SWITCHGEAR SCHEDULE

MSG

BUS NUMBER: 10 — AMPERE RATING: 1200 — VOLTAGE (L-L): 480 — PHASE: 3
SERVED FROM: UT1 — MAIN TYPE: MAIN BREAKER — VOLTAGE (L-N): 277 — WIRE: 4
MINIMUM KAIC: 65
REMARKS: UL LISTED FOR SERVICE ENTRANCE RATED

MARK	LOAD DESCRIPTION	CODE	LOAD KVA	CIRCUIT BREAKER FRAME OR FUSED SWITCH SIZE	CIRCUIT BREAKER TRIP OR FUSE SIZE	DEVICE TYPE	FEEDER # SETS	FEEDER PHASE/NEUT SIZE	FEEDER GND SIZE	FEEDER MIN CND SIZE	REMARKS
1	PANEL HB3	M		800	225	CIRCUIT BRKR	1	3 4/0	4	2	
2	TN1	M		800	125	CIRCUIT BRKR	1	3 1	6	1-1/2	
3	MOTOR CONTROL CENTER	M		800	125	CIRCUIT BRKR	1	3 1	6	1-1/2	
4	PANEL HB1/HB2	M		800	400	CIRCUIT BRKR	1	3 500	3	3	
5	BOILER VIA TN2	M		800	225	CIRCUIT BRKR	1	3 4/0	4	2	
6	SPACE ONLY			800							
7	SPACE ONLY			800							
8	SPACE ONLY			800							

NEC ART. 220 LOAD CATEGORY	TOTAL CONNECTED LOAD (KVA)	X NEC ART. 220 FEEDER SIZING FACTOR	= NEC ART. 220 FEEDER SIZING LOAD (KVA)
A – HOSPITAL LIGHTING	0.00	0.00	0.00
B – HOTEL/MOTEL LIGHTING	0.00	0.00	0.00
C – SPACE COOLING*	180.04	1.00	180.04
D – OTHER HVAC LOADS	0.00	0.00	0.00
H – SPACE HEATING*	23.94	1.25	29.92
K – KITCHEN APPLIANCES	9.00	0.90	8.10
L – GENERAL LIGHTING	16.45	1.25	20.56
M – MISC. CONTINUOUS	394.15	1.25	492.68
N – MISC. NONCONTINUOUS	22.91	1.00	22.91
R – RECEPTACLES	14.04	0.85	12.02
W – WAREHOUSE LIGHTING	0.00	0.00	0.00
LARGEST MOTOR**	0.00	1.25	0.00
	636.59		736.32

* NON-CONCIDENTAL LOADS. LARGEST LOAD INCLUDED IN TOTAL. ** LARGEST MOTOR LOAD INCLUDED IN CATEGORIZED LOADS.

BALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD (AMPS): 885.6 A.
+ RESERVED FUTURE CAPACITY: + 300.0 A.
TOTAL NEC ART. 220 FEEDER SIZING LOAD: 1185.6 A.
MIN. NEC ART. 220 OVERCURRENT PROTECTION: 1200 A.

TRANSFORMER SCHEDULE

TRANSFORMER DESIGNATION	SERVED FROM	KVA RATING	PHASE	PRIMARY VOLTAGE (L-L)	PRIMARY VOLTAGE (L-N)	SECONDARY VOLTAGE (L-L)	SECONDARY VOLTAGE (L-N)	GND. ELECTRODE CONDUCTOR SIZE	GND. ELECTRODE CONDUCTOR CONDUIT	CONNECTED LOAD KVA	CONNECTED LOAD SEC. SIDE AMPS	DEMAND LOAD KVA	DEMAND LOAD SEC. SIDE AMPS	REMARKS
TN1	MSG	75	3	480		208	120	2	1	135.2	375.3	156.5	434.4	
TN2	MSG	75	3	480		208	120	2	1	0.0	0.0	0.0	0.0	
TN3	HB3	15	3	480		208	120	8	3/4	0.0	0.0	0.0	0.0	
UT1	N/A					480	277			631.5	759.6	731.7	880.2	

100% CONSTRUCTION DOCUMENTS

REVISION NO.	REVISION DESCRIPTION	By	Date

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Columbia, SC 29209

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HSH PROJECT # 11015

Recommended Approvals:

1. MEDICAL DIRECTOR	6. OPERATIONS SERVICE LINE MANAGER
2. ASSOCIATE DIRECTOR	7. INFECTION CONTROL MANAGER
3. CHIEF OF STAFF	8. SAFETY MANAGER
4. ASSOC. DIRECTOR	9. GENERAL ENGINEER
5. SERVICE LINE MGRS.	10. COTR

Drawing Title: SCHEDULES
Project Title: REPLACE BOILER PLANT/ COGEN/CHP
Date: APRIL 30, 2012
Project Number: 544-11-101
★BUILDING IS FULLY SPRINKLERED★
Drawn | Building Number: 21 | AutoCAD File Name
Checked | Reviewed | Const. Contract No.
DRAWING No.: E605
Veterans Affairs