



# 2024 Pipeline Safety Seminar

September 5, 2024

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Office of Pipeline Safety



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

**PHMSA: Your Safety is Our Mission**



# 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.

## 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





# States' Roles

PHMSA's partnership with states is critical in advancing the safety of our nation's 3.3 million miles of pipelines.



# Agenda

- Current Drivers
- Reauthorization
- Rulemaking
- Outreach and Engagement
- R&D
- PSMS



# What's Happening: Current Drivers

- Climate Change Actions
- Energy Transition
- Environmental/Social Justice
- Geopolitical events
- PIPES 2011, 2016, 2020
- Reauthorization



# Reauthorization

Congressional reauthorization refers to the process through which Congress reviews and potentially modifies existing laws that have expiration dates, or need periodic review to continue functioning, and provides a vehicle for congressional mandates of rules, studies, and reports.

PIPES 2011, 2016, 2020, ????



# Reauthorization

## Why is it important?

1. Ensure continuity
2. Update and modernize
3. Provide oversight and accountability
4. Public input and debate
5. Consider budgetary impact



# Reauthorization

- Protecting Our Infrastructure of Pipelines and Enhancing Safety (PIPES) 2020 signed by the President on December 21, 2020
- Expiration: December 20, 2024
- Congressional mandates are agency “to dos”
  - Rulemaking, self executing provisions, studies, reports





# Reauthorization

Draft legislation to date:

House T&I Committee: H.R. 6494, Promoting Innovation in Pipeline Efficiency and Safety (PIPES) Act of 2023

House E&C Committee: Pipeline Safety, Modernization, and Expansion Act of 2023

Senate proposed legislation pending.



# Reauthorization

Partial list of draft legislation:

- **Authorized Funding**
- **Excavation damage prevention**
- **Voluntary Information Sharing (VIS)**
- Criminal penalties for damage to pipelines
- **Carbon Dioxide (CO2) regulations**
- Hydrogen blending study/updated policies
- **Technology pilot programs**
- Alternative ways to maintain ROWs
- **Public engagement office**



# Reauthorization

Partial list of draft legislation, continued:

- Alert system rulemaking
- Geohazard rulemaking
- Cost of compliance study
- **MAOP Working Group**
- Report on PAC recommendations to Congress
- **Staffing**
- Worker Safety Zone rulemaking



# Rulemakings



# PIPES Act Web Chart

PIPES ACT 2020 WEB CHART

Rule Title/Subject/Docket No.	RIN	Rule Stage	Legislation	Description of Work Plan	Rulemaking Timeline (*actual date)		OST Date for Completing Review (45 days)	Date(s) Sent back to PHMSA	Date(s) Sent Back to OST	Current Staff PHMSA/OST Allocation **	Resource Constraints Affecting Process in PHMSA/ OST	OMB Date for Completing Review (90 days) ( <a href="https://www.reginfo.gov">reginfo.gov</a> )	Additional Details Affecting Rulemaking	Additional Comments on Rulemaking Status
OPS: Gas Pipeline Leak Detection	2137-AF51	Final Rule	<b>PIPES Act 2020</b> Sec 113	Complete Final Rule	To OST To OMB FR Pub	8/15/24* 9/30/24 1/3/25	9/30/24			20 staff PHMSA 5 staff OST	YES		<a href="#">PHMSA held public meetings May 5-6, 2021, and February 17, 2022.</a>	The NPRM published in the Federal Register [88 FR 31890] on 5/18/2023. GPAC meeting held week of November 27, 2023. Additional GPAC meeting held week of March 25 <sup>th</sup> . The closing date for filing comments was April 29, 2024, for comments on the GPAC proceedings.
OPS: Safety of Gas Distribution Pipelines	2137-AF53	NPRM	<b>PIPES Act 2020; Leonel Rondon Act</b> Sec 202, 203, 204, and 206	Hold GPAC meeting	To OST To OMB FR Pub	2/14/23* 4/18/23* 9/7/23*	4/10/23	2/27/23 3/15/23	3/14/23 3/21/23	8 staff PHMSA 5 staff OST	YES	7/18/2023		The NPRM published in the FR on 9/7/2023. Comment period closed 11/6/2023.
OPS: Amendments to Liquefied Natural Gas Facilities	2137-AF45	NPRM	<b>PIPES Act 2016</b> Sec 27; <b>PIPES Act 2020</b> Sec 110	Complete NPRM	To OST To OMB FR Pub	12/2/24 1/16/25 5/2/25				8 staff PHMSA 5 staff OST	YES			
OPS: Pipeline Operational Status	2137-AF52	NPRM	<b>PIPES Act 2020</b> Sec 109	Complete NPRM	To OST To OMB FR Pub	12/2/24 1/16/25 5/2/25				8 staff PHMSA 5 staff OST	YES			
OPS: Carbon Dioxide and Hazardous Liquid Pipelines	2137-AF60	NPRM	<b>Pipeline Safety Act 2011</b> Sec 15	Complete NPRM	To OST To OMB FR Pub	12/13/23* 2/1/2024* 9/9/24	1/27/24	1/8/24 1/16/24 1/23/24	1/12/24 1/23/24 1/31/24	8 staff PHMSA 5 staff OST	YES	5/1/2024		Public meeting held May 31 – June 1, 2023.

