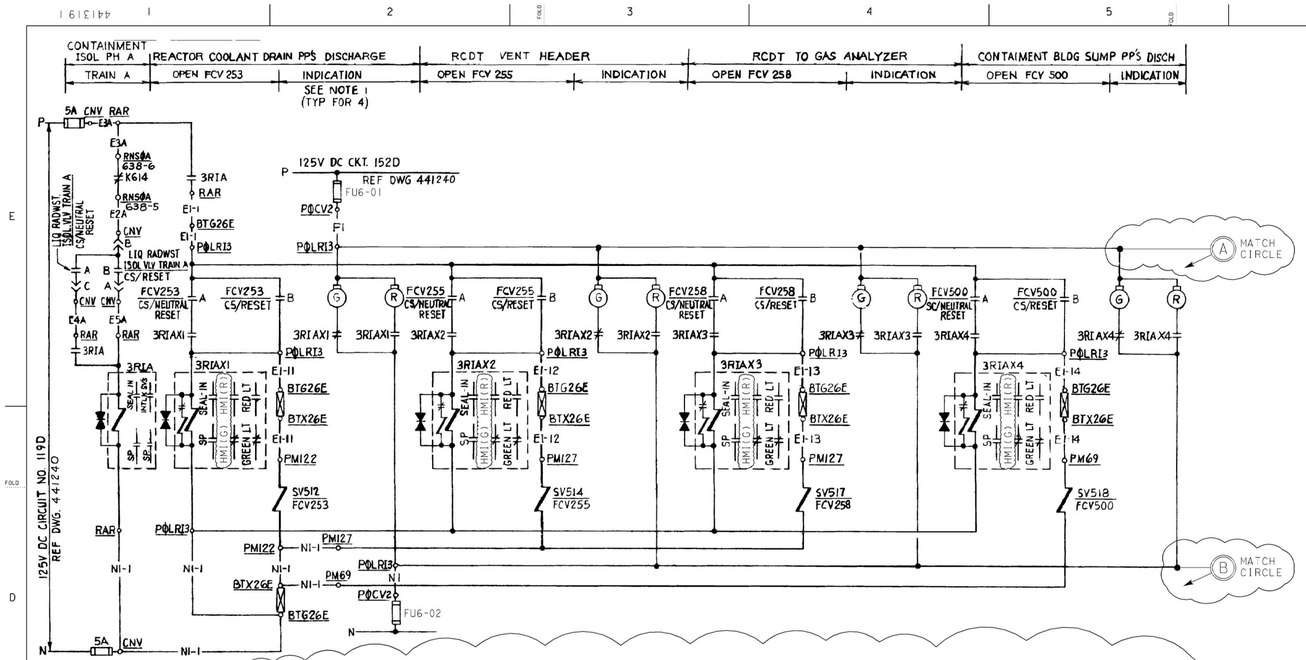
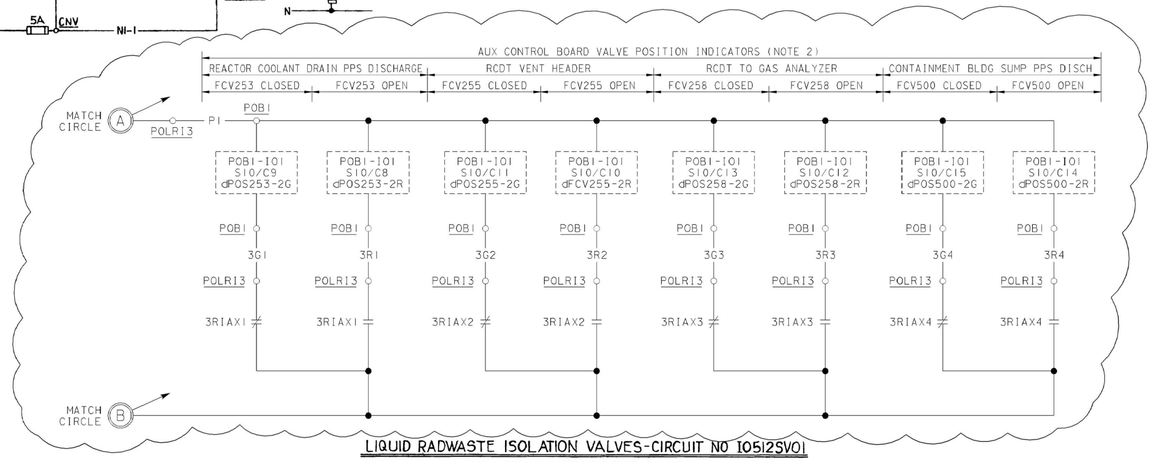




