



Maryland
Department of
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Office of Emergency Preparedness and Response

Emergency Response Division

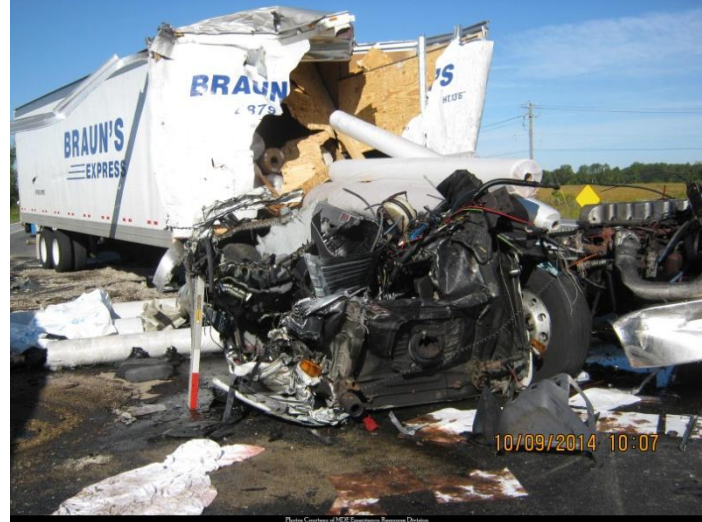
**Our mission is to Protect Human
Health and the Environment**



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MDE is the lead state agency in response to:





How?

- **State Environmental Regulatory Agency**
- **Lead State Agency for HAZMAT Response**
- **Lead State Agency for Radiation Emergency Response**
- **State On-Scene Coordinator under the National Response Plan**
- **Support Local Responders**



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MDE Response Capability

- **Hazardous Materials Response**
- **Oil Spill Response**
- **Radiological Emergency Response**
- **Technical Consultation and Assistance**



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OEPR Staffing

- **Director, Office of Emergency Preparedness & Response**
- **Division Chief, Emergency Response & Preparedness**
- **7 Hazardous Material Specialists**
 - (1) Haz-Mat Response Supervisors**
 - (6) Haz-Mat Response Officer IIs**
- **2 Radiological Health Physicists**
- **6 Hazardous Materials Transportation Compliance Specialists**



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Spill Reports & Response Statistics

	<u>Reports Of Spills Taken</u>	<u>ERD Responses</u>
FY 2016	3251	441
FY 2015	2752	492
FY 2014	2674	537
FY 2013	3547	937
FY 2012	1926	428
FY 2011	2079	463
FY 2010	2680	577
FY 2009	2812	586
FY 2008	3143	738
FY 2007	3846	835
FY 2006	3397	661
FY 2005	3273	512
FY 2004	3784	698



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Equipment Capabilities



Light Response Vehicles



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Heavy Response Vehicles



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Specialty Vehicle



Photos by MDE Emergency Response Division



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Containment Boom Trailers



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Special Hazards Operations Trailer



Corrosive Transfer System



- **2-2" Kynar double diaphragm pumps**
- **300' Teflon lined 2" hose with all Kynar accessories**
- **3-stage Air Purification System**
- **250 cfm Air Compressor**
- **Soda Ash**
- **Stainless Steel 407 off-loaders**



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4 Local Spill Trailers



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Bobcat



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Watercraft



- **(2) 22' Boston Whaler Oil Spill Response Boats**
- **(1) 25' Maritime Voyager Oil Spill Response Boat**
- **(1) 25' Boston Whaler Oil Spill Response Boat**
- **(1) 14' Jon boat**



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Specialty Equipment

Remote Drum Punch



Specialty Equipment

Elemental Mercury Responses



Specialty Equipment

Chlorine Emergencies



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Specialty Equipment

Propane Flare (3/4, 1 & 2 inch)



