M05-1036 SHEET 2 OF —

1DØ1TC DIESEL GENERATOR FUEL OIL STORAGE TANK K-2841

1DG1TC DIESEL GENERATOR FUEL OIL DAY TANK K-2841

1DØ1PC 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 YT 2C YAL/11H

IDG01TC

4"x2" SW. NIPPLES

C306CP D105CP

3" TEE

1DØ10EC 2

1DØ11AC 2

1DØ07C

3"x2" SW. NIPPLES

L.C.

L.O.

1DØ12AC 2

1DØ08C

1TF99AC 2

1DØ06C

M05-1054 SHT.40 F-2

DG. BLDG. FLOOR DRN. SYS

1DØ02MC

1DØ13BC ¾

1"x¾" RED.

K-2882 K-2801

1DØ10BD 2

1DØ01MF

1DØ10DC 1

2"x1" RED.

DIESEL GENERATOR ENGINE

1DØ01MC

1DØ10CC 1

2"x1" RED.

1E22S001

1DØ124A 3

FILL LINE

1DØ125A 3

1DØ126A 3

1DØ09MA

1DØ011A

1DØ04AA 3

D305CP C306CP

M05-1036 SHT.1 C-4

1DØ011B

1DØ09MB

1DØ04AB 3

M05-1036 SHT.1 C-8

D305CP C306CP

1DØ011C

1DØ09MC

D305CP C306CP

VALVE PIT

1TF108A 3

M05-1054 SHT.43 F-2

OUTDOOR

DIESEL GEN. BLDG.

K-2882

K-2841

1DØ06MC

1DØ03BC 1½

1DØ17AC 1½

SET @ 55 PSIG

1DØ111A 1

1½ x 1" RED.

1DØ005C

1DØ015C

1DØ18AC 1

L.C.

1DØ014C

1DØ112A ¾

1½ x ¾" RED.

FCR-28727-"N" SLOPE

1DØ127AC ¾

2"x¾" RED.

1DØ020C

1DØ04AC 3

1DØ22AC ¾

1DØ019C

DIESEL GENERATOR BLDG. OUTDOORS

VENT

FA *

1DØ05AC 3

1DØ07MC

1DØ013C

1DØ04BC 3

L.O.

TEMP. 1DØ05MC

3"x2" SW. NIPPLE

1DØ01TC

LT 1C YIAL

1HE DØ09 3

1HE3-P601

PI 1F

1DØ03MC (TEMP.)

1DØ114A 1½

1DØ01BC 1½

1½ x 1" RED.

1DØ001C

1DØ002C

1DØ113A 1

L.O.

4"x2" SW. NIPPLE

DIV III

1DØ02BC 2

L.O.

2"x¾ RED.

2"x½" RED.

1DØ01PC

C306CP

TPI DØ025 X LM

D105CP

1DØ02AC 2

1DØ003C

1DØ20AC ¾

1DØ017C

1DØ21AC ¾

1DØ018C

1DØ21AF ¾

1DØ016C

1TFG8AC 4

L.C.

1DØ19AC 4

D105CP C306CP

M05 1054 SHT.42 F-8

DG. BLDG. FLOOR DRN SYS.

1DØ026C

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

0-9036

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 — L.C. — 1FCD86A — SLOPE 1/8" PER FT (MIN)

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 — 1FC18A 4 — 1FC20AA 2½ — LS 2A AL — 1FC21AA 4 — 1FC22AA 2½ — 1FC24AA 4 — FC003A — 1FC25AA 12 — 1FC083G — 1FC021A — 1FC81AG ¾ — 1FC020A — 1FC022A — 1FC81AJ ¾ — 1FC025A — 1FC083J — 1FC26AA 2½ — 1FC27AA 2½ — 1FC28AA 6 — 1FC29AA 2½ — 1FC7A 2½ — 1FC30AA 2½ — 1FC31AA 6 — 1FC32AA 2½ — 1FC130H — 1FC33AA 2½ — 1FC128B — FT 10C Y/FAH — 1FC129B — LS 2B AL

1FC03AA 2½ — 1FC01AA 4 — 1FC02A 2½

K-2943 — K-2882 — DIFFUSER — 1FC084E — 1FCB2AE ¾ — 1FC110AA ½ — SYPHON BREAKER (TYPICAL)

