

STATIONARY STORAGE BATTERY SYSTEMS

Project Typ	be:
Project Ad	dress:
Contact Na	me: Phone No.
Owner Na	ne:
1. Batte	ry System
N/A	The battery system has an electrolyte capacity of more than 50 gallons (189 L) for flooded lead-acid, nickel cadmium (Ni-Cd) and value-regulated lead-acid (VRLA)
-	Specify # of Gallons
N/A	The battery system has more than 1,000 pounds (454 kg) for lithium-ion and lithium metal polymer.
	Specify # of Pounds

Total gallons - Electrolyte & Acid (16 batteries): 44.48

2. Battery Classification (Total for building or control area)

- □ Nonrecombinant Vented Lead Acid- kWh? _____
- □ Nonrecombinant Vented N ickel-Cadmium- kWh? _____
- □ Recombinant Value Regulated Lead Acid Cells- kWh? _____
- □ Recombinant Valve Regulated Lithium-Ion Cells kWh? _____

3. Current Fire Protection Systems (Check all that apply)

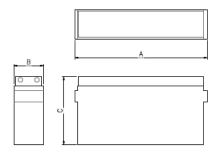
- □ NFPA 72 Monitored Fire Alarm System
 - Monitoring Center/Central Station? ______
- □ NFPA 704 Placarding
- $\hfill\square$ Knox Box for Fire Department Access
- □ Fire Sprinkler System
- □ Neutralization Product and Quantity

- 4. **Permits Required (***fire code requirements are referenced in the table on the following page*)
 - Battery System Permit
 - Fire Alarm Permit

BATTERY TECHNOLOGY	MAXIMUM ALLOWABLE QUANTITIES ⁸	GROUP H OCCUPANCY		
Flow batteries ^b	600 kWh	Group H-2		
Lead acid, all types	Unlimited	Not Applicable		
Lithium, all types	600 KWh	Group H-2		
Nickel cadmium (Ni-Cd)	Unlimited	Not Applicable		
Sodium, all types	600 kWh	Group H-2		
Other battery technologies	200 Wh	Group H-2 ^c		

REQUIREMENT	NONRECOMBINA	ANT BATTERIES	RECOMBINANT	OTHER BATTERIES	
	Vented (Flooded) Lead Acid Batteries	Vented (Flooded) Nickel-Cadmium (Ni-Cd) Batteries	Valve Regulated Lead- Acid (VRLA) Cells	Lithium-Ion Cells	Lithium Metal Cells
Safety caps	Venting caps (608.2.1)	Venting caps (608.2.1)	Self-resealing flame- arresting caps (608.2.2)	No caps	No caps
Thermal runaway management	Not required	Not required	Required (608.3)	Not required	Required (608.3)
Spill control	Required (608.5)	Required (608.5)	Not required	Not required	Not required
Neutralization	Required (608.5.1)	Required (608.5.1)	Required (608.5.2)	Not required	Not required
Ventilation	Required (608.6.1; 608.6.2)	Required (608.6.1; 608.6.2)	Required (608.6.1; 608.6.2)	Not required	Not required
Signage	Required (608.7)	Required (608.7)	Required (608.7)	Required (608.7)	Required (608.7)
Seismic protection	Required (608.8)	Required (608.8)	Required (608.8)	Required (608.8)	Required (608.8)
Smoke detection	Required (608.9)	Required (608.9)	Required (608.9)	Required (608.9)	Required (608.9)

	SPECIFICATIONS										
	VOLTAGE	CAPACITY (AH)		NOMINAL DIMENSIONS					NOMINAL		
MODEL NUMBER		8 HR TO 1.75 VPC 1	10 HR TO 1.8 VPC	INCHES			MILLIMETERS			WEIGHT	
		@ 25°	@ 25°	Α	В	С	Α	В	C	LBS	Kg
NSB 190FT RED BATTERY	12	183 / 186 AH	187 / 190 AH	22.0	4.9	12.6	560	125	320	124.3	56.3



ELECTRICAL DATA						
MODEL NUMBER	SHORT CIRCUIT CURRENT	INTERNAL RESISTANCE (mOhms)				
NSB 190FT RED BATTERY	5000 A	2.8				

FLOAT VOLTAGE

CONSTANT VOLTAGE CHARGING IS RECOMMENDED.

RECOMMENDED FLOAT VOLTAGE: 2.27 +/- 0.02 VPC.

CHAPTER 12, SECTION 1206								
ELECTRICAL ENERGY STORAGE SYSTEM								
1206.2 SC	1206.2 SCOPE:							
EXCEEDIN	STATIONARY STORAGE BATTERY SYSTEMS HAVING CAPACITIES EXCEEDING THE VALUES SHOWN IN TABLE 1206.2 SHALL COMPLY W/ SECTION 1206.2.1 THROUGH 1206.2.12.6, AS APPLICABLE,							
	BATTERY STORAGE SYSTEM THRESHOLD QTY'S							
CATTE	CATTERY TECHNOLOGY CAPACITY ALLOWED							
LEAD	LEAD ACID, ALL TYPES 70 kWh (252 MEGAJOULES)							
		AH = VOLT	AGE (AH)/	1000				
VOLTS	АН		kWh NO. OF BATTERIES TOTAL kW					
12	190	1000	2.28	16	36.48			
CONCLU	CONCLUSIONS:							
36.48 < 70 kWh SECTION 1206.2 DOES NOT APPLY								
TOTAL BATTERY WEIGHT (16 BATTERIES): 1,988.8 LBS								
TOTAL GALLONS - ELECTROLYTE & ACID (16 BATTERIES): 44.48								

NORTHSTAR NSB 190FT RED BATTERY SPECS SCALE: NOT TO SCALE