M05-1036 SHEET 2 OF ---

1DØ01TC
DIESEL GENERATOR
FUEL OIL STORAGE TANK
K-2841

1DG01TC
DIESEL GENERATOR
FUEL OIL DAY TANK
K-2841

1DØ01PC
DIESEL GENERATOR
FUEL OIL TRANSFER PUMP
K-2826A

1E22S001
DIESEL ENGINE
GENERATOR SET SKID
K-2801

DIESEL GEN. BLDG. OUTDOORS

TEMP. 1D004MC

K-2882

K-2841

3"x1½" SW. NIPPLE

1DØ08AC 2

1DØ08MC

FA *

3"x1" SW. NIPPLE

80" (MAX.) ABOVE DIESEL GENERATOR BASE

1DØ09AC 2

3"x2" SW. NIPPLE

LT YI 2C YAL/1H

IDG01TC

4"x2" SW. NIPPLES

C306CP D105CP

3" TEE

1DØ10EC 2

1DØ11AC 2

1DØ07C

3"x2" SW. NIPPLES

L.O.

L.C.

1DØ12AC 2

1DØ00 8C

1TF99AC 2

1DØ06C

M05-1054 SHT. 40 F-2

DG BLDG. FLOOR DRN. SYS

1DØ10AC 2

1DØ10BD 2

*1DØ02MC

1DØ13BC ¾

1"x¾" RED.

K-2882 K-2801

*1DØ01MF

1DØ10DC 1

2"x1" RED.

K-2882 K-2801

*1DØ01MC

1DØ10CC 1

2"x1" RED.

K-2882 K-2801

DIESEL GENERATOR ENGINE

1E22S001

1DØ124A 3

FILL LINE

1DØ125A 3

1DØ126A 3

1DØ09MA

1DØ011A

D303CP C306CP

1DØ04AA 3

M05-1030 SHT1 C-4

1DØ011B

1DØ09MB

D303CP C306CP

1DØ04AB 3

M05-1030 SHT1 C-8

1DØ011C

1DØ09MC

D303CP C306CP

VALVE PIT

1TF108A 3

M05-1054 SHT.43 F-2

1DØ06MC

1DØ03BC 1½

1DØ17AC 1½

FCR-28727-'N' SLOPE

1DØ127AC ¾

1DØ020C

1DØ04AC 3

2"x¾" RED.

¾"x½" NIPPLE

1DØ22AC ¾

1DØ019C

P

TEMP. 1DØ05MC

3"x2" SW. NIPPLE

1DØ013C

1DØ04BC 3

L.O.

K-2882

K-2841

OUTDOOR

DIESEL GEN. BLDG.

DIESEL GENERATOR BLDG. OUTDOORS

1DØ05AC 3

1DØ07MC

VENT

FA *

SET @ 55 PSIG

1DØ111A 1

R

S

1½ x 1" RED.

1DØ005C

1DØ015C

1DØ18AC 1

L.C.

1DØ014C

1DØ112A ¾

1½" x ¾" RED.

1DØ03AC 1½

LT 1C YIAL

1DØ01TC

IHE DØ009 3

IHE-P601

PI 1F

1DØ03MC (TEMP.)

1DØ114A 1½

1DØ01BC 1½

1½ x 1" RED.

1DØ001C

1DØ002C

1DØ113A 1

L.O.

1DØ016C

1TFG8AC 4

1DØ19AC 4

L.C.

D105CP C306CP

M05 1054 SHT.42 F-8

DG BLDG. FLOOR DRN SYS

4"x2" SW NIPPLE

DIV III

1DØ02BC 2

L.O.

1DØ02AC 2

1DØ003C

1DØ20AC ¾

1DØ017C

2"x¾ RED

2"x1½" RED.

1DØ01PC

C306CP

TPI DØ025 X LM

D105CP

P

1DØ21AC ¾

1DØ018C

1DØ21AF ¾

1DØ027C

1DØ122AC ¾

1DØ025C

NOTE: * DENOTES FURNISHED WITH ASSOCIATED EQUIPMENT

NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE:
UNLESS OTHERWISE NOTED, SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
DIESEL GENERATOR OIL SYSTEM
SHEET 43 OF 111

M05-1037 SHEET — OF —

NOTE:
- TYPICAL DRAIN LINE FROM POOL SCUPPER (WAVE SUPPRESSOR)
- TYPICAL DRAIN LINE FROM POOL SCUPPER (WAVE SUPPRESSOR) FOR DRAW DOWN WATER ELEV. 826'-11"
- TYPICAL DRAIN LINE FROM POOL SKIMMER (ADJUSTABLE WEIR/ POOL SURFACE CLEANER)
- TYPICAL DRAIN LINE FROM POOL LINER LEAK DETECTION SEE S & L DWGS. A27-1004-01A, A27-1004-02A, A27-1004-03A, A27-1004-04A

SET @ 250 PSIG — C106CP — 6"X8" EXP. FLANGE TO SUPPRESSION POOL (M05-1069 SHT1 D-6) — 4"X6" EXP. FLANGE — 1FCB3BA 8 — 1FC085A — 1FCB3AA 6 — FROM RHR SYSTEM (M05-1075 SHT1 F-2)

1FC01BA 10 — 1FC23CA 10 — 1FC01BA1 — 1FC23BA10 — 1FC23AA 12

1FC43AA 12 — 1FC44AA 12 — 1FC45AA 4

SLOPE 1/8" PER FT (MIN)

1FC27BA 4 — 1FCD86A — L.C.

