Pipeline and Hazardous Materials Safety Administration (PHMSA)
Pipeline Emergency Responder Initiative (PERI)

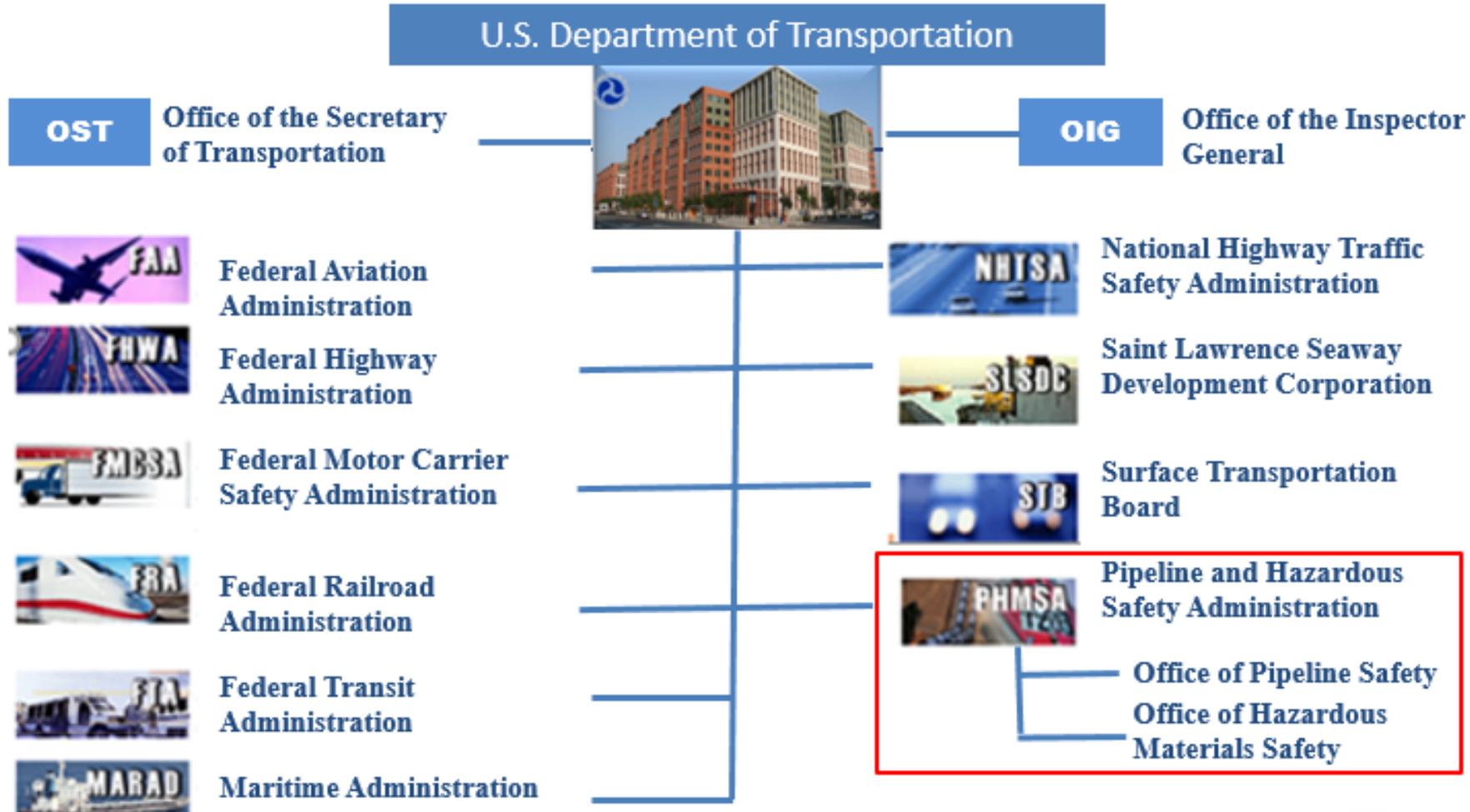**February 3, 2023**   **Round Rock, TX**

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

PHMSA: Your Safety is Our Mission

Who is PHMSA?