LIQUID RADWASTE ISOLATION VALVES-CIRCUIT NO 10512SV01

CIRCUITS LISTED ON DWG. 102770

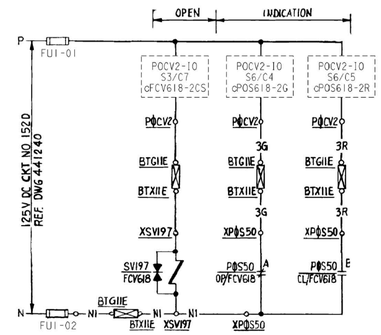
CONTACTS		POSITION CLOSE	POSITION NEUT	POSITION RESET	REMARKS	REMARKS
	A		X	X	TRAIN A	THIS DWG.
	B			X	TRAIN A	THIS DWG.
	C	X	X	X	TRAIN B	—
	D			X	TRAIN B	—

CONTROL SWITCH - LIQUID RADWASTE ISOLATION VALVE TRAIN A, LIQUID RADWASTE ISOLATION VALVE TRAIN B

CS, CS

FCV253 CS, FCV254 CS, FCV255 CS, FCV256 CS, FCV 257 CS, FCV258 CS, FCV260 CS, FCV500 CS, FCV501 CS

USED AT LOCATIONS CNV, PØLRI3, PØLRI4



FCV618 RCDT DRAIN-CIRCUIT NO 10197SV01

CIRCUITS LISTED ON DWG 102770

CONTACTS		VALVE POSITION CLOSE	VALVE POSITION OPEN	REMARKS		
				FCV's 254, 256, 257, 260 & 501	FCV's 253, 255, 258 & 500	FCV618
	A	X		GREEN LT AND SEAL-IN	SPARE	(HMI (G))
	B		X	SPARE	↓	SPARE
	C	X		SPARE		
	D		X	SEAL-IN		↓

VALVE OPEN POSITION SWITCH

CONTACTS		VALVE POSITION CLOSE	VALVE POSITION OPEN	REMARKS		
				FCV's 254, 256, 257, 260 & 501	FCV's 253, 255, 258 & 500 Δ	FCV618
	A	X		SPARE	SPARE	SPARE
	B		X	RED LT AND HMI (R)	SPARE	(HMI (R))
	C	X		SPARE	SPARE	SPARE
	D		X	MONITOR LT.	SPARE	↓

