

CSX Train Derailment – Hyndman, PA

Multiagency Response Overview Regional Response Team Meeting November 15, 2017

Tom Wolf, Governor

Secretary Patrick McDonnell

Morning 8-2-17

- ~0500 CSX train consisting of 5 locomotives and 178 cars derails in Hyndman Borough, Bedford County PA
- ~0710 Southcentral ER hotline notified
- ~0730 SCRO staff en route to accident site
- PEMA CRCC activated at 0910



Morning 8-2-17

- <u>Initial Report</u>:
 - 12 cars derailed
 - 2 breached
 - LPG venting and on fire
 - Liquid Asphalt leaking and on fire
 - ~500 residents evacuated within ½ mile



One Mile Radius Around Derailment

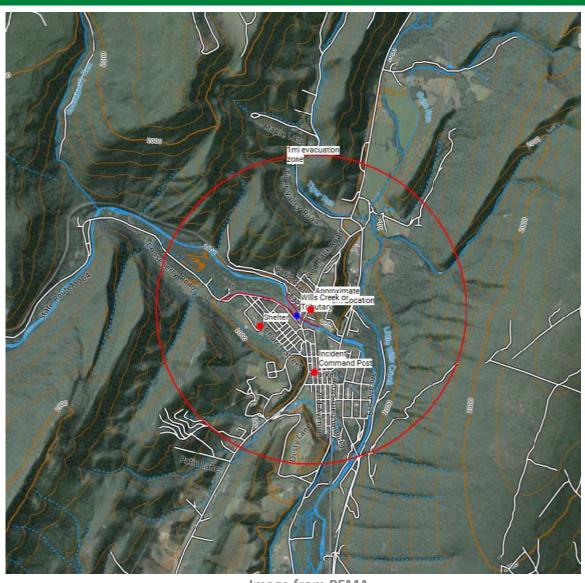
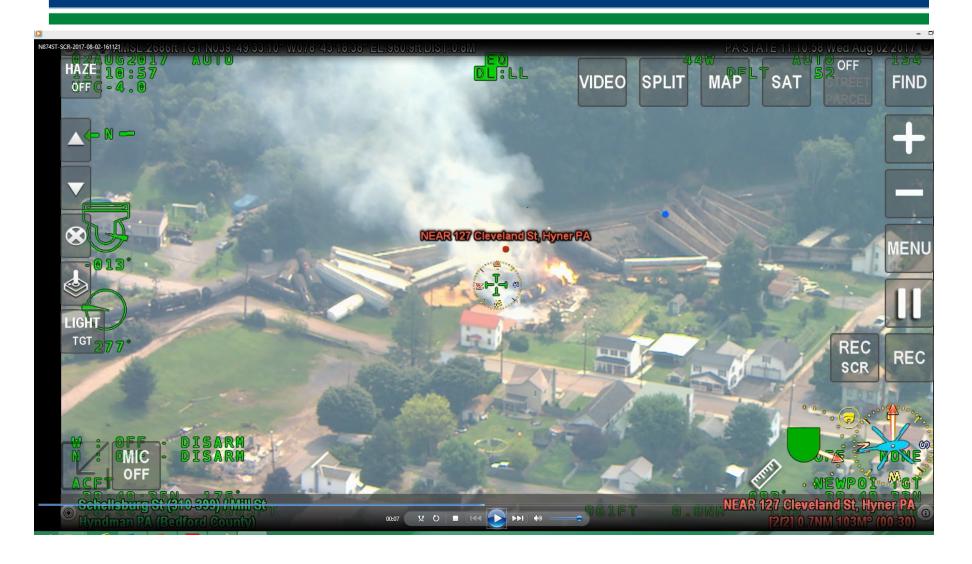


Image from PEMA

Morning Concerns

- Evacuation zone not sufficient at ½ mile
 - Potential for BLEVE
- 33 cars derailed and not 12
 - 16 cars listed as hazmat on consist including two additional LPG cars next to the one on fire
- Molten Sulfur on fire and not asphalt

