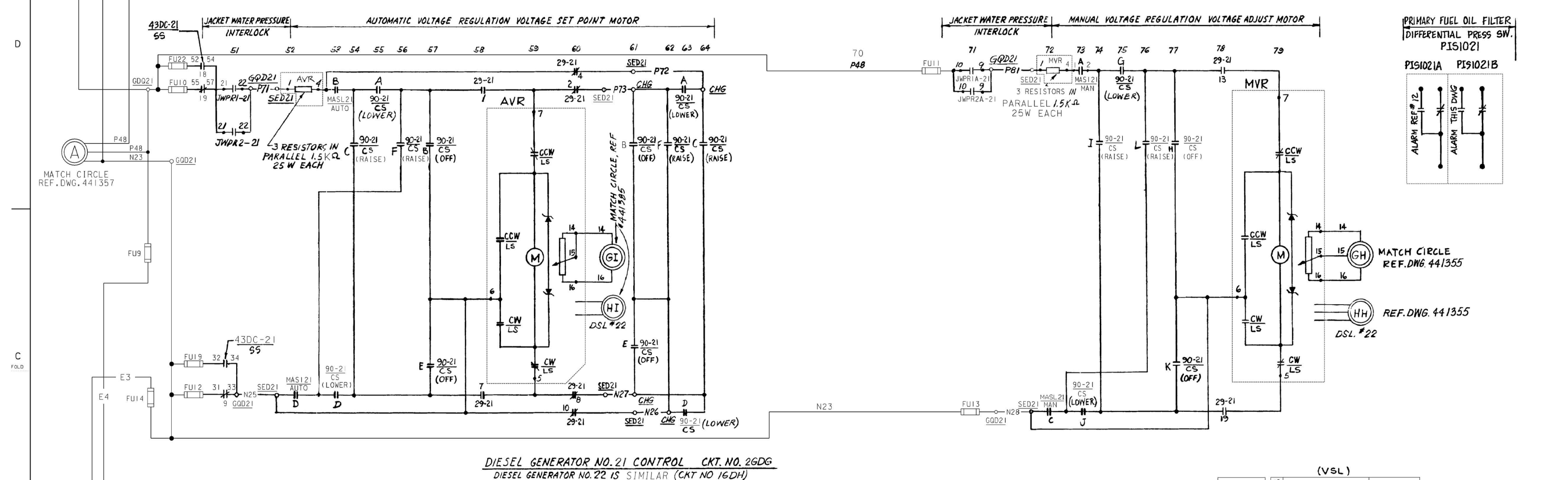
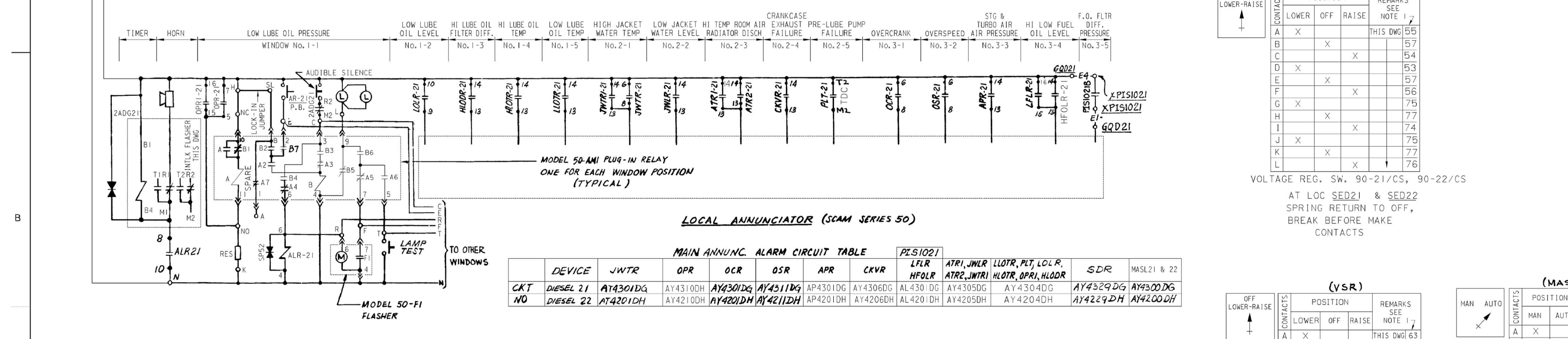