VALVE CLOSE POSITION SWITCH

Δ SWITCHES FOR FCV253 & 500 ABANDONED IN PLACE SWITCHES FOR FCV255 & 258 REMOVED

TABLE OF DEVICES

DEVICE NO.	FUNCTION	RATING	MFR.	TYPE	CAT./DWG. NO	REMARKS
K613 K614	CONTAINMENT ISOLATION PHASE A AUX. RELAY	—	—	—	(12)	
SV512 513, 514, 515, 517, 518, 519, 532, 533, 197	SOLENOID VALVES	—	—	—		
R3	GAS ANALYZER. AUX CONT. RELAY	—	—	—	(10)	SAMPLE POINT. NO. 3
R3X	↓ ↓ ↓ RELAY	125V DC	C-H	M	D26MRD42A1	
FCV___	FLOW CONTROL VALVE	—	—	—		SEE DWG FOR NØ
POB1-101	AUX CONTROL BD PLC		A/B		(13)	MOUNTED IN POB1
POCV2-10	AUX CONTROL BD PLC		A/B		(13)	MOUNTED IN POCV2
POS___	VALVE POSITION SWITCH	—	—	—		SEE DWG FOR NØ
3RIA, 3RIB	RADWASTE ISOL. RESET AUX. RELAY	125V DC	GE	IC2820	IC2820-AD0REV	
3RIAX1, -4	↓ ↓ ↓ ↓		C-H	M	D26MRD42A1	
3RIBX1, -5	↓ ↓ ↓ ↓		C-H	M	↓	
3-SV513, 515 532, 519, 538	VALVE CONTROL AUXILIARY RLY	125V DC	C-H	M	D26MRD20A1	4RB876-2

CONTACTS		POSITIONS CLOSE	POSITIONS OPEN & INTERM	REMARKS (FOR FCV's 253, 258 & 500)
	A	X		SPARE
	B		X	SPARE
	C	X		SPARE
	D		X	MONITOR LT (RED. SL)

VALVE CLOSE POSITION SWITCH POS1187A, POS1193A, POS1202A, POS1205A

EQUIPMENT LOCATION NUMBERS

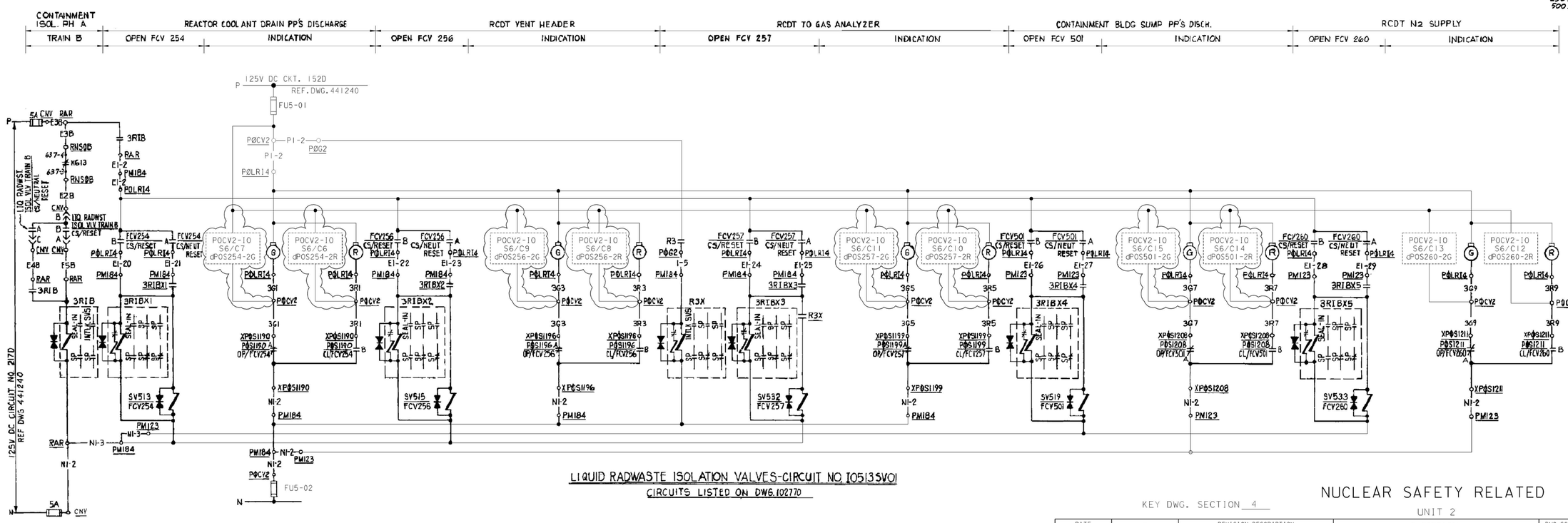
CNV CONTROL BOARD CHEMICAL & VOLUME CONTROL
PØCV2 CONTROL PANEL UNIT 2 CHEMICAL VOLUME (AUX. BLDG. CONT. BD.)
RNS8A RACK NUCLEAR SAFEGUARD OUTPUT A
XPØS1190 INSTRUMENT POS 1190 (LOCAL MOUNTED)
XSV197 INSTRUMENT SV197 (LOCAL MOUNTED).
BTG26E TERMINAL BOX G 26E
PM184 MECHANICAL PANEL NO. 184 REACTOR COOLANT DRAIN
BTH110 TERMINAL BOX AREA H Nº 110
PØG2 CONTROL PANEL GAS ANALYZER UNIT 2
RAR AUXILIARY RELAY RACK
PØLRI3 LIQUID RADWASTE ISOLATION VALVE CONTROL PANEL NO.3
PØLRI4 " " " " " " " 4