U.S. Department of Transportation

| OST | Office of the Secretary of Transportation |
| OIG | Office of the Inspector General |

FAA Federal Aviation Administration

FHWA Federal Highway Administration

FMCSA Federal Motor Carrier Safety Administration

FRA Federal Railroad Administration

FTA Federal Transit Administration

MARAD Maritime Administration

NHTSA National Highway Traffic Safety Administration

SLSDC Saint Lawrence Seaway Development Corporation

STB Surface Transportation Board

PHMSA Pipeline and Hazardous Safety Administration
- Office of Pipeline Safety
- Office of Hazardous Materials Safety

PHMSA: Your Safety is Our Mission

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

PHMSA performs its mission through two primary safety programs:

Office of Pipeline Safety (OPS)

Pipelines transport and supply more than two thirds of the fuel used to heat, cool, and operate American homes, cars, and businesses. It maintains oversight over 3.3 million miles of regulated pipelines.

Office of Hazardous Materials Safety (OHMS)

OHMS oversees the safe and secure shipment of close to one million daily movements of hazardous materials carried by highway, rail, vessel, and air.

These materials are essential to the American economy for use in farming, medical applications, manufacturing, mining, and other industrial processes.

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

PHMSA: Your Safety is Our Mission

Mission

To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives.

PHMSA By the Numbers

3.3 Million	1.2 Million	16,700	1.6 Billion	64%
Miles of Regulated Pipelines	Daily Shipments of Hazardous Materials	Underground Natural Gas Storage Wells	Tons of Hazardous Materials Shipped Annually by All Modes	Of U.S. Energy Commodities Transported by Pipeline

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

PHMSA: Your Safety is Our Mission

Our Focus

Inspection & Enforcement

Inspect pipeline facilities to determine compliance with our Federal Pipeline Safety Regulations and assess penalties to pipeline operators not in compliance.

Accident Investigation

Investigate accidents and incidents involving pipeline failures or releases and share lessons learned to prevent repeat failures.

Risk Analysis

Analyze safety performance, improve data quality

and analytical capabilities to identify, assess and manage safety risks

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

PHMSA: Your Safety is Our Mission

Our Tools

Grants

Award safety grants to support pipeline safety inspection, enforcement and outreach programs by states, territories, and non-profits.

Research & Development

Support research to improve pipeline safety.

