

BATTERY CALCULATIONS FOR ROUND ONE T.I. PANEL: GAMEWELL E3						
PART NO: E3BB-BD/INX - ENCLOSURE, TRANSPONDER, BLACK, SIZE D						
PART NO.	QTY.	DESCRIPTION	STANDBY	TOTAL STANDBY	ALARM	TOTAL ALARM
PANEL EQUIPMENT						
IL-MB-E3	1	ILI - MAIN BOARD, (VELOCITI OR CLIP MODE)	162.0000MA	162.0000MA	300.0000MA	300.0000MA
PM-9	1	POWER SUPPLY MODULE - 9-AMP	50.0000MA	50.0000MA	50.0000MA	50.0000MA
LCD-E3	1	LCD KEYPAD DISPLAY	24.0000MA	24.0000MA	28.0000MA	28.0000MA
AM-50-70	1	INX 50 WATT, 70V, AMPLIFIER	49.0000MA	49.0000MA	2300.0000MA	2300.0000MA
TOTAL PANEL STBY			285.0000MA	TOTAL PANEL ALARM	2678.0000MA	
PERIPHERAL DEVICES						
ASD-PL3	108	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE (SIGNALING LINE)	0.2000MA	21.6000MA	2.0000MA	218.0000MA
MS-7ASF	7	PULL STATION, SINGLE ACTION, ADDRESSABLE (SIGNALING LINE)	0.3000MA	2.1000MA	10.0000MA	70.0000MA
EOL-4.7	2	EOL-4.7K (SIGNALING LINE)	0.0000MA	0.0000MA	0.0000MA	0.0000MA
ATD-L3	3	THERMAL HEAT DETECTOR 139F, BRIGHT WHITE (SIGNALING LINE)	0.2000MA	0.6000MA	2.0000MA	6.0000MA
HPF-PS10	1	10AMP, 120VAC REMOTE CHARGER POWER SUPPLY, RED ENCLOSURE, HPF-PS10_MB (NOTIFICATION)	2.0000MA	2.0000MA	2.0000MA	2.0000MA
HPF-PS10	1	10AMP, 120VAC REMOTE CHARGER POWER SUPPLY, RED ENCLOSURE (NOTIFICATION)	2.0000MA	2.0000MA	2.0000MA	2.0000MA
TOTAL PERIPHERAL STBY			28.5000MA	TOTAL PERIPH ALARM	298.0000MA	
TOTAL STANDBY AMPS			313.5000MA	TOTAL ALARM AMPS	2978.0000MA	
STANDBY TIME: 24 HRS 7.524AH						
ALARM TIME: 15 MIN 0.7444AH						
BATTERY REQUIREMENT: 8.269AH						
REQUIREMENT WITH COMPENSATION: 9.9224AH						
COMPENSATION FACTORS - STANDBY: 1.2 ALARM: 1.2						

BATTERY CALCULATIONS FOR ROUND ONE T.I. PANEL: RPS1						
PART NO: HPF-PS10 - 10AMP, 120VAC REMOTE CHARGER POWER SUPPLY, RED ENCLOSURE						
PART NO.	QTY.	DESCRIPTION	STANDBY	TOTAL STANDBY	ALARM	TOTAL ALARM
PANEL EQUIPMENT						
HPF-PS10_MB	1	MAINBOARD FOR THE HPF-PS10	65.0000MA	65.0000MA	145.0000MA	145.0000MA
TOTAL PANEL STBY			65.0000MA	TOTAL PANEL ALARM	145.0000MA	
PERIPHERAL DEVICES						
SPSRK	1	WALL SPEAKER STROBE RED OUTDOOR (NOTIFICATION) 110CD	0.0000MA	0.0000MA	202.0000MA	202.0000MA
SPSCWL	30	L-SERIES SPEAKER/STROBE, WHITE, CEILING (NOTIFICATION) 95CD	0.0000MA	0.0000MA	134.0000MA	4020.0000MA
SPSCWL	6	L-SERIES SPEAKER/STROBE, WHITE, CEILING (NOTIFICATION) 15CD	0.0000MA	0.0000MA	41.0000MA	205.0000MA
EOL-4.7	6	EOL-4.7K (NOTIFICATION)	0.0000MA	0.0000MA	0.0000MA	0.0000MA
SCW	6	STROBE, 2 WIRE, M-C, WHITE, CEILING (NOTIFICATION) 15CD	0.0000MA	0.0000MA	120.0000MA	600.0000MA
SPSCWL	8	L-SERIES SPEAKER/STROBE, WHITE, CEILING (NOTIFICATION) 75CD	0.0000MA	0.0000MA	111.0000MA	888.0000MA
SPSCWL	6	L-SERIES SPEAKER/STROBE, WHITE, CEILING (NOTIFICATION) 30CD	0.0000MA	0.0000MA	63.0000MA	315.0000MA
TOTAL PERIPHERAL STBY			0.0000MA	TOTAL PERIPH ALARM	6230.0000MA	
TOTAL STANDBY AMPS			65.0000MA	TOTAL ALARM AMPS	6375.0000MA	
STANDBY TIME: 24 HRS 1.56AH						
ALARM TIME: 15 MIN 1.584AH						
BATTERY REQUIREMENT: 3.154AH						
REQUIREMENT WITH COMPENSATION: 3.785AH						
COMPENSATION FACTORS - STANDBY: 1.2 ALARM: 1.2						

