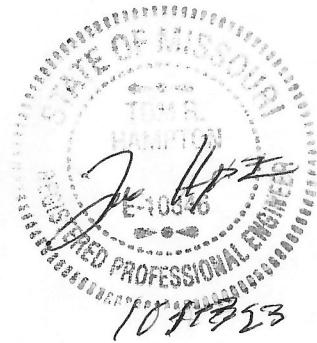


Paragon Star Building 2 FACP - Battery Calculation Report

PANEL INFORMATION

Panel Type	GWF-7075
No. of Loops	1
No. of Devices	66
Status	✓ PASS



BATTERY & CHARGER REQUIREMENT

Normal Operation	24 Hours	BAT-1270	7Ah	6.461Ah	Suggested Batt. Box
In Alarm	5 Mins	Suggested Battery	Suggested Capacity	Required Capacity	

Required Quiescent/Stand By time(In Hours)			Required In Alarm time(In Mins)		
Standby Load Current	x	Panel in Normal Operation (In hours)	In Alarm Load Current(In Amps)	x	Panel In Alarm(In Mins)
0.223		24 = 5.352 Ah	0.382		0.083(5mins) = 0.032Ah
					Total Current Load = 5.384Ah
					Multiply with derating factor = x 1.2
					Adding with spare capacity = N/A
					Total AH required = 6.461 Ah

LOOP1 DETAILS

Loops	1	39.55 mA Consumed	0.6%
Number of devices	63	0%	100%

PANEL MODULES

No. of Modules	3	565 mA Consumed	8.1%
		0%	100%

Module Name	Quantity	Quiescent/Stand By (mA)	Alarms (mA)
GWF-7075 Control Panel	1	165	310
RA1000	2	40	50

Loop Details

Loop1			
Module Name	Quantity	Quiescent/Stand By (mA)	Alarms (mA)
ASD-PL3	5	0.2	0.45
AOM-2SF	1	0.375	0.375
AMM-2F	15	0.375	0.375
MS-7	5	0.375	0.375
AOM-2RF	25	0.255	0.255

NAC Circuit 1	0	0
NAC Circuit 2	0	0

Paragon Star Building 2 NAC 1 - Battery Calculation Report

PANEL INFORMATION

Panel Type	HPF-PS6
No. of Loops	0
No. of Devices	1
Status	✔ PASS

BATTERY & CHARGER REQUIREMENT

Normal Operation	24 Hours	BAT-1250	5Ah	4.484Ah	Suggested Batt. Box
In Alarm	5 Mins	Suggested Battery	Suggested Capacity	Required Capacity	
Required Quiescent/Stand By time(In Hours)			Required In Alarm time(In Mins)		
Standby Load Current	x	Panel in Normal Operation (In hours)	In Alarm Load Current(In Amps)	x	Panel In Alarm(In Mins)
0.139		24 = 3.336 Ah	4.808		0.083(5mins) = 0.401Ah
					Total Current Load = 3.737Ah
					Multiply with derating factor = x 1.2
					Adding with spare capacity = N/A
					Total AH required = 4.484 Ah

PANEL MODULES

No. of Modules	1	4947 mA Consumed	4.1%
			0%100%

Module Name	Quantity	Quiescent/Stand By (mA)	Alarms (mA)
MAIN CIRCUIT BOARD WITH 4.7K EOLR INSTALLED	1	139	157

NAC CIRCUITS

NAC Name	Alarms (mA)	Quiescent/Stand By (mA)
NAC Circuit 1	957	0
NAC Circuit 2	1217	0
NAC Circuit 3	1343	0
NAC Circuit 4	1134	0
NAC Circuit 5	0	0

BATTERY SHARING

Battery Sharing	Alarms (mA)	Quiescent/Stand By (mA)
Battery Sharing 1	0	0
Battery Sharing 2	0	0
Battery Sharing 3	0	0

Paragon Star Building 2 NAC 2 - Battery Calculation Report

PANEL INFORMATION

Panel Type	HPF-PS6
No. of Loops	0
No. of Devices	1
Status	✓ PASS

BATTERY & CHARGER REQUIREMENT

Normal Operation	24 Hours	BAT-1250	5Ah	4.409Ah	Suggested Batt. Box
In Alarm	5 Mins	Suggested Battery	Suggested Capacity	Required Capacity	

