



Pipeline and Hazardous Materials Safety Administration Office of Pipeline Safety

General Update

The Pipeliners Association of Houston

January 9, 2023



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

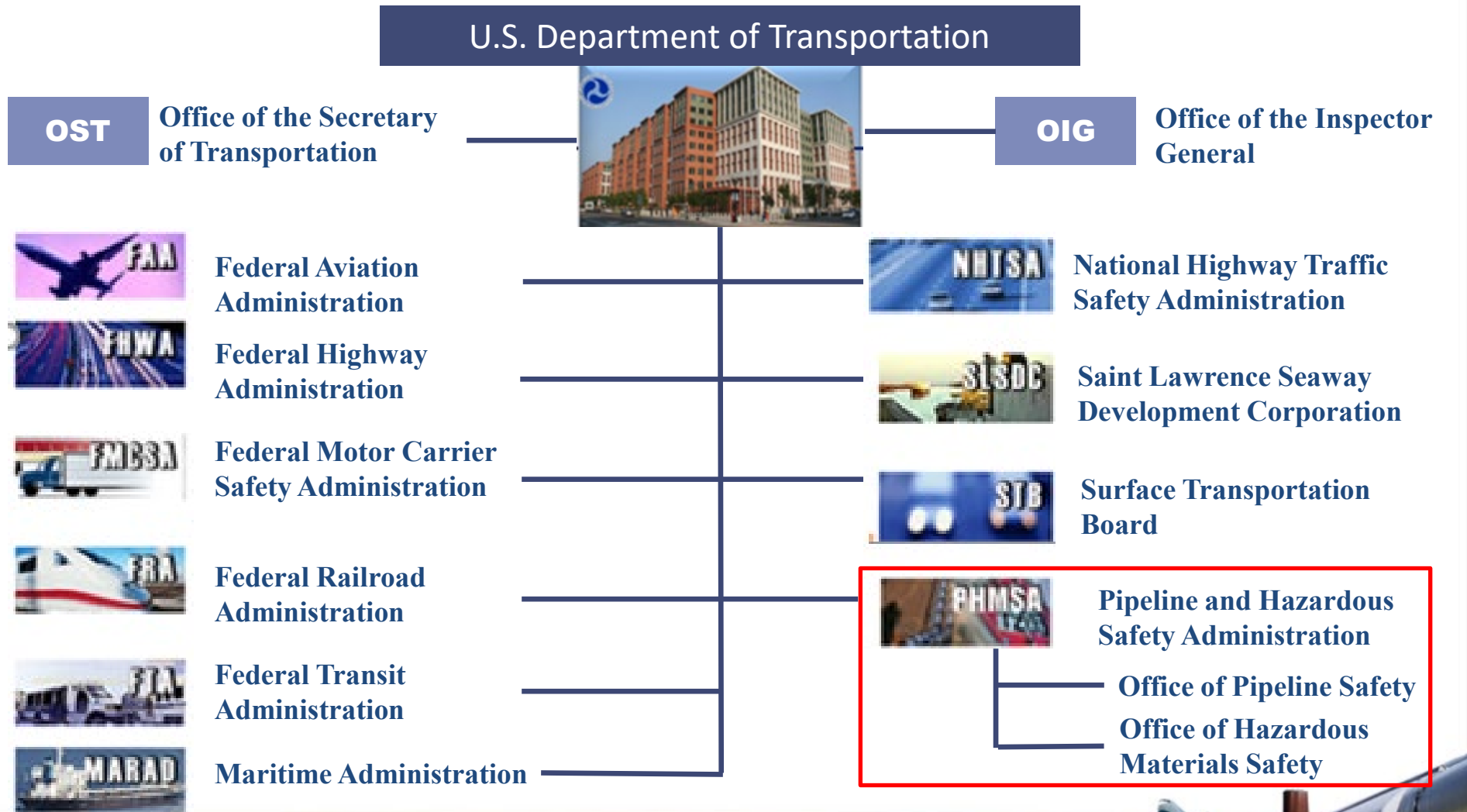
PHMSA: Your Safety is Our Mission



PHMSA Overview



Who is PHMSA?



PHMSA's 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.

To do this, the agency establishes national policy, sets and enforces standards, educates, and conducts research to prevent incidents.

We also work with the public and first responders to reduce consequences if an incident does occur.