Regulations & Standards

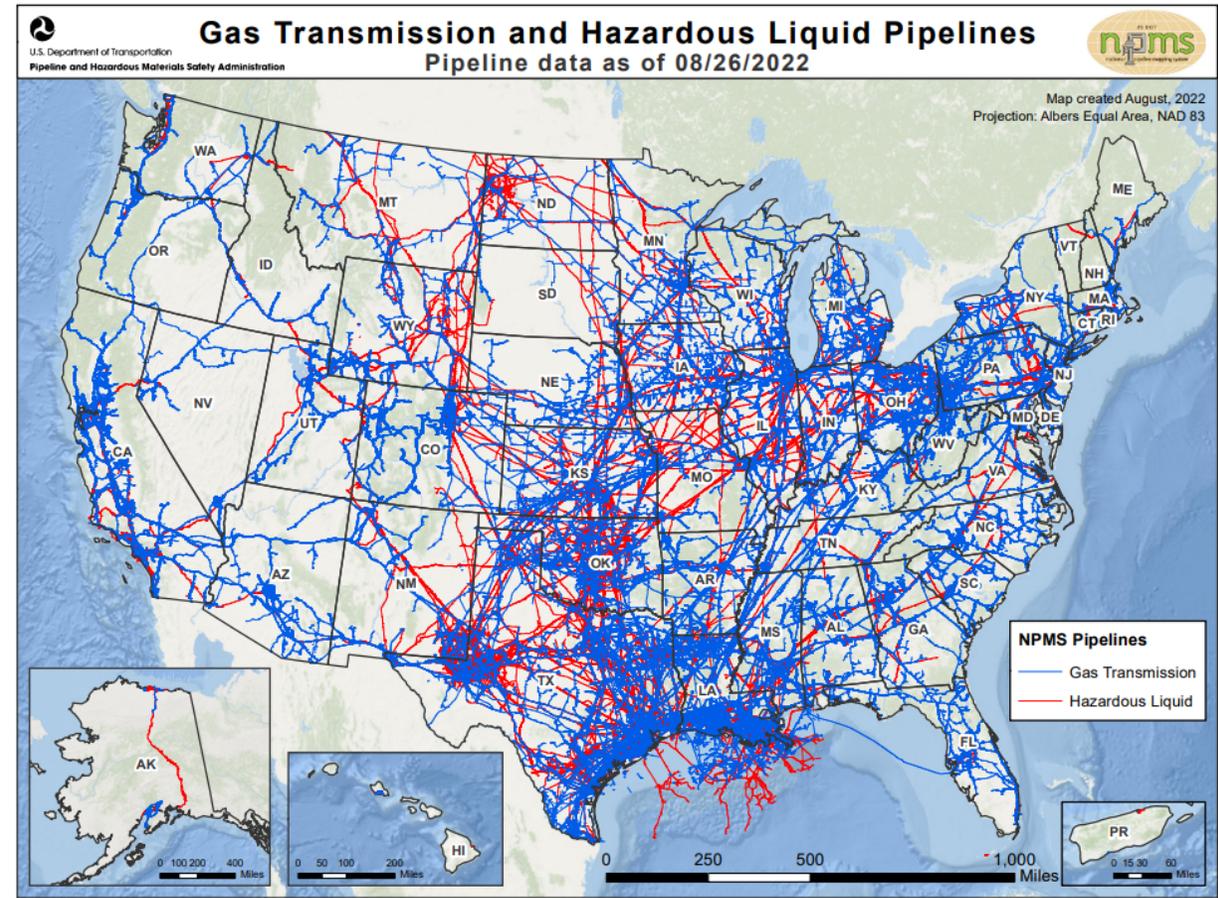Develop effective regulations and standards to advance pipeline safety.

Outreach

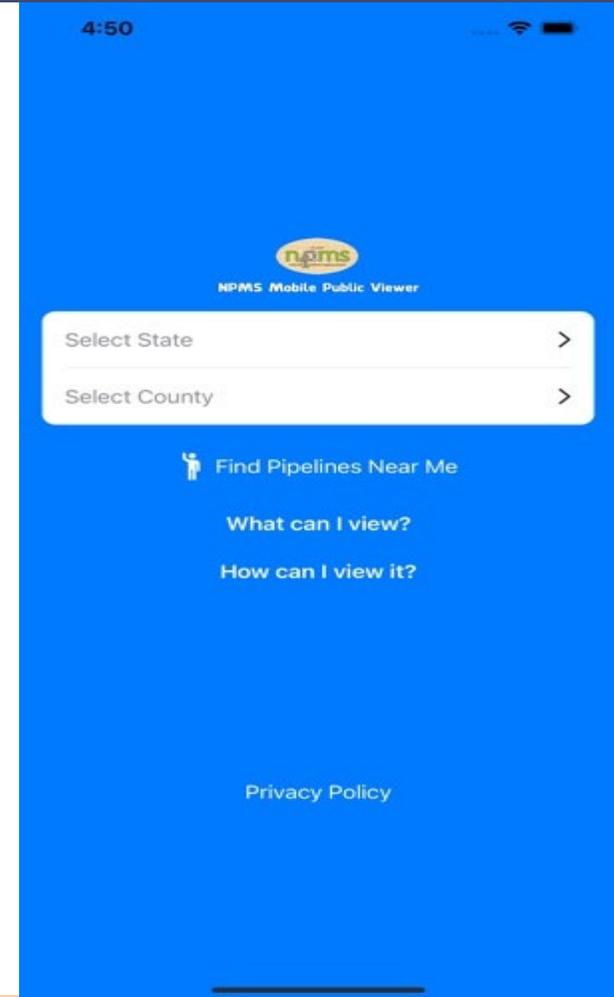Enhance safety and education through stakeholder outreach and engagement.

