P&ID Color Coding Key for Piping Energy and Physical Separation Designation			
Physical Separation Division	Color	Energy Category	P&ID Designation
X (Non-Divisional)	Black	High PWA High NPWA * Moderate	
I	Yellow	High PWA High NPWA * Moderate	
II	Blue	High PWA High NPWA * Moderate	
III	Green	High PWA High NPWA * Moderate	

NOTES:

The drawings in Figure 3.6-1 should not be used for detailed information and are not updated unless a change affects divisional separation or high-energy lines. Detail information should be taken from P&IDs in the controlled drawing program.

"High PWA" – those lines which are considered to be high energy (refer to subsection 3.6.1.1.1.b) and therefore subject to pipe rupture analysis.

"High NPWA" – those lines which are considered to be moderate energy and not subject to pipe rupture analysis. Those lines fall under the definition in subsection 3.6.2.1.4. These lines operate within the pressure and temperature conditions specified for high energy for short operational periods, or they are high energy but exempted under the size criteria (less than or equal to 1" nominal pipe size).

"Moderate" – those lines which are considered to be moderate energy (refer to subsection 3.6.1.1.1.c).

* There is no differentiation between moderate energy and low energy.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

Figure 3.6-1
Sheet 1 of 111
DIVISIONAL SEPARATION AND
HIGH ENERGY P&IDs - NOTES

NOTE:

The drawings in Figure 3.6-1 should not be used for detailed information and are not updated unless a change affects divisional separation or high-energy lines. Detail information should be taken from P&IDs in the controlled drawing program.

INDEX OF SYSTEMS

Sheet Number(s)	System
5 to 10	Main Steam
11 to 13	Extraction Steam
14	Reactor Feedwater
15	Condensate
16	Condensate Booster
17 to 21	Feedwater Heater Drains – Turbine Cycle
22 & 23	Feedwater Heater Miscellaneous Vents and Drains
24 to 27	Turbine-Generator Miscellaneous Vents and Drains
28 & 29	Turbine Gland Steam Seal System
30 to 33	Auxiliary Steam
34 to 38	Component Cooling Water
39 to 41	Containment Monitoring System
42 & 43	Diesel Generator Fuel Oil System
44 to 46	Fuel Pool Cooling and Cleanup
47 to 51	Shutdown Service Water
52	Combustible Gas Control System
53	Suppression Pool Makeup
54	MSIV Leakage Control System
55 & 56	Nuclear Boiler
57 to 59	Reactor Recirculation
60	Low Pressure Core Spray
61	High Pressure Core Spray
62 to 65	Residual Heat Removal
66 to 69	Reactor Water Cleanup

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

Figure 3.6-1
Sheet 2 of 111

DIVISIONAL SEPARATION AND
HIGH ENERGY P&IDs
INDEX OF SYSTEMS

NOTE:

The drawings in Figure 3.6-1 should not be used for detailed information and are not updated unless a change affects divisional separation or high-energy lines. Detail information should be taken from P&IDs in the controlled drawing program.

INDEX OF SYSTEMS

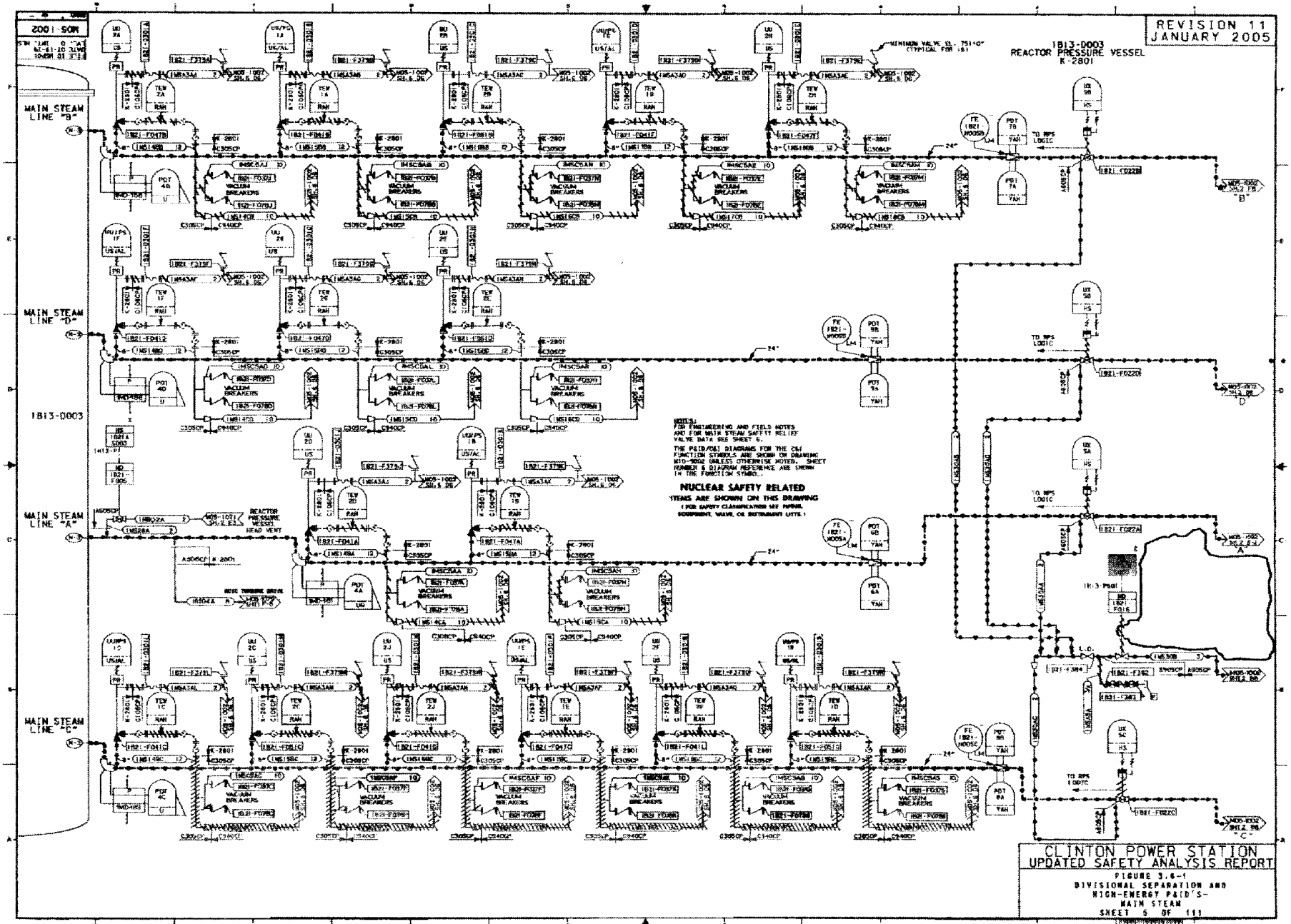
Sheet Number(s)	System
70	Standby Liquid Control
71	Control Rod Drive
72 & 73	Reactor Core Isolation Cooling
74 to 76	Off Gas
77 & 78	Floor Drain Readwaste Process
79 to 81	Chemical Radwaste Reprocessing and Disposal Radwaste Evaporator
82 & 83	Radwaste Sludge Process Concentrate Tank
84 to 90	Control Room HVAC
90A	Laboratory HVAC System
91	Diesel Generator Room Ventilation
92	Fuel Building HVAC
93 & 94	Standby Gas Treatment System
95	Shutdown Service Water System
96 & 97	Drywell Cooling Chilled Water System
98	Drywell Purge
99	Containment Building HVAC
100 to 102	Essential Switchgear Heat Removal
103 & 104	ECCS Equipment Room Cooling
105 & 106	Refrigeration Piping Switchgear Heat Removal
107	Combustible Gas Control System
108 & 109	Radwaste Floor Drain Process
110 & 111	Control Rod Drive System

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

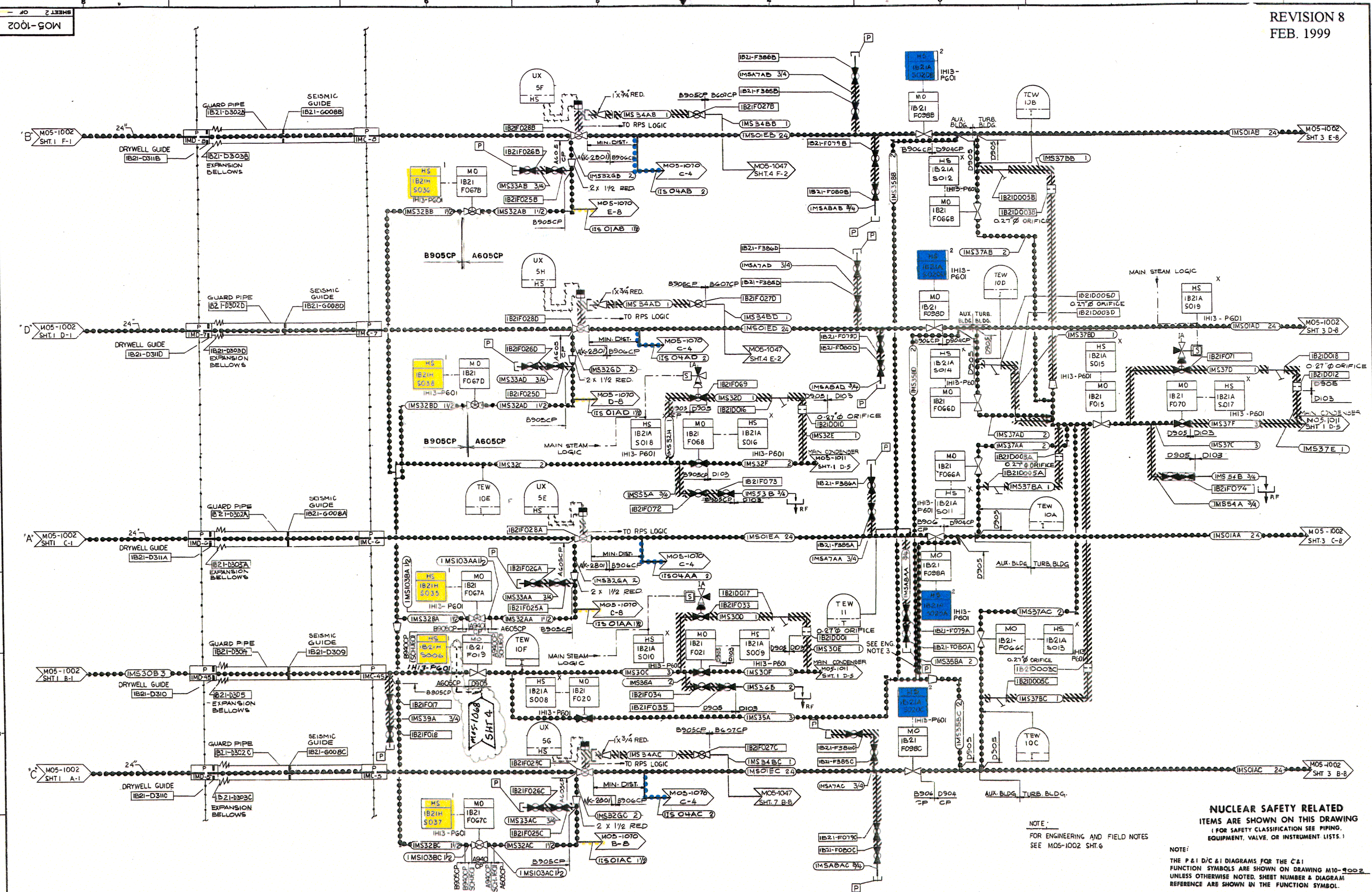
Figure 3.6-1
Sheet 3 of 111

DIVISIONAL SEPARATION AND
HIGH ENERGY P&IDs
INDEX OF SYSTEMS

Figure 3.6-1 Sheet 4 of 111 has been deleted


REVISION 11
JANUARY 2005
1813-0003
REACTOR PRESSURE VESSEL
K-2801
MAIN STEAM LINE "B"
MAIN STEAM LINE "D"
MAIN STEAM LINE "A"
MAIN STEAM LINE "C"
1813-0003
NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
TO RPS LOGIC
REACTOR PRESSURE VESSEL HEAD VENT
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
MAIN STEAM
SHEET 5 OF 111

REVISION 8
FEB. 1999



NOTE:
FOR ENGINEERING AND FIELD NOTES SEE M05-1002 SHT.6

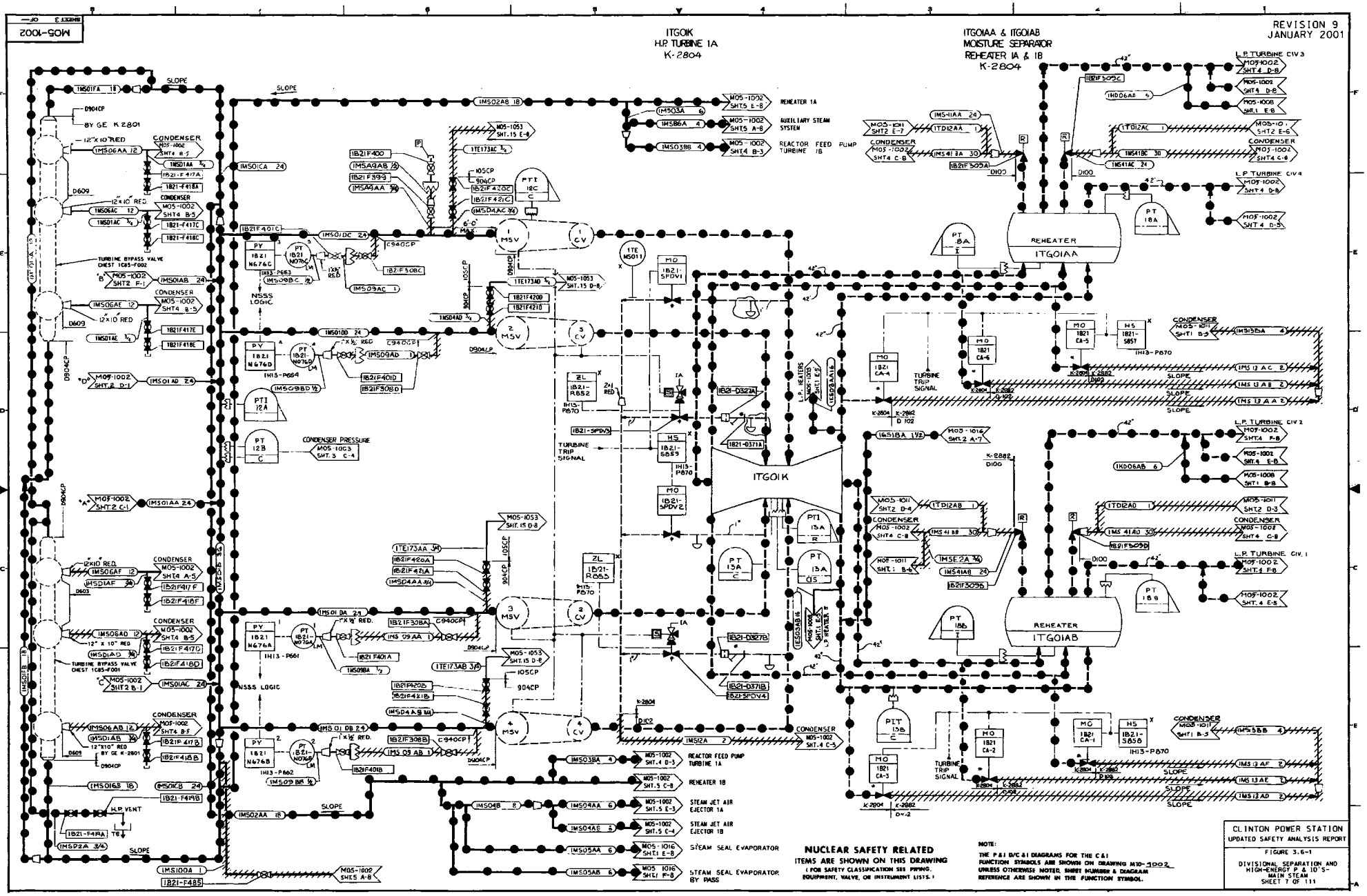
NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE:
THE P&I D/C&I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9002 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