PHMSA By the Numbers

3.3 Million

Miles of Regulated
Pipelines

1.2 Million

Daily Shipments of
Hazardous Materials

16,700

Underground Natural
Gas Storage
Wells

1.6 Billion

Tons of Hazardous
Materials Shipped
Annually by All
Modes

64%

Of U.S. Energy
Commodities
Transported by
Pipeline



What Does PHMSA Do?

- Develops and implements pipeline safety regulations
- Performs inspections and accident investigations
- Monitors and enforces compliance
- Sponsors and funds R&D Projects
- Conducts outreach with stakeholders
- Provides grants



What PHMSA Does Not Do

Don'ts

- Approve pipeline projects
- Approve pipeline routes (rights-of-way)
- Issue pipeline operating permits
- Regulate commercial or residential development along pipelines



OPS Priorities



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

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PHMSA: Your Safety is Our Mission



OPS Priorities

**Continuous
Improvement in
Pipeline Safety**



**Safety and
Environmental
Accountability**



People



**OPS National
Priorities**

**Effective Use of
Data and
Information**



Infrastructure of the Future Safety



OPS Priorities

Continuous Improvement in Pipeline Safety



- Improve pipeline safety by building upon lessons learned and proactively preventing future events
- Promote PSMS underpinned by a strong safety culture
- Promote **PHMSA Plus** internally
- Implement new policies, including rulemaking
- Augment PHMSA programs to address social and environmental justice



OPS Priorities

Safety and Environmental Accountability



OPS will maintain a high standard of accountability to protect the American people by preventing pipeline accidents and understanding that we each have a role in protecting lives and the environment.

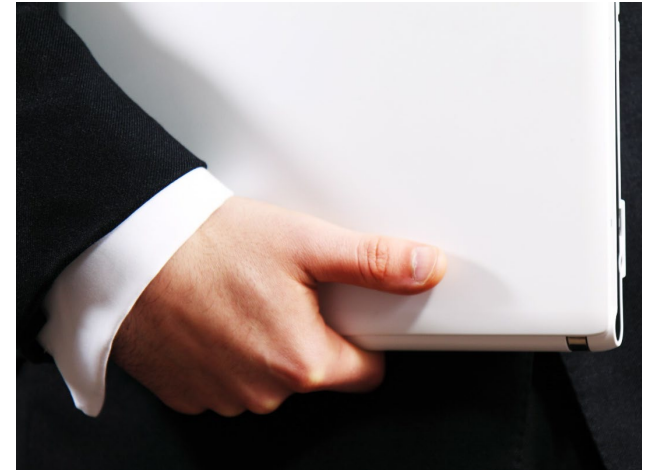


Reducing CO₂ Emissions?



