Federal Requirements

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Hazardous Liquid and Gas Transmission Pipelines
Pipelines as of October 2010
What is in the Pipeline?

Potentially large volumes of:

- Natural Gas
- Crude Oil
- Refined Petroleum Products
  - Gasoline, Jet Fuels, Diesel Fuels
- Highly Volatile Liquids
  - Propane
  - Anhydrous Ammonia
  - Carbon Dioxide
Regulations Are Designed To...

- To keep product in the pipeline!
  - Build new lines safely;
  - Maintain pipeline integrity;
  - Keep people from digging into pipelines
    - Line markers
    - Call Before You Dig Programs – 811
    - Public Awareness Programs

Know what's below. Call before you dig.
Regulations Are Designed To...

- Prepare for pipeline emergencies, including:
  - Emergency response plans focused on protecting people and the environment.
  - Educating/informing everyone that could be impacted by a pipeline emergency;
- Public
  - Information to help people recognize and safely react during an emergency situation
- Emergency Responders and Local Officials
  - Information to safely respond
  - Coordinating preplanned responses/drills
San Bruno, CA
September 2010
Philadelphia, PA
January 19, 2011
Allentown, PA
February 2011
Potential New Requirements?

- Increased leak detection?
- Automatic/Remote controlled valves?
- More pressure testing?
- Repair, rehabilitation, requalification or replacement of high risk pipeline segments?
- ???
A Few Specific Requirements

• Natural gas pipeline operators are required to:
  – **Establish and maintain liaison with appropriate fire, police, and other public officials to:**
    • Learn the responsibility and resources of each government organization that may respond to a gas pipeline emergency;
    • Acquaint the officials with the operator’s ability in responding to a gas pipeline emergency;
    • Plan how the operator and officials can engage in mutual assistance to minimize hazards to life and property.
A Few Specific Requirements

- Hazardous liquid pipeline operators are required to:
  - Establish and maintain liaison with appropriate fire, police, and other public officials to:
  - Having personnel, equipment, instruments, tools, and material available as needed at the scene of an emergency.
  - Notifying fire, police, and other appropriate public officials of hazardous liquid or carbon dioxide pipeline emergencies and coordinating with them preplanned and actual responses during an emergency, including additional precautions necessary for an emergency involving a pipeline system transporting a highly volatile liquid.
Communications and Planning

- How can we improve communications between operators and emergency responders? (Breakout sessions, TRB study)

- What information, training and tools do emergency responders need to safely and effectively respond to pipeline emergencies?
  - Emergencies 2.0 (training)
  - Maps