

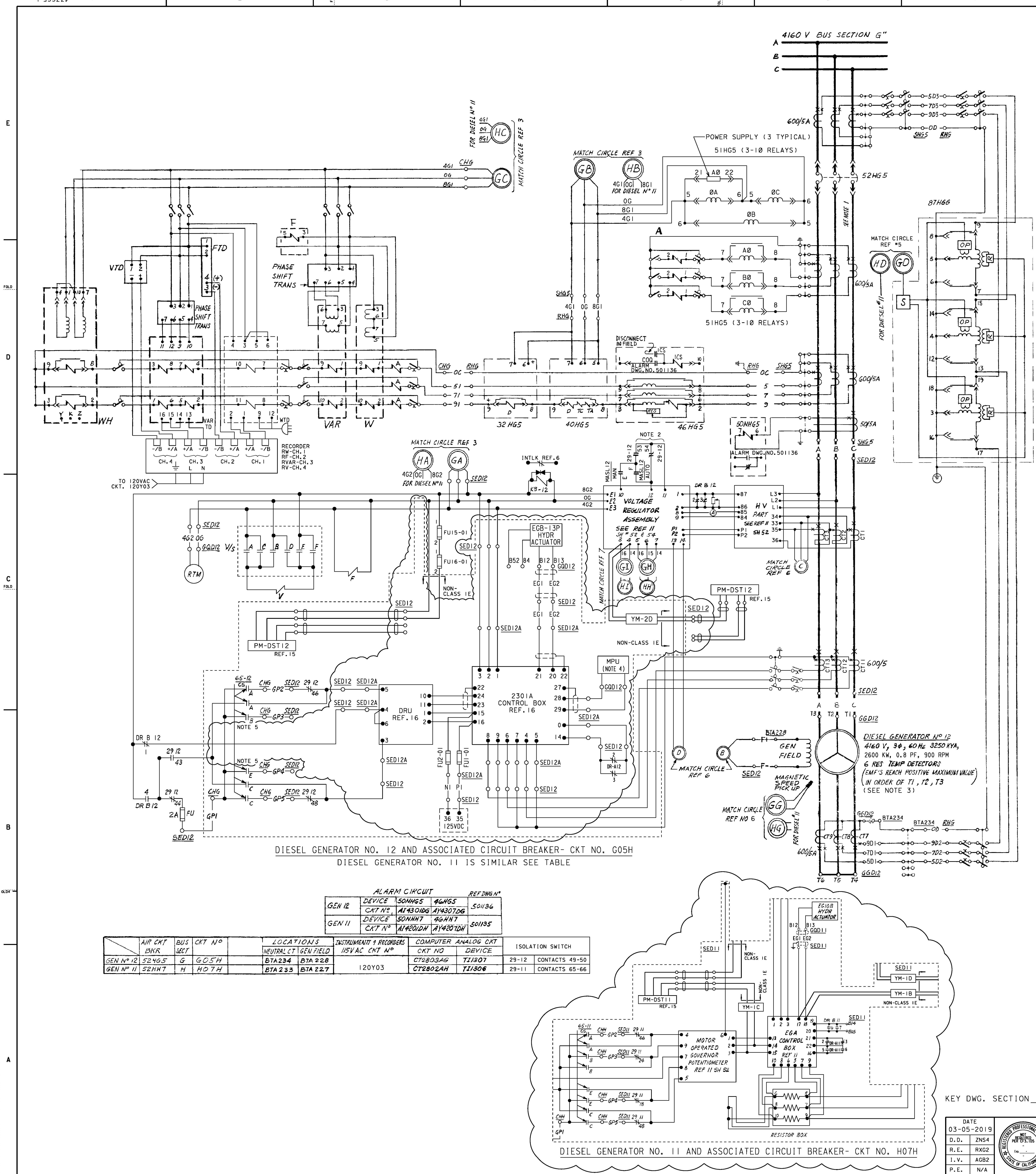


TABLE OF DEVICES						
DEVICE NO	GEN 12	GEN 11	FUNCTION	RATING	MFR	TYPE
A	A	A	AMMETER @ CONTROL BOARD	---	---	---
A	A	A	@ SW GR CELL	---	---	---
W	W	W	WATTMETER	---	---	---
VAR	VAR	VAR	VAR METER	---	---	---
WTD	WTD	WTD	WATT TRANSDUCER	---	SCIENTIFIC	XL31K5A2
DR A 12	DR A 11	DR A 11	DROOP RELAY A	---	---	---
VAR 12	VAR 12	VAR 12	VAR TRANSDUCER	---	---	---
VTD	VTD	VTD	VOLT TRANSDUCER	---	---	---
R W	R W	R W	RECORDING WATTS	---	YOKOGAWA	DX1004N
R F	R F	R F	RECORDING FREQ	---	YOKOGAWA	DX1004N
R VAR	R VAR	R VAR	RECORDING VAR	---	YOKOGAWA	DX1004N
R V	R V	R V	RECORDING VOLT METER	---	YOKOGAWA	DX1004N
WH	WH	WH	WATT HOUR METER	---	---	---
F	F	F	FREQUENCY METER	---	---	---
DR B 12	DR B 11	DR B 11	DROOP RELAY B	---	---	---
32HG5	32HH7	32HH7	DIRECTIONAL POWER RELAY	---	---	---
40HG5	40HH7	40HH7	LOSS OF FIELD RELAY	---	---	---
46HG5	46HH7	46HH7	UNIT NEGATIVE SEQUENCE RELAY	---	---	---
50HHG5	50HHH7	50HHH7	500 AMP CURRENT SENSOR RELAY	---	---	---
51HG5	51HH7	51HH7	DIESEL GENERATOR O/C RELAYS	---	---	---
52HG5	52HH7	52HH7	AIR CIRCUIT BREAKER	---	---	---
