

# CITY OF MERCER ISLAND

Fire Marshal's Office

3030 78<sup>th</sup> Ave SE | MERCER ISLAND, WA 98040

PHONE: 206.275.7966 | [www.mercergov.org](http://www.mercergov.org)



## 2018 STATIONARY STORAGE BATTERY SYSTEMS

<b>Project Type:</b>	
<b>Project Address:</b>	
<b>Contact Name:</b>	<b>Phone No.</b>
<b>Owner Name:</b>	

### 1. Battery System

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

- 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 \_\_\_\_\_

- 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)