1FC01GA12

FT 10E Y/FAH — CONT. BLDG. FLOOR DRAIN SUMP (M05-1047 SHT.3 D-4) — 1FC128C — 1FC129C — 1FC130B

1FC04AA 2½ — 1FC05AA 4 — 1FC06AA 2½ — 1FC019A — 1FC018A — 1FCB1AE ¾ — 1FC083E — 1FC19AA 4 — 1FC18OA — 1FC20AA 2½ — 1FC21AA 4 — 1FC22AA 2½ — 1FC24AA 4 — FC003A — 1FC25AA 12 — 1FC083G — 1FC021A — 1FCB1AG ¾ — 1FC020A — 1FC022A — 1FCB1AJ ¾ — 1FC025A — 1FC083J — 1FC26AA 2½ — 1FC27AA 2½ — 1FC28AA 6 — 1FC29AA 2½ — 1FC7A 2½ — 1FC30AA 2½ — 1FC31AA 6 — 1FC32AA 2½ — 1FC130H — 1FC33AA 2½

LS 2A AL — LS 2B AL — FT 10C Y/FAH — 1FC128B — 1FC129B

1FC03AA 2½ — 1FC01AA 4 — 1FC02A 2½

K-2943 — K-2882

REACTOR VESSEL
STEAM SEPARATOR STORAGE POOL
NORMAL WATER ELEV. = 827'-3"
DRAW DOWN WATER ELEV. = 827'-1" (REACTOR POOL DRAIN)
LOW WATER ELEV. = 827'-2"
BOTTOM OF POOL ELEV. = 803'-3"

DIFFUSER — 1FC084E — 1FCB2AE ¾ — 1FC110AA½ SYPHON BREAKER (TYPICAL)

DRAIN FROM BOTTOM OF POOL — 1FC084G — 1FCB2AG ¾ — 1FC109AA½

REACTOR VESSEL POOL
NORMAL WATER ELEV. = 827'-3"
BOTTOM OF POOL ELEV. = 803'-3"

DRYWELL HEAD SEE DETAIL "A"

CONTAINMENT TRANSFER POOL
NORMAL WATER EL. 827'-11"
DRAWDOWN (REACTOR POOL DRAIN) WATER EL. 826'-11"
BOTTOM OF POOL EL. 803'-3"

BOTTOM OF AREA EL. 784'-9"

1FC084J — 1FCB2AJ ¾ — 1FC108AA1½

REACTOR VESSEL
STEAM DRYER STORAGE POOL
NORMAL WATER ELEV. = 827'-3"
DRAW DOWN WATER ELEV. = 826'-11" (REACTOR POOL DRAIN)
LOW WATER ELEV. = 803'-3"
BOTTOM OF POOL ELEV. = 803'-3"

FUEL STORAGE AREA
BOTTOM OF AREA = EL. 784'-9"

1FC130J — 1FC35A 2½ — 1FC36A 2½ — 1FC37A 6 — 1FC38A 2½ — 1FC39A 2½ — 1FC40A 2½ — 1FC41A 6 — 1FC42A 2½ — 1FCC6A 2½ — 1FCB2AK ¾ — 1FC084K — 1FC025B — 1FC083K — 1FCB1AK ¾ — 1FC108AB½

CONTAINMENT BLDG FLOOR DRAIN SUMP (M05-1047 SHT.3 C-7)

1FC01BB 10 — 1FC01GB12 — 1FC44AB 12 — 1FC23AB 12 — 1FC23CB 10 — 1FC23BB10 — 1FC01BB — 1FC27BB 4 — 1FC0866 — 1FC27C 6

SLOPE 1/8" PER FT. (MIN.) — SLOPE 1/8" PER FT. (MIN.)

1FC01AB 4 — 1FC03AB 2½ — 1FC110AB½ — 1FCB2AF ¾ — 1FC084F — 1FC109AB½ — 1FCB2AH ¾ — 1FC084H — 1FC130D — 1FC108AB½

DRAIN FROM BOTTOM OF POOL

FT 10D Y/FAH — CONT. BLDG. FLOOR DRAIN SUMP (M05-1047 SHT.3 D-5) — 1FC129A — 1FC128A — 1FC130C

1FC04AB 2½ — 1FC05AB 4 — 1FC06AB 2½ — 1FC01BB — 1FC48AB 12 — 1FCB1AF ¾ — 1FC083F — 1FCH5A ¾ — 1FC25AB 12 — 1FC003B — 1FC19AB 4 — 1FC141 — 1FC20AB 2½ — 1FC21AB 4 — 1FC22AB 2½ — 1FC24AB 4 — 1FC083H — 1FC021B — 1FCB1AH ¾ — 1FC020B — 1FC26AB 2½ — 1FC27AB 2½ — 1FC28AB 6 — 1FC29AB 2½ — 1FC30AB 2½ — 1FC32AB 2½ — 1FC31AB 6 — 1FCB4A 2½ — 1FC130K — 1FCB3AB 2½ — 1FC045AB 10 — 1FC022B

SET @ 250 PSIG — C106CP — 6"X8" EXP. FLANGE TO SUPPRESSION POOL (M05-1069 SHT1 D-3) — 4"X6" EXP. FLANGE — 1FCB3BB 8 — 1FC085B — 1FCB3AB 6 — FROM RHR SYSTEM (M05-1075 SHT2 F-8)

CONTAINMENT ISOLATION SIGNAL — IHS FC090 2 — IHS FC091 1 — IH13-P800

1FC158 — H.P. VENT — 1FC100A ¾ — MO 1FC037 — MO 1FC036 — 1FC159 — 1FC101A ¾ FROM FPC&C HEAT EXCHANGERS (M05-1037 SHT.2B-7) — 1FC17A 8 — 1FC157

EMBEDDED IN CONCRETE — 1FC08A ¾ — P IMC-52 — 1FC17B 8 — C140CP — B140CP — 1FC156 — 1FC17C 8 — 1FCC8D 2 — 1FCC8C ¾ — 1FC180 — 1FCC8B ½ — 1FC092 — L.P DRAIN — B140CP — C140CP

CONTAINMENT BLDG. — FUEL BLDG.