Derailment Site 8-2-17



Derailment Site 8-2-17



Afternoon 8-2-17

- Received modeling from Interagency Modeling and Atmospheric Assessment Center (IMAAC)
- Evacuation zone pushed to 1 mile and command post and shelter moved
 - ~1000 residents impacted
- Confirmed molten sulfur car on fire pennsyl

Afternoon 8-2-17

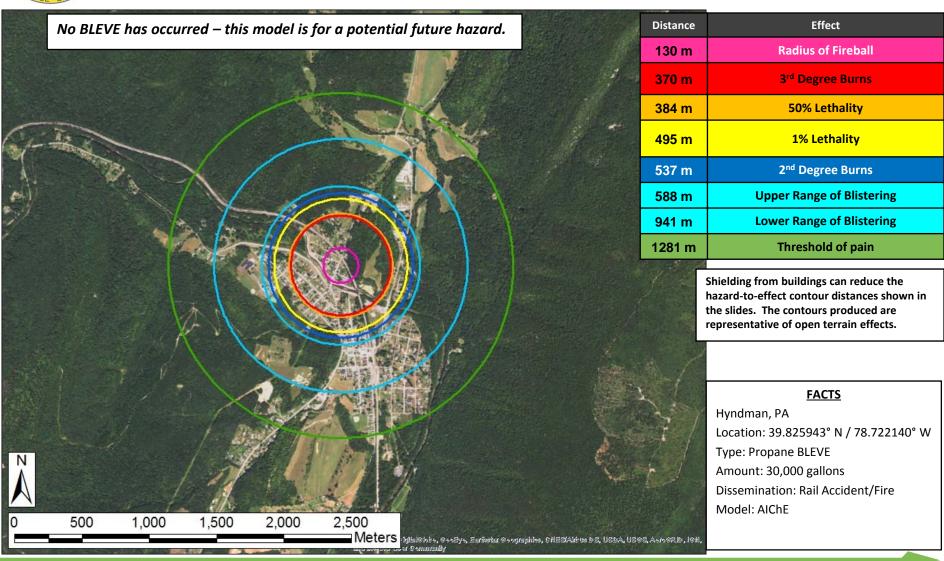
- Started coordination with ATSDR and DOH
- Worked with CSX to identify air monitoring resources for H2S and SO2
- Confirmed that public water supply not capable of supporting fire suppression







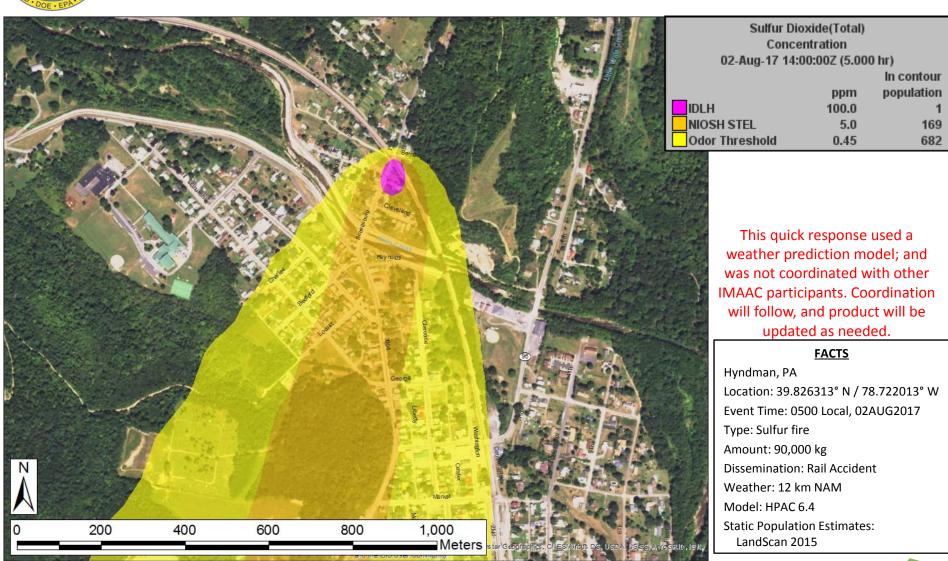
Potential BLEVE (30,000 gallons propane) – Thermal Effects