OPS Priorities

People

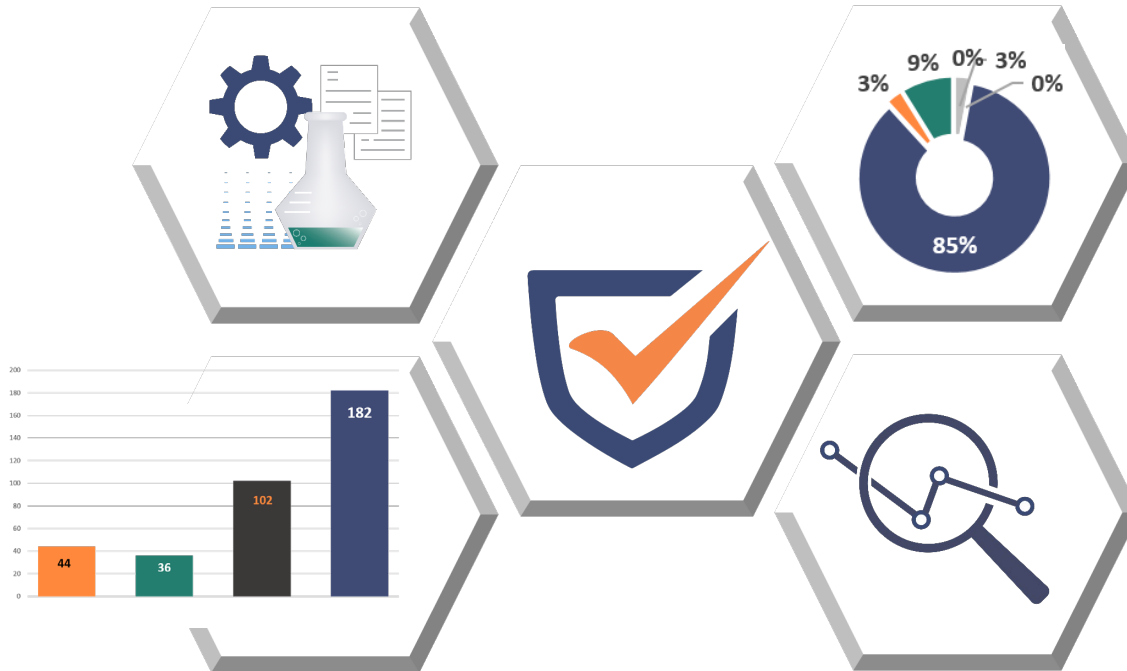


- Focus on our greatest resource and continue the strong passion for our mission of protecting people
- Continue to respond to the pandemic
- Promote a learning culture
- Hire and retain highly talented staff



OPS Priorities

Effective Use of Data and Information



- Turn data into information that helps drive our program
- Enhance analysis functions for OPS to use data analytics and visualization tools to integrate PDM data with other sources



OPS Priorities

Ensuring the Safety of the Infrastructure of the Future

- Promote a pipeline transportation mode that continues to deliver products to market safely and prepares for future products, such as hydrogen and other renewable commodities
- Conducted a Hydrogen / R&D forum and various technical studies
- Ensure the current infrastructure continues to safely supply energy and other products to the public
- Position the U.S. to successfully adopt the infrastructure of the future



Social and Environmental Justice and Equity Initiatives



Department of Transportation Equity Task

Administration
Priorities



Executive
Orders



DOT Equity in
Transportation
Task Force



Data &
Assessment
Work Stream

**Executive Order (EO) 13985:
Advancing Racial Equity and
Support for Underserved
Communities Through the Federal
Government (“Equity EO”)
(1/20/2021)**



Safety... Beyond Compliance

Our Vision for Zero Incidents!



How We Work Toward Zero



RESEARCH AND DEVELOPMENT

Support research

RISK/DATA ANALYSIS

Analyze safety, improve data quality

INSPECTION, ENFORCEMENT & ACCIDENT INVESTIGATION

Federal and State inspectors evaluate pipelines to determine compliance

STAKEHOLDER OUTREACH & ENGAGEMENT

Enhancing safety through programs

SAFETY MANAGEMENT SYSTEMS (SMS)

Supporting Pipeline SMS



Safety Management Systems (SMS)



- Promote continued implementation throughout the industry
- Improve pipeline safety by building upon lessons learned and being proactive to prevent future events
- PIPES Act requirement to review



An SMS Element... Public Engagement

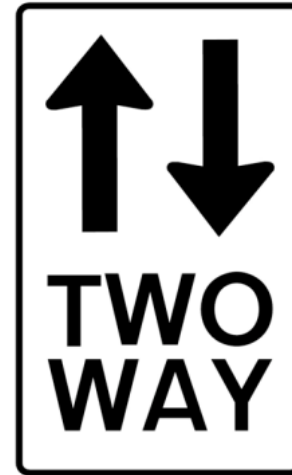
Public Awareness

“Telling”



Public Engagement

“Involving & Asking”



- API RP 1173
- Supporting working group API RP 1185
- Effectiveness



Is your company following a roadmap to a Strong Safety Culture?



- Demonstrate commitment and accountability to safety
- Promote questioning attitudes
- Promote open communication and reporting
- Promote a culture of justice and trust
- Avoid normalization of deviance
- Eliminate production pressures
- Reduce workplace complacency
- Implement a “layers of protection” approach
- Make bold changes when necessary
- Make safety the highest priority



Damage Prevention Efforts



PHMSA Promotes Excavation Damage Prevention

Current focus areas:

- Strong state one call laws, especially in the area of enforcement
- Use of data to understand damage prevention landscape in each state
- Promoting use of 811
- Providing resources to damage prevention stakeholders
- Providing pipeline safety education and outreach in historically underserved/disadvantaged geographic areas
- Reducing excavation damages overall



Marine Pipeline Damage Prevention

- Expected PHMSA Advisory Bulletin for offshore and navigable pipeline facilities
- 811 required for any marine excavation (seaward, inland waters, rivers, streams, and lakes)
- One-call excavation tickets – marine vs. onshore
- Increased communication between excavator and pipeline operator needed
- Abandoned and derelict vessel programs should consider water bottom utilities and utilize 811
- All marine stakeholders should consider reviewing damage prevention resource material.