BATTERY CALCULATIONS FOR ROUND ONE T.I. PANEL: INX1						
PART NO: E3BB-BC/INX - ENCLOSURE, TRANSPONDER, BLACK, SIZE C						
PART NO.	QTY.	DESCRIPTION	STANDBY	TOTAL STANDBY	ALARM	TOTAL ALARM
PANEL EQUIPMENT						
PM-9	1	POWER SUPPLY MODULE - 9-AMP	50.0000MA	50.0000MA	50.0000MA	50.0000MA
AM-50-70	2	INX 50 WATT, 70V, AMPLIFIER	49.0000MA	98.0000MA	2300.0000MA	4600.0000MA
TOTAL PANEL STBY			148.0000MA	TOTAL PANEL ALARM	4650.0000MA	
PERIPHERAL DEVICES						
E3BB-BD/INX	1	ENCLOSURE, TRANSPONDER, BLACK, SIZE D (POWER)	0.0000MA	0.0000MA	0.0000MA	0.0000MA
EOL-4.7	2	EOL-4.7K (NOTIFICATION)	0.0000MA	0.0000MA	0.0000MA	0.0000MA
SPSRK	1	WALL SPEAKER STROBE RED OUTDOOR (NOTIFICATION) 80DB 0.25 WATTS	0.0000MA	0.0000MA	0.0000MA	0.0000MA
SPSCWL	48	L-SERIES SPEAKER/STROBE, WHITE, CEILING (NOTIFICATION) 77DB 0.25 WATTS	0.0000MA	0.0000MA	0.0000MA	0.0000MA
TOTAL PERIPHERAL STBY			0.0000MA	TOTAL PERIPH ALARM	0.0000MA	
TOTAL STANDBY AMPS			148.0000MA	TOTAL ALARM AMPS	4650.0000MA	
STANDBY TIME: 24 HRS 3.552AH						
ALARM TIME: 15 MIN 1.163AH						
BATTERY REQUIREMENT: 4.715AH						
REQUIREMENT WITH COMPENSATION: 5.657AH						
COMPENSATION FACTORS - STANDBY: 1.2 ALARM: 1.2						

BATTERY CALCS

CIRCUIT CALCULATIONS PANEL: RPS1 CARD: 20 CIRCUIT: NAC1						
CIRCUIT NAME: NAC1						
CIRCUIT TYPE: NOTIFICATION TERMINAL VOLTAGE: 20.2V DC AMPERAGE: 2.0000A						
CABLE: 14/2 SOL JKT FPLR 1M RL RED #14						
CALCULATIONS BASED ON RUNNING TOTAL LENGTH.						
DESIGN CRITERIA: AMBIENT TEMPERATURE: 167°F MAX. OPERATING VOLTAGE DROP: 18%						
DEVICE	PART NO	APPLIANCE DESC	DISTANCE	CURRENT	VOLTAGE	VOLTAGE DROP
	HPF-PS10	PANEL			20.2V	
001	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 15CD	14'-0"	41.0000MA	20.0895V	(0.1015V)
002	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	83'-0"	134.0000MA	19.5175V	(0.581V)
003	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	33'-0"	134.0000MA	19.5137V	(0.2038V)
004	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	19.0613V	(0.2623V)
005	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	18.8293V	(0.222V)
006	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	18.6476V	(0.1817V)
007	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	36'-0"	134.0000MA	18.5437V	(0.1038V)
008	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	17'-0"	134.0000MA	18.5068V	(0.0351V)
009	SPSRK	WALL SPEAKER STROBE RED OUTDOOR, 110CD	38'-0"	202.0000MA	18.4615V	(0.0471V)
	EOL-4.7	EOL-4.7K	2'-0"	0.0000MA	18.4615V	(0V)
				370'-0"	1181.0000MA	
					TOTAL CURRENT: 1181.0000MA	
					TOTAL VOLTAGE DROP: 1.7395V	
(TOTAL VDROPERCENT: 8.61%)						

