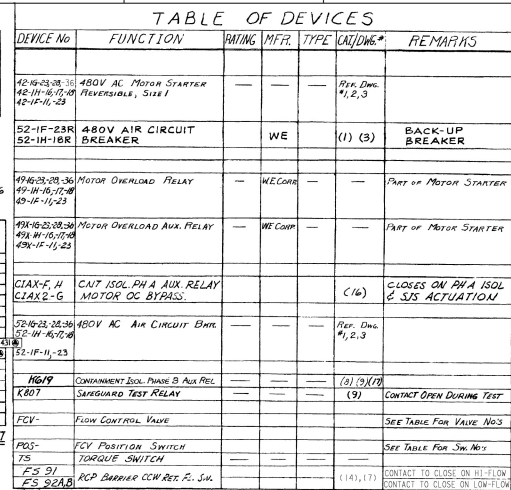
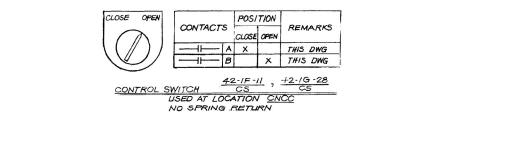
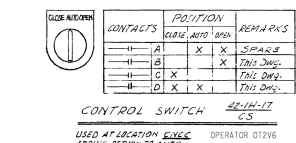




VALVE NO.	DESCRIPTION	CKT BKG NO.	CKT NO.	BUS	SECT	POSITION	SHUTTER SIGNAL W/OUT FUNCTION	VALVE NO.	SPFS TEST PUMP/UTION	CMTR ISOL PH A	ALARM CKT. No.	LOCATION	MOTOR LOCATION	ISOLATION SIGNAL	PHASE B	REFRDS
									PS SW# 1	TRM BLK	PS SW# 1	TRM BLK	TRAINING			
PCV343	NOVOP. CLR COW HEAD CKT. W/2	5216	63	B308	14	OPEN	P	B308	PCV343	W/2-1	CLAXE	W/2-1	CLAXE	W/2-1	W/2-1	W/2-1
PCV355	NOVOP. CLR SUPPLY HEADER CKT.	5216	63	B308	14	OPEN	P	B308	PCV355	W/2-1	CLAXE	W/2-1	CLAXE	W/2-1	W/2-1	W/2-1
PCV356	NOVOP. CLR SUPPLY HEADER CKT.	5216	63	B308	14	OPEN	P	B308	PCV356	W/2-1	CLAXE	W/2-1	CLAXE	W/2-1	W/2-1	W/2-1
PCV430	COW HKI OUTLET HEADER A	5216	63	B308	14	OPEN	P	B308	PCV430	W/2-1	CLAXE	W/2-1	CLAXE	W/2-1	W/2-1	W/2-1
PCV431	COW HKI OUTLET HEADER B	5216	63	B308	14	OPEN	P	B308	PCV431	W/2-1	CLAXE	W/2-1	CLAXE	W/2-1	W/2-1	W/2-1
PCV457	COW HKI OUTLET HEADER C	5216	63	B308	14	OPEN	P	B308	PCV457	W/2-1	CLAXE	W/2-1	CLAXE	W/2-1	W/2-1	W/2-1



LEGEND:
▲ MOVS PROVIDED WITH FIELD INSTALLED "QUICKTEST" CABLE ASSEMBLIES.
SEE APPLICABLE DIAGRAM OF CONNECTIONS.

EQUIPMENT LOCATION NUMBERS

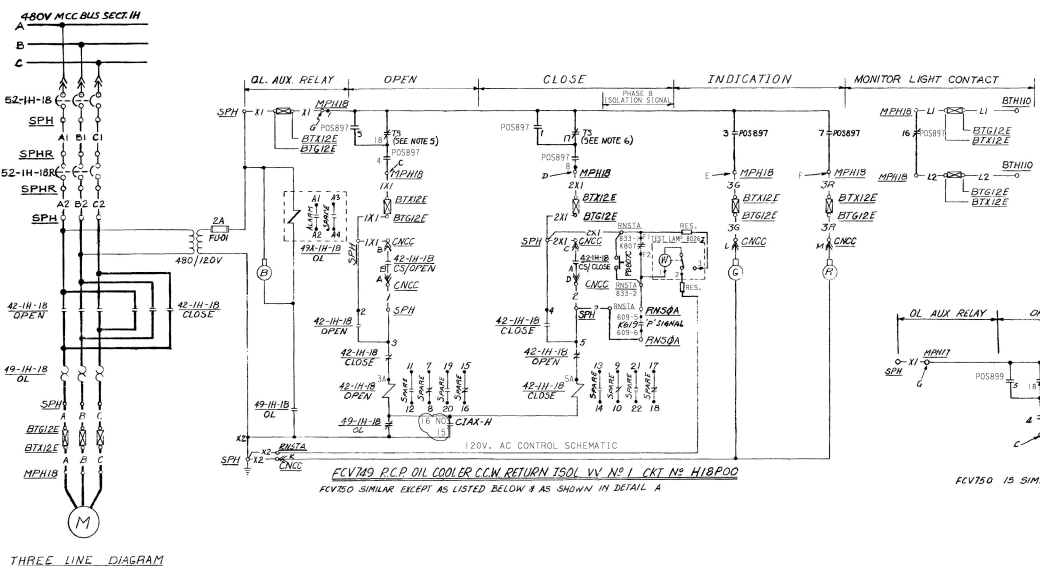
SPG - 480V MOTOR CONTROL CENTER BUS SECTION 16
MPGE2 - MOTOR OPERATED VALVE FCV363
CNGC - CONTROL BOARD, COMPONENT COOLING
BTG12E - TERMINAL BOX, AREA G, NO. 12E
BTH10 - TERMINAL BOX, AREA H NO. 110
RNSDE - RACK NU. SAFEGD. OUTPUT TRAIN B
RNS1A - RACK NU. SAFEGD. TEST TRAIN B
SPHR - 480V MCC BUS SECTION 1H, BACK-UP P.C.