Required Quiescent/Stand By time(In Hours)			Required In Alarm time(In Mins)		
Standby Load Current	x	Panel in Normal Operation (In hours)	In Alarm Load Current(In Amps)	x	Panel In Alarm(In Mins)
0.139		24 = 3.336 Ah	4.058		0.083(5mins) = 0.338Ah
					Total Current Load = 3.674Ah
					Multiply with derating factor = x 1.2
					Adding with spare capacity = N/A
					Total AH required = 4.409 Ah

PANEL MODULES

No. of Modules 1	4197 mA Consumed 0%100%	3.5%
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Module Name	Quantity	Quiescent/Stand By (mA)	Alarms (mA)
MAIN CIRCUIT BOARD WITH 4.7K EOLR INSTALLED	1	139	157

NAC CIRCUITS

NAC Name	Alarms (mA)	Quiescent/Stand By (mA)
NAC Circuit 1	690	0
NAC Circuit 2	1055	0
NAC Circuit 3	972	0
NAC Circuit 4	972	0
NAC Circuit 5	212	0

BATTERY SHARING

Battery Sharing	Alarms (mA)	Quiescent/Stand By (mA)
Battery Sharing 1	0	0
Battery Sharing 2	0	0
Battery Sharing 3	0	0

Paragon Star Building 2 - Voltage Drop Calculation Report

POWER SOURCE

Power Source	NAC 1	Brand	Gamewell-FCI	Model Number	HPF-PS6 CLASS B	Nominal System Voltage	20.4 VOLTS
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CIRCUIT 1

NAC Circuit1		0.957 AMPS		CLASS B	AWG	5 Devices	0.957 AMPS USED	0.88 VOLTAGE DROP	
#	Device Model	Candela	Pattern	Volume	Tone	CURRENT (AMPS)		Dist from prev device	Volts
1	PC2RL	75	Temporal	High	Electromechanical	0.143		23	20.26
2	P2RL	110	Temporal	High	Electromechanical	0.162		48	20.01
3	P2RL	185	Temporal	High	Electromechanical	0.245		56	19.78
4	P2RL	110	Temporal	High	Electromechanical	0.162		84	19.56
5	P2RL	185	Temporal	High	Electromechanical	0.245		28	19.52

CIRCUIT 2

NAC Circuit2		1.217 AMPS		CLASS B	AWG	7 Devices	1.217 AMPS USED	1.15 VOLTAGE DROP	
#	Device Model	Candela	Pattern	Volume	Tone	CURRENT (AMPS)		Dist from prev device	Volts
1	P2RL	110	Temporal	High	Electromechanical	0.162		13	20.3
2	P2RL	110	Temporal	High	Electromechanical	0.162		48	19.98
3	P2RL	185	Temporal	High	Electromechanical	0.245		56	19.66
4	P2RL	110	Temporal	High	Electromechanical	0.162		50	19.45
5	P2RL	110	Temporal	High	Electromechanical	0.162		27	19.37
6	P2RL	110	Temporal	High	Electromechanical	0.162		55	19.25
7	P2RL	110	Temporal	High	Electromechanical	0.162		1	19.25

CIRCUIT 3

NAC Circuit3		1.343 AMPS		CLASS B	AWG	9 Devices	1.343 AMPS USED	1.4 VOLTAGE DROP	
#	Device Model	Candela	Pattern	Volume	Tone	CURRENT (AMPS)		Dist from prev device	Volts
1	SRL	75				0.107		39	20.07
2	P2RL	30	Temporal	High	Electromechanical	0.074		19	19.92
3	SRL	75				0.107		16	19.8
4	P2RL	110	Temporal	High	Electromechanical	0.162		4	19.77

7	P2RL	110	Temporal	High	Electromechanical	0.162	49	19.15
8	P2RL	110	Temporal	High	Electromechanical	0.162	42	19.04
9	P2RL	185	Temporal	High	Electromechanical	0.245	27	19

