



Lithium Battery Incident

PHMSA – 2023



U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration

PHMSA: Your Safety is Our Mission



Houston TX – April 23, 2017

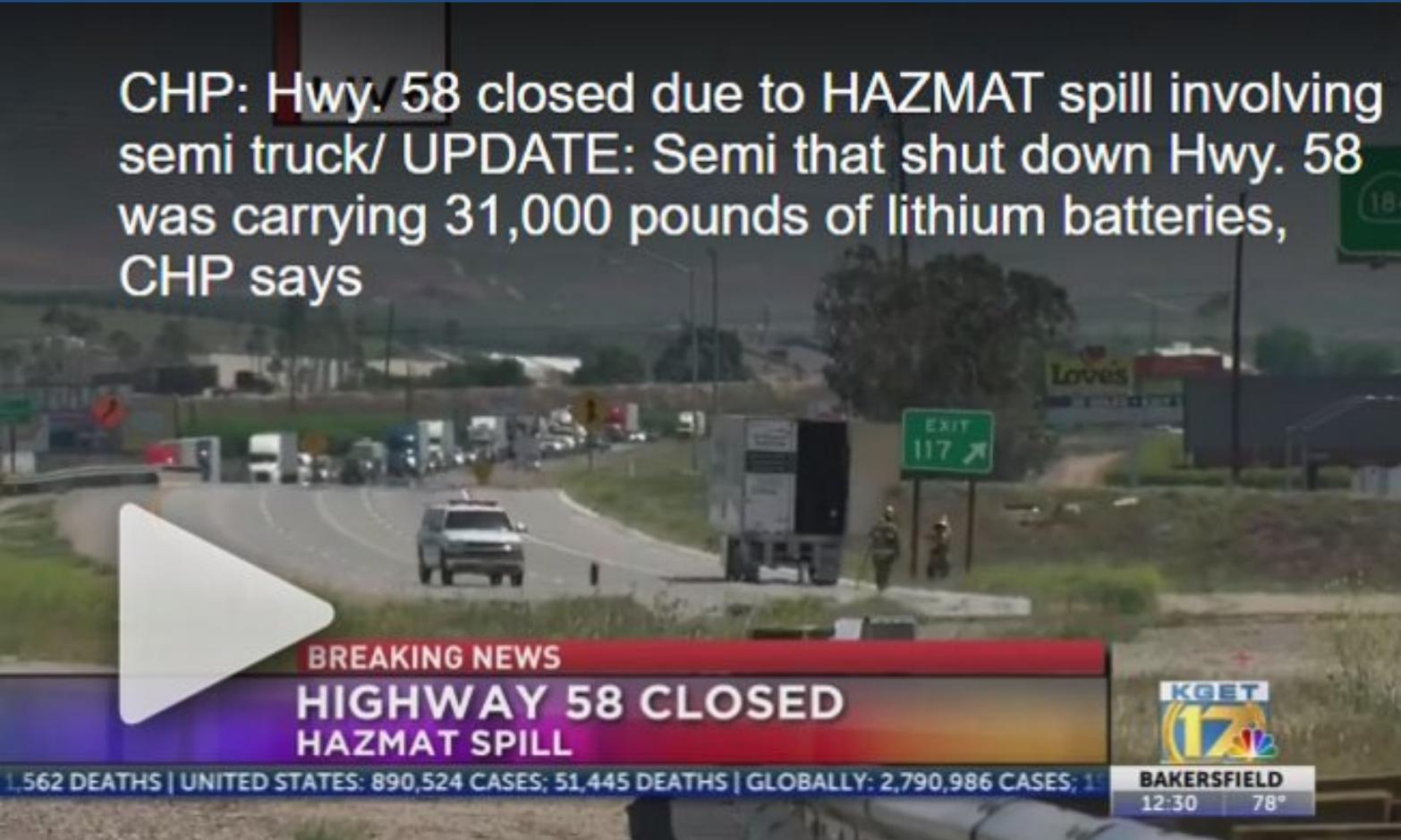


Shipping container exploded while in transportation by rail. There was no warning or indication that lithium batteries were involved.



Bakersfield, CA – April 27, 2020

CHP: Hwy. 58 closed due to HAZMAT spill involving semi truck/ UPDATE: Semi that shut down Hwy. 58 was carrying 31,000 pounds of lithium batteries, CHP says



One
Shipment

Two
incidents



Suffolk, VA – August 19, 2021



Ground
shipment
headed to
a port



Suffolk, VA – August 19, 2021



Lawrenceville, GA – December 7, 2021



Rolla, MO – January 27, 2022



A trailer load of new Chevy Bolt batteries got involved in a traffic accident on its way to Oklahoma. Packaging may have played a role in keeping this incident becoming much worse than it was.