Courtesy of MDE Emergency Response Division

Specialty Equipment



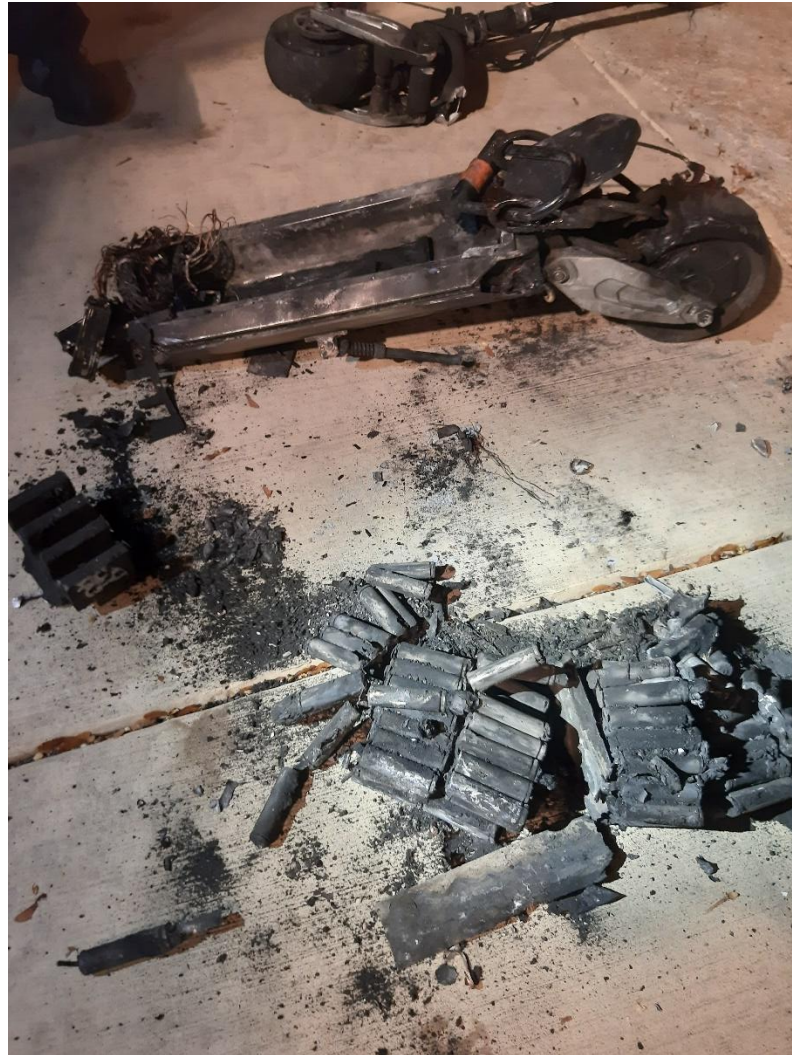
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Specialty Equipment



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Specialty Equipment



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MDE Capabilities



Instruments and Mitigation

- **Photoionization Detectors**
- **4-Gas Air Monitors – LEL, O², H²S, CO**
- **Air Sampling Tubes**
- **Drum Sampling Equipment**
- **Mercury Vapor Detectors (Lumex & Jerome) and Vacs**
- **WMD Detection Equipment**
- **Chlorine A kit**
- **2 each Chlorine B, C kits**
- **2 Chlorine Cylinder Recovery Vessels**



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Instruments and Mitigation

- **Remote Drum Punch**
- **Sorbents and Oil Containment Boom**
- **Portable Infrared Spectrometer (TravellIR & HazMatID)**
- **Raman Spectroscopy (Ahura First Defender & RespondeR RCI)**
- **3 Midland Tankcar Emergency Response Kits**

Logistical Support to Local Jurisdictions

Supply Local Fire Departments with:

- Particulate Absorbent**
- Sorbent pads, boom and sweep**
- Recovery Drums**



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Communications

- **700/800 Mhz Portable Radios (Interoperable with Local Jurisdictions)**
- **Marine VHF**



