

8880 ACCUMULATOR N<sub>2</sub> SUPPLY HEADER CIRCUIT NO. RSI118

OTHER S.I.S. VALVES SIMILAR AS SHOWN BELOW. USE DETAIL "A" CONTROL SWITCH FOR ALL VALVES.

VALVE NO.	DESCRIPTION	D.C. CNT. NO.	VALVE LOC. NO.	SOL. VALVE NO.	SOL. VALVE LOC. NO.	VALVE POSITION SW. (CLOSED/OPEN)	ENG. SFQD.	ERFDS NO.	LOC. OF CONTROL DEVICE	SAFETY INJECTION SIGNAL	ISOLATION SIGNAL PHASE A	PENN. NO.			
8880	ACCUM N <sub>2</sub> SUPPLY HDR.	317D	X8880	357	PM184	RSI118	CLOSED	T	877	878	MUX03-12-2	CNAC	K605	RNS6B	41-1-#-41-2
8871	ACCUM TEST ISOLATION VALVE	317D	X8871	224	PM127	RSI138	CLOSED	T	874	873	MUX03-12-1	CNAC	K605	RNS6A	41-1-#-41-2
8874	ACCUM TEST SOLID STATE RELAY	215D	X8874	555	PM184	RSI150	CLOSED	T	870	889	MUX02-23-1	CNAC	K605	RNS6B	41-1-#-41-2
8883	SAFETY INJECTION TEST LINE	215D	X8883	340	PM184	RSI191	CLOSED	T	883	884	MUX02-23-2	CNAC	K605	RNS6B	41-1-#-41-2

CONTROL SWITCH

CONTACT	POSITIONS			REMARKS
	CLOSE	NEUT.	OPEN	
0-1-0 A	X			SPARE
0-1-0 B			X	THIS DWG.
0-1-0 C		X	X	THIS DWG.
0-1-0 D	X	X	X	SPARE

DETAIL "A"  
CONTROL SWITCH 8880, 8871, 884, 883  
USED AT LOCATIONS CNAC, CNR  
SPRING RETURN TO NEUTRAL FROM OPEN.

CONTROL SWITCH

CONTACT	POSITIONS			REMARKS
	CLOSE	OPEN		
0-1-0 A		X		THIS DWG.
0-1-0 B	X			SPARE

DETAIL "B"  
CONTROL SWITCH 8875A  
USED AT LOCATIONS CNAC, CNR  
NO SPRING RETURN.

VALVE OPEN POSITION SWITCH

CONTACTS	POSITIONS		REMARKS
	CLOSE	OPEN	
0-1-0 A	X		GREEN LIGHT
0-1-0 B		X	SPARE
0-1-0 C	X		SPARE
0-1-0 D	X		SEE NOTE

NOTE: SEAL IN FOR POS 873, 878, 884, 889  
SPARE FOR ALL OTHER POS'S

VALVE CLOSE POSITION SWITCH

CONTACTS	POSITIONS		REMARKS
	CLOSE	OPEN	
0-1-0 A	X		RED LIGHT
0-1-0 B	X		SPARE
0-1-0 C	X		SEE NOTE
0-1-0 D	X		SPARE

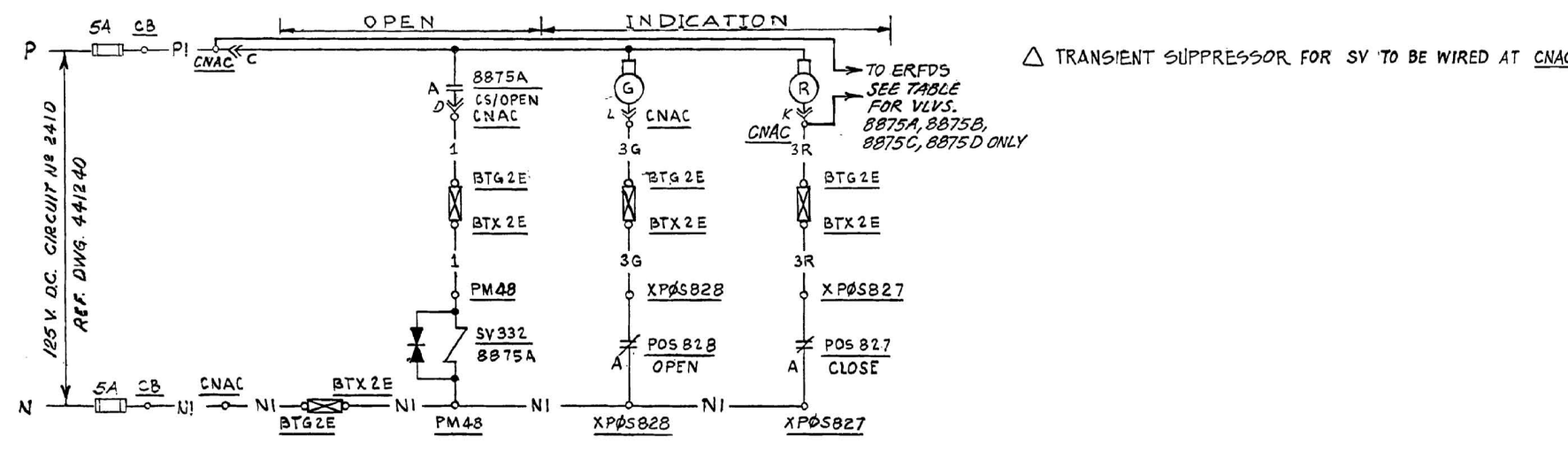
NOTE: MONITOR Lf FOR POS 874, 877, 883, 889  
SPARE FOR ALL OTHER POS'S

TABLE OF DEVICES

DEVICE NO.	FUNCTION	RATING	MFR.	TYPE	CAT. / DWG. NO.	REMARKS
SV 357, 332, 333, 340, 341, 342, 345, 346, 347, 350, 351, 352, 360, 356, 224, 258	SOLENOID VALVE					
88	FLOW CONTROL VALVE					SEE TABLE FOR VALVE NO.
POS	VALVE POSITION SWITCH					SEE TABLE FOR SWITCH NO.
K605	CONTAINMENT ISOLATION PHASE A AUX. RELAY				REF. II	