1FC17D 10 — 1FC69A 6

REFUELLING BELLOWS SPEC. K-2893 — AZ:180° — AZ:205°30' — AZ:0° — AZ:16° — AZ:157°30' — AZ:337°30' — D-100

1FCG8AC 2½ — 1FCG8AA 2½ — 1FCG7AA 2½ — 1FCG8AB 2½ — 1FC133 — 2½"X1" RED. — 1FC06MA — 1FC134 — 1FC137A — 1FC06MC — 1FC06MD — 1FC04MB — 1FC04MC — 1FC04MA — FT 10A Y/FAH — 1FCG8AD 2½ — 1FC131 — 1FC132 — 2½"X1" REDS. — 1FC06MB — 1FCG7AB 2½ — 2½"X1" RED. — FT 10B Y/FAH — 1FC137B — DRYWELL EQUIP. DRAIN SUMP (M05-1046 SHT.4 C-6) — 1RE95A 4

1FC160 — 1FC102A ¾

DETAIL "A"

CONTAINMENT ISOLATION SIGNAL — IHS FC108 X — LM — AUX. BLDG. H.P. VENT — TURBINE BLDG. — MO 1FC027 — 1FC107 — 1FCE1A ¾ — 1FC57D 10 — D140 D100 CP — CONDENSER (M05-1011 SHT1 B-2) — IHS FC093 2 — C140CP B140CP — 1FCB57B 10 — 1FC105 — L.R DRAIN — CYCLED CONDENSATE FILL (M05-1012 SHT2 E-5) — 1FCE2A ¾ — 1FC108 — 1FCB7A 10 — MO 1FC007 — MO 1FC008 — P IMC-53 — C140CP B140CP — 1FCC9A ¾ — B140CP — C140CP — (M05-1037 SHT2 C-2 TO SURGE TANKS) — 1FCB7C 10 — 1FC01E 10 — 1FC02M — 1FC135 — 1FC093 — 1FCC9D 2 — 1FCC9C ¾ — 1FC181 — 1FCC9B ½ — L.P DRAIN — CONTAINMENT BLDG — FUEL BLDG — 1FC01C 10 — 1FC01H 12 — EMBEDDED IN CONCRETE

1FC69A 6 — 1FC135 — A E-2 — H.P. VENT — 2 — IH13-P800 — IH13-P800

NUCLEAR SAFETY RELATED ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE:
THE P&I D/C&I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9037 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
FUEL POOL COOLING AND CLEAN UP
SHEET 44 OF 111

M05-1037-002

REVISION 18
OCTOBER 2016

IFCOITA & IFCOITB
FUEL POOL COOLING
AND CLEAN UP
SURGE TANK 1A & 1B
K-2943

IFCOITA

IFCOITB

CASK STORAGE POOL
NORMAL WATER ELV = 754'-0"
LOW WATER ELV. = 742'-6"
BOTTOM OF POOL = 712'-0"

FUEL TRANSFER POOL
NORMAL WATER ELV = 754'-0"
BOTTOM OF POOL ELV = 712'-0"

SPENT FUEL STORAGE POOL
NORMAL WATER EL 754'-0"
BOTTOM OF POOL EL 712'-0"

NOTE:
- TYPICAL - DRAIN LINE FROM POOL SCHIPPER (WAVE SUPPRESSOR)
- TYPICAL - DRAIN LINE FROM POOL SKIMMER (ADJUSTABLE WEIR/POOL SURFACE CLEANER)
- TYPICAL - DRAIN LINE FROM POOL LINER LEAK DETECTION. SEE S & L DWGS. A2B-1000-04A, A2B-1000-05A, A2B-1000-07A, A2B-1000-08A

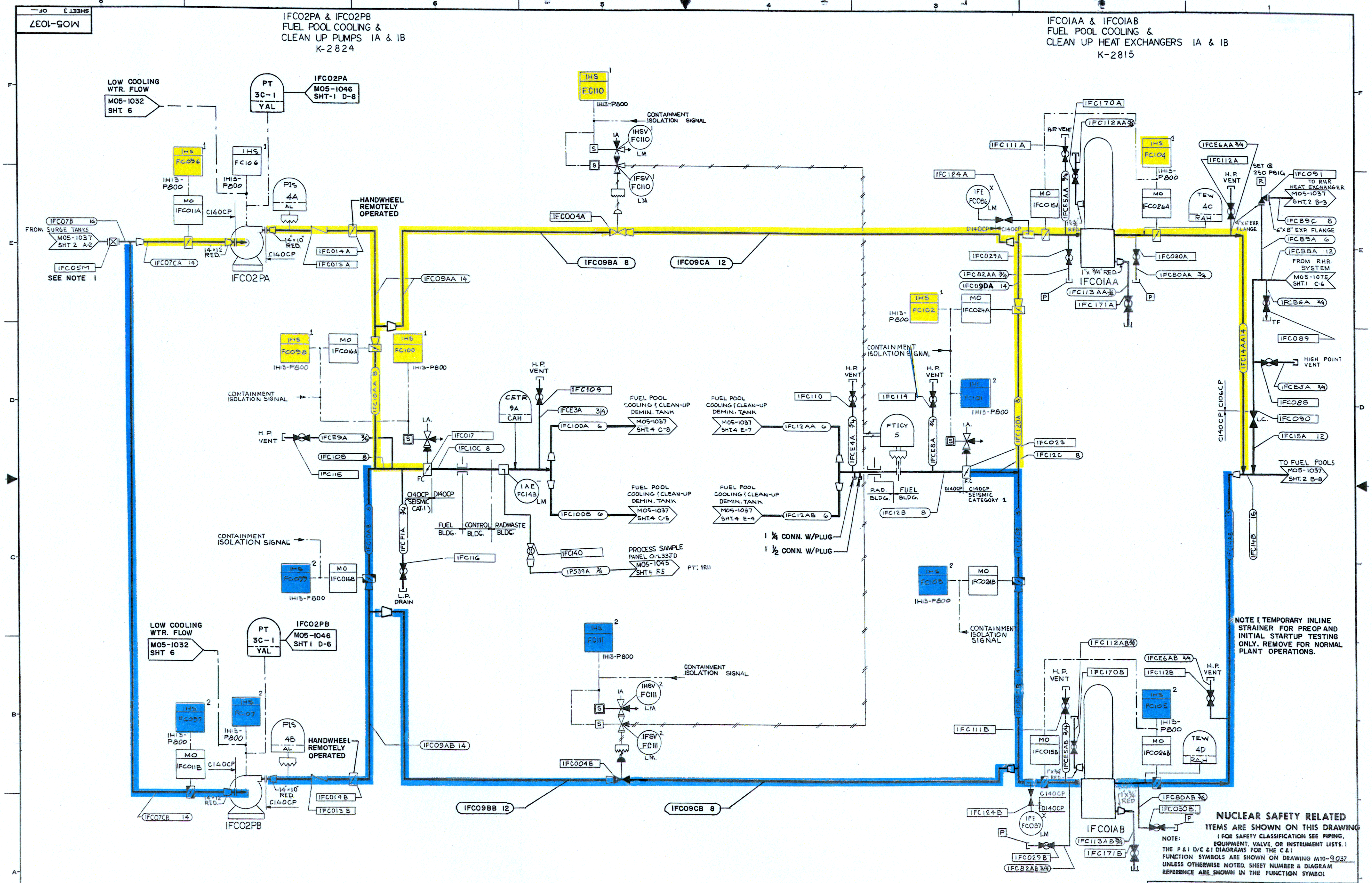
NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING (FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1051 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S
FUEL POOL COOLING AND CLEAN UP
SHEET 45 OF 111