NOTES:

1. MONITOR LIGHT APPLIES FOR FCV333, FCV335, FCV356 ONLY.
3. POS CONTACT INTERLOCK WITH TEMP. SW. TS181A & B FOR FCV 333 AND TS182A & B FOR FCV 431. THERE SHOULD BE NO ALARM IF SW IS CLOSED. SEE REFERENCE 13.
5. SWITCH OPENS ON MECHANICAL TORQUE DURING OPENING CYCLE (BT).
6. SWITCH OPENS ON MECHANICAL TORQUE DURING CLOSING CYCLE OR FULLY CLOSED VALVE (TT).
7. FIELD TO INSTALL JUMPER FOR TORQUE SEATING.
(FOR FCV357 AND FCV750 ONLY, FCV 749 NOT APPLICABLE)

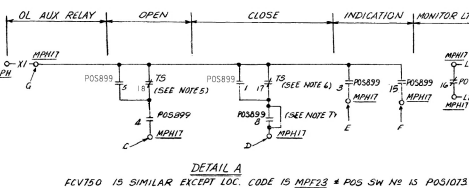
REFERENCE DRAWINGS

- REFERENCE DRAWINGS**
- 1- SINGLE LINE METER & RELAY DIAGRAM, 480V SYSTEM BUS SECT.
 - 2- _____
 - 3- _____
 - 4- DESCRIPTION OF LUMP SCHEMATIC DIAG. SYMBOLS & CRT DESIGNATIONS
 - 5- EQUIPMENT LOCATION NUMBER LIST
 - 6- INSTRUMENT SYMBOLS FOR COOLING WATER SYSTEM
 - 7- INSTRUMENT SCHEMATIC FLOW INSTRUMENT SYSTEMS
 - 8- @ FUNCTION DIAGRAM
 - 9- @ SOLID STATE PROTECTION SYSTEM
 - 10- WIRING DIAGRAM, ROTOR CIRCULATOR FC1769
 - 11- LUMINOUSQUE WIRING DIAG. FC1363, 355, 356, 430 & 431
 - 12- INSTRUMENT SCHEMATIC TEMP. INSTRUMENT SYSTEM
 - 13- SCHEMATIC DIAGRAM MAIN ANNUATOR LUMP SET
 - 14- SCHEMATIC DIAGRAM MONITOR LIGHT BOX D
 - 15- SCHEMATIC DIAGRAM MONITOR LIGHT BOX E
 - 17- SCHEM. DIAG. SPS OUTPUT RELAYS, TRAIN A, TRAIN B _____



CONTACTS	DIALVE POSITION		FUNCTION CONTACTS 1 TO 9	FUNCTION CONTACTS 9 TO 16
	FULL OPEN	FULL CLOSED		
— 1 9	—	—	1 BYPASS INTLK	9 SPARE
— 2 10	—	—	2 SPARE	10 SPARE
— 3 11	—	—	3 GREEN LIGHT	11 SPARE
— 4 12	—	—	4 OPEN INTLK	12 SPARE
— 5 13	—	—	5 BYPASS INTLK	13 SPARE
— 6 14	—	—	6 SPARE	14 SPARE
— 7 15	—	—	7 RED LIGHT	15 SPARE
— 8 16	—	—	8 SEE NOTE 7	16 MONITOR LTG

FCV749, FCV357 & FCV750 W POSITION SWITCH CONTACT DEVELOPMENT
ACTUAL SETPOINTS ARE IN PIMS



VALVE NO.	DESCRIPTION	CKT BKR NO.	CIRCUIT	BUS NO.	80S NO.	SECT.	NEAR SAFETY FUNCTION	VALVE POSITION INDICATOR	SPSS TEST PUSHBUTTON	CUT ISOL PH A	RESTR.	MOTOR LOG. NO.	CONTAINMENT PHASE B ISOLATION	ALARM CKT. NO.					
		PRIMARY BACK UP							PB SW* TERMINAL TRAIN A	MOTOR LOG. AT PASS DEVICES CONTACT		DEVIC LOG. NO.	CONTACT						
RCV 749	R.C.P. COOL COOL. CTR. RETURN ISOL. V.1	52-11-18	52-11-18	H10	FD	1	OPEN	F 897	F	PB07G	B31-1,2	RNSTA	CLAX-H 15-11	12E	MPH10	K619	RNS2A	7B609 2-11	A4228DH
RCV 750	R.C.P. THERM BARRIER CTR. RET. ISOL. V.1	52-1F-23	52-1F-23	F23	FD	1	OPEN	F 1073	F	PB07D	B31-1,2	RNSTA	CLAX-F 3-11	26E	MPF23	K619	RNS2A	7B609 2-11	A45480DF

NUCLEAR SAFETY RELATED

VALVE NO' s: FCV355,FCV356,FCV357,FCV363,FCV430,FCV431,FCV749 & FCV750

KEY DWG. SECTION <u>4</u>		UNIT 1		STATE OF CALIFORNIA	
DATE	3/3/99	DESCRIPTION	COORDINATION	DWG. SCALE	
DWN.	ABBO	Revised per AB 4043245 & FC 403274	INCL.	BILL OF MATERIALS	
APP.	PRAC		MECH.	SUPPLY	
INSTR.			ELEC.	SHEET NO. 1 OF 1	
DATE	3/3/99		CIVIL	REV. 1	
P.E.	ABBO		PLUMB	437608 20	
REVISION INFORMATION			PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA		

