

three inches = one foot
one and one half inches = one foot
one inch = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

PANEL: BP1													
LOCATION: NEW BOILER PLANT MAIN...						VOLTAGE: 120/208 Wye				MAIN BREAKER: 150 A			
FED FROM: XFMR A						PHASES: 3				BUS RATING: 225 A			
ENCLOSURE: NEMA 1						WIRES: 4				POLES: 42			
MOUNTING: SURFACE						A.I.C. RATING: 22KAIC							
Notes:													
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT			
1	PNL BPU VIA UPS	100 A	2	6448...	1560...			2	40 A AC-1	2			
3					6448...	1560...				4			
5	UNIT HEATER FANS	20 A	1			112 VA	1560...	2	30 A AC-3	6			
7	DED. RECEPTACLE - SCR-1	20 A	1	180 VA	1560...					8			
9	DED. RECEPTACLE - CHEM. TREATMENT	20 A	1		360 VA	0 VA		1	20 A CONDENSATE SURGE TANK VALVES	10			
11	DEAERATOR CONTROL PANEL	20 A	1			0 VA	0 VA	1	20 A B-1 & B-2 FEEDWATER VALVES	12			
13	DA VALVES	20 A	1	0 VA	0 VA			1	20 A SPARE	14			
15	PROPANE PILOT	20 A	1		180 VA	0 VA		1	20 A SPARE	16			
17	RECEPTACLES - CTRL ROOM NON-UPS	20 A	1			360 VA	0 VA	1	20 A SPARE	18			
19	BOTTOM BLOWDOWN CTRL PWR	20 A	1	0 VA	0 VA			1	20 A SPARE	20			
21	CONTINUOUS BLOWDOWN CTRL PWR	20 A	1		0 VA	0 VA		1	20 A SPARE	22			
23	DOOR CONTROL AND LOCKS	20 A	1			720 VA	0 VA	1	20 A SPARE	24			
25	SPARE	20 A	1	0 VA	0 VA			1	20 A SPARE	26			
27	SPARE	20 A	1		0 VA	0 VA		1	20 A SPARE	28			
29	SPARE	20 A	1			0 VA	0 VA	1	20 A SPARE	30			
31	SPARE	20 A	1	0 VA	0 VA			1	20 A SPARE	32			
33	SPARE	20 A	1		0 VA	0 VA		1	20 A SPARE	34			
35	SPARE	20 A	1			0 VA	0 VA	1	20 A SPARE	36			
37	SPARE	20 A	1	0 VA	0 VA					38			
39	SPARE	20 A	1		0 VA	0 VA		3	30 A SPD	40			
41	SPARE	20 A	1			0 VA	0 VA			42			
Total Load:				9748 VA	8548 VA	2752 VA							
Total Amps:				89 A	79 A	23 A							
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
HVAC		6240 VA		100.00%		6240 VA							
Other		12896 VA		100.00%		12896 VA		Total Conn. Load: 21048 VA					
Power		720 VA		100.00%		720 VA		Total Est. Demand: 21048 VA					
Receptacle		1192 VA		100.00%		1192 VA		Total Conn.: 58 A					
								Total Est. Demand: 58 A					
Notes:													

PANEL: BP2

LOCATION: NEW BOILER PLANT MAIN...