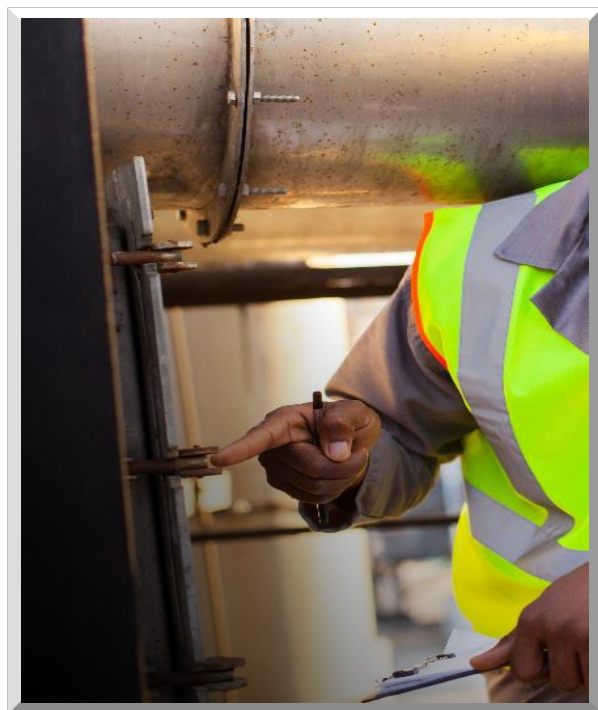
\*\*Staff allocations listed in this chart identify the total number of persons assigned to each rulemaking project. However, PHMSA and DOT staff are often assigned to multiple rulemaking teams and have additional tasks that prevent them from working full-time on a single rulemaking project. Workplan Projected Completion Dates based on currently available information.

ACRONYMS used: OPS - Office of Pipeline Safety; FR - Federal Register; OST - Office of the Secretary of Transportation; OMB - Office of Management and Budget; IFR - Interim Final Rule; NPRM - Notice of Proposed Rulemaking; ANPRM - Advance Notice of Proposed Rulemaking; GPAC - Gas Pipeline Advisory Committee; LPAC - Liquid Pipeline Advisory Committee; FR Pub - Federal Register Publication Date.





# Gas Pipeline Leak Detection and Repair



## **Responds to Section 113 of PIPES Act of 2020**

NPRM published 5/18/23

Comment period ended 8/16/23

Meetings in Nov./Dec. 2023 & Mar. 2024

**Next Action:** Final Rule Publication  
(late 2024/early 2025)



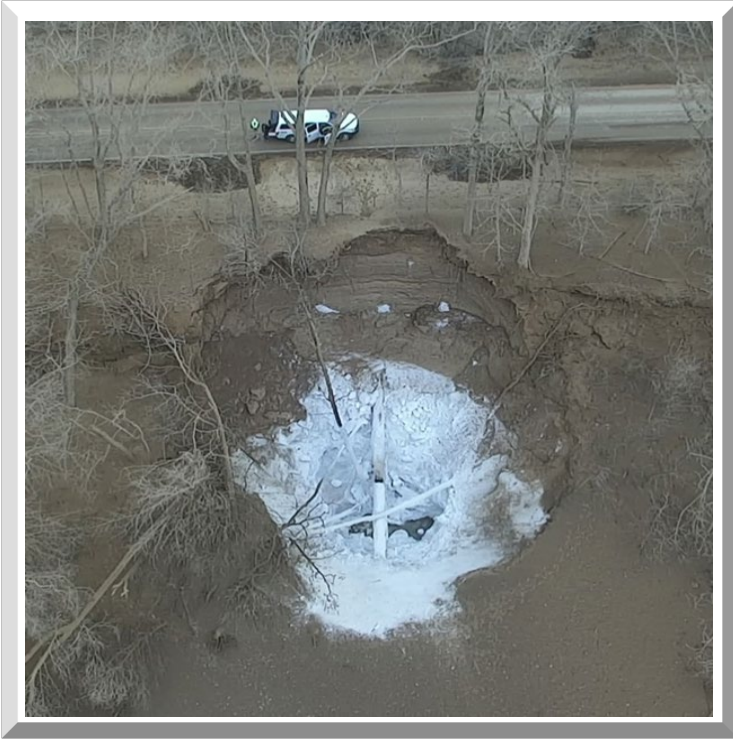
# Safety of Gas Distribution Pipelines and Other Pipeline Safety Initiatives (2137-AF53)