CIRCUIT 4

NAC Circuit4		1.134 AMPS	CLASS B	AWG	7 Devices	1.134 AMPS USED	1.06 VOLTAGE DROP	
#	Device Model	Candela	Pattern	Volume	Tone	CURRENT (AMPS)	Dist from prev device	Volts
1	P2RL	110	Temporal	High	Electromechanical	0.162	34	20.15
2	P2RL	110	Temporal	High	Electromechanical	0.162	18	20.04
3	P2RL	110	Temporal	High	Electromechanical	0.162	58	19.74
4	P2RL	110	Temporal	High	Electromechanical	0.162	37	19.59
5	P2RL	110	Temporal	High	Electromechanical	0.162	42	19.46
6	P2RL	110	Temporal	High	Electromechanical	0.162	38	19.38
7	P2RL	110	Temporal	High	Electromechanical	0.162	37	19.34

CIRCUIT 5

NAC Circuit5		0 AMPS	CLASS B	AWG	0 Devices	0 AMPS USED	0 VOLTAGE DROP	
#	Device Model	Candela	Pattern	Volume	Tone	CURRENT (AMPS)	Dist from prev device	Volts

POWER SOURCE

Power Source	NAC 2	Brand	Gamewell-FCI	Model Number	HPF-PS6 CLASS B	Nominal System Voltage	20.4 VOLTS
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CIRCUIT 1

NAC Circuit1		0.69 AMPS	CLASS B	AWG	4 Devices	0.69 AMPS USED	0.36 VOLTAGE DROP	
#	Device Model	Candela	Pattern	Volume	Tone	CURRENT (AMPS)	Dist from prev device	Volts
1	P2RL	75	Temporal	High	Electromechanical	0.121	5	20.38
2	P2RL	110	Temporal	High	Electromechanical	0.162	38	20.24
3	P2RL	185	Temporal	High	Electromechanical	0.245	56	20.09
4	P2RL	110	Temporal	High	Electromechanical	0.162	57	20.04

CIRCUIT 2

NAC Circuit2		1.055 AMPS	CLASS B	AWG	6 Devices	1.055 AMPS USED	0.77 VOLTAGE DROP	
#	Device Model	Candela	Pattern	Volume	Tone	CURRENT (AMPS)	Dist from prev device	Volts

3	P2RL	110	Temporal	High	Electromechanical	0.162	18	19.96
4	P2RL	110	Temporal	High	Electromechanical	0.162	35	19.83
5	P2RL	185	Temporal	High	Electromechanical	0.245	56	19.69
6	P2RL	110	Temporal	High	Electromechanical	0.162	56	19.63

CIRCUIT 3

NAC Circuit3		0.972 AMPS	CLASS B	AWG	6 Devices	0.972 AMPS USED	1.07 VOLTAGE DROP	
#	Device Model	Candela	Pattern	Volume	Tone	CURRENT (AMPS)	Dist from prev device	Volts
1	P2RL	110	Temporal	High	Electromechanical	0.162	85	19.87
2	P2RL	110	Temporal	High	Electromechanical	0.162	36	19.69
3	P2RL	110	Temporal	High	Electromechanical	0.162	28	19.57
4	P2RL	110	Temporal	High	Electromechanical	0.162	41	19.44
5	P2RL	110	Temporal	High	Electromechanical	0.162	37	19.37
6	P2RL	110	Temporal	High	Electromechanical	0.162	36	19.33

CIRCUIT 4

NAC Circuit4		0.972 AMPS	CLASS B	AWG	6 Devices	0.972 AMPS USED	0.68 VOLTAGE DROP	
#	Device Model	Candela	Pattern	Volume	Tone	CURRENT (AMPS)	Dist from prev device	Volts
1	P2RL	110	Temporal	High	Electromechanical	0.162	21	20.27
2	P2RL	110	Temporal	High	Electromechanical	0.162	30	20.11
3	P2RL	110	Temporal	High	Electromechanical	0.162	36	19.97
4	P2RL	110	Temporal	High	Electromechanical	0.162	41	19.84
5	P2RL	110	Temporal	High	Electromechanical	0.162	38	19.76
6	P2RL	110	Temporal	High	Electromechanical	0.162	36	19.72

CIRCUIT 5

NAC Circuit5		0.212 AMPS	CLASS B	AWG	1 Devices	0.212 AMPS USED	0.09 VOLTAGE DROP	
#	Device Model	Candela	Pattern	Volume	Tone	CURRENT (AMPS)	Dist from prev device	Volts
1	P2RK	110	Temporal	High	Electromechanical	0.212	69	20.31