118 on Munjoy Hill Fire Ala
Section 16721

NOTIFIER by Honeywell

# System Power Requirements

**FCPS-24s8 Power Supply #1**

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 10/01/14

Protected Premises: 118 On Munjoy Date:
Address: 118 Congress Street
City: Portland State: Maine Zip: 04101

Prepared By: Norris Inc. Phone: 207-883-3473
Address: 2257 Broadway Email:
City: South Portland State: Maine Zip: 04106

## AC Branch Current Requirements

3.20 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

## Primary Standby Load

0.09 Amps

Current load on the primary power supply during **non-alarm** conditions.

## Primary Alarm Load

3.39 Amps

Current load on the primary power supply during **alarm** conditions.

## Secondary Load Requirements

2.21 Amp Hours

Total Secondary Load from the calculation table below.

| Current Draw | | Time (hours) | Total (AH) |
|---|---|---|---|
| **Secondary Standby Load** 0.065 A | x | Required Standby Time 24 hours | 1.56 |
| **Secondary Alarm Load** 3.388 A | x | Required Alarm Time (hours) 0.084 hours | 0.28 |
| | | Total Secondary Load | 1.84 |
| | | Derating factor | x 1.2 |
| | | **Secondary Load Requirements** | **2.21** AH |

## Battery Selection

7 Amp Hours

Select batteries from the list below.

7 AH BAT-1270 Battery (12 volt)

(•) Two ( ) Four (two 12VDC sets in parallel)

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## Battery Distribution Chart

Shows amp-hour distribution of your selections.

## Comments

1. Batteries will fit in the FACP cabinet.
2. Selected battery size meets secondary load requirements.
3. The selected batteries (7AH) are within the charger range of this power supply (7-18AH).

| | | |
|---|---|---|
| Spare Battery Capacity | 4.79 | Battery Selection (AH) - Secondary Load Requirements (AH) |
| Secondary Standby Load | 1.87 | Secondary Standby Load (AH) * Derating Factor |
| Secondary Alarm Load | 0.34 | Secondary Alarm Load (AH) * Derating Factor |