

DEVICE #		DEVICE NO.	P.G.#	R.E.	FUNCTION	RATING OR RANGE	MFR	TYPE	CAT & REF. NO.	REMARKS
APR	APR11	APR12			LOW START AIR PRESSURE ALARM RELAY	120V DC	W	ARD	ARD4405R	
APR	APR21	APR22			LOW START AIR PRESSURE ALARM SWITCH No.1	UE	J6	ARD	MD272	
APR	APR31	APR32			LOW START AIR PRESSURE ALARM SWITCH No.2	UE	J6	ARD	MD272	
ATR	ATR11	ATR12			AIR TEMPERATURE ALARM RELAY No.1	120V DC	W	ARD	ARD4405R	
ATR	ATR21	ATR22			AIR TEMPERATURE ALARM RELAY No.2	120V DC	W	ARD	ARD4405R	
ATS	ATS1	TS141	TS142		AIR TEMPERATURE SWITCH No.1	ASHCROFT		ARD	T4-24-110	
ATS	TS141	TS142			AIR TEMPERATURE SWITCH No.2	UE	C11	ARD	MODEL 102	
CKVR	CKVR1	CKVR2			CRANK CASE VACUUM SWITCH	DWYER	1900	ARD	1950-1	
CKVR	CKVR11	CKVR12			CRANK CASE VACUUM ALARM RELAY	120V DC	W	ARD	ARD4405R	
HLODR	HLODR1	HLODR2			HIGH LUBE OIL PRESS DIFF SWITCH	SOR		ARD	ITRB	
HLODR	HLODR11	HLODR12			HIGH LUBE OIL PRESS ALARM RELAY	120V DC	W	ARD	ARD4405R	
HLOTR	HLOTR1	HLOTR2			HIGH LUBE OIL TEMPERATURE ALARM RELAY	120V DC	W	ARD	ARD4405R	
HFOLS	LS201	LS205			HIGH FUEL OIL LEVEL SWITCH	MERCOID 6		ARD	3014-4826	
HFOLR	HFOLR1	HFOLR2			HIGH FUEL OIL LEVEL ALARM RELAY	120V DC	W	ARD	ARD4405R	
JWTR	JWTR1	JWTR2			JACKET WATER TEMP TRIP RELAY	125V DC	W	ARD	6068029A09	SEE NOTE 3
JWLR	JWLR1	JWLR2			JACKET WATER LEVEL ALARM RELAY	120V DC	W	ARD	ARD4405R	
JWLS	LS222	LS229			JACKET WATER LEVEL SWITCH	VIKING HL-2B		ARD	MODEL 156	
JWPS3	PS206	PS227			JACKET WATER PRESSURE SWITCH	UE	J6	ARD	MODEL E100	
JW1, 2	TS94, 95	TS101, 102			JACKET WATER TEMPERATURE SWITCH	UE		ARD	MODEL E100	
LLOTR-1, 2	LLOTR-11	LLOTR-12			LOW TEMP TIME DELAY RELAY	125V DC	AGASTAT	ETR	ETRI403N	1-30 MIN TIME RANGE
JWPR1, 1-A	JWPR1-11	JWPR1-12			JACKET WATER PRESSURE ALARM No.1	—	—	—	—	17
JWPR2, 2-A	JWPR2-11	JWPR2-12			JACKET WATER PRESSURE ALARM No.2	—	—	—	—	17
JWTR1	JWTR11	JWTR12			JACKET WATER TEMP ALARM RELAY	120V DC	W	ARD	ARD4405R	
LF LR	LF LR11	LF LR12			LOW FUEL LEVEL ALARM RELAY	120V DC	W	ARD	ARD4405R	
LLOTR	LLOTR-11	LLOTR-12			LOW LUBE OIL TEMP ALARM RELAY	120V DC	W	ARD	ARD4405R	
LF LS	LS200	LS204			LOW FUEL LEVEL SWITCH	MERCOID CO.	3014-4826	ARD	3014-4826	
