

													Connected Loads				Operating Loads							
Row	ID	Description	P&ID	Voltage	BK HP	KVA	HP	MODE	D	LF	PF	EFF	KW	KVAR	KVA	A	KW	KVAR	KVA	A	BUS ID			
1	P-101A	Bottoms Sump Pump	D-101-10001A	460	7		10	C	100%	70.00%	76.20%	92.20%	8.09	6.88	10.62	13.33	5.66	4.81	7.43	9.33	MCC-001A			
2	P-101B	Bottoms Sump Pump	D-101-10001A	460	7		10	S	0%	70.00%	76.20%	92.20%	8.09	6.88	10.62	13.33	0.00	0.00	0.00	0.00	MCC-001B			
3	P-102A	Bottoms End Pump	D-101-10001A	460	13		20	C	100%	65.00%	79.22%	92.75%	16.09	12.39	20.31	25.49	10.46	8.05	13.20	16.57	MCC-001A			
4	P-102B	Bottoms End Pump	D-101-10001A	460	13		20	S	0%	65.00%	76.22%	92.75%	16.09	13.66	21.11	26.49	0.00	0.00	0.00	0.00	MCC-001B			
5	P-103A	Recycle Pump	D-101-10001B	460	77		100	C	100%	77.00%	86.40%	95.78%	77.89	45.39	90.15	113.14	59.97	34.95	69.41	87.12	MCC-001A			
6	P-103B	Recycle Pump	D-101-10001B	460	77		100	S	0%	77.00%	86.40%	95.78%	77.89	45.39	90.15	113.14	0.00	0.00	0.00	0.00	MCC-001B			
7	P-104	Sump Pump	D-101-10002C	460	33		50	I	10%	66.00%	85.22%	93.08%	40.07	24.60	47.02	59.02	2.64	1.62	3.10	3.90	MCC-001A			
8	P-105	Sump Bottoms Pump	D-101-10003A	460	130		200	I	15%	65.00%	88.10%	96.76%	154.20	82.81	175.02	219.67	15.03	8.07	17.06	21.42	MCC-001B			
9	HTR-001	Heater 001	D-102-10001A	480		50		I	20%	100%	85%	100%	42.50	26.34	50	60.14	8.50	5.27	10.00	12.03	MCC-001A			
10	HTR-002	Heater 002	D-102-10001B	480		75		I	25%	100%	85%	100%	63.75	39.51	75	90.21	15.94	9.88	18.75	22.55	MCC-001A			
11	LP-001	Lighting Panel		480		50		I	50%	100%	85%	100%	42.50	26.34	50	60.14	21.25	13.17	25.00	30.07	MCC-001B			
12	LP-002	Lighting Panel		480		50		I	50%	100%	85%	100%	42.50	26.34	50	60.14	21.25	13.17	25.00	30.07	MCC-001A			
13	UPS-001	Inst UPS		480		45		C	3%	100%	85%	100%	38.25	23.71	45	54.13	1.15	0.71	1.35	1.62	PNL-001			
14	DC-001	DC Power		480		30		C	3%	100%	85%	100%	25.50	15.80	30	36.08	0.77	0.47	0.90	1.08	PNL-002			
15	FDR-001A	Control Building Power		480		400		I	40%	100%	85%	100%	340.00	210.71	400	481.13	136.00	84.29	160.00	192.45	MCC-001A			
16	FDR-001B	Control Building Power		480		400		I	40%	100%	85%	100%	340.00	210.71	400	481.13	136.00	84.29	160.00	192.45	MCC-001B			
17	LP-003	Lighting Panel		480		20		I	100%	100%	85%	100%	17.00	10.54	20	24.06	17.00	10.54	20.00	24.06	PNL-001			
18	LP-004	Lighting Panel		480		20		I	100%	100%	85%	100%	17.00	10.54	20	24.06	17.00	10.54	20.00	24.06	PNL-002			
19	HVAC-001	HVAC Unit #1		480		100		I	75%	100%	85%	100%	85.00	52.68	100	120.28	63.75	39.51	75.00	90.21	PNL-001			
20	HVAC-002	HVAC Unit #2		480		100		I	75%	100%	85%	100%	85.00	52.68	100	120.28	63.75	39.51	75.00	90.21	PNL-002			
													1537.40	943.88	1804.99	2195.38	596.12	368.84	701.21	849.19				

