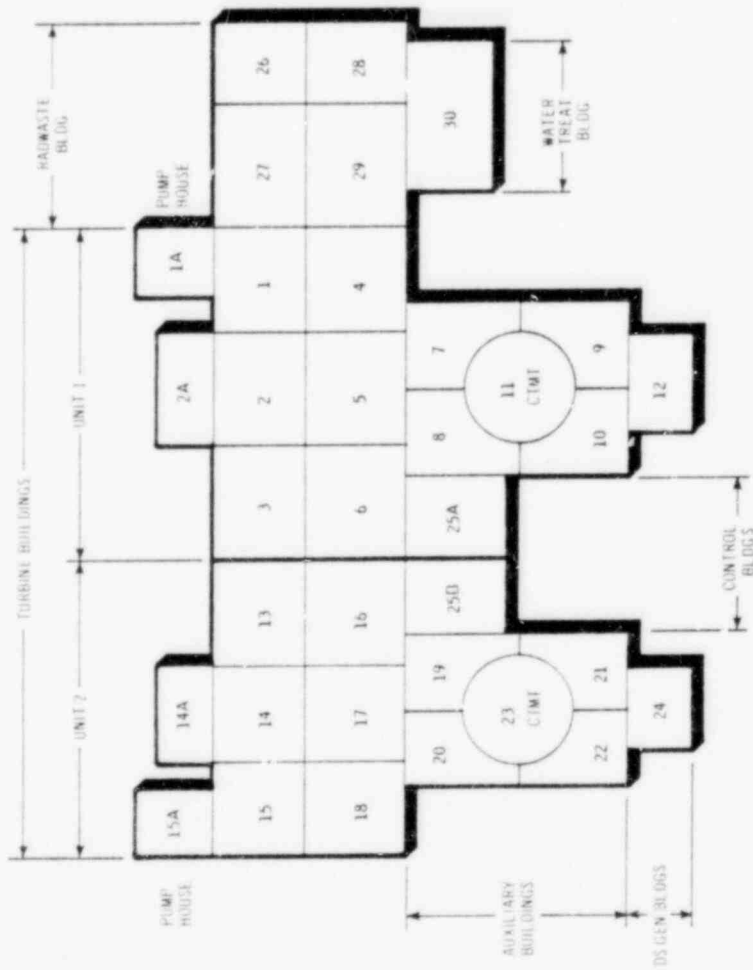
J AMERICAN WATER WORKS ASSOCIATION STANDARDS

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. 35IN79B0006	REV A
MADE FOR MISSISSIPPI POWER & LIGHT CO.		SHEET NO. 3 of 3		



GRAND GULF NUCLEAR STATION UNITS 1 AND 2

PORT JERSON, MISSISSIPPI
MISSISSIPPI POWER & LIGHT COMPANY

INFORMATION ONLY
FOR THE DESIGN OF THE
FABRICATED STEEL STRUCTURE
OF THE PLANT

ORIGINAL COPY WHEN THIS IMPRINT IN RED

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 B-2I SYSTEM-STEAM DRAIN

COMPOSITE: SD-0-1

ISOS: SD-8-1

SD-8-2

SD-11-1

SD-11-2

SD-11-3

SD-11-4

SD-11-5

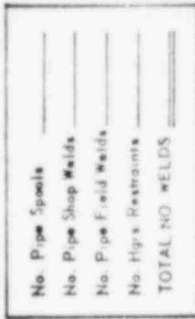
SD-11-6

SD-100

REV
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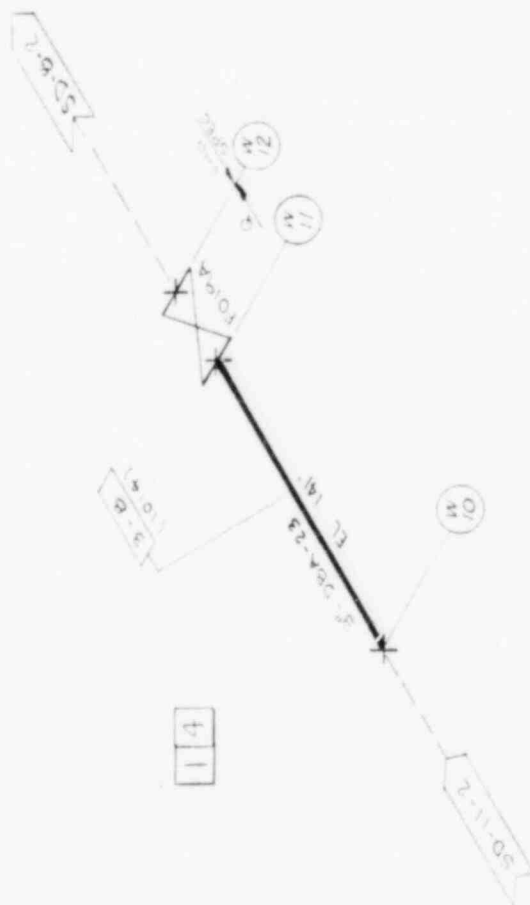
ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

REV	A
DATE	12/24/81



ORIGINAL COPY WHEN THIS IMPRINT IN RED

PROJECT	MP&L GG-1	(JB-1)	MADE BY	ALSE-N&O ATLANTA	REV
SYSTEM	MAIN STEAM	CTMT &	ON 17 79		1
DRAINS	AUX BLDG		S GRAUS		
		REP DWS	REP PAID	50-0	
		M-13280	M-1077A		
			SK-M-6939A	PAGE 1 of 1	
			GENERAL ELECTRIC		

[illegible]

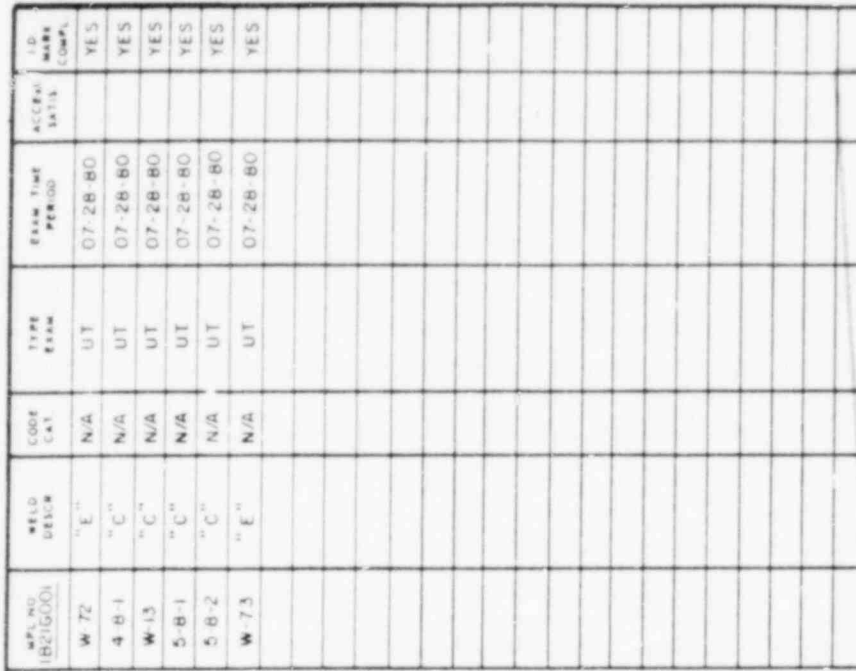
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ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

ORIGINAL COPY WHEN THIS IMPRINT IS RELEASED	SYSTEM MAIN STEAM DRANS	LOCATION AUX BLDG	REF. ISO M-1328D	GG-1 (JB-1)	DWM S GRAUS 27-77	REF. FIELD M-1077A	DWM. NR SO - 8	IBSE NSO ATLANTA	44-25	BLDG
									A	APR 68

1-0-05

CAL STANDARD 10 - 28



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ORIGINAL COPY WHEN THIS MESSAGE IS FILED

[illegible]

SD-0-1

ISI DUE TO NO BREAK ZONE

CAL STANDARD 10-28

[illegible]

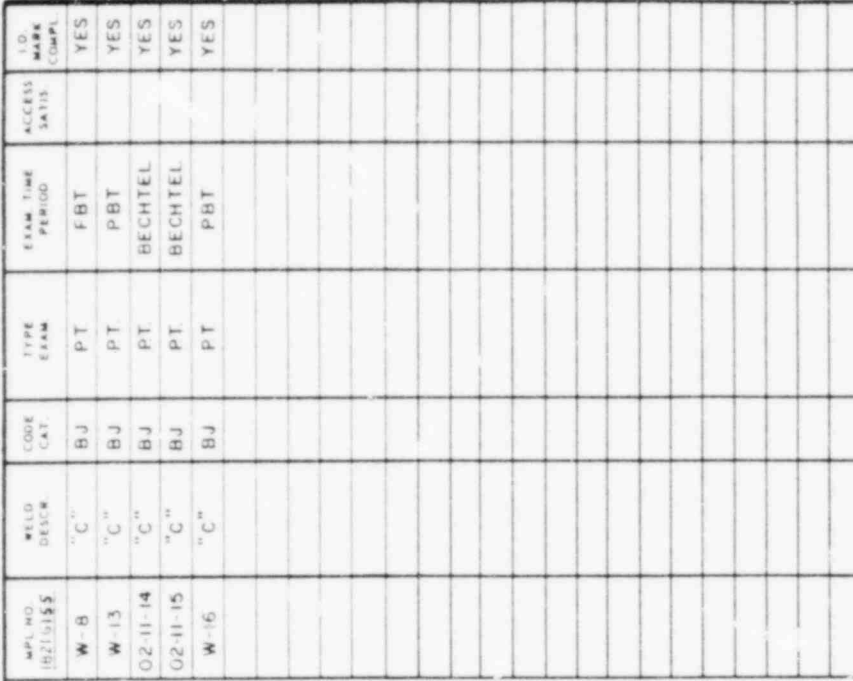
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OR MAINTENANCE

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PROJECT	MP&L GG-I (JB-I)	MADE BY	H. DILL	BASE - N50	BY NO
LOCATION	SD-II-I	COLL. OR BY		ATLANTA	2
SYSTEM	STEAM/RAIN	REF. ORG.			
LOOP #	CTMT	REF. NO.	M-1077A	SD-II	3
				PAGE of 1	

* GE BECHTEL INTERFACE WELD

50-0-1



GENERAL ELECTRIC

PROJECT	MP&L	GG-1	(JB-1)	ISSUED BY ROBERT DILL	DATE 05-03-88	ISSUE - NSO ALLEN	BY NO 4
SYSTEM	STEAM DRAIN	LOCATION	W-1014 50-11-1	NO. OF SHEETS M-1077A		SD - 11	PAGE 1 of 1
	LOOP A	AUX BLDG	PSK-5-025-C				

* GE BECHTEL INTERFACE WELD

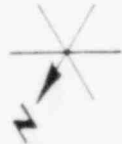
1-0-05



GENERAL ELECTRIC

SD-0-1

* GE déCIPHER INTERFACE WELD



INTERNET COPY WITH THIS MAGNET TAPE

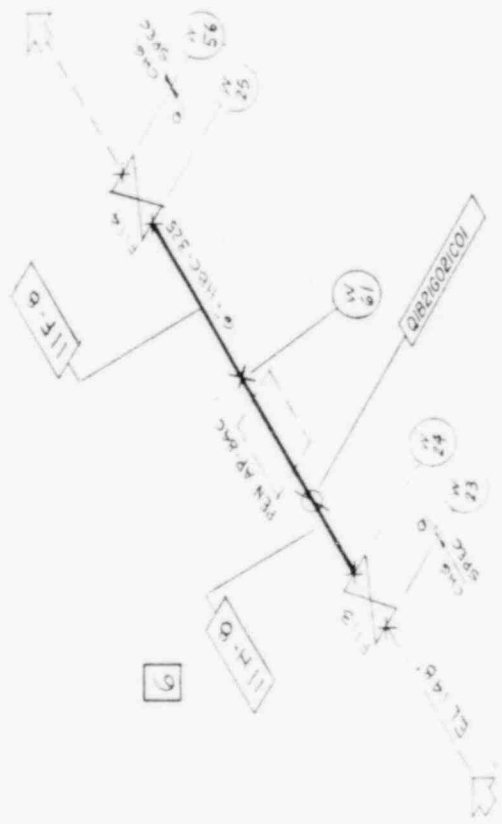
GENERAL ELECTRIC

PROJECT	MP8L	GG-1	(JB-1)
SYSTEM	STEAM DRAIN	LOCATION	CTMT
	LOOP C		
		REF ONE	50-11-1
			FSK S-02

SD-O-1

5

REF MPL NO
1821 G021



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GENERAL ELECTRIC		IBSE NSO	ATLANTA	SD-100
PROJECT	MPBL GG-1 (JB-1)	MADE BY	OL-18-79	DATE
SYSTEM	MAIN STEAM	REP NO	M-1077A	SK-M-1599
LOCATION	AUX BLDG	REP Dwg	M-1328D	PAGE 1 of 1
DRAWN				

SD-0-1

SP - SODIUM PENTABORATE SYSTEM - B2I

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OR MAINTENANCE

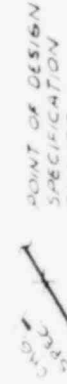
DRAWING

SYMBOLS

LETTER SYMBOLS

PIPING SYSTEMS

WELDING CONFIGURATION



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 - FLUOR & EQUIPMENT DRAINS

DW - DOMESTIC WATER

FC - FUEL POOL COOLING & CLEANUP

FD - FILTER DEMIN (FFCOD)

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 (FFCOD)

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 - SHPP POOL MAKE UP

SW - PLANT SERVICE WATER

WS - STANDBY SERVICE WATER

ABBREVIATIONS

AUX - AUXILIARY

BLDG - BUILDING

CL - CENTERLINE

CL - CLASS

COMP - COMPLETE & IMPROPER

CONT - CONTAINMENT

DN - DRYWELL

DNG - DRAWING

EL - ELEVATION

FLG - FLANGE

HD - HEAD

HX - HEAT EXCHANGER

ID - IDENTIFICATION

ISI - INSERVICE INSPECTION

MPL - MASTER PARTS LIST

N - NORTH & NOZZLE

PEN - PENETRATION

REV - REVISION

RPV - REACTOR VESSEL

RX - REACTOR

SCH - SCHEDULE

SMT - SHEET

SOL - SODOLET

STD - STANDARD

TMR - TURBINE

WOL - WELDOUT

YOL - YIELD

ZOL - ZONE

ZOL - ZONE

ZOL - ZONE

ZOL - ZONE

ZOL - ZONE

ZOL - ZONE

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REVISION	JOB NO.	TITLE	GENERAL ELECTRIC
NONE	JB-1	LEGEND FOR	NUCLEAR SERVICE OPERATION
CONTRACT NO.	360N74002	ISI ISOMETRIC	NUCLEAR SERVICE OPERATION
MADE FOR	N15-155 PPI	DRAWINGS	ATLANTA, GEORGIA
POWER & LIGHT		PROJECT	
		BRAND GULF	
		NUCLEAR PLANT	
		DRAWING NO.	35IN79B0000G
		SHEET NO.	1 OF 3

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 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

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 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 35IN80B0007)
SYSTEM LETTER SYMBOL

B. CLASS 3 SYSTEMS

EXAMPLE: CU-103

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

INFORMATION ONLY

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OR MAINTENANCE

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
			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 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 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

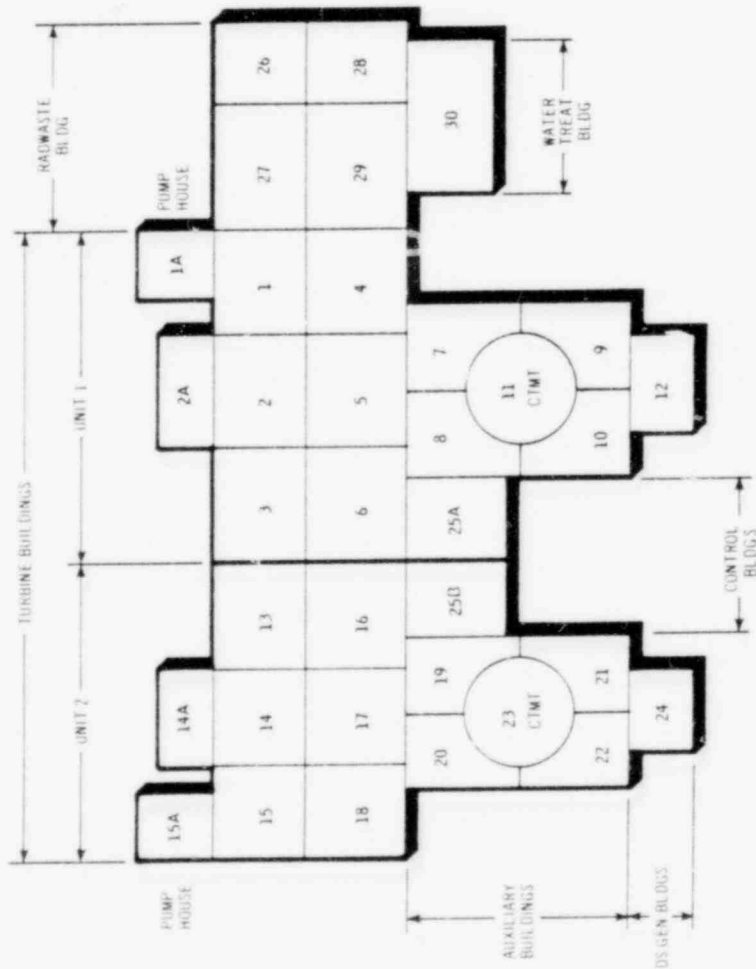
Z FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3. DESIGNED PER ANSI B31.1
N-STAMPING, SEISMIC ANALYSIS AND Q-LISTING ARE
NOT REQUIRED

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OR 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. 351N79B0006	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
			35IN80B0007
			REV
			A
			SHEET NO
			OF

INDEX TO ISOS FOR B-2I SYSTEM

SODIUM PENTABORATE

COMPOSITE: SP-0-1

ISOS: SP-II-1

SP-II-2

REV
A
A
A

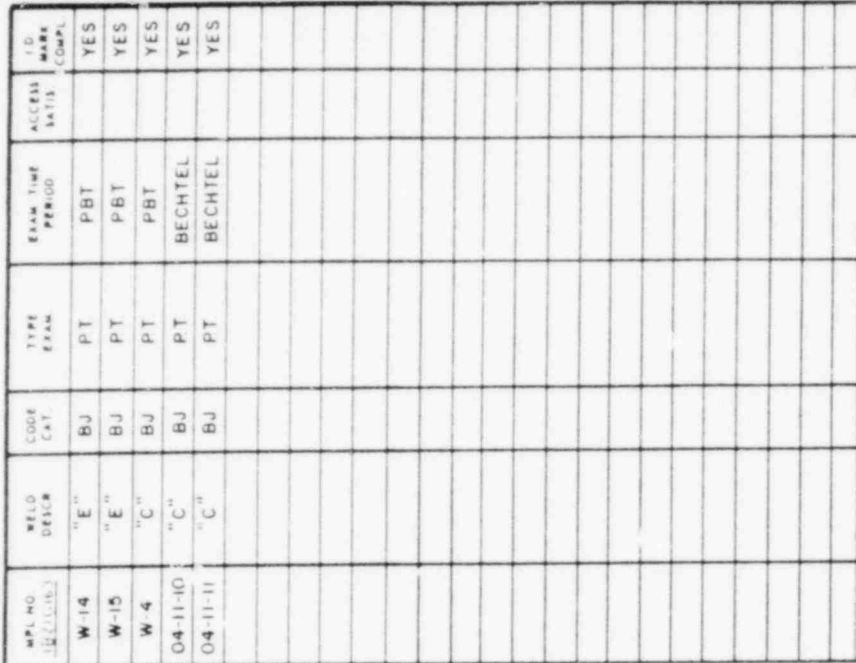
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REV	A
DATE	8/24/81

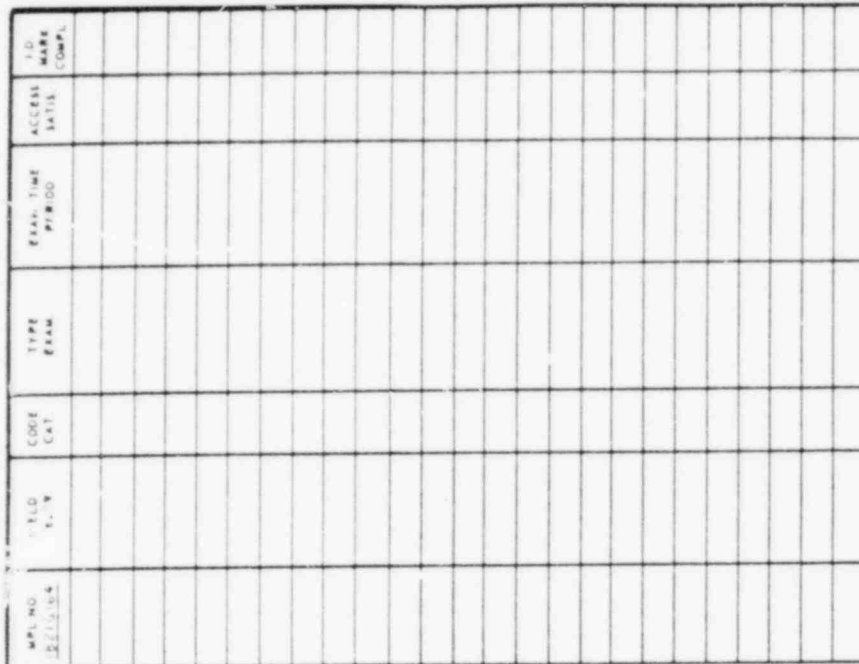


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* NOTE: INACCESSIBLE AREAS WITHIN CRD MECHANISMS ARE EXEMPT BY ARTICLE 17B(2)

PROJECT	MP8L	GG-1 (JB-I)		MADE BY R DILL 02-17-81	GENERAL ELECTRIC	7
		LOCATION SODIUM PENTABORATE	REF URG LC-II-13 LC-II-11 FSK-S-033-C			
				REF P&G	18SE-N50 ATLANTA	4
				M-1077B	SP-II	1
					PAGE 1081	



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GENERAL ELECTRIC

* GE/BECHTEL INTERFACE WELD
* NOTE INACCESSIBLE AREAS WITHIN
CRO MECHANISMS ARE EXEMPT
ARTICLE 1WB1220
SP-O-1

PROJECT	MP&L	GG-1 (JB-1)	REF. NO.	FSK-S-034-C
SYSTEM	SOD. #	LOCATION	UNLDR	MPV. CTMT
PENTABORATE				

MAILED BY ROBERT DILL 02-21-81	185E-NSO ATLANTA	2
REF NO	SP-11	PAGE 1 of 1
M-1077B		


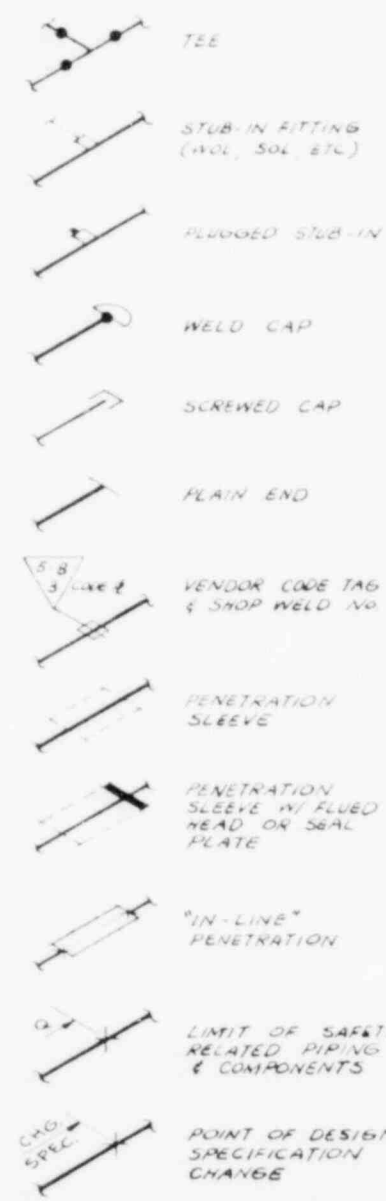
SP-0-1

RR — RECIRCULATION SYSTEM — B33

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3

DRAWING	SYMBOLS	LETTER SYMBOLS	SYMBOLS
 <p>SPPOOL I.D. NO. W/ VENDOR DNG NO IN PARENTHESES</p> <p>LINE SIZE & SPECIFICATION DESIGNATION</p> <p>SHOP WELD I.D. NO.</p> <p>FIELD WELD I.D. NO.</p> <p>LONGITUDINAL SEAM WELD I.D. NO.</p> <p>DWG CONTINUATION (ARROW POINTS IN DIRECTION OF FLOW)</p> <p>WELD COUNTED ON CONTINUATION SHEET AND SHOWN THIS SHEET FOR REFERENCE</p> <p>VALVE & I.D. NO. INDICATES PRESSURE RETAINING BOLTING</p> <p>CHECK VALVE & I.D. NO.</p> <p>FLG BUTTERFLY VALVE & I.D. NO.</p> <p>ELL</p> <p>REDUCER</p>	 <p>TEE</p> <p>STUB-IN FITTING (VOL, SOL ETC)</p> <p>PLUGGED STUB-IN</p> <p>WELD CAP</p> <p>SCREWED CAP</p> <p>PLAIN END</p> <p>VENDOR CODE TAG & SHOP WELD NO</p> <p>PENETRATION SLEEVE</p> <p>PENETRATION SLEEVE W/ FLUED HEAD OR SEAL PLATE</p> <p>"IN-LINE" PENETRATION</p> <p>LIMIT OF SAFETY RELATED PIPING & COMPONENTS</p> <p>POINT OF DESIGN SPECIFICATION CHANGE</p>	<p>PIPING SYSTEMS</p> <p>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 FC - FUEL POOL COOLING & CLEANUP FD - FILTER DEMIN (FPCCU) FW - FEEDWATER HP - HIGH PRESSURE CORE SPRAY IA - INSTRUMENT AIR</p> <p>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</p> <p>ABBREVIATIONS</p> <p>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 NOZZLE PEN - PENETRATION</p> <p>REV - REVISION RPV - REACTOR VESSEL RX - REACTOR SCH - SCHEDULE SHT - SHEET SOL - SOCKLE STD - STANDARD STM - STEAM TOL - THREADLET TURB - TURBINE WOL - WELDLET</p> <p>WELDING CONFIGURATION</p> <p>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 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</p> <p>HANGERS</p> <p>A - SNUBBER B - RIGID STRUT C - BOX OR GUIDE D - SPRING E - COMBINATION F - ANCHOR P - PWR</p> <p>INFORMATION ONLY NOT TO BE USED FOR DESIGN, FABRICATION, CONSTRUCTION OR MAINTENANCE</p> <p>ORIGINAL COPY WHEN THIS IMPRINT IN RED</p>	<p>GENERAL ELECTRIC</p> <p>NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV ATLANTA, GEORGIA</p> <p>DRAWING NO 35IN79B0006</p> <p>PROJECT GRAND GULF NUCLEAR PLANT</p> <p>REV A</p>