CIRCUIT CALCULATIONS PANEL: RPS1 CARD: 20 CIRCUIT: NAC2						
CIRCUIT NAME: NAC2						
CIRCUIT TYPE: NOTIFICATION TERMINAL VOLTAGE: 20.2V DC AMPERAGE: 2.0000A						
CABLE: 14/2 SOL JKT FPLR 1M RL RED #14						
CALCULATIONS BASED ON RUNNING TOTAL LENGTH.						
DESIGN CRITERIA: AMBIENT TEMPERATURE: 167°F MAX. OPERATING VOLTAGE DROP: 18%						
DEVICE	PART NO	APPLIANCE DESC	DISTANCE	CURRENT	VOLTAGE	VOLTAGE DROP
	HPF-PS10	PANEL			20.2V	
001	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	47'-0"	134.0000MA	18.8906V	(0.3094V)
002	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	33'-0"	134.0000MA	19.7068V	(0.1901V)
003	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	19.4587V	(0.2418V)
004	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	19.2571V	(0.2016V)
005	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	67'-0"	134.0000MA	19.0685V	(0.1876V)
006	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	31'-0"	134.0000MA	18.993V	(0.0765V)
007	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	67'-0"	134.0000MA	18.8927V	(0.0938V)
008	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	31'-0"	134.0000MA	18.8737V	(0.0256V)
	EOL-4.7	EOL-4.7K	3'-0"	0.0000MA	18.8737V	(0V)
				357'-0"	1072.0000MA	
					TOTAL CURRENT: 1072.0000MA	
					TOTAL VOLTAGE DROP: 1.3265V	
(TOTAL VDROPERCENT: 6.57%)						

CIRCUIT CALCULATIONS PANEL: RPS1 CARD: 20 CIRCUIT: NAC3						
CIRCUIT NAME: NAC3						
CIRCUIT TYPE: NOTIFICATION TERMINAL VOLTAGE: 20.2V DC AMPERAGE: 2.0000A						
CABLE: 14/2 SOL JKT FPLR 1M RL RED #14						
CALCULATIONS BASED ON RUNNING TOTAL LENGTH.						
DESIGN CRITERIA: AMBIENT TEMPERATURE: 167°F MAX. OPERATING VOLTAGE DROP: 18%						
DEVICE	PART NO	APPLIANCE DESC	DISTANCE	CURRENT	VOLTAGE	VOLTAGE DROP
	HPF-PS10	PANEL			20.2V	
001	SCW	STROBE, 2 WIRE, M-C, WHITE, CEILING, 15CD	14'-0"	120.0000MA	20.0895V	(0.1005V)
002	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	10'-0"	134.0000MA	20.0351V	(0.0644V)
003	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	22'-0"	134.0000MA	19.9115V	(0.1236V)
004	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	65'-0"	134.0000MA	19.5999V	(0.3117V)
005	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	19.4052V	(0.1847V)
006	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	19.2508V	(0.1543V)
007	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	19.1368V	(0.114V)
008	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	39'-0"	134.0000MA	19.0781V	(0.0687V)
009	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 75CD	26'-0"	111.0000MA	19.0604V	(0.0177V)
	EOL-4.7	EOL-4.7K	2'-0"	0.0000MA	19.0604V	(0V)
				325'-0"	1169.0000MA	
					TOTAL CURRENT: 1169.0000MA	
					TOTAL VOLTAGE DROP: 1.1396V	
(TOTAL VDROPERCENT: 5.64%)						