REV. 2 SEPT. 1990



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
FUEL POOL COOLING AND CLEAN UP
SHEET 46 OF 111

REVISION 9
NOVEMBER 2000

M05-1052

ISX01PA
SHUTDOWN SERVICE
WATER PUMP 1A
K-2828

OVG07SA
HYDROGEN RECOMBINER
ROOM 1A COILCABINET
K-2902

ISX01FA
SHUTDOWN SERVICE
WATER STRAINER 1A
K-2880

OVC13CA
CONTROL ROOM HVAC
SYSTEM CHILLER
K-2905

IVH07SA
SSW PUMP ROOM 1A
COIL CABINET
K-2902

IDG11AA & IDG12AA
DIESEL GENERATOR
HEAT EXCHANGERS
K-2861

IVY03S
ECCS RHR HEAT
EXCHANGER ROOM 1A
COIL CABINET
K-2902

IE12B001A
RHR HEAT
EXCHANGER 1A
K-2801

OVG05SA
SBGT ROOM 1A
COIL CABINET
K-2902

IVX13SA
INVERTER ROOM 1A
COIL CABINET
K-2902

IVY09S
MSIV LEAKAGE
ROOM COIL CABINET
K-2902

OPR13A
SGTS EXHAUST HI-RANGE
RADIATION MONITOR COOLER
K-2882

SX DIVISION 1

NOTE:
THE P&I D/CAI DIAGRAMS FOR THE CAI FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-0052 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

NOTE:
ALL RELIEF VALVES ARE FOR THERMAL RELIEF AND ARE SET AT 200 PSIG, EXCEPT FOR 1SX208A, WHICH IS SET FOR 175 PSIG.

NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING EQUIPMENT, VALVE, OR INSTRUMENT LISTS)

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY PAID'S-
SHUTDOWN SERVICE WATER
SHEET 47 OF 111

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REVISION 8
AUGUST 1999

MO5-1052
SHEET 2 OF —

1E12B001B
REHEAT EXCHANGER IB
K-2801

ISX01PB
SHUTDOWN SERVICE
WATER PUMP IB
K-2828

IDG11AB & IDG12AB
DIESEL GEN. IB
HEAT EXCHANGERS
K-2861

ISX01FB
SHUTDOWN SERVICE
WATER STRAINER IB
K-2880

OVC13CB
CONTROL ROOM HVAC
SYSTEM CHILLER
K-2905

IVH07SB
SSW PUMP ROOM IB
COIL CABINET
K-2902

IVY05S
ECCS RHR HEAT
EXCHANGER ROOM IB
COIL CABINET
K-2902

IVX13SB
INVERTER ROOM IB
COIL CABINET
K-2902

IVX14S
DIVISION IV INVERTER
ROOM COIL CABINET
K-2902

OVG05SB
SBGT ROOM IB
COIL CABINET
K-2902

OVG07SB
HYDROGEN RECOMBINER
ROOM IB COIL CABINET
K-2902

IVY10A
MSIV LEAKAGE OUTBOARD
ROOM COIL CABINET
K-2902

SX DIVISION 2
INVERTER DIV. 4 ROOM
COOLING FAN INTERLOCK

NOTE
THE P&I D/C&I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9052 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL

NOTE ⊗
THIS VALVE IS IN THE CLOSED POSITION AND THE POWER REMOVED BY PLACING THE CIRCUIT BREAKER IN THE OPEN POSITION.

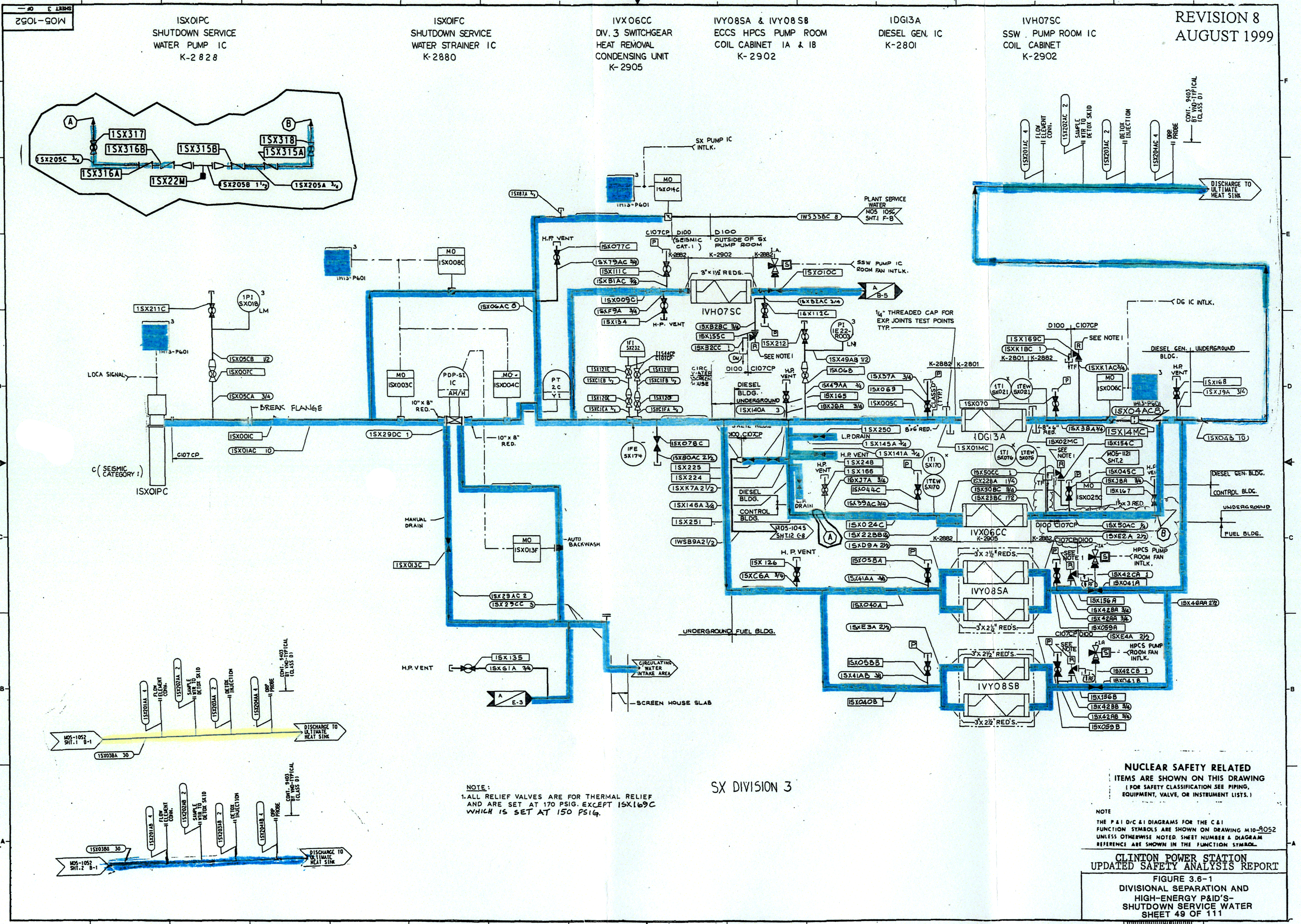
NOTE:
ALL RELIEF VALVES ARE FOR THERMAL RELEIF AND ARE SET AT 200 PSIG. EXCEPT FOR 1SX208B, WHICH IS SET FOR 175 PSIG.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1