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Incidents



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Where



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Residential Incidents



Photos Courtesy of MDE Emergency Response Division



Courtesy of MDE Emergency Response Division



Photos Courtesy of MDE Emergency Response Division



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Fixed Facility Incidents

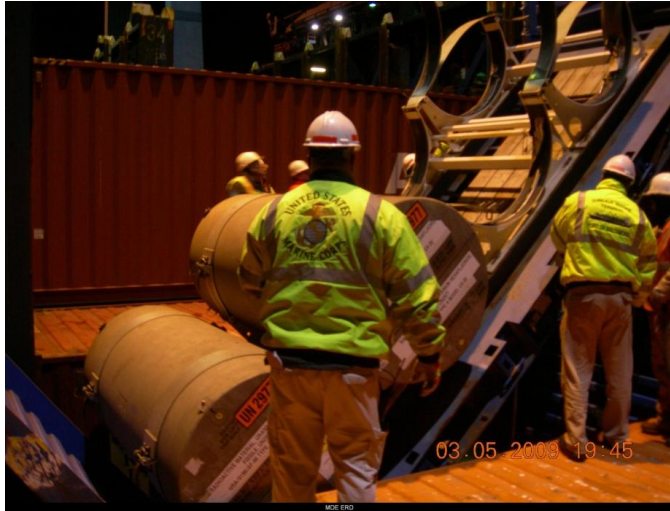


Photos by MDE Emergency Response Division



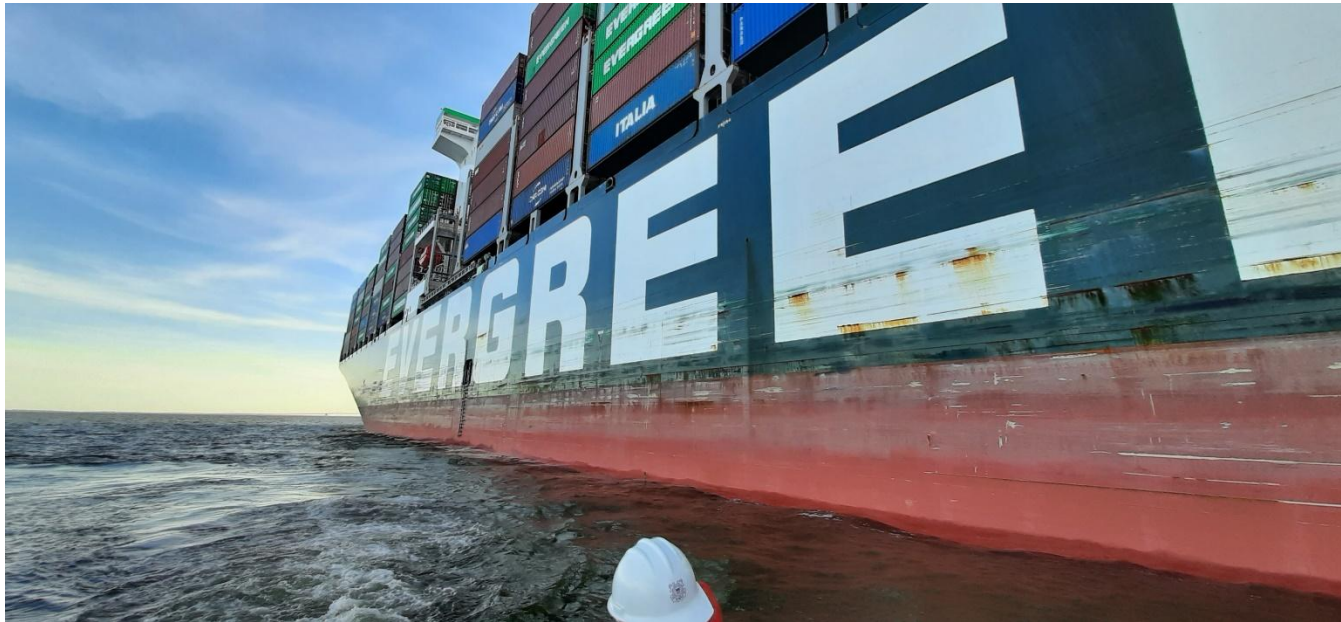
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Maritime/Terminal Incidents



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Shipboard Incidents



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Highway Transportation Incidents



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Photos Courtesy of MDE Emergency Response Division

Highway Transportation Incidents



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Leaking Drum of Acid



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Overturned Diesel Tanker



Photos by MDE Emergency Response Division



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Tank Truck Transfer Operation



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Chemical Tanker Product Transfer



