SILENT KNIGHT

5700 Calculations
Version 08.06.13

Global Project Values:

Project Name: Cumberland Farms
Project ID: Portland CF
Prepared By: Richard Lindsay
Date: 4/17/2014

Standb
Alar
Derating
Voltage Drop
Thres

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 05/05/14

Panel ID: 5700
Location:

Model: 5700 Add. Fire Alarm Control Panel
Volts: 24 VDC

Max NAC C
Max Panel Current: 2.5 Amps

Ckt.#	Circuit Name	Qty	Current Draw Standby	Current Draw Alarm	Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop
5700	5700 CTRL Panel	1	0.200	0.365						
SK	Photo, Photo-T, PhotoR	8	0.002	0.002						
SK	Ion		0.000	0.000						
SK	Heat, Heat-HT, ROR	7	0.002	0.002						
SK	Beam, Beam-T		0.000	0.000						
SK	Duct	2	0.001	0.001						
SK	Acclimate		0.000	0.000						
SK	FIRE-CO		0.000	0.000						
SK	Control		0.000	0.000						
SK	Control-6		0.000	0.000						
SK	RelayMon-2		0.000	0.000						
SK	Monitor, Minimon	1	0.000	0.000						
SK	Monitor-2		0.000	0.000						
SK	Monitor-10		0.000	0.000						
SK	Pull-SA, Pull-DA	2	0.001	0.001						
SK	Relay		0.000	0.000						
SK	Relay-6		0.000	0.000						
SK	Zone		0.000	0.000						
SK	Zone-6		0.000	0.000						
SK	Isolator Module		0.000	0.000						
B224BI	Isolator Base		0.000	0.000						
B200SR	Sounder Base		0.000	0.000						
B200S	Intelligent Sounder Base		0.000	0.000						
B224RB	Relay Base		0.000	0.000						
RTS151	Magnetic Remote Test		0.000	0.000						
RTS151KEY	Key Activated Test	2	0.000	0.015						
RA100Z	Remote LED		0.000	0.000						
5860	LCD Remote Annunc.	1	0.020	0.025						
5824	LCD Remote Annunc.		0.000	0.000						
5496	Power Expander		0.000	0.000						
5895XL	Power Expander		0.000	0.000						
5865-3	LED Annunciator (3G)		0.000	0.000						
5865-4	LED Annunciator (4G)		0.000	0.000						
5880	LED Driver Module		0.000	0.000						
5883	Relay Module		0.000	0.000						
NAC #1	Notification Appl Circuit		0.000	2.002	#14 Solid	2.52		0.00	20.40	0.00%
NAC #2	Notification Appl Circuit		0.000	0.000	#14 Solid	2.52		0.00	20.40	0.00%

"NA"

Total Standby Current (Amps)	0.226	2.413	Total Alarm Current (Amps)
Standby Time In Hours	24	0.167	Alarm Time In Minutes / 60 (10 Mins)
Total Standby AH Required	5.429	0.402	Total Alarm AH Required
Total Combined AH Required	5.83		
Multiply By The Derating Factor	1.20		
Minimum Battery AmpHours Required	**7.00**		

Command Shortcuts

Configure Circuits

Print Page

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Circuit Configuration

Project Information

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Prepared By: Richard Lindsay

Project ID: Por

Date: 4/17

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Ckt. Number: NAC #1

Ckt. Name: Notification Appl Circuit

Panel ID: 5700

Use: Aux Power Circuit

Qty	Device	Current Draw Each Standby	Current Draw Each Alarm	Current Draw Total Standby	Current Draw Total Alarm
4	System Sensor P2/PC2 Horn/Strobe (110cd)	0.000	0.176	0.000	0.704
3	System Sensor S/SC Strobe (15/75cd)	0.000	0.176	0.000	0.528
1	Beacon	0.000	0.770	0.000	0.770
	Unused	0.000	0.000	0.000	0.000
				0.000	0.000
			Totals	0.000	2.002

Ckt. Number: NAC #2

Ckt. Name: Notification Appl Circuit

Panel ID: 5700

Use: Aux Power Circuit

Qty	Device	Current Draw Each Standby	Current Draw Each Alarm	Current Draw Total Standby	Current Draw Total Alarm
	Beacon	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
				0.000	0.000
			Totals	0.000	0.000