DIVISIONAL SEPARATION
HIGH-ENERGY P&ID'S
SHUTDOWN SERVICE WATER
SHEET 48 OF 111

REVISION 8
AUGUST 1999



NOTE:
1. ALL RELIEF VALVES ARE FOR THERMAL RELIEF AND ARE SET AT 170 PSIG. EXCEPT ISX169C WHICH IS SET AT 150 PSIG.

NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE
THE P&I D/C &I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9052 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
SHUTDOWN SERVICE WATER
SHEET 49 OF 111

REV. 2 SEPT. 1990

AMENDMENT 37
MARCH 1986

M05-1052
SHEET 4 OF 5

IVX06CA
DIV. 1 SWITCHGEAR
HEAT REMOVAL
CONDENSING UNIT
K-2905

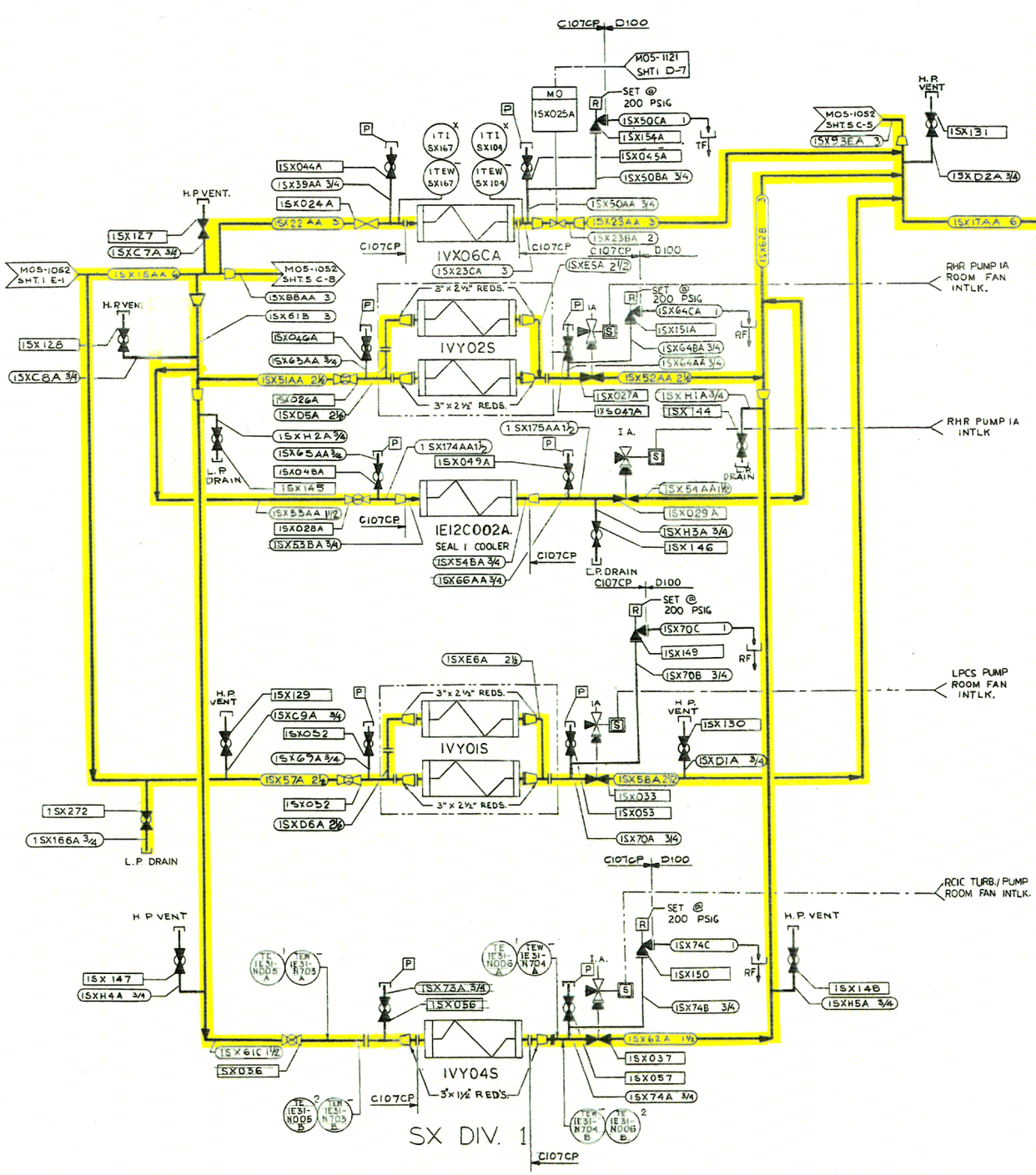
IVY02S, IVY06S & IVY07S
ECCS RHR IA IB & IC
PUMP ROOM COIL CABINETS
K-2902

IE12C002A, IE12C002B & IE12C002C
RHR PUMP SEAL COOLERS
IA, IB & IC
K-2801

IVX06CB
DIV. 2 SWITCHGEAR
HEAT REMOVAL
CONDENSING UNIT
K-2905

IVY01S
ECCS LPCS PUMP ROOM
COIL CABINET
K-2902

IVY04S
ECCS RCIC PUMP
ROOM COIL CABINET
K-2902



NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1052 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

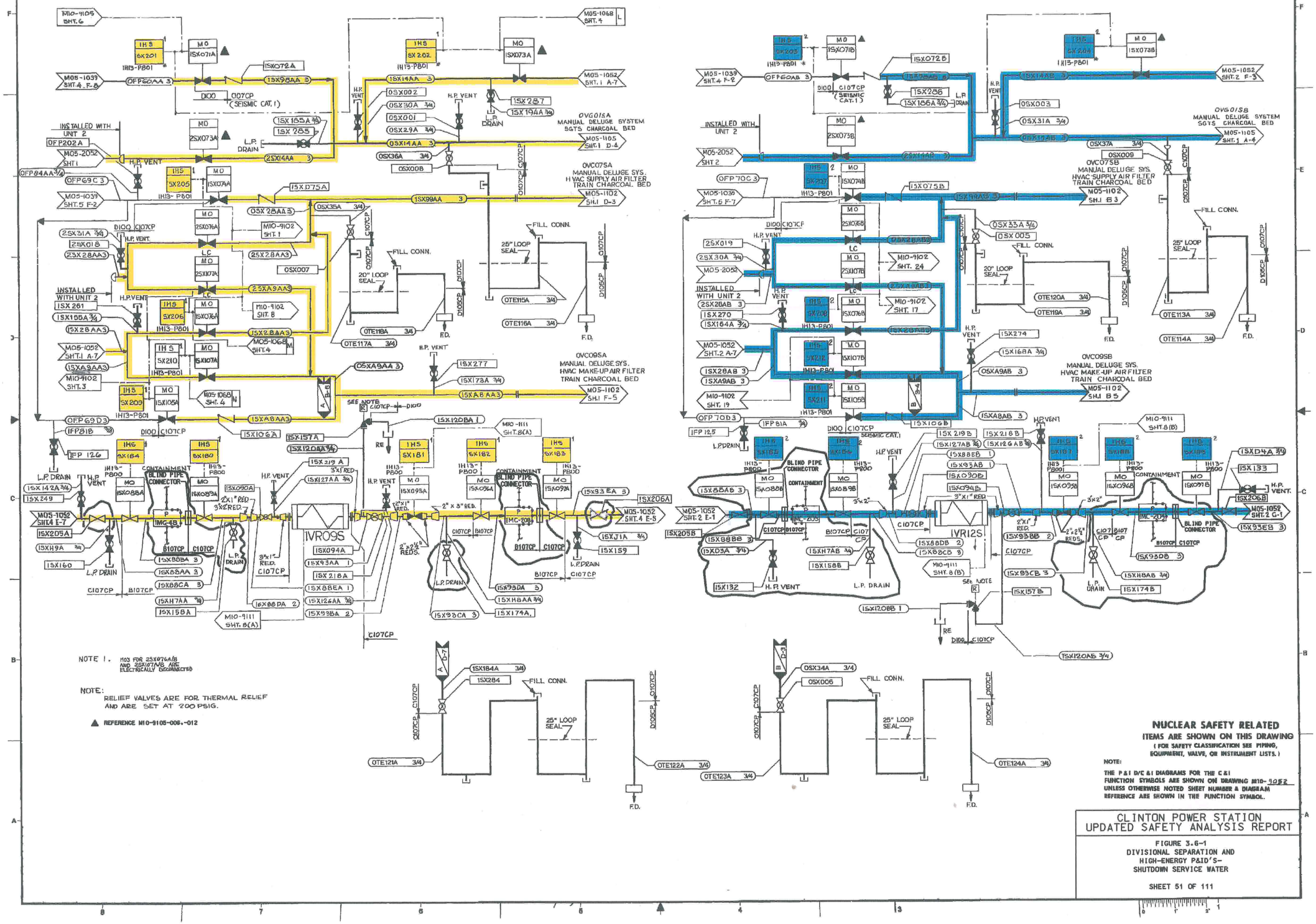
FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
SHUTDOWN SERVICE WATER
SHEET 50 OF 111

MO5-1052

SHEET 5 OF

LVR09S & IVR12S
COMBUSTIBLE GAS
CONTROL SYSTEM ROOM
COOLING COIL CABINET
K-2902

REVISION 12
JANUARY 2007



NOTE 1. M03 FOR 2SX076A/B AND 2SX107A/B ARE ELECTRICALLY DISCONNECTED

NOTE:
RELIEF VALVES ARE FOR THERMAL RELIEF AND ARE SET AT 200 PSIG.

▲ REFERENCE M10-9105-006,-012

NUCLEAR SAFETY RELATED ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE:
THE P&I D/C &I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9052 UNLESS OTHERWISE NOTED SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
SHUTDOWN SERVICE WATER

SHEET 51 OF 111

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M05-1063

OHG01SA
HYDROGEN RECOMBINER
K-2862

1HG02CA & 1HG02CB
CGCS HYDROGEN COMPRESSORS
K-2863

DRYWELL BULKHEAD EL.803'-5¼"

℄ R.P.V.