Photo Courtesy Of MDE-ERD



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Overtaken Asphalt Tanker



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Susquehanna River and Chesapeake Bay



Photos by MDE Emergency Response Division



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Rail Transportation Incidents



(Baltimore Sun photo)



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Rail Transportation Incidents



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Pipeline Incidents



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Propane Incidents



Photos by MDE E



Photos by MDE Emergency Response Division



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Airport Incidents



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Aircraft Incidents



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Weather related

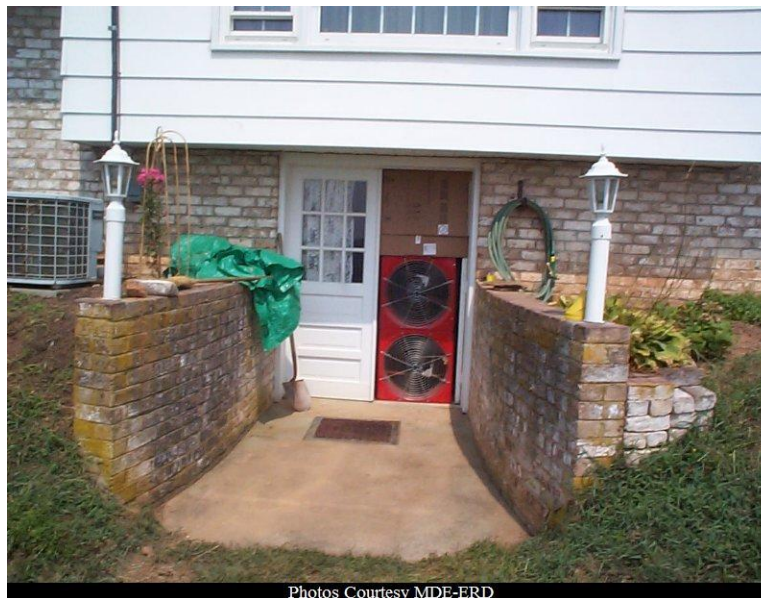
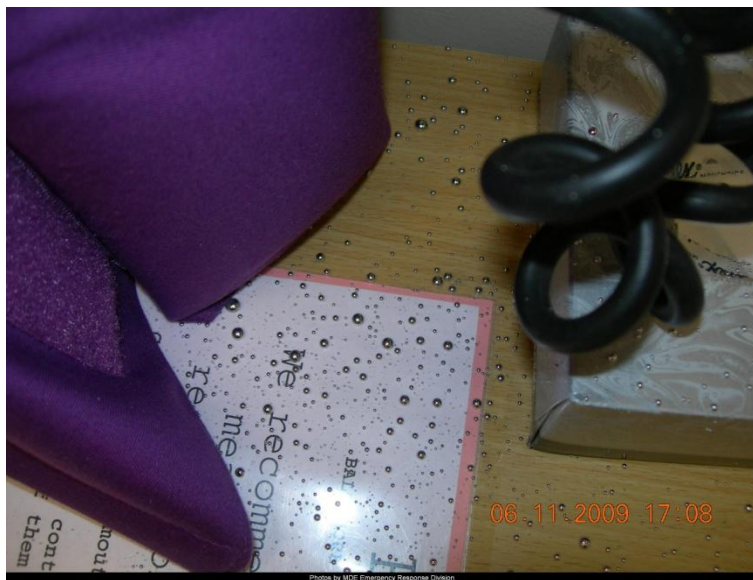


