



U. S. Department of Transportation

Pipeline and Hazardous Materials
Safety Administration

www.dot.gov

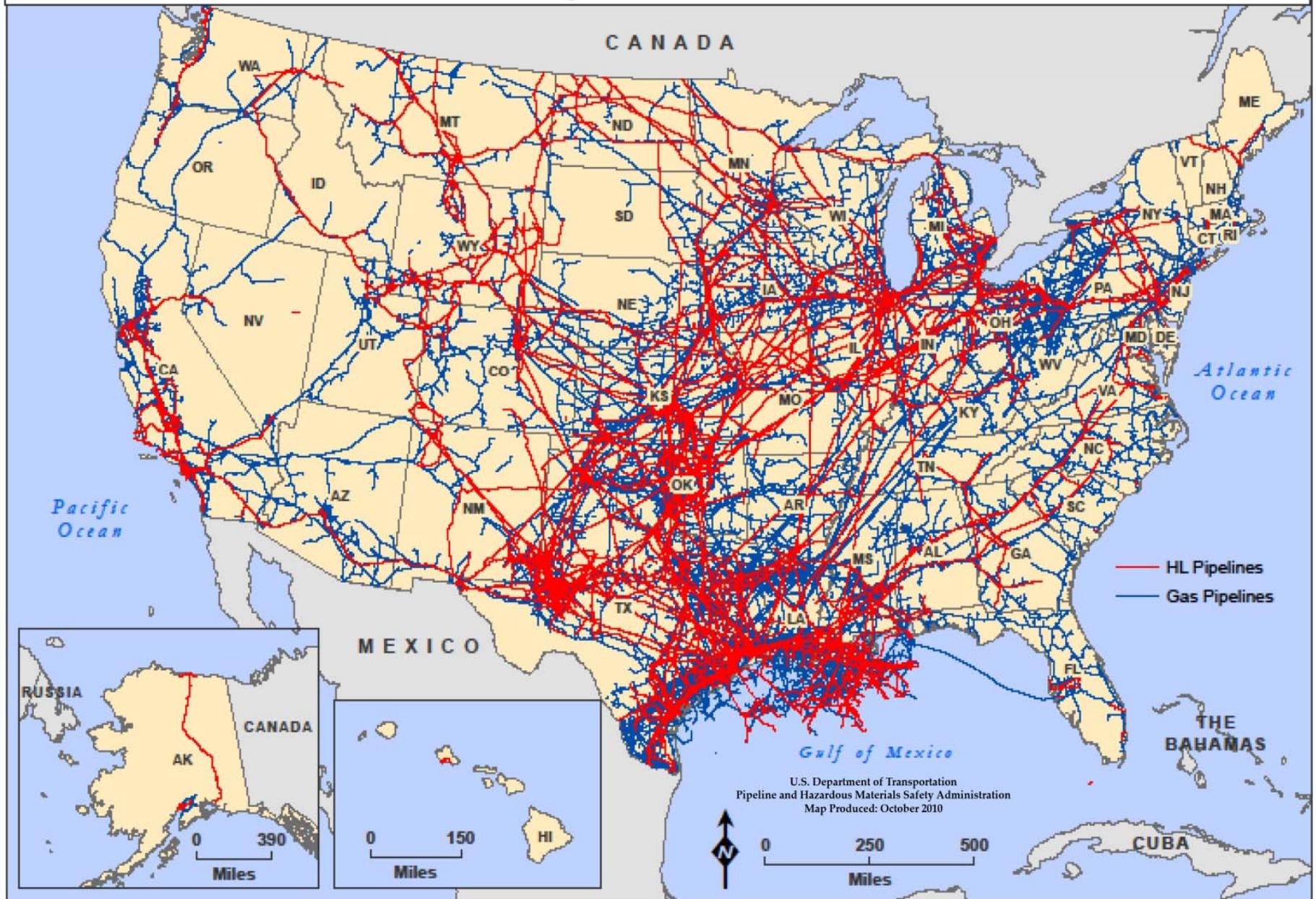


Federal Requirements

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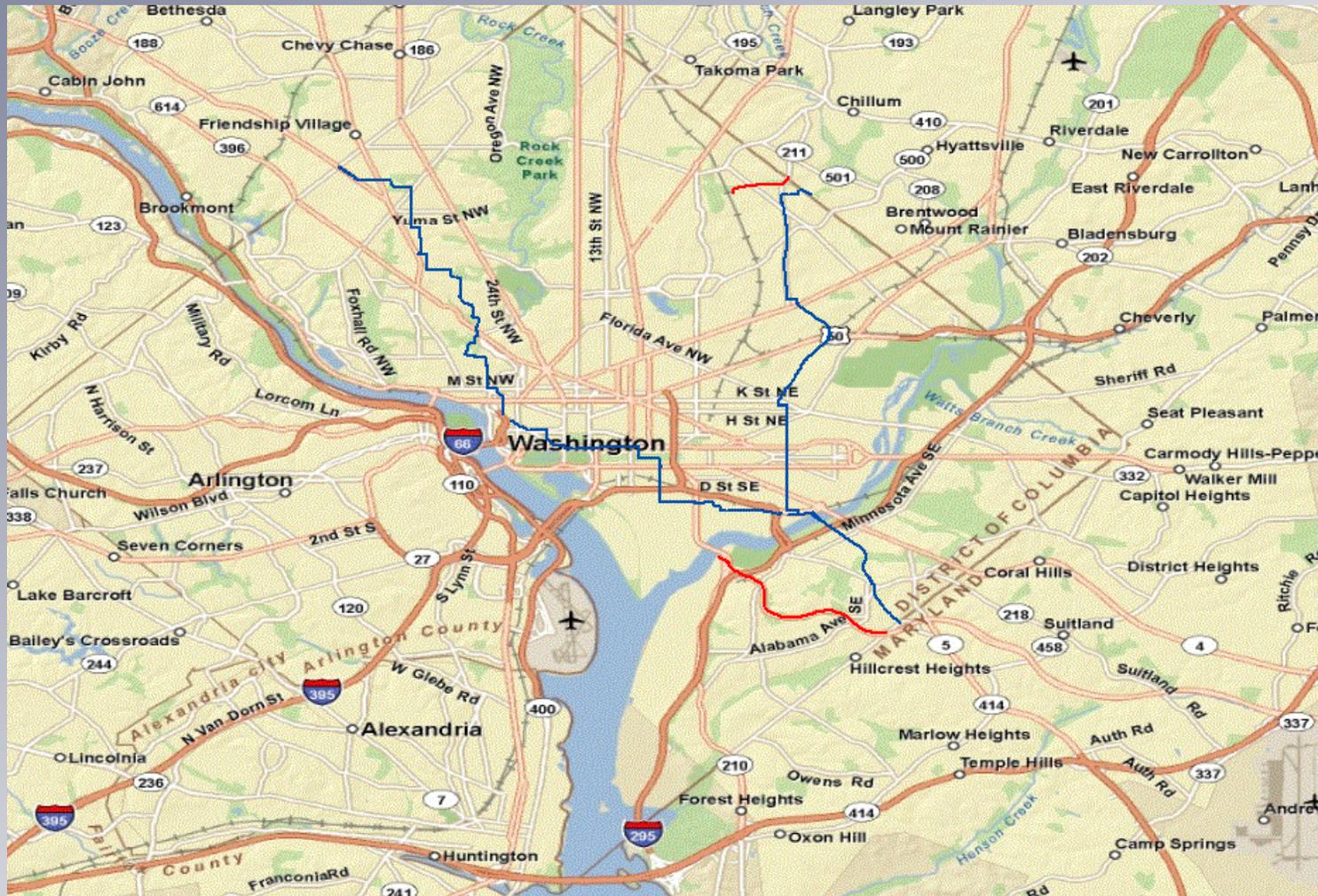
Hazardous Liquid and Gas Transmission Pipelines

Pipelines as of October 2010





<https://www.npms.phmsa.dot.gov/>







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...



**Know what's below.
Call before you dig.**

- 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



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



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