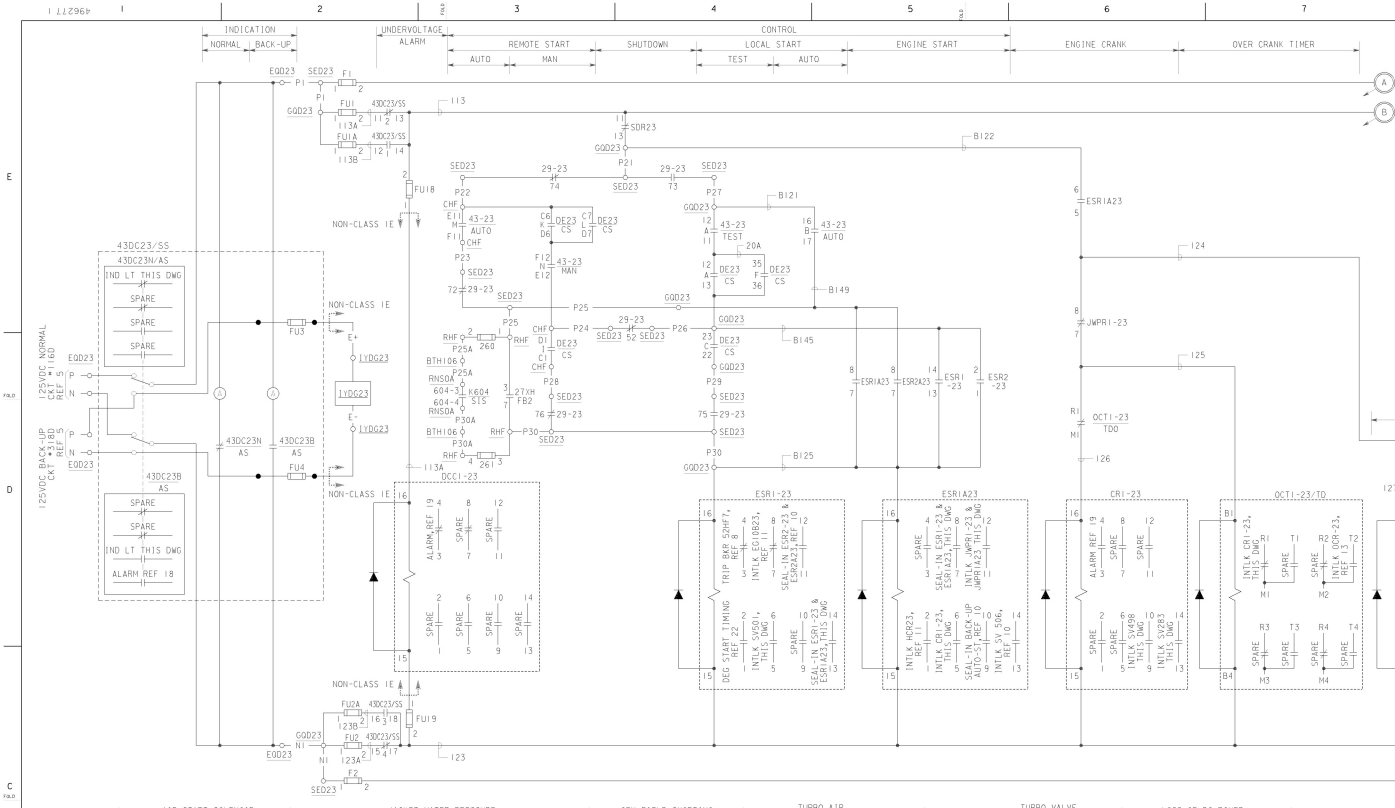


TABLE OF DEVICES

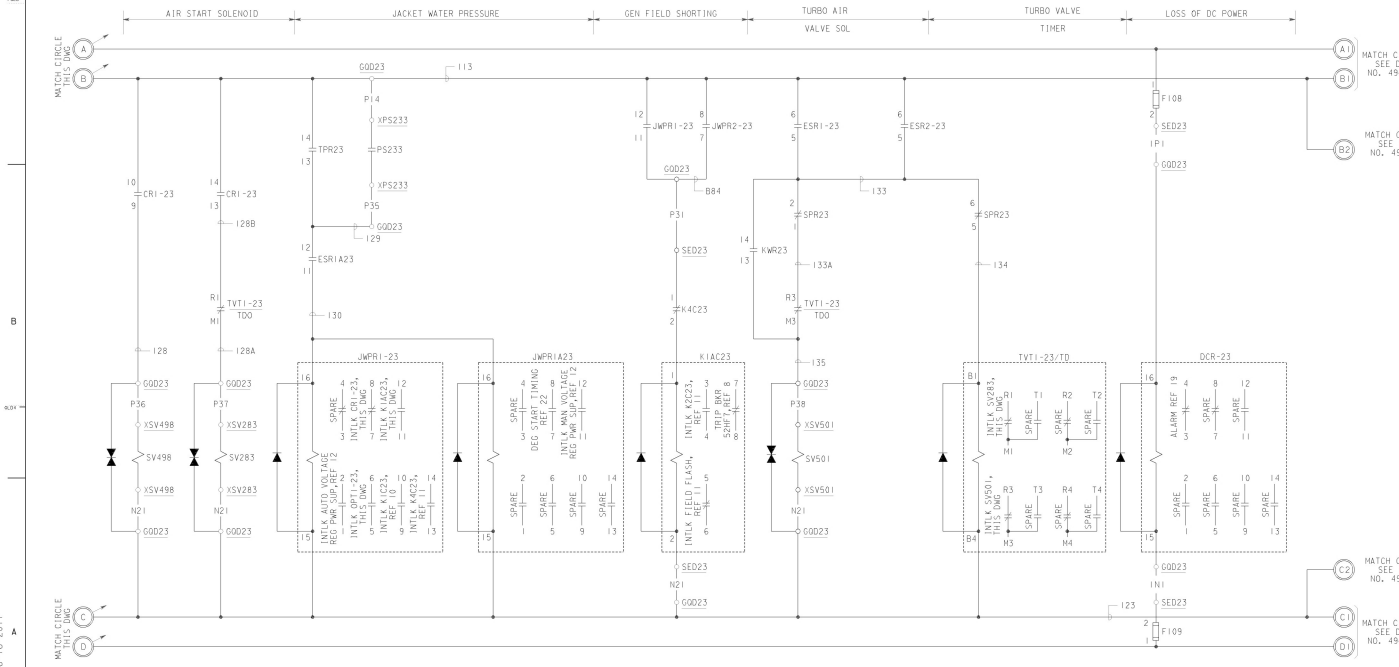
DEVICE NO.	FUNCTION	RATING	MFR	TYPE	CATALOG OR REF DWG	REMARKS
SV498,283	AIR START SOLENOID VALVE	74VDC	R.O.VALVE		2171A8913	
CRI-23	ENGINE CRANKING RELAY	120VDC	C-H	R	D40RR70A1	
ESRI-23	ENGINE START RELAY	120VDC	C-H	R	D40RR52A1	
ESRIA23	ENGINE START RELAY	120VDC	C-H	R	D40RR70A1	
ESR2-23,ESR2A23	ENGINE START RELAY	——	——	——	10	
DCCI-23	UNDERVOLTAGE AUX RELAY	120VDC	C-H	R	D40RR52A1	
JWPRI-23	JACKET WATER PRESSURE RELAY (START CKT)	120VDC	C-H	R	D40RR52A1	
PS233	JACKET WATER PRESSURE SW (START CKT)	——	U.E.	J6	MODEL 156	
JWPRIA23	JACKET WATER PRESSURE RELAY (START CKT)	120VDC	C-H	R	D40RR70A1	
KIAC23	GEN FIELD SHORTING CONTACTOR	125VDC	W	M	493A570GD3	
K4C23	GEN VOLTAGE SHUTDOWN RELAY	——	——	——	11	
OCTI-23/TD	OVERCRANK TIMER	125VDC	AGASTAT	ETR	ETR14D3D-003	2 TO 60SEC SET 10SEC
OPTI-23/TD	OIL PRESSURE TIMER	125VDC	AGASTAT	ETR	ETR14D3D-003	2 TO 60SEC SET 20SEC
TPR23	TACHOMETER RELAY	——	——	——	11	
SDR23	DIESEL SHUTDOWN ELECTRIC-RESET RELAY	——	——	——	13	
SPR23	SPEED RELAY	——	——	——	11	