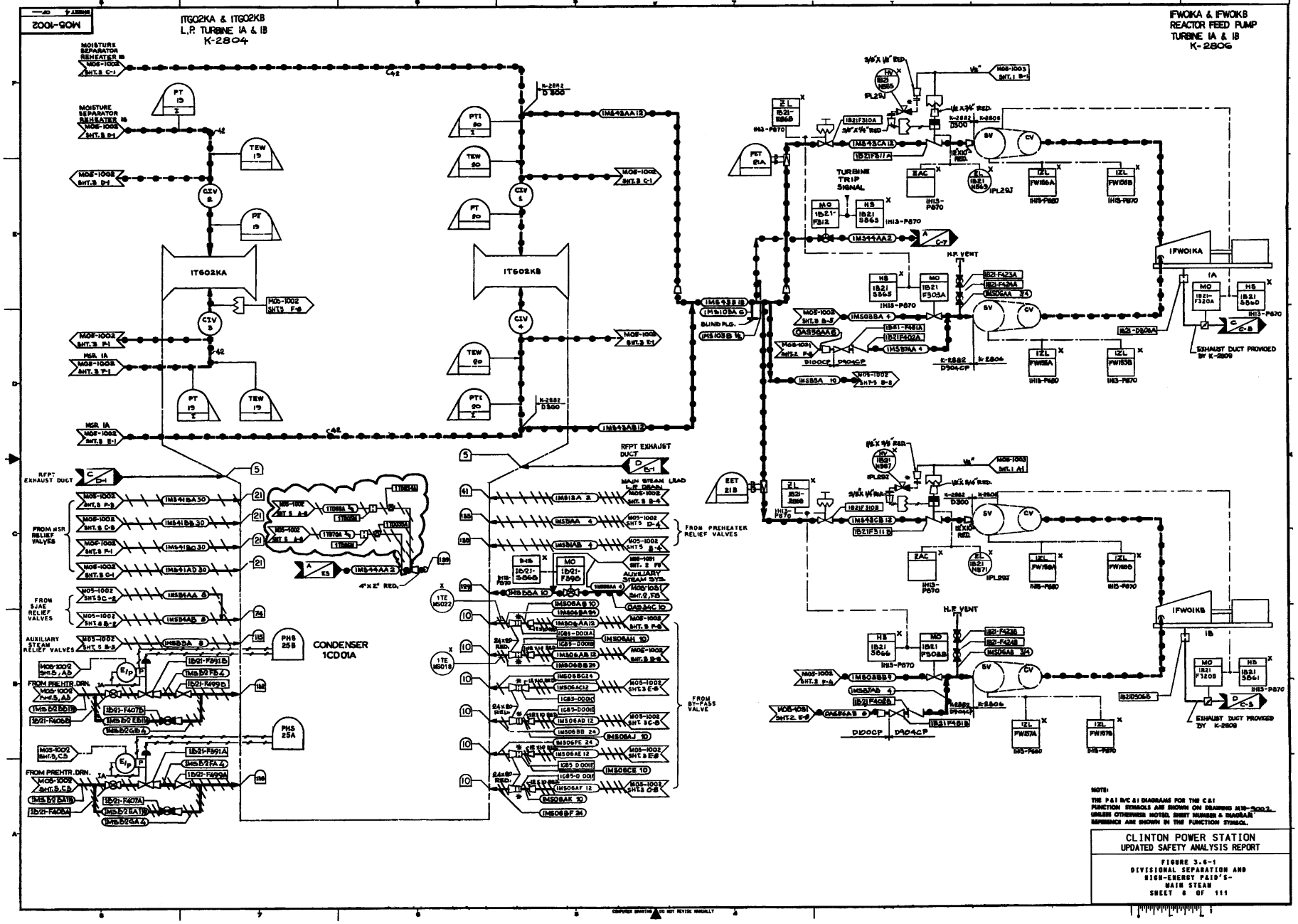
FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-MAIN STEAM
SHEET 6 OF 111

DO NOT USE L. O. C OR X FOR REVISION


M05-1002
REVISION 9
JANUARY 2001
ITG01K
H.P. TURBINE 1A
K-2804
ITG01AA & ITG01AB
MOISTURE SEPARATOR
REHEATER 1A & 1B
K-2804
REACTOR FEED PUMP TURBINE 1A
AUXILIARY STEAM SYSTEM
REACTOR FEED PUMP TURBINE 1B
REHEATER 1A
REHEATER 1B
STEAM JET AIR EJECTOR 1A
STEAM JET AIR EJECTOR 1B
STEAM SEAL EVAPORATOR
STEAM SEAL EVAPORATOR BY PASS
CONDENSER
CONDENSER PRESSURE
TURBINE TRIP SIGNAL
NSSS LOGIC
L.P. TURBINE CIV 1
L.P. TURBINE CIV 2
L.P. TURBINE CIV 3
L.P. TURBINE CIV 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 M10-1002 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 & 10"S- MAIN STEAM
SHEET 7 OF 111

30" x 42" 2D at 1"=1"

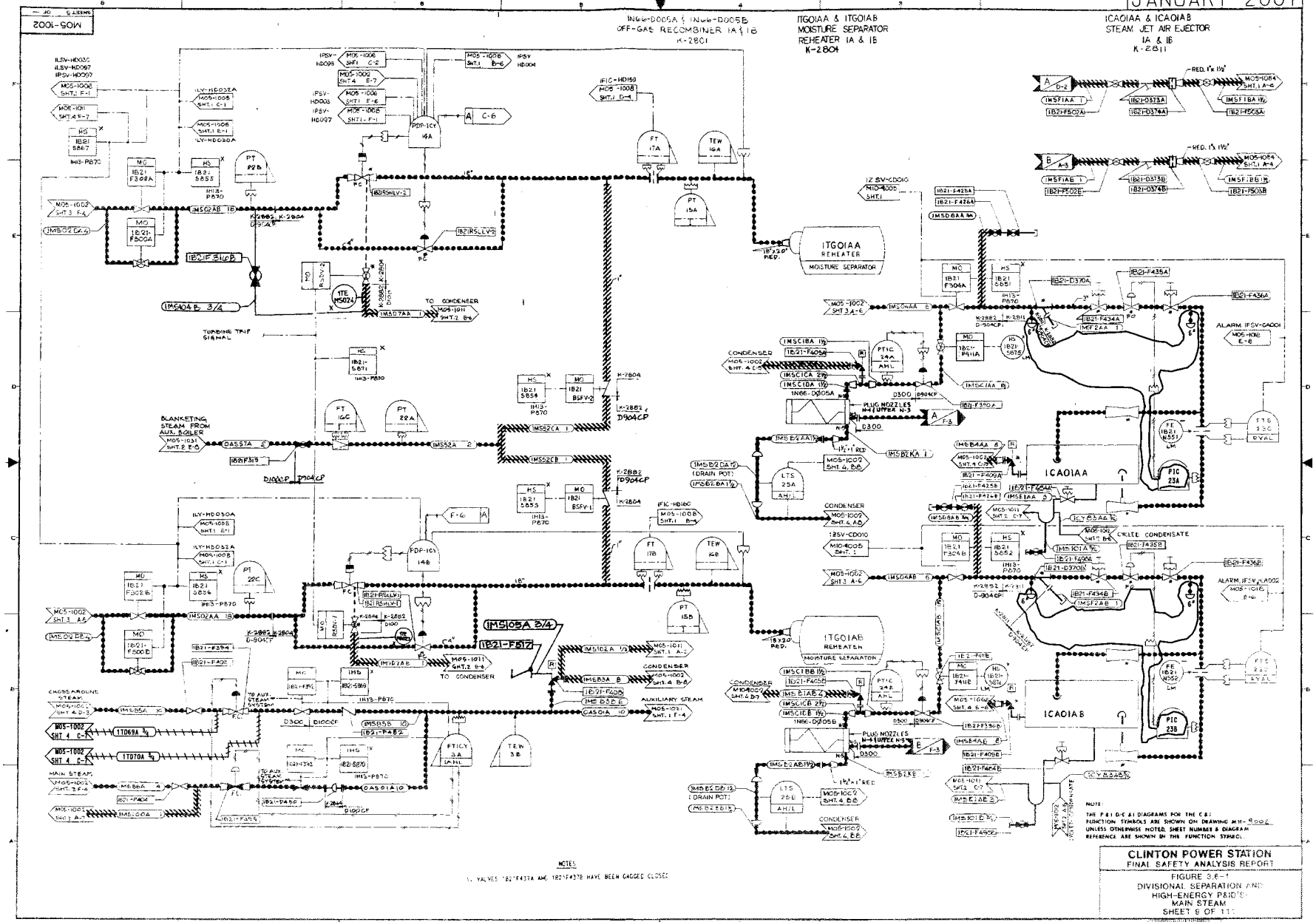
REVISION 11
JANUARY 2005



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY PAID'S-
MAIN STEAM
SHEET 8 OF 111

REVISION 12
JANUARY 2007



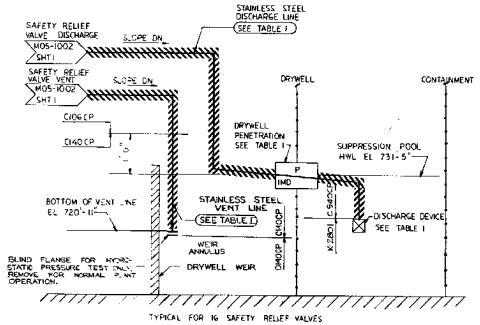
CLINTON POWER STATION
FINAL SAFETY ANALYSIS REPORT
FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S
MAIN STEAM
SHEET 6 OF 11

REVISION 6
07-14-95

M05-1002 SHEET 6 OF 6

TABLE 1 (SEE ENGINEERING NOTE 4)

SAFETY RELIEF VALVE NUMBERS		1B21F041A	1B21F041B	1B21F041C	1B21F041D	1B21F041F	1B21F041G	1B21F041L	1B21F047A	1B21F047B	1B21F047C	1B21F047D	1B21F047F	1B21F051B	1B21F051C	1B21F051D	1B21F051G
ADS OR NON-ADS FUNCTION		NON-ADS	ADS	ADS	ADS	ADS	NON-ADS	NON-ADS	ADS	NON-ADS	ADS	NON-ADS	NON-ADS	NON-ADS	NON-ADS	NON-ADS	ADS
VENT LINE NUMBER		IMSA3BJ	IMSA3BB	IMSA3BL	IMSA3BF	IMSA3BD	IMSA3BN	IMSA3BQ	IMSA3BK	IMSA3BA	IMSA3BP	IMSA3BG	IMSA3BE	IMSA3BC	IMSA3BM	IMSA3BH	IMSA3BR
DISCHARGE LINE NUMBER		IMSI4CA	IMSI5CB	IMSI6CC	IMSI4CD	IMSI7CB	IMSI6CC	IMSI8CC	IMSI5CA	IMSI4CB	IMSI7CC	IMSI5CD	IMSI8CB	IMSI6CB	IMSI5CC	IMSI6CD	IMSI9CC
DISCHARGE DEVICE EQUIPMENT NUMBER SPECIFICATION K-2801		IT23G024A	IT23G024B	IT23G024C	IT23G024D	IT23G024E	IT23G024F	IT23G024G	IT23G024H	IT23G024J	IT23G024K	IT23G024L	IT23G024M	IT23G024N	IT23G024P	IT23G024R	IT23G024S
DRYWELL PENETRATION NUMBER		IMD-19	IMD-27	IMD-25	IMD-31	IMD-29	IMD-23	IMD-21	IMD-18	IMD-26	IMD-22	IMD-32	IMD-30	IMD-28	IMD-24	IMD-33	IMD-20
RELIEF VALVE SET (PSIG)	RELIEF	1123	1123	1123	1123	1123	1123	1123	1113	1113	1113	1113	1113	1113	1113	1103	1113
	SPRING	1165	1165	1165	1165	1165	1165	1165	1180	1180	1180	1180	1180	1190	1190	1190	1190



FIELD NOTES :

1. FOR NUCLEAR BOILER SYSTEM (NB) LOGIC SEE G.E DRAWING 828E151
2. FOR REACTOR PROTECTION SYSTEM (RPS) LOGIC SEE G.E. DRAWING 878E347

ENGINEERING NOTES :

1. ALL MAIN STEAM DRAIN LINES AND SAFETY RELIEF VALVES DISCHARGE AND VENT LINES SHALL SLOPE IN DIRECTION OF FLOW 1/8 INCH PER FT MINIMUM.
2. BY-PASS LINES IMS35BA, IMS35BB, IMS35BC AND IMS35BD SHALL BE CONNECTED TO THE TOPS OF THE MAIN STEAM LINES.
3. VALVES 1B21F027A, 1B21F027B, 1B21F027, AND 1B21F027D SHALL BE LOCATED OUTSIDE OF SHIELDING WALLS AND BE ACCESSIBLE DURING NORMAL PLANT OPERATION.
4. ALL MAIN STEAM SAFETY RELIEF VALVES ARE MANUFACTURED BY DIKKERS AND FURNISHED UNDER SPECIFICATION K-2801 SIZE: 8"X10" WITH RATED DISCHARGE OF 925,000 LBS PER HOUR AT AN INLET PRESSURE OF 103 PERCENT OF 1205 PSIG.

MISC. RELIEF VALVE TABULATION

LOCATION	VALVE NUMBER	SIZE (INCHES)	CAPACITY (LB/HR)	SET PRESS (PSIG)	MODEL NUMBER	FURNISHED BY
STEAM JET AIR EJECTOR 1A	1B21-F409A	4X6	120,000	330	JO-35-A	K-2811
STEAM JET AIR EJECTOR 1B	1B21-F409B	4X6	120,000	330	JO-35-A	K-2811
PREHEATER STEAM INLET 1A	1B21-F405A	2½x4	26,206	350	2½-1910-3607/P1	-2869
PREHEATER STEAM INLET 1B	1B21-F405B	2½x4	26,206	350	2½-1910-3607/P1	K-2869
AUX. STEAM HEADER	1B21-F408	6x8	124,069	125	6-1905-50R/P1	K-2869
MSR 1A	1B21-F309A	20x24	2.65×10^6	272	N/A	K-2804
MSR 1B	1B21-F309B	18x24	2.09×10^6	265	N/A	K-2804
MSR 1A	1B21-F309C	18x24	2.04×10^6	258	N/A	K-2804
MSR 1B	1B21-F309D	20x24	2.66×10^6	275	N/A	K-2804

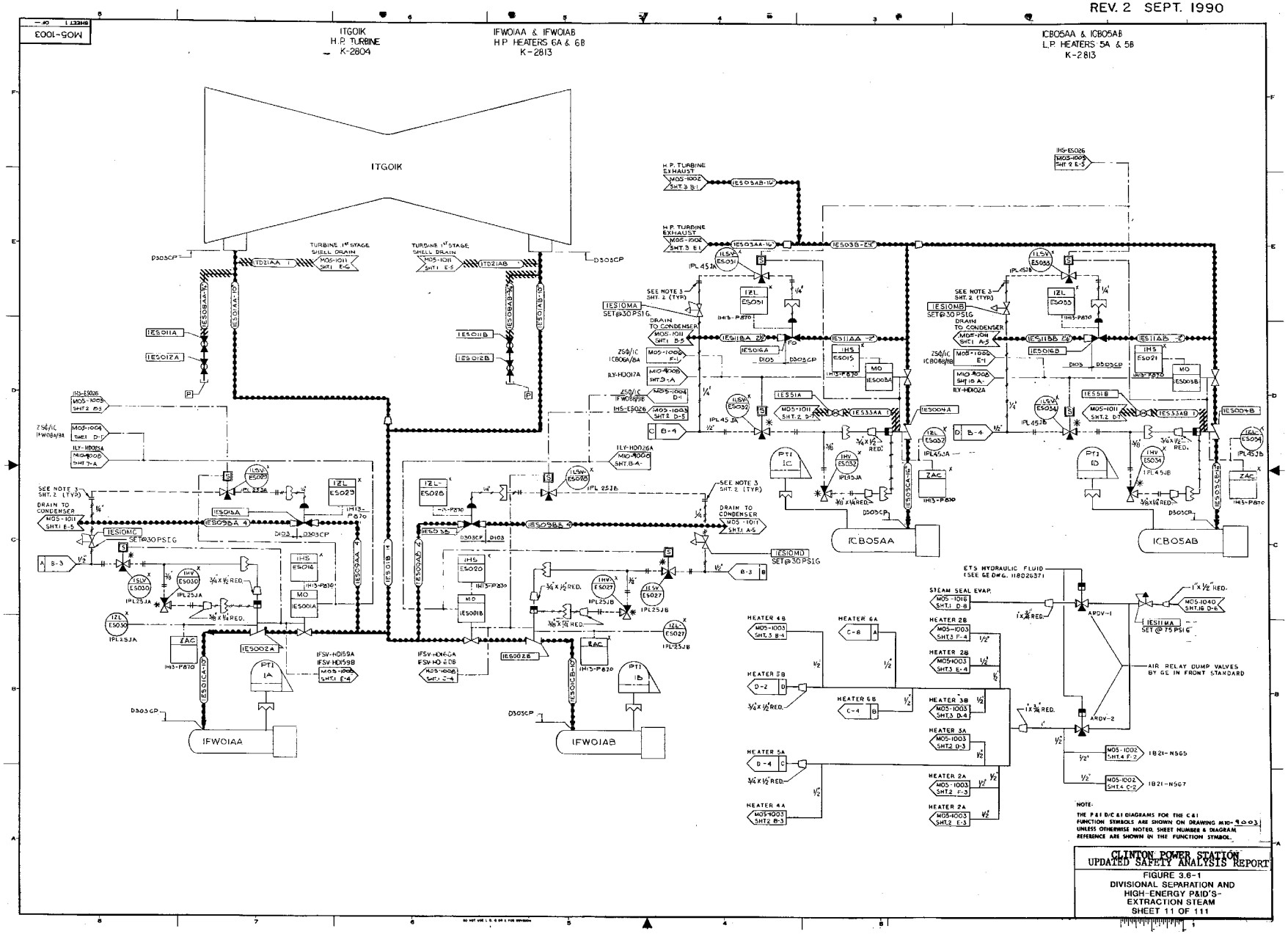
NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING
(FOR SAFETY CLASSIFICATION SEE PIPING, EQUIPMENT, VALVE, OR INSTRUMENT LISTS.)