Marine Pipeline Damage Prevention

Marine pipeline damage prevention resources:

- Coastal and Marine Operators (CAMO)
 - Recommended Best Practices Guide & Checklist for Damage Prevention - <https://www.camogroup.org/wp-content/uploads/2019/11/Working-Safely-Near-Underwater-Pipelines.pdf>.
 - Safety video and free online training - <https://www.camogroup.org/camo-marine-pipeline-safety-video/?>.
- Council for Dredging and Marine Construction Safety (CDMCS)
 - Pipeline Incident Prevention - <https://cdmcs.org/underwater-pipeline-resource-center/>.
- PHMSA - <https://www.phmsa.dot.gov/safety-awareness/pipeline/marine-damage-prevention>.

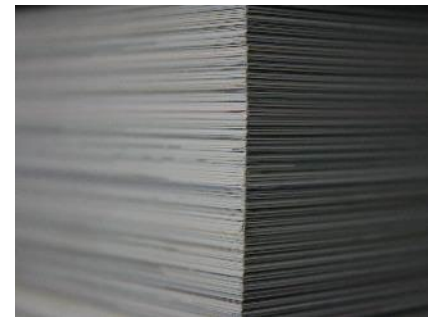


Regulatory Agenda



Protecting our Infrastructure of Pipelines and Enhancing Safety (PIPES) Act of 2020

- Impact on current regulatory agenda
- New regulatory mandates
- Studies and reports



PIPES Act of 2020 Overview

TITLE I—IMPROVING PIPELINE SAFETY AND INFRASTRUCTURE

[Sec. 101.](#) Authorization of appropriations.

[Sec. 102.](#) Pipeline workforce development.

[Sec. 103.](#) Cost recovery and fees for facility reviews.

[Sec. 104.](#) Advancement of new pipeline safety technologies and approaches.

[Sec. 105.](#) Pipeline safety testing enhancement study.

[Sec. 106.](#) Regulatory updates.

[Sec. 107.](#) Self-disclosure of violations.

[Sec. 108.](#) Due process protections in enforcement proceedings.

[Sec. 109.](#) Pipeline operating status.

[Sec. 110.](#) Updates to standards for liquefied natural gas facilities.

[Sec. 111.](#) National Center of Excellence for Liquefied Natural Gas Safety.

[Sec. 112.](#) Prioritization of rulemaking.

[Sec. 113.](#) Leak detection and repair.

[Sec. 114.](#) Inspection and maintenance plans.

[Sec. 115.](#) Consideration of pipeline class location changes.

[Sec. 116.](#) Protection of employees providing pipeline safety information.

[Sec. 117.](#) Interstate drug and alcohol oversight.

[Sec. 118.](#) Purpose and general authority.

[Sec. 119.](#) National Academy of Sciences study on automatic and remote-controlled shut-off valves on existing pipelines.

[Sec. 120.](#) Unusually sensitive areas.

[Sec. 121.](#) Safety-related condition reports.

[Sec. 122.](#) Risk analysis and integrity management programs.

[Sec. 123.](#) Rule of construction.

TITLE II—LEONEL RONDON PIPELINE SAFETY ACT

[Sec. 201.](#) Short title.

[Sec. 202.](#) Distribution integrity management plans.

[Sec. 203.](#) Emergency response plans.

[Sec. 204.](#) Operations and maintenance manuals.

[Sec. 205.](#) Pipeline safety management systems.

[Sec. 206.](#) Pipeline safety practices.