DRAIN FROM BOTTOM OF POOL — 1FC084G — 1FCB2AG ¾ — 1FC109AA ½

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

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

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 — 1FC108AA 1½ — DIFFUSER

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

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

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

1FC01AB 4 — 1FC03AB 2½ — 1FC110AB ½ — 1FCB2AF ¾ — 1FC084F — 1FC109AB ½ — 1FCB2AH ¾ — 1FC084H — 1FC130D — DRAIN FROM BOTTOM OF POOL — DIFFUSER — 1FC108AB ½

FT 100 Y/FAH — CONT. BLDG. FLOOR DRAIN SUMP (M05-1047 SHT.3 D-5) — 1FC129A — 1FC128A — 1FC130C

1FC04AB 2½ — 1FC05AB 4 — 1FC06AB 2½ — 1FC01BB — 1FC48AB ½ — 1FCB1AF ¾ — 1FC083F — 1FCH5A ¾ — 1FC25AB ½ — 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 — 1FC34A 2½ — 1FC130K — 1FC33AB 2½ — 1FC45AB 10 — 1FC022B

1FC01BB 10 — SLOPE 1/8" PER FT. (MIN.) — 1FC01GB12

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)

1FC23AB 12 — 1FC23CB 10 — 1FC23BB10 — 1FC091B — 1FC44AB 12 — 1FC27BB 4 — SLOPE 1/8" PER FT.(MIN) — L.C. — 1FC086B — 1FC27C 6

CONTAINMENT ISOLATION SIGNAL — 2 — IHS FC090 — 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) — EMBEDDED IN CONCRETE — P IMC-52 — 1FC08A ¾ — 1FC17B 8 — C140CP — B140CP — 1FC156 — 1FC17C 8 — 1FC08D 2 — 1FC08C ¾ — 1FC180 — 1FC17A 8 — 1FC157 — 1FC092 — 1FC08B ½ — 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 — 1FC68AA 2½ — 1FC67AA 2½ — 1FC68AB 2½ — 1FC133 — 2½"X1" RED. — 1FC06 MA — 1FC134 — 1FC137A — 1FC06 MC — 1FC06 MD — 1FC68AC 2½ — 1FC04 MB — 1FC04 MC — 1FC04 MA — FT 10A Y/FAH — 1FC67AB 2½ — 1FC68AD 2½ — 1FC131 — 1FC132 — 2½"X1" REDS. — 1FC06 MB — 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 — LM — AUX. BLDG. H.P. VENT — TURBINE BLDG. — MO 1FC027 — 1FC107 — 1FCE1A ¾ — 1FC57D 10 — D140 D100 CP — CONDENSER (M05-1011 SHT1 B-2) — 1FCE57B 10 — 1FC105 — CYCLED CONDENSATE FILL (M05-1012 SHT2 E-5) — (M05-1037 SHT2 C-2 TO SURGE TANKS) — 1FCB7C 10 — 1FC01E 10 — 1FC02M — H.P. VENT — A E-2 — 1FC135 — 1FC69A 6 — 2 — IHS FC093 — IH13-P800 — IH13-P800 — MO 1FC007 — MO 1FC008 — 1FCE2A ¾ — 1FC108 — 1FCB7A 10 — P IMC-53 — C140CP — B140CP — 1FC09A ¾ — B140CP — C140CP — 1FC135 — 1FC093 — 1FCC9B ½ — 1FC09D 2 — 1FC09C ¾ — 1FC181 — L.P DRAIN — CONTAINMENT BLDG — FUEL BLDG — 1FC01C 10 — 1FC01H 12 — EMBEDDED IN CONCRETE

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 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

REVISION 7
DECEMBER 1996

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

IFCH6AA 4 — M05-1046 SHT.1 B-6 — TO EQUIP. DRAINS

FS 1A AH — IFC127A
FS 1C AH — IFC127C
FS 1E AH — IFC127E
FS 1G AH — IFC127G

2½

FUEL TRANSFER TUBE DRAIN — M05-1080 SHT.1 C-5

IFH078 4
IFC70CA 14
IFC70EA 16
IFC70DA 14
IFC47B 8
IFC79A 4
IFC077
IFC46A 2½
IFC47A 6
IFC48A 2½
IFC65A 2½
IFC49A 2½
IFC14CA 14
IFC50AA 3
IFC51AA 6
IFC52AA 3
IFC53AA 6
IFC54AA 3
IFC55AA 6
IFC56AA 3
IFC57BA 8

8" CAP

SLOPE DN. 1/4" PER FT. (MIN.)

SLOPE 1/4 PER FT(MIN.)

SLOPE 1/4 PER FT.(MIN.)