FED FROM: XFMR B

ENCLOSURE: NEMA 1

MOUNTING: SURFACE

VOLTAGE: 120/208 Wye

PHASES: 3

WIRES: 4

A.I.C. RATING: TBD

MAIN BREAKER: 150 A

BUS RATING: 225 A

POLES: 42

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	RECEPTACLES - CATWALK	20 A	1	1620...	1560...			2	40 A AC-2	2
3	RECEPTACLES - DEARATOR PLATFORMS	20 A	1		720 VA	1560...				4
5	DED. RECEPTACLE - WSF-1	20 A	1			360 VA	1560...	2	30 A AC-4	6
7	RECEPTACLES - EXTERIOR S & W	20 A	1	1080...	1560...					8
9	RECEPTACLES - PLUG STRIP - STORAGE RM	20 A	2		0 VA	2250...		2	30 A WATER HEATER WH-1	10
11						0 VA	2250...			12
13	RECEPTACLES - EXTERIOR N & E	20 A	1	720 VA	696 VA			1	20 A EF-1	14
15	RECEPTACLES - GENERAL, E WALL	20 A	1		1080...	0 VA		1	20 A B-3 FEEDER WATER VALVE	16
17	REFRIGERATOR	20 A	1			180 VA	540 VA	1	20 A RECEPTACLES - KITCHEN/LAB	18
19	RECEPTACLES - GENERAL AND RESTROOM	20 A	1	720 VA	540 VA			1	20 A RECEPTACLES - LAB/BREAK ROOM	20
21	RECEPTACLES - SHOP AREA	20 A	1		720 VA	900 VA		1	20 A RECEPTACLES - W & S WALLS	22
23	RECEPTACLES - W & N WALLS	20 A	1			900 VA	540 VA	1	20 A RECEPTACLES - CTRL ROOM	24
25	RECEPTACLES - TUNNEL	20 A	1	720 VA	0 VA			2	30 A SPARE	26
27	RECEPTACLE - EWC - CORRIDOR	20 A	1		180 VA	0 VA		1	20 A SPARE	28
29	CP-1 - SHOP AREA	20 A	1			180 VA	0 VA	1	20 A SPARE	30
31	SPARE	20 A	1	0 VA	0 VA			1	20 A SPARE	32
33	SPARE	20 A	1		0 VA	0 VA		1	20 A SPARE	34
35	SPARE	20 A	1			0 VA	0 VA	1	20 A SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					38
39	SPARE	20 A	1		0 VA	0 VA		3	30 A SPD	40
41	SPARE	20 A	1			0 VA	0 VA			42
Total Load:				9216 VA	7410 VA	6510 VA				
Total Amps:				78 A	63 A	54 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	6240 VA	100.00%	6240 VA	
Other	5196 VA	100.00%	5196 VA	Total Conn. Load: 23136 VA
Power	180 VA	100.00%	180 VA	Total Est. Demand: 22376 VA
Receptacle	11520 VA	93.40%	10760 VA	Total Conn.: 64 A
				Total Est. Demand: 62 A

Notes:

PANEL: BPU

LOCATION: LAB / BREAK ROOM 105

FED FROM:

ENCLOSURE: NEMA 1

MOUNTING: Surface

VOLTAGE: 120/208-1PH

PHASES: 1

WIRES: 3

A.I.C. RATING: 22KAIC

MAIN BREAKER: 90

BUS RATING: 100 A

POLES: 42

Notes:

FED FROM UPS IN RACK.

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
1	MASTER CP	20 A	1	1200 VA	0 VA	1	20 A	BPA & BPB POWER METERS	2	
3	CP-1	20 A	1		1200 VA	180 VA	1	20 A	PACS CONTROLLER	4
5	CP-2	20 A	1	1200 VA	0 VA		1	20 A	SPARE	6
7	CP-3	20 A	1		1200 VA	0 VA	1	20 A	SPARE	8
9	DEDICATED RECP. - BOILER WORKSTATION	20 A	1	180 VA	0 VA		1	20 A	SPARE	10
11	DEDICATED RECP. - BOILER WORKSTATION	20 A	1		360 VA	0 VA	1	20 A	SPARE	12
13	DEDICATED RECEP. - BAS	20 A	1	180 VA	0 VA		1	20 A	SPARE	14
15	DEDICATED RECEP. - BAS	20 A	1		180 VA	0 VA	1	20 A	SPARE	16
17	RECEP. - CTRL ROOM	20 A	1	180 VA	0 VA		1	20 A	SPARE	18
19	DEDICATED RECEP. - PRINTERS	20 A	1		180 VA	0 VA	1	20 A	SPARE	20
21	DEDICATED RECEP. - FA WORKSTATION	20 A	1	180 VA	0 VA		1	20 A	SPARE	22
23	FACP	20 A	1		180 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	26
27	VOICE EVAC	20 A	1		180 VA	0 VA	1	20 A	SPARE	28
29	GENERATOR ANNUNCIATION HMI	20 A	1	180 VA	0 VA		1	20 A	SPARE	30
31	DEDICATED RECEP. - LEAK DETECTION	20 A	1		180 VA	0 VA	1	20 A	SPARE	32
33	DATA RACK - CKT 1	20 A	1	0 VA	0 VA		1	20 A	SPARE	34
35	DATA RACK - CKT 2	20 A	1		0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	42
Total Load:				3300 VA	3840 VA					
Total Amps:				32 A	36 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	4800 VA	100.00%	4800 VA	
Receptacle	2340 VA	100.00%	2340 VA	Total Conn. Load: 7140 VA
				Total Est. Demand: 7140 VA
				Total Conn.: 34 A
				Total Est. Demand: 34 A

Notes:

△ REV 1 - CP-1 AND SFCCP	5/31/2018	CONSULTANTS:	ENGINEER-OF-RECORD CHAD J. FRAULICK FL P.E. NO. 73811	ARCHITECT/ENGINEERS: AKEA INC. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 553-4437 COA: FL #26693 AKEA Project No. 083-14	Drawing Title PANEL SCHEDULES	Project Title REPLACE BOILERS - FCA D, ENERGY AT THE MALCOM RANDALL VAMC	Project Number 573-14-600
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