[Rulemaking](#)



[Study and/or Report](#)



[Self-executing](#)

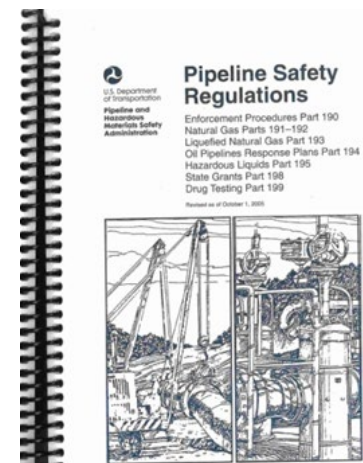


[Miscellaneous](#)

Recent and Upcoming Final Rules

Published:

- Safety of Gas Gathering Pipelines
(*Final Rule published 11/15/21*)
- Valve Installation and Minimum Rupture Detection Standards (*Final Rule published 4/8/2022*)
- Safety of Gas Transmission Pipelines: Discretionary Integrity Management Improvements (*Final Rule published 8/24/2022*)



Upcoming:

- Coastal Ecological Unusually Sensitive Areas (*Interim Final Rule published 12/27/2021; LPAC meeting held 8/17/2022*)



Upcoming Proposed Rules



Published:

- Class Location Change Requirements
(NPRM published 10/14/2020)
- Standards Update II
(NPRM published 8/29/2022)

Upcoming NPRMs:

- Gas Pipeline Leak Detection
- Safety of Gas Distribution Pipelines
- Amendments to Liquefied Natural Gas Facilities
- Pipeline Operational Status



CO₂ Pipelines Rulemaking

Under Development (RIN: 2137-AF60)

- In response to carbon capture initiatives, and the growth of CO₂ pipelines – both liquid and gaseous

Next Action:

- Issuance of Notice of Proposed Rule Making
 - <https://www.phmsa.dot.gov/regulations/federal-register-documents>



Gas Gathering Resources



Final Rules Docket:

<https://www.regulations.gov/docket/PHMSA-2011-0023>

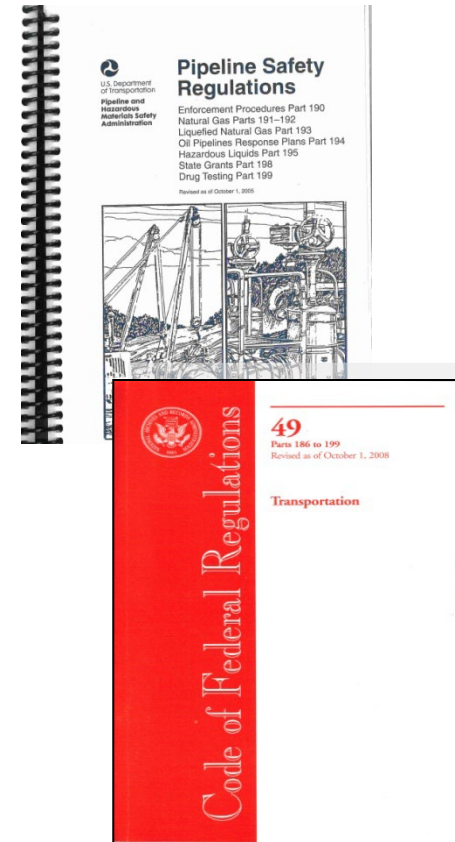
Gas Gathering Pipeline Technical Resources Page:

<https://www.phmsa.dot.gov/pipeline/gas-gathering/gas-gathering-regulatory-overview>



Additional Resources and Tools

- PHMSA Homepage, Office of Pipeline Safety
 - www.phmsa.dot.gov
- Standards & Rulemaking
 - <http://www.phmsa.dot.gov/pipeline/regs>
- PHMSA Technical Resources
 - <https://www.phmsa.dot.gov/technical-resources/pipeline/pipeline-technical-resources-overview>
 - GPAC Meeting slides for reference at “Public Meetings” tab (<https://primis.phmsa.dot.gov/meetings/>)
- PHMSA’s Stakeholder Communications Site
 - <http://primis.phmsa.dot.gov/comm>
- For Federal Regulations (Official Version)
 - www.ecfr.gov



Pipeline Safety Questions...

Contact a Community Liaison



Southwest Region Community Liaisons



James (Jay) Prothro

James.Prothro@dot.gov

Phone: 713-272-2832

Arkansas, Oklahoma, Texas

William (Bill) Lowry

Bill.lowry@dot.gov

Phone: 609-771-7806

Louisiana, New Mexico, Texas

For assistance in other regions, just search “**Community Liaisons**”
on www.phmsa.dot.gov



Thank You!!

Jay Prothro
(281) 786-9437
James.prothro@dot.gov

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