DEV. NO.		DEV. NO. PG&E	FUNCTION	RATING OR RANGE	MFR	TYPE	CAT & REF. DWG. NO.	REMARKS
DEV. NO. MFR	DEV. NO. PG&E DIESEL#21	DEV. NO. PG&E DIESEL#22						
APR	APR#21	APR#22	LOW START AIR PRESSURE ALARM RELAY	120VDC	W	ARD	ARD440SR	
APSI	PS21#2	PS20#1	LOW START AIR PRESS ALARM SW No.1		UE	J6	MD272	
AP52	PS21#1	PS20#2	LOW START AIR PRESS ALARM SW No.2		UE	J6	MD272	
ATRI	ATRI-21	ATRI-22	AIR TEMPERATURE ALARM RELAY No.1	120VDC	W	ARD	ARD440SR	
ATR2	ATRI-21	ATR2-22	AIR TEMPERATURE ALARM RELAY No.2	120VDC	W	ARD	ARD440SR	
ATSI	TS14#2	TS14#1	AIR TEMPERATURE SWITCH No.1		ASHCROFT		14-24-T10	
AT52	TS14#5	TS14#4	AIR TEMPERATURE SWITCH No.2		UE	C11	MODEL 102	
CKVS	PS33#2	PS33#1	CRANK CASE VACUUM SWITCH		19600	MODEL 9550-V1		
CKVR	CKVR#21	CKVR#22	CRANK CASE VACUUM ALARM RELAY	120VDC	W	ARD	ARD440SR	
HLODS	PS21#6	PS20#8	HIGH LUBE OIL PRESS DIFF SWITCH		SOR	W	17RB	
HLODR	HLODR#21	HLODR#22	HIGH LUBE OIL PRESS ALARM RELAY	120VDC	W	ARD	ARD440SR	
HLOTR	HLOTR#21	HLOTR#22	HIGH LUBE OIL TEMP ALARM RELAY	120VDC	W	ARD	ARD440SR	
HFOLS	LS20#5	LS20#1	HIGH FUEL OIL LEVEL SWITCH		MERC010 CO	301X-4821		
HFOLR	HFOLR#21	HFOLR#22	HIGH FUEL OIL LEVEL ALARM RELAY	120VDC	W	ARD	ARD440SR	
JWTR	JWTR#21	JWTR#22	JACKET WATER TEMP TRIP RELAY	125VDC	W	AR	6068029A09 1457CB0A02	SEE NOTE 3
JWLR	JWLR#21	JWLR#22	JACKET WATER LEVEL ALARM RELAY	120VDC	W	ARD	ARD440SR	
JWLS	LS22#9	LS22#2	JACKET WATER LEVEL SWITCH		VIKINGHL-2B			
JWPS3	PS22#7	PS20#6	JACKET WATER PRESSURE SWITCH		UE	J6	MODEL 156	
JWT1	TS10#2	TS9#5	JACKET WATER TEMPERATURE SWITCH		UE		MODEL E100	
JWT2	TS10#1	TS9#4						
JWTR1-1A	JWTR1-21	JWTR1-22	JACKET WATER PRESSURE RELAY No 1	—	—	—	7	
JWTR2-2A	JWTR2-21	JWTR2-22	JACKET WATER PRESSURE RELAY No 2	—	—	—	7	
JWTR1	JWTR1-21	JWTR1-22	JACKET WATER TEMP ALARM RELAY	120VDC	W	ARD	ARD440SR	
LFLR	LFLR-21	LFLR-22	LOW FUEL LEVEL ALARM RELAY	130VDC	W	ARD	ARD440SR	
LLOTR	LLOTR-21	LLOTR-22	LOW LUBE OIL TEMP ALARM RELAY	120VDC	W	ARD	ARD440SR	
LFLS	LS20#4	LS20#0	LOW FUEL LEVEL SWITCH		MERC010 CO	301W-3820		
OPT1	OPT1-21	OPT1-22	OIL PRESSURE TIMER No 1	—	—	—	7	
