

APPENDIX D

Electrical MCC Resizing:

MOTOR CONTROL CENTER SCHEDULE

DESIGNATION MAIN BUS CAPACITY VOLTAGE ARRANGEMENT	CIRCUIT NUMBER	SERVICE	HORSE POWER (HP)	STARTER SIZE (NEMA)	PROTECTIVE DEVICE				FEEDER				DEVICES IN COVER				LOAD			
					TYPE	SWITCH RATING (AMP)	POLES	FUSE SIZE (AMP)	FEEDER DESIGNATION	POWER	GROUND	CONTROL	CONDUIT SIZE	S/P R.B. W/ PILOT LT.	HOA SEL SW. W/ PILOT LT.	RESET P.B.	INTERLOCK WITH UNIT	ELEMENTARY DIAGRAM	CONNECTED LOAD (A)	CONNECTED LOAD (KVA)
MCC-	1	Ahu-4	5		FU/SW	50	3	15	F1	12	12						7.60	6.31104	80%	5.0488
100 A BUS	2	Ahu-5	15		FU/SW	60	3	45	F2	6	10						9.50	7.8888	80%	6.311
60 A MSW	3	Ahu-6	5		FU/SW	50	3	15	F3	12	12						7.60	6.31104	80%	5.0488
60 A FUSE	4	Ahu-7	7.5		FU/SW	50	3	15	F4	12	12						7.80	6.47712	80%	5.1817
480/277 V	5	Ahu-8	7.5		FU/SW	50	3	15	F5	12	12						7.80	6.47712	80%	5.1817
3 PHASE, 4W	6	Ahu-9	10		FU/SW	50	3	15	F6	12	12						7.60	6.31104	80%	5.0488
W/GROUND BUS	7	Ahu-10	7.5		FU/SW	50	3	6	F7	12	12						4.00	3.3216	80%	2.6573
12 POLE	8	RF-4	1.5		FU/SW	50	3	6	F8	12	12						3.00	2.4912	80%	1.993
	9	RF-5	5		FU/SW	50	3	15	F9	12	12						7.60	6.31104	80%	5.0488
	10	RF-8	1.5		FU/SW	50	3	6	F10	12	12						3.00	2.4912	80%	1.993
	11	RF-9	3		FU/SW	50	3	10	F11	12	12						4.80	3.98592	80%	3.1887
FLOOR MOUNTED	12	RF-10	1.5		FU/SW	50	3	6	F12	12	12						3.00	2.4912	80%	1.993

TOTAL CONNECTED LOAD: 48.69 KVA

COINCIDENTAL DEMAND: 0.8

DEMAND LOAD: 38.96 KVA

SPARE CAPACITY AT 1.25 48.69 KVA

POWER FACTOR: 0.8 38.96 KW

TOTAL CONNECTED AMPERAGE AT 480 V 34.66 A

WITH STARTING AMPERAGE OF LARGER MOTOR 39.66 A

FEEDER SIZE: 3#4+1#8GND-1-1/4" C