Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 03/16/17

EBPS10A BATTERY CALCULATIONS

SYSTEM PARAMETERS

STANDBY TIME	24	HOURS
ALARM TIME	15	MINUTES
WIRE DISTANCE SAFETY FACTOR	20%	
BATTERY DERATING FACTOR	125%	
WIRING STYLE	B	

COMPONENTS	STANDBY	ALARM	WIRE SIZE (AWG SOLID)	OHMS/KFT
EBPS6A	0.07	0.27		
NAC 1	0	1.135	14	3.14
NAC 2	0	1.545	14	3.14
NAC 3	0	1.252	14	3.14
NAC 4	0	1.48	14	3.14
AUX	0	0		
TOTAL AMPS (ON AC)	0	5.412		
TOTAL AMPS (ON BATTERY)	0.07	5.682		
STANDBY & ALARM TIME (HRS)	24	0.25		
AH REQUIRED	1.68	1.4205		
TOTAL AH REQUIRED	3.1005	AH		
BATTERY DERATING FACTOR	125%			
MINIMUM AH REQUIRED	3.876	AH		

BATTERIES TO BE INSTALLED	7	AH