TVTI-23/TD	TURBO VALVE TIMER	125VDC	AGASTAT	ETR	ETR14D3B-003	.55 TO 155SEC SET 35SEC
SV501	TURBO AIR VALVE SOLENOID	125VDC	ASCO	——	WPHCX8210B82	
K604 SIS	SAFETY INJECTION AUX RELAY	——	——	——	17	
27XHFB2	4KV BUS UV AUX RELAY	——	——	——	16	
KWR23	KILOWATT RELAY	——	——	——	11	
JWPR2-23	JACKET WATER PRESSURE RELAY	——	——	——	10	
29-23	DIESEL CONTROL SW	——	——	——	10	
43-23	DIESEL ENGINE SELECTOR SW	——	——	——	10	
DCR-23	UNDERVOLTAGE RELAY	120VDC	C-H	R	D40RR52A1	
43DC23/SS	MANUAL DC POWER SELECTOR SWITCH	——	——	——	11	
EGI0B23	ENGINE RUN SOLENOID (PART OF HYDRAULIC ACTUATOR)	——	——	——	11	

STOP START

3-POSITION, RETURN TO POS 12

CONTACTS		(DE/CS) POSITION STOP	—	NORM	—	START	REMARKS
A11-B11	A	X					REF 11
A12-B12	B			X			SPARE
A1-B1	C					X	REF 10
A5-B5	D	X	X				SPARE
A6-B6	E		X	X	X		REF 10
A7-B7	F				X	X	REF 10
C11-D11	G	X					SPARE
C12-D12	H			X			SPARE
C1-D1	I					X	THIS DWG
C5-D5	J	X	X				SP
C6-D6	K		X	X	X		THIS DWG
C7-D7	L				X	X	THIS DWG
E11-F11	M	X					SPARE
E12-F12	N			X			SPARE
E1-F1	O					X	SPARE
E5-F5	P	X	X				SPARE
E6-F6	Q		X	X	X		SPARE
E7-F7	R				X	X	SPARE