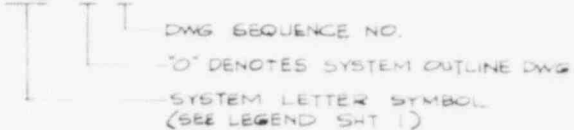
ISI EXAMINATION REQUIREMENTS

- 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 IWC-5000
- 7 ASME CLASS 2 AND 3 COMPONENTS EXEMPT FROM ANY ISI PER ASME SECTION XI

DWG NUMBERING SYSTEM

I. SYSTEM OUTLINE DRAWINGS (ISOMETRICS)

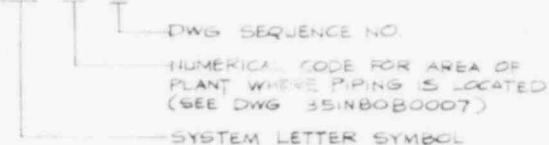
EXAMPLE: MS-0-1



II. WELD IDENTIFICATION DWGS. (ISOMETRICS)

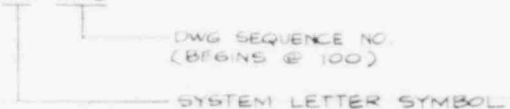
A. ASME CLASS 1 & 2 SYSTEMS

EXAMPLE: EW-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. 360N74002		PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO. 35IN79B0006	REV A
MADE FOR MISSISSIPPI POWER & LIGHT		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 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

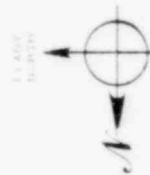
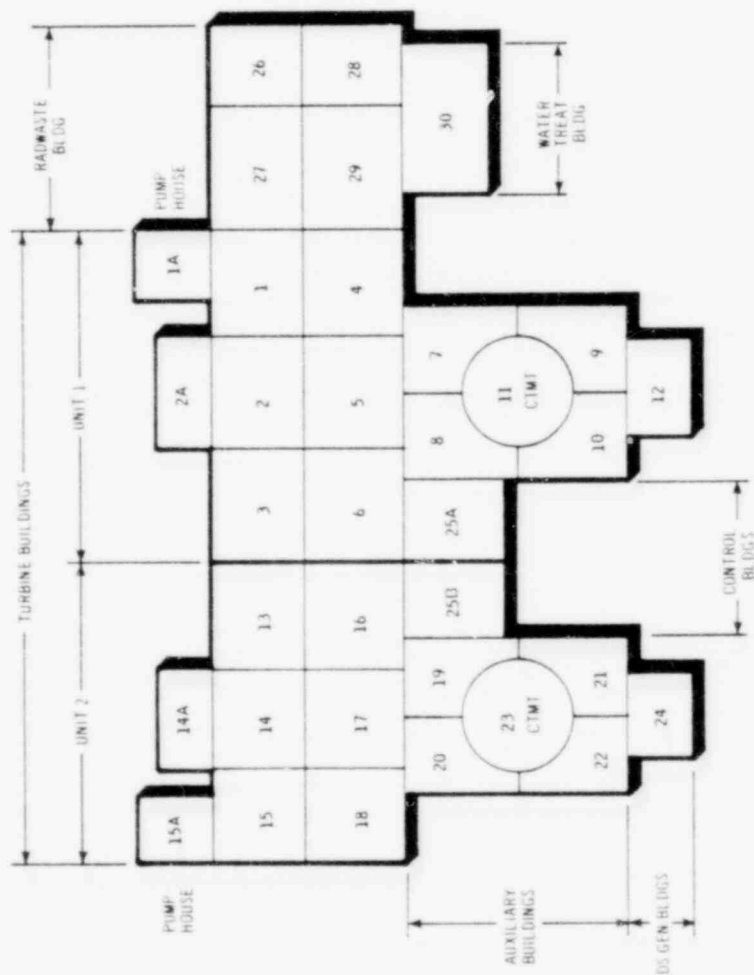
THIRD LETTER - APPLICABLE CODES

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. 351N79B0006	REV. A
MADE FOR MISSISSIPPI POWER & LIGHT CO.		SHEET NO. 3 of 3			



GRAND GULF NUCLEAR STATION UNITS 1 AND 2
PORT GULF, 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
CONTRACT NO. 36-074002	MADE FOR MISSISSIPPI POWER & LIGHT	PROJECT GRAND GULF NUCLEAR PLANT	DRAWING NO. 35IN8080007 REV A

INDEX TO ISOS FOR B-33 SYSTEM

COMPOSITE : RR-0-1	REV A	COMPOSITE: RR-0-2	REV A	COMPOSITE : RR-0-3	REV A
ISOS : RR-11-1	A	ISOS: RR-11-8	A	ISOS: RR-11-18	A
RR-11-2	A	RR-11-9	A	RR-11-19	A
RR-11-3	A	RR-11-10	A	RR-11-23	A
RR-11-4	A	RR-11-11	A	RR-11-24	A
RR-11-5	A	RR-11-12	A	RR-11-25	A
RR-11-6	A	RR-11-13	A		
RR-11-7	A	RR-11-14	A		
RR-11-16	A	RR-11-15	A		
RR-11-20	A	RR-11-17	A		
RR-11-21	A	RR-11-22	A		
RR-11-26	A				
RR-11-27	A				

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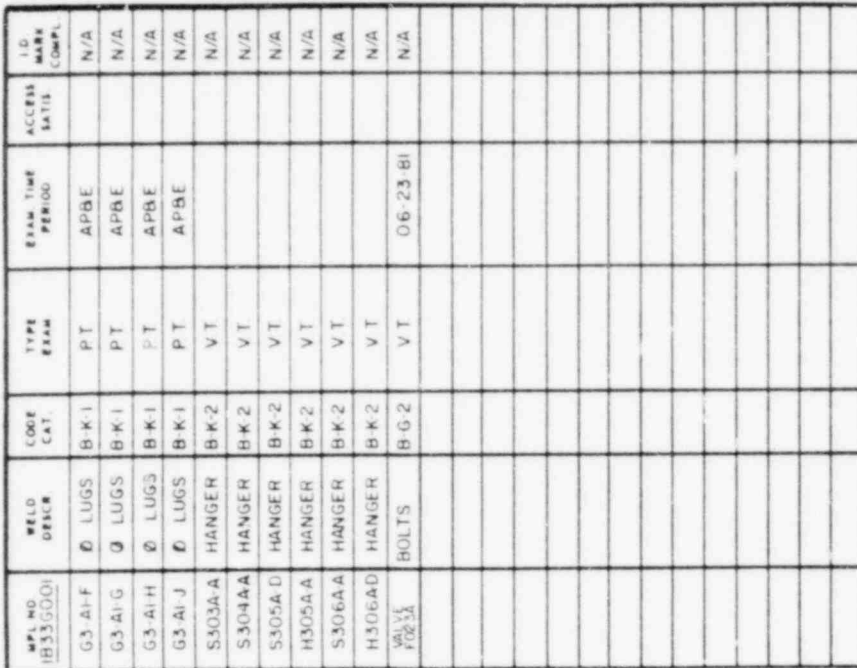
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REV A
DATE 12/24/8

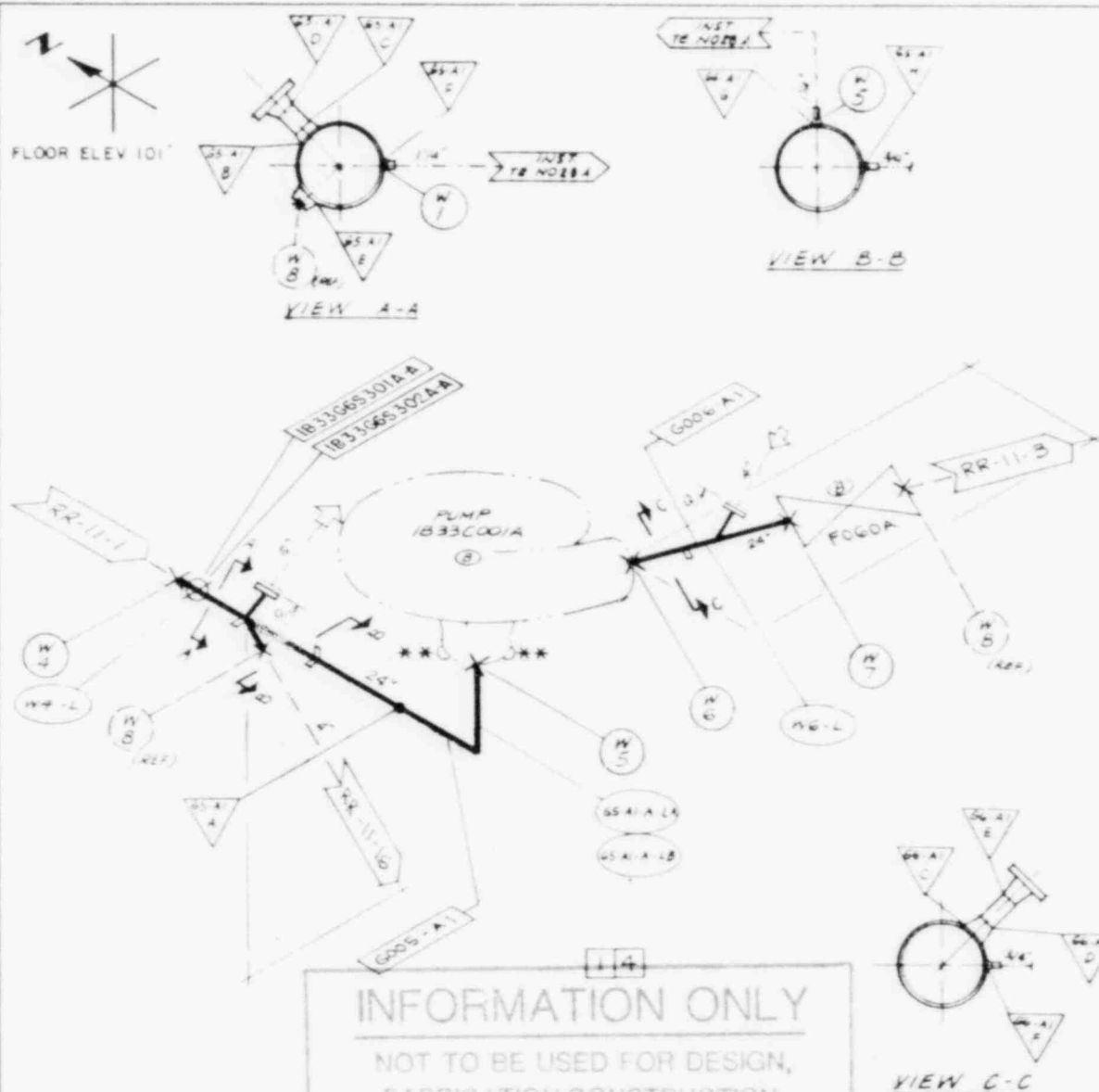
GENERAL ELECTRIC

PROJECT	SYSTEM	LOCATION	REP DESG	REP PNO	MADE BY	DATE - TIME	BY
MPBL	GG-1	(JB-1)			03/28/79	1455-1150	
RECIRC	CTMT		M 1356F		S GRAUS	ATLANTA	
LOOPA			M 1342A				
			767577				
					M 1078A	RR-0	
					SK M-1598A	PAGE 1 of 1	



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ORIGINAL COPY WHEN THIS IMPRINT IN RED	3	PROJECT MP8L	GG-1	(JB-1)	MADE BY G5-15-77 S GRAUS	MADE - NSO ATLANTA	7	4	GENERAL ELECTRIC
		SYSTEM RECIRC LOOP A	LOCATION DRY WELL	REF ORG 767L977	REF PHS M 1078 A	REF ORG NO RAG-11	7	4	
					SK M-1596	FRG-2 of 2			



MPL NR 1B33G001	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMP
W-4	"G"	BJ	UT	04-08-80		YES
W-4-L	"A"	BJ	UT	10-26-79		YES
G5-A1-B	"H"	BJ	UT	05-15-80		YES
G5-A1-C	"H"	BJ	UT	04-30-80		YES
G5-A1-D	"C"	BJ	UT	04-30-80		YES
G5-A1-E	"H"	BJ	UT	05-15-80		YES
G5-A1-A	"C"	BJ	UT	05-15-80		YES
G5-A1-A-LA	"A"	BJ	UT	11-02-79		YES
G5-A1-A-LB	"A"	BJ	UT	11-02-79		YES
W-5	"K"	BJ	UT	11-07-79		YES
W-6	"K"	BJ	UT	11-07-79		YES
G6-A1-C	"H"	BJ	UT	05-23-80		YES
G6-A1-D	"H"	BJ	UT	04-30-80		YES
G6-A1-E	"C"	BJ	UT	04-30-80		YES
W-6-L	"A"	BJ	UT	11-05-79		YES
W-7	"G"	BJ	UT	11-19-79		YES
PUMP 1B33C001A	BOLTS(16)	C-D	UT	03-17-81		YES
VALVE F060-A	BOLTS(60)	B-G-2	VT	06-11-81		YES
W-4	"G"	BJ	PT	PBT		YES
W-4-L	"A"	BJ	PT	APBE		YES
G5-A1-B	"H"	BJ	PT	APBE		YES
G5-A1-C	"H"	BJ	PT	APBE		YES
G5-A1-D	"C"	BJ	PT	APBE		YES
G5-A1-E	"H"	BJ	PT	APBE		YES
G5-A1-A	"C"	BJ	PT	APBE		YES
G5-A1-A-LA	"A"	BJ	PT	APBE		YES
G5-A1-A-LB	"A"	BJ	PT	APBE		YES
G5-A1-G	"P"	BJ	PT	APBE		YES
W-5	"P"	BJ	PT			YES
G5-A1-F	"H"	BJ	PT	APBE		YES
W-1	"P"	BJ	PT			YES

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MP&L	GG-1	(JB-1)	DATE 05-14-77	IBSE NSO ATLANTA	REV 2
SYSTEM RECIRC LOOP A	LOCATION DRYWELL	REF 64 DWS 767E977	REV P&ID M-1078A	DWG NO RR-11	SHT 2
			SK-M-1598	PAGE 1 of 2	

CAL STANDARD I.D. 21, 24, 26 ** PUMP LUGS 1, 4, 5, 6

RR-0-1



WFL NO.	WELD DESIG.	CODE CAT.	TYPE	BEAM TIME PERIOD	ACCESS DATE	I.D. MARK COMPL.
W-5	"K"	BJ	PT	PBT		YES
W-6	"K"	BJ	PT	PBT		YES
G6-AI-C	"H"	BJ	PT	APBE		YES
G6-AI-D	"H"	BJ	PT	APBE		YES
G6-AI-E	"C"	BJ	PT	APBE		YES
W6-L	"A"	BJ	PT	APBE		YES
W-7	"G"	BJ	PT	PBT		YES
S301A-A	HANGER	BK-2	VT			N/A
S302A-A	HANGER	BK-2	VT			N/A
S372A-A	HANGER	BK-2	VT			N/A
S373A-A	HANGER	BK-2	VT			N/A
S374A-A	HANGER	BK-2	VT			N/A
S375A-A	HANGER	BK-2	VT			N/A
B302A-D	HANGER	BK-2	VT			N/A
B301A-D	HANGER	BK-2	VT			N/A
S369A-A	HANGER	BK-2	VT			N/A
S371A-A	HANGER	BK-2	VT			N/A
S370A-A	HANGER	BK-2	VT			N/A
H302A-D	HANGER	BK-2	VT			N/A
H301A-D	HANGER	BK-2	VT			N/A
H303A-D	HANGER	BK-2	VT			N/A
H304A-D	HANGER	BK-2	VT			N/A
REL-1-A-A	PUMP LUGS	BK-2	PT	B-JPD		N/A

ELEV 100.7'

ELEV 109.3' - 108'

ELEV 121.9' - 124.5'

ELEV 139'

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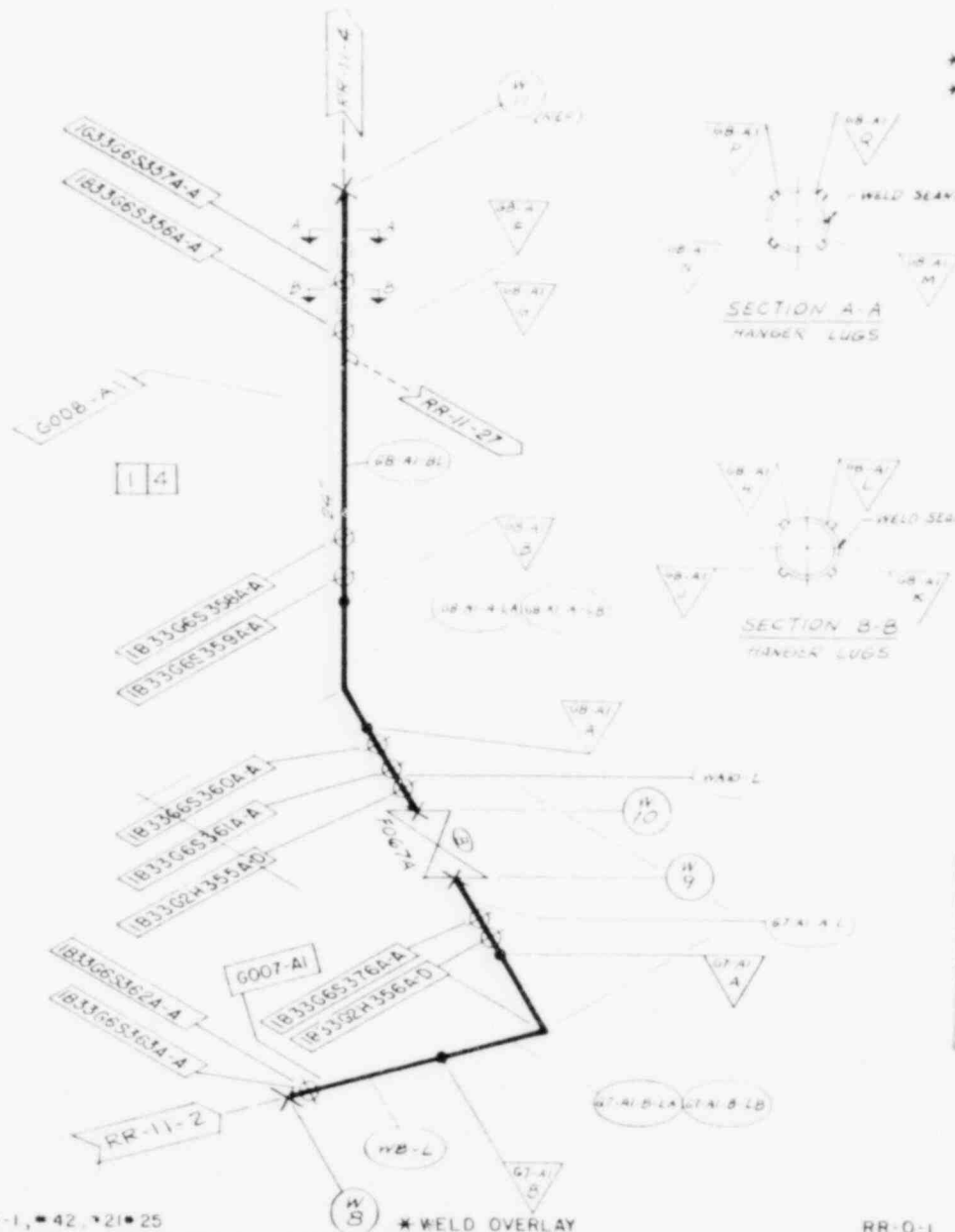
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PROJECT		MPBL GG-1 (JB-1)		GENERAL - ELECTRIC	
SYSTEM	LOCATION	REF DES	REF DES	DATE	BY
RECIRC.	DRYWELL	767E977	M-1078A	03-14-77	SS
LOOP A			RR-11	WSE-NSO ATLANTA	SS
			SK-M-1598	REF DES NO.	2
				PAGE 2 of 2	

* HANGERS LOCATED ON PUMP IB33C001A



FLOOR ELEV 101'



MPL NR	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS BASIS	I.D. MARK COMP
IB336001	W-B	"G"	BJ	UT	01-20-81	YES
W8-L	"A"	BJ	UT	01-20-81		YES
G7-A1-B	"C"	BJ	UT	11-02-79		YES
G7-A1-B-LA	"A"	BJ	UT	11-02-79		YES
G7-A1-B-LB	"A"	BJ	UT	03-03-80		YES
G7-A1-A	"C"	BJ	UT	04-01-80		YES
G7-A1-A-L	"A"	BJ	UT	01-08-81		YES
W-9	"G"	BJ	UT	01-08-81		YES
W-10	"G"	BJ	UT	04-02-80		YES
WA10-L	"A"	BJ	UT	03-31-80		YES
GB-A1-A	"C"	BJ	UT	03-31-80		YES
GB-A1-A-LA	"A"	BJ	UT	11-05-79		YES
GB-A1-A-LB	"A"	BJ	UT	11-02-79		YES
GB-A1-B	"C"	BJ	UT	02-27-80		YES
GB-A1-B-L	"A"	BJ	UT	03-28-80		YES
W-8	"G"	BJ	PT	PBT		YES
W8-L	"A"	BJ	PT	APBE		YES
G7-A1-B	"C"	BJ	PT	APBE		YES
G7-A1-B-LA	"A"	BJ	PT	APBE		YES
G7-A1-B-LB	"A"	BJ	PT	APBE		YES
G7-A1-A	"C"	BJ	PT	APBE		YES
G7-A1-A-L	"A"	BJ	PT	APBE		YES
W-9	"G"	BJ	PT	PBT		YES
W-10	"G"	BJ	PT	PBT		YES
WA10-L	"A"	BJ	PT	APBE		YES
GB-A1-A	"C"	BJ	PT	APBE		YES

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MPRL	GG-1 (JB-1)	DWN	IBSE NSO	REV	DATE
SYSTEM	LOCATION	REF 54 DWS	REF 54 ID	DWG NR	SHT
LOOP A	DRYWELL	767E977	M-1078A	RR-11	3
			SK-M-1538	PAGE 1 of 2	



WPL NO. IB33G001	WELD DESCR.	CODE CAT.	TYPE EXAM.	EXAM TIME PERIOD	ACCESS SATIS.	I.D. MARK COMPL.
GB-AI-A	"A"	BJ	PT	APBE		YES
GB-AI-A-B	"A"	BJ	PT	APBE		YES
GB-AI-B	"C"	BJ	PT	APBE		YES
GB-AI-B-L	"A"	BJ	PT	02-05-81		YES
S357A-A	HANGER	B-K-2	VT			N/A
S356A-A	HANGER	B-K-2	VT			N/A
S359A-A	HANGER	B-K-2	VT			N/A
S358A-A	HANGER	B-K-2	VT			N/A
S360A-A	HANGER	B-K-2	VT			N/A
S361A-A	HANGER	B-K-2	VT			N/A
H355A-D	HANGER	B-K-2	VT			N/A
S376A-A	HANGER	B-K-2	VT			N/A
H356A-D	HANGER	B-K-2	VT			N/A
S362A-A	HANGER	B-K-2	VT			N/A
S363A-A	HANGER	B-K-2	VT			N/A
VALVE FD67A	BOLTS(24)	B-G-2	VT	06-23-81		N/A
GB-AI-H	Ø LUGS	B-K-1	PT	APBE		N/A
GB-AI-J	Ø LUGS	B-K-1	PT	APBE		N/A
GB-AI-K	Ø LUGS	B-K-1	PT	APBE		N/A
GB-AI-L	Ø LUGS	B-K-1	PT	APBE		N/A
GB-AI-M	Ø LUGS	B-K-1	PT	APBE		N/A
GB-AI-N	Ø LUGS	B-K-1	PT	APBE		N/A
GB-AI-P	Ø LUGS	B-K-1	PT	APBE		N/A
GB-AI-Q	Ø LUGS	B-K-1	PT	APBE		N/A

INFORMATION ONLY

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ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT MP&L	GG-I (JB-I)	MADE BY S GRAUS	MSE - NSO ATLANTA	DATE 3-14-77
SYSTEM RECIRC LOOP A	LOCATION DRYWELL	REF DES 767E977	REF DES M-1077A SK-M-1598	DATE RR-II PAGE 2 of 2