OPT2	OPT2-21	OPT2-22	OIL PRESSURE TIMER No 2	—	—	—	7	
OPS1	PS23#3	PS20#4	OIL PRESSURE SWITCH No1		UE	J6	MODEL 156	
OPS2	PS21#4	PS20#5	OIL PRESSURE SWITCH No2		UE	J6	MODEL 156	
OPS3	PS21#5	PS20#3	OIL PRESSURE SWITCH No3		UE	J6	MODEL 156	
OC11	OCR1-21	OCR1-22	OVER CRANK TIMER No 1				7	
OC12	OCR2-21	OCR2-22	OVER CRANK TIMER No 2				7	
OCR	OCR#21	OCR#22	OVER CRANK TRIP RELAY	125VDC	W	AR	6068029A09	SEE NOTE 3
OTS2	TS97	TS93	HIGH OIL TEMPERATURE SWITCH No 2		UE		MODEL E100	
OS	YS7	YS6	OVER SPEED SWITCH		MIOR SW CO		DTF-2280-1H	
OSR	OSR#21	OSR#22	OVER SPEED TRIP RELAY	125VDC	W	ARD	6068029A09	SEE NOTE 3
OPR1	OPR1-21	OPR1-22	OIL PRESSURE ALARM RELAY	120VDC	W	ARD	ARD440SR	
OPR2	OPR2-21	OPR2-22	OIL PRESS TRIP RELAY	125VDC	W	ARD	6068029A09	SEE NOTE 3
PLPS	PS22#5	PS25#3	PRE-LUBE PRESSURE SWITCH	0.4-1.1MPa	C.S		604C1-7011	
PLT	PLT#21	PLT#22	PRE-LUBE TEMPERATURE RELAY	125VDC	AGASTAT	ETR	ETRI4030	20 to 60 sec SET 25 sec
POT	POT#21	POT#22	PRESSURE DELAY TIMER					
SDR	SDR#21	SDR#22	DIESEL SHUTDOWN RELAY	125VDC	ELECTRIC SWITCH	OR/ER	782300	7 SHOWN IN RESET POS
STYMSG	STYMSG#21	STYMSG#22	DIESEL GEN DIFF ALARM RELAY				6	
LRS	29-21	29-22	DIESEL CONTROL ISOLATING SWITCH				3	
ALR	ALR#21	ALR#22	LOCAL ANNUNCIATOR ALARM RELAY	125VDC			MODEL 50-XI	
CS	43-21	43-22	DIESEL ENGINE SELECTOR SW				7	
	PS10#1	PS10#2	PRIMARY FUEL OIL FILTER DIFF PRESS SW AL SW				102038	
LQLR	LQLR#21	LQLR#22	LOW LUBE OIL LEVEL RELAY				441369	
	24D021	24D022	DIESEL GEN ANNUN. TIMER	125VDC	AGASTAT	ETR	ETRI403N	1 to 30 MIN SET AT 90 SEC
TPR	TPR#21	TPR#22	TACHOMETER RELAY				DWG. 441357	CLOSE @ DIESEL <100RPM
	PS121#2	PS121#1	AIR RCVR "A" LOW PRESSURE ALARM SW				DWG. 108021	
	PS121#1	PS120#1	AIR RCVR "B" LOW PRESSURE ALARM SW				DWG. 108021	
	LLOTR-21	LLOTR-22	LOW TEMP TIME DELAY RELAY	125VDC	AGASTAT	ETR	ETRI403N	1 to 30 MIN SET AT 5 MIN
TAPS	PS31#8	PS31#7	TURBO CHARGER AIR RCVR PRESS SW	125VDC	ASH-CROFT	B4	84-21-2X PS-400PS1	REF. 055761, SH. 9
	TTIS96	TTIS92	LOW LUBE OIL TEMP IND SW.	130VDC	MOORE INDUST	SPA		DWG. 441359