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Midnight Dumping

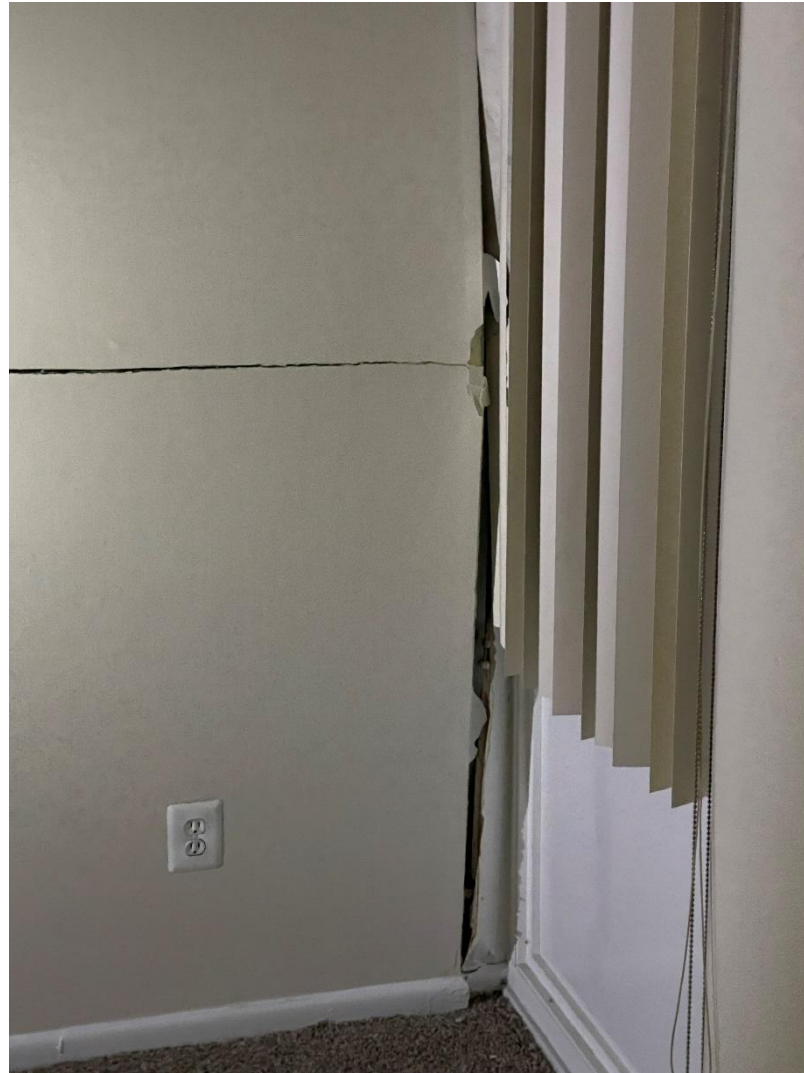


Mercury Spills



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Montgomery County Scooter Fire



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Montgomery County PPV Fan Battery

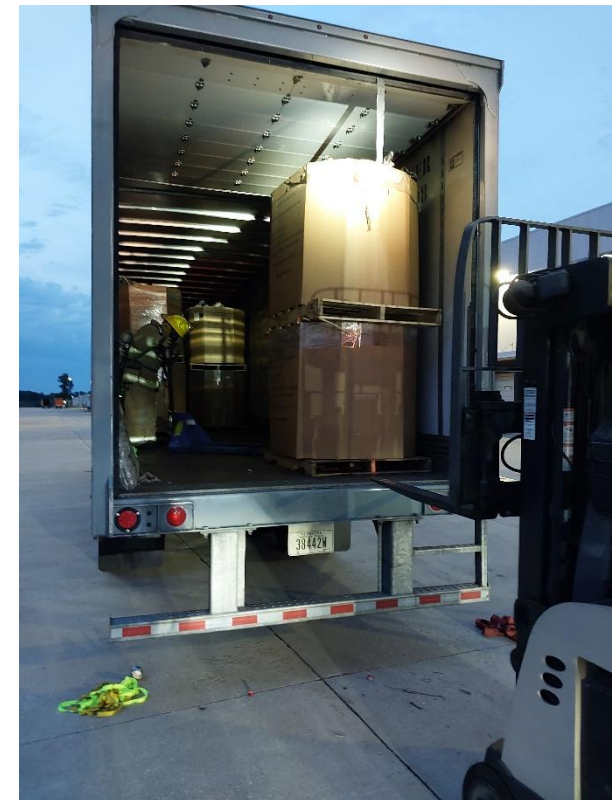
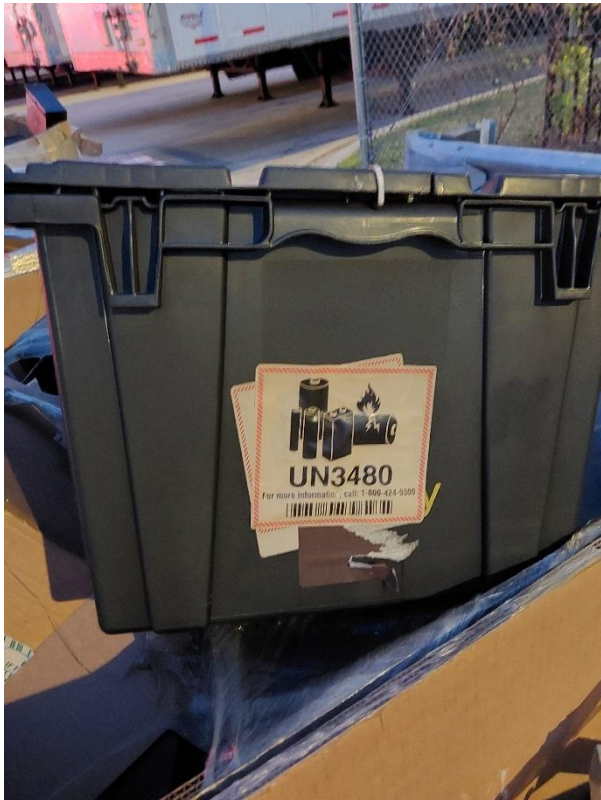