3

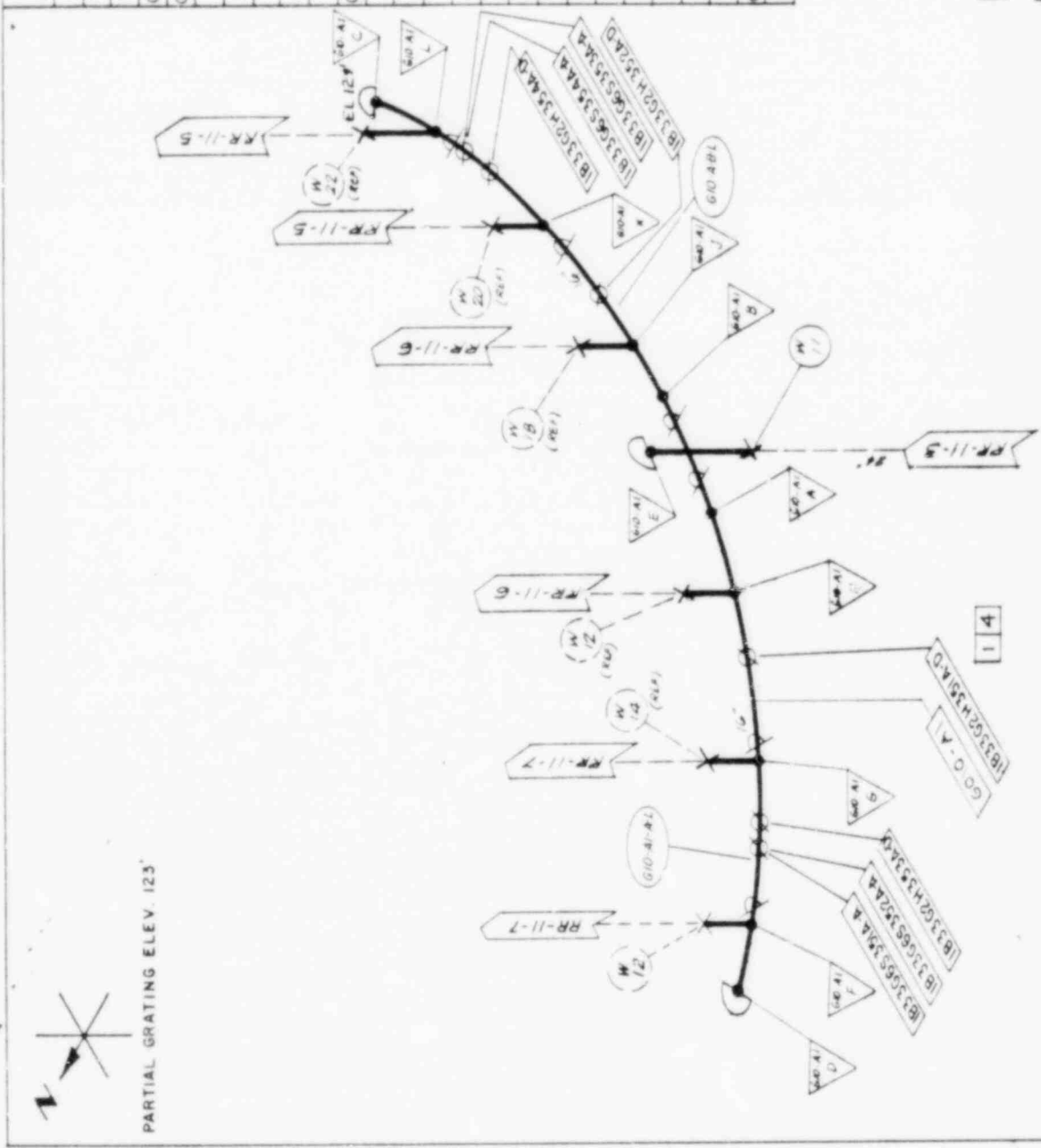
MPL NR	WELD DESCR	CODE CAT	TYPE BEAM	BEAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMP
IB33G001	"C"	BJ	UT	11-01-79		YES
GIO-A1-A	"N"	BJ	UT	10-31-79		YES
GIO-A1-H	"N"	BJ	UT	10-31-79		YES
GIO-A1-G	"N"	BJ	UT	10-31-79		YES
GIO-A1-L	"A"	BJ	UT	04-14-80		YES
GIO-A1-F	"N"	BJ	UT	10-31-79		YES
GIO-A1-D	"C"	BJ	UT	10-31-79		YES
GIO-A1-E	"C"	BJ	UT	03-28-80		YES
W-11	"C"	BJ	UT	04-01-80		YES
GIO-A1-B	"C"	BJ	UT	11-01-79		YES
GIO-A1-J	"N"	BJ	UT	04-10-80		YES
GIO-A1-B-L	"A"	BJ	UT	04-10-80		YES
GIO-A1-K	"N"	BJ	UT	11-01-79		YES
GIO-A1-L	"N"	BJ	UT	11-01-79		YES
GIO-A1-C	"C"	BJ	UT	11-01-79		YES
GIO-A1-A	"C"	BJ	PT	APBE		YES
GIO-A1-H	"N"	BJ	PT	APBE		YES
GIO-A1-G	"N"	BJ	FT	APBE		YES
GIO-A1-A-L	"A"	BJ	PT	APBE		YES
GIO-A1-F	"N"	BJ	PT	APBE		YES
GIO-A1-D	"C"	BJ	PT	APBE		YES
GIO-A1-E	"C"	BJ	PT	APBE		YES
W-11	"C"	BJ	PT	PBT		YES
GIO-A1-B	"C"	BJ	PT	APBE		YES
GIO-A1-J	"N"	BJ	PT	APBE		YES
GIO-A1-B-L	"A"	BJ	PT	APBE		YES
GIO-A1-K	"N"	BJ	PT	APBE		YES

INFORMATION ONLY

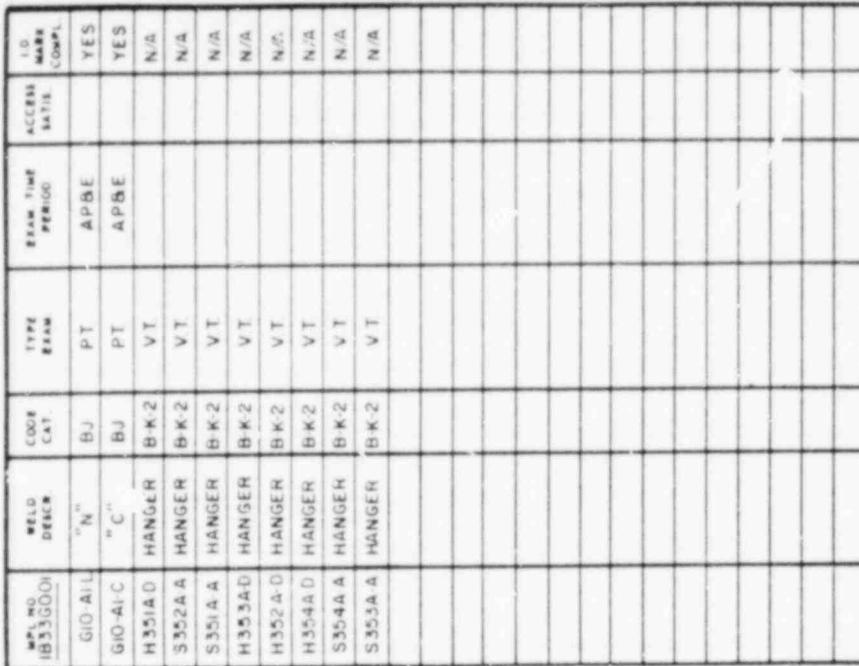
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CIVIL WORKS

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MPBL	GG-1	(JB-1)	IBSE NSO
SYSTEM RECIRC LOOP A	LOCATION DRYWELL	REF 64 DWS 767E977	ATLANTA DWS. NR RR-II PAGE 1 of 2

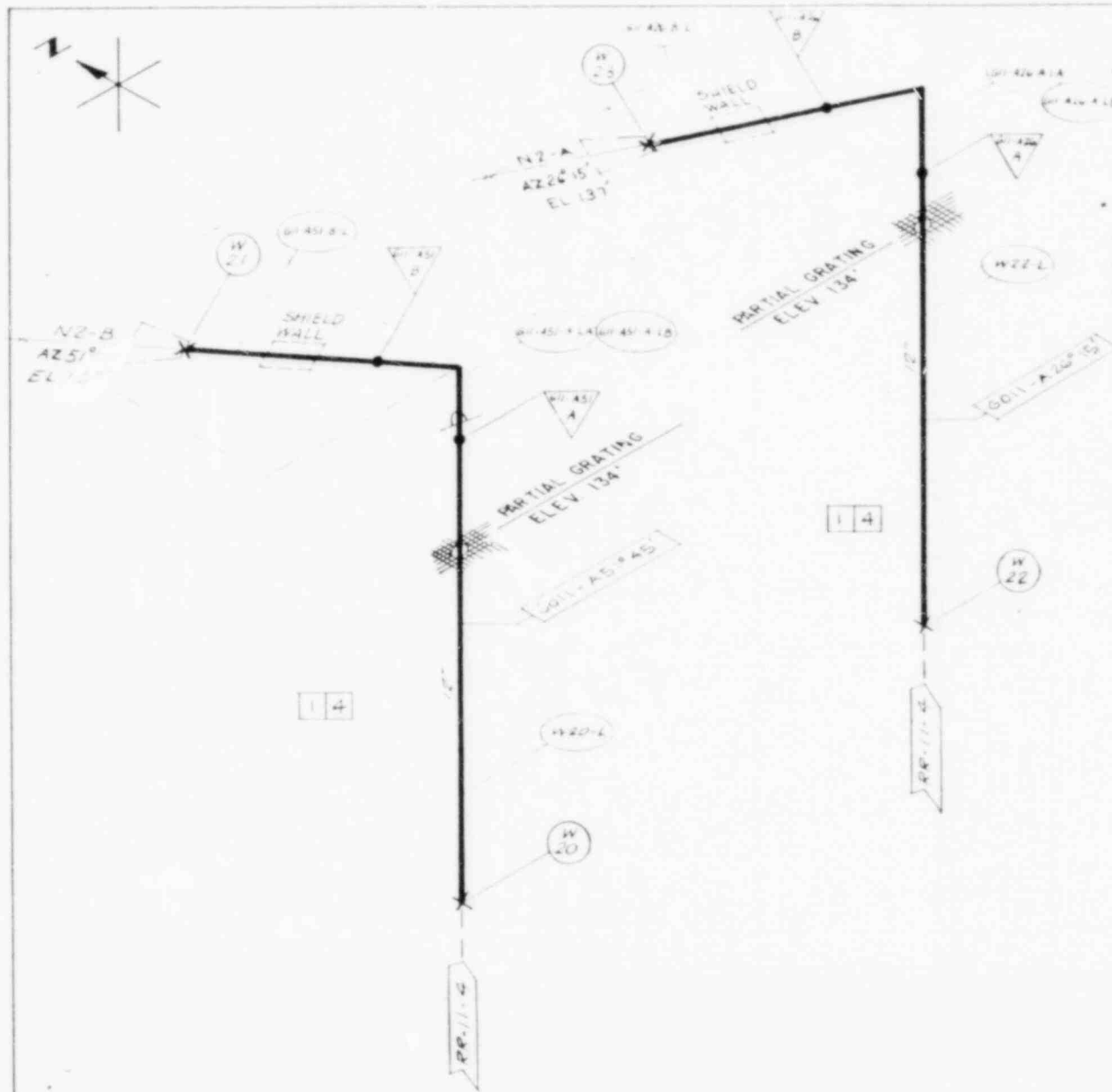


14



GENERAL ELECTRIC

PROJECT	MPBL GG-1 (JB-1)	MADE BY	MMSE-NISO
SYSTEM	REFIRC	REP FOR	101 TON NO.
LOOPA	DRYWELL	REP FOR	RR-11
		SKM: 15:B	PAGE 2 of 2



MPL NR	WELD	CODE	TYPE	EXAM	EXAM	ACCRS	10
IB 33600	DESCR	CAT	EXAM	PERIOD	BATH	MARK	COMP
W-20	"N"	BJ	UT	08-20-80			YES
W-20-L	"A"	BJ	UT	08-20-80			YES
GII-A5I-A	"C"	BJ	UT	03-25-80			YES
GII-A5I-A-L	"A"	BJ	UT	03-25-80			YES
GII-A5I-A-LB	"A"	BJ	UT	03-25-80			YES
GII-A5I-B	"C"	BJ	UT	03-25-80			YES
GII-A5I-B-L	"A"	BJ	UT	08-25-80			YES
W-21	"D"	BJ	UT	08-25-80			YES
W-22	"N"	BJ	UT	08-20-80			YES
W-22-L	"A"	BJ	UT	08-20-80			YES
GII-A26-A	"C"	BJ	UT	03-24-80			YES
GII-A26-A-L	"A"	BJ	UT	03-24-80			YES
GII-A26-A-LB	"A"	BJ	UT	03-24-80			YES
GII-A26-B	"C"	BJ	UT	03-24-80			YES
GII-A26-B-L	"A"	BJ	UT	08-25-80			YES
W-23	"D"	BJ	UT	08-25-80			YES
W-20	"N"	BJ	PT	PBT			YES
W-20-L	"A"	BJ	PT	APBE			YES
GII-A5I-A	"C"	BJ	PT	APBE			YES
GII-A5I-A-L	"A"	BJ	PT	APBE			YES
GII-A5I-A-LB	"A"	BJ	PT	APBE			YES
GII-A5I-B	"C"	BJ	PT	APBE			YES
GII-A5I-B-L	"A"	BJ	PT	APBE			YES
W-21	"D"	BJ	PT	PBT			YES
W-22	"N"	BJ	PT	PBT			YES
W-22-L	"A"	B.	PT	APBE			YES

INFORMATION ONLY

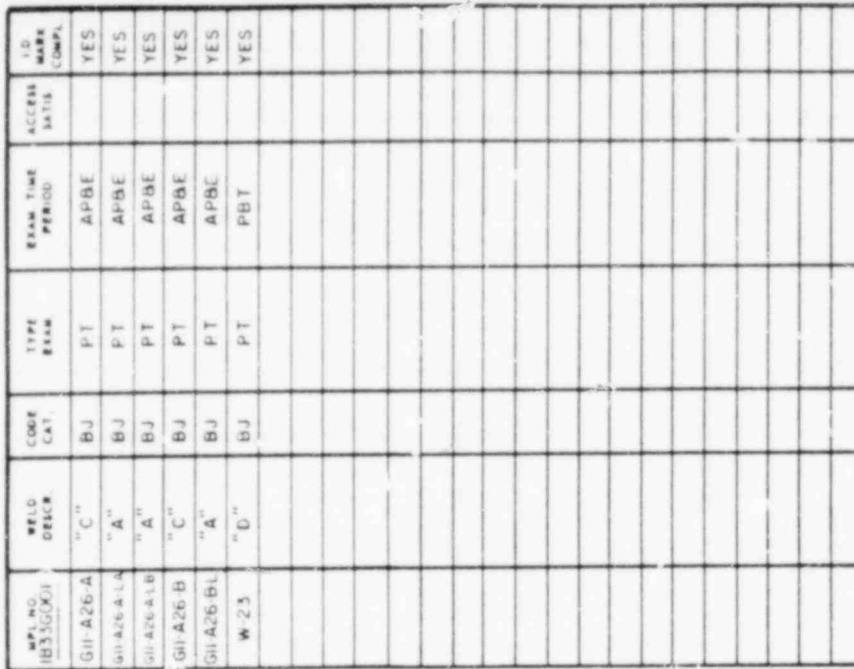
NOT TO BE USED FOR CONSTRUCTION

ORIGINAL COPY WHEN THIS IMPRINT IN RED

MP&L	GG-1	(JB-1)	DATE	IBSE NSO
SYSTEM	LOCATION	REF. GE. DRG.	DATE	ATLANTA
RECIRC.	DRYWELL	767E977	05-15-77	RR-11
LOOP A			S GRAUS	
			M-1078A	
			SK-M-1598	PAGE 1 of 2

CAL STANDARD I.D. #23, #43 * WELD OVERLAY

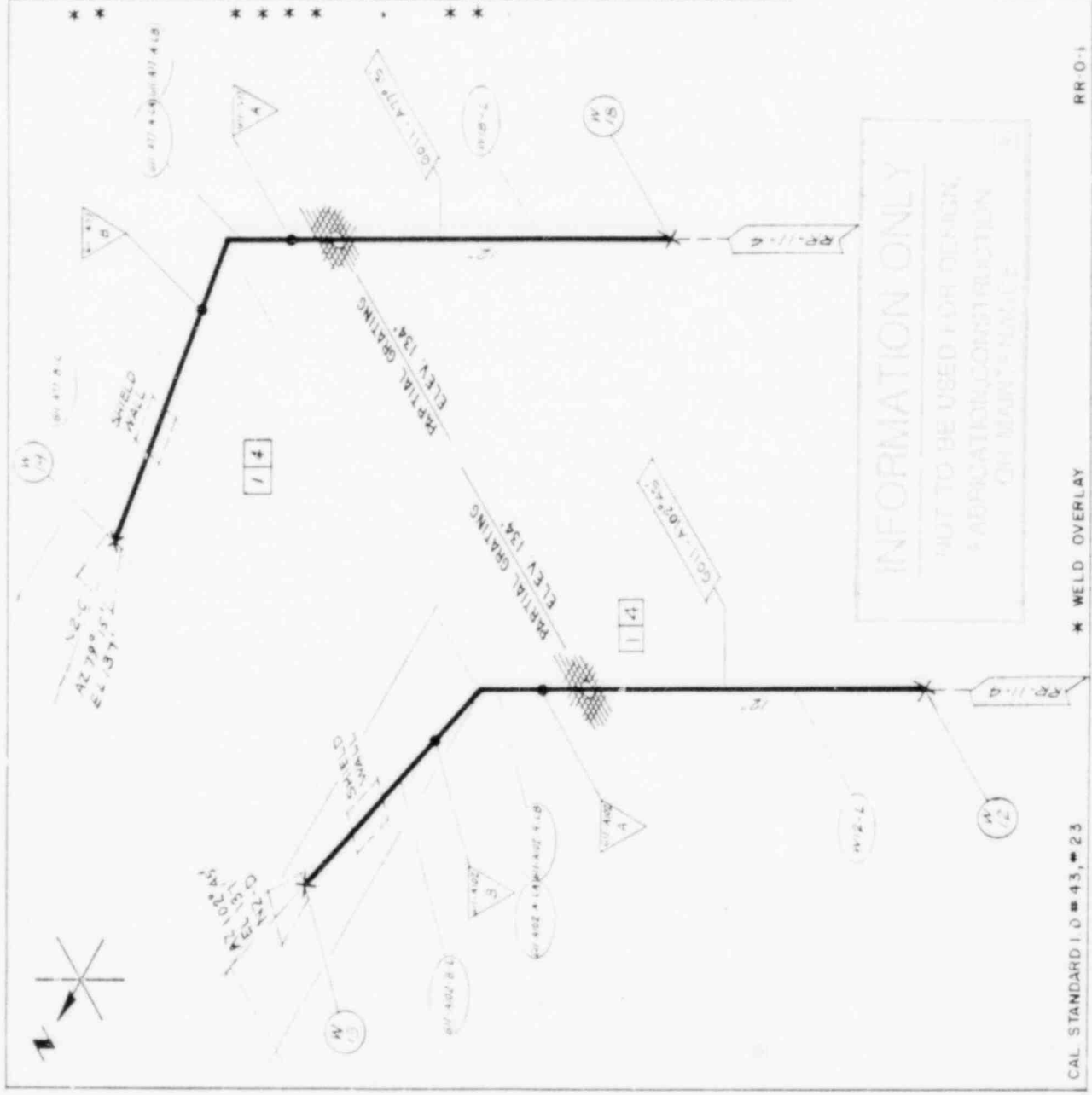
RR-G-1



GENERAL ELECTRIC

PROJECT	MPBL	GG-1	(JB-1)	MADE BY G. A. 77 S. GRAUS	ISSUE - NSO ATLANTA	5
SYSTEM	RECIRC LOOP A	LOCATION DRYWELL	REF DWS 767E977	REF PID M-1078A SK M-159B	REF NO. RR-11	PAGE 2 of 2

RR-O-1



MPL NO	WELD	CODE	TYPE	EXAM	PERIOD	ACCESS	ID
IB330001							
W-12	"N"	BJ	UT	UT	08-20-80	SATIS	YES
W-12-L	"A"	BJ	UT	UT	08-20-80		YES
GH-A102-A	"C"	BJ	UT	UT	03-25-80		YES
GH-A102-A-L	"A"	BJ	UT	UT	03-25-80		YES
GH-A102-A-LB	"A"	BJ	UT	UT	03-25-80		YES
GH-A102-B	"C"	BJ	UT	UT	08-25-80		YES
GH-A102-BL	"A"	BJ	UT	UT	08-25-80		YES
W-13	"D"	BJ	UT	UT	08-25-80		YES
W-18	"N"	BJ	UT	UT	08-20-80		YES
W-18-L	"A"	BJ	UT	UT	08-20-80		YES
GH-A77-A	"C"	BJ	UT	UT	03-25-80		YES
GH-A77-A-L	"A"	BJ	UT	UT	03-25-80		YES
GH-A77-A-LB	"A"	BJ	UT	UT	03-25-80		YES
GH-A77-B	"C"	BJ	UT	UT	03-25-80		YES
GH-A77-BL	"A"	BJ	UT	UT	08-25-80		YES
W-19	"D"	BJ	UT	UT	08-25-80		YES
W-12	"N"	BJ	PT	PT	PBT		YES
W-12-L	"A"	BJ	PT	PT	APBE		YES
GH-A102-A	"C"	BJ	PT	PT	APBE		YES
GH-A102-A-L	"A"	BJ	PT	PT	APBE		YES
GH-A102-A-LB	"A"	BJ	PT	PT	APBE		YES
GH-A102-B	"C"	BJ	PT	PT	APBE		YES
GH-A102-BL	"A"	BJ	PT	PT	APBE		YES
W-13	"D"	BJ	PT	PT	PBT		YES
W-18	"N"	BJ	PT	PT	PBT		YES
W-18-L	"A"	BJ	PT	PT	APBE		YES
GH-A77-A	"C"	BJ	PT	PT	APBE		YES

ORIGINAL COPY WHEN THIS IMPRINT IN RED

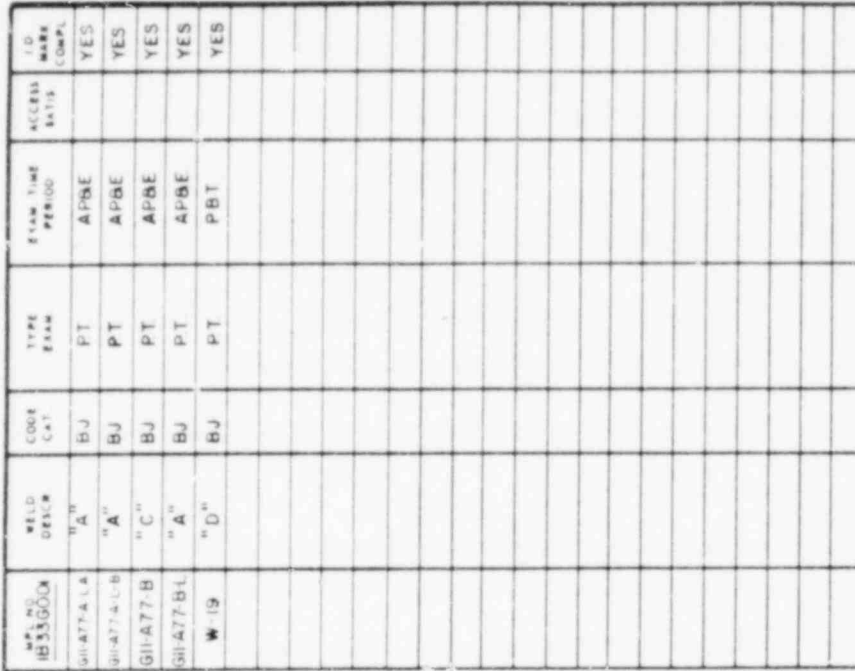
DATE	BY	DATE	BY
10/24/80	2	10/24/80	2
DATE	BY	DATE	BY
10/24/80	2	10/24/80	2

MPBL	GG-1	(JB-1)	DWN	S GRAUS	IBSE NSO
SYSTEM	LOCATION	REF CA DWS	REF PAID	DWG NO	ATLANTA
PECIRC	DRYWELL	767E977	M-1078A	RR-11	
LOOP A			SK-M-1598	PAGE 1 of 2	