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1002 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-
MAIN STEAM
SHEET 10 OF 111

REV. 2 SEPT. 1990



REV. 2 SEPT. 1990

M05-1003 SHEET 2 OF 3

ITG02KB
L.P. TURBINE 1B
(EXHAUST HOOD)
K-2804

ICB01AA
L.P. HEATER 1A
K-2813

ICB02AA
L.P. HEATER 2A
K-2813

ICB03AA
L.P. HEATER 3A
K-2813

ICB04AA
L.P. HEATER 4A
K-2813

ITG02KB

ICB01AA

ICB02AA

ICB03AA

ICB04AA

SEE NOTE 1 (TYPICAL)

SEE NOTE 2

SEE NOTE 3 (TYP.)

FURNISHED BY G.E. INSTALLED BY BA (TYPICAL)

CONDENSATE BOOSTER PUMP DISCHARGE

TURBINE AIR RELAY DUMP VLV

DRAIN TO CONDENSER

DRAIN TO CONDENSER

TURBINE AIR RELAY DUMP VALVE

DRAIN TO CONDENSER

TURBINE AIR RELAY DUMP VLV.

DRAIN TO CONDENSER

DRAIN TO CONDENSER

TURBINE AIR RELAY DUMP VALVE

DRAIN TO CONDENSER

DRAIN TO CONDENSER

NOTE 1: ALL TEST CONNECTIONS & VALVES PENETRATE CONDENSER SHELL AS SHOWN FOR LIST OF CONDENSER CONNECTIONS DENOTED BY ⬠ SEE WESTINGHOUSE DWG. 737J012.

2. EXHAUST HOOD WATER SPRAY NOZZLES FOUR NOZZLES AT EACH END OF EACH HOOD.

3. FOR INSTRUMENT AIR LINES SYMBOL —‖— DENOTES CONNECTION TO PANEL AND END OF FIELD ROUTED AIR LINES. SPECIFICATION BREAK IS K-2882, K-2915

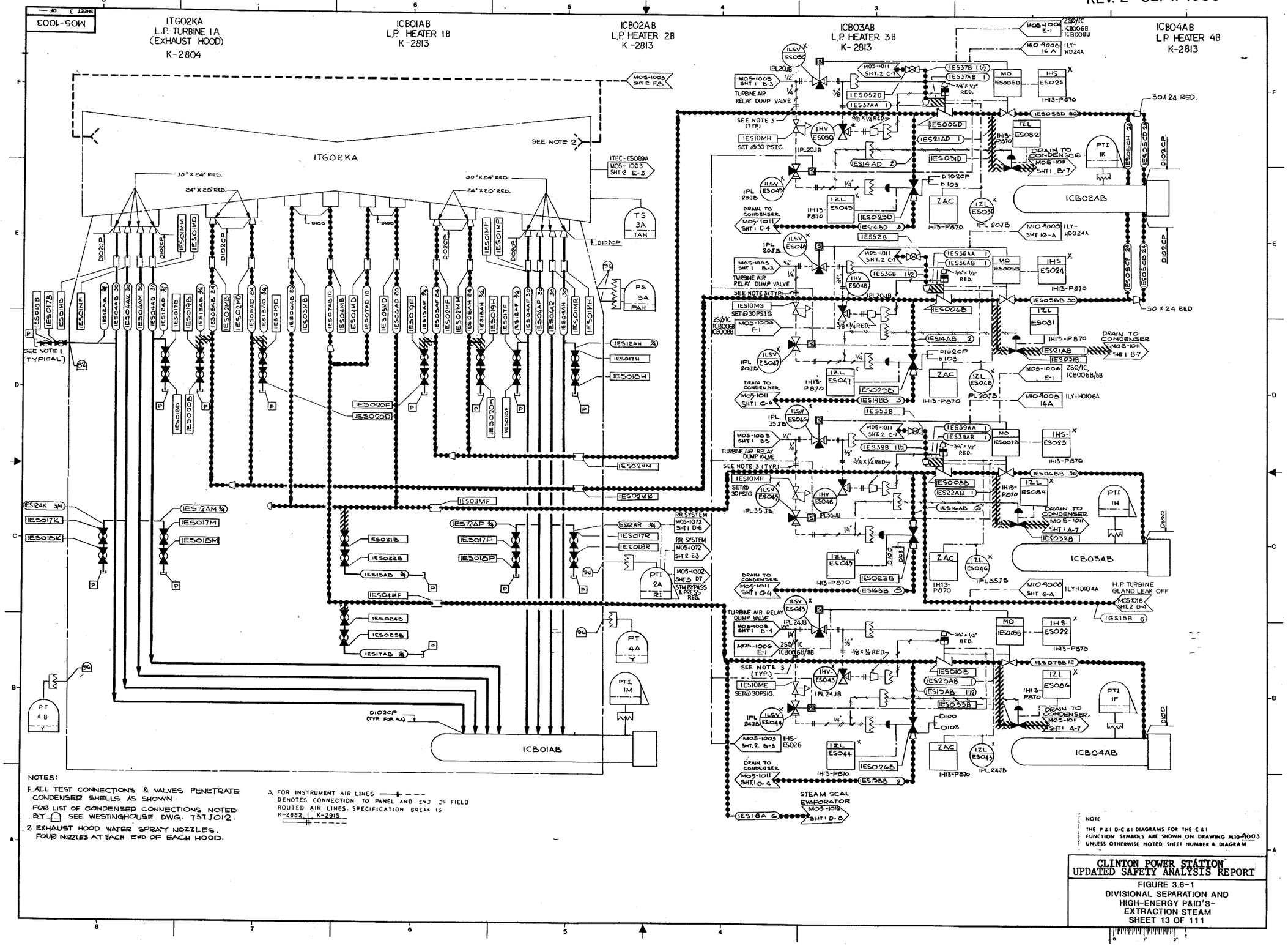
NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9003 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

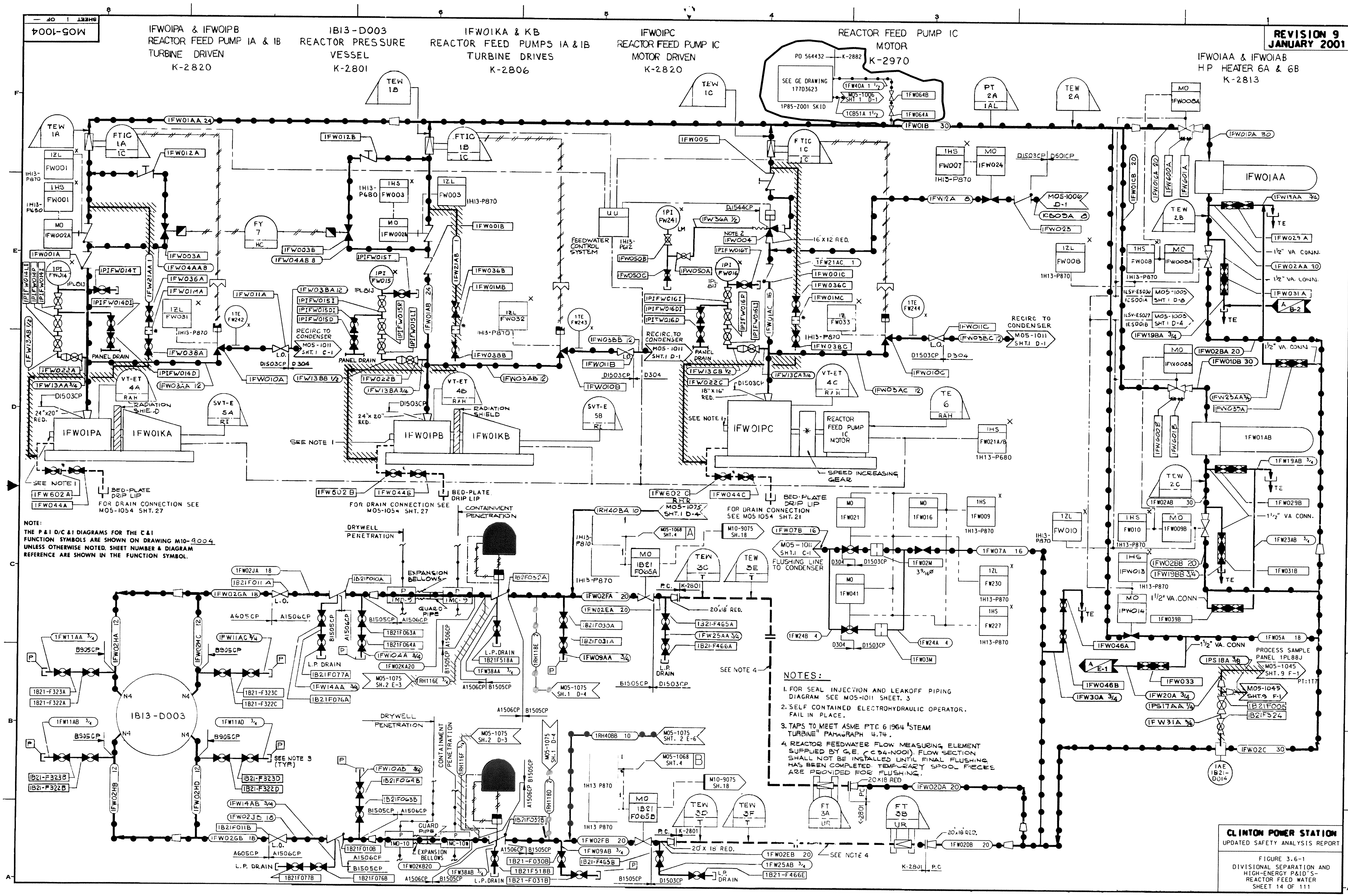
DO NOT USE I, O, Q OR X FOR REVISION

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
EXTRACTION STEAM
SHEET 12 OF 111

REV. 2 SEPT. 1990





NOTE:

THE P&I D/C &I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9004 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

NOTES:

1. FOR SEAL INJECTION AND LEAKOFF PIPING DIAGRAM SEE M05-1011 SHEET. 3
2. SELF CONTAINED ELECTROHYDRAULIC OPERATOR. FAIL IN PLACE.
3. TAPS TO MEET ASME PTC 6 1964 "STEAM TURBINE" PARAGRAPH 4.74.
4. REACTOR FEEDWATER FLOW MEASURING ELEMENT SUPPLIED BY G.E. (C34-N001). FLOW SECTION SHALL NOT BE INSTALLED UNTIL FINAL FLUSHING HAS BEEN COMPLETED. TEMPORARY SPOOL PIECES ARE PROVIDED FOR FLUSHING.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-REACTOR FEED WATER
SHEET 14 OF 111

M05-1005 SHEET 2 OF 2

ICD01A CONDENSER K-2811

ICD01PA , ICD01PB ICD01PC & ICD01PD CONDENSATE PUMPS K-2818

PROCESS SAMPLE PANEL 1PL22J M05-1045 SHT.5 F-6 PT:1T2A

PROCESS SAMPLE PANEL 1PL22J M05-1045 SHT.5 F-4 PT:1T2C

PROCESS SAMPLE PANEL 1PL22J M05-1045 SHT.5 F-5 PT:1T2B

PROCESS SAMPLE PANEL 1PL22J M05-1045 SHT.5 F-3 PT:1T2D

1½ x ⅜ RED.(TYP.)

SLOPE

1PS03AA ⅜ 1CD098A 1CD71AA 1½

1PS03CA ⅜ 1CD098C 1CD71AC 1½

1PS03BA ⅜ 1CD098B 1CD71AB 1½

1PS03DA ⅜ 1CD098D 1CD71AD 1½

TOP CONN. 24A

FT 6A YR

1ZL CD077 IH13-P870

ZAO IH13-P870

LY 8A C

CONDENSER OVERFLOW M05-1006 D-8

1CB18A 10 1CD021 1CD32D 10 1CD019 1CD020 FC DG01CP D100

M05-1054 SHT.2 E-3 L.P. DRAIN 1CB052 1CB45A ¾

1ZL CD078 IH13-P870

1CD024 1CD32C 4 1CD32B 4 1CD023 1CD022 1CB18B 4 FO DG01CP D100

FT 6B YR

MAKE UP (OVERFLOW) M05-1012 SHT.1 C-7

ICD01A

1ZL CD085 IH13-P870

ZAO IH13-P870

LY 8B C

1CD33A 10 1CD044 1CD089 L.O. FC L.O. 1CD046 1CD045

M05-1054 SHT 3 E-6

1ZL CD086 IH13-P870

1CD062A ¾ 1CD34A 4 1CD047 1CD048 L.O. FO L.O. 1CD049

D105CP D100 CONDENSER FILL M05-1012 SHT.2 E-4 1CD055 1CD33A 6 1CY53A 6 D100

CONDENSATE PUMP RECIRCULATION

M05-1005 SHT.1 A-7 1CD23AA 10 D100CP

M05-1005 SHT.1 A-5 1CD23AB 10 D100CP

M05-1005 SHT.1 A-4 1CD23AC 10 D100CP

M05-1005 SHT.1 A-3 1CD23AD 10 D100CP

A B-8 B B-7 C B-6 D B-4

E B-8 F B-7 G B-6

D100 ¾" 1CD35A 4 ¾"

LT 2E YAH LT 2E YIAL

1CD70AA 1 1CD097A M05-1005 SHT.1 C-8 1CD69AA ½ 1CD096A A C-5 1CD094A 1CD66A 3 1CD04MA 1CD67AA ½ 1CD095A 1CD68AA ½ TE ICD01MA ICD01PA

1CD70AB 1 1CD097B M05-1005 SHT.1 C-6 1CD69AB ½ 1CD096B B C-5 1CD094B 1CD66AB 3 1CD04MB 1CD67AB ½ 1CD095B 1CD68AB ½ TE ICD01MB ICD01PB

1CD70AC 1 1CD097C M05-1005 SHT.1 C-5 1CD69AC ½ 1CD096C C C-5 1CD094C 1CD66AC 3 1CD04MC 1CD67AC ½ 1CD095C 1CD68AC ½ TE ICD01MC ICD01PC

1CD70AD 1 1CD097D M05-1005 SHT.1 C-4 1CD69AD ½ 1CD096D D C-5 1CD094D 1CD66AD 3 1CD04MD 1CD67AD ½ 1CD095D 1CD68AD ½ TE ICD01MD ICD01PD