87HG6	87HHG	87HHG	DIESEL GEN DIFF O/C RELAY	---	---	---
K3-12	K3-11	K3-11	FIELD FLASH CUTOUT RELAY	---	POTTER	PR11AY-110
FTD	FTD	FTD	FREQ TRANSDUCER	---	---	---
RTM	RTM	RTM	RUNNING TIME METER	---	---	---
V	V	V	VOLTMETER	---	---	---
F	F	F	FREQ METER	---	---	---
MASL12	MASL11	MASL11	MANUAL AUTO SW FOR VOLTAGE REG	---	---	---
29-12	29-11	29-11	DIESEL CONTROL ISOLATING SW	---	---	---
YM-1B	YM-1C	YM-1C	DG EGA OUTPUT VOLTS SIGNAL ISOLATOR	---	MOORE	UB
YM-1C	YM-1D	YM-1D	DG EGA MOP INPUT SIGNAL ISOLATOR	---	MOORE	UB
YM-2D	YM-1D	YM-1D	DG GEN VOLTS ADJ MOP SIGNAL ISOLATOR	---	MOORE	UB

DG START TIMING DATA ACQUISITION SYSTEM (DAS)				
GEN 12	DAS (PANEL)	POWER SOURCE	HMI	REF.
GEN 12	PM-DST11	1YDG11	DST-MNTR	---
GEN 12	PM-DST12	1YDG12	DST-MNTR	---

CONTACTS				
CONTACTS	OFF	PHASE	PHASE	REMARKS
A	X	A	B-C	THIS DWG
B	X	B	C-A	THIS DWG
C	X	C	A-B	THIS DWG
D	X	D	E	SPARE
E	X	E	F	SPARE
F	X	F	G	SPARE

GOVERNOR CONTROL SWITCH 65-12				
CONTACTS	LOWER	OFF	RAISE	REMARKS
A	X	X	X	THIS DWG
B	X	X	X	THIS DWG
C	X	X	X	THIS DWG
D	X	X	X	THIS DWG
E	X	X	X	THIS DWG
F	X	X	X	THIS DWG