IFC B1AA ¾
IFC083A
IFC078
IFC084A
IFC B2AA ¾
IFC 106A 1½
SYPHON BREAKER (TYPICAL)

K-2882
K-2943
EL. 742'-6"
DIFFUSER

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

C140CP D106CP

FUEL BLDG. EQUIPMENT DRAIN TANK 1REQIT
SLOPE M05-1046 SHT. 1 D-4
L.C.
IFCH4B 4
IFC03M
IFC139
IFCH4A 4

IFC63A 2½
IFCG4A 2½

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

IFCC4A 2½
IFCC3A 2½
IFC71A 2½
IFC73A 2½
IFC75A 2½
IFC77A 2½

IFCC2A 3
IFCC1A 3
IFC70A 6
IFC72A 3
IFC76A 3

IFC08M
IFC107AA½
IFCH9AA10
14"x10" RED.

IFCA9AB 2½
OPEN FLANGE EL 754'-6"
FROM SX SYSTEM — M05-1052 SHT2 D-3
IFC126B
IFCG4AB ¾

DIFFUSER
IFC104A ½
K-2882
K-2943 K-2882

SPENT FUEL STORAGE POOL

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

IFCA9AA 2½
OPEN FLANGE EL 754'-6"
FROM SX SYSTEM — M05-1052 SHT.1 C-3
IFC126A
IFCG4AA ¾
IFC74A 6

14"X10" RED.
IFCH9AB10
IFC107AB½
IFC09M

LS 3A AL
TE 3B RAH

IFCG0A 3
IFC59A 6
IFC58A 3
IFC57AA 6
IFCG1A 3
8"x3" RED.
IFC57AB 6
IFCG2A 3

IFC105A ½
DIFFUSER
IFC074
IFCB2AB ¾
IFC084B
IFC65A 2½
IFC66A 2½
IFC67A 2½
IFC118B ½
IFC119B ½
IFC178
IFC179
IFC118A ½
IFC119A ½
IFC63B 6
IFC68A 2½
IFC61A 2½
1FI FC144
LM
(L) (H)
T.1544CP
C.940CP

IFC50AB 3
IFC51AB 6
IFC52AB 3
IFC53AB 6
IFC54AB 3
IFC55AB 6
IFC56AB 3
IFC14CD 14
IFC70B 12
SLOPE 1/4"PER FT(MIN.)
SLOPE 1/4 PER FT(MIN)
IFC57BB 8
SLOPE 1/4" PER FT(MIN)
IFC70DB 14

IFCB2AD ¾
IFC084D
IFC083B
IFCB1AB ¾
IFC073
IFC78A 4
IFCE7A ¾
IFC113
IFC17A 8
IFCH6AB 4
IFC14E 14
IFC177
IFC14F 14
14"X12" RED
16"x14" RED
16"x14" RED.
H.P. VENT
L.P. DRAIN
TO EQUIP. DRAINS — M05-1046 SHT1 B6

1FE FC144
IFC170
IFC115 ¾
IFC176

FROM FPC&C HEAT EXCHANGERS — M05-1037 SHT 3 D-1 — IFC14B 16
M05-1037 SHT. 1 E-1 — TO CONTAINMENT BLDG. POOLS

IFC70CB 14
IFC14D 16

FS 1B AH — IFC127B
FS 1D AH — IFC127D
FS 1F AH — IFC127F
FS 1H AH — IFC127H

NOTE:
- TYPICAL - DRAIN LINE FROM POOL SCUPPER (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

NORMAL WATER ELV. = 754'-0"
LOW WATER ELV. = 731'-0"
IFCOITA

IFC07AA 14
D105CP C140CP
IHS FC095
IA VENT
S
MAKE-UP FROM CONDENSATE STORAGE — M05 1012 SHT 6 F-5 — ICY36A 3
F.C.
IFC038
IFC18A 3
IFC039
DRAIN FROM CONTAINMENT POOLS — M05-1037 SHT 1 B-1 — IFC012A
IFC01E 10
N.C.
IFCOIFA 10
IFC16BB 3
IFC012B
IFC096
IFCD1A ¾
IFC097
EMBEDDED IN CONCRETE
IFC16BA 3
IFCOIFB 6
L.P. DRAIN

NORMAL WATER ELV. = 754'-0"
LOW WATER ELV. = 731'-0"
IFCOITB.