Rolla, MO – January 27, 2022



San Antonio, TX – February 10, 2022



Use of black shrink-wrap made it difficult to see damage that impacted the cellphones/batteries in the packages.



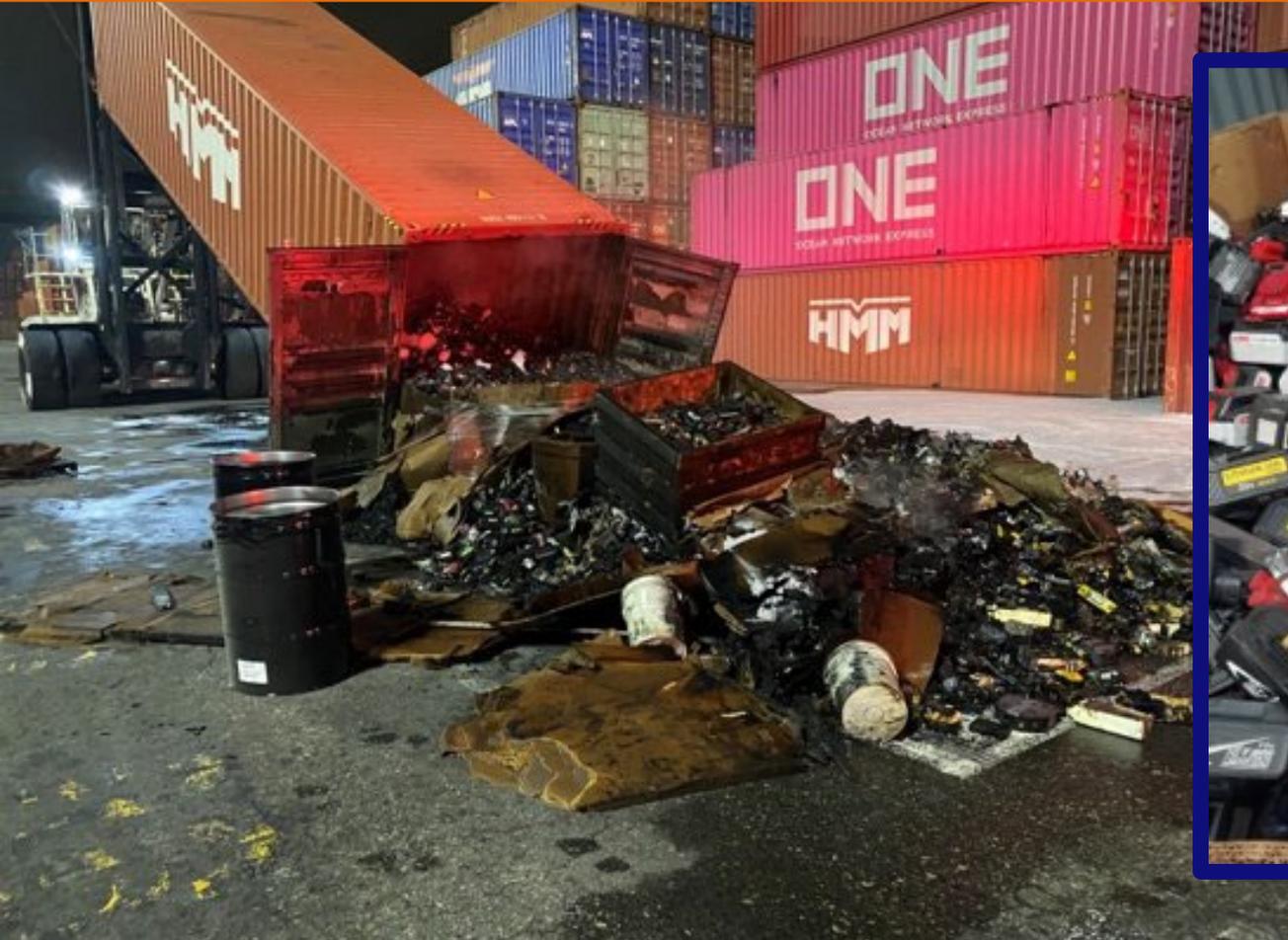
Port – L.A. Long Beach – March 4, 2022



- Shipper described the contents as **Synthetic Resins N.O.S.**
- Many other containers were found in the port and loaded on ships with the same description