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

PHMSA: Your Safety is Our Mission

Transmission Pipeline Information

Gas Transmission and Hazardous Liquid Pipelines
Pipeline data as of 08/26/2022

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

PHMSA: Your Safety is Our Mission

- NPMS utilizes Geographic Information System (GIS), mapping data which shows location and attributes of gas transmission and hazardous liquid pipelines

- PHMSA regulations require annual updates from operators, making the NPMS the most accurate and complete pipeline mapping resource

- NPMS has also developed the NPMS Public Viewer iPhone app to allow the public to view hazardous liquid and gas transmission pipeline maps

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

PHMSA: Your Safety is Our Mission

How can I access the NPMS?

- **Public Map Viewer**
- **Public Map Viewer iPhone App**

- **Search Operator directory by state, county or ZIP where they operate pipelines**

- **Download national pipeline map or pipeline information spreadsheets**

GOVERNMENT OFFICIAL

PIPELINE OPERATOR

GENERAL PUBLIC

FIRST-TIME VISITOR

WARNING NATURAL GAS PIPELINE

- **Pipeline Information Management Mapping Application (PIMMA Plus)**

Image shows part of NPMS website homepage

www.npms.phmsa.dot.gov

Regulated Pipeline Systems - Texas

System Type	Texas
Hazardous Liquid (Crude, HVL, Refined PP)	76,712.0
Gas Transmission	47,495.2
Gas Gathering	6,140.51
Gas Distribution (Mains & Services)	168,195.4
Total	**298,543.11**
Underground Natural Gas Storage	
Facilities	31
Reservoirs	41
Total wells	492

PHMSA: Your Safety is Our Mission

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

Outreach Efforts

To provide communities with pipeline safety information to enhance public awareness and reduce excavation damage.

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

PHMSA: Your Safety is Our Mission

All Regulated Pipelines Have Something In Common

No matter the size, pressure, or operator,
all PHMSA-regulated pipelines carry

HAZARDOUS MATERIALS

that can pose serious risks
to people and the environment.

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

PHMSA: Your Safety is Our Mission

Pipeline Emergency Responders Initiative (PERI)

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

PHMSA: Your Safety is Our Mission
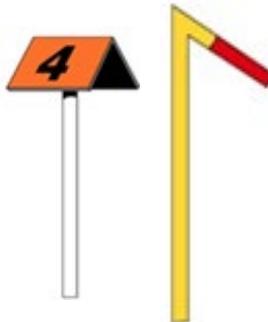
What is PERI?

Public-private partnership among emergency response organizations and pipeline operators to improve emergency response.

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

PHMSA: Your Safety is Our Mission

Regulatory Requirements

Title 49 Code of Federal Regulations (CFR) Parts 190 - 199:

Emergency Plans - 49 CFR §§192.615, 195.402 and 195.403

- Written procedures for notifying appropriate fire, police, and other public officials of gas and liquid pipeline emergencies

- Establish and maintain liaison with appropriate fire, police, and other public officials

Public Awareness - 49 CFR §§192.616 and 195.440

- Messages to emergency responders and public officials

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

PHMSA: Your Safety is Our Mission

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

PHMSA: Your Safety is Our Mission

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

PHMSA: Your Safety is Our Mission

Ruptured section of pipe

Earl Avenue

Crater with exposed gas pipe

Glenview Drive looking south

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

PHMSA: Your Safety is Our Mission

PERI Stakeholders

- Pipeline operators
- Fire service/emergency responders/Emergency Management
- Law enforcement
- Forestry Service
- Training colleges/academies
- 811 OneCall
- Local/State/Federal regulators
- Local/State/Federal resource agencies
- Etc.

