



# Fire App Incident Reporting for Li-Ion Battery Incidents



## Vehicle Collisions involving an EV/Hybrid with/without fire

To document any Electric/Hybrid Vehicle collision including an incident with a fire/thermal runaway event after the collision, utilize the below:

**Incident Type:** *Select most appropriate*

- (322) Motor vehicle accident with injuries
- (323) Motor vehicle/pedestrian accident (MV Ped)
- (324) Motor Vehicle Accident with no injuries

**All Other Non-Hazmat Tab Sections:** *Complete as normal*

**Hazmat Tab –** Consult with Hazmat Officer if necessary. Highlighted items are mandatory

- **Release From:** *Outside of Structure unless inside for some reason*
- **Story of release:** *Leave blank*
- **Only fill out the following items if there was an evacuation.** I.e. – collision had an extended EV fire with smoke travel, etc.
  - Population Density: *Self-explanatory*
  - Area Affected Unit: *Self-explanatory*
  - Total Area Affected: *Self-explanatory*
  - Area Evacuated Unit: *Self-explanatory*
  - Total Area Evacuated: *Self-explanatory*
  - # of People Evacuated: *Self-explanatory*
  - # of Buildings Evacuated: *Self-Explanatory*
- **Hazmat Actions Taken:** *Select all appropriate. Below are common items for battery incidents:*
  - Hazardous Condition
    - *Identify, analyze hazardous materials*
    - *Hazmat detection, monitoring, sampling, analysis*
    - *Remove hazard or hazardous materials*
  - Information, Investigation & Enforcement
    - *Investigate*
    - *Notify other agencies (I.e. – MDE, Tow Company)*
  - Isolation and Evacuation
    - *Isolate area & establish hazard control zones*
    - *Protect-in-place operations*
- **Fire or Explosion – which occurred first:** *complete only if collision caused fire or thermal runaway*
  - *Ignition – actual fire*
  - *Release – thermal runaway event with vapor and no fire*
  - *Undetermined – self-explanatory*
- **Cause of Release:** *Container or containment failure*
- **Release Factors:** *select most appropriate. Below are most common:*
  - *Operational Deficiency*
    - *Collision, overturn, knockdown*



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- *Equipment not being operated properly*
- *Equipment overload*

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- *Mechanical Failure, Malfunction*
  - *Short circuit, ground fault*
  - *Oter electrical failure*
- **Mitigation Factors:** *select most appropriate. Below are most common for EV fires:*
  - *Release Factors*
    - *Combination of release and fire impeded mitigation*
  - *Site Factors – Select ALL appropriate*
    - *Released in residential area*
    - *Released into sewer system – I.e. – fire water runoff into system*
    - *Released into water table – I.e. – fire water runoff onto ground or into body of water*
    - *Released on major roadway – Self-explanatory*
- **Disposition:** *Select most appropriate*
  - *Released to property owner or manager – vehicle left in place and responsible party advised of follow-up actions*
  - *Released to private agency – I.e. – tow truck takes vehicle away*
  - *Released to county agency. I.e. – MCPD handling scene*
  - *Released to state agency – I.e. – MDE remains on scene*
- **Casualties:** *complete as appropriate*

## Material Tab

- Select Add Chemical
- **Chemical Name** (Select one of the following)
  - Lithium-Ion Batteries (any cell, battery pack, appliance, mobility device small than an over the road vehicle)
  - Lithium-Ion Batteries contained in equipment (vehicles such as cars, trucks, etc. or other large equipment)
  - Lithium-Ion Batteries installed in cargo transport (box trailer, etc.)

**Est Amount Released** – enter 1 as default or unknown (this is a NFIRS required field)

- *Note – (1) 18650 Cell = approx. 4grams. I.e. - 50 cells = 200grams*
- **Released units** – enter ounces or grams as default.
- All other fields are optional. If you know something enter it.

## Equipment & Mobile Tab

- Not required at this point - Same info as Ignition tab section if need be

## Narrative Tab

- Enter any specifics to the battery- or battery-operated equipment if necessary