OPT1	OPT-11	OPT-12			OIL PRESSURE TIMER No.1	—	—	—	—	17
OPT2	OPT-21	OPT-22			OIL PRESSURE TIMER No.2	—	—	—	—	17
OPS1	PS204	PS213			OIL PRESSURE SWITCH No.1	UE	J6	ARD	MODEL 156	
OPS2	PS204	PS214			OIL PRESSURE SWITCH No.2	UE	J6	ARD	MODEL 156	
OPS3	PS203	PS215			OIL PRESSURE SWITCH No.3	UE	J6	ARD	MODEL 156	
OCR1	OCR-11	OCR-12			OVER CRANK TIMER No.1	—	—	—	—	17
OCR2	OCR-21	OCR-22			OVER CRANK TIMER No.2	—	—	—	—	17
OCR	OCR11	OCR12			OVER CRANK TRIP RELAY	125V DC	W	ARD	6068029A09	SEE NOTE 3
OS2	TS93	TS97			HIGH OIL TEMPERATURE SWITCH No.2	UE		ARD	MODEL E100	
OS	YS6	YS7			OVER SPEED SWITCH	MICRO SW CO.		ARD	BIT 2-280-08	
OSR	OSR11	OSR12			OVER SPEED TRIP RELAY	125V DC	W	ARD	6068029A09	SEE NOTE 3
OPR1	OPR11	OPR12			OIL PRESSURE ALARM RELAY	120V DC	W	ARD	ARD4405R	
OPR	OPR11	OPR12			OIL PRESS TRIP RELAY	125V DC	W	ARD	ARD4405R	
PLPS	PS235	PS236			PRE-LUBE PRESSURE SWITCH	UE	J6	ARD	MODEL 156	
PLT	PLT11	PLT12			PRE-LUBE TIMER RELAY	120V DC	AGASTAT	ETR	ETRI403N	2-GO Sec SET 25Sec.
PDT	PDT11	PDT12			PRESSURE DELAY TIMER	—	—	—	—	17
SDR	SDR11	SDR12			DIESEL SHUTDOWN RELAY	125V DC	ELECTRO SWITCH	W/AR	7823DD	SHOWN IN RESET POS.
	BT1HMG	BT1HGG			DIESEL GEN. DIFF. AUX. RELAY	—	—	—	—	17
LRS	29-11	29-12			DIESEL CONTROL ISOLATING SWITCH	—	—	—	—	6
ALR	ALR11	ALR12			LOCAL ANNUNCIATOR ALARM RELAY	125V DC	—	—	—	MODEL 50-X
CS	43-11	43-12			DIESEL ENGINE SELECTOR SW.	—	—	—	—	17
TAPS	PS37				TURBO CHARGER AIR RCVR PRESS SW.	125V DC	ASHCROFT	B4	B4-248-VFS-400 PS1	REF. 057761 SH. 9
LOR	LOR11	LOR12			DIESEL GEN. ANNUN. TIMER	125V DC	AGASTAT	ETR	ETRI403N	1-30 MIN TIME RANGE
	TR11	TR12			LOW LUBE OIL LEVEL RELAY	—	—	—	—	437674
	PS1202	PS1212			TACHOMETER RELAY	—	—	—	—	437579
	PS1201	PS1211			AIR RCVR "A" LOW AIR PRESS ALARM SWITCH	—	—	—	—	CONTACT CLOSING AT 100RPM
	PS1201	PS1211			AIR RCVR "B" LOW AIR PRESS ALARM SWITCH	—	—	—	—	
	PS318				TURBO CHARGER AIR RCVR PRESS SW	125V DC	ASHCROFT	B4	B4-248-VFS-400 PS1	REF. 057761 SH. 9
	TS192	TS196			LOW LUBE OIL TEMP IND SW.	120V AC	MODRE, INDUS	SFA	SFA-TPRG/2PRG/1FLD	DWG. 437674