CAL STANDARD I.D. #43, #23

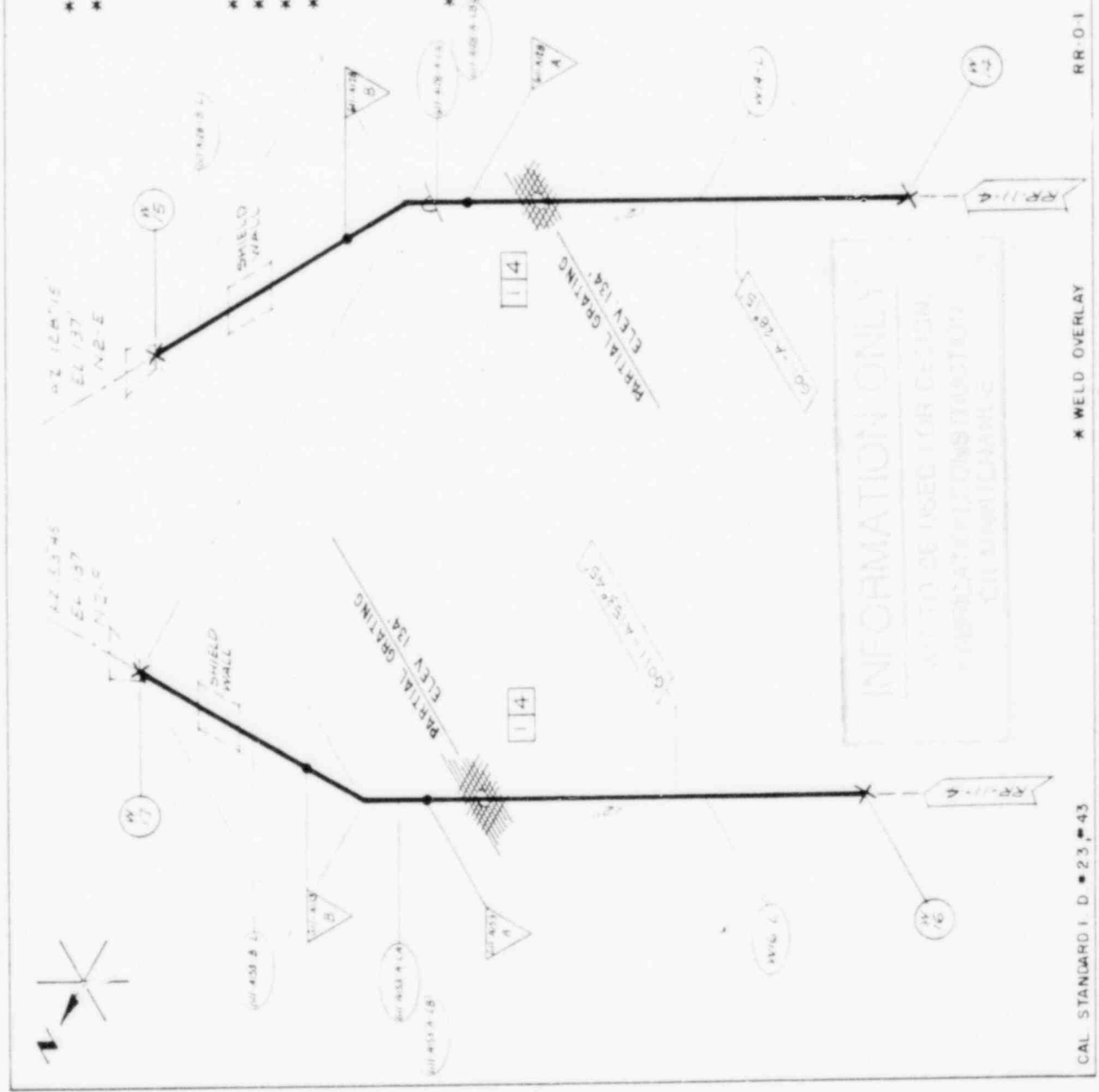
* WELD OVERLAY

RR 0-1



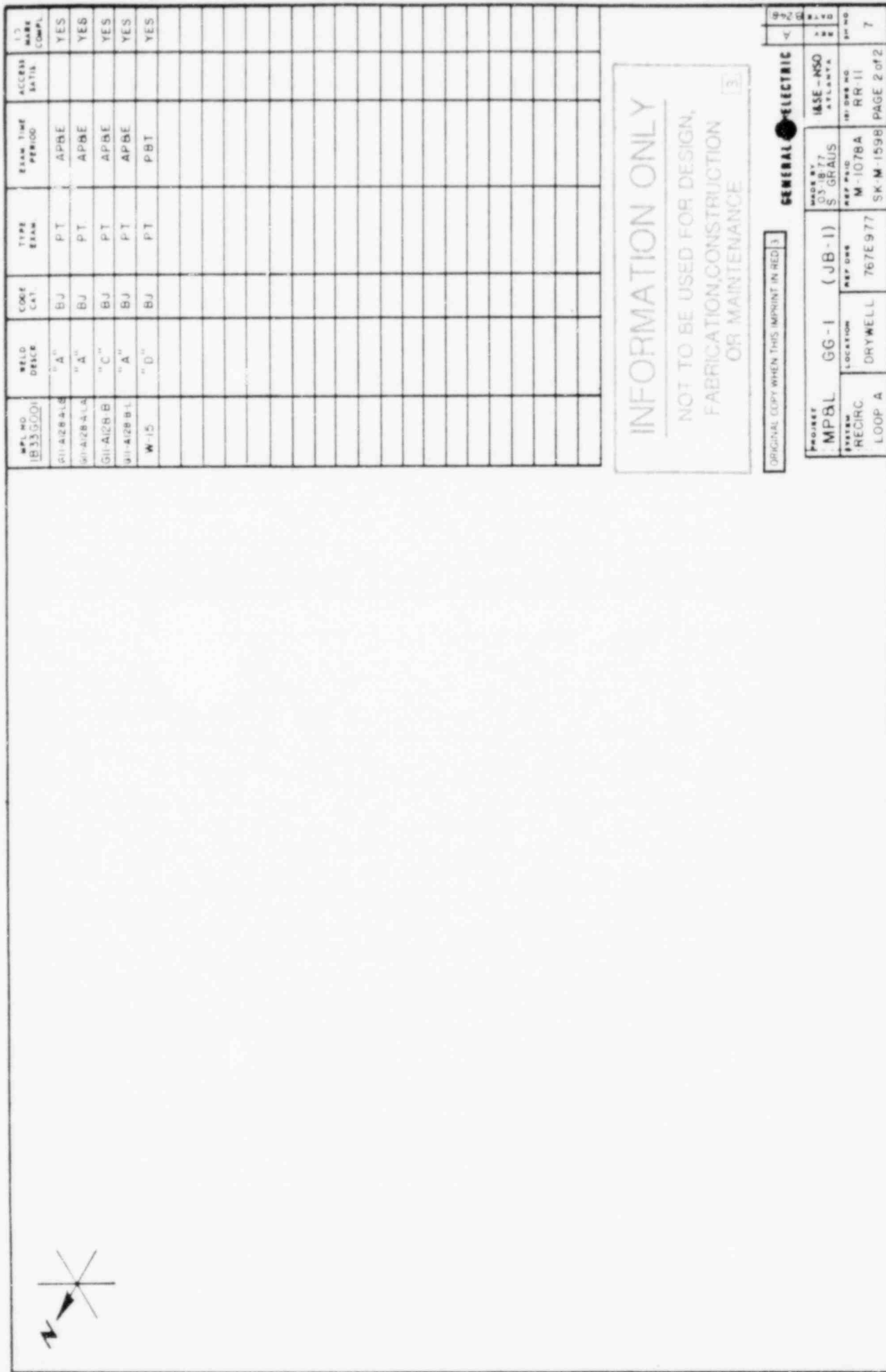
PROJECT MPBL	GG-1 (JB-1)		MADE IN S. GRAUS	WASE-HSO ATTENTION	GENERAL ELECTRIC	PAGE 2 of 2
	SYSTEM RECIRC	LOCATION DRYWELL	REF. ORG. 767E977	IN. ORDER NO. M-10784 RR-II SK-M-1598		

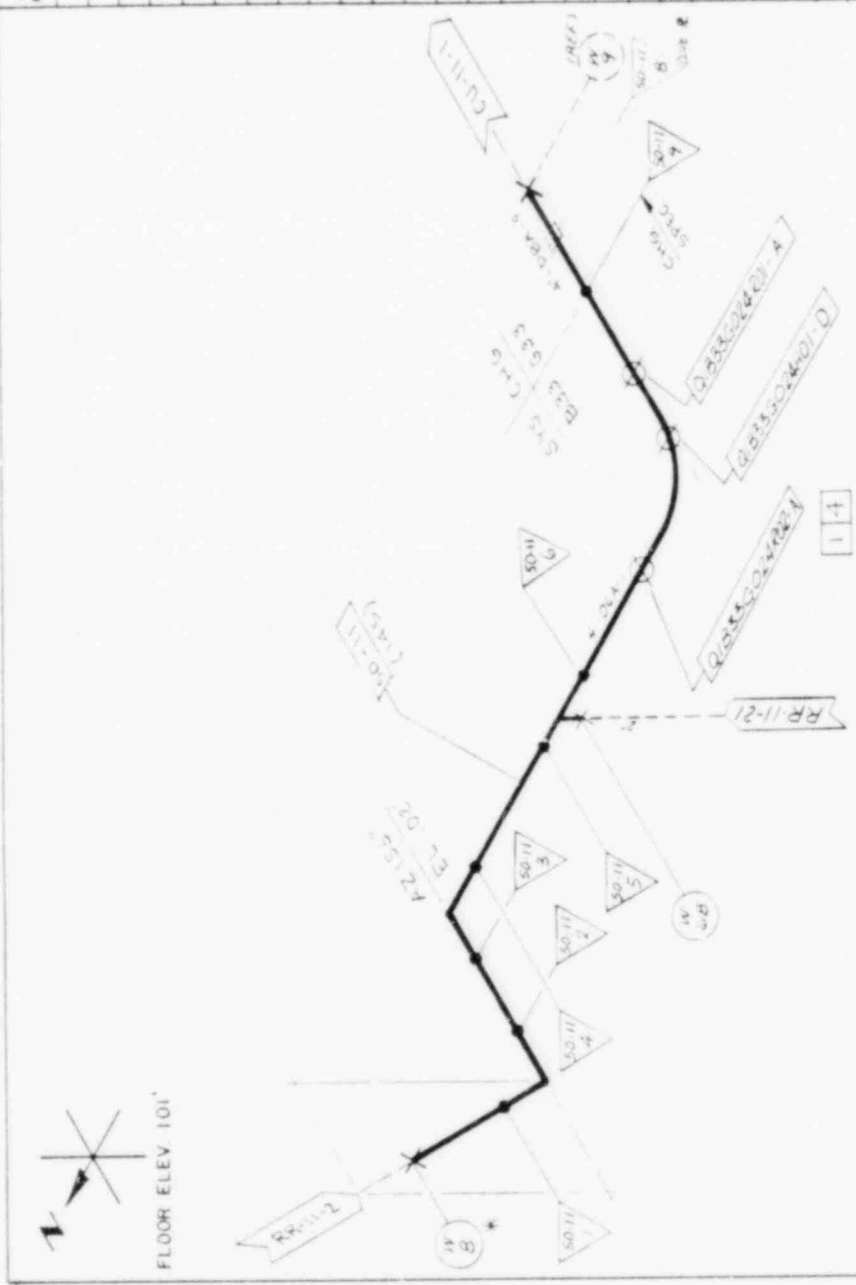
MAPL N° (B33600)	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATS	CD MARK COMP
W-16	"N"	BJ	UT	08-21-80		YES
W-16-L	"A"	BJ	UT	08-21-80		YES
GII-A153 A	"C"	BJ	UT	03-26-80		YES
GII-A153 A-B	"A"	BJ	UT	03-26-80		YES
GII-A153 A-L	"A"	BJ	UT	03-26-80		YES
GII-A153 B	"C"	BJ	UT	03-26-80		YES
GII-A153 B-L	"A"	BJ	UT	08-22-80		YES
W-17	"D"	BJ	UT	08-22-80		YES
W-14	"N"	BJ	UT	08-21-80		YES
W-14-L	"A"	BJ	UT	08-21-80		YES
GII-A128 A	"C"	BJ	UT	03-26-80		YES
GII-A128 A-B	"A"	BJ	UT	03-26-80		YES
GII-A128 A-L	"A"	BJ	UT	03-26-80		YES
GII-A128 B	"C"	BJ	UT	03-26-80		YES
GII-A128 B-L	"A"	BJ	UT	08-22-80		YES
W-15	"D"	BJ	UT	08-22-80		YES
W-16	"N"	BJ	PT	PBT		YES
W-16-L	"A"	BJ	PT	APBE		YES
GII-A153 A	"C"	BJ	PT	APBE		YES
GII-A153 A-B	"A"	BJ	PT	APBE		YES
GII-A153 A-L	"A"	BJ	PT	APBE		YES
GII-A153 B	"C"	BJ	PT	APBE		YES
GII-A153 B-L	"A"	BJ	PT	APBE		YES
W-17	"D"	BJ	PT	PBT		YES
W-14	"N"	BJ	PT	PBT		YES
W-14-L	"A"	BJ	PT	APBE		YES
GII-A128 A	"C"	BJ	PT	APBE		YES



ORIGINAL COPY WHEN THIS IMPRINT IN RED

MPBL	GG-1	(JB-1)	IBSE NSO	ATLANTA	DATE
SYSTEM	RECIRC	LOOP A	REF. PAID	RR-11	7
LOCATION	DRYWELL	767E977	SK M-1598	PAGE 1 of 2	





MPL NR	WELD	COOR	TYPE	EXAM	EXAM TIME	ACCESS	ID
IDB5024	DESCR	CAT			PERIOD	STATUS	MARK
W-8	"H"	BJ	UT		08-04-80		YES
50-11-1	"C"	BJ	UT		08-04-80		YES
50-11-2	"C"	BJ	UT		06-28-80		YES
50-11-3	"C"	BJ	UT		06-28-80		YES
50-11-4	"C"	BJ	UT		06-28-80		YES
50-11-5	"C"	BJ	UT		06-28-80		YES
W-6B	"C"	BJ	UT		08-26-80		YES
50-11-6	"C"	BJ	UT		06-28-80		YES
50-11-9	"E"	BJ	UT		06-28-80		YES
W-8	"H"	BJ	PT		PBT		YES
50-11-1	"C"	BJ	PT		APBE		YES
50-11-2	"C"	BJ	PT		APBE		YES
50-11-3	"C"	BJ	PT		APBE		YES
50-11-4	"C"	BJ	PT		APBE		YES
50-11-5	"C"	BJ	PT		APBE		YES
W-6B	"C"	BJ	PT		PBT		YES
50-11-6	"C"	BJ	PT		APBE		YES
50-11-9	"E"	BJ	PT		APBE		YES
R02-A	HANGER	BK-2	VT				N/A
H01-D	HANGER	BK-2	VT				N/A
R01-A	HANGER	BK-2	VT				N/A

ORIGINAL COPY WHEN THIS MINOR IN RED

MP&L	GG-1	(JB-1)	DWN	IRSE	NSO
SYSTEM	LOCATION	DRF	SGRAUS	ATLANTA	
RECIRC	DRYWELL	M-1342A	RR-11	RR-11	
RWCU	SUCU		SK-M-1598	PAGE 1 of 1	16

CAL STANDARD I.D. 3, 1, 48, 49 * GE RECHTEL INTERFACE WELD

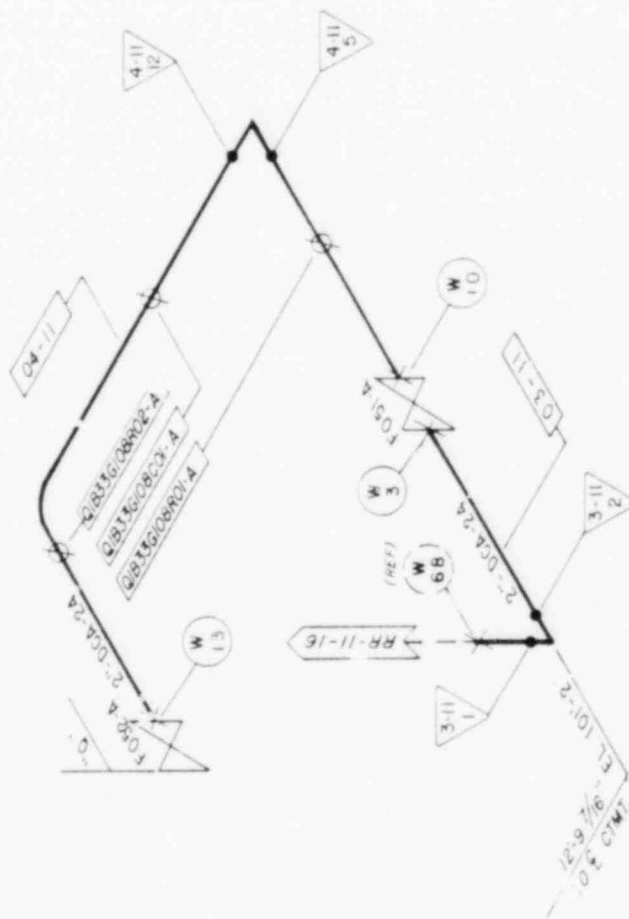
RR 0-1

[illegible]

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

LINE NO.	W THKNS.
4" HBB-III	237"

RR-O-1

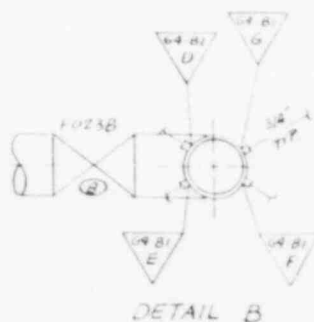


GENERAL ELECTRIC

PROJECT	MPBL GG-1 (JB-1)		MADE BY	DATE
SYSTEM	RECIRC.	LOCATION	REP. NO.	REV. NO.
RAWCU SUC.	CTMT.	REP. NO.	RR-11	21
		FSK-S-00B	M-1078A	
			181 DMB NO.	
			RR-11	
			MADE-NISO	
			SYSTEM	
			PAGE 1 of 1	

RR-O-1

FLOOR ELEV. 101'



MPL NR	WELD	CODE	TYPE	EXAM TIME	ACCESS	ID
IB33G001	DESCR	CAT	EXAM	PERIOD	STATUS	MARK COMP
* W-24	"D"	BJ	UT	01-22-81		YES
* W24-L	"A"	BJ	UT	01-22-81		YES
G2-B1-A	"C"	BJ	UT	04-29-81		YES
G2-B1-A-LA	"A"	BJ	UT	04-25-80		YES
G2-B1-A-LB	"A"	BJ	UT	04-25-80		YES
G2-B1-B	"C"	BJ	UT	04-29-80		YES
* G2-B1-B-L	"A"	BJ	UT	01-20-81		YES
* W-25	"E"	BJ	UT	01-20-81		YES
* W25-L	"A"	BJ	UT	01-20-81		YES
* G4-B1-C	"C"	BJ	UT	01-13-81		YES
* G4-B1-C-L	"A"	BJ	UT	01-21-81		YES
G4-B1-B	"C"	BJ	UT	04-25-80		YES
G4-B1-B-L	"A"	BJ	UT	10-29-79		YES
G4-B1-A	"C"	BJ	UT	04-25-80		YES
* G4-B1-A-LA	"A"	BJ	UT	01-13-81		YES
* G4-B1-A-LB	"A"	BJ	UT	01-13-81		YES
W-26	"G"	BJ	UT	01-13-81		YES
W-24	"D"	BJ	PT	PBT		YES
W24-L	"A"	BJ	PT	AP&E		YES
G2-B1-A	"C"	BJ	PT	AP&E		YES
G2-B1-A-LA	"A"	BJ	PT	AP&E		YES
G2-B1-A-LB	"A"	BJ	PT	AP&E		YES
G2-B1-B	"C"	BJ	PT	AP&E		YES
G2-B1-B-L	"A"	BJ	PT	AP&E		YES
W-25	"E"	BJ	PT	PBT		YES
W25-L	"A"	BJ	PT	02-04-81		YES
FO23-B	BOLTS()	B-G-2	VT	06-24-81		N/A

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MP&L	GG-1	(JB-1)	DWN 05-21-77 S GRAUS	IBSE N6S ATLANTA
SYSTEM RECIRC LOOP B	LOCATION DRYWELL	REF. GE DWS 767E977	REF. P&ID M-107B	DWG. NR RR-11
			SK-M-1598	PAGE 1 of 2

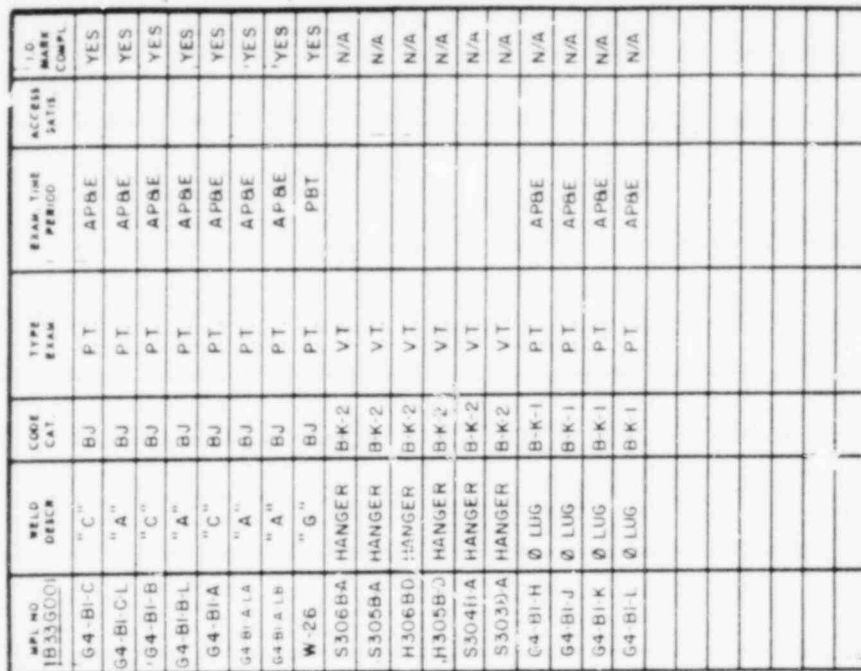
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CAL STANDARD 1D=42-1, 42, 26

* WELD OVERLAY

RR-02

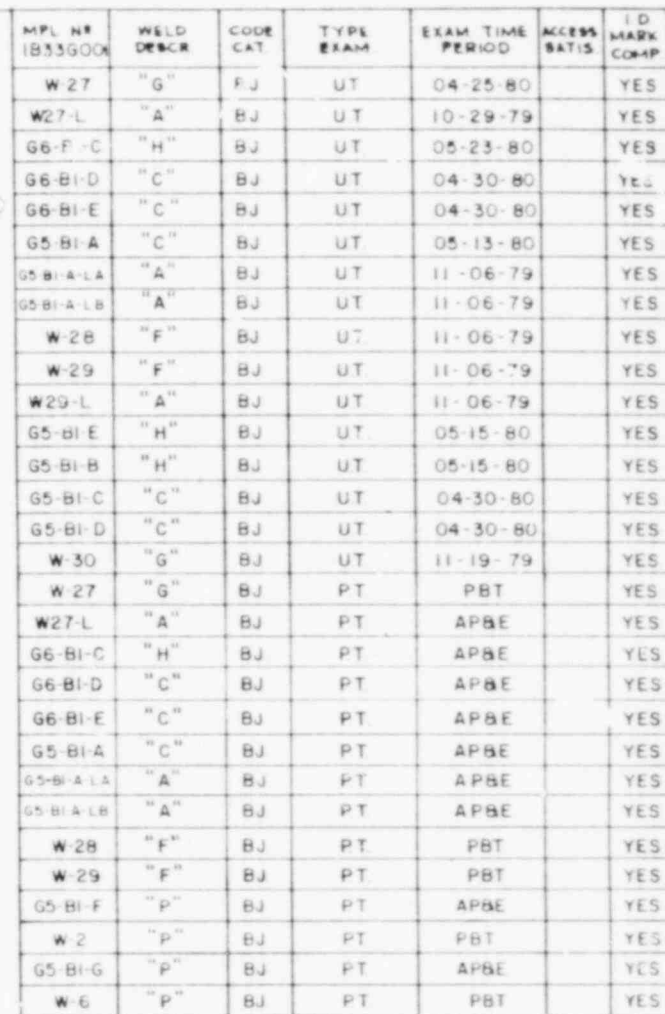
DATE
8



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3
--

GENERAL ELECTRIC

PROJECT	GG-1 (JB-1)	MADE BY	145E-MSO	DATE
MP8L		CS 2-77	ATLANTA	1977
SUBJECT	LOCATION	REP. NO.	RR-11	DATE
RECIRC	DRYWELL	767E377		1977
LOOP B		SK-M-1598	PAGE 2 of 2	



MP&L	GG-1	(JB-1)	DW#	BASE NSS	REV
			S GRAUS	ATLANTA	
SYSTEM REC'D	LOCATION	REF GR DW#	REF. P&ID	DWG. NR	SHT
LOOP 6	DRYWELL	767E977	M-1078A	RR-11	9
			SK-M-159B	PAGE 102	

INFORMATION ONLY

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FABRICATION, CONSTRUCTION
OR MAINTENANCE



MPL NO.	WELD DESC	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATUS	I.D. MARK COMPL
IB33G001						
W29 L	"A"	BJ	PT	APBE		YES
G5 BI-E	"H"	BJ	PT	APBE		YES
G5 BI-B	"H"	BJ	PT	APBE		YES
C-B-C	"C"	BJ	PT	APBE		YES
W30 D	"C"	BJ	PT	APBE		YES
W30	"G"	BJ	PT	PBT		YES
S302BA	HANGER	BK2	VT			N/A
S301BA	HANGER	BK2	VT			N/A
S3722A	HANGER	BK2	VT			N/A
S373BA	HANGER	BK2	VT			N/A
S374BA	HANGER	BK2	VT			N/A
S375BA	HANGER	BK2	VT			N/A
B302BB	HANGER	BK2	VT			N/A
B301BB	HANGER	BK2	VT			N/A
S369BA	HANGER	BK2	VT			N/A
S371BA	HANGER	BK2	VT			N/A
S370BA	HANGER	BK2	VT			N/A
H302BD	HANGER	BK2	VT			N/A
H301BD	HANGER	BK2	VT			N/A
H304BD	HANGER	BK2	VT			N/A
H303BD	HANGER	BK2	VT			N/A
VALVE FORGE	BOLTS (60)	B-G2	VT	06-23-81		N/A
PUMP	BOLTS (46)	B-G1	UT	03-17-81		N/A
IB33G00B	PUMP LUGS	BK2	PT	BJPD		N/A
WELD 1A 5.8						

ELEV 100' 1" -
* * * * *
ELEV 109' 3" -
* * * * *
ELEV 108' -
* * * * *
ELEV 121' 9" -
* * * * *
ELEV 124' 5" -
* * * * *
ELEV 139' -
* * * * *

INFORMATION ONLY
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FABRICATION, CONSTRUCTION
OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED

PROJECT		GENERAL ELECTRIC		DATE	
MP&L	GG-1 (JB-1)	MADE BY	S GRAUS	DATE	1981-05-01
SYSTEM	LOCATION	REF. NO.	REF. NO.	DATE	1981-05-01
RECIRC LOOP B	DRYWELL	767E977	M-1078A	RR-II	1981-05-01
			SK-M-1598	PAGE 2 of 2	9



* WELD OVERLAY

RR-0-2

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MP&L	GG-1	(JB-1)	DWG 03-23-77 S GRAUS	18SE NSS ATLANTA	✓ REV	18 PAGE
SYSTEM RECIRC. LOOP B	LOCATION DRYWELL	REF GG DWG 767E977	REF P&ID M-1078A SK-M-1598	DWG NO RR-11 PAGE 1 of 2		SHT 10