SUAE. MIN. FLOW M05-1005 SHT.1 C-1 1CD28B 16

1CD36AA 10 M05-1006 A-7

1CD36AB 10 M05-1006 A-3

1CD36AC 10 M05 1006 A-5

1CD36AD 10 M05-1006 A-2

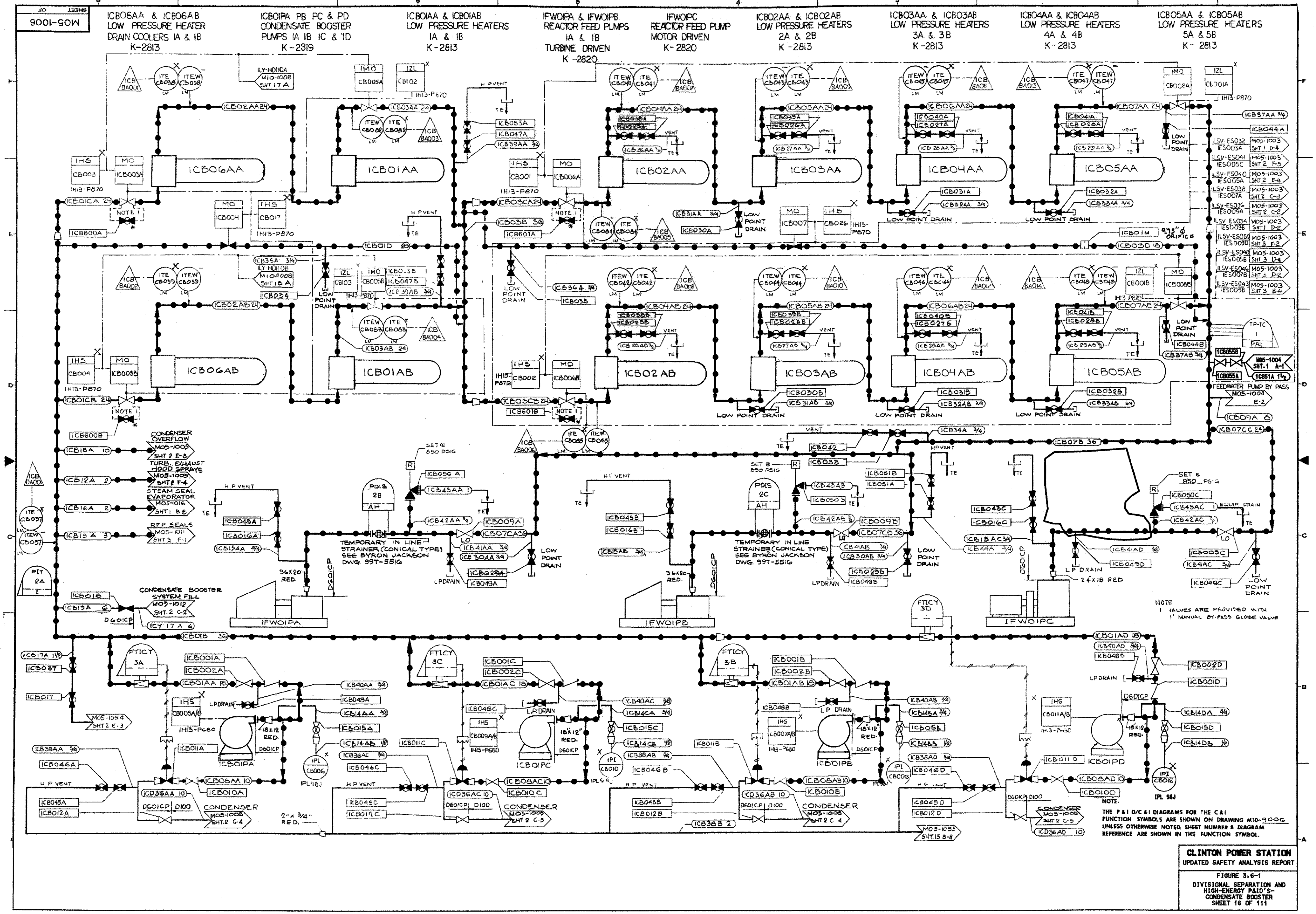
CONDENSATE BOOSTER PUMP RECIRCULATION

NOTE :
— INDICATES CONDENSER CONNECTION. SEE WESTINGHOUSE DWG 737J012

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1005 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-CONDENSATE
SHEET 15 OF 111



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S—CONDENSATE BOOSTER
SHEET 16 OF 111

M05-1008 SHEET 1 OF 5

ITG01AA & TG01AB
MOISTURE SEPARATOR
REHEATERS 1A & 1B
K-2804

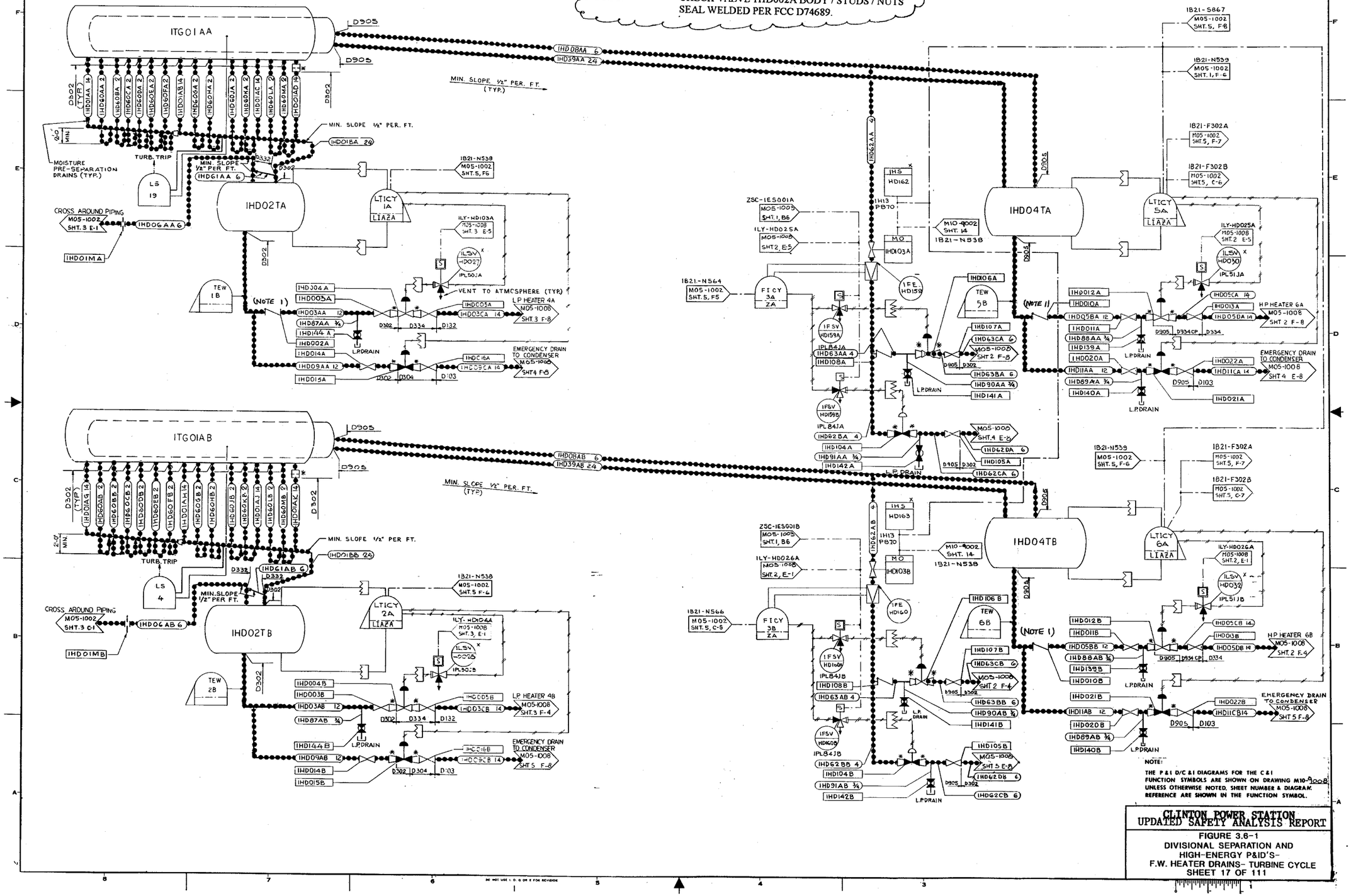
1HD02TA & 1HD02TB
MOISTURE SEPARATOR
DRAIN TANK 1A & 1B
K-2839

NOTE 1 : CHECK VALVES 1HD002A, 1HD010A & 1HD010B INTERNALS HAVE BEEN REMOVED.

NOTE 2: CHECK VALVE 1HD002A BODY / STUDS / NUTS SEAL WELDED PER FCC D74689.

1HD04TA & 1HD04TB
REHEATER DRAIN TANKS 1A & 1B
K-2839

REVISION 8
FEB. 1999



NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9008 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

DO NOT USE I. D. OR X FOR REVISION

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
F.W. HEATER DRAINS- TURBINE CYCLE
SHEET 17 OF 111

MO5-1008 SHEET 2 OF 5

IFW01AA & IFW01AB
HIGH PRESSURE HEATERS
6A & 6B
K-2813

ICB05AA & ICB05AB
LOW PRESSURE HEATERS
5A & 5B
K-2813

REHEATER SCAVENGING STEAM
MO5-1008 SHT 1 D-3
1HD63CA 6

REHEATER DRAIN TANK 1A
MO5-1008 SHT 1 D-1
1HD05DA 14

ITW HD121
ITW HD122
D334
D302
6X10 RED.
1HD19AA 4
IFW01AA
TEW 7B
LTICY 7A
L1A2A
ILSV-HD030
MO5-1008 SHT. 1E-1
IFSV-HD159A
IFSV-HD159B
MO5-1008 SHT. 1E-4
14x12 REDUCING ELBOW
L.P. DRAIN
1HD109A
1HD74AA 3/4
1HD20AA 3/4
1HD041A
FILL / DRAIN
IAE HD164
H.P. VENT
EMERGENCY DRAIN TO CONDENSER
MO5-1008 SHT 4 D-8
1HD21CA 14
1HD120A
1HD21AA 12
1HD133A
M05-1045 SHT.10 F-7
PROCESS SAMPLE PANEL 1PL88JA PT: 1T8A
1PS23AA3/8
1HD044A
1HD043A
1HD042A
1HD64AA 3/4
1HD110A
1HD12AA 12
1HD76AA 3/4
1HD121A
L.P. DRAIN
H.P. VENT
TE
D103
D304
D302
D334
1HD023A
1HD024A
1HD025A
ILSV HD025
VENT TO ATMOSPHERE (TYP.)
IPL 25JA
1HD75AA 3/4
1 1/2"x3/4" RED.
M05-1053 SHT.15 B-8
1HD75B 1 1/2
1HD22AA 4
ITW HD130
ICB05AA
TEW 9B
LTICY 9A
L1A2A
D302
L.P. DRAIN
1HD111A
1HD65AA 3/4
1HD23AA 3/4
FILL / DRAIN
1HD045A
EMERGENCY DRAIN TO CONDENSER
MO5-1008 SHT 4 D-8
1HD24CA 18
1HD24AA 16
1HD046A
1HD66AA 3/4
1HD112A
IAE HD166
1HD134A
M05-1045 SHT.10 F-7
PROCESS SAMPLE PANEL 1PL88JA PT: 1T9A
1PS24AA3/8
1HD13AA 16
1HD026A
H.P. VENT
TE
ILY HD103A
MO5-1008 SHT.3 F-6
D302
D334
1HD027A
1HD028A
ILSV HD017
D132
D334
IPL 45JA
1HD13CA 18
L.P. HEATER 4A
MO5-1008 SHT 5 F-8

REHEATER SCAVENGING STEAM
MO5-1008 SHT 1 B-3
1HD63CB 6

REHEATER DRAIN TANK 1B
MO5-1008 SHT 1 B-1
1HD05DB 14

ITW HD125
ITW HD126
D334
D302
6X10 RED
1HD19AB 4
IFW01AB
TEW 8B
LTICY 8A
L1A2A
ILSV-HD032
MO5-1008 SHT.1 C-1
IFSV-HD160A
IFSV-HD160B
MO5-1008 SHT 1 B-4
14"X 12" REDUCING ELBOW
L.P. DRAIN
1HD109B
1HD74AB 3/4
1HD20AB 3/4
1HD041B
FILL / DRAIN
IAE HD165
H.P. VENT
EMERGENCY DRAIN TO CONDENSER
MO5-1008 SHT 5 D-8
1HD21CB 14
1HD120B
1HD21AB 12
1HD133B
M05-1045 SHT. 10-F7
PROCESS SAMPLE PANEL 1PL88JA PT: 1T8B
1PS23BA3/8
1HD044B
1HD043B
1HD042B
1HD93A 3/4
1HD64AB 3/4
1HD110B
1HD12AB 12
1HD76AB 3/4
1HD121B
L.P. DRAIN
H.P. VENT
1HD75AB 3/4
D302
D334
1HD024B
1HD025B
ILSV HD026
IPL 25 JB
1HD12BB 14
1HD22AB 4
ITW HD132
D132
ICB05AB
TEW 10B
LTICY 10A
L1A2A
D302
L.P. DRAIN
1HD111B
1HD65AB 3/4
1HD23AB 3/4
FILL / DRAIN
1HD045B
EMERGENCY DRAIN TO CONDENSER
MO5-1008 SHT 5 D-8
1HD24CB 18
1HD24AB 16
1HD046B
1HD66AB 3/4
1HD112B
IAE HD167
1HD134B
M05-1045 SHT.10 F-6
PROCESS SAMPLE PANEL 1PL88JA PT: 1T9B
1PS24BA3/8
1HD13AB 16
1HD026B
H.P. VENT
TE
ILY HD104A
MO5-1008 SHT.3 F-2
D302
D234
1HD027B
1HD028B
ILSV HD018
D132
D334
IPL 45 JB
1HD13CB 18
L.P. HEATER 4B
MO5-1008 SHT 5 F-4

1HD047A
1HD048A
1HD047B
1HD048B
D103
D304
D302

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-0006 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-
F.W. HEATER DRAINS- TURBINE CYCLE
SHEET 18 OF 111

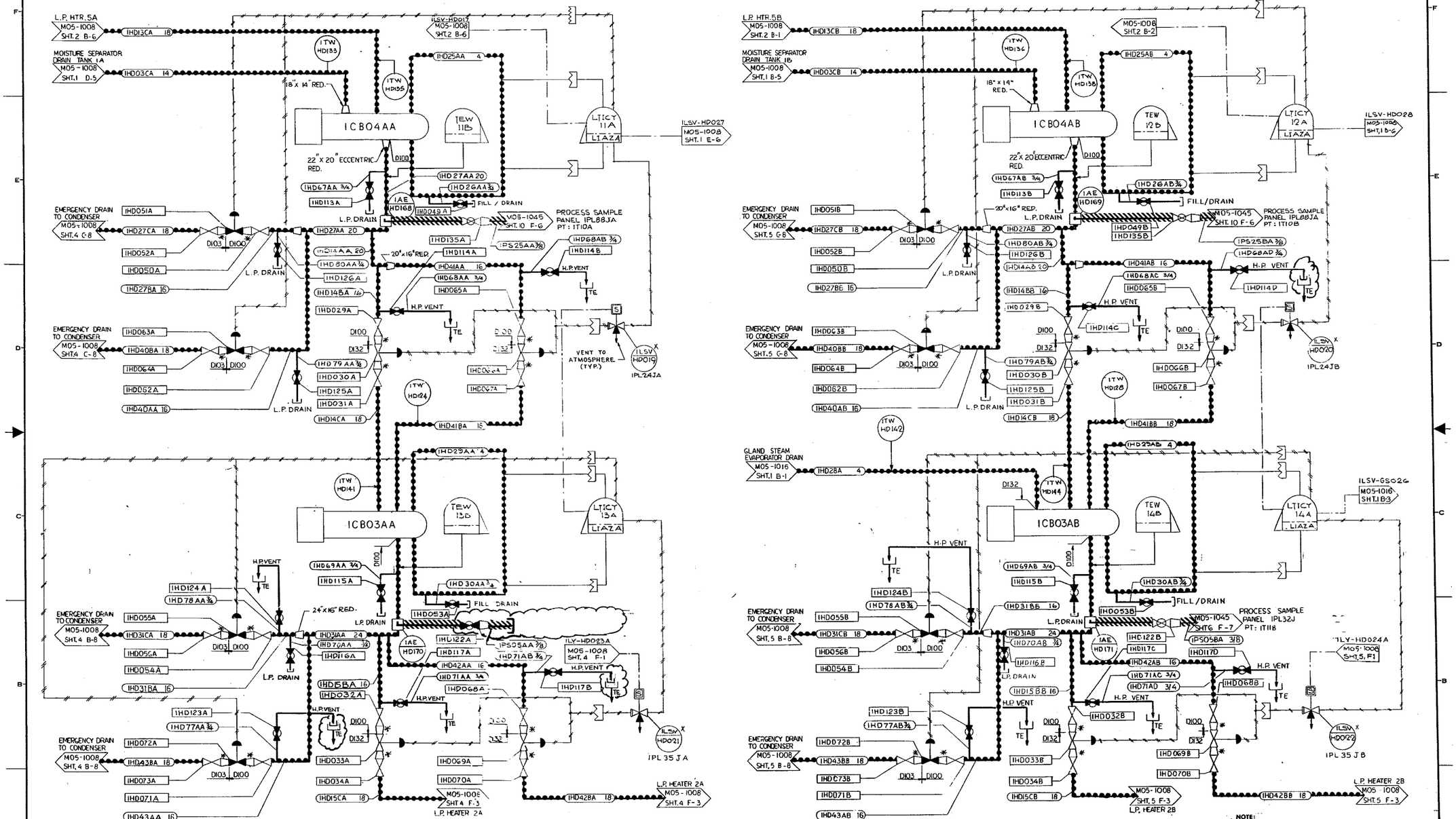
DO NOT USE I, O, Q OR X FOR REVISION

MO5-1008 SHEET 3 OF 5

REVISION 7
DECEMBER 1996

ICB04AA & ICB04AB
LOW PRESSURE HEATERS
4A & 4B
K-2813

ICB03AA & ICB03AB
LOW PRESSURE HEATERS
3A & 3B
K-2813



NOTE:
THE P&I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-4000 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-
F.W. HEATER DRAINS- TURBINE CYCLE
(SHEET 19 OF 111)