DRYWELL WALL

1HG02CB

1HG02CA

PDTI 1B

PDTI 1A

CONTAINMENT

SUPPRESSION POOL

VENTS

WEIR WALL

WEIR WALL ANNULUS

HORIZONTAL SPARGER FURN. BY P.C.

ISOLATION SIGNAL

BLIND FLG.

BLIND FLG TO BE REMOVED AFTER HYDRO. TEST (TYP.)

L.P. DRAIN

AUX. BLDG.

CONTROL BLDG.

INSTALLED WITH UNIT 2

OHG01SA

TROUBLE

NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

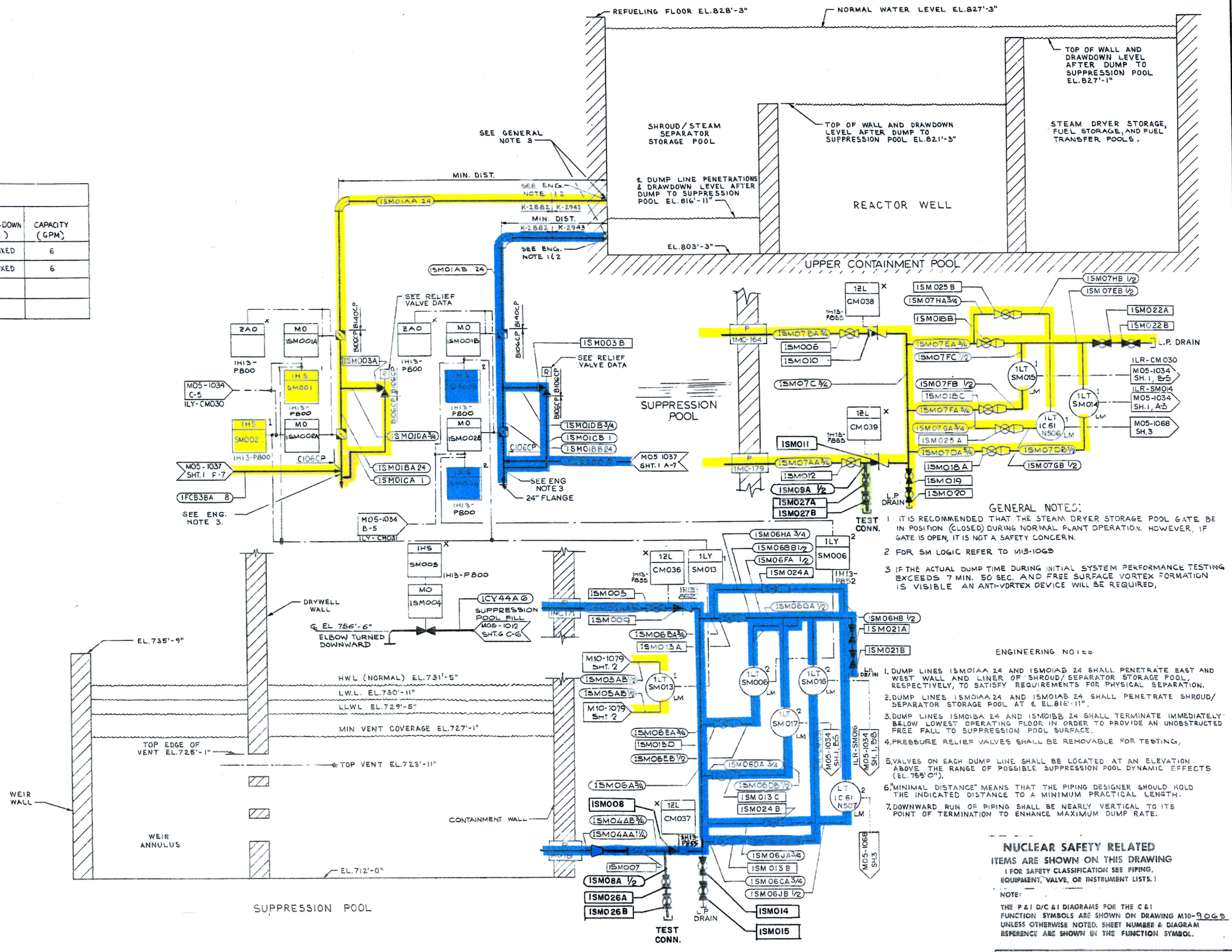
NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9063 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

NOTE: 1. WHEN UNIT 2 IS INSTALLED, VALVES 1HG006 AND 1HG007 SHALL BE LOCKED CLOSED, AND VALVES 2HG006 AND 2HG007 SHALL BE LOCKED OPEN.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
COMBUSTIBLE GAS CONTROL SYSTEM
SHEET 52 OF 111

RELIEF VALVE DATA					
VALVE NUMBER	MAKE & TYPE	SIZE (INCHES)	VALVE SET	BLOW-DOWN (PSI)	CAPACITY (GPM)
1SM003A	DRESSER ¾-1975C	1x3/4	15 PSIG	FIXED	6
1SM003B	DRESSER ¾-1975C	1x3/4	15 PSIG	FIXED	6



GENERAL NOTES:

1. IT IS RECOMMENDED THAT THE STEAM DRYER STORAGE POOL GATE BE IN POSITION (CLOSED) DURING NORMAL PLANT OPERATION. HOWEVER, IF GATE IS OPEN, IT IS NOT A SAFETY CONCERN.
2. FOR SM LOGIC REFER TO M15-1069
3. IF THE ACTUAL DUMP TIME DURING INITIAL SYSTEM PERFORMANCE TESTING EXCEEDS 7 MIN. 50 SEC. AND FREE SURFACE VORTEX FORMATION IS VISIBLE AN ANTI-VORTEX DEVICE WILL BE REQUIRED,