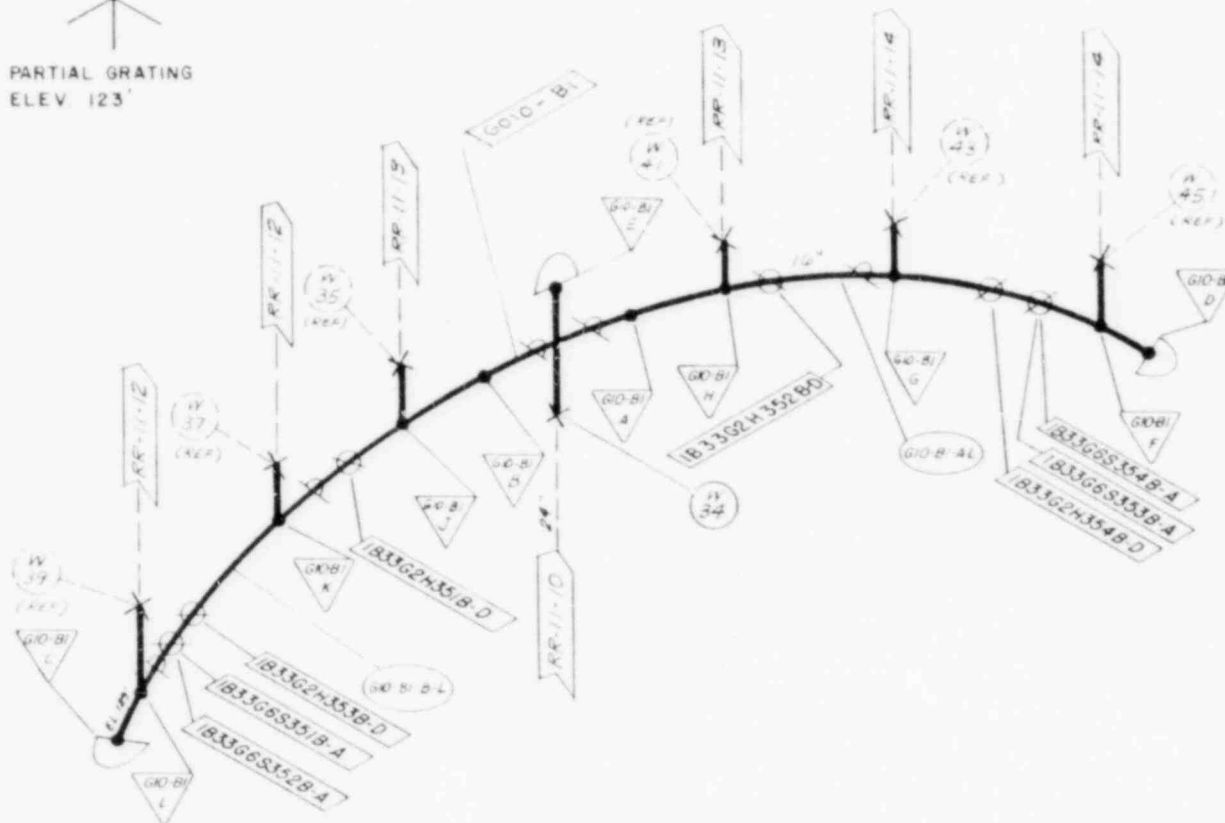
WPL NO	WELD	CODE	TYPE	EXAM TIME	ACCESS	I.D.
(B33600)	DESCR	CAT	EXAM	PERIOD	SATIS	MADE COMPL
G9-BI-A	"A"	BJ	PT	APBE		YES
G9-BI-B	"C"	BJ	PT	APBE		YES
G9-BI-B-L	"A"	BJ	PT	02-04-81		YES
G9-BI-F	Ø LUGS	BK1	PT	APBE		YES
G9-BI-J	Ø LUGS	BK1	PT	APBE		YES
G9-BI-H	Ø LUGS	BK1	PT	APBE		YES
G9-BI-G	Ø LUGS	BK1	PT	APBE		YES
G9-BI-M	Ø LUGS	BK1	PT	APBE		YES
G9-BI-N	Ø LUGS	BK1	PT	APBE		YES
G9-BI-L	Ø LUGS	BK1	PT	APBE		YES
G9-BI-K	Ø LUGS	BK1	PT	APBE		YES
S362BA	HANGER	BK2	VT			N/A
S363BA	HANGER	BK2	VT			N/A
S376BA	HANGER	BK2	VT			N/A
H356B-D	HANGER	BK2	VT			N/A
H355B-D	HANGER	BK2	VT			N/A
S361B-A	HANGER	BK2	VT			N/A
S360B-A	HANGER	BK2	VT			N/A
S358B-A	HANGER	BK2	VT			N/A
S359B-A	HANGER	BK2	VT			N/A
S356B-A	HANGER	BK2	VT			N/A
S357B-A	HANGER	BK2	VT			N/A
F067-B	BOLTS(24)	B-G-1	VT	06-24-81		YES

INFORMATION ONLY

ORIGINAL COPY WHEN THIS IMPRINT IN RED

PROJECT		GENERAL ELECTRIC	
MPAL	GG-1	(JB-1)	
SYSTEM	LOCATION	REP DATE	REP PAID
RECIRC	DRYWELL	767E977	M 1078A
LOOP B			SK-M-1598
MADE BY		I&SE-N&O	
05-23-77		ATLANTA	
S GRAUS		RR-II	
PAGE 2 of 2		10	

PARTIAL GRATING
ELEV 123'



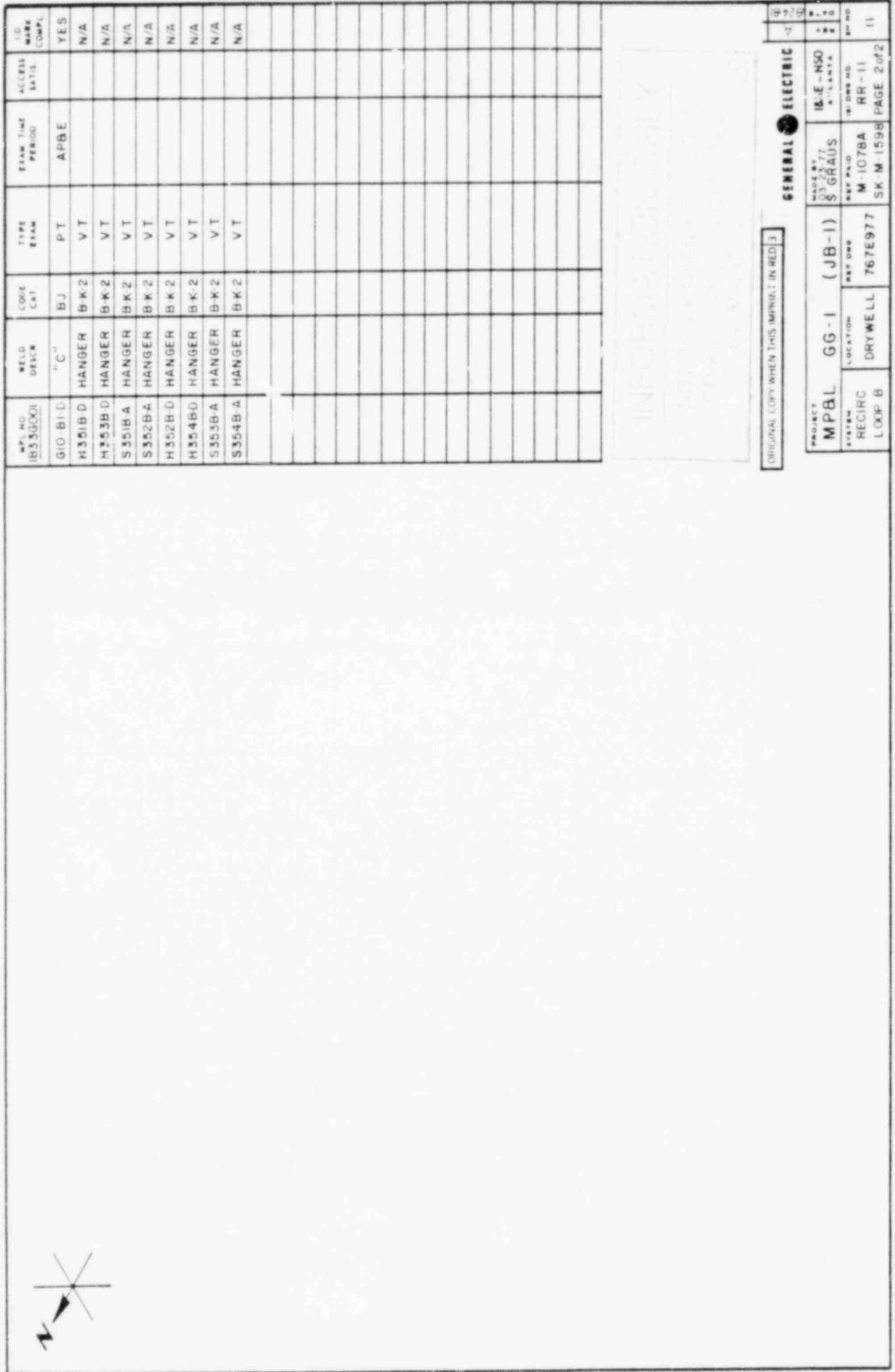
MPL N#	WELD	CODE	TYPE	EXAM TIME	ACCESS	1D
IB33G001	DESCR	CAT	EXAM	PERIOD	SATIS	MARK
W-34	"C"	BJ	UT	04-17-80		YES
G10-B1-E	"C"	BJ	UT	04-17-80		YES
G10-B1-B	"C"	BJ	UT	11-01-79		YES
G10-B1-J	"N"	BJ	UT	03-26-80		YES
G10-B1-K	"N"	BJ	UT	03-26-80		YES
G10-B1-B-L	"A"	BJ	UT	04-16-80		YES
G10-B1-L	"N"	BJ	UT	11-01-79		YES
G10-B1-C	"C"	BJ	UT	11-01-79		YES
G10-B1-A	"C"	BJ	UT	11-01-79		YES
G10-B1-H	"N"	BJ	UT	04-17-80		YES
G10-B1-A-L	"A"	BJ	UT	04-16-80		YES
G10-B1-G	"N"	BJ	UT	04-17-80		YES
G10-B1-F	"N"	BJ	UT	04-17-80		YES
G10-B1-D	"C"	BJ	UT	04-17-80		YES
W-34	"C"	BJ	PT	PBT		YES
G10-B1-E	"C"	BJ	PT	APBE		YES
G10-B1-B	"C"	BJ	PT	APBE		YES
G10-B1-J	"N"	BJ	PT	APBE		YES
G10-B1-K	"N"	BJ	PT	APBE		YES
G10-B1-B-L	"A"	BJ	PT	APBE		YES
G10-B1-L	"N"	BJ	PT	APBE		YES
G10-B1-C	"C"	BJ	PT	APBE		YES
G10-B1-A	"C"	BJ	PT	APBE		YES
G10-B1-H	"N"	BJ	PT	APBE		YES
G10-B1-A-L	"A"	BJ	PT	APBE		YES
G10-B1-G	"N"	BJ	PT	APBE		YES
G10-B1-F	"N"	BJ	PT	APBE		YES

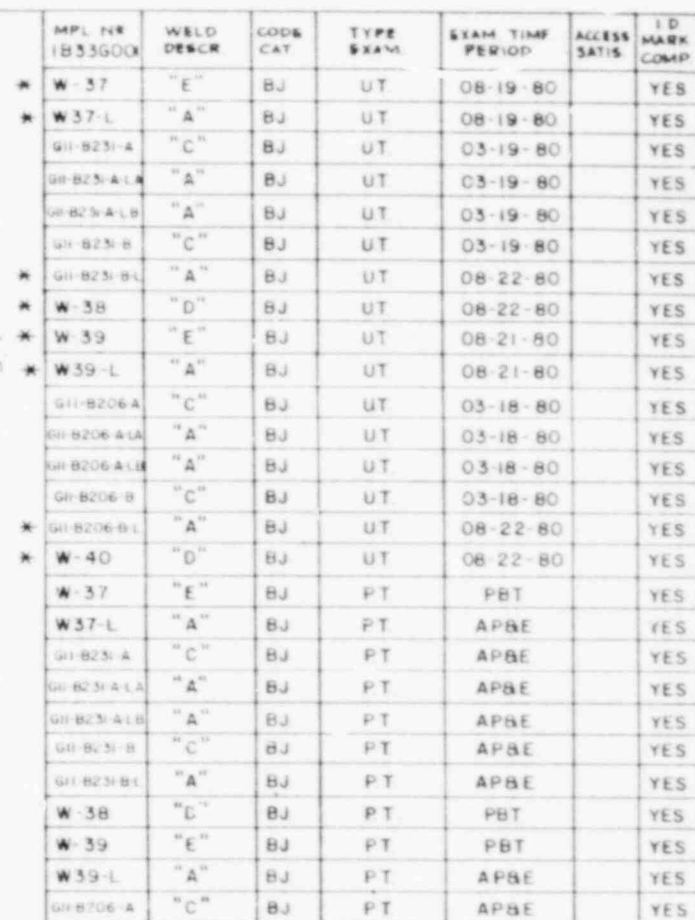
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OR MAINTENANCE

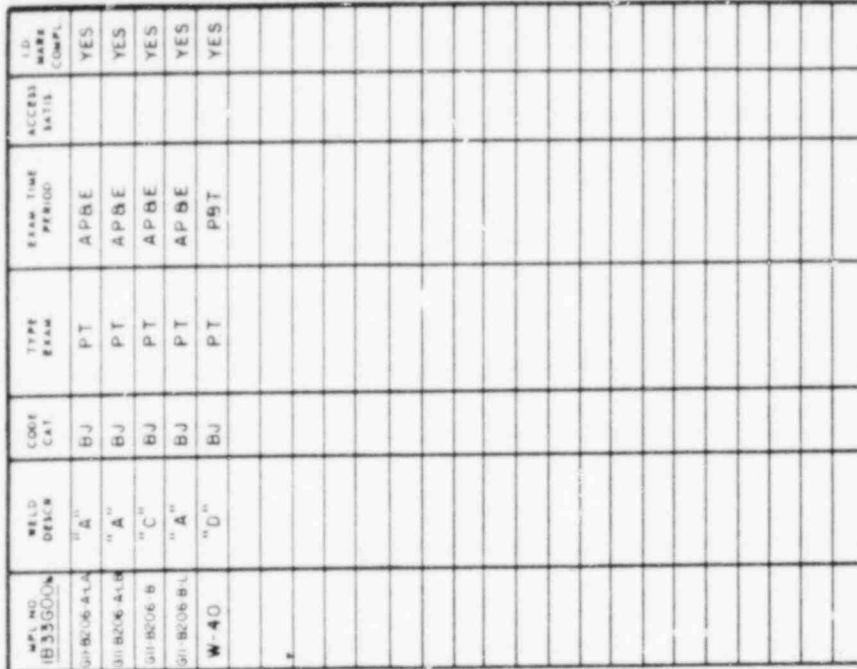
ORIGINAL COPY WHEN THIS IMPRINT IN RED

MP&L	GG-1	(JB-1)	DWN 05-23-77 S GRAUS	18 SE NSS ATLANTA	REV V	DATE 1-2-80
SYSTEM RECIRC LOOP B	LOCATION DRYWELL	REF 66 DWS 767E977	REF P&ID M-1078A SK-M-1598	DWS NY RR-11 PAGE 1 of 2	SHT 11	





MP&L	GG-1	(JB-1)	DATE 03-24-77	BASE NSS ATLANTA	REF ID A66000
SYSTEM RECIRC	LOCATION DRYWELL	REF. OR. DWS 767E977	REF. #&ID M-1078A	DWG. NR RR-11	SHT 12
LOOP B			SK-M-1598	PAGE 1 of 2	



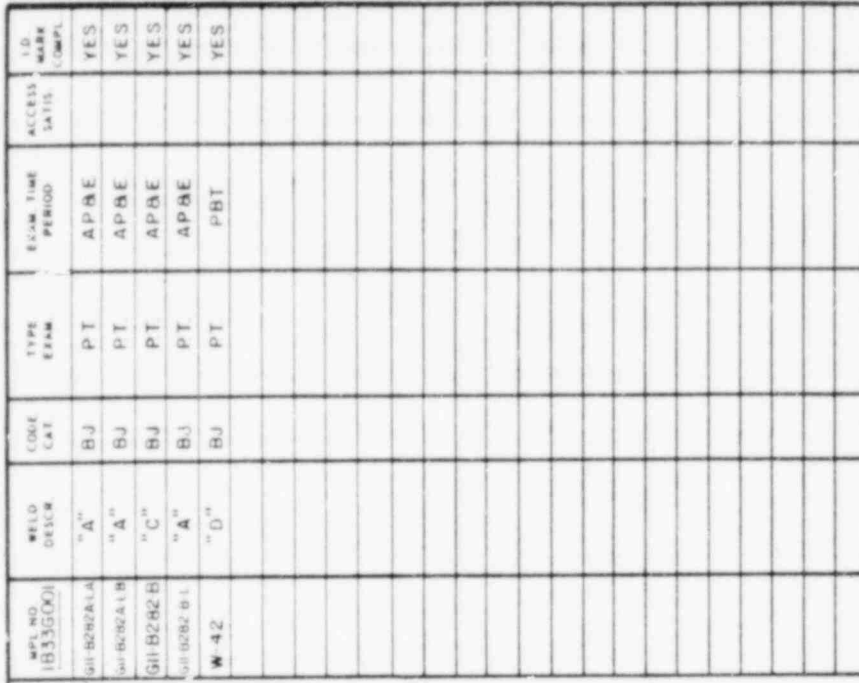
INFORMATION ONLY

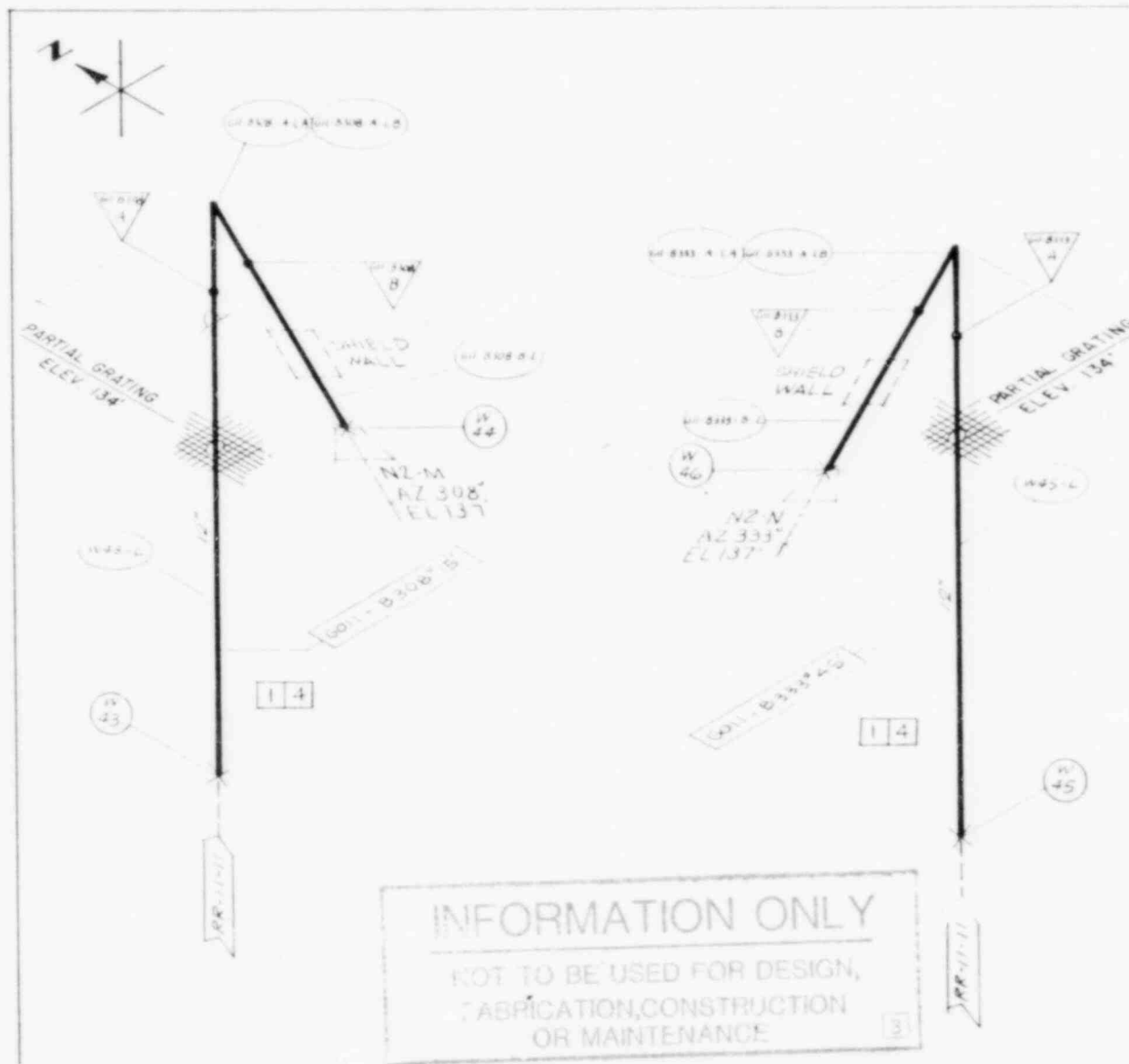
ORIGINAL COPY WHEN THE IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MP&L	GG-1	(JB-1)	MADE BY	03-24-77	DATE	03-24-77
SYSTEM	RECIRC	LOCATION	REP JOB	REP PLO	M-1078A	INSTR	RR-11
LOOP #	LOOP B	DRYWELL	7675977	SK-M-1598	PAG 2 of 2		

MP&L	GG-1	(JB-1)	DATE 03-24-77	IBSE NSS	FILE NO.
			S GRAUS	ATLANTA	
SYSTEM RECIRC. LOOP B	LOCATION DRYWELL	FOR OFF. CHRG. 767E977	REF. PAID M-1078A SK-M-1598	CHRG. NR RR-11	PAGE 13
				PAGE 1 of 2	

[illegible]



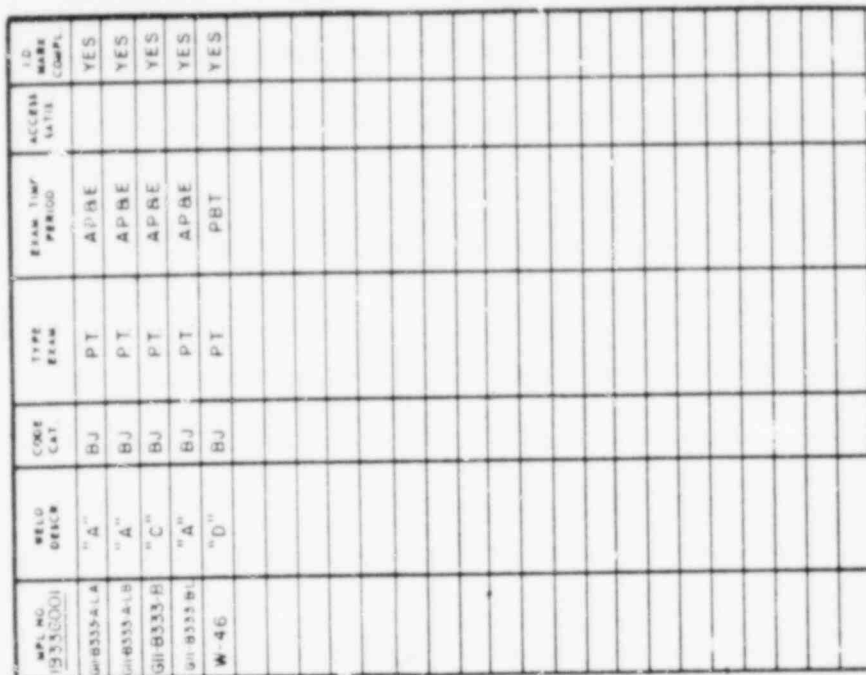
MPL NR	WELD DESCR.	CODE CAT.	TYPE EXAM.	EXAM. TIME PERIOD	ACCESS SATIS.	I.D. MARK COMP.
IB33G001						
* W-43	"E"	BJ	UT	08-19-80		YES
* W43-L	"A"	BJ	UT	08-19-80		YES
GII B308A	"C"	BJ	UT	03-21-80		YES
GII B308A-LA	"A"	BJ	UT	03-21-80		YES
GII B308A-LB	"A"	BJ	UT	03-21-80		YES
GII B308B	"C"	BJ	UT	03-21-80		YES
GII B308B-L	"A"	BJ	UT	08-25-80		YES
* W-44	"D"	BJ	UT	08-25-80		YES
* W-45	"E"	BJ	UT	08-20-80		YES
* W45-L	"A"	BJ	UT	08-20-80		YES
GII B333A	"C"	BJ	UT	03-24-80		YES
GII B333A-LA	"A"	BJ	UT	03-24-80		YES
GII B333A-LB	"A"	BJ	UT	03-24-80		YES
GII B333B	"C"	BJ	UT	03-24-80		YES
GII B333B-L	"A"	BJ	UT	08-25-80		YES
* W-46	"D"	BJ	UT	08-25-80		YES
W-43	"E"	BJ	PT	PBT		YES
W43-L	"A"	BJ	PT	AP&E		YES
GII B308A	"C"	BJ	PT	AP&E		YES
GII B308A-LA	"A"	BJ	PT	AP&E		YES
GII B308A-LB	"A"	BJ	PT	AP&E		YES
GII B308B	"C"	BJ	PT	AP&E		YES
GII B308B-L	"A"	BJ	PT	AP&E		YES
W-44	"D"	BJ	PT	PBT		YES
W-45	"E"	BJ	PT	PBT		YES
W45-L	"A"	BJ	PT	AP&E		YES
GII B333-A	"C"	BJ	PT	AP&E		YES

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ORIGINAL COPY WHEN THIS IMPRINT IN RED

MPL	GG-1 (JB-1)	OWN	53-26-77	BASE NSS	ATLANTA	REP	A
SYSTEM	RECIRC	LOCATION	DRYWELL	REP 68 DWS	767E977	REP PAID	M-1078A
LOOP B				DWS NR	RR-11	SK M-1598	PAGE 1 of 2
							14

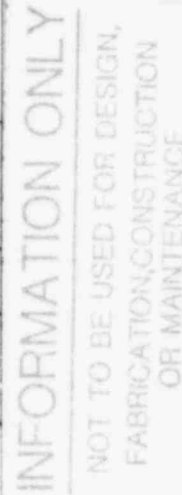


INFORMATION ONLY

ORIGINAL COPY WHEN THIS IMPRINT IN RED	3
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GENERAL ELECTRIC

PROJECT	GG-1	(JB-1)	MADE BY	DATE	BY	NO
MPBL			DR-2	7-77	ATLANTA	14
SYS.	LOC.	REP	NO	NO	NO	NO
RECIR	DRYWELL	767E977	M-P1078A	RR-11	RR-11	RR-11
LOOP B			SK-M159B	PAGE 2 of 2		



MPL NR 18956023	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS STATUS	ID MARK COMP
W-37	"C"	BJ	UT	09-05-80		YES
W-116	"C"	BJ	UT	09-05-80		YES
W-117	"C"	BJ	UT	09-05-80		YES
W-38	"G"	BJ	UT	07-01-80		YES
W-37	"C"	BJ	PT	PBT		YES
W-116	"C"	BJ	PT	PBT		YES
W-117	"C"	BJ	PT	PBT		YES
W-38	"G"	BJ	PT	PBT		YES
ROI-A	HANGER	BK2	VT			N/A