Laptop Battery Fire



Consumer Electronics (DDR)

- Damaged, Defective, Return (DDR) Merchandise



E-Scooter Fires



EV Fires



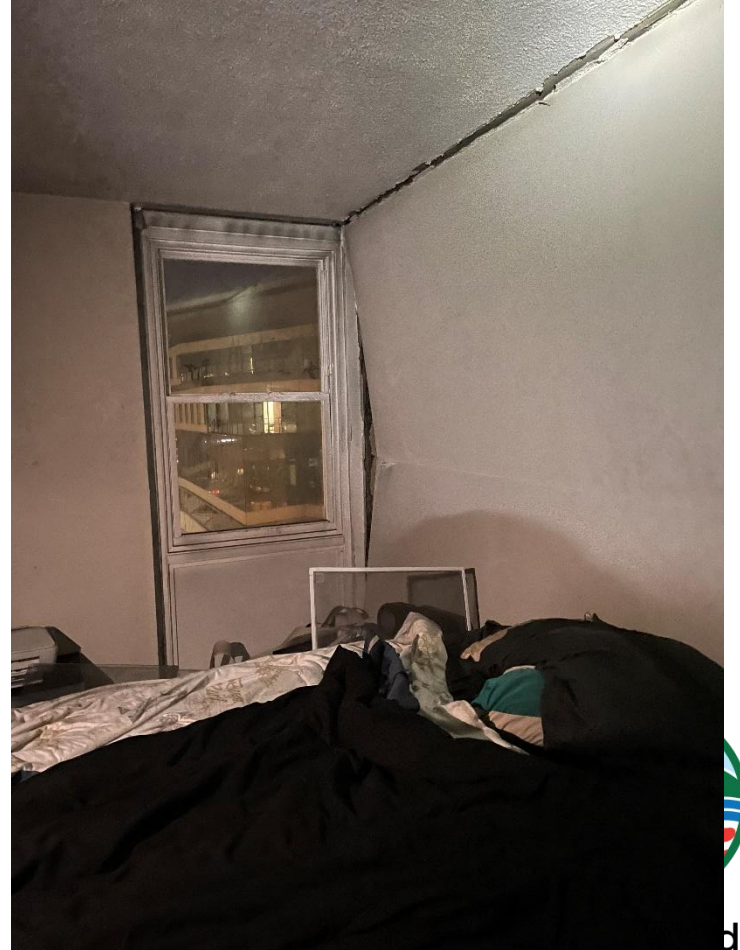
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EV Fires



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Montgomery County Scooter Fire



Montgomery County Scooter Fire



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Lithium Ion Battery Incidents



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Training & Outreach



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866-633-4686 (24 hrs)



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866-633-4686 (24 hrs)

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Emergency Response Division



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www.mde.state.md.us



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Thank You



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