REV. 2 SEPT. 1990

M05-1008 SHEET 4 OF 5

ICD01A
MAIN CONDENSER
K-2811

ICB01AA
L.P. HEATER 1A
K-2813

ICB06AA
DRAIN COOLER 1A
K-2813

ICB06TA
FLASH TANK 1A
K-2813

ICB02AA
L.P. HEATER 2A
K-2813

L.P HEATER 3A
M05-1008 SHT.3 A-5
1HD42BA 18
ITW HD153 LM
1HD32AA 4
ILSV-HD021 M05-1008 SHT.3 B5
L.P HEATER 3A
M05-1008 SHT.3 A6
1HD15CA 18
ITW HD145 LM
D132
D100
ICB02AA
LTICY 15A L12ZA
TEW 15B
IAE HD172 LM
PROCESS SAMPLE PANEL M05-1045 SHT.6 F-6
IPL32J PT:1T112A
1HD33AA ¾
1HD057A
FILL/DRAIN
1HD37AA 20
SLOPE MIN. 1/4" PER. FT.
1HD036A
1HD16CA 18
1HD118A
1HD72AA ¾
H.P VENT
1HD16BA 16
1HD055A
1HD037A
1HD118B
1HD72AB ¾
H.P. VENT
1HD16AA 24
VENT TO ATMOSPHERE
IPS06AA¾B
1HD137A
ILSV-HD023
IPL20JA
EMERGENCY DRAIN MOISTURE SEPARATOR DRAIN TANK 1A
M05-1008 SHT.1 D-5
1HD09CA 14
11
REHEATER 1A SCAVENGING STEAM EMERGENCY DUMP
M05-1008 SHT 1 C-3
1HD62DA 6
12
EMERGENCY DRAIN REHEATER DRAIN TANK 1A
M05 1008 SHT1 D1
1HD11CA 14
13
EMERGENCY DRAIN H.P. HEATER 6A
M05-1008 SHT. 2E-8
1HD21CA 14
14
ICB01AA
LTICY 17A L12ZA
IAE HD174 LM
ITW HD149 LM
PROCESS SAMPLE PANEL IPL32J PT:1T13A M05-1045 SHT.6 F-5
IPS07AA¾B
1HD13CA
1HD17AA 14
1HD38BA 24
30"x24" RED
D100
CB06TA
1HD36AA ¾
1HD36AC 16
1HD36AA 16
1HD061A
FILL/DRAIN
24"x16" RED
D107
D132 D100
1HD078A
1HD077A
1HD075A
1HD45BA 16
1HD45AA 16
1HD34AA 16
EMERGENCY DRAIN L.P. HEATER 5A
M05 1008 SHT. 2 C-8
1HD24CA 18
15
ICD01A
ICB06AA
30"x24" RED
IPS08AA¾B
1HD13BA
PROCESS SAMPLE PANEL IPL32J PT:1T14A M05-1045 SHT.6 F-3
IAE HD176 LM
TEW 17B
1HD34AA 24
D103 D100
EMERGENCY DRAIN L.P. HEATER 4A
M05-1008 SHT 3 E-8
1HD27CA 18
16
13
1HD039C
1HD040C
1HD18CC 20
1HD035C
1HD18BC 18
1HD81AA ¾
L.P DRAIN
1HD127A
1HD44BC 20
1HD44AC 18
1HD076C
1HD075C
1HD074C
1HD84AA ¾
1HD128A
1HD18BA 18
D103 D100
D132 D100
L.P DRAIN
EMERGENCY DRAIN L.P. HEATER 4A
M05-1008 SHT 3 D-8
1HD40BA 18
16
19
1HD039A
1HD040A
1HD18CA 20
1HD035A
1HD82AA ¾
L.P DRAIN
1HD129A
1HD44BA 20
1HD074A
1HD44AA 18
1HD076A
1HD075A
1HD85AA ¾
1HD73AA ¾
D132 D100
1HD30A
L.P DRAIN
1HD119A
P
EMERGENCY DRAIN L.P. HEATER 3A
M05-1008 SHT. 3 B-8
1HD31CA 18
17
20
1HD46BA 18
1HD082A
1HD081A
D103 D100
1HD080A
1HD85AA ¾
1HD131A
L.P DRAIN
EMERGENCY DRAIN L.P. HEATER 3A
M05-1008 SHT 3 B-8
1HD438A 18
17
18
1HD34CA 18
1HD060A
D103 D100
1HD058A
1HD059A
1HD86AA ¾
1HD132A
L.P DRAIN

NOTE :
⌒ - DENOTES CONDENSER CONNECTION SEE WESTINGHOUSE DWG 737J012.

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1008 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

DO NOT USE L, O, S OR I FOR REVISIONS

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
F.W. HEATER DRAINS- TURBINE CYCLE
(SHEET 20 OF 111)

M05-1008 SHEET 5 OF 5

REVISION 7
DECEMBER 1996

ICD01A
MAIN CONDENSER
K-2811

ICB01AB
L.P. HEATER 1B
K-2813

ICB06AB
DRAIN COOLER 1B
K-2813

ICB06TB
FLASH TANK 1B
K-2813

ICB02AB
L.P. HEATER 2B
K-2813

EMERGENCY DRAIN MOISTURE SEPARATOR DRAIN TANK 1B M05-1008 SHT 1 A-5 — 1HD09CB 14 — 11
REHEATER 1B SCAVENGING STEAM EMERGENCY DUMP M05-1008 SHT 1 A-3 — 1HD62DB 6 — 12
EMERGENCY DRAIN REHEATER DRAIN TANK 1B M05-1008 SHT 1 B-1 — 1HD11CB 14 — 13
EMERGENCY DRAIN H.P. HEATER 6B M05-1008 SHT 2 E-4 — 1HD21CB 14 — 14
EMERGENCY DRAIN L.P. HEATER 5B M05-1008 SHT 2 C-4 — 1HD24CB 18 — 15
EMERGENCY DRAIN L.P. HEATER 4B M05-1008 SHT 3 E-4 — 1HD27CB 18 — 16
EMERGENCY DRAIN L.P. HEATER 4B M05-1008 SHT 3 D-4 — 1HD40BB 18 — 16
EMERGENCY DRAIN L.P. HEATER 3B M05-1008 SHT 3 E-4 — 1HD31CB 18 — 17
EMERGENCY DRAIN L.P. HEATER 3B M05-1008 SHT 3 B-4 — 1HD43BB 18 — 17

L.P. HEATER 3B M05-1008 SHT 3 A-1 — 1HD42BB 18
L.P. HEATER 3B M05-1008 SHT 3 A-2 — 1HD15CB 18
ITW HD147 LM
ITW HD154 LM
1HD32AB 4
1LSV-HD022 M05-1008 SHT 3, B-2
TEW 16B
LTICY 16A L1A2A
1HD057B
IAE HD173 LM
1HD33AB 20
FILL/DRAIN
M05-1045 SHT 6 F-5 PROCESS SAMPLE PANEL 1PL32J PT: 1T112B
1HD137B
1PS06BA 3/8
1HD16AB 24
1HD72AC 3/4
H.P. VENT
TE
1HD118C
1HD16BB 16
1HD72AD 3/4
1HD118D
1HD45AB 16
VENT TO ATMOSPHERE
1LSV HD024 X
1PL20J8
1HD46AB 16
1HD34AB 16

1HD37AB 20 — SLOPE MIN. 1/4" PER FT.
1HD16CB 18
1HD35AB 4
LTICY 18A L1A2A
1HD17AB 14
IAE HD175 LM
1PS07BA 3/8
PROCESS SAMPLE PANEL 1PL32J PT: 1T113B — M05-1045 SHT 6 F-3
1HD136B
ITW HD151 LM
1HD38BB 24
30"x24" RED
1HD36AB 3/4
24"x18" RED.
1HD38AD 18
1HD38AB 18
1HD061B
FILL/DRAIN
1HD072D
1HD077B
1HD075B
1HD45BB 18

TEW 18B
IAE HD177 LM
1PS08BA 3/8
M05-1045 SHT 6 F-2 PROCES SAMPLE PANEL 1PL32J PT: 1T14B
1HD18AB 24
1HD138B
1HD039D
1HD040D
1HD18CD 20
1HD84AB 3/4
1HD127B
1HD035D
1HD18BD 18
1HD44AD 18
1HD44BD 20
1HD076D
1HD075D
1HD074D
1HD81AB 3/4
1HD128B
1HD18BB 18
L.P. DRAIN
1HD039B
1HD040B
1HD18CB 20
1HD82AB 3/4
1HD038D
1HD129B
1HD44AB 18
1HD44BB 20
1HD076B
1HD075B
1HD83AB 3/4
1HD130B
1HD073AB 3/4
1HD074B
1HD119B
1HD46BB 18
1HD34CB 18

1HD082B
1HD081B
1HD080B
1HD85AB 3/4
1HD131B
L.P. DRAIN
1HD060B
1HD058B
1HD059B
1HD86AB 3/4
1HD132B
L.P. DRAIN

ICD01A

NOTE:
- DENOTES CONDENSER CONNECTION SEE WESTINGHOUSE DWG 737J012

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1008 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-
F.W. HEATER DRAINS- TURBINE CYCLE
(SHEET 21 OF 111)

REV. 2 SEPT. 1990

M05-1009 SHEET 1 OF 2

ICB02AA & ICB02AB
L.P. HEATERS 2A & 2B
K-2813

ICB01AA & ICB01AB
L.P. HEATERS 1A & 1B
K-2813

ICD01A
MAIN CONDENSER
K-2811

ICB04AA & ICB04AB
L.P. HEATERS 4A & 4B
K-2813

ICB02AA

ICB02AB

ICB01AA

ICB01AB

ICB04AA

ICB04AB

ICD01A

18" DIA. FUNNEL

EQUIP. DRAINS M05-1053 SHT. 7 C-1

EQUIP. DRAINS M05-1053 SHT. 7 C-2

EQUIP. DRAINS M05-1053 SHT. 7 B-2

EQUIP. DRAINS M05-1053 SHT. 14 D-3

EQUIP. DRAINS M05-1053 SHT. 14 D-2

EQUIP. DRAINS M05-1053 SHT. 14 B-4

8 X 10 RED.

5"/32 ϕ ORIFICE

3"/32 ϕ ORIFICE

LOW POINT DRAIN TO CONDENSER M05-1011 SHT. 2 F-6

LOW POINT DRAIN TO CONDENSER M05-1011 SHT. 2 F-6

LOW POINT DRAIN TO CONDENSER M05-1011 SHT. 2 F-6

NOTES:

1. ALL RELIEF VALVE DISCHARGE LINES TO BE SLOPED ⅛" PER FT. MIN. TO THE CONDENSER OR LOW POINT DRAIN WHERE INDICATED.
2. ⌒ DENOTES CONDENSER CONNECTIONS. SEE WESTINGHOUSE DRAWING NO. 737J012.

RELIEF VALVE TABULATION

LOCATION	VALVE NO.	SIZE (INCHES)	CAPACITY (LB/HR)	SET PRESS. (PSIG)	CROSBY MODEL NO.	FURN. BY
L.P. HEATER 4A SHELL	1DV022E	6R10	762,930	150	JB-3G	W.E. CO.
L.P. HEATER 4A SHELL	1DV022C	6R10	762,930	150	JB-3G	W.E. CO.
L.P. HEATER 4B SHELL	1DV021B	4P6	304,220	150	JB-26-3	W.E. CO.
L.P. HEATER 4B SHELL	1DV022D	6R10	762,930	150	JB-3G	W.E. CO.
L.P. HEATER 4B SHELL	1DV022E	6R10	762,930	150	JB-3G	W.E. CO.
L.P. HEATER 4B SHELL	1DV022F	6R10	762,930	150	JB-3G	W.E. CO.
L.P. HEATER 4A CHANNEL	1DV024A	3/4 X 1	14,000	850	JR-C	W.E. CO.
L.P. HEATER 4B CHANNEL	1DV024B	3/4 X 1	14,000	850	JR-C	W.E. CO.

RELIEF VALVE TABULATION

LOCATION	VALVE NO.	SIZE (INCHES)	CAPACITY (LB/HR)	SET PRESSURE (PSIG)	CROSBY MODEL NO.	FURNISHED BY
L.P. HEATER 1A CHANNEL	1DV006A	3/4 X 1	14,000	850	JR-C	W.E. CO.
L.P. HEATER 1B CHANNEL	1DV006B	3/4 X 1	14,000	850	JR-C	W.E. CO.
L.P. HEATER 2A SHELL	1DV012A	6Q8	717,330	100	JB-25	W.E. CO.
L.P. HEATER 2B SHELL	1DV012B	6Q8	717,330	100	JB-25	W.E. CO.
L.P. HEATER 2A CHANNEL	1DV014A	3/4 X 1	14,000	850	JR-C	W.E. CO.
L.P. HEATER 2B CHANNEL	1DV014B	3/4 X 1	14,000	850	JR-C	W.E. CO.
L.P. HEATER 4A SHELL	1DV021A	4P6	304,220	150	JB-26-3	W.E. CO.
L.P. HEATER 4A SHELL	1DV022A	6R10	762,930	150	JB-3G	W.E. CO.

THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9009 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM

DO NOT USE I, O, Q OR X FOR REVISION

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
F.W. HEATER MISC. VENTS & DRAINS
(SHEET 22 OF 111)

M05-1009 SHEET 2 OF 2

IFW01AA & IFW01AB
H.P. HEATER 6A & 6B
K-2813

ICB03AA & ICB03AB
L.P. HEATER 3A & 3B
K-2813

IC D01A
MAIN CONDENSER
K-2811

ICB05AA & ICB05AB
L.P. HEATERS 5A & 5B
K-2813

ICB06AA & ICB06AB
L.P. DRAIN COOLER 1A & 1B
K-2813

IFW01AA

IFW01AB

ICD01A

ICB03AA

ICB03AB

ICB05AA

ICB05AB

ICB06AA

ICB06AB

LOCATION	VALVE NO	SIZE (IN)	CAPACITY (LB/HR)	SET PRESSURE (PSIG)	CROSBY MODEL NO	FURN BY
L.P.HTR 3A SHELL	IDV042A	6Q8	717,330	150	JB-25	W.E.Co.
L.P.HTR 3B SHELL	IDV042B	6Q8	717,330	150	JB-25	W.E.Co.
L.P.HTR 3A CHANNEL	IDV044A	3/4x1	14,000	650	JR-C	W.E.Co.
L.P.HTR 3B CHANNEL	IDV044B	3/4x1	14,000	650	JR-C	W.E.Co.
L.P.HTR 5A SHELL	IDV051A	6Q8	790,501	300	JB-36	W.E.Co.
L.P.HTR 5B SHELL	IDV051B	6Q8	790,501	300	JB-36	W.E.Co.
L.P.HTR 5A CHANNEL	IDV053A	1x1	14,000	850	JR-t	W.E.Co.
L.P.HTR 5B CHANNEL	IDV053B	3/4x1	14,000	850	JR-t	W.E.Co.
H.P.HTR 6A SHELL	IDV031A	6Q8	595,410	400	JB-55	W.E.Co.
H.P.HTR 6A SHELL	IDV031B	6Q8	595,410	400	JB-55	W.E.Co.
H.P.HTR 6A SHELL	IDV031C	6Q8	595,410	400	JB-55	W.E.Co.
H.P.HTR 6B SHELL	IDV032A	6Q8	595,410	400	JB-55	W.E.Co.
H.P.HTR 6B SHELL	IDV032B	6Q8	595,410	400	JB-55	W.E.Co.
H.P.HTR 6B SHELL	IDV032C	6Q8	595,410	400	JB-55	W.E.Co.
H.P.HTR 6A CHANNEL	IDV059A	3/4x1	14,000	2200	JMB-t	W.E.Co.
H.P.HTR 6B CHANNEL	IDV059B	3/4x1	14,000	2200	JMB-t	W.E.Co.
DRAIN COOLER 1A CHANNEL	IDV059A	3/4x1	14,000	650	JR-C	W.E.Co.
DRAIN COOLER 1B CHANNEL	IDV059B	3/4x1	14,000	650	JR-C	W.E.Co.