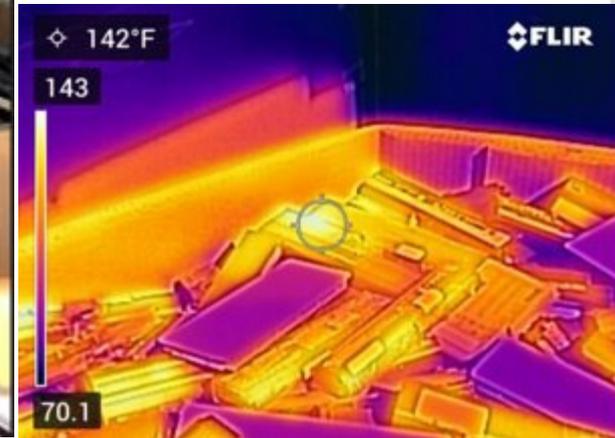
Port – L.A. Long Beach – March 4, 2022



Port – L.A. Long Beach – March 4, 2022



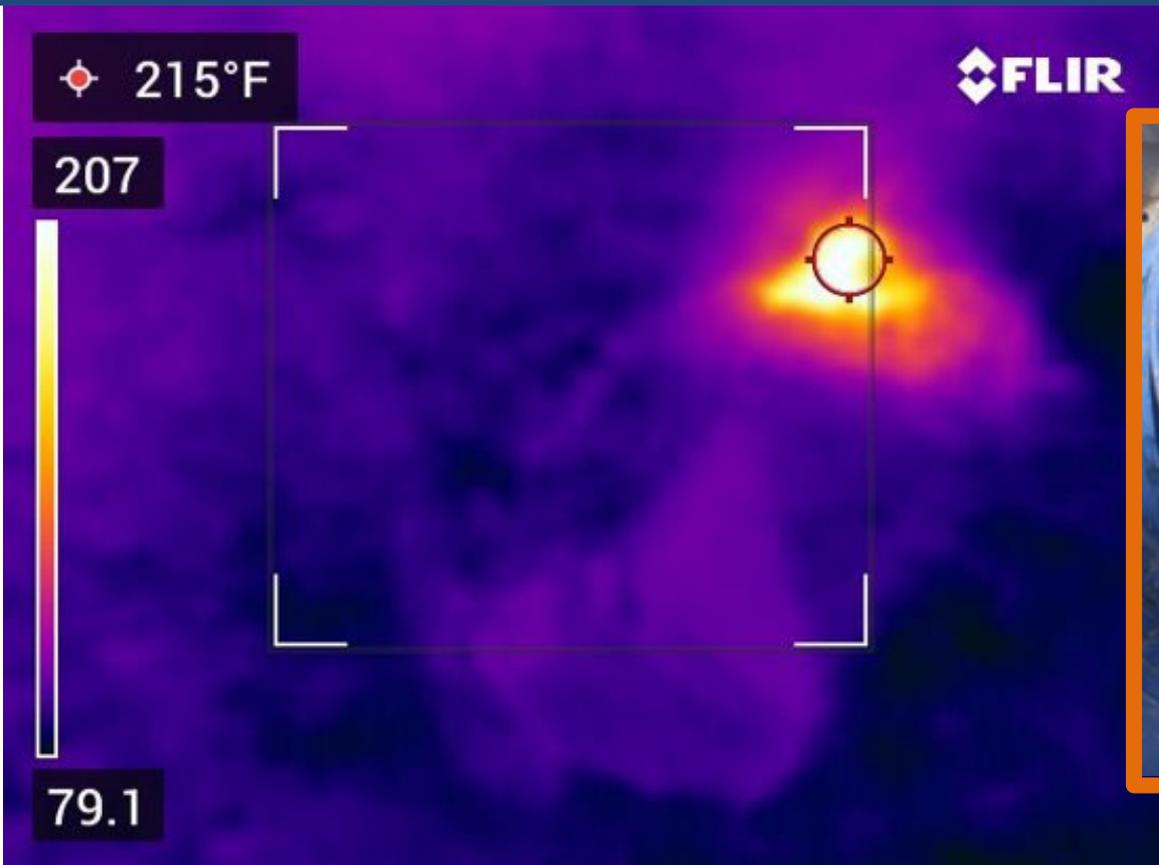
Container of undeclared li batteries involved associated with the previous container contains laptop batteries.



International Import Shipment Madison, IL – August 10, 2022



International Import Shipment Madison, IL – August 10, 2022



Hurricanes – September 28, 2022



Hundreds of EV's and thousands of devices exposed to sea water and other forces associated with hurricanes.