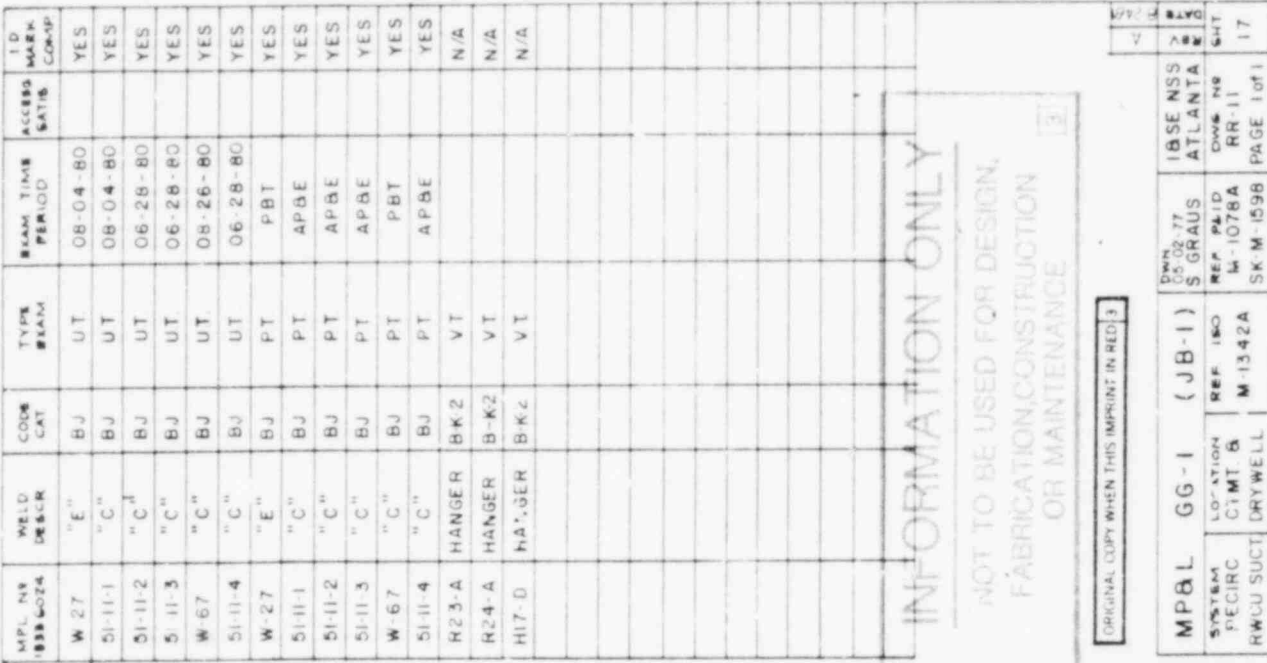
ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

ORIGINAL COPY WHEN THIS IMPRINT IN RE-1		MPBL		GC-1	(JB-1)	DP-1	S GRAVS	105E NSS	ATLANTA	DATE	TIME
SYSTEM	RECIRC.	LOCATION	REF. ISO	REF. PAID	REF. NO	DP-1	S GRAVS	105E NSS	ATLANTA	DATE	TIME
RHR SUCT		CLMT	M-1348A	M-1078A	RR-11	DP-1	S GRAVS	105E NSS	ATLANTA	DATE	TIME
						DP-1	S GRAVS	105E NSS	ATLANTA	DATE	TIME

RR-0-2

* GE - BECHTEL INTERFACE WELD

CAL. STANDARD I.D. = 9, ** 134



INFORMATION ONLY

ORIGINAL COPY WHEN THIS IMPRINT IN RED. 3

MP&L	GG-1	(JB-1)	DATE 05-02-77	BASE NOS ATLANTA	DATE 7-8-77
SYSTEM PERC	LOCATION CMT &	REF ISO M 1342A	REP PLD W-1078A	DWG NO RR-11	SHT 17
WCU SUCT	DRYWELL			PAGE 1 of 1	

CAL. STANDARD I.D.# 3, #48, #49 * GE-BECHTEL INTERFACE WELD

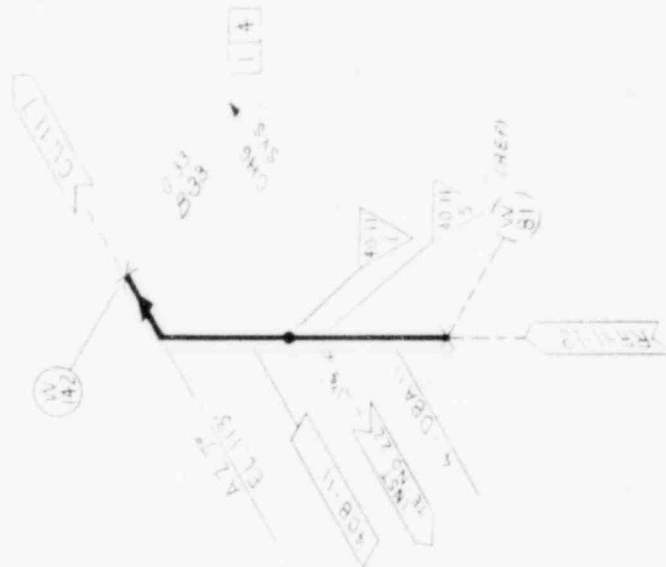
RR-0-2



ORIGINAL COPY WHEN THIS IMPRINT IN RED	3
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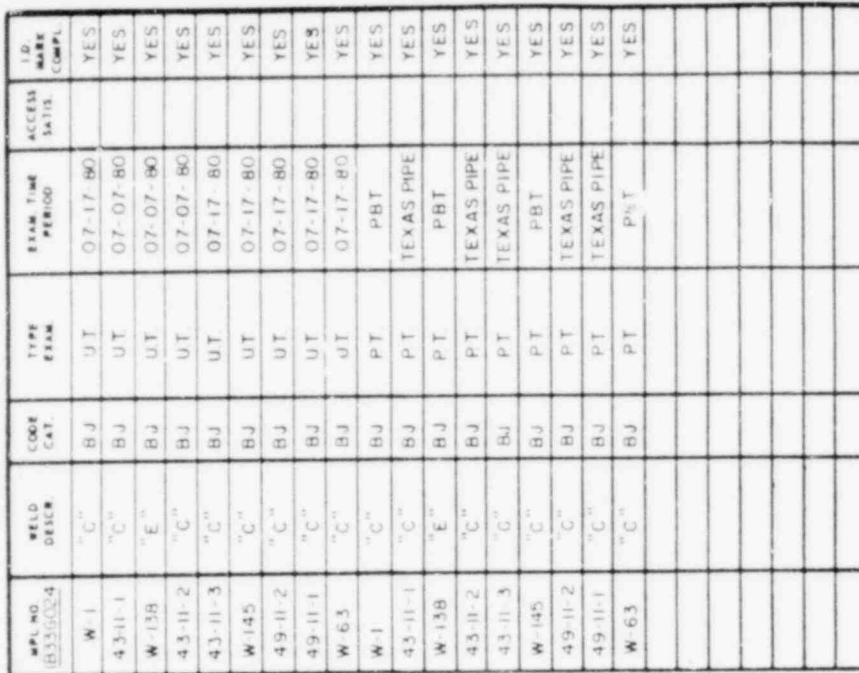
PROJECT MPBL		GG-1 (JB-1)		MADE BY R DILL		I&SE-NISO ATLANTA		PAGE NO 22	
SYSTEM RECIRC RWCU SUC		LOCATION CTMTB DRY WELL		REF TIME RR-11-17		REF PAID M-1078A		PAGE 1 of 1	

99-0-2



GENERAL ELECTRIC

99-0-2



ORIGINAL COPY WHEN THIS IMPRINT IS RECEIVED

GENERAL ELECTRIC

PROJECT	GG-1 (JB-1)	MADE BY	DATE
MP8L		GP-4 (S)	1978
SYSTEM	LOCATION	REF. NO.	19
	UNDER	M-1078	
	CTMT RPV	M-1342A	
		SK-M-1598	PAGE 2 OF 2

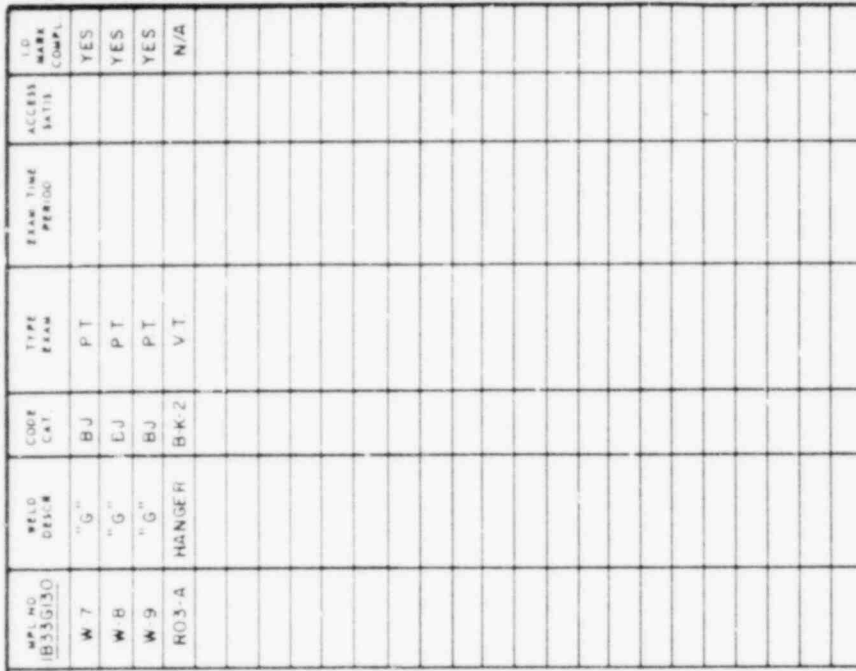
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ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MP&L	GG-1 (JB-1)	MADE BY ROBERT DILL 02-27-81	ISSUE-NISO ATLANTA	13
SYSTEM	RWCU	LOCATION UNDER CITY	REF PAID RR-II-19	ISSUE NO. RR-II	24
			M-1078A		
			ISS-5-028-C		

★ GE-BECHTEL INTERFACE WELD RR-03 WITHIN GRO MECHANISMS



ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	MPBL	GG-1	(JB-1)	ORDER NO. TO: 27-81	DATE
EXTENSION	RWCU	CTMT	RH-11-C	REP. PAID M-1078A	181000 NO. RR-11
			FSK S-030		PAGE Total 25
					181000 NO. RR-11
					PAGE Total 25

KK-0-3

CU - R W C U SYSTEM - G33

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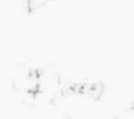
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DRAWING

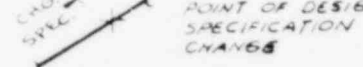
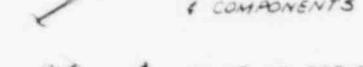
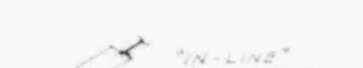
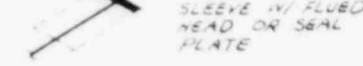
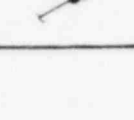
SYMBOLS



LINE SIZE &
SPECIFICATION
DESIGNATION



INDICATES PRESSURE
RETAINING BOLTING



LETTER SYMBOLS

PIPING SYSTEMS

CC - CONTAINMENT COOLING
CD - CONDENSATE
CG - COMBUSTIBLE GAS
CW - 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 (FP/CD)
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 (RW/CD)
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
J - FITTING TO FITTING
K - FITTING TO PUMP
L - FITTING TO VALVE
M - VALVE TO VALVE
N - PIPE TO SWEEPLET
P - PIPE TO SICKLET
R - CODE TAG WELD

ABBREVIATIONS

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 & NOZZLE
PEN - PENETRATION

REV - REVISION
RPV - REACTOR VESSEL
RX - REACTION
SCH - SCHEDULE
SHT - SHEET
SOL - SOCKLET
STD - STANDARD

INFORMATION ONLY

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OR MAINTENANCE

HANGERS

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

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

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

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

DRAWING NO.
35IN7980006
REV.
A

ISI EXAMINATION REQUIREMENTS

- 1 VOLUMETRIC EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, (WB-2500 AND IWC-2500).
- 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-2500 AND IWC-2500).
- 3 VISUAL EXAMINATION OF CLASS 1 AND 2 COMPONENTS PER ASME SECTION XI, (WB-2500 AND IWC-2500).
- 4 SYSTEM LEAKAGE AND HYDROSTATIC PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 1 COMPONENTS PER ASME SECTION XI, (WA-5000 AND IWB-5000).
- 5 SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 2 COMPONENTS PER ASME SECTION XI, (WA-5000 AND IWC-5000).
- 6 SYSTEM PRESSURE TESTS AND VISUAL EXAMINATION OF CLASS 3 COMPONENTS PER ASME SECTION XI, (WA-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: 115-0-1

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 OF
PLANT WHERE PIPING IS LOCATED
(SEE DWG 35INB080007)
SYSTEM LETTER SYMBOL

B. CLASS 3 SYSTEMS

EXAMPLE: CU-103

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

INFORMATION ONLY

NOT TO BE USED FOR DESIGN,
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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	GENERAL ELECTRIC NUCLEAR SERVICE OPERATION INSTALLATION & SERVICE ENGINEERING DIV ATLANTA, GEORGIA
CONTRACT NO 350N74002		PROJECT GRAND GULF NUCLEAR PLANT	
MADE FOR MISSISSIPPI POWER & LIGHT		DRAWING NO 35IN74B0006	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 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

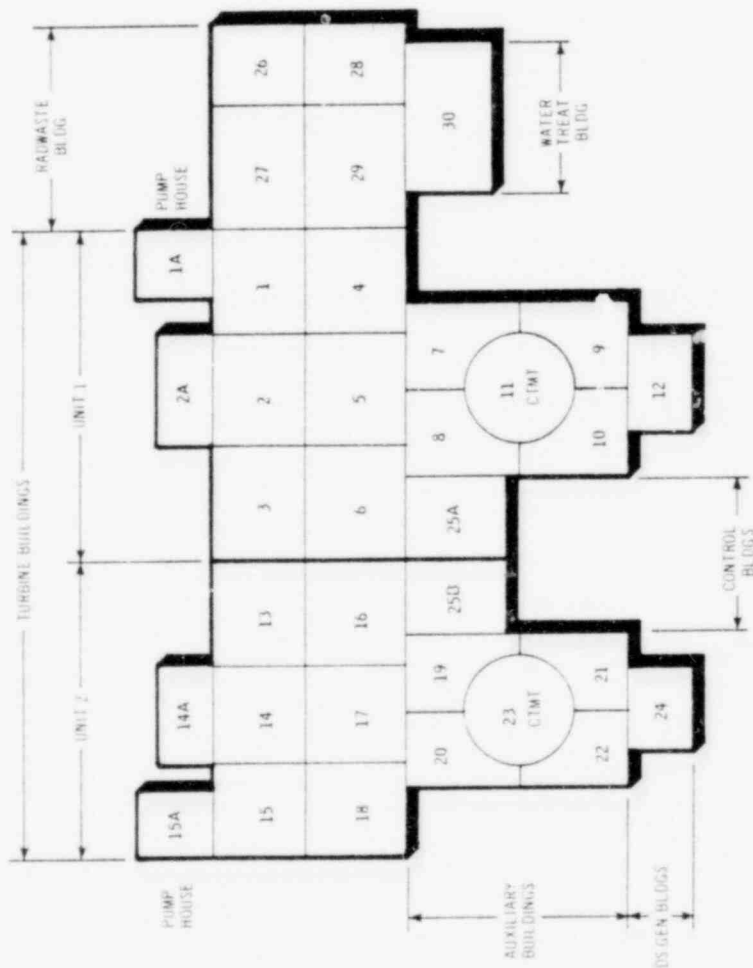
Z FABRICATED, INSPECTED AND INSTALLED PER ASME
SECTION III, CLASS 3. DESIGNED PER ANSI B31.1
N-STAMPING, SEISMIC ANALYSIS AND Q-LISTING ARE
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OR MAINTENANCE

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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 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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OR MAINTENANCE

ORIGINAL COPY WHEN THIS IMPRINT IN RED

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

INDEX TO ISOS FOR G-33 SYSTEM

COMPOSITE :	CU-0-1	REV
ISOS :	CU-8-1	A
	CU-8-2	A
	CU-11-5	A

COMPOSITE :	CU-0-2	REV
ISOS :	CU-8-5	A
	CU-11-1	A
	CU-11-2	A
	CU-11-3	A
	CU-11-4	A
	CU-11-7	A
	CU-11-9	A
	CU-11-10	A
	CU-11-11	A
	CU-11-12	A
	CU-11-13	A
	CU-11-14	A
	CU-100	A

COMPOSITE :	CU-0-3	REV
ISOS :	CU-8-3	A
	CU-11-8	A
	CU-101	A

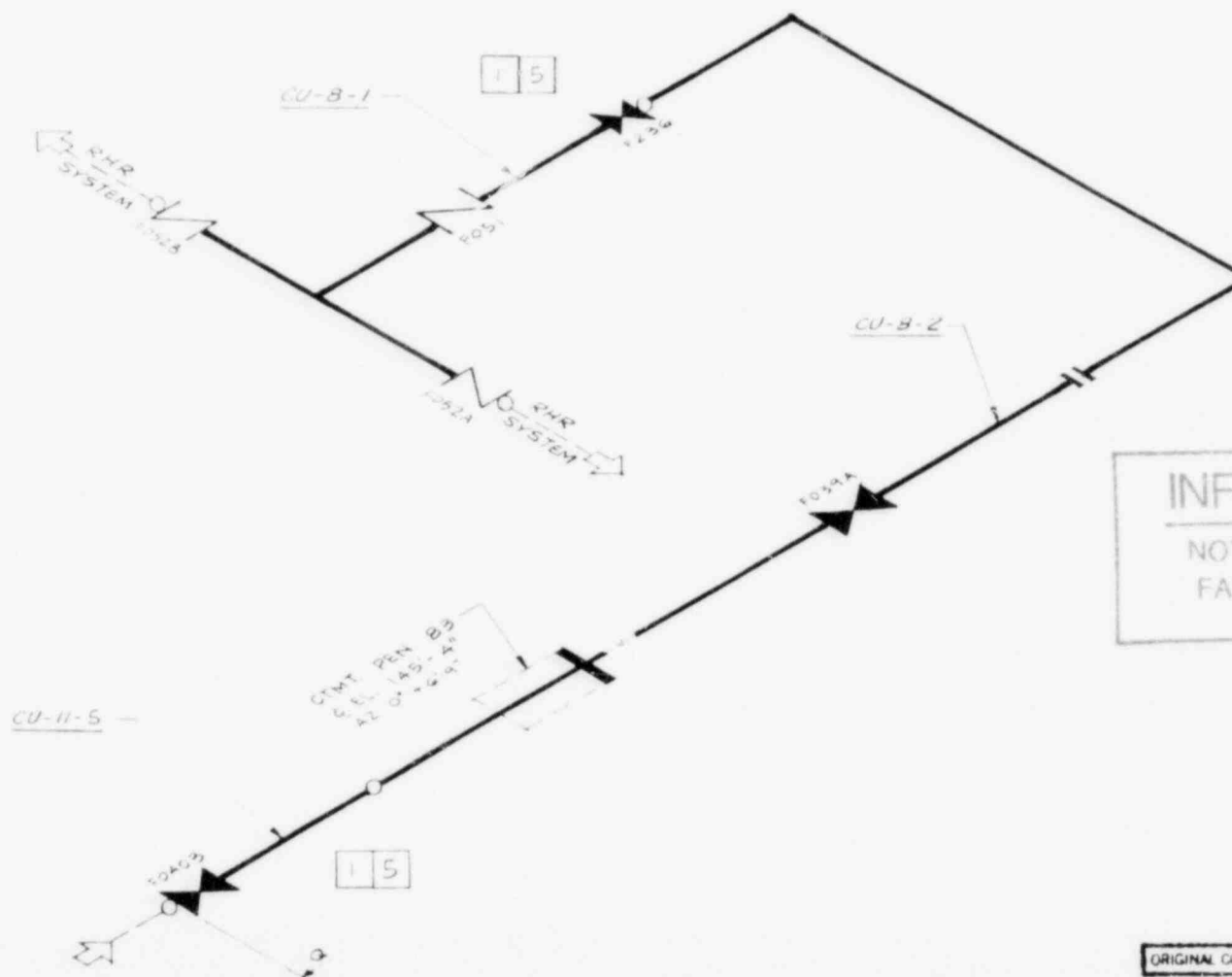
COMPOSITE :	CU-0-4	REV
ISOS :	CU-8-4	A
	CU-11-6	A
	CU-102	A

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REV	A
DATE	8-8



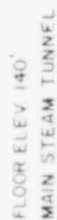
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FABRICATION, CONSTRUCTION
OR MAINTENANCE

No. Pipe Specs _____
No. Pipe Shop Welds _____
No. Pipe Field Welds _____
No. Hgcs/Restraints _____
TOTAL NO. WELDS _____

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

PROJECT MP&L GG-1 (JB-1)			MADE BY 11-15-78 S. GRAUS	I&SE - NSO ATLANTA	REV NO
SYSTEM RWCU TO FW.	LOCATION STEAM TUNNEL	REP. DRG M-1328K M-1342H	REP. PAID M-1079 SK-M-1597	S. OPS. NO. CU-0 PAGE 1 of 1	REV NO 1



CAL STANDARD 10 - 12 ISI DUE TO BECHTEL NOTE 23

ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

MPBL	GG-1	(JB-1)	OWN	04-18-77	BASE NSO	DATE
SYSTEM	LOCATION	REF NO	REP	PAID	ATLANTA	REV
RWC FROM	STEAM	M-1079	M-1079	DWG. NO	CW-8	547
HEAT EXCH	TUNNEL	M-1328K	SK-N-1597	PAGE 2 OF 1		1



FLOOR ELEV 140'
CONTAINMENT STEAM TUNNEL
ACCESS GAINED BY USING
LADDER ON ELEV 161'



15

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OR MAINTENANCE

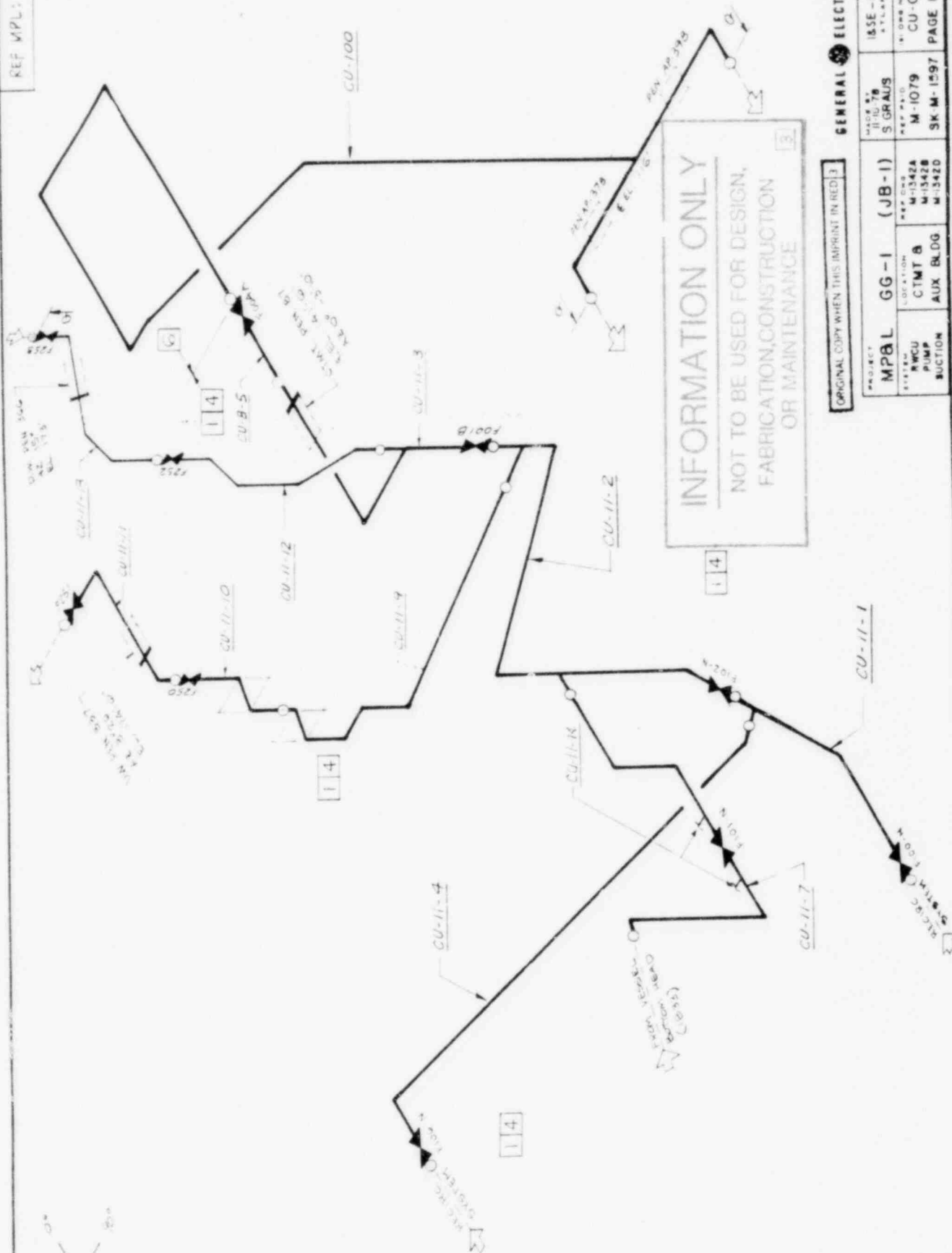
MPL N°	WELD DESCR.	CODE CAT.	TYPE EXAM	EXAM TIME PERIOD	ACCESS ATIS	I.D. MARK COMPL.
1633 G010						
W-7	"G"	CF	UT	08-01-80		YES
W-8	"G"	CF	UT	06-18-80		YES
W-7	"G"	CF	MT	02-06-81		YES
W-8	"G"	CF	MT	02-06-81		YES

DATE	REV	DATE	REV	DATE	REV
10/2/80	4	10/2/80	5	10/2/80	6

MPBL	GG-1	(JB-1)	OWN 04-21-78	BASE NSO
SYSTEM	LOCATION	REF 150	S GRAUS	ATLANTA
RWCU	CTMT	M-1342H	REF P&ID	DWG N°
			M-1079	CU-11
			SK-M-1597	PAGE 1 of 1

LINE NO. W THKNS
6" DBB-104 562"
ISI DUE TO NO BREAK ZONE

CAL STANDARD I.D. 12



INFORMATION ONLY

ORIGINAL COPY WHEN THIS IMPRINT IN RED

ORIGINAL COPY WHEN THIS IMPRINT IN RED		GENERAL ELECTRIC		1-7	
PROJECT MPAL		MATERIALS S GRAUS		MATERIALS 1&SE - N50 SYLANTA	
LOCATION GG-1 (JB-1)		PART NO M-1079		PART NO CU-O	
DESCRIPTION CTMT A M3428 AUX BLDG M3420		QUANTITY SK M-1079		PAGE 1 of 1	



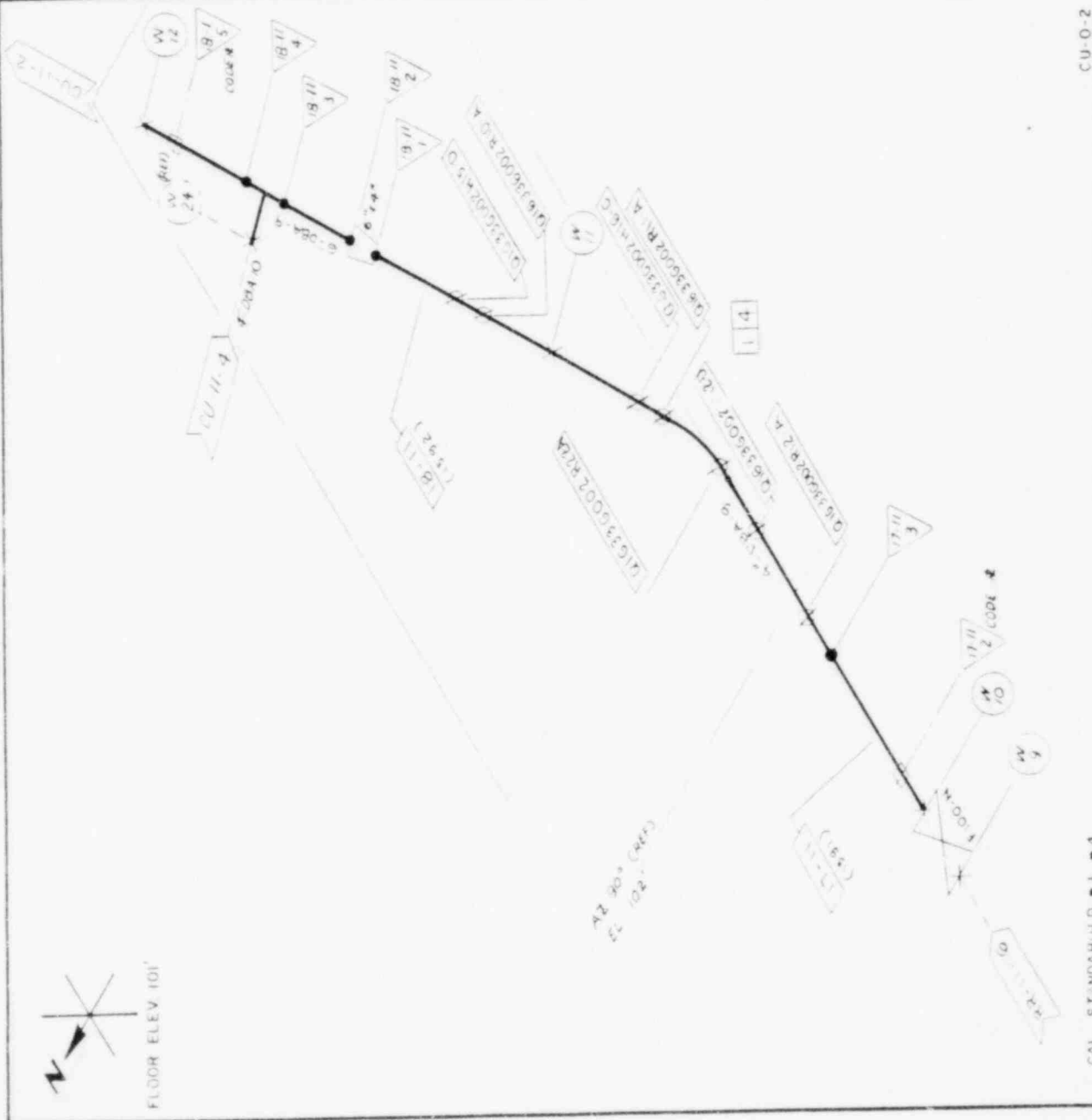
ORIGINAL COPY WHEN THIS IMPRINT IS RECD.

