

**iO500RD Addressable Fire Alarm System Addition
Addition to Bayside Bowl
Portland, Maine**

BATTERY STANDBY CALCULATIONS - Fire Alarm Control Panel

QTY	Model #	Description	Quiescent Current	Alarm Current	Total Quiescent	Total Alarm
1	iO500RD	Base Panel *	0.171001	0.267000	0.171001	0.267000 Amp
1	SA-232	Serial Communications Card	0.013000	0.013000	0.013000	0.013000 Amp
1	XAL250	Expander Card	0.06	0.125	0.060000	0.125000 Amp

				<u>0.244001</u>	<u>0.405000</u>
* Based on a fully loaded loop of 250 devices.	Total Quiescent x Time Required (60 Hours):			14.64003	Ah
	Total Alarm x Time Required (15 Minutes):				0.10125 Ah
	Total Battery Required:				14.74128 Ah
	Total Battery Required (+) 20% Spare Capacity:				17.689536 Ah
	Battery Supplied:				18 Ah

Fire alarm panel is existing; calculation is shown with new expander card addition. Existing batteries will be sufficient to cover new load.