NOTES

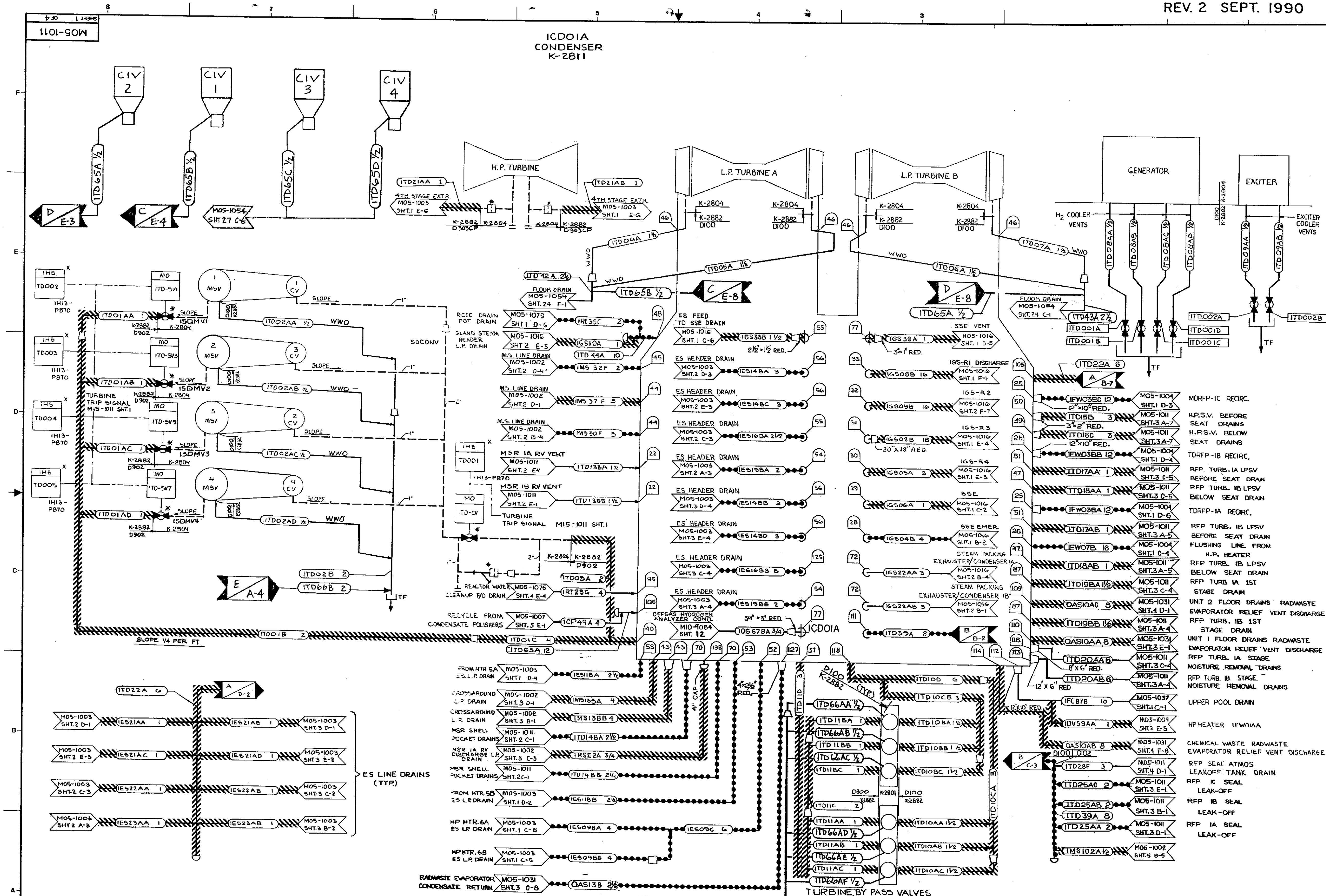
1. ALL RELIEF VALVE DISCHARGE TO BE SLOPED 1/8 PER FT. MIN. TO THE CONDENSER OR LOWPOINT DRAIN WERE INDICATED

○ - DENOTES CONDENSER CONNECTION SEE WESTINGHOUSE DWG. NO. 737J012

NOTE:
THE P&I D/C &I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9009 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-
F.W. HEATER MISC. VENTS & DRAINS
(SHEET 23 OF 111)



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
TURBINE GEN. MISC. VENTS & DRAINS
(SHEET 24 OF 111)

M05-1011

ITG0IAA & ITG0IAB
MOISTURE SEPARATOR
REHEATER 1A & 1B
K-2804

REVISION 12
JANUARY 2007

ITG0IAA

ITG0IAB

CONDENSER WALL

NOTES:
1. ⌂ DENOTES CONDENSER CONNECTIONS SEE WESTINGHOUSE DRAWING 737J012
2. RELIEF VALVE SPRING CHAMBER VENT CONNECTION. INSTALL 1/2" N.P.T. ELBOW DIRECTED DOWNWARD DO NOT CONNECT TO DISCHARGE LINE OR CONDENSER.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
TURBINE GEN. MISC. VENTS & DRAINS
(SHEET 25 OF 111)

..\USAR\rev 12\fig-3-6-1-25.dgn 05/24/2006 02:51:37 PM

REV. 5

M05-1011

IFW01KA & IFW01KB
REACTOR FEED PUMP 1A & 1B
TURBINE DRIVE
K-2806

IFW01PA, IFW01PB & IFW01PC
REACTOR FEED PUMP 1A, 1B & 1C
K-2820

RFP 1C MOTOR

IFW01PC

IFW01KA

IFW01PA

IFW01KB

IFW01PB

RFP SEALS M05-1006 SHT. 1 C-6

MAIN TURBINE TRIP SIGNAL

CONDENSER M05-1011 SHT. 1 B-1

SEAL LEAK-OFF STORAGE TANK M05-1011 SHT. 4 D-3

SEAL LEAK-OFF STORAGE TANK M05-1011 SHT. 4 E-3

NOTE:
1. ORIFICE TO BE LOCATED AS CLOSE AS POSSIBLE TO CONDENSER DRAIN HEADER.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
TURBINE GEN. MISC. VENTS & DRAINS
(SHEET 26 OF 111)

REV. 5

M05-1011 SHEET 4 OF 4

1HD04TA & T3
REHEATER DRAIN TANKS 1A & 1B
K-2839

1TD01A
REHEATER BLANKETING STEAM
DRAIN COOLER
K-2814

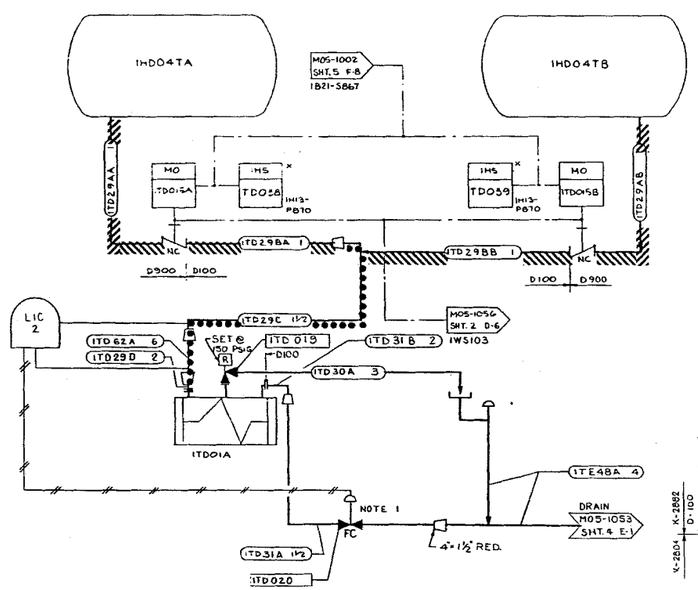
1GC01S
STATOR LIQUID
COOLING UNIT
K-2804

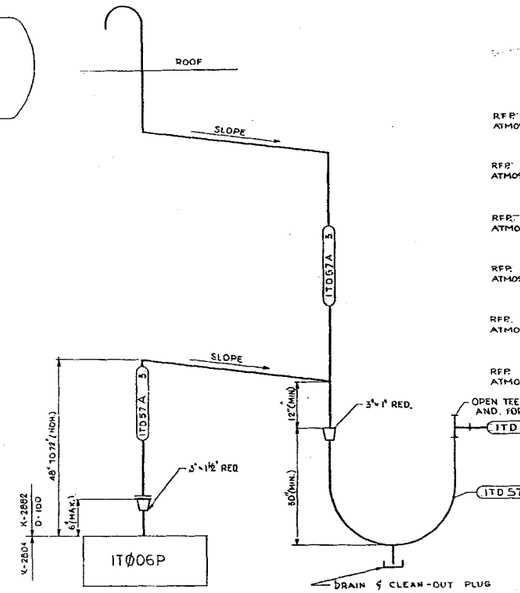
1TØ01S
MAIN TURBINE
OIL RESERVOIR
K-2804

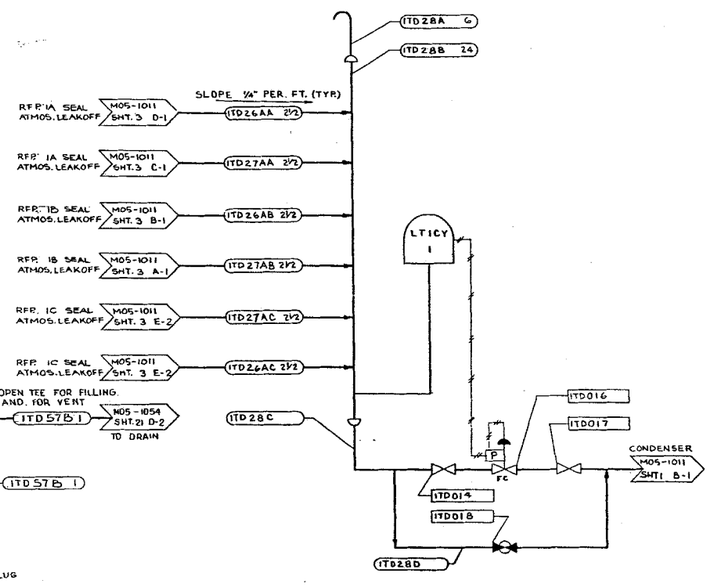
1TØ01C
LUBE OIL
VAPOR EXTRACTOR
K-2804

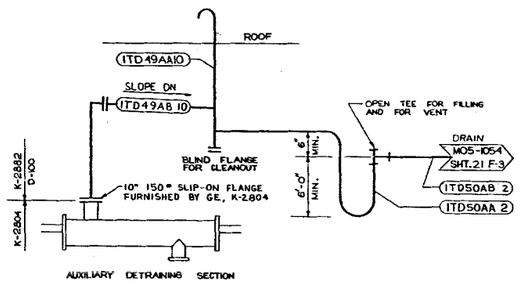
1TØ01C
LUBE OIL
MIST EUMINATOR
K-2804

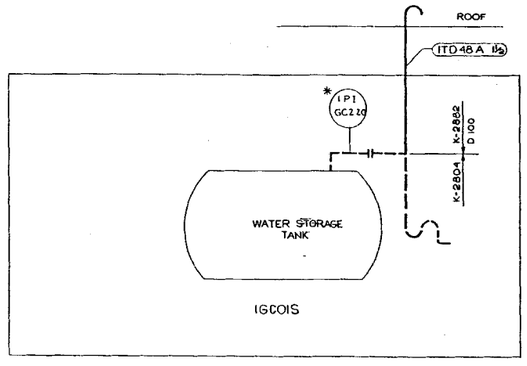
1TØ06P
SEAL OIL
VACUUM PUMP
SEPARATOR
TANK

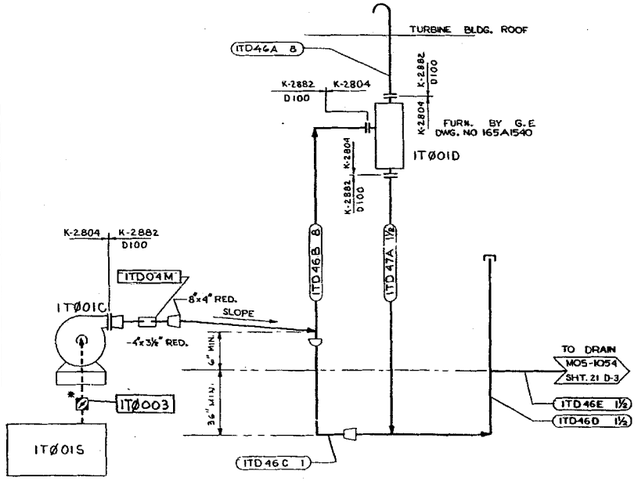












NOTE :
1. CONTROL VALVE 1TD020 TO BE LOCATED CLOSE TO DRAIN COOLER 1TD01A

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9011 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-
TURBINE GEN. MISC. VENTS & DRAINS
(SHEET 27 OF 111)

M05-1016

IGS02B
GLAND STEAM SEAL
EVAPORATOR
K-2804

REVISION 7
DECEMBER 1996

RELIEF VALVE TABULATION					
LOCATION	VALVE NUMBER	SIZE (INCHES)	CAPACITY lb/HR.	SET PRESS PSIG.	FURN. BY
STEAM SEAL HEADER (SSH)	IGS-R1A	8T10	52,000	20	G.E.
	IGS-R1B	8T10	52,000	20	G.E.
STEAM FEED TO EVAP. (SFE)	IGS R3A	8T10	215,000	140	G.E.
	IGS-R3B	8T10	215,000	130	G.E.
STEAM SEAL EVAP. (SSE)	IGS-R4	2J3	380 GAL/MIN	120	G.E.

* INDICATES COMPONENT FURNISHED BY K-2804
REFERENCE DWG. 842E420 REV. 4

NOTE:
THE P&I D/C &I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9016 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-
TURBINE GLAND STEAM SEAL SYSTEM
SHEET 28 OF 111

REVISION 7
DECEMBER 1996

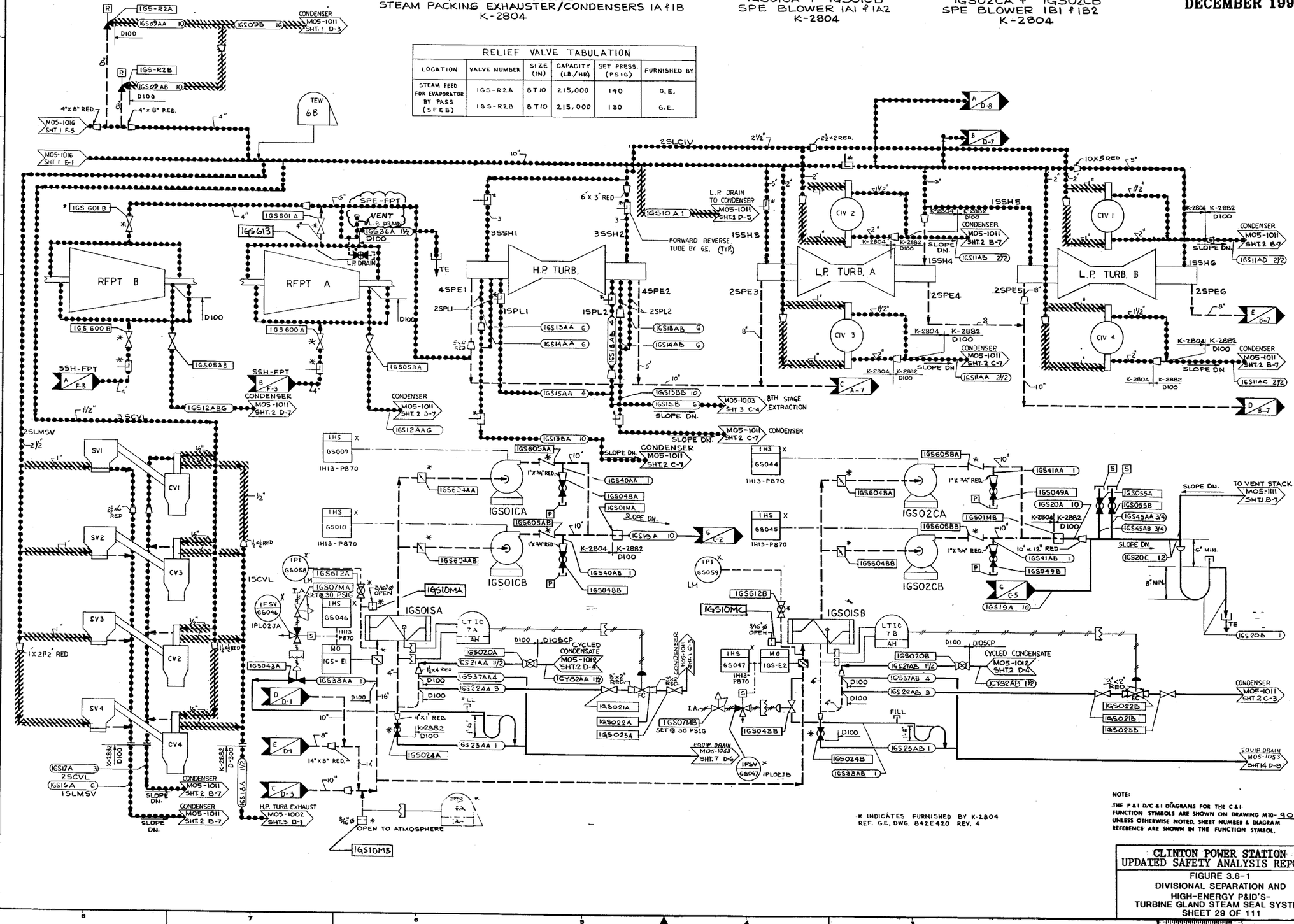
IGS01SA & IGS01SB
STEAM PACKING EXHAUSTER/CONDENSERS 1A & 1B
K-2804

IGS01CA & IGS01CB
SPE BLOWER 1A1 & 1A2
K-2804

IGS02CA & IGS02CB
SPE BLOWER 1B1 & 1B2
K-2804

RELIEF VALVE TABULATION

LOCATION	VALVE NUMBER	SIZE (IN)	CAPACITY (LB./HR)	SET PRESS. (PSIG)	FURNISHED BY
STEAM FEED FOR EVAPORATOR BY PASS (SFEB)	IGS-R2A	8 T 10	215,000	140	G.E.
	IGS-R2B	8 T 10	215,000	130	G.E.

