

9/18/2024 10:42:21 AM E-710 Autodesk Docs://US_D3754500_FED_Aerojet Rocketdyne/D3754500_CMDN_OSD_Mixer-Building-1_ELEC.rvt

D

C

B

A

Branch Panel: L1				Location: UTILITY ROOM 104				Volts: 208/120 Wye				A.I.C. Rating: 10K			
Supply From: TL1				Phases: 3				Mains Type: MCB				Mains Rating: 150 A			
Mounting: Surface				Wires: 4				MCB Rating: 150 A							
Enclosure: Type 1															
NOTES:															
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT		
1	CONDENSATE PUMP...	20 A	1	200 VA	1581 VA					2	30 A	SSCU-1	2		
3	CH-1 HEAT TRACE	20 A	1			0 VA	1581 VA			--	--		4		
5	OVERHEAD COILING...	20 A	1					1500 VA	750 VA	2	15 A	SSAU-2	6		
7	WS-1	20 A	1	11600 VA	750 VA					--	--		8		
9	FH-1	20 A	1			0 VA	156 VA			1	20 A	LTG - RM. 100, 106	10		
11	LTG - DRIVE THRU	20 A	1					837 VA	558 VA	1	20 A	LTG - MIXER ROOM	12		
13	LTG	20 A	1	416 VA	0 VA					1	20 A	REC - NORTH DOOR...	14		
15	REC - PLC CABINET...	20 A	1			500 VA	500 VA			1	20 A	REC - PLC CABINET...	16		
17	REC - PLC CABINET...	20 A	1					500 VA	500 VA	1	20 A	REC - PLC CABINET...	18		
19	REC - BATTERY...	20 A	1	360 VA	180 VA					1	20 A	REC - FREEZER 106	20		
21	REC - SMALL OVEN...	20 A	1			180 VA	720 VA			1	20 A	REC - RM. 100, 106	22		
23									540 VA	1	20 A	REC - RM 102	24		
25	REC - RM 103	20 A	1	540 VA	180 VA					1	20 A	REC - DED. RM 103	26		
27	REC - RM 104	20 A	1			720 VA	294 VA			1	20 A	LTG - EXTERIOR	28		
29	FACP	20 A	1					500 VA	0 VA	1	20 A	Spare	30		
31	ACS PANEL	20 A	1	180 VA	0 VA					1	20 A	Spare	32		
33	CH-1 CONTROLS	20 A	1			0 VA	0 VA			1	20 A	Spare	34		
35	LTG - MIXER ROOM	20 A	1					744 VA	0 VA	1	20 A	Spare	36		
37					0 VA					3	60 A	SPD	38		
39							0 VA			--	--		40		
41	Spare	20 A	1					0 VA	0 VA	--	--		42		
Total Load:				15966 VA		4643 VA		6429 VA							
Total Amps:				135 A		39 A		56 A							
Legend:															
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals					
HVAC				16261 VA		100.00%		16261 VA							
Lighting				843 VA		100.00%		843 VA		Total Conn. Load: 27038 VA					
LTG				2153 VA		100.00%		2153 VA		Total Est. Demand: 27038 VA					
MOT				1500 VA		100.00%		1500 VA		Total Conn. Current: 75 A					
REC				6300 VA		100.00%		6300 VA		Total Est. Demand Current: 75 A					

Distribution Panel: DP1														
Location: UTILITY ROOM 104				VOLTAGE: 480V,3P,3W,60HZ				INTERRUPTING RATING (KA SYMMETRICAL): 65 A						
Supply From: SB1				MAINS TYPE / LOCATION: MLO				MINIMUM BUS RATING: 1200 A						
Mounting: HOUSEKEEPING PAD								NEUTRAL BUS RATING: 100.00%						
Enclosure: 1														
CKT NO.	DESCRIPTIONS						POLES	FRAME (AMPS)	TRIP (AMPS)	LOAD (VOLT-AMPS)	CIRCUIT SIZE			
1	SPD						1	100 A	60 A	0 VA	--			
2	CH-1						3	500 A	450 A	222804 VA				
3	EB-1						3	200 A	175 A	105000 VA				
4	EF-2						3	100 A	15 A	1500 VA				
5	CP-1						3	100 A	20 A	5800 VA				
6	CP-2						3	100 A	20 A	5800 VA				
7	CPNL1 AUTOMATION EQUIPMENT PLC						3	250 A	250 A	153801 VA				
8	VAC-1						3	100 A	30 A	11600 VA				
9	SSCU-2						3	100 A	15 A	9976 VA				
10	CT-1 FREEZE PROTECTION						3	100 A	30 A	16000 VA				
11	CT-1						3	100 A	30 A	16000 VA				
12	TL1						3	100 A	70 A	27038 VA				
13	EB-2						3	200 A	125 A	68000 VA				
14	MDU-1						3	400 A	350 A	182000 VA				
15	EF-1						3	20 A	20 A	3161 VA				
16	Space						3	--	--	--	--			
17	Space						3	--	--	--	--			
18	PHWP-1						3	20 A	20 A	5800 VA				
19	EUH-1						3	20 A	20 A	7500 VA				
20														
LOAD CLASSIFICATION							TOTAL LOAD SUMMARY							
CONNECTED LOAD							DEMAND FACTOR		ESTIMATED DEMAND		LOAD (KVA)		CURRENT (AMPS)	
HVAC							646702 VA		100.00%		646702 VA			
LTG							2153 VA		100.00%		2153 VA			
Lighting							843 VA		100.00%		843 VA			
MOT							185801 VA		100.00%		185801 VA			
REC							6300 VA		100.00%		6300 VA			
											CONNECTED LOAD:		841.8 kVA	
											ESTIMATED DEMAND LOAD:		841.8 kVA	
											CALCULATED DEMAND FACTOR:		100%	
											APPLIED GROWTH FACTOR:			
													CONNECTED CURRENT:	
													1012.5 A	
													ESTIMATED DEMAND:	
													1012.5 A	
													ESTIMATED GROWTH:	
													0 A	