IFC70EB 16
LT 3D
IFC07AB 14
IFC001
PIPE EMBEDDED IN CONCRETE

IFC168
H.P. VENTS
IFC087
H.P. VENT
IFC106
IFCB4A ¾
IFCD9A ¾
L.C.
IFCF3A ¾
RHR PUMP SUCTION — M05-1075 SHT 1 B-4
RHR RELIEF VALVE DISCHARGE — M05-1037 SHT.3 E-1
IFC002
IFC08A 16
IFC072
IFC81A ¾
IFCB9C 8
IFCB9B 6
TF
C106CP C140CP

ABANDONED (SEE M10-9037-3 DIAGRAM 3C)

M05-1037 SHT 3 E-8 — F.C. PUMP SUCTION
IFC07B 16

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 45 OF 111

REV. 2 SEPT. 1990

M05-1037 SHEET 3 OF —

IFC02PA & IFC02PB
FUEL POOL COOLING &
CLEAN UP PUMPS 1A & 1B
K-2824

IFC01AA & IFC01AB
FUEL POOL COOLING &
CLEAN UP HEAT EXCHANGERS 1A & 1B
K-2815

LOW COOLING WTR. FLOW
M05-1032 SHT. 6

PT 3C-1 YAL

IFC02PA
M05-1046 SHT-1 D-8

IHS FC096

IHS FC106

IHS FC110

IHS FC111

IHS FC102

IHS FC104

IHS FC108

IHS FC098

IHS FC100

IHS FC099

IHS FC097

IHS FC107

IHS FC103

IHS FC105

IHSV FC110

IFSV FC110

IHSV FC111

IFSV FC111

IHI3-P800

MO IFC011A

MO IFC014A

MO IFC016A

MO IFC016B

MO IFC011B

MO IFC024A

MO IFC015A

MO IFC026A

MO IFC024B

MO IFC015B

MO IFC026B

PIS 4A AL

PIS 4B AL

TEW 4C RAH

TEW 4D RAH

IFE FC086 LM

IFE FC097 LM

FTIC 5

CETR 9A CAH

IAE FC143 LM

FROM SURGE TANKS M05-1037 SHT 2 A-2

IFC07B 16

IFC05M

SEE NOTE 1

IFC07CA 14

IFC07CB 14

IFC014A

IFC013A

IFC014B

IFC013B

IFC004A

IFC004B

IFC09BA 8

IFC09CA 12

IFC09BB 12

IFC09CB 8

IFC09AA 14

IFC09AB 14

IFC10A 8

IFC14AA 14

IFC14B 16

IFC12DA 8

HANDWHEEL REMOTELY OPERATED

14"x12" RED.

14"x10" RED.

C140CP

D140CP

CONTAINMENT ISOLATION SIGNAL

CONTAINMENT ISOLATION SIGNAL

CONTAINMENT ISOLATION SIGNAL

CONTAINMENT ISOLATION SIGNAL

H.P. VENT

IFC109

IFCE3A 3/4

IFC10DA 6

IFC10DB 6

IFCE9A 3/4

IFC10B 8

IFC115

IFC017

IFC10C 8

IFC116

IFC140

IP539A 3/8

PROCESS SAMPLE PANEL 01L33JD M05-1045 SHT 4 F5

PT: 1R11

IFCF1A 3/4

L.P. DRAIN

FUEL BLDG.

CONTROL BLDG.

RADWASTE BLDG.

SEISMIC CAT. I

FUEL POOL COOLING & CLEAN-UP DEMIN. TANK M05-1037 SHT 4 C-8

FUEL POOL COOLING & CLEAN-UP DEMIN. TANK M05-1037 SHT 4 C-5

FUEL POOL COOLING & CLEAN-UP DEMIN. TANK M05-1037 SHT 4 E-7

FUEL POOL COOLING & CLEAN-UP DEMIN. TANK M05-1037 SHT 4 E-4

IFC12AA 6

IFC12AB 6

1 1/4 CONN. W/PLUG

1 1/2 CONN. W/PLUG

IFCE4A 3/4

IFCE8A 3/4

IFC12B 8

IFC023

IFC12C 8

IFC110

IFC114

IFC170A

IFC112AA 3/4

IFC111A

IFC124A

IFCE5AA 3/4

IFC029A

IFC82AA 3/4

IFC09DA 14

IFC113AA 3/4

IFC171A

IFC080A

IFC80AA 3/4

IFC030A

IFCE6AA 3/4

IFC112A

SET @ 250 PSIG

IFC091 TO RHR HEAT EXCHANGER M05-1037 SHT. 2 B-3

IFCB9C 8

6"x8" EXP. FLANGE

4"x6" EXP. FLANGE

IFCB9A 6

IFCB8A 12

FROM RHR SYSTEM M05-1075 SHT 1 C-6

IFCB6A 3/4

TF

IFC089

HIGH POINT VENT

IFCB5A 3/4

IFC088

L.C.

