CITY OF MERCER ISLAND

Fire Marshal's Office
3030 78th Ave SE | MERCER ISLAND, WA 98040
PHONE: 206.275.7966 | www.mercerisland.gov

2018 STATIONARY STORAGE BATTERY SYSTEMS

Project Type:	
Project Address:	
Contact Name:	**Phone No.**
Owner Name:	

1. **Battery System**

☐ 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 _____

If either of these are checked then permits in #3 are required

☐ The battery system has more than 1,000 pounds (454 kg) for lithium-ion and lithium metal polymer.

Specify # of Pounds _____

☐ The battery system has less than the above quantities. *No Fire Permits are Required.*

2. **Battery Classification**

☐ Nonrecombinant Vented Lead Acid
☐ Nonrecombinant Vented Nickel-Cadmium
☐ Recombinant Value Regulated Lead Acid Cells
☐ Recombinant Valve Regulated Lithium-Ion Cells
☐ Lithium Metal Cells

3. **Permits Required (***fire code requirements are referenced in the table on the following page***)**

- Battery System Permit
- Fire Alarm Permit

TABLE 608.1
BATTERY REQUIREMENTS

REQUIREMENT	NONRECOMBINANT BATTERIES		RECOMBINANT BATTERIES		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)