

**EST3 Addressable Fire Alarm System  
Armory Building - UNE  
Portland, Maine**

**BATTERY STANDBY CALCULATIONS - Fire Command Center**

QTY	Model #	Description	Quiescent Current	Alarm Current	Total Quiescent	Total Alarm
1	3-CPU3	Central Processing Unit	0.155000	0.165000	0.155000	0.165000 Amp
2	3-ANNCPU3	Annunciator Central Processing Unit	0.144000	0.144000	0.288000	0.288000 Amp
1	3-RS485	Network Communications Card	0.098000	0.098000	0.098000	0.098000 Amp
3	3-LCD	Liquid Crystal Display	0.040000	0.042000	0.120000	0.126000 Amp
1	3-PPS-MON	Power Supply & Monitor Module	0.050000	0.050000	0.050000	0.050000 Amp
1	3-BBC-M	Battery Charning Power Supply	0.070000	0.070000	0.070000	0.070000 Amp
1	3-12/S1RY	Switch / Dual LED Module	0.002000	0.001500	0.002000	0.001500 Amp
1	3-SSDC1	Addressable Single Loop Line Card (Fully Loaded)	0.144000	0.204000	0.144000	0.204000 Amp
1	3-ASU/4	Audio Source Unit	0.080000	0.080000	0.080000	0.080000 Amp
1	3-ZA95**	Amplifier (Active, Fully Loaded)	0.064000 **	5.540000 **	0.064000	5.540000 Amp
2	EC-50R	Beam Smoke Detector	0.004000	0.014000	0.008000	0.028000 Amp
2	RTS	Remote Test for Beam Detector	0.000000	0.008000	0.000000	0.016000 Amp
3	CM-E1	Carbon Monoxide Detector	0.015000	0.035000	0.045000	0.105000 Amp
<b>Total</b>					<b>1.124</b>	<b>6.7715 Amp</b>

\* Fully Loaded w/ 250 Devices

\*\* See Amp Loading Chart for Actual Loads

Total Quiescent x Time Required (60 Hours):	<b>67.44</b>	Ah
Total Alarm x Time Required (10 Minutes):	<b>1.1285833</b>	Ah
<b>Total Battery Required:</b>	<b>68.568583</b>	<b>Ah</b>
<b>Total Battery Required (+) 20% Spare Capacity:</b>	<b>82.2823</b>	<b>Ah</b>
<b>Battery Supplied:</b>	<b>100</b>	<b>Ah</b>