GENERAL ELECTRIC

PROJECT MP&L	GG-1	(JB-1)
SYSTEM RWCU	LOCATION STEAM TUNNEL	REV DES M-1342A

CU-0-2

CAL STANDARD 10-4



MPL NO.	WELD DESCR.	CODE CAT.	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS.	I.D. MARK COMPL.
16335002						
W 9	"G"	BJ	UT	02-28-80		YES
W 10	"G"	BJ	UT	07-08-80		YES
17-11-3	"E"	BJ	UT	07-08-80		YES
W 11	"E"	BJ	UT	07-08-80		YES
18-11-1	"C"	BJ	UT	07-08-80		YES
18-11-2	"C"	BJ	UT	07-08-80		YES
18-11-3	"C"	BJ	UT	07-08-80		YES
18-11-4	"C"	BJ	UT	07-08-80		YES
W 12	"G"	BJ	UT	07-08-80		YES
W 9	"G"	BJ	PT	PBT		YES
W 10	"G"	BJ	PT	PBT		YES
17-11-3	"E"	BJ	PT	TEXAS PIPE		YES
W 11	"E"	BJ	PT	PBT		YES
18-11-1	"C"	BJ	PT	TEXAS PIPE		YES
18-11-2	"C"	BJ	PT	TEXAS PIPE		YES
18-11-3	"C"	BJ	PT	TEXAS PIPE		YES
18-11-4	"C"	BJ	PT	TEXAS PIPE		YES
W 12	"G"	BJ	PT	PBT		YES
R12-A	HANGER	BK2	VT			N/A
R12-D	HANGER	BK2	VT			N/A
R22-A	HANGER	BK2	VT			N/A
R11-A	HANGER	BK2	VT			N/A
R16-C	HANGER	BK2	VT			N/A
R10-A	HANGER	BK2	VT			N/A
R15-D	HANGER	BK2	VT			N/A

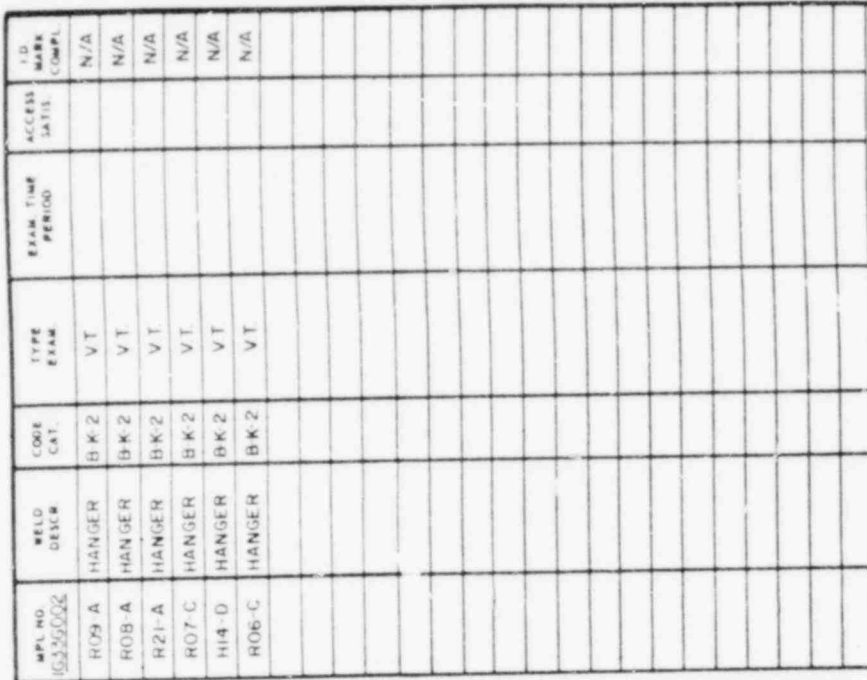
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PROJECT		MPBL		GG-1	(JB-1)
SYSTEM		RWCU		LOCATION	DRYWELL
WELD BY		S. GRAUS		DATE	04-28-77
WELD NO.		M-1079		DATE	04-28-77
WELD NO.		M-1342A		DATE	04-28-77
WELD NO.		SK-M-1597		DATE	04-28-77
WELD NO.		PAGE 1 of 1			

GENERAL ELECTRIC



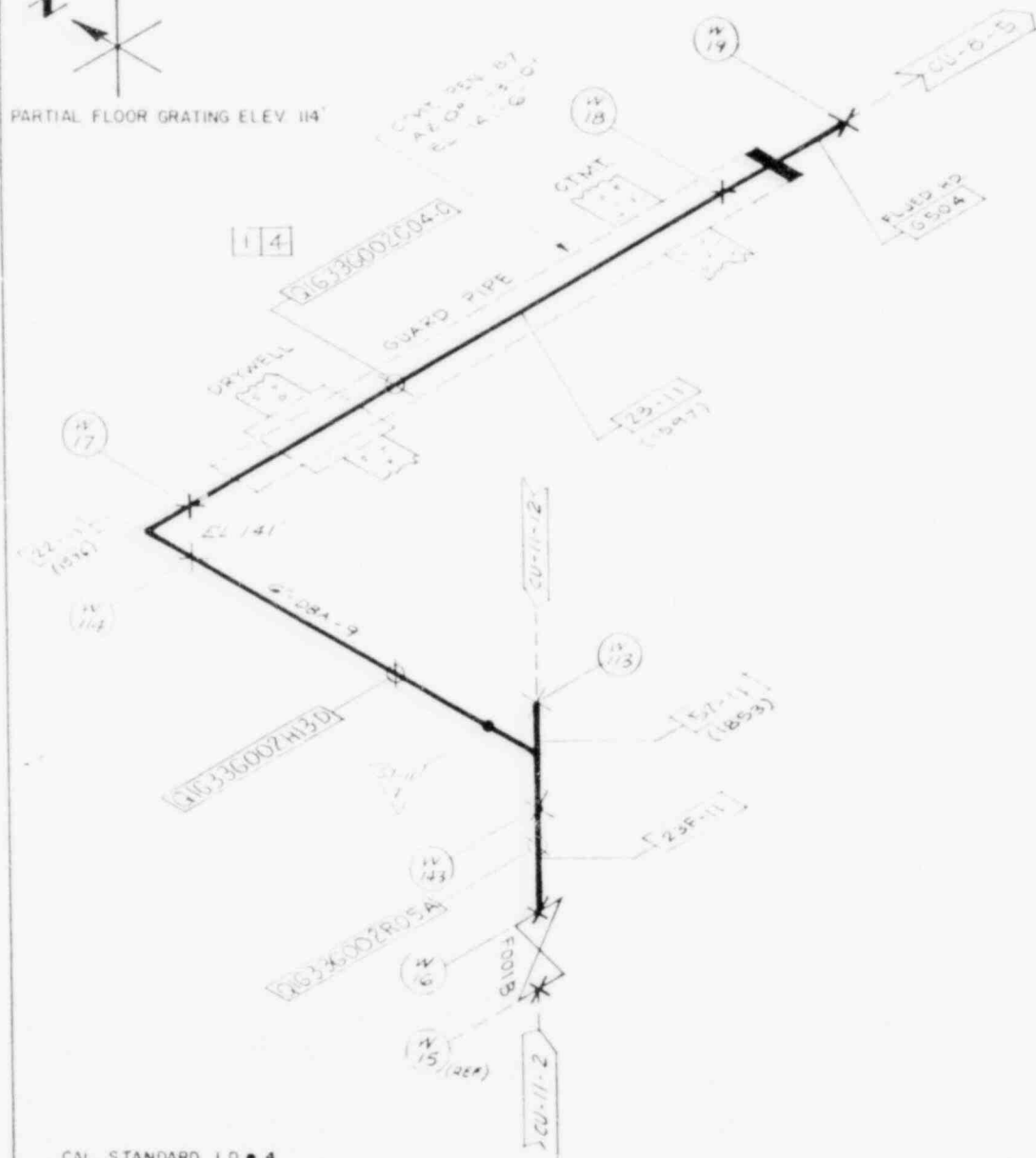
ORIGINAL COPY WHEN THIS IMPRINT IN RED 3

GENERAL ELECTRIC

PROJECT	GG-1 (JB-1)		ORDER BY	DATE	BY
MPBL			04-10-80	143E-N50	
			5 GRAUS	ATLANTA	
SYSTEM	LOCATION	REP ORD	REP ORD NO	CU-11	2
RWCU	DRYWELL	M-1342A		PAGE 2 of 2	
				SK M-1597	



PARTIAL FLOOR GRATING ELEV 114'



MPL NR 16356002	WELD DESCR.	CODE CAT.	TYPE EXAM.	EXAM TIME PERIOD	ACCESS SATIS.	I.D. MARK COMP.
W-16	"G"	BJ	UT	07-09-80		YES
W-143	"C"	BJ	UT	07-09-80		YES
W-113	"C"	BJ	UT	07-09-80		YES
57-11-1	"C"	9J	UT	07-09-80		YES
W-114	"C"	BJ	UT	07-09-80		YES
W-17	"C"	BJ	UT	07-09-80		YES
W-18	"E"	BJ	UT	07-19-80		YES
W-13	"E"	BJ	UT	07-14-80		YES
W-16	"G"	BJ	PT	PBT		YES
W-143	"C"	BJ	MT	PBT		YES
W-113	"C"	BJ	PT	PBT		YES
57-11-1	"C"	BJ	PT	TEXAS PIPE		YES
W-114	"C"	BJ	PT	PBT		YES
W-17	"C"	9J	PT	PBT		YES
W-18	"E"	BJ	PT	PBT		YES
W-19	"E"	BJ	PT	PBT		YES
R05-A	HANGER	B-K-2	VT			N/A
H13-D	HANGER	B-K-2	VT			N/A
C04-C	HANGER	B-K-2	VT			N/A

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MP&L GG-1 (JB-1)			OWN 04-29-77	18 SE NSO
SYSTEM RWCU			S GRAUS	ATLANTA
LOCATION DRYWELL			REC. PAID M-1079	CU-11
REP 150 M-1342A			SK-M-1597	PAGE 1 of 1
				3

MPL NR IG13002	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	ID MARK COMP
W 26	"C"	BJ	UT	06-28-80		YES
W 25	"G"	BJ	UT	07-07-80		YES
39-II-1	"C"	BJ	UT	07-07-80		YES
39-II-2	"C"	BJ	UT	07-07-80		YES
W 24	"C"	BJ	UT	07-07-80		YES
W 26	"C"	BJ	PT	PBT		YES
W 25	"G"	BJ	PT	PBT		YES
39-II-1	"C"	BJ	PT	TEXAS PIPE		YES
39-II-2	"C"	BJ	PT	TEXAS PIPE		YES
W 24	"C"	BJ	PT	PBT		YES
R13 A	HANGER	BK2	/T			N/A
H09 D	HANGER	BK2	VT			N/A
R14 A	HANGER	BK2	VT			N/A



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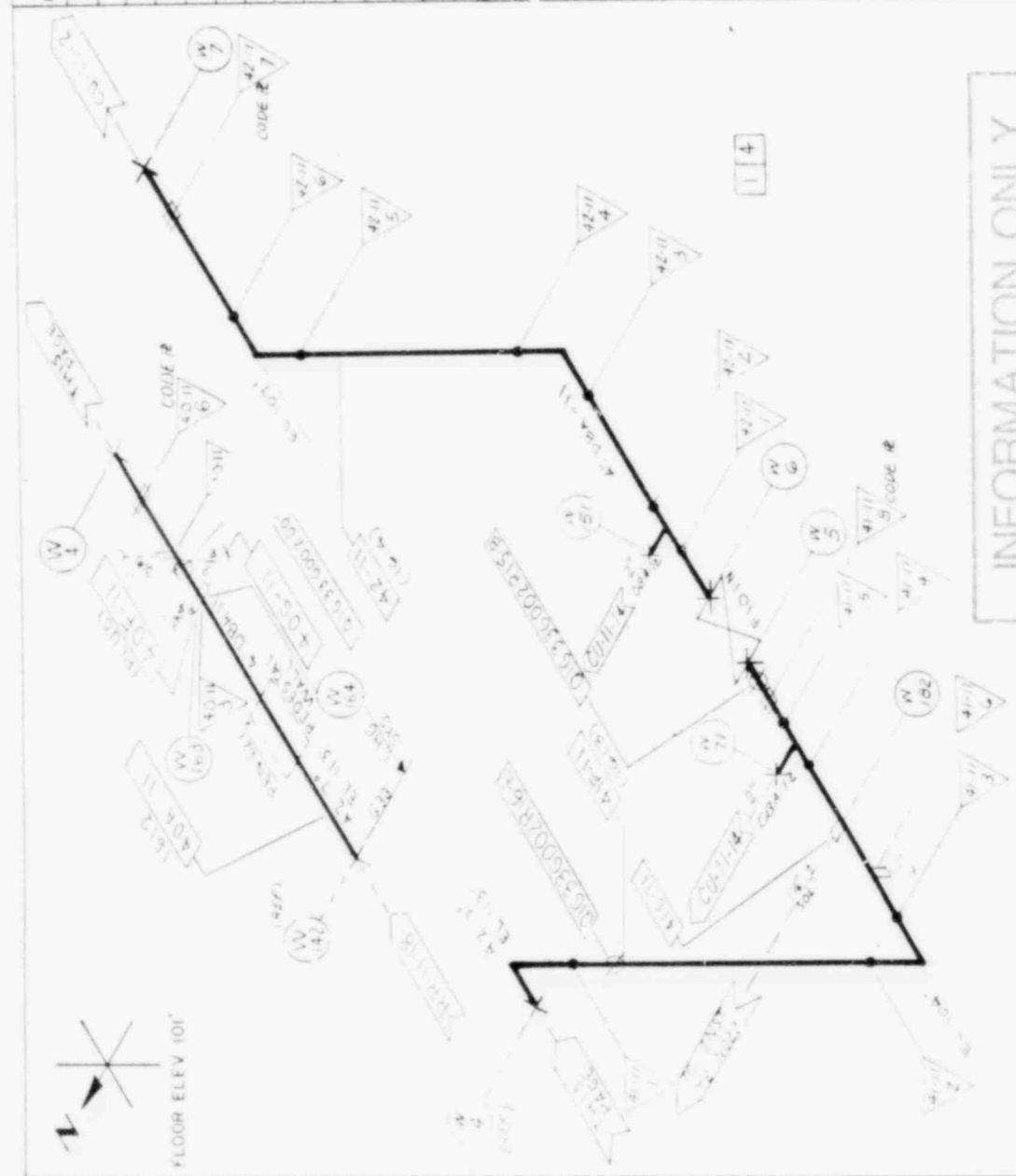
MPBL	GG-1	(JB-1)	DOWN S GRAUS	IBSE NSC	ATLANTA	SH	4
SYSTEM	LOCATION	REF ISO	REF PAID	DWG NO	CU-11		
RWCU	DRYWELL	M-1342A	M-1079	SK-M-1597	PAGE 1 of 1		

CU-0 2

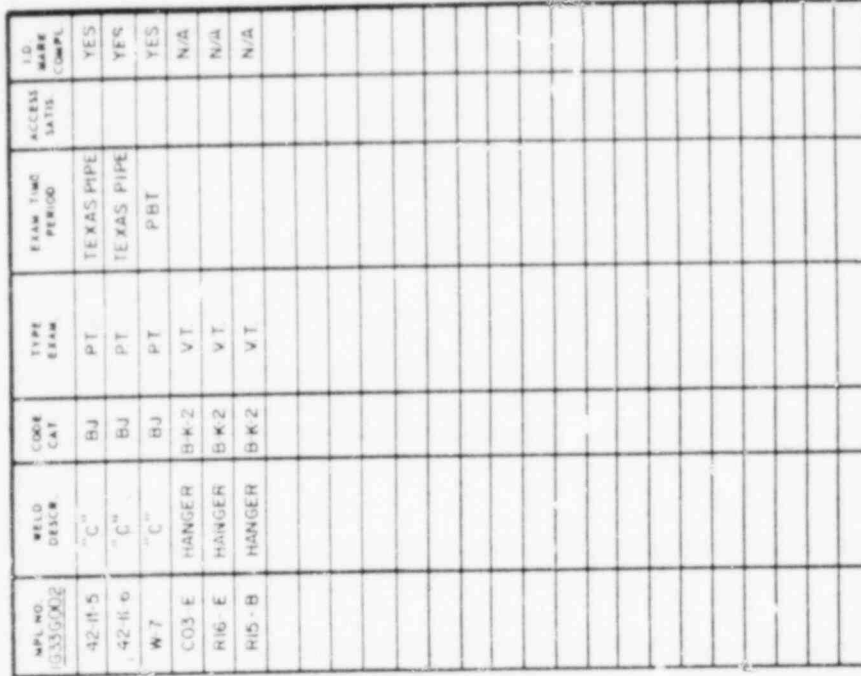
CAL STANDARD I.D. 1

APPL NR 1653-0002	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I D MARK COMP
W-4	"C"	BJ	UT	07-02-80		YES
41-11-1	"C"	BJ	UT	07-07-80		YES
41-11-2	"C"	BJ	UT	07-02-80		YES
41-11-3	"C"	BJ	UT	07-02-80		YES
41-11-4	"C"	BJ	UT	07-02-80		YES
W-71	"C"	BJ	UT	07-12-80		YES
41-11-5	"C"	BJ	UT	07-02-80		YES
W-5	"G"	BJ	UT	07-02-80		YES
W-6	"G"	BJ	UT	07-03-80		YES
42-11-1	"C"	BJ	UT	07-03-80		YES
W-151	"C"	BJ	UT	07-12-80		YES
42-11-2	"C"	BJ	UT	07-03-80		YES
42-11-3	"C"	BJ	UT	07-03-80		YES
42-11-4	"C"	BJ	UT	07-03-80		YES
42-11-5	"C"	BJ	UT	07-03-80		YES
42-11-6	"C"	BJ	UT	07-03-80		YES
W-7	"C"	BJ	UT	07-03-80		YES
W-4	"C"	BJ	PT	PBT		YES
41-11-1	"C"	BJ	PT	TEXAS PIPE		YES
41-11-2	"C"	BJ	PT	TEXAS PIPE		YES
41-11-3	"C"	BJ	PT	TEXAS PIPE		YES
W-182	"P"	BJ	PT	PBT		YES
41-11-4	"C"	BJ	PT	TEXAS PIPE		YES
W-71	"C"	BJ	PT	PBT		YES
41-11-5	"C"	BJ	PT	TEXAS PIPE		YES
W-5	"G"	BJ	PT	PBT		YES
W-6	"G"	BJ	PT	PBT		YES
42-11-1	"C"	BJ	PT	TEXAS PIPE		YES
W-151	"C"	BJ	PT	PBT		YES
42-11-2	"C"	BJ	PT	TEXAS PIPE		YES
42-11-3	"C"	BJ	PT	TEXAS PIPE		YES
42-11-4	"C"	BJ	PT	TEXAS PIPE		YES

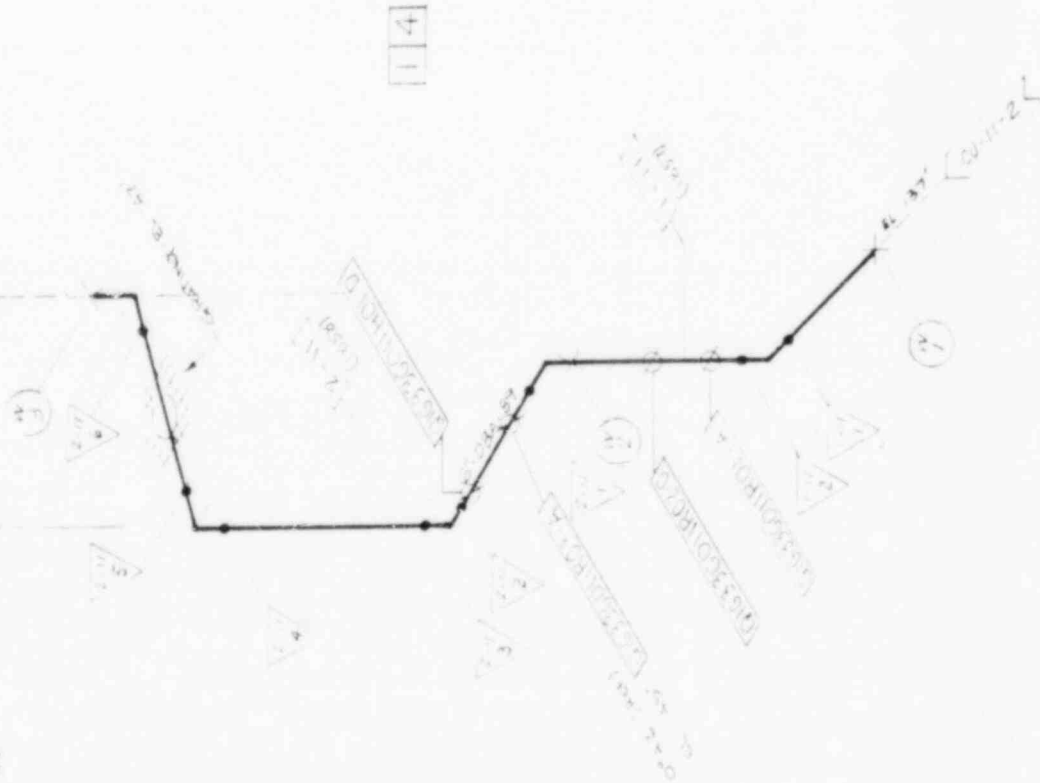
ORIGINAL COPY WHEN THIS IMPRINT IS USED		MPBL	GG-1	(JB-1)	IBSF NSO	ATLANTA	7
SYSTEM	LOCATION	REP	REP	REP	DATE	DATE	DATE
RWCU	DRYWELL	M-1342A	M-1079	M-1079	SK-M-1597	PAGE 1 of 2	7



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OR MAINTENANCE



PROJECT MP&L		GG-1		(JB-1)		MADE BY G.S. 04 77 S. GRAVES		USE M30 M.C. 1079		GENERAL - ELECTRIC		PAGE 2 OF 2	
SYSTEM RMU		LOCATION DRYWELL		MFG. ORG. M-1342A		MFG. ORG. M-1079		MFG. ORG. CU-11				PAGE 2 OF 2	



ORIGINAL COPY WHEN THIS IMPRINT IN RED. 3

GENERAL ELECTRIC

CW-0-2

WFL NO. IG359011	WELD DESCR	CODE CAT	TYPE EXAM	EXAM TIME PERIOD	ACCESS STATUS	TD MAYR COMPL
W 5	"G"	BJ	UT	07-11-80		YES
4 11-1	"C"	BJ	UT	07-11-80		YES
W 6	"C"	BJ	UT	07-11-80		YES
W 7	"E"	BJ	UT	07-12-80		YES
5 11-1	"C"	BJ	UT	07-12-80		YES
5 11-2	"C"	BJ	UT	07-12-80		YES
W 8	"G"	BJ	UT	07-12-80		YES
W 9	"G"	BJ	UT	07-12-80		YES
W 5	"G"	BJ	PT	PBT		YES
4 11-1	"C"	BJ	PT	TEXAS PIPE		YES
W 6	"C"	BJ	PT	PBT		YES
W 7	"E"	BJ	PT	PBT		YES
5 11-1	"C"	BJ	PT	TEXAS PIPE		YES
5 11-2	"C"	BJ	PT	TEXAS PIPE		YES
W 8	"G"	BJ	PT	PBT		YES