IFC090

IFC15A 12

TO FUEL POOLS M05-1037 SHT. 2 B-6

C140CP C106CP

IFC170B

IFC112AB 3/4

IFCE6AB 3/4

IFC112B

IFC111B

IFCE5AB 3/4

IFC029B

IFC82AB 3/4

IFC124B

IFC113AB 3/4

IFC171B

IFC080B

IFC80AB 3/4

IFC030B

NOTE 1 TEMPORARY INLINE STRAINER FOR PREOP AND INITIAL STARTUP TESTING ONLY. REMOVE FOR NORMAL PLANT OPERATIONS.

NUCLEAR SAFETY RELATED ITEMS ARE SHOWN ON THIS DRAWING

NOTE: (FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.) 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

DO NOT USE 1, 0, 0 OR 1 FOR REVISION

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
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1E12B001B
REHEAT EXCHANGER 1B
K-2801

ISX01PB
SHUTDOWN SERVICE
WATER PUMP 1B
K-2828

IDG11AB & IDG12AB
DIESEL GEN. 1B
HEAT EXCHANGERS
K-2861

ISX01FB
SHUTDOWN SERVICE
WATER STRAINER 1B
K-2880

OVC13CB
CONTROL ROOM HVAC
SYSTEM CHILLER
K-2905

IVH07SB
SSW PUMP ROOM 1B
COIL CABINET
K-2902

IVY05S
ECCS RHR HEAT
EXCHANGER ROOM 1B
COIL CABINET
K-2902

IVX13SB
INVERTER ROOM 1B
COIL CABINET
K-2902

IVX14S
DIVISION IV INVERTER
ROOM COIL CABINET
K-2902

OVG05SB
SBGT ROOM 1B
COIL CABINET
K-2902

OVG07SB
HYDROGEN RECOMBINER
ROOM 1B COIL CABINET
K-2902

IVY10A
MSIV LEAKAGE OUTBOARD
ROOM COIL CABINET
K-2902

SX PUMP 1B INTLK.
SSW PUMP 1B ROOM FAN INTLK.
PLANT SERVICE WATER
STANDBY GAS TREAT. CHARCOAL FILTER
SX DIV. 1 & 2 CROSS TIE
INVERTER ROOM 1B COOLING FAN INTERLOCK
DIV 2 LOCS COMPRESSORS
RHR SYSTEM
FROM RHR LOGIC
RHR 1B INITIATION
SBGTS COOLING FAN INTERLOCK
HYD. RECOMB. COOLING FAN INTERLOCK
RECIRC. PUMP SEAL
DIV 1 LOCS COMPRESSORS
DG 1B INTLK.
RETURN LINE
UNDERGROUND DIESEL GEN. BLDG.
MSIV LEAKAGE OUTBOARD ROOM COOLING FAN INTERLOCK
SX DIVISION 2
INVERTER DIV. 4 ROOM COOLING FAN INTERLOCK
LOCA SIGNAL
MOTOR BEARING COOLING
CONTROL ROOM CHILLED WATER SYSTEM MAKE-UP
CONTROL ROOM HVAC STAND-BY CHARCOAL BEDS
BREATHING AIR COMPRESSOR
INSTALLED WITH UNIT 2
3" BLIND FLANGE
MANUAL DRAIN
AUTO BACKWASH
FUEL POOL MAKE-UP
FUEL POOL HEAT EXCHANGER
DRYWELL CHILLERS
CIRCULATING WATER INTAKE AREA
SCREEN HOUSE SLAB
UNDERGROUND PIPING FUEL BLDG.
AUX. BLDG.
CONTROL BLDG.
FUEL BLDG.
UNDERGROUND
DIESEL GEN. BLDG.
3000* T.O.L. W/ PLUG
SEE NOTE 1
SEE NOTE

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 1SX2088, WHICH IS SET FOR 175 PSIG.