CIRCUIT CALCULATIONS PANEL: RPS1 CARD: 20 CIRCUIT: NAC4						
CIRCUIT NAME: NAC4						
CIRCUIT TYPE: NOTIFICATION TERMINAL VOLTAGE: 20.2V DC AMPERAGE: 2.0000A						
CABLE: 14/2 SOL JKT FPLR 1M RL RED #14						
CALCULATIONS BASED ON RUNNING TOTAL LENGTH.						
DESIGN CRITERIA: AMBIENT TEMPERATURE: 167°F MAX. OPERATING VOLTAGE DROP: 18%						
DEVICE	PART NO	APPLIANCE DESC	DISTANCE	CURRENT	VOLTAGE	VOLTAGE DROP
	HPF-PS10	PANEL			20.2V	
001	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	127'-0"	134.0000MA	19.3001V	(0.8899V)
002	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	18.9933V	(0.3069V)
003	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	18.7267V	(0.2666V)
004	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	18.5004V	(0.2262V)
005	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	49'-0"	134.0000MA	18.3145V	(0.1859V)
006	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	39'-0"	134.0000MA	18.1986V	(0.1159V)
007	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	13'-0"	134.0000MA	18.1707V	(0.0279V)
008	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 95CD	54'-0"	134.0000MA	18.0991V	(0.0716V)
009	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 15CD	15'-0"	41.0000MA	18.0915V	(0.0078V)
010	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 15CD	63'-0"	41.0000MA	18.0757V	(0.0159V)
	EOL-4.7	EOL-4.7K	3'-0"	0.0000MA	18.0757V	(0V)
				510'-0"	1154.0000MA	
					TOTAL CURRENT: 1154.0000MA	
					TOTAL VOLTAGE DROP: 2.1243V	
(TOTAL VDROPERCENT: 10.52%)						

VOLTAGE DROPS

CIRCUIT CALCULATIONS PANEL: RPS1 CARD: 20 CIRCUIT: NAC5						
CIRCUIT NAME: NAC5						
CIRCUIT TYPE: NOTIFICATION TERMINAL VOLTAGE: 20.2V DC AMPERAGE: 2.0000A						
CABLE: 14/2 SOL JKT FPLR 1M RL RED #14						
CALCULATIONS BASED ON RUNNING TOTAL LENGTH.						
DESIGN CRITERIA: AMBIENT TEMPERATURE: 167°F MAX. OPERATING VOLTAGE DROP: 18%						
DEVICE	PART NO	APPLIANCE DESC	DISTANCE	CURRENT	VOLTAGE	VOLTAGE DROP
	HPF-PS10	PANEL			20.2V	
001	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 15CD	62'-0"	41.0000MA	19.7873V	(0.4127V)
002	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 15CD	97'-0"	41.0000MA	19.1662V	(0.8212V)
003	SCW	STROBE, 2 WIRE, M-C, WHITE, CEILING, 15CD	20'-0"	120.0000MA	19.9431V	(0.123V)
004	SCW	STROBE, 2 WIRE, M-C, WHITE, CEILING, 15CD	19'-0"	120.0000MA	19.9466V	(0.0378V)
005	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 30CD	26'-0"	63.0000MA	18.824V	(0.1216V)
006	SCW	STROBE, 2 WIRE, M-C, WHITE, CEILING, 15CD	18'-0"	120.0000MA	18.7467V	(0.0773V)
007	SCW	STROBE, 2 WIRE, M-C, WHITE, CEILING, 15CD	9'-0"	120.0000MA	18.7147V	(0.032V)
008	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 75CD	24'-0"	111.0000MA	18.6471V	(0.0676V)
009	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 30CD	31'-0"	63.0000MA	18.5809V	(0.0662V)
010	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 30CD	37'-0"	63.0000MA	18.5161V	(0.0647V)
011	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 75CD	29'-0"	111.0000MA	18.4766V	(0.0395V)
012	SPSCWL	L-SERIES SPEAKER/STROBE, WHITE, CEILING, 75CD	43'-0"	111.0000MA	18.4473V	(0.0293V)
	EOL-4.7	EOL-4.7K	3'-0"	0.0000MA	18.4473V	(0V)
				417'-0"	1084.0000MA	
					TOTAL CURRENT: 1084.0000MA	
					TOTAL VOLTAGE DROP: 1.7527V	
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