NOTES

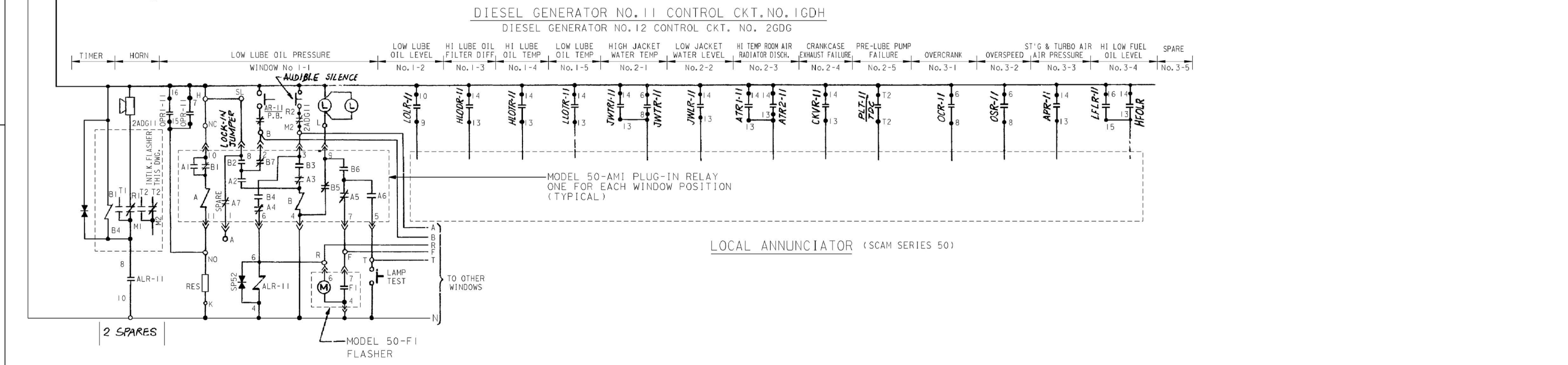
- NUMBERS SHOWN INDICATE CONTACT LOCATION
- NUMBERS INDICATE LOCATION AND NUMBER OF CONTACT USED.
- ADJUST MINIMUM PICK-UP TO 70V IN FIELD

EQUIPMENT LOCATION

- GDCC118 - DIESEL GEN#11 EMERG. STOP RELAY
- RHH - ENG. SFGRD RELAY BOARD BUS H
- CCH CONTROL BD. ENG. SFGRD BUS H
- GD11 DIESEL GEN#11 CONTROL PANEL
- SED11 DIESEL GEN#11 EMERG. STOP RELAY

REFERENCE DWGS.

SEE DRAWING NO. 437579
501143



(MASL) REF. #14-SH. #33 & 47

MAN	AUTO	POSITION	REMARKS
A	X		THIS DWG. 73
B	X		53
C	X		72
D	X		62
E	X		REF. 5
F	X		5
G	X		ALM(501143)
H	X		REF. 17 92

(VSR)

POSITION	REMARKS
LOWER	THIS DWG. 63
A	61
B	64
C	63
D	61
E	63
F	62

(VSL)

POSITION	REMARKS
LOWER	SEE NOTE 17
A	THIS DWG. 55
B	
C	57
D	54
E	58
F	57
G	56
H	75
I	77
J	74
K	73
L	77
	76

VOLTAGE REG SWITCH 90-11/CS & 90-12/CS AT LOC. CHH & CHG
SPRING RETURN TO OFF

MAIN ANN ALARM CIRCUIT TABLE

DEVICE	MASL 11&12	JWTR	OPR	OCR	OSR	APR	CKVR	LF LR, HFOLR	ATR1, JWLR	LLOTR, LOR	OPR1, HLOTR	PLT, HLODR	SDR
DSL#11	AY4200DH	AT4201DH	AY4210DH	AY4201DH	AY4211DH	AP4201DH	AY4206DH	AL4201DH	AY4205DH	AY4204DH	AY4229DH		
DSL#12	AY4300DG	AT4301DG	AY4310DG	AY4301DG	AY4311DG	AP4901DG	AY4306DG	AL4301DG	AY4305DG	AY4304DG	AY4329DG		

KEY DWG. SECTION 2

DATE	REVISION DESCRIPTION	DWG SCALE
11-10-2011	REVISED PER DFT-7*1296	050049
D.D. AJFJ		
R.E. RXG2		
I.V.		
P.E. R2M5		

UNIT 1
ELECTRICAL SCHEMATIC DIAGRAM
4KV DIESEL GENERATOR CONTROL NO. 11 & 12

DRAWING SHEET PAGE REV
437580 1 0 39

PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

RASTER=ER96709.DGN
DGN=ER96709.DGN
CAD User=AJFJ Date: 11-10-2011