ENGINEERING NOTES

1. DUMP LINES 1SM01AA 24 AND 1SM01AB 24 SHALL PENETRATE EAST AND WEST WALL AND LINER OF SHROUD/SEPARATOR STORAGE POOL, RESPECTIVELY, TO SATISFY REQUIREMENTS FOR PHYSICAL SEPARATION.
2. DUMP LINES 1SM01AA 24 AND 1SM01AB 24 SHALL PENETRATE SHROUD/SEPARATOR STORAGE POOL AT ℄ EL.816'-11".
3. DUMP LINES 1SM01BA 24 AND 1SM01BB 24 SHALL TERMINATE IMMEDIATELY BELOW LOWEST OPERATING FLOOR IN ORDER TO PROVIDE AN UNOBSTRUCTED FREE FALL TO SUPPRESSION POOL SURFACE.
4. PRESSURE RELIEF VALVES SHALL BE REMOVABLE FOR TESTING.
5. VALVES ON EACH DUMP LINE SHALL BE LOCATED AT AN ELEVATION ABOVE THE RANGE OF POSSIBLE SUPPRESSION POOL DYNAMIC EFFECTS (EL. 759'0").
6. "MINIMAL DISTANCE" MEANS THAT THE PIPING DESIGNER SHOULD HOLD THE INDICATED DISTANCE TO A MINIMUM PRACTICAL LENGTH.
7. DOWNWARD RUN OF PIPING SHALL BE NEARLY VERTICAL TO ITS POINT OF TERMINATION TO ENHANCE MAXIMUM DUMP RATE.

NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE:

THE P&I D/C &I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9069 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

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FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
SUPPRESSION POOL MAKEUP
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M05-1070

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REVISION 8
DECEMBER 1997

1E32B001A, 1E32B001E, 1E32B001J & 1E32B001N M S I V HEATERS K-2801

1E32C001 BLOWER K-2801

1E32C002B & 1E32C002F BLOWERS K-2801

NOTES:

1. CHECK VALVES SHALL BE INSTALLED IN A HORIZONTAL RUN WHICH IS AT LEAST 15-0" BELOW THE LOW PRESSURE MANIFOLD OR PIPING LOW POINT TO PERMIT DRAINAGE AT THE MANIFOLD OR PIPING AT SUB-ATMOSPHERIC PRESSURE.
2. HEATER THERMOCOUPLES SHALL BE LOCATED AT THE OUTLET END UNDER THE PIPING INSULATION AND NO GREATER THAN 12" FROM THE HEATER ELEMENTS. ANCHOR AND GUIDES SHALL BE PROVIDED ON THE HEATER SECTION OF PIPE TO LIMIT PIPE DEFLECTION TO 1/4" OR LESS.
3. THESE VALVES SHALL BE LOCATED AS CLOSE TO EACH OTHER AS POSSIBLE AND AS CLOSE AS PRACTICAL TO THE MAIN STEAM LINES.
4. DISCHARGE TO THE INLET OF SGTS TRAIN.
5. FLOW MEASURING ROTAMETER TO BE INSTALLED WITH A BLANK ORIFICE PLATE ONLY DURING SYSTEM PREOPERATIONAL AND FULL FUNCTION TESTS. REMOVE ROTAMETER, AND REPLACE BLANK ORIFICE PLATE WITH FULL PIPE I.D. SPACER FOR NORMAL OPERATION. DURING HYDROSTATIC TESTING, THE ROTAMETER SHALL BE REMOVED AND THE BLANK ORIFICE PLATE INSTALLED.
6. DILUTION AIR SHALL COME FROM A BUILDING SERVED BY THE SGTS.
7. SLOPE UPWARD FROM HEATER SECTION TO FLOW MEASURING ROTOMETERS, SLOPE DOWNWARD FROM CONNECTION TO MAIN STEAM DRAIN LINES TO HEATER SECTION AND SLOPE DOWNWARD FROM FLOW MEASURING ROTAMETERS TO LOW PRESSURE MANIFOLD (MIN. SLOPE 0.5 IN./FT.)
8. SLOPE UPWARD FROM DRAIN LINE TO BLOWER INLET HEADER. SLOPE DOWNWARD FROM CONNECTION TO MAIN STEAM LINES TO DRAIN LINE. (MIN. SLOPE 1/8 IN./FT.)
9. FOR MSIV LCS LOGIC SEE G.E. DWG. 86SE343
10. BLIND FLANGES ON DILUTION AIR INLETS AND BLOWER DISCHARGES ARE FOR START UP TESTING AND MUST BE REMOVED BEFORE OPERATION.

DILUTION AIR INLET SEE NOTE 6

LOW PRESSURE MANIFOLD

8" CAP

1/2" VENT WITH THREADED CAP (SEAL WELD AFTER HYDROSTATIC TESTING)

1/2" SOCKOLET

1E32B001E

1E32B001J

1E32B001N

1E32B001A

1E32C001

1E32C002B

1E32C002F

MAIN STEAM LINE "A" M05-1002 SHT. 2 C-4

MAIN STEAM LINE "B" M05-1002 SHT. 2 E-4

MAIN STEAM LINE "C" M05-1002 SHT 2 B-4

MAIN STEAM LINE "D" M05-1002 SHT. 2 D-4

"A" M05-1002 SHT. 2 C-5

"B" M05-1002 SHT. 2 F-5

"C" M05-1002 SHT. 2 A-5

"D" M05-1002 SHT. 2 D-5

M05-1105 SH. 2, C-4 SEE NOTE 4

M05-1047 SH. 6 C-7

M05-1047 SH. 6 B-4

NUCLEAR SAFETY RELATED ITEMS ARE SHOWN ON THIS DRAWING (FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9070 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
MSIV LEAKAGE CONTROL SYSTEM
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SHEET 1 OF —
M05-1071
FILE ID N8C01
DATE 11-03-79
LEVEL 1 INIT. JVS

1B13D003
REACTOR PRESSURE VESSEL
K-2801

1B13D003

NOTES:
1. ALL DIVISION 1 "LY" & "PY" LOCATED ON PANEL 1H13-P661 UNLESS OTHERWISE NOTED.
2. ALL DIVISION 3 "LY" & "PY" LOCATED ON PANEL 1H13-P663 UNLESS OTHERWISE NOTED.
3. N11 IS THE BELOW CORE PLATE PRESSURE TAP
~~N18~~ N18 IS THE ABOVE CORE PLATE PRESSURE TAP

NUCLEAR SAFETY RELATED ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTES (CONT'D)
4. LOCK OPEN TO PREVENT PRESSURIZATION BY THE KEEP-FILL SYSTEM (MOD. NB-031, NRC I.N. 93-89)

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FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-NUCLEAR BOILER
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