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

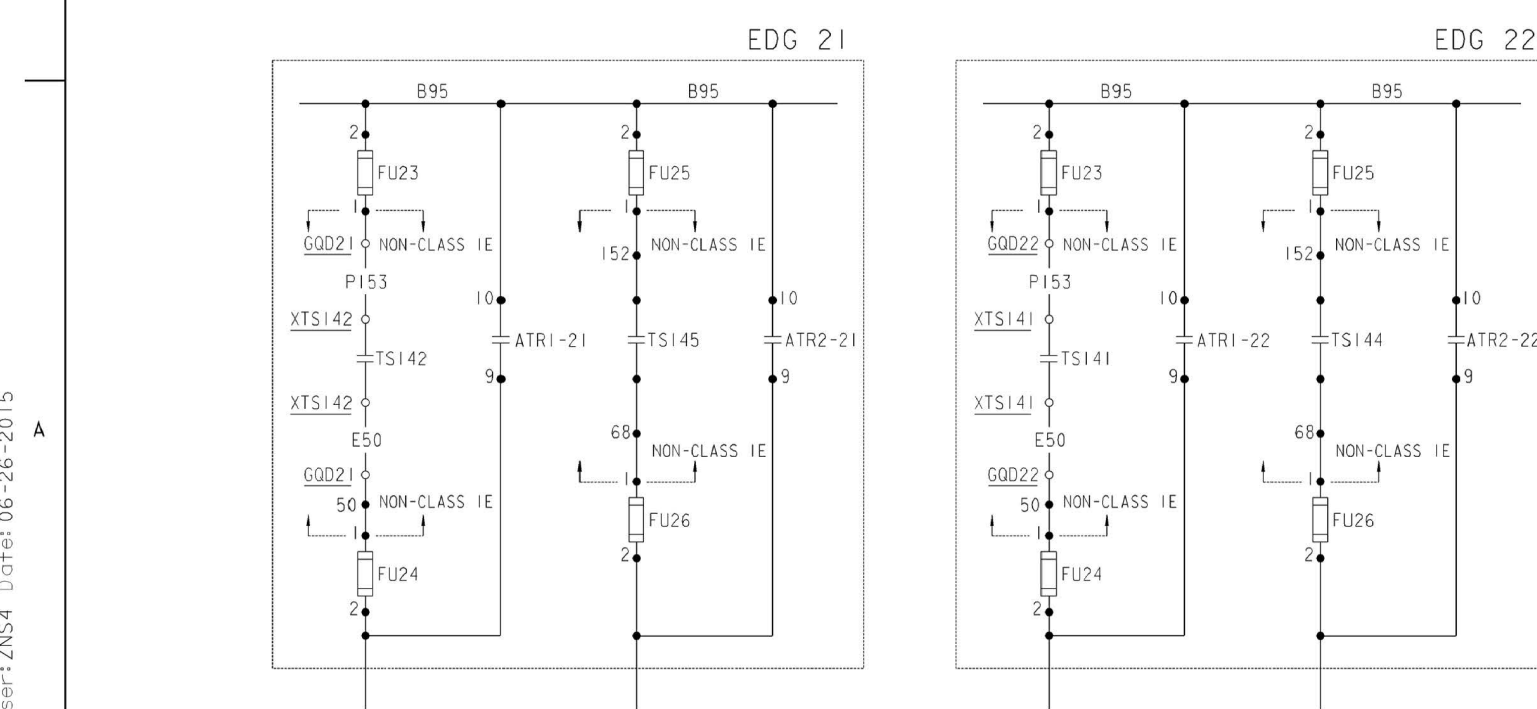


DIESEL GENERATOR NO.21 CONTROL CKT.NO.2GDG
DIESEL GENERATOR NO.22 IS SIMILAR (CKT NO 1GDH)



LOCAL ANNUNCIATOR (SCAM SERIES 50)

MAIN ANNUNC. ALARM CIRCUIT TABLE										PIS1021		
DEVICE		JWTR	QPR	OCR	QSR	APR	CKVR	FLFR HLFR	ATRL,JWTR ATRR,JWTR	LLQTR,PLT,LOL,R HLQTR,OPRI,HLQDR	SDR	MASL21 & 22
CT	DIESEL 21	AT4301DG	AY4310DH	AY4301DG	AY4311DG	AP4301DG	AY4306DG	AL430 DG	AY4305DG	AY4304DG	AY4529DG	AY4300DH
NO	DIESEL 22	AT4201DH	AY4210DH	AY4201DH	AY4202DH	AP4201DH	AY4206DH	AL420 DG	AY4205DH	AY4204DH	AY4229DH	AY4200DH



DETAIL A

(VSL)				
CONTACTS	POSITION			REMARKS SEE NOTE 17
	LOWER	OFF	RAISE	
A	X			THIS DWG 55
B		X		57
C			X	54
D	X			53
E		X		57
F			X	56
G	X			75
H		X		77
I			X	74
J	X			75
K		X		77
L			X	76

VOLTAGE REG. SW. 90-21/CS, 90-22/CS
AT LOC SED21 & SED22
SPRING RETURN TO OFF,
BREAK BEFORE MAKE
CONTACTS

(ysr)

VOLTAGE REG SWITCH 90-21/CS,
90-22/CS AT LOCATIONS CHG
CHH SPRING RETURN TO OFF,
BREAK BEFORE MAKE CONTACTS

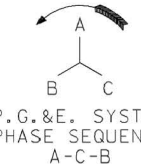
(MASL) REF #4-5H#33 & 4:

	CONTACT'S		POSITION		REMARKS SEE NOTE 1	
	MAN	AUTO	MAN	AUTO		
MAN AUTO 	A	X			THIS DWG 73	
	B		X			53
	C	X				72
	D		X		↓	52
	E	X				REF 5
	F		X			REF 5
	G	X				ALARM AV43000G
	H		X			REF 17 92

H		X	REF 17	92
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MANUAL AUTO SWITCH FOR
VOLTAGE REG. MASL21,
MASL22 AT LOCATIONS SED21,
SED22

NUCLEAR SAFETY RELATED



KEY DWG. SECTION 2

UNIT 2

ELECTRICAL
SCHEMATIC DIAGRAM
SEL GENERATOR CONTROL
NO. 21 & 22

DWG SCALE:			
BILL OF MATL:			
SUPSDS:		663082-33	
SUPSD BY:			
DRAWING	SHEET	PAGE	REV
441358	1	0	4