NOTE
1. LIGHTS INDICATE CONTROL STATUS RATHER THAN VALVE POSITION
2. HMI INDICATION INDICATES CONTROL STATUS RATHER THAN VALVE POSITION.

REFERENCE DRAWINGS

1. DESCRIPTION OF ELECT. SCHEMATIC DIAG. & CKT. DESIGNATIONS — DWG. # 050003
2. EQUIPMENT LOCATION NUMBERS — DWG. # 103013
3. PIPING SCHEMATIC — LIQUID RADWASTE SYSTEM — DWG. # 108019
4. INSTRUMENT SCHEMATIC - FLOW INSTRUMENT SYSTEM — DWG. # 108032
5. SINGLE LINE METER & RELAY — 125 V DC SYSTEM — DWG. # 441240
6. CIRCUIT SCHEDULE NUCLEAR CONTROL — DWG. # 102770
7. (M) FUNCTION DIAGRAMS — REC. # 663195
8. (M) SOLID STATE PROTECTION SYSTEM — REC. # 663231
9. SCHEMATIC DIAGRAM MONITOR LIGHT AUX RELAYS — DWG # 445381
10. SCHEMATIC DIAGRAM GAS ANALYZER — DWG. # 441332
11. ARRG'T & DIAG. OF CONN LIQUID RADWASTE ISOL. VLV. CONT. PNL - DWG. # 454899
12. SCHEM. DIAG. SSPS OUTPUT RELAYS, TRAIN A, TRAIN B — DWG. 503089, 503093
13. AUX CONTROL BD SYS FUNCTIONAL REQUIREMENTS SPEC — DWG. 663195-33

VALVE NO'S: FCV253, 254, 255, 256, 257, 258, 260, 500, 501 & 618.



LIQUID RADWASTE ISOLATION VALVES-CIRCUIT NO 10513SV01

CIRCUITS LISTED ON DWG. 102770

KEY DWG. SECTION 4

NUCLEAR SAFETY RELATED

UNIT 2

P.G.&E. SYSTEM PHASE SEQUENCE A-C-B

DATE	
08-29-2011	
D.D.	MNRU
R.E.	SMB5
I.V.	
P.E.	R2M5

REVISION DESCRIPTION: REVISED PER DAS-6*426-0

ELECTRICAL SCHEMATIC DIAGRAM LIQUID RADWASTE SOLENOID VALVES

DIABLO CANYON POWER PLANT
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

DWG SCALE:			
BILL OF MATL:			
SUPSDS:			
SUPSD BY:			
DRAWING	SHEET	PAGE	REV
441319	1	0	10

U1-437684

RASTER=eru12587.DGN
DGN=eru12587.DGN
CAD User:MNRU Date:08-29-2011