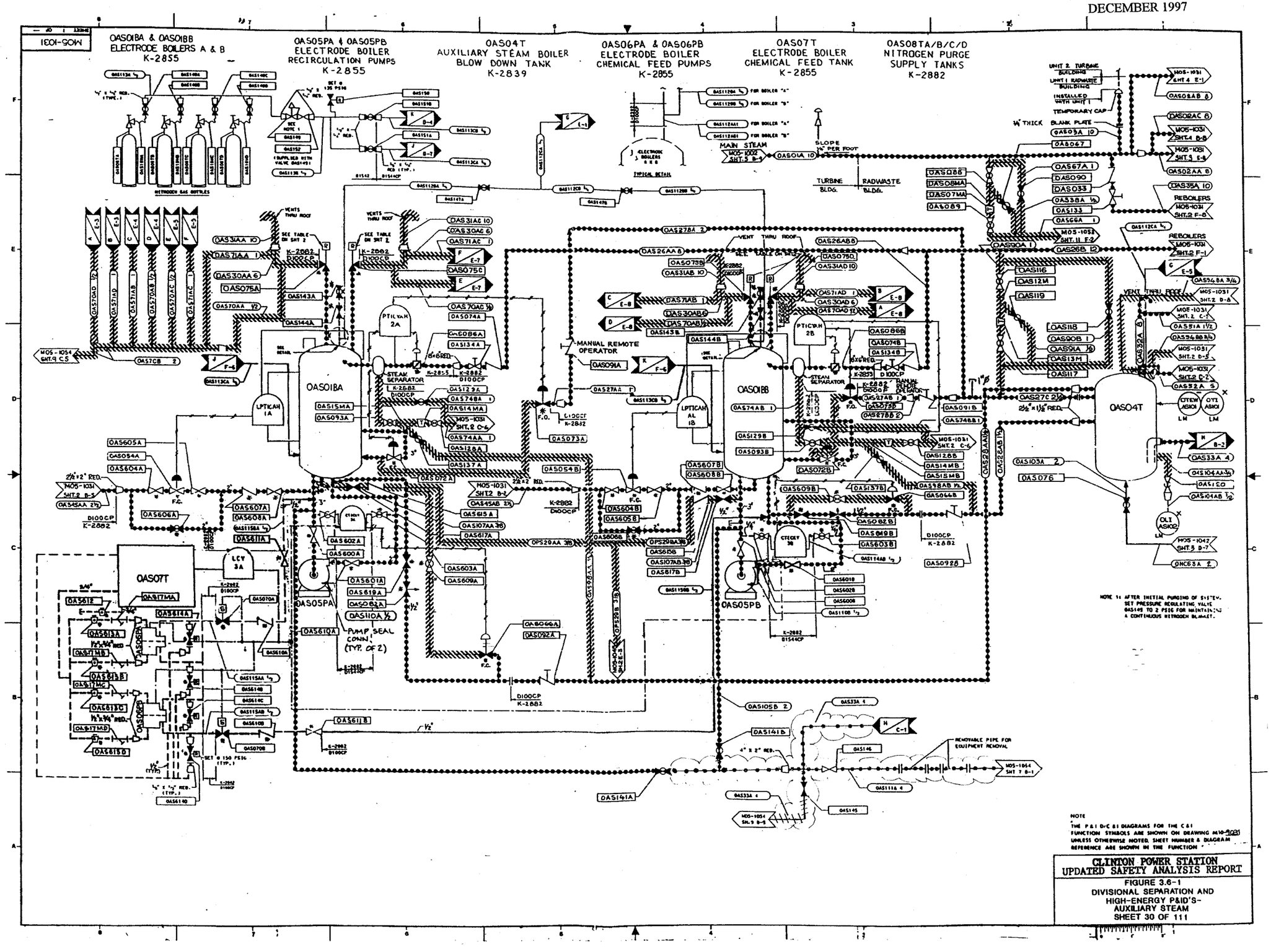


* INDICATES FURNISHED BY K-2804
REF. G.E. DWG. 842E420 REV. 4

NOTE:
THE P&I D/C&I DIAGRAMS FOR THE C&I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9016 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-
TURBINE GLAND STEAM SEAL SYSTEM
SHEET 29 OF 111



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
AUXILIARY STEAM
SHEET 30 OF 111

REVISION 6
07-14-95

M05-1031 SHEET 2 OF —

OAS02TA & OAS02TB ELECTRODE BOILER CONDENSATE DRAIN TANKS A&B K-2817

OAS03A DEAERATOR K-2821

OAS03PA, OAS03PB & OAS03PC ELECTRODE BOILER FEEDWATER PUMPS K-2825

OAS02BA & OAS02BB REBOILERS K-2817

RELIEF VALVE TABULATION

VALVE NUMBER	SIZE (INCHES)	CAPACITY (LBS/HR)	SET PRESS (PSIG)	MODEL NUMBER	FURNISHED BY	EQUIPMENT SERVED
OAS075A	4" INLET 6" OUTLET	30,132	135	CONSOLIDATED 1811 NB	K-2855	ELECTRODE BOILER A
OAS075C	4" INLET 6" OUTLET	31,142	140	CONSOLIDATED 1811 NB	K-2855	ELECTRODE BOILER A
OAS075B	4" INLET 6" OUTLET	30,132	135	CONSOLIDATED 1811 NB	K-2855	ELECTRODE BOILER B
OAS075D	4" INLET 6" OUTLET	31,142	140	CONSOLIDATED 1811 NB	K-2855	ELECTRODE BOILER B
OAS045A	4" INLET 6" OUTLET	54629	150	CONSOLIDATED 1905 PC	K-2817	REBOILER A SHELL SIDE
OAS045B	4" INLET 6" OUTLET	54629	150	CONSOLIDATED 1905 PC	K-2817	REBOILER B SHELL SIDE
OAS009A	4" INLET 6" OUTLET	17,500	75	FARRIS 26 PAII-140	K-2859	EVAPORATOR A
OAS009B	4" INLET 6" OUTLET	17,500	75	FARRIS 26 PAII-140	K-2859	EVAPORATOR B
OAS009C	4" INLET 6" OUTLET	17,500	75	FARRIS 26 PAII-140	K-2859	EVAPORATOR C
OAS08IA	¾" INLET 1" OUTLET	540	150	CONSOLIDATED 1975C	K-2817	REBOILER A TUBE SIDE
OAS08IB	¾" INLET 1" OUTLET	540	150	CONSOLIDATED 1975C	K-2817	REBOILER B TUBE SIDE
OAS060	3" INLET 4" OUTLET	18,274	80	CONSOLIDATED 1811M	K-2821	DEAERATOR
OAS098A	2" INLET 3" OUTLET	92,040	100	CONSOLIDATED	K-2869	EVAPORATOR DRAIN TANK A
OAS098B	2" INLET 3" OUTLET	92,040	100	CONSOLIDATED	K-2869	EVAPORATOR DRAIN TANK B
OAS098C	2" INLET 3" OUTLET	92,040	100	CONSOLIDATED	K-2869	EVAPORATOR DRAIN TANK C
OAS153	3" INLET 4" OUTLET	12.500	125	CONSOLIDATED	K-2869	UNIT 1 TURB. BLDG. LOAD HEATER

** Note: If optional ARC valve is used in lieu of LARC for OAS051A/B/C, 1" line (OAS46BA/B/C) is not required.

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9031 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-
AUXILIARY STEAM
SHEET 31 OF 111

M05-1031

OAS01TA
EVAPORATOR CONDENSATE
DRAIN TANK A
K-2839

1WF07A
(PART OF 1WF01S)
HEATING ELEMENT
K-2859

OAS01PA
EVAPORATOR CONDENSATE
DRAIN TANK PUMP A
K-2825

VENT TO ATMOSPHERE

INSTALLED WITH UNIT 2

UNIT 2 MAIN CONDENSER

UNIT 1 MAIN CONDENSER

SLOPE ½" PER FT.

SLOPED ½" PER FOOT

SEE TABLE ON SHT. 2

1WF07A

OAS01TA

OAS01PA

CYCLED CONDENSATE

CONDENSER

REBOILER A

REBOILER B

UNIT #1 TURB. BLDG. — RADWASTE BLDG.

UNIT #2 TURB. BLDG. — RADWASTE BLDG.

UNIT #1 FLOOR DRAIN SURGE TANKS

UNIT #2 FLOOR DRAIN SURGE TANKS

INSTALLED W/UNIT #2

NOT TO BE INSTALLED WITH UNIT #1

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-R031 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-
AUXILIARY STEAM
SHEET 32 OF 111

REV. 2 SEPT. 1990

M05-1031

0WZ07A
(PART OF 1WZ01S)
HEATING ELEMENT
K-2859

0AS01PB & 0AS01PC
EVAPORATOR CONDENSATE
DRAIN TANK PUMPS 1B & 1C
K-2825

2WF07A
(PART OF 2WF01S)
HEATING ELEMENT
K-2859

0AS01TB & 0AS01TC
EVAPORATOR CONDENSATE
DRAIN TANKS 1B & 1C
K-2839

0AS01TB

0AS01PB

0WZ07A

0AS01TC

2WF07A

0AS01PC

SLOPE AT ½" PER FOOT

SLOPE 1/16" PER FT

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1031 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-
AUXILIARY STEAM
SHEET 33 OF 111

M05-1032

1CC01T COMPONENT COOLING WATER STORAGE TANK K-2839

1CC01PA 1CC01PB & 1CC01PC COMPONENT COOLING WATER PUMPS 1A 1B & 1C K-2825

1CC01AA & 1CC01AB COMPONENT COOLING WATER HEAT EXCHANGERS 1A & 1B K-2814

OSA01C , ISA01C & 2SA01C SERVICE AIR COMPRESSOR AFTER COOLER & JACKET K-2848

1CC04M CORROSION TEST RACK (FIELD FAB.)

REVISION 9
NOVEMBER 2000

1CC01T

1CC01PA

1CC01PB

1CC01PC

1CC01AB

1CC01AA

2SA01C

OSA01C

ISA01C

AIR COOLER

OIL COOLER

TO PANEL DRAIN

L.P. DRAIN

H.P. VENT

TEMPORARY CAP

MAKE-UP CONDENSATE

INSTALLED WITH UNIT 2

SEE NOTE 2

RADWASTE BLDG.

CONTROL BLDG.

DIESEL GEN. BLDG.

FUEL BLDG.

CHECK THE DESIGN STATUS SYSTEM FOR STAMP AFFIXED CHANGE DOCUMENTS WHICH MAY AFFECT THIS DRAWING.

NOTES

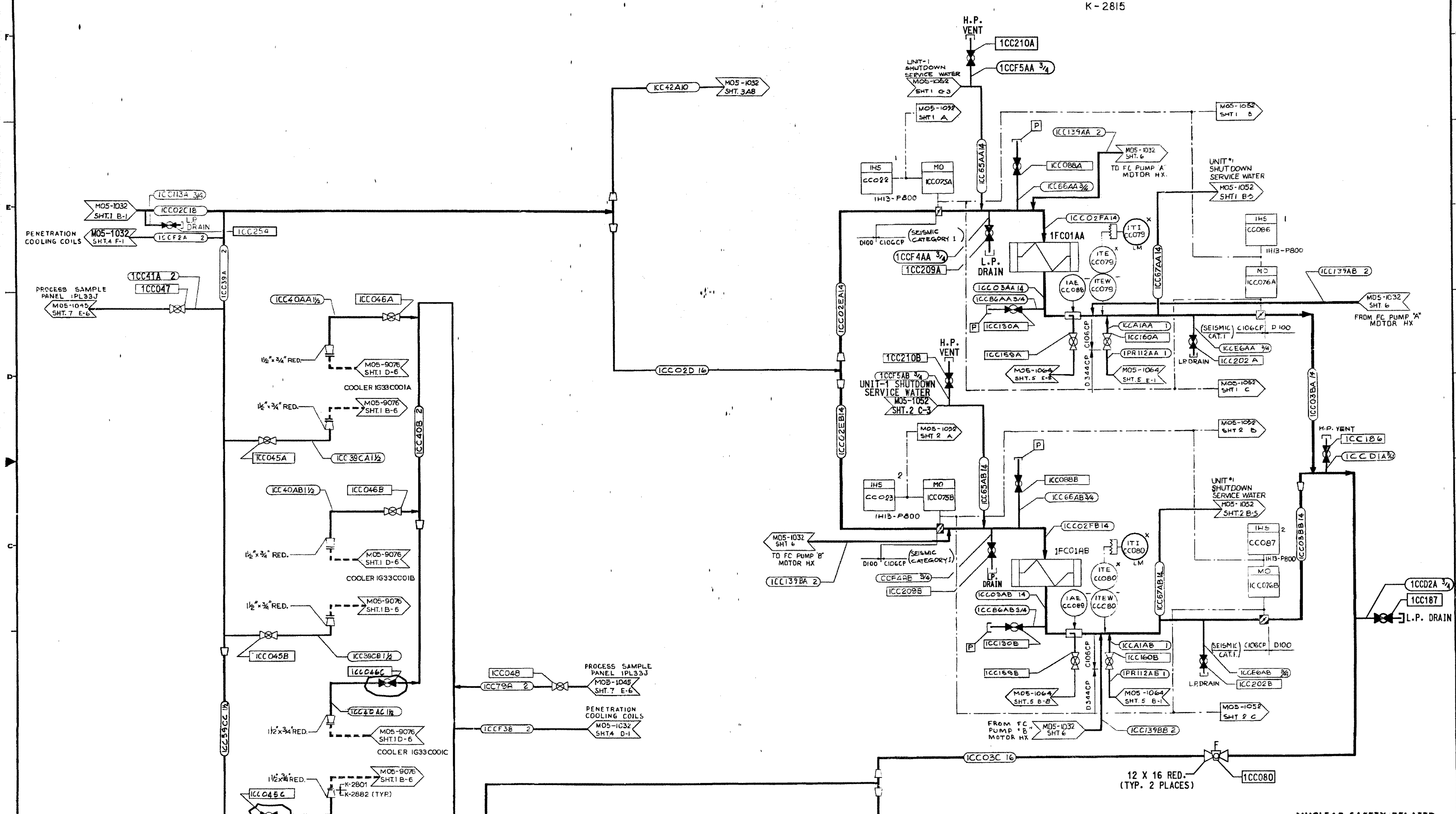
1. THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-1052 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.
2. TEMPORARY STRAINER BASKET REMOVED.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1

DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S - COMPONENT COOLING WATER
SHEET 34 OF 111

REVISION 12
JANUARY 2007



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 M10-9032 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-
COMPONENT COOLING WATER
SHEET 35 OF 111