Sulfur Dioxide – 1400Z (1000 Local) – Near View – Initial Response



State Police flyover 8-2-17





8-2-17 Overnight

- LPG car venting/burning overnight
- Prepare for monitoring stations
- Staff CRCC



Burning LPG 8-3-17



8-3-17 Morning

- LPG car still burning
 - Volume expected to be minimal with no BELVE potential
- CSX supplied Area Rae's w/ H2S and SO2 sensors
- Began re-entry planning



Derailment Site 8-3-17



8-3-17 **Evening**

- Air monitoring conference call
 - CSX DOH DEP ATSDR EPA
- Review air sampling plan
 - Fixed monitors + roving monitors w/ wind direction
- Discussion on action levels for H2S and SO2

for re-entry



8-3-17 Challenges

- Reunification of evacuees with pets and medications left behind
- Decision on appropriate action levels of SO2
 - AEGL vs more conservative acute risk level
- Detection limits of available meters and potential sampling



8-3-17 Overnight

- LPG car venting w/ ~1500-2000 gallons left
 - Attempt to extinguish fire by rotating car to empty liquid LPG
- Sampling capability for SO2?
- Prepare for DOH (ATSDR) / DEP meeting with 'unified command' onsite on 8/4/17



8-4-17

- Onsite Unified Command meeting with state agencies
- Fires out for both cars (molten sulfur and LPG)
- Cleanup operations started for grain, asphalt and other cars not involved in the fire

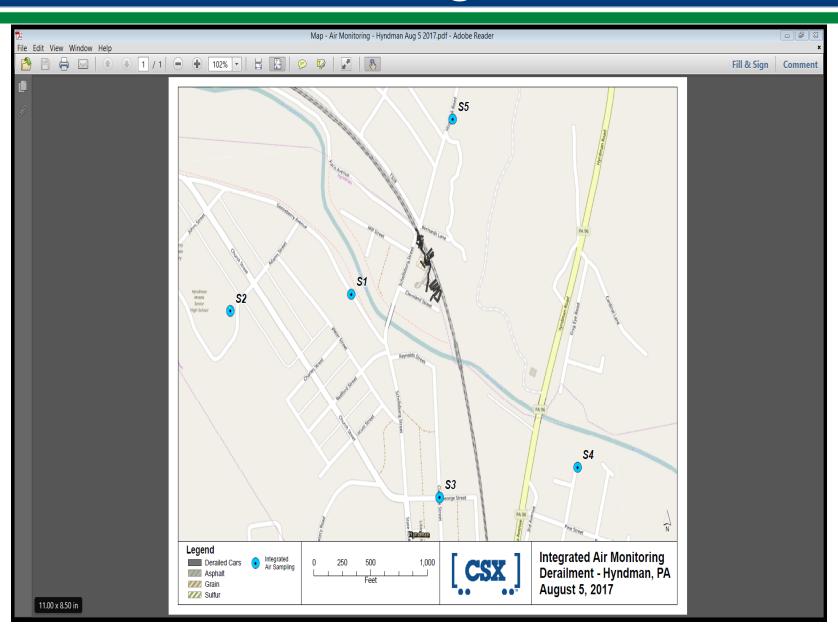


8-4-17 Challenges

- Approvals for waste materials going to landfills
 - Paperwork for acceptance / landfill permitting
- Communications / terms used between
 Commonwealth agencies and CSX staff
- Continued discussion on reentry air monitoring and messaging to public



Air Monitoring Locations



8-5-17

- Cleanup operations underway to remove hazardous materials
- Development of citizen fact sheets for contaminants
- Public messaging discussion w/ DOH / DEP /
 ATSDR with respect to press release and CSX
- Residents allowed in at noon



Cleanup as of 8-9-17

- Air monitoring continued until 8-16-17
- Cleanup of cars and property continued for several weeks
- Several AAR's at local and Commonwealth level





Cleanup as of 8-9-17









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