



LITHIUM ION BATTERY

It is recommended to fill out all fields for a comprehensive incident report.

Modules

Mandatory:	Basic Fire or Wildland
Mandatory if occurs:	Civilian or Fire Service Casualty (Civilian Module if it's in your jurisdiction) Structure (If the fire occurred in a building)
Optional:	Apparatus/Personnel

Incident Types: Batteries that cause fires, use Incident Type Codes in the **100 series** (i.e., **111 – Building, 131 – Passenger Vehicle**, etc.)

Batteries that cause injuries (**No Fire**), use Incident Type Codes in **300 series** (i.e., **311 – Medical Assist, 321 – EMS Call (excludes motor vehicle accident with injuries), or 322 – Motor vehicle accident with injuries.**

Batteries presents a **Hazardous Condition (does not start a fire)**, must be coded in the **400 series** (i.e., **422 – chemical spill or leak or 445 – arcing, shorted electrical equipment**)

Basic Module

- Alarm, Arrival, and Last Unit Cleared dates/times.
- Mutual Aid
- Estimated Dollar Losses & Values are estimates and are required for all fires.
- Resources
- Property Use
- Narrative. Include information like:
 - The involvement of a lithium-ion battery
 - Whether or not the battery being charged at the time of the incident
 - Estimated percentage of the battery charge at the time of the incident
 - Type of battery (i.e., Pouch Cell, Cylindrical Cell, Prismatic Cell)
 - Brand

Fire Module

Fire Module is required for Incident Types **110 – 112, 120 – 138, 141 – 143 and 161 – 164**

Wildland Module is an option in place of the Fire Module for vegetation fires. *See Wildland Module

- Number of Residential (Structure fires only)
- Number of Building (Structure fires only)
- Acres Burned (For vegetation fires)
- On-Site Materials (significant amount of commercial, industrial, energy or agricultural products/materials were on-site)

Lithium Ion Battery

- Area of Origin
- Heat Source – Using codes in the **10 series** are recommended, such as
 - **12 – Radiated or conducted heat from operating equipment**
 - **13 – Electrical arching**
- Item First Ignited
- Type of Material First Ignited
- Cause of Ignition
- Factors Contributing to Ignition
 - **40 – Design, manufacturing, installation deficiency, other (battery fails)**
 - **50 – Operational deficiency, other (Battery fails while/during charging)**
- Human Factors Contributing to Ignition (Is most likely None)
- Equipment Involved in Ignition
 - **228 – Battery charger, rectifier**
 - **229 – Battery**
- Equipment Power Source
 - **1 – Portable**
 - **2 – Stationary**
- Mobile Property Involved – If the Incident Type is a vehicle of any sort, this section should be completed to the best of your ability. Include information like Type, Make, Model, Year, License Plate, State, and VIN. Take a picture of the VIN while investigating will help filling these out. Select how the vehicle was involved.
 - **1 – Mobile property not involved in ignition, but burned in fire following ignition**
 - **2 – Mobile property was involved in ignition, but did not burn**
 - **3 – Mobile property involved in ignition, and it burned**
 - **N – None**
- Mobile Property Type – Select the code most applicable.
 - **11 – Automobile, passenger car, ambulance, limousine, race car, taxi**
 - **12 – Bus, school bus**
 - **10 – Passenger road vehicles, other (Use for hover boards, motorized scooters, etc. Add details such as the specific type of mobile property in the narrative field in the Basic module.)**

Wildland Module

Option for Incident Types **141 – 143** and **161 – 164**. Wildland is best to use for Incident Types **171 – 173**.

Required fields:

- Alternate Location Specification (required if location does not have an address). www.maps.google.com can assist with the pinpoint.
- Area Type (Urban, Rural, Wildland)
- Wildland Fire Cause (**0 – Other**)
- Human Factors Contributing to Ignition
- Factors Contributing to Ignition
- Heat Source
 - **12 – Radiated or conducted heat from operating equipment**
 - **13 – Electrical arching**
- Number of Buildings Ignited or Threatened. A separate exposure report must be done for each exposure.
- Total Acres Burned
- Report any crops that burned

Structure Module

Structure Module is required for Incident Types **110 – 112** and **120 – 138**:

- Structure Type and Building Status
- Building Height, # of stories
- Total Square Footage OR Building Length and Width (Zillow and websites alike have this information)
- Story of Fire Origin, Fire Spread and Stories Damaged
- Materials Contributing to Flame Spread. If materials are different than what is selected in the Fire Module. If it's the same material. Check the box "No Flame Spread".
- Detectors. The sequence goes left to right, then the next row. If Undetermined, None, or Unknown is selected, do not move on to the next box.
- Automatic Extinguishing System. Same sequence and stop when Undetermined is selected.

Civilian Fire Casualty Module

Module is required when there is a citizen injured or death by the fire. Must be completed by the AHJ. Departments that gave aid does not fill this out.

(One module per civilian fire casualty)

Fire Service Casualty Module

This module is required when an injury, death, or exposure to the department's own Fire Service Personnel because of an incident.

(One module should be completed for each person if there are multiple injuries, deaths, or exposures)

EMS Module

For EMS calls (300 – series code), complete one EMS module for each citizen involved.

Required fields:

- Date/Time
- Provider Impression/Assessment
- Age of Patient
- Gender
- Human Factors (if applicable)
- Body Site & Injury Type (up to 5)
- Cause of Illness/Injury
 - **10 – Chemical Exposure.** This includes the accidental poisoning by solid or liquid substances, gases, and vapors.
 - **29 – Motor vehicle accident.** If an electric vehicle was involved
 -
- Initial Level of Provider