- **NPRM Published: 9/7/23**
  - Comment period ended 11/6/23
  - Addresses Leonel Rondon Act in the PIPES Act of 2020
- **Major Topics:**
  - DIMP
  - Emergency Response Plans
  - O&M
- **Impacts:** \$117M costs
- **Next Action:** Preparing for GPAC Meeting



# Safety of Carbon Dioxide and HL Pipelines (2137-AF60)



- **NPRM under OIRA review**
  - Review period started 2/1/24
  - Responds to CCUS initiatives and an expected buildout of CO<sub>2</sub> infrastructure
- **Major Topics:**
  - Regulated phases
  - Vapor dispersion modeling
  - Crack arresters
  - Odorization
- **Next Action:** Publish NPRM; hold LPAC meeting



# Amendments to Liquefied Natural Gas Facilities (2137-AF45)



- **NPRM under development**
  - Addresses PIPES Act of 2020 Section 110; PSM for O&M activities for large exporters
- **Major Topics:**
  - Updated NFPA 59A (2023 edition)
  - Petitions for Rulemaking
  - LNG export facilities & small scale
- **Next Action:** Publish NPRM





# Class Location Requirements (2137-AF29)



- **NPRM Published: 10/14/20**
  - Comment period ended 12/14/20
  - GPAC meeting held 3/27/24 – 3/29/24
- **Major Topics:**
  - Options for CL changes due to population increases; codification of SP process
- **Impacts:** Potential significant cost savings and methane reductions
- **Next Action:** Developing final rule





# Standards Update II (2137-AF48)



- **NPRM Published: 8/29/22**
  - Comment period ended 10/28/22
- **Major Topics:**
  - Proposes to update an additional 28 standards
  - API RP 652 (5<sup>th</sup> edition – 2020)
  - NACE SP0102 (2017 edition)
  - ASTM (16 standards in total)
  - NFPA 30 (2021 edition)
- **Next Action:** Preparing for GPAC/LPAC Meeting



# Coastal Ecological Unusually Sensitive Areas (2137-AF31)



- **Interim Final Rule Published: 12/27/21**
  - Effective date: 2/25/22
  - API/GPA petition/lawsuit
  - Stay of enforcement for low-stress/gathering
  - LPAC meeting: 8/17/22
- **Major Topics:**
  - Expand definition of USA to include Great Lakes, coastal beaches, and coastal waters
- **Next Action:** Publish final rule

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# Oil Spill Response Plans and Misc. HL Changes (2137-AF37)

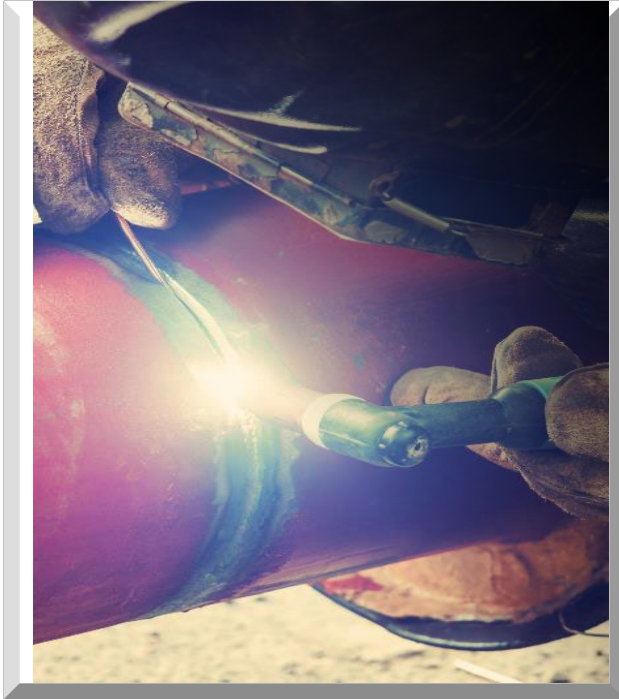


- **NPRM Published: 4/16/20**
  - Comment period ended 6/15/20
  - “De-reg” HL rule
- **Major Topics:**
  - Part 194 clarifications
  - Accident reporting criteria consistent w/part 192
  - Remote monitoring of rectifiers consistent w/part 192
- **Next Action:** Publish SNPRM