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
HIGH-ENERGY P&ID'S
SHUTDOWN SERVICE WATER
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M05-1052
SHEET 3 OF —

REVISION 8
AUGUST 1999

ISX01PC
SHUTDOWN SERVICE
WATER PUMP IC
K-2828

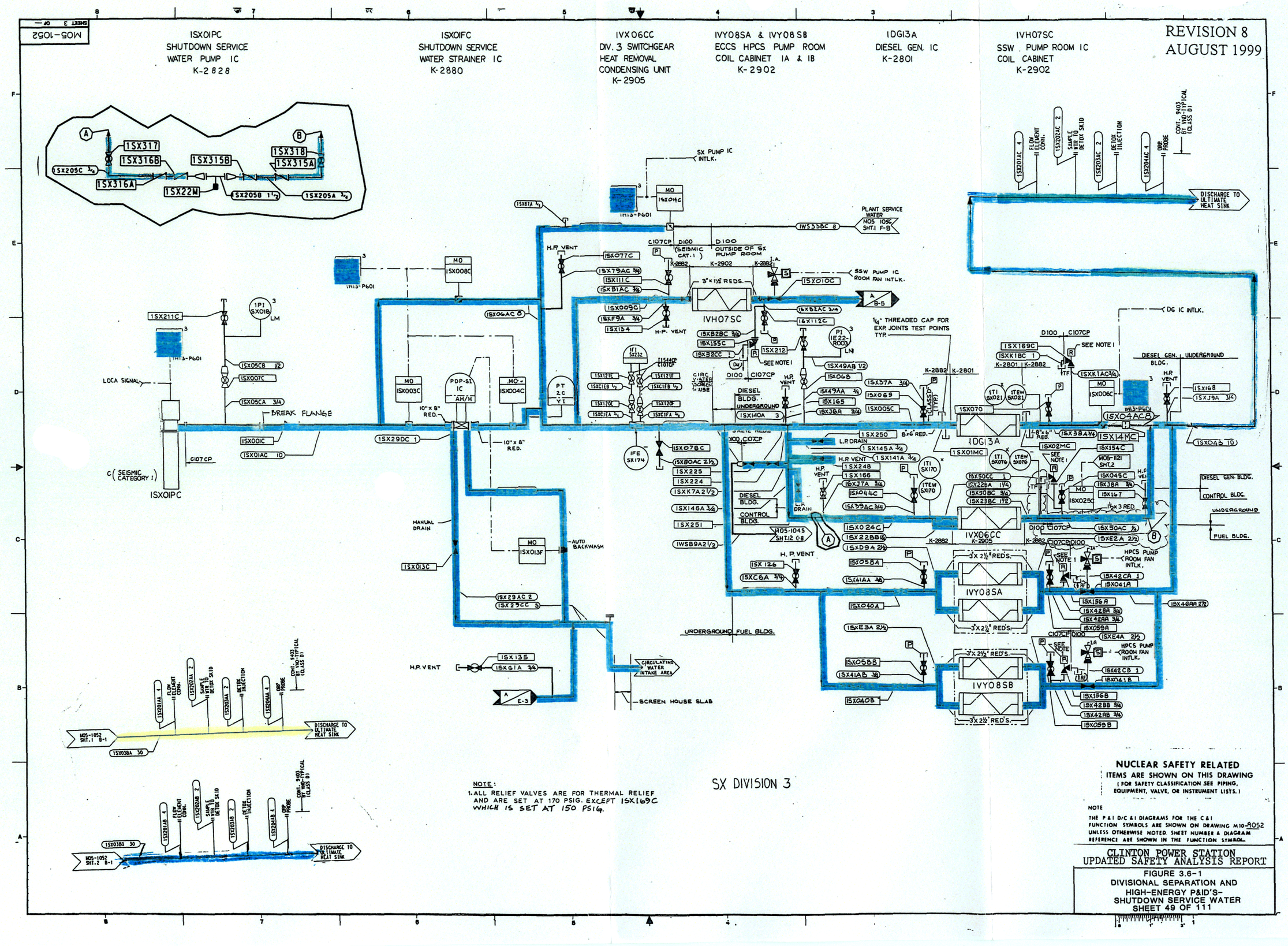
ISX01FC
SHUTDOWN SERVICE
WATER STRAINER IC
K-2880

IVX06CC
DIV. 3 SWITCHGEAR
HEAT REMOVAL
CONDENSING UNIT
K-2905

IVY08SA & IVY08SB
ECCS HPCS PUMP ROOM
COIL CABINET 1A & 1B
K-2902

1DG13A
DIESEL GEN. IC
K-2801

IVH07SC
SSW. PUMP ROOM IC
COIL CABINET
K-2902



NOTE:
1. ALL RELIEF VALVES ARE FOR THERMAL RELIEF AND ARE SET AT 170 PSIG. EXCEPT 1SX169C WHICH IS SET AT 150 PSIG.

SX DIVISION 3

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
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