REVISION 8
AUGUST 1999

1G33-B002A & B
REACTOR WATER CLEAN-UP
NON-REGENERATIVE HEAT
EXCHANGERS
K-2801

1RE03AA,AB&AC
DRYWELL EQUIP'T.
DRAIN COOLERS

1B33C001A & 1B33C001B
REACTOR RECIRCULATION
PUMP 1A & 1B
K-2801

1G33-Z020
REACTOR
SAMPLE STATION
K-2801

1G33-B002B

1G33-B002A

1B33C001A

1B33C001B

1RE03AA

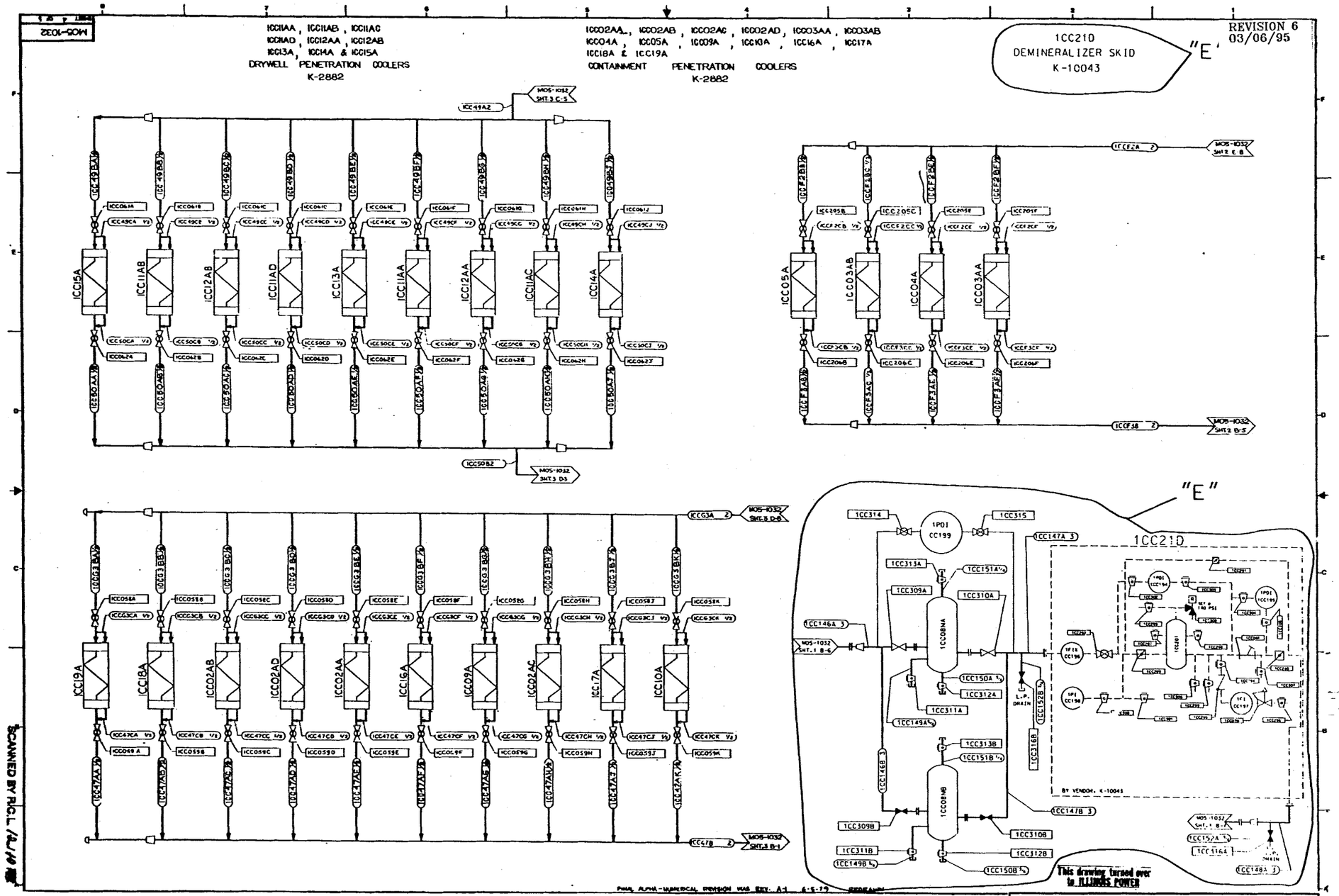
1RE03AB

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

This drawing licensed under by ILLINOIS POWER

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
COMPONENT COOLING WATER
SHEET 36 OF 111



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1

DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-COMPONENT COOLING WATER
SHEET 37 OF 111

IWF11A & 2WF11A FLOOR DRAIN EVAP. SUB-COOLERS K-2859

IWF10A & 2WF10A FLOOR DRAIN EVAPORATOR CONDENSER K-2859

OWZ10A CHEM WASTE EVAPORATOR CONDENSER K-2859

OWZ11A CHEM. WASTE EVAP SUB-COOLER K-2859

IWF14A (PART OF IWF01S) VENT COOLER (CONDENSER) K-2859

OWZ13A (PART OF OWZ01S.) VENT COOLER (HE) K-2859

OWZ14A (PART OF OWZ01S) VENT COOLER (CONDENSER) K-2859

OAS03PA, OAS03PB & OAS03PC ELECTRODE BOILER FEEDWATER PUMPS 1A, 1B & 1C K-2825

OAS05PA & OAS05PB ELECTRODE BOILER RECIRC. PUMPS A&B K-2855

OAS01PA, OAS01PB & OAS01PC EVAPORATOR CONDENSATE DRAIN TANK PUMPS 1A, 1B & 1C K-2825

2WF13A (PART OF 2WF01S) VENT COOLER (HE) K-2859

2WFDE15 DENSITY ELEMENT COOLER K-2859

IDE-WF01S DENSITY ELEMENT COOLER K-2859

ODE-WZ01S DENSITY ELEMENT COOLER K-2859

2WF14A (PART OF 2WF01S) VENT COOLER (CONDENSER) K-2859

1WF13A (PART OF IWF01S) VENT COOLER (HE) K-2859

OWX01D CONC. WASTE TANK VENT COOLER K-2859

2WF10A

2WF11A

2WF14A

2WF13A

2DE-WF01S

IWF10A

IWF11A

IWF14A

1WF13A

IDE-WF01S

OWZ10A

OWZ11A

ODE-WZ01S

OWZ14A

OWZ13A

OAS03PB

OAS03PC

OAS03PA

OAS05PA

OAS05PB

OAS01PA

OAS01PB

OAS01PC

OWX01D

PROCESS SAMPLE PANEL OPL33JC M05-1045 SHT3 F-7

PROCESS SAMPLE PANEL OPL33JA M05-1045 SHT. 1 F-7

PROCESS SAMPLE PANEL OPL33JB M05-1045 SHT. 2 F-7

PROCESS SAMPLE PANEL OPL33JA M05-1045 SHT.1 F-8

MOBILE SOLIDIFICATION STATION M05-1089 SH.1 E-2

PROCESS SAMPLE PANEL OPL33JC M05-1045 SHT.3 F-7

H.P. VENT

LP DRAIN

SET @ 150 PSIG

NOTE:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-0032 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-
COMPONENT COOLING WATER
SHEET 38 OF 111

HUMIDITY MONITORS
ABANDONED IN PLACE

SUPPRESSION POOL WATER LEVEL MONITORS

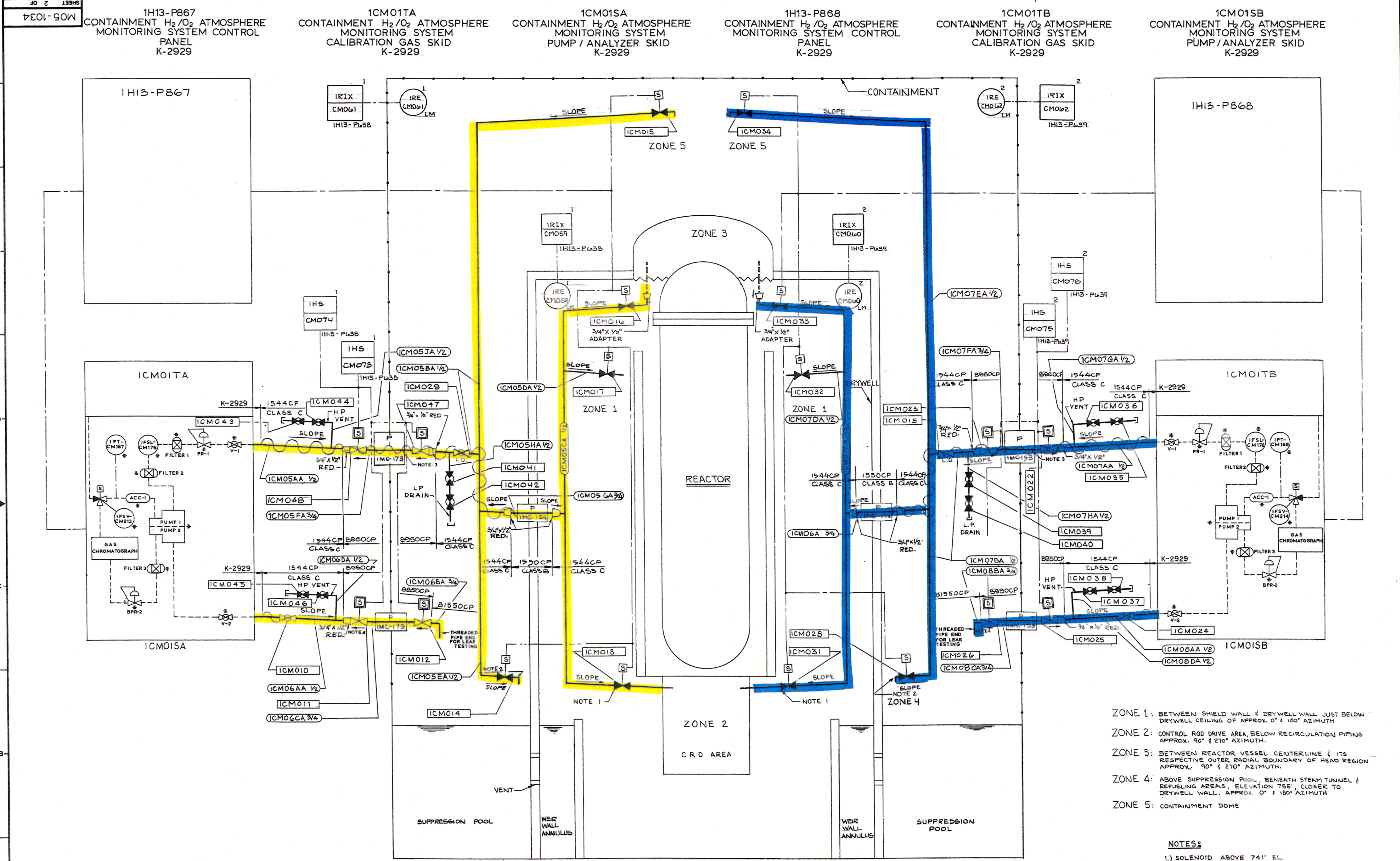
SUPPRESSION POOL TEMP. MONITORS

CONTAINMENT PRESSURE MONITORS

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 P&ID'S-
CONTAINMENT MONITORING SYSTEM
SHEET 39 OF 111



ZONE 1: BETWEEN SHIELD WALL & DRYWELL WALL JUST BELOW DRYWELL CEILING OF APPROX. 0° & 180° AZIMUTH

ZONE 2: CONTROL ROD DRIVE AREA, BELOW RECIRCULATION PIPING APPROX. 90° & 270° AZIMUTH.

ZONE 3: BETWEEN REACTOR VESSEL CENTERLINE & ITS RESPECTIVE OUTER RADIAL BOUNDARY OF HEAD REGION APPROX. 90° & 270° AZIMUTH.

ZONE 4: ABOVE SUPPRESSION POOL, BENEATH STEAM TUNNEL & REFUELING AREAS, ELEVATION 755', CLOSER TO DRYWELL WALL. APPROX. 0° & 180° AZIMUTH

ZONE 5: CONTAINMENT DOME

NOTES:

1.) SOLENOID ABOVE 741' EL.
2.) SOLENOID ABOVE 762' EL.
3.) PENETRATION IMC-153 & IMC-173, SAMPLE LINE MUST BE HEAT TRACED
4.) VALVES WITH ⟶ TO BE INSTALLED TO PROHIBIT FLOW IN DIRECTION SHOWN WHEN CLOSED.

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 P&ID'S-
CONTAINMENT MONITORING SYSTEM
SHEET 40 OF 111

SUPPRESSION POOL WATER LEVEL MONITORS

CONTAINMENT & DRYWELL ATMOSPHERE TEMPERATURE MONITORS

DRYWELL PRESSURE MONITORS

LEVEL TRANSMITTER ARRANGEMENT
(TYP. 12 PLACES, ICM-260 A THRU F & ICM-261 A THRU F.)

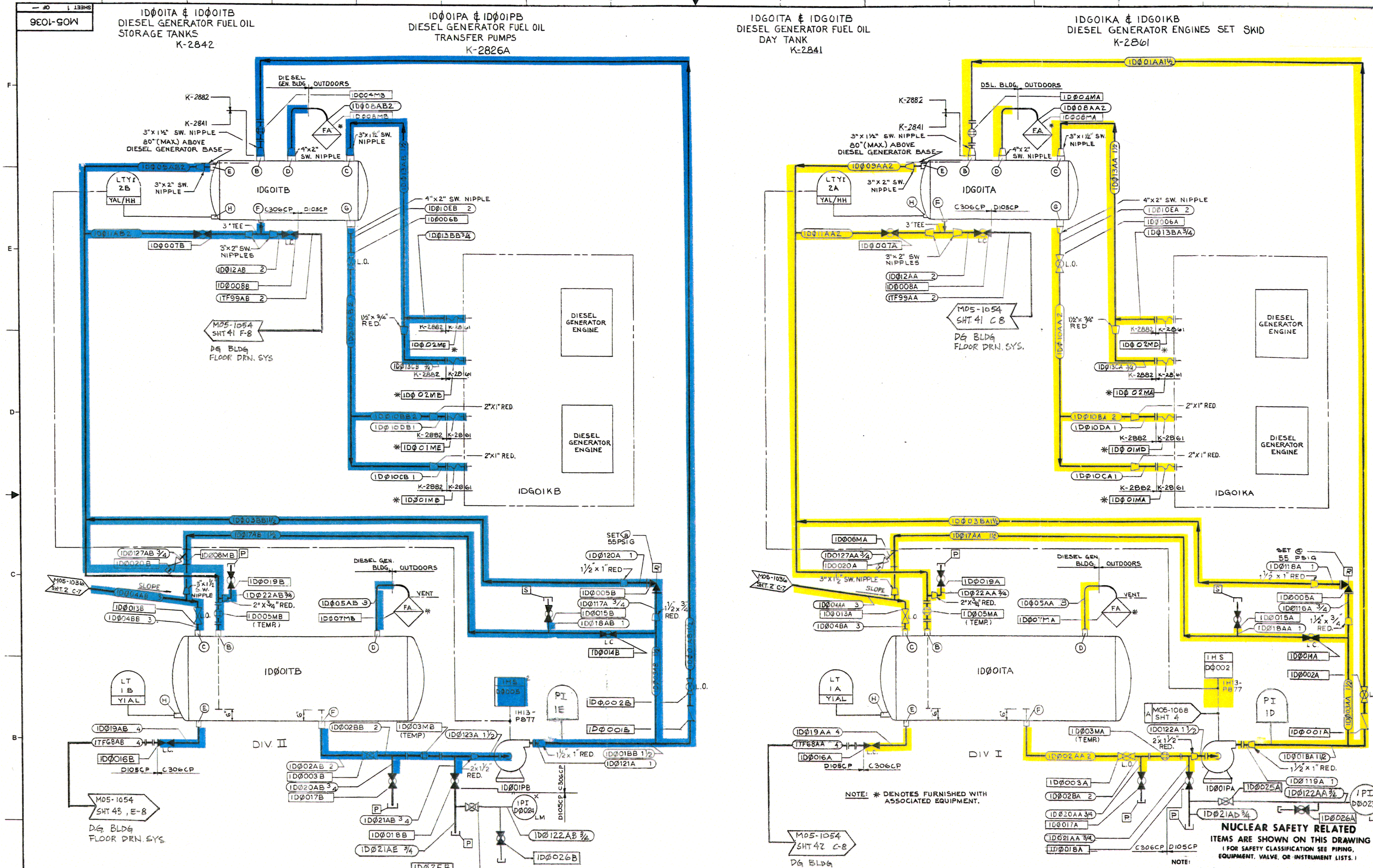
INST. NO.		LINE NO.	VALVE NO.
ILT-CM260 A	HI	ICM17BB	ICM050A
	LO	ICM09BB	ICM057A
B	HI	ICM17CB	ICM053B
	LO	ICM09CB	ICM057B
C	HI	ICM17DB	ICM050C
	LO	ICM09DB	ICM057C
D	HI	ICM17EB	ICM050D
	LO	ICM09EB	ICM057D
E	HI	ICM17FB	ICM050E
	LO	ICM09FB	ICM057E
F	HI	ICM17GB	ICM050F
	LO	ICM09GB	ICM057F
ILT-CM261 A	HI	ICM14BB	ICM049A
	LO	ICM15BB	ICM060A
B	HI	ICM14CB	ICM049B
	LO	ICM15CB	ICM060B
C	HI	ICM14DB	ICM049C
	LO	ICM15DB	ICM060C
D	HI	ICM14EB	ICM049D
	LO	ICM15EB	ICM060D
E	HI	ICM14FB	ICM049E
	LO	ICM15FB	ICM060E
F	HI	ICM14GB	ICM049F
	LO	ICM15GB	ICM060F

NUCLEAR SAFETY RELATED
ITEMS ARE SHOWN ON THIS DRAWING

This drawing turned over to ILLINOIS POWER

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND
HIGH-ENERGY P&ID'S-
CONTAINMENT MONITORING SYSTEM
SHEET 41 OF 111



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:
THE P & I D/C & I DIAGRAMS FOR THE C & I FUNCTION SYMBOLS ARE SHOWN ON DRAWING M10-9036 UNLESS OTHERWISE NOTED. SHEET NUMBER & DIAGRAM REFERENCE ARE SHOWN IN THE FUNCTION SYMBOL.

CLINTON POWER STATION
FINAL SAFETY ANALYSIS REPORT

FIGURE 3.6-1
DIVISIONAL SEPARATION AND HIGH-ENERGY P&ID'S-
DIESEL GENERATOR FUEL OIL SYSTEM
SHEET 42 OF 111