Photos provided by Sanibel Fire Department



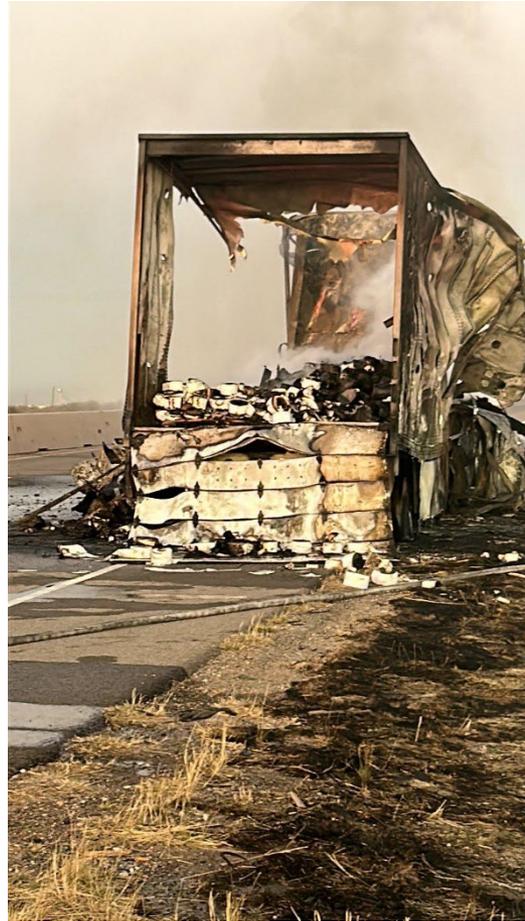
Hurricanes – September 28, 2022



Photos provided by Sanibel Fire Department



Monahan, TX – February 23, 2023

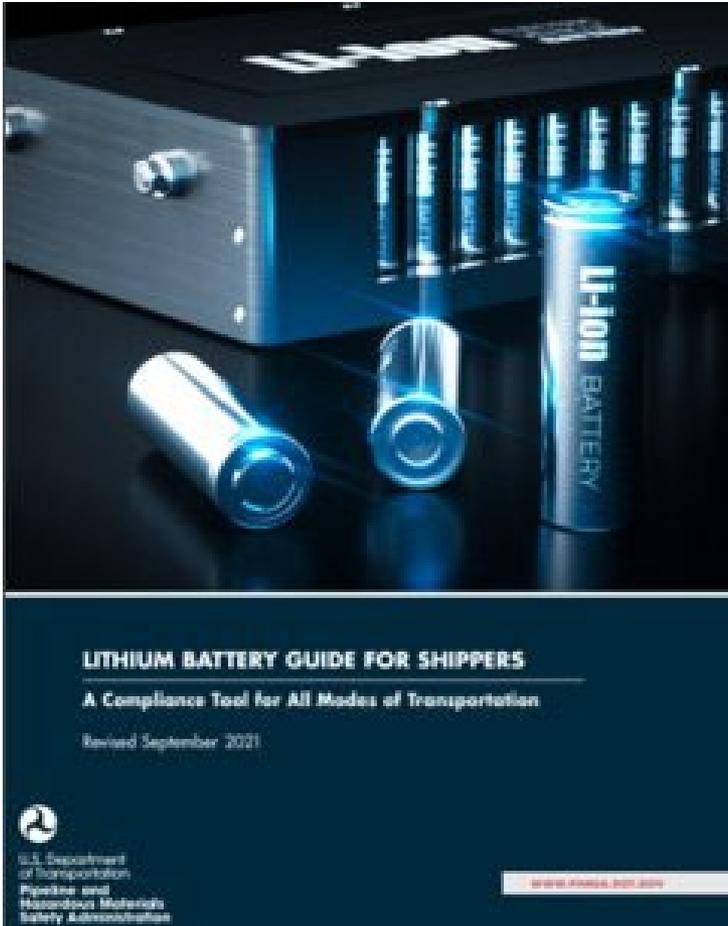


Review

- Poor handling in use, collection and storage at end-of-life
- Poor handling and packaging methods in transportation
- Frustrated shipping is occurring because there is no way to see damage outside of clear physical evidence.
- End of life battery handling by industry is inconsistent.



PHMSA resources . . .



- Scenario-based shipping guides based on battery type, size, and configuration
- Recorded webinar on guide use available on YouTube



PHMSA Web Link



PHMSA Safety Advisory

Safety Advisory Notice for the Transportation of Lithium Batteries for Disposal or Recycling



U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

1200 New Jersey Avenue, SE
Washington, DC 20590

Safety Advisory Notice for the Disposal and Recycling of
Lithium Batteries in Commercial Transportation
U.S. Department of Transportation
Pipeline and Hazardous Materials Safety Administration
Office of Hazardous Materials Safety

Why PHMSA Wrote this Safety Advisory Notice

PHMSA wants to increase the public's overall awareness about the dangers related to shipping lithium batteries for recycling or disposal. Lithium batteries — including both lithium metal and lithium ion batteries — can cause a fire, whether they are new, used,

Link to Advisory



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Presenter Contact Information

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Presentation Evaluation

TELL US HOW WE DID!

Scan the QR code or go to the below link and tell us how we can improve!



<https://www.surveymonkey.com/r/5DBGHFW>