- NOTES:
- BUS DIFF CT AND POTENTIAL TRANS ARE NOT SHOWN SEE REF NO. 3 & 4.
 - FOR EDG11 CONTACT ON ISOLATION SW 29-11 IS 65 & 66.
 - NAMEPLATE VALUES DEPICTED ON THIS DRAWING, REFER TO CALC 015-DC (SAP# 9*37760) FOR RATED VALUES.
 - MPU MOUNTED ON ENGINE SKID
 - NOT USED

- EQUIPMENT LOCATION
- BTA228 DIESEL GEN 12 DG FIELD TERM. BOX
 - GD12 DIESEL GENERATOR 12 CONTROL PANEL
 - SHG5 SWGR 4KV BUS G CUB 5
 - RHG RELAY BOARD ENG SAFEGUARD BUS G
 - SED12 DIESEL GENERATOR NO. 12 EXCITER CUBICLE
 - SED12A DIESEL GEN 12 GOVERNOR CONTROL PANEL
 - GGD12 DIESEL GEN 12 MAIN LEAD TERM BOX
 - BTA234 DIESEL GEN 12 NEUT CT TERM BOX
 - CHG CONTROL BOARD ENG SAFEGUARD BUS G
 - PM-DST11-DG11 START TIMING DATA ACQUISITION (DAS) PANEL.
 - PM-DST12-DG12 START TIMING DATA ACQUISITION (DAS) PANEL.
 - 1YDG11-STATIC INVERTER
 - 1YDG12-STATIC INVERTER
 - DST-MNTR-DG11, 12, 13 DIESEL START DATA ACQUISITION SYSTEM, HMI

- REFERENCES
- DESCRIPTION OF ELECT. SCHEMATIC DIAG. SYMBOLS & CIRCUIT DESIGNATIONS DWG NO 050003
 - SINGLE LINE METER AND RELAY DIAG. 4160 V SYSTEM BUS SECTIONS F, G & H 437533
 - SCHMATIC DIAG. POTENTIAL AND SYNCHRONIZING 4160 V SYSTEM 437614
 - 4160 V BUS DIFFERENTIAL SHEET #2 437617
 - 4KV DIESEL GEN AND ASSOCIATED CIRCUIT BREAKERS SW 2 437666
 - CONTROL SW 1 437579
 - SW 2 437580
 - AND ASSOCIATED CIRCUIT BREAKERS SW 3 (DIESEL 13) 437676
 - ANNUNCIATOR DIGITAL INPUTS SW 15, 16 50135, 36
 - DIESEL GENERATOR MFR DWGS REC 663082
 - SINGLE LINE METER & RELAY DIAG INSTR A.C. SYSTEM SW 2 DWG NO 437549
 - LIST OF EQUIPMENT LOCATION CODES DWG NO 101900
 - P.D.S. CONTROL CIRCUITS SCHEMATIC DIAGRAM REC DWG 6009838-69
 - VENDOR DWG 663082-362 THRU -376
 - VENDOR GOVERNOR CONTROL SCHEMATICS 663082-407, 408, 411

NUCLEAR SAFETY RELATED

UNIT 1

DATE		REVISION DESCRIPTION		DWG SCALES	
03-05-2019	ZNS4	Revised Per DDN-2#1792	DFC-3*2887	1/4" = 1'-0"	1/8" = 1'-0"
D.D.	ZNS4			1/2" = 1'-0"	3/16" = 1'-0"
R.E.	RKG2			3/8" = 1'-0"	1/4" = 1'-0"
I.V.	AGB2			5/16" = 1'-0"	3/32" = 1'-0"
P.E.	N/A			3/4" = 1'-0"	1/2" = 1'-0"



ELECTRICAL
4KV DIESEL GENERATORS AND
ASSOCIATED CIRCUIT BREAKERS
DIABLO CANYON POWER PLANT
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

DWG NO	1	0	36
SHEET	1	0	36
PAGE	1	0	36
REV			

RASTER=437665-1-0.dgn
CEN 437665-1-0.dgn
CND 03052019 03-05-2019

437665 1