



TABLE OF DEVICES						
DEVICE NO.	FUNCTION	RATING	MFR	TYPE	CATALOG OR REF DWG	REMARKS
A	AMMETER	—	—	—	3	
W	WATTMETER	—	—	—	3	
VAR	VARMETER	—	—	—	3	
WTD	WATT TRANSDUCER	—	SCIENTIFIC COLUMBUS	XL31K5A2	3	
VARD	VAR TRANSDUCER	—	—	—	3	
VTD	VOLT TRANSDUCER	—	—	—	3	
RW	RECORDING WATTS	—	YOKOGAWA	DX1004N	3	
RF	RECORDING FREQ	—	YOKOGAWA	DX1004N	3	
RVAR	RECORDING VAR	—	YOKOGAWA	DX1004N	3	
RV	RECORDING VOLTMETER	—	YOKOGAWA	DX1004N	3	
WH	WATT HOUR METER	—	—	—	3	
F	FREQUENCY METER	—	—	—	3 & 4	
DRA23, B23	DROOP RELAY (UNIT-PARALLEL)	—	—	—	10	
32HF7	DIRECTIONAL POWER RELAY	—	—	—	3	
40HF7	LOSS OF FIELD RELAY	—	—	—	3	
46HF7	UNIT NEGATIVE SEQUENCE RELAY	—	—	—	3	ALARM ONLY
50NH7	GND CURRENT SENSOR RELAY	—	—	—	3	ALARM ONLY
51HF7	DIESEL GENERATOR O/C RELAY	—	—	—	3	
52HF7	AIR CIRCUIT BREAKER	—	—	—	3	
87HF7	DIESEL GEN DIFF O/C RELAY	—	—	—	3	
K3-23	FIELD FLASH CUT-OUT RELAY	—	—	—	3	
FTD	FREQ TRANSDUCER	—	—	—	3	
RTM	RUNNING TIME METER	—	—	—	3	
V	VOLTMETER	—	—	—	3	
MASL23	MANUAL AUTO SW FOR VOLTAGE REG	—	—	—	11	
29-23	DIESEL CONTROL ISOLATING SW	—	—	—	9	
EG10B23	ENGINE RUN SOLENOID (PART OF HYDRAULIC ACTUATOR)	—	—	—	10	
YM-3B	DG23 EGA OUTPUT VOLTS SIGNAL ISOLATOR	—	MOORE	IND UB	FCT/0-5V/0-5V/U	
YM-3C	DG23 EGA MOP INPUT SIGNAL ISOLATOR	—	MOORE	IND UB	FCT/0-5V/0-5V/U	
YM-3D	DG23 GEN VOLTS ADJ MOP SIGNAL ISOLATOR	—	MOORE	IND UB	FCT/0-10V/0-10V/U	

(GSL, GSR)						
CONTACTS	LOWER	OFF	RAISE	REMARKS		
A11-B11	A			THIS DWG		
A12-B12	B			THIS DWG		
A1-B1	C			THIS DWG		
A5-B5	D			SPARE		
A6-B6	E			THIS DWG		
A7-B7	F			SPARE		

GOVERNOR CONTROL SWITCH 65-23 CS
SPRING RETURN TO OFF
USED AT LOC CHF & SED23

VOLTMETER SWITCH V/S USED AT LOCATIONS SED23						
CONTACTS	OFF	PHASE A-B	PHASE B-C	PHASE C-A	REMARKS	
A					THIS DWG	
B					THIS DWG	
C					THIS DWG	
D					THIS DWG	
E					THIS DWG	
F					THIS DWG	

- ### EQUIPMENT LOCATION
- BTA500 DIESEL GEN 23 DC FIELD TERM BOX
 - GDD23 DIESEL GEN 23 CONTROL PANEL
 - SHF7 SWGR 4160V BUS F CUB 7
 - RHF ENG SAFEGUARD RELAY BOARD BUS F
 - SED23 DIESEL GEN NO. 23 EXCITER CUBICLE
 - GDD23 DIESEL GEN NO. 23 MAIN LEAD TERM BOX
 - BTA503 DIESEL GEN NO. 23 NEUT CT TERM BOX
 - CHF CONTROL BOARD ENGRD SFGRD BUS F
 - XEG10B HYDRAULIC ACTUATOR
 - PM-DST23 DG23 START TIMING DATA ACQUISITION (DAS) PANEL

- ### NOTES
- NAMEPLATE VALUES DEPICTED ON THIS DRAWING, REFER TO CALC 015-DC (SAP# 9*37760) FOR RATED VALUES.

- ### REFERENCES
- | DESCRIPTION | DWG NO. |
|---|---------------------|
| 1. DESCRIPTION OF ELECT SCHEMATIC DIAG SYMBOLS & CIRCUIT DESIGNATION | 050003 |
| 2. LIST OF EQUIPMENT LOCATION CODES | 067998 |
| 3. SINGLE LINE METER & RELAY DIAG 4160V SYS BUS SECTION F | 441229 |
| 4. SINGLE LINE METER & RELAY DIAG INST AC SYSTEM SH 2 | 441242 |
| 5. SCHEMATIC DIAG POTENTIAL & SYNCHRONIZING 4160V SYSTEM SH 2 | 441340 |
| 6. SCHEMATIC DIAG 4160V BUS DIFFERENTIAL SH 2 | 441343 |
| 7. SCHEMATIC DIAG 4160V DIESEL GEN NO. 23 & ASSOCIATED CIRCUIT BREAKER SH 2 | 496276 |
| 8. SCHEMATIC DIAG 4160V DIESEL GEN NO. 23 CONTROL SH 1 | 496277 |
| 9. SCHEMATIC DIAG 4160V DIESEL GEN NO. 23 CONTROL SH 2 | 496278 |
| 10. SCHEMATIC DIAG 4160V DIESEL GEN NO. 23 CONTROL SH 3 | 496279 |
| 11. SCHEMATIC DIAG 4160V DIESEL GEN NO. 23 CONTROL SH 4 | 496280 |
| 12. SCHEMATIC DIAG 4160V DIESEL GEN NO. 23 CONTROL SH 5 | 496281 |
| 13. SCHEMATIC DIAG MAIN ANNUNCIATOR SH 17 | 500787 |
| 14. EXCITER/REGULATOR (BASLER) MFR DWG | 663082 |
| 15. DAS VENDOR DWG | 663082-342 THRU 354 |

DIESEL GENERATOR NO. 23 AND ASSOCIATED CIRCUIT BREAKER - CKT NO. F07H

NUCLEAR SAFETY RELATED

UNIT 2

DATE 02-24-2020	REVISION DESCRIPTION Revised Per DFT-7*5086	DWG SCALES BILL OF MATL: SUPDS: SUPSD BY:
D.O.D. FAZI	DRAWING 496275	SHEET 1
R.E. RXG2	PAGE 0	REV 11
T.V. N/A	PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA	
P.E. N/A	DFT-7*5086	

RASTER: 496275-1-0.dgn
 C:\N\496275-1-0.dgn
 C:\N\496275-1-0.dgn
 C:\N\496275-1-0.dgn
 02-24-2020