PANEL SCHEDULE 800 PANEL PA — 3 PHASE 4 WIRE — VOLTAGE LL: 208 VOLTAGE LG: 120

DC Devices: BREAKER — Device Family: BOLT-ON — Mounting: SURFACE — Enclosure: NEMA 1
Comments: 200A MAIN BREAKER — Bus Rating: 225 — Available Fault Duty: 5284 A 3 Phase

Ckt No	Description/ Location	Load Type	Criteria Ea	Qty	Dem	Total VA	Remarks	Device Amps	P	H	Device Amps	P	Remarks	Total VA	Load Type	Criteria Ea	Qty	Dem	Description/ Location	Ckt No
1	LIGHTING AND EF-1	LTG		2		1800		20	1	A	20	1		540	LTG		2		LIGHTING	2
3	LIGHTING	LTG		2		540		20	1	B	20	1		540	LTG		2		LIGHTING	4
5	LIGHTING	LTG		2		540		20	1	C	20	1		540	RECP		3		RECEPTACLE	6
7	RECEPTACLE	RECP		3		540		20	1	A	20	1		1300	HTR		5		WATER HEATER	8
9	RECEPTACLE	RECP		3		1000		20	1	B	20	1		500	RECP		3		RECEPTACLE (TEL)	10
11	SAFETY CIRCUIT POWER	CT		1		500		20	1	C	20	1		1600	MOT		9		PROD. RET. PUMP 1&2	12
13	FIRE ALARM	GEN		1		500		20	1	A	20	1		1000	CT		1		PCP CONTROL POWER	14
15	CATHODIC RECTIFIER	RECT		1		1200		20	1	B	20	1		1000	CT		1		PCP CONTROL POWER	16
17	PRO. RET. TNK LEAK	AL		1		500		20	1	C	20	1		1000	CT		1		PCP CONTROL POWER	18
19	SPARE	SPR		4		1000		20	1	A	20	1		1000	SPR		1		SPARE	20
21	AHU-1 (FAN & 7.2KW)	MOT		9		2771		40	3	B	20	1		1000	SPR		4		SPARE	22
23	AHU-1	MOT		9		2771	W/CKT 21			C	20	1		1000	SPR		4		SPARE	24
25	AHU-1	MOT		9		2771	W/CKT 21			A	40	3		4200	MOT		10		A/C COND	26
27	SPARE	SPR		4		1000		20	1	B			W/CKT 26	4200	MOT		10		A/C COND	28
29	GEN. BATTERY CHARGER	CT		1		1000		20	1	C			W/CKT 26	4200	MOT		10		A/C COND	30
31	LUBE OIL HEATER	HTR		5		1600		20	1	A	20	1		1240	LTS	310 4	2		EXTERIOR LTS	32
33	WATER REM PUMP	MOT		9		1000		20	1	B	20	1		1550	LTS	310 5	2		EXTERIOR LTS	34
35	ATG	CT		1		500		20	1	C	20	1		930	LTS	310 3	2		EXTERIOR LTS	36
37	SPARE	SPR		4		1000		20	1	A		1			SPC				SPACE	38
39	SPARE	SPR		4		1000		20	1	B		1			SPC				SPACE	40
41	SPARE	SPR		4		1000		20	1	C		1			SPC				SPACE	42

ENDUSE LOADS:	PHASE A VA	18341.	PHASE B VA	16801.	PHASE C VA 16081.
TOTAL LOADS:	CONNECTED KVA	51.7	DEMAND KVA	46.9	DESIGN KVA 52.9
	CONNECTED FLA	143.4	DEMAND FLA	130.1	DESIGN FLA 146.9

THIS PANEL IS LOCATED IN THE CONTROL ROOM.

CONDUIT AND CABLE SCHEDULE (POWER)