✓Face to face interaction
✓"Seat at table"
✓Strengthening relationships
✓Forge new alliances

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

PHMSA: Your Safety is Our Mission

PERI Mission

To advance the ability of emergency responders to manage pipeline emergencies through improved training, cooperation, and communication.

PHMSA: Your Safety is Our Mission

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

What Do We Want to Accomplish with PERI?

- Enhance responders understanding of pipeline risks and hazards;

- Strengthen relations in the interest of public safety;

- Improve management of pipeline emergencies nationwide

PHMSA: Your Safety is Our Mission

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

Alternative Responder Training

- Pipeline emergency training

- Enhances credibility

- Maximizes ER participation

- Recognition of specific knowledge needs of responders

- Eliminates one-size-fits-all approach to training

fire-based training

PERI Goals

- Collaboration among operators/emergency response community
- Commonality state to state
- Promoting prevention of pipeline emergencies
- Enhancing operator public awareness outreach and emergency planning programs
- Safety management
- Sustainability

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

PHMSA: Your Safety is Our Mission

Pipeline Emergency Responders Initiative

Each group receives benefits, but all groups share a common goal
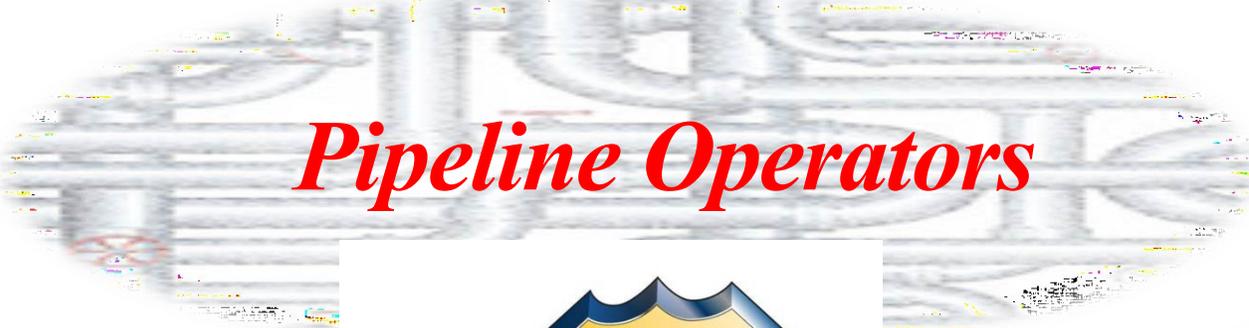
Pipeline Operators

PHMSA: Your Safety is Our Mission

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

Additional Information and Resources

PHMSA: Your Safety is Our Mission

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

Important Links

- **PHMSA, Office of Pipeline Safety**
  - www.phmsa.dot.gov/pipeline

Pipeline Emergency Responders Initiative
  - https://www.phmsa.dot.gov/pipeline/peri/pipeline-emergency-responders-initiative-peri-overview

- **Standards & Rulemaking**
  - http://www.phmsa.dot.gov/pipeline/regs

- **National Pipeline Mapping System**
  - www.npms.phmsa.dot.gov

- **PHMSA's Stakeholder Communications Site**
  - http://primis.phmsa.dot.gov/comm

- **Electronic Code of Federal Regulations (eCFR)**
  - www.ecfr.gov

- **For Federal Regulations (Official Version)**
  - www.regulations.gov

PERI
Pipeline Emergency
Responders Initiative

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

PHMSA: Your Safety is Our Mission

PHMSA Social Media

https://twitter.com/PHMSA_DOT

www.youtube.com/user/PHMSADOT

www.linkedin.com/company/pipeline-and-hazardous-materials-safety-administration

PHMSA: Your Safety is Our Mission

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

PHMSA: Your Safety is Our Mission

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

Questions?

James Prothro
Community Liaison – Southwest Region
Office of Pipeline Safety
(281) 786-9437
james.prothro@dot.gov

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

PHMSA: Your Safety is Our Mission