- EQUIPMENT LOCATION NUMBERS
- CNR --- CONTROL BOARD RESIDUAL HEAT
  - CNAC --- CONTROL BOARD ACCUMULATOR SERVICE
  - RNS6A --- NUCLEAR SAFEGUARD OUTPUT RACK A
  - PM64 --- MECH. PANEL NO. 64 ACCUMULATOR TANK 21A
  - X8870A --- AIR OPERATED VALVE 8870A
  - BTG26E --- TERMINAL BOX G 26E
  - BTH10 --- TERMINAL BOX H 110

- REFERENCE DRAWINGS
- EQUIPMENT LOCATION NUMBERS --- DWG. NO. 103013
  - DESCRIPTION OF ELECT. SCHEMATIC DIAGRAM SYMBOLS AND CIRCUIT DESIGN --- DWG. NO. 050003
  - PIPING SCHEMATIC - SAFETY INJECTION SYSTEM --- DWG. NO. 108009
  - INSTRUMENT SCHEMATIC - FLOW INSTRUMENT SYSTEM --- DWG. NO. 108032
  - SINGLE LINE METER & RELAY 125 V.D.C. SYSTEM --- DWG. NO. 441240
  - CIRCUIT SCHEDULE - NUCLEAR CONTROL --- DWG. NO. 102770
  - FUNCTION DIAGRAMS --- REG. NO. 663195
  - SOLID STATE PROTECTION SYSTEM --- REG. NO. 609231
  - SCHEMATIC DIAGRAM MONITOR LIGHT BOX B,C --- DWG. NO. 441453, 4
  - BLOCK DIAG. - ERFDS TECH. SUPPORT CTR. & CONT. RM. --- DWG. NO. 445297
  - SCHEM. DIAG. SPS OUTPUT RELAYS, TRAIN A, TRAIN B --- DWGS. 503089, 503093



8875A ACCUMULATOR TANK 21 VENT CIRCUIT NO. RSI001

OTHER S.I.S. VALVES SIMILAR AS SHOWN IN TABLE. USE DETAIL "B" CONTROL SWITCH FOR ALL VALVES.

VALVE NO.	DESCRIPTION	D.C. CNT. NO.	VALVE LOC. NO.	SOL. VALVE NO.	SOL. VALVE LOC. NO.	VALVE POSITION SW. (CLOSED/OPEN)	ENG. SFQD.	ERFDS NO.	LOC. OF CONTROL DEVICE	CIRCUIT NO.	PENN. NO.
8875A	ACCUM. TANK 21 VENT	247D	X8875A	332	PM49	827	828	MUX04-17-1	CNAC	RSI001	2E
8876A	ACCUM. TANK 21 DRAIN		X8876A	333	PM29	829	830		CNAC	004	2E
8878A	ACCUM. TANK 21 SUPPLY		X8878A	340	PM29	843	844		CNAC	025	2E
8875B	ACCUM. TANK 22 VENT		X8875B	341	PM125	845	846	MUX04-17-2	CNAC	028	2E
8876B	ACCUM. TANK 22 DRAIN		X8876B	342	PM66	847	848		CNAC	031	2E
8878B	ACCUM. TANK 22 SUPPLY		X8878B	345	PM66	853	854		CNAC	040	2E
8875C	ACCUM. TANK 23 VENT		X8875C	346	PM46	855	856	MUX04-17-3	CNAC	043	11E
8876C	ACCUM. TANK 23 DRAIN		X8876C	347	PM69	857	858		CNAC	046	11E
8878C	ACCUM. TANK 23 SUPPLY		X8878C	350	PM69	863	864		CNAC	055	2E
8875D	ACCUM. TANK 24 VENT		X8875D	351	PM62	865	866	MUX04-17-4	CNAC	058	2E
8876D	ACCUM. TANK 24 DRAIN		X8876D	352	PM71	867	868		CNAC	061	2E
8878D	ACCUM. TANK 24 SUPPLY		X8878D	356	PM70	875	876		CNAC	073	2E

VALVE NOS.: 8880, 8875A, 8876A, 8878A, 8875B, 8876B, 8878B, 8875C, 8876C, 8878C, 8875D, 8876D, 8878D, 8879D, 8871, 8861.

KEY DWG. SECTION 4

NUCLEAR SAFETY RELATED

DATE 10-29-2009	REVISION DESCRIPTION REVISED PER DON-2*401	DWG. SCALE: BILL OF MATL: SUPDS: DRAWING BY: SHEET 1	REV 0
D.D. AJFJ		DWG. NO. 441316	PAGE 0
R.E. FXC2		SHEET 1	REV 0
I.V.			
P.E. AGB2			

UNIT 2  
ELECTRICAL SCHEMATIC DIAGRAM  
SAFETY INJECTION SYSTEM SOLENOID VALVES

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