													Connected Loads				Operating Loads							
Row	ID	Description	P&ID	Voltage	BK HP	KVA	HP	MODE	D	LF	PF	EFF	KW	KVAR	KVA	A	KW	KVAR	KVA	A	BUS ID			
1	P-101A	Bottoms Sump Pump	D-101-10001A	460	7		10	C	100%	70.00%	76.20%	92.20%	8.09	6.88	10.62	13.33	5.66	4.81	7.43	9.33	MCC-001A			
3	P-102A	Bottoms End Pump	D-101-10001A	460	13		20	C	100%	65.00%	79.22%	92.75%	16.09	12.39	20.31	25.49	10.46	8.05	13.20	16.57	MCC-001A			
5	P-103A	Recycle Pump	D-101-10001B	460	77		100	C	100%	77.00%	86.40%	95.78%	77.89	45.39	90.15	113.14	59.97	34.95	69.41	87.12	MCC-001A			
7	P-104	Sump Pump	D-101-10002C	460	33		50	I	10%	66.00%	85.22%	93.08%	40.07	24.60	47.02	59.02	2.64	1.62	3.10	3.90	MCC-001A			
9	HTR-001	Heater 001	D-102-10001A	480		50		I	20%	100%	85%	100%	42.50	26.34	50	60.14	8.50	5.27	10.00	12.03	MCC-001A			
10	HTR-002	Heater 002	D-102-10001B	480		75		I	25%	100%	85%	100%	63.75	39.51	75	90.21	15.94	9.88	18.75	22.55	MCC-001A			
12	LP-002	Lighting Panel		480		50		I	50%	100%	85%	100%	42.50	26.34	50	60.14	21.25	13.17	25.00	30.07	MCC-001A			
15	FDR-001A	Control Building Power		480		400		I	40%	100%	85%	100%	340.00	210.71	400	481.13	136.00	84.29	160.00	192.45	MCC-001A			
													630.89	392.16	743.09	902.59	260.43	162.04	306.90	374.01				

													Connected Loads				Operating Loads							
Row	ID	Description	P&ID	Voltage	BK HP	KVA	HP	MODE	D	LF	PF	EFF	KW	KVAR	KVA	A	KW	KVAR	KVA	A	BUS ID			
2	P-101B	Bottoms Sump Pump	D-101-10001A	460	7		10	S	0%	70.00%	76.20%	92.20%	7.46	6.34	9.79	12.29	0.00	0.00	0.00	0.00	MCC-001B			
4	P-102B	Bottoms End Pump	D-101-10001A	460	13		20	S	0%	65.00%	76.22%	92.75%	14.92	12.67	19.57	24.57	0.00	0.00	0.00	0.00	MCC-001B			
6	P-103B	Recycle Pump	D-101-10001B	460	77		100	S	0%	77.00%	86.40%	95.78%	74.60	43.47	86.34	108.37	0.00	0.00	0.00	0.00	MCC-001B			
8	P-105	Sump Bottoms Pump	D-101-10003A	460	130		200	I	15%	65.00%	88.10%	96.76%	149.20	80.12	169.35	212.56	15.03	8.07	17.06	21.42	MCC-001B			
11	LP-001	Lighting Panel		480		50		I	50%	100%	85%	100%	42.50	26.34	50	60.14	21.25	13.17	25.00	30.07	MCC-001B			
16	FDR-001B	Control Building Power		480		400		I	40%	100%	85%	100%	340.00	210.71	400	481.13	136.00	84.29	160.00	192.45	MCC-001B			
													628.68	379.66	735.06	899.05	172.28	105.53	202.06	243.94				

													Connected Loads				Operating Loads					
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Row	ID	Description	P&ID	Voltage	BK HP	KVA	HP	MODE	D	LF	PF	EFF	KW	KVAR	KVA	A	KW	KVAR	KVA	A	BUS ID			
13	UPS-001	Inst UPS		480		45		C	3%	100%	85%	100%	38.25	23.71	45	54.13	1.15	0.71	1.35	1.62	PNL-001			
17	LP-003	Lighting Panel		480		20		I	100%	100%	85%	100%	17.00	10.54	20	24.06	17.00	10.54	20.00	24.06	PNL-001			
19	HVAC-001	HVAC Unit #1		480		100		I	75%	100%	85%	100%	85.00	52.68	100	120.28	63.75	39.51	75.00	90.21	PNL-001			
													140.25	86.92	165.00	198.46	81.90	50.76	96.35	115.89				

Connected Loads

Operating Loads

Row	ID	Description	P&ID	Voltage	BK HP	KVA	HP	MODE	D	LF	PF	EFF	KW	KVAR	KVA	A	KW	KVAR	KVA	A	BUS ID			
14	DC-001	DC Power		480		30		C	3%	100%	85%	100%	25.50	15.80	30	36.08	0.77	0.47	0.90	1.08	PNL-002			
18	LP-004	Lighting Panel		480		20		I	100%	100%	85%	100%	17.00	10.54	20	24.06	17.00	10.54	20.00	24.06	PNL-002			
20	HVAC-002	HVAC Unit #2		480		100		I	75%	100%	85%	100%	85.00	52.68	100	120.28	63.75	39.51	75.00	90.21	PNL-002			
													127.50	79.02	150.00	180.42	81.52	50.52	95.90	115.35				