DIESEL ENGINE CONTROL SWITCH DE23/CS USED AT LOC CHF



DIESEL GENERATOR NO. 23, CONTROL CIRCUIT NO. 3GDF

STOP START

SPRING RETURN TO NORMAL

DECK	CONTACTS		POSITION STOP	—	NORM	—	START	REMARKS
1	12○HH○13	A				X	X	THIS DWG
	16○HH○17	B				X	X	REF 10
2	22○HH○23	C				X	X	THIS DWG
	26○HH○27	D				X	X	REF 10
3	31○HH○32	E		X	X	X		REF 10
	35○HH○36	F		X	X	X		THIS DWG
4	40○HH○41	G	X					REF 11
	44○HH○45	H	X					SPARE
5	51○HH○58	I	X					SPARE
	54○HH○55	J	X					▼

DIESEL ENGINE CONTROL SWITCH DE23/CS USED AT LOC GQD23

EQUIPMENT LOCATION

SED23	DIESEL GENERATOR 23 EXCITATION CUBICLE
GQD23	DIESEL GENERATOR 23 CONTROL PANEL
RHF	ENGINEERING SAFEGUARD RELAY BOARD BUS F
CHF	CONTROL BOARD ENGINEERING SAFEGUARD BUS F
RNSOA	RACK NUCLEAR SAFEGUARD OUTPUT A
EQD23	MANUAL DC POWER SELECTOR SWITCH
IYDG23	DEG 23 START TIMING STATIC INVERTER

REFERENCES

	DWG NO.
1. DESCRIPTION OF ELECTRICAL SCHEMATIC DIAG SYMBOLS & CIRCUIT DESIGNATIONS	050003
2. LIST OF EQUIPMENT LOCATION CODES	103013
3. LOGIC DIAG 4160V BUS SECTIONS "F" AUTOMATIC TRANSFER	441286
4. SINGLE LINE METER & RELAY DIAG 4160V SYSTEM BUS SECTIONS "F"	441229
5. SINGLE LINE METER & RELAY DIAG 125VDC SYSTEM	441240
6. SINGLE LINE DIAG MAIN CONTROL BD 2VB1-2VB2 FUSE PANELS	451805
7. SCHEMATIC DIAG 4160V DIESEL GENERATOR NO. 23 & ASSOCIATED CIRCUIT BREAKERS SH 1	496275
8. SCHEMATIC DIAG 4160V DIESEL GENERATOR NO. 23 & ASSOCIATED CIRCUIT BREAKERS SH 2	496276
9. SCHEMATIC DIAG 4160V DIESEL GENERATOR NO. 23 CONTROL SH 1	496277
10. SCHEMATIC DIAG 4160V DIESEL GENERATOR NO. 23 CONTROL SH 2	496278
11. SCHEMATIC DIAG 4160V DIESEL GENERATOR NO. 23 CONTROL SH 3	496279
12. SCHEMATIC DIAG 4160V DIESEL GENERATOR NO. 23 CONTROL SH 4	496280
13. SCHEMATIC DIAG 4160V DIESEL GENERATOR NO. 23 CONTROL SH 5	496281
14. SCHEMATIC DIAG 4160V DIESEL GENERATOR NO. 23 AUXILIARY MOTORS	496282
15. SCHEMATIC DIAG DIESEL FUEL TRANSFER PUMPS	437657
16. SCHEMATIC DIAG 4160V BUS SECTION "F" AUTOMATIC TRANSFER	441352
17. SCHEMATIC DIAG STATE PROTECTION SYSTEM TRAIN A OUTPUT RELAYS	503089
18. SCHEMATIC DIAG MAIN ANNUNCIATOR SH 10	500780
19. SCHEMATIC DIAG MAIN ANNUNCIATOR SH 15,16,17	500785,6,7,8
20. DIESEL GENERATOR MFR DRAWINGS	6011476
21. SCHEMATIC DIAG MAIN ANNUNCIATOR SH 23	500639
22. VENDOR DWG DG START TIMING DAS	663082-342 THRU 354

NUCLEAR SAFETY RELATED

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

KEY DWG. SECTION 2

DATE	
06-16-2011	
D.D.	JBMX
R.E.	FXC2
I.V.	
P.E.	R2H5

REVISION DESCRIPTION: REVISED PER DFT-7*1247

UNIT 2

ELECTRICAL
SCHEMATIC DIAGRAM
4160V DIESEL GENERATOR CONTROL
NO. 23

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

DWG SCALE:	
BILL OF MATL:	
SUPSDS:	
SUPSD BY:	
DRAWING	496277
SHEET	1
PAGE	0
REV	7

RASTER:496277.dgn
DGN:496277.dgn
CAD User:JBMX Date:06-16-2011