CKT NO	CIRCUIT FROM	CIRCUIT TO	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS PER CONDUIT QTY	CONDUCTORS SIZE	GND	TYPE	NOTES
R1	EXIST ELECT MANHOLE	T-1 PRIMARY	2	4"	3	1 (15kV)		XLP	1 SPARE 4" CONDUIT
R2	T-1 SECONDARY	MDS	4	4"	4	500		THWN	1 SPARE 4" CONDUIT
R3	MDS & PANEL PA	GENERATOR	2 1	4" 2"	4	250	2	THWN TW	POWER CONDUCTORS SEE NOTE #1
R4	MDS	MCC	2	4"	3	500	1/0	THWN	
R5	MCC	T-2 PRIMARY	1	1 1/2"	3	1/0	6	THWN	
R6	T-2 SECONDARY	PANEL PA	1	3"	4	250	2	THWN	
R7	MCC	FTP-1	1	1 1/2"	3 11	10 12	10	TW TW	MOTOR HEATER & CONTROLS
R8	MCC	FP-1	1	2"	3 4	3/0 12	4	THWN TW	MOTOR HEATER & HIGH TEMP. SW
R9	MCC	FP-2	1	2"	3 4	3/0 12	4	THWN TW	MOTOR HEATER & HIGH TEMP. SW
R10	MCC	FP-3	1	2"	3 4	3/0 12	4	THWN TW	MOTOR HEATER & HIGH TEMP. SW
R11	MCC	FP-4	1	2"	3 4	3/0 12	4	THWN TW	MOTOR HEATER & HIGH TEMP. SW
R12	MCC	FP-5	1	2"	3 4	3/0 12	4	THWN TW	MOTOR HEATER & HIGH TEMP. SW
R13	MCC	HA SWITCH & LIGHT	1	3/4"	4	12		TW	CONTROLS
R14	PANEL PA	A/C UNIT	1	3/4"	3	8	10	TW	
R15	PANEL PA	AHU	1	3/4"	3	8	10	TW	
R16	MCC	PUMP ROOM EXHAUST FAN	1	3/4"	3	12	12	TW	CONDUIT SIZE AND CONTROL CONDUCTORS AS REQUIRED

NOTES:
1. PROVIDE CONDUCTORS FOR SITE SPECIFIC GENERATOR AUXILLARY EQUIPMENT AS REQUIRED. (E.G., BATTERY CHARGER, LUBE OIL HEATER, GLOW PLUGS, JACKET WATER HEATER, ETC.)

CONDUIT AND CABLE SCHEDULE (CONTROL)

CKT NO	CIRCUIT FROM	CIRCUIT TO	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS PER CONDUIT QTY	CONDUCTORS SIZE	GND	TYPE	NOTES
C1	PCP	J1	1	1"	20	14		TW	
C2	J1	FS-1	1	1/2"	4	14		TW	
C3	J1	J2	1	1"	16	14		TW	
C4	J2	FS-2	1	1/2"	4	14		TW	
C5	J2	J3	1	1"	12	14		TW	
C6	J3	FS-3	1	1/2"	4	14		TW	
C7	J3	J4	1	1/2"	8	14		TW	
C8	J4	FS-4	1	1/2"	4	14		TW	
C9	J4	J5	1	1/2"	4	14		TW	
C10	J5	FS-5	1	1/2"	4	14		TW	
C11	PCP	J6	1	1"	2	2/C 14		TC	SHIELDED CABLE
C12	J6	PIT-1 & PIT-2	1	1/2"	1	2/C 14		TC	SHIELDED CABLE
C13	MCC	ESO-1,2,3,4, & 5	1	1/2"	2	14		TW	
C14	PCP	J7	1	1"	2	2/C 14		TC	SHIELDED CABLE
C15	J7	DPT-1 & DPT-2	1	1/2"	1	2/C 14		TC	SHIELDED CABLE
C16	PCP	J8	1	1"	2	2/C 14		TC	SHIELDED CABLE
C17	J8	J9	1	1/2"	1	2/C 14		TC	SHIELDED CABLE
C18	NOT USED								
C19	NOT USED		1						
C20	J8	DPT-3	1	1/2"	1	2/C 14		TC	SHIELDED CABLE
C21	J9	DPT-4	1	1/2"	1	2/C 14		TC	SHIELDED CABLE
C22	NOT USED								
C23	PCP	J10	1	1/2"	8	14		TW	
C24	J10	BPCV-1	1	1/2"	2	14		TW	
C25	J10	J11	1	1/2"	6	14		TW	
C26	J11	D/FV-1 A & B	1	1/2"	2	14		TW	
C27	J11	PCV	1	1/2"	2	14		TW	
C28	PCP	MCC	1	2"	40	14		TW	CONTROL, INCLUDES SPARES

$$ - THINK VALUE ENGINEERING - $$

REVISIONS

SYMBOL	DESCRIPTIONS	DATE	APPROVED

ROBERT AND COMPANY
96 POPLAR ST., N.W.
ATLANTA, GA 30335

US ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NE

AIR FORCE C.E. SUPPORT AGENCY
139 BARNES DRIVE, SUITE #1
TYNDALL AFB, FL 32403-5319

DESIGNED BY: KEA
DRAWN BY: KEA
CHECKED BY: KKT
REVIEWED BY: RJB
SUBMITTED BY:
CHIEF, ELEC SECTION

AIR FORCE STANDARDS
PRESSURIZED HYDRANT FUELING SYSTEM
TYPE III

SCHEDULE SHEET

PLOT SCALE RATIO: 1:12
DESIGN FILE: SD18E601.DGN
DATE: REV. #1 NOV. 1998
SPEC. NO.: 78-24-28-88
DRAWING CODE: AW 78-24-28
SHEET REFERENCE NUMBER: E6.1

COMPUTER AIDED DESIGN & DRAFTING