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OR MAINTENANCE

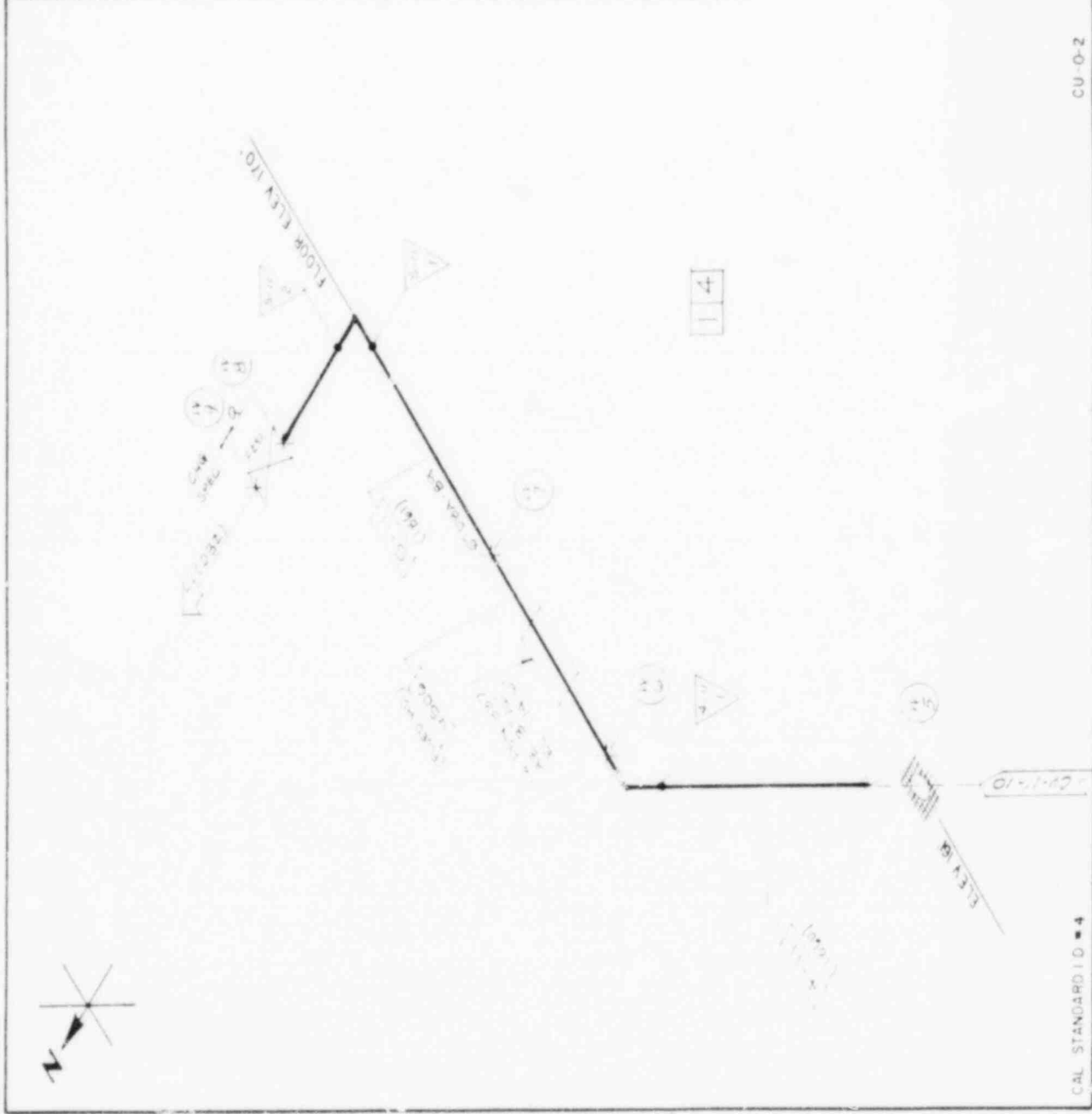
PROJECT
MPBL
WFL NO.
RMCU

GG-1 (JB-1)
LOCATION
DRYWELL
B CTMT

MADE BY
04-15-80
S GRAUS
WFL NO.
M-1079

ISSUE NO
ATLANTA
CU-11
PAGE 1 of 1

GENERAL ELECTRIC



CU-0-2

CAL STANDARD ID #4



WFL NO 633602	WELD DESIGN	COPE CAT	TYPE FRAME	TEAM TIME PERIOD	ACCESS LATCH	I.D. MADE COMPL
W-57	"G"	BJ	UT	07-11-80		YES
W-73	"C"	BJ	UT	07-11-80		YES
27-11-2	"C"	BJ	UT	07-11-80		YES
27-11-1	"C"	BJ	UT	07-11-80		YES
W-58	"C"	BJ	UT	07-11-80		YES
28-11-4	"C"	BJ	UT	07-11-80		YES
28-11-3	"C"	BJ	UT	07-11-80		YES
28-11-2	"C"	BJ	UT	07-11-80		YES
28-11-1	"C"	BJ	UT	07-11-80		YES
W-57	"G"	BJ	MT	PBT		YES
W-73	"C"	BJ	MT	PBT		YES
27-11-2	"C"	BJ	PT	TEXAS PIPE		YES
27-11-1	"C"	BJ	PT	TEXAS PIPE		YES
W-58	"C"	BJ	PT	PBT		YES
28-11-4	"C"	BJ	PT	TEXAS PIPE		YES
28-11-3	"C"	BJ	PT	TEXAS PIPE		YES
28-11-2	"C"	BJ	PT	TEXAS PIPE		YES
28-11-1	"C"	BJ	PT	TEXAS PIPE		YES
R03-C	HANGER	B K 2	VT			N/A
R02-A	HANGER	B K 2	VT			N/A
R01-A	HANGER	B K 2	VT			N/A

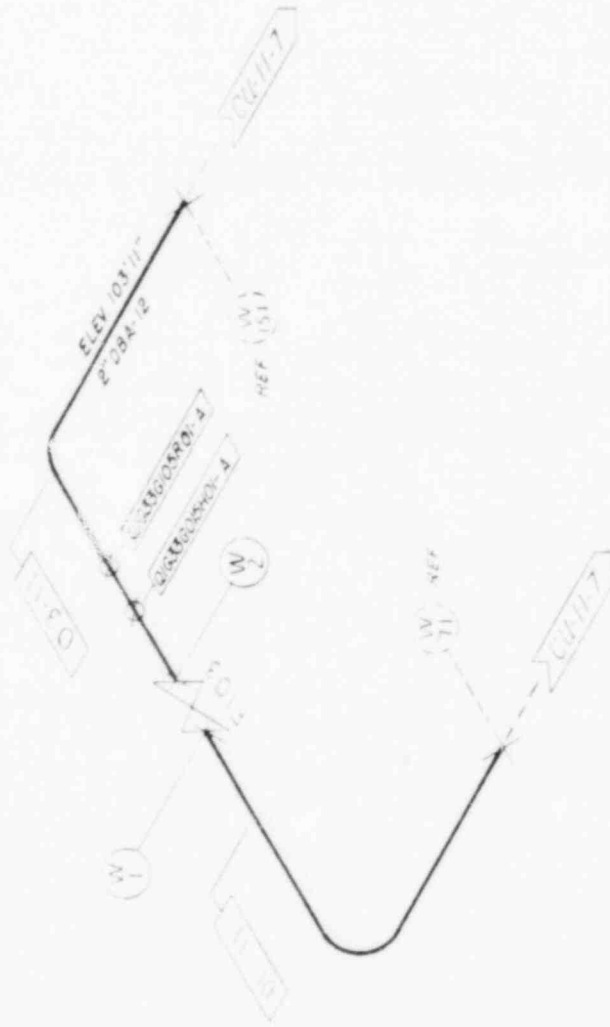
ORIGINAL COPY WHEN THIS INCIDENT IN REG. 3

GENERAL ELECTRIC

PROJECT	MPAL	GG-1	(JB-1)	MADE BY 04-16-80 S. GAUS	DATE 10-15-80
SERIAL	WCU	LOCATION	REP. ORG.	REP. NO.	PAGE 1 of 1
		DAYWELL	W-1342D	W-1079	12

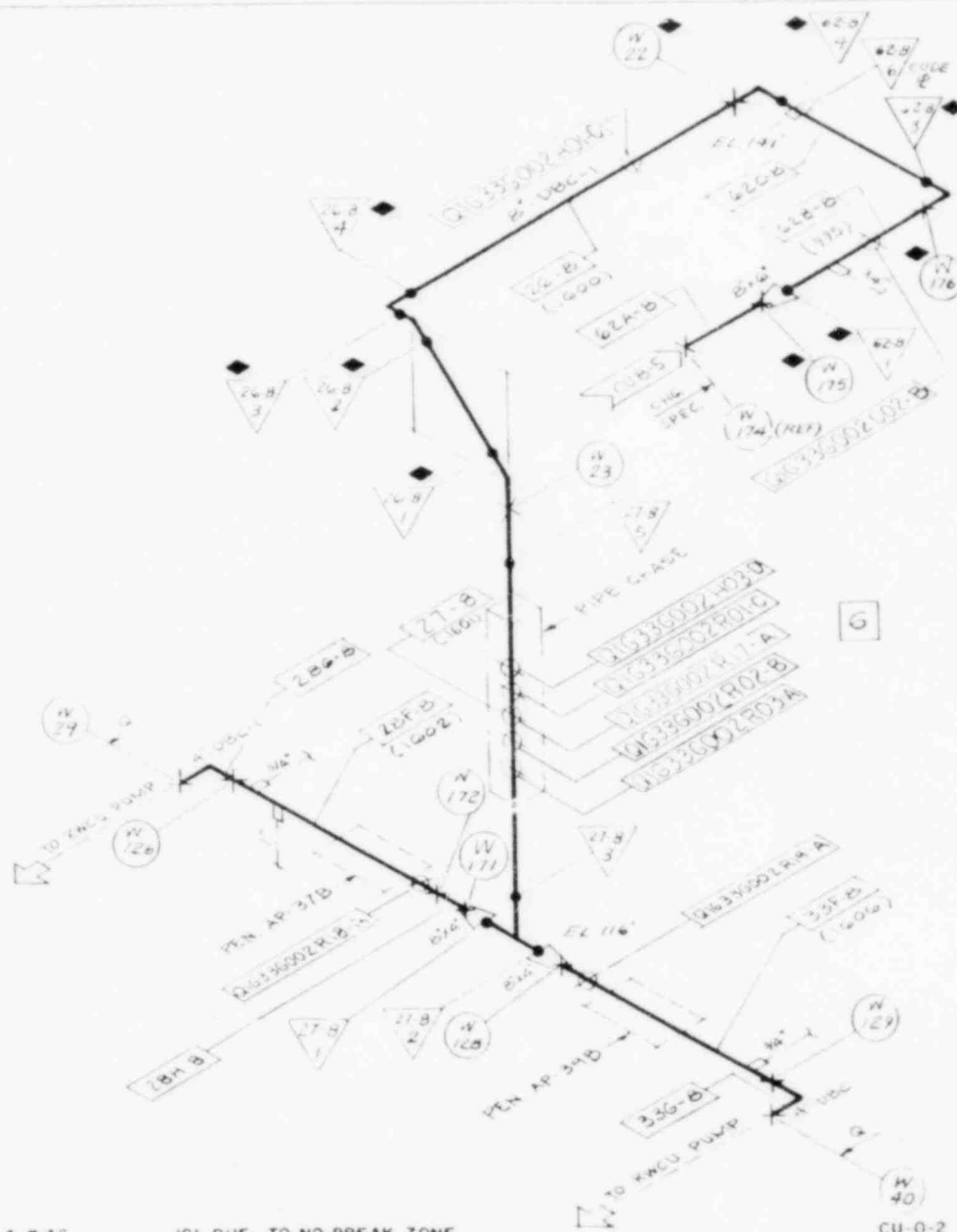
CU-0-2

CAL STANDARD 4

[illegible]

CU-0-2

FLOOR ELEV 140'
MAIN STEAM TUNNEL



WPL NO	WELD DESCR.	CODE CAT.	TYPE EXAM.	EXAM TIME PERIOD	ACCESS SATIS.	I.D. MARK COMPL.
IG336002						
W-175	"C"	CL III	UT	07-19-80		YES
62-8-1	"C"	CL III	UT	07-19-80		YES
W-176	"C"	CL III	UT	07-19-80		YES
62-8-3	"C"	CL III	UT	07-19-80		YES
62-8-4	"C"	CL III	UT	07-19-80		YES
W-22	"C"	CL III	UT	07-19-80		YES
26-8-4	"C"	CL III	UT	07-19-80		YES
26-8-3	"C"	CL III	UT	07-19-80		YES
26-8-2	"C"	CL III	UT	07-19-80		YES
26-8-1	"C"	CL III	UT	07-19-80		YES
C02-B	HANGER		VT			N/A
H01-C	HANGER		VT			N/A
H03-D	HANGER		VT			N/A
R01-C	HANGER		VT			N/A
R02-B	HANGER		VT			N/A
R03-A	HANGER		VT			N/A
R08-A	HANGER		VT			N/A
R09-A	HANGER		VT			N/A

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MP&L	GG-1	(JB-1)	DWN 04-20-78	18 SE NSO
SYSTEM	LOCATION	REF ISO	REF P&ID	DRAWING NO
RWCU	AUX BLDG	M-1342A	1079	CU-100
			SK-M-1597	



6

5

CU-11-B

CU-B-3

CRIT. PUMP
BB 211 212

CU-101

AP 33.8

AP 42.9

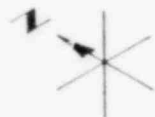
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FABRICATION, CONSTRUCTION
OR MAINTENANCE

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

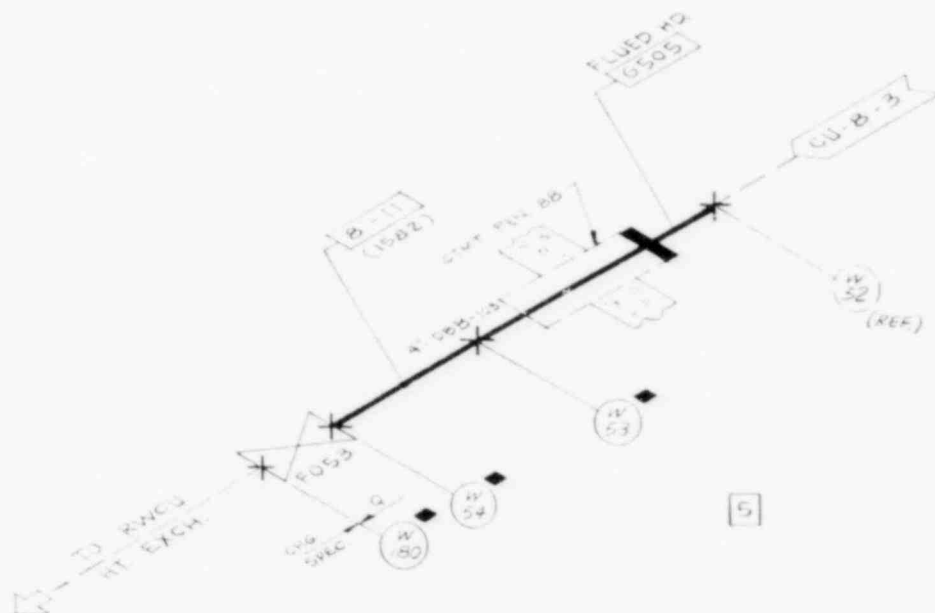
ORIGINAL COPY GIVEN THIS MONTH IN REQ 1

PROJECT		GENERAL		ELECTRIC	
MPBL	GG-1 (JB-1)	DATE	11-14-78	ISSUE	NSO
SYSTEM	RMCU PUMP DISCHG	LOCATION	CTMTA AUX BLDG	ATLANTA	ATLANTA
REVISION	CTMTA	DATE	11-10-79	BY	CU-O
	AUX BLDG		SK-M-1597		PAGE 10/1

REF MPLS 1633



FLOOR ELEV 140'
CONTAINMENT STEAM TUNNEL



MPL NR 1G33G00Z	WELD DESCR	CODE CAT.	TYPE EXAM.	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMP.
W-53	"E"	CF	UT	07-17-80		YES
W-54	"G"	CF	UT	07-17-80		YES
W-180	"G"	CF	UT	07-19-80		YES
W-53	"E"	CF	MT	02-06-81		YES
W-54	"G"	CF	MT	02-06-81		YES
W-180	"G"	CF	MT	02-06-81		YES

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

ORIGINAL COPY WHEN THIS IMPRINT IN RED

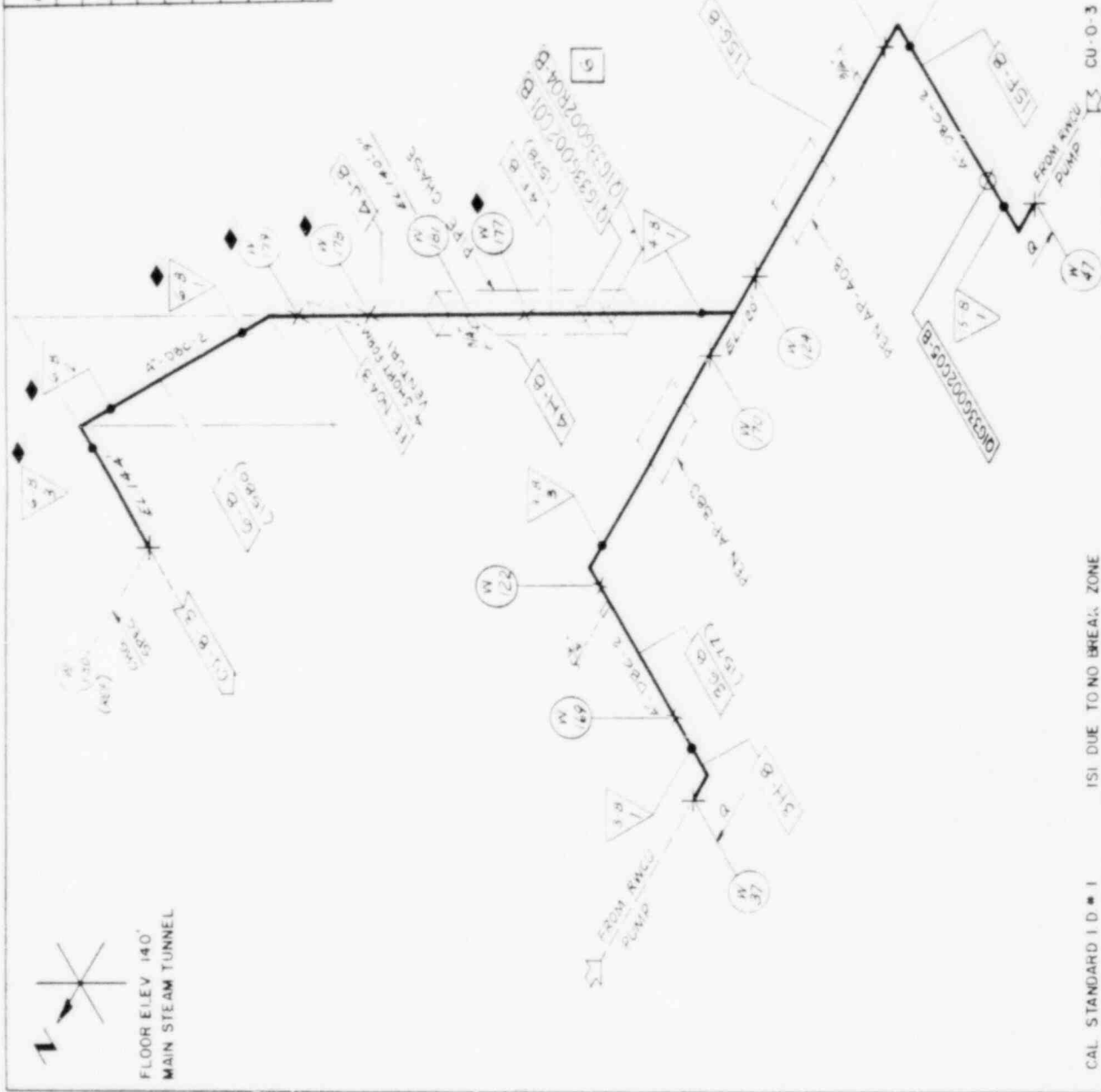
CAL STANDARD I.D. 30

LINE NO W THKNS
4" DBB - 103 .438"

CU-0-3

MP&L	GG-1	(JB-1)	DWNT 05-06-77 S GRAUS	18 SE NSO ATLANTA	DATE BY
SYSTEM RWCU	LOCATION CTMT	REF ISO M-1342A	REF P&ID M-1097 SK-M-1597	DWG. NR CU-II PAGE 1 of 1	SHT. B

WELD NO. /6836002	WELD DESC.	CODE CAT.	TYPE EXAM	EXAM TIME PERIOD	ACCESS SATIS	I.D. MARK COMPL.
W-177	"E"	CL III	UT	07-19-80		YES
W-178	"C"	CL III	UT	07-19-80		YES
W-179	"C"	CL III	UT	07-19-80		YES
6-B-1	"C"	CL III	UT	07-19-80		YES
6-B-2	"C"	CL III	UT	07-19-80		YES
6-B-3	"C"	CL III	UT	07-19-80		YES
RO4-B	HANGER		VT			N/A
CO4-B	HANGER		VT			N/A
CO5-B	HANGER		VT			N/A



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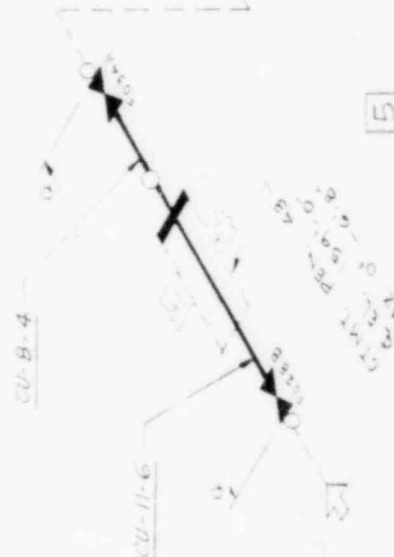
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MPBL	GG-1	(JB-1)
SYSTEM	LOCATION	REF. ISO
RWCU	AUX BLDG	M-1342A
DATE	OWN	1/5E NSO
1/5/80	S. GRAUS	ATLANTA
	REF. P&ID	DRAWING NO.
	M-1079	CU-101
	SK-M-1597	PAGE 1 of 1



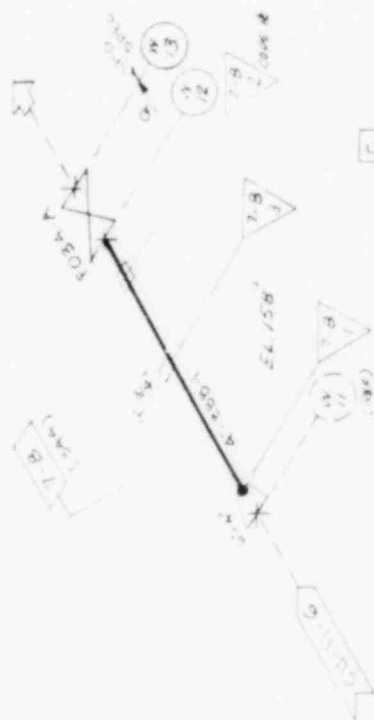
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OR MAINTENANCE

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



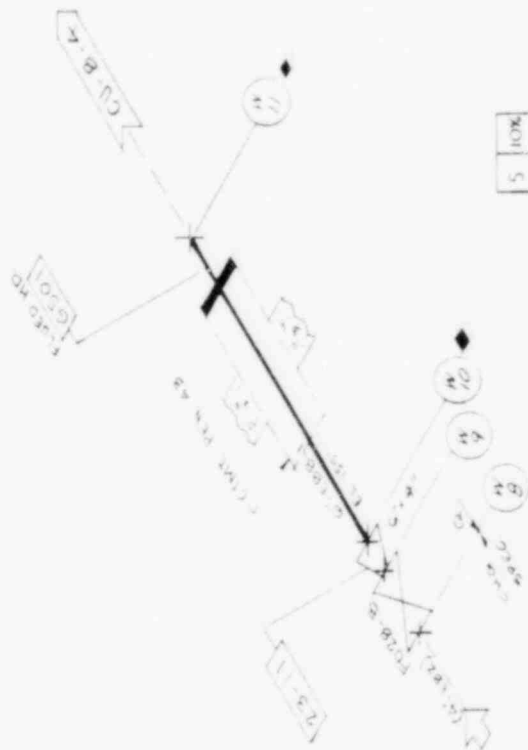
ORIGINAL COPY WHEN THIS IMPRINT IN RED

GENERAL ELECTRIC			
PROJECT	MP/L	GG-1 (JB-1)	ISSUE - NSO
SYSTEM	RWCU	TO MAIN	AT THE OLD
LOCATION	CTMT	AUX BLDG	CU-O
REF. NO.	M-1342F	SK M-159T	PAGE 1 of 1



PROJECT		GG-1 (JB-1)		MADE BY		ISSUE NO.		DATE	
MPBL				RIT-78		A-1		1	
SYSTEM		LOCATION		REV. NO.		CU-8		REV. NO.	
RWCU		AUX BLDG		M-1079		PAGE 101		4	
						SK-M-1597			

CU-0-4



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AMPL. N°	WELD DESCR	COUPL CAT	TYPE EXAM	EXAM TIME PERIOD	ACCPASS SATIS	ID NARR COMPL
16356008	W-10 "C"	CF	UT	09-08-80	YES	
	W-11 "C"	CF	UT	09-08-80	YES	
	W-10 "C"	CF	MT	02-06-81	YES	
	W-11 "C"	CF	MT	02-06-81	YES	

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GENERAL ELECTRIC

PROJECT	GG-1	(JB-1)	SUBJECT S GRAUS	ISSUE - NSO
SYSTEM	RWCW	LOCATION CTMT	REF. NO. M-1079	AUTO
			SK-M-1597	PAGE 1 of 1
				6

LINE NO	W THKNS
6" EBB-1	4.38"

CAL STANDARD 10 = 3.4