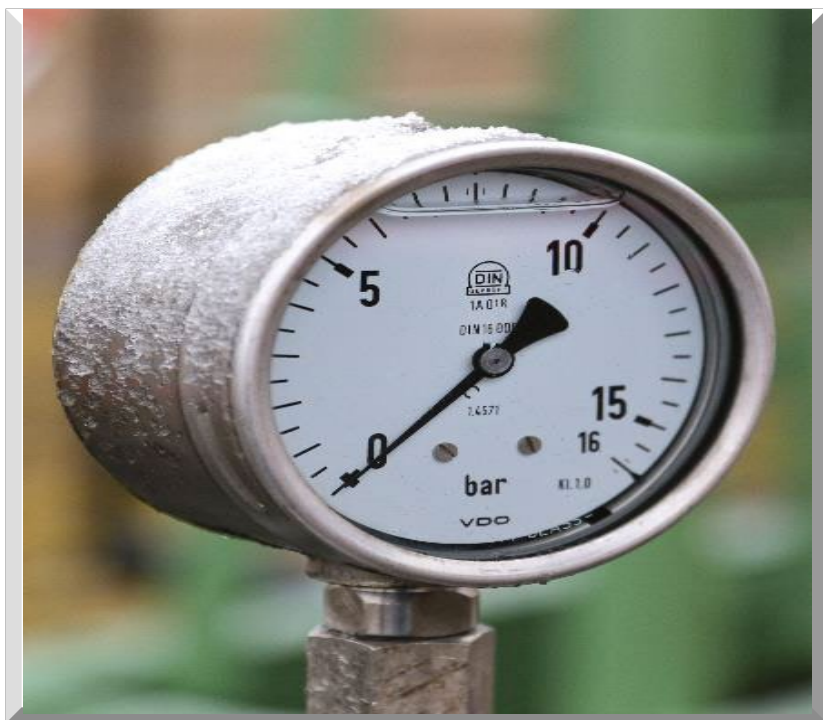
# Repair Criteria for HL Pipelines (2137-AF44)



- **Under Development**
  - Split from 2019 HL final rule
  - Possible eventual part 192 implications
  - Discussed as a part of the 2016 LPAC meeting on the HL rule
- **Major Topics:**
  - Repairs in HCAs and non-HCAs
  - Immediate, scheduled, and monitored conditions
  - Addressing metal loss, dent, and crack anomalies
- **Next Action:** Publish NPRM



# Pipeline Operational Status (2137-AF52)



- **Under Development**
- **PIPES Act of 2020 definition for “idled pipeline”**
  - Will not resume service in 180 days
  - Has been isolated from all sources of product and has been purged
- **API RP 1181 (Oct. 2019)**
- **Next Action:** Publish NPRM

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# Standards Update III Rulemaking



- **Recently Initiated**
- Non-Significant
- Currently reviewing standards that have been updated.
- **Next Action: NPRM**



# Outreach and Engagement

## RP-1162

API RP 1162 is an industry consensus standard that provides guidance and recommendations to pipeline operators for the development and implementation of enhanced public awareness programs.

## RP-1185

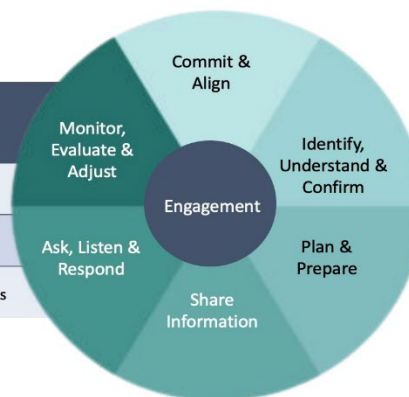
**Published**

Provides guidance to natural gas and hazardous liquid pipeline operators, interested parties in the public, governments, and rights holders for effective stakeholder engagement.

### Six Primary Elements

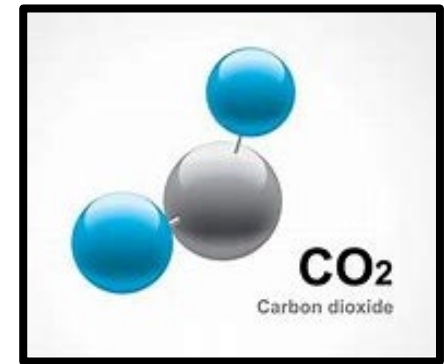
#### API RP 1185 - ENGAGEMENT

6 ELEMENTS	Yields a cohesive system
VALUES	Underly all elements
COMPONENTS	Stakeholders, lifecycles, information & tools



# Research & Development

- Relatively small R&D budget: \$12 to 15 million annually
- Recent heavy emphasis on hydrogen
  - PHMSA currently has 12 active projects from FYs 2021-2023 awards
  - \$11 million in research investments
- Investment in CO<sub>2</sub> research
  - PHMSA has four active research projects
  - \$3.8 million in research investments



# PSMS

- **PHMSA's Expectation:** Adoption of PSMS by the pipeline industry.
- **Section 205 of PIPES Act:** Mandates PHMSA submit a report to Congress on distribution operators' implementation of PSMS .
- We collected data from distribution operators on their implementation and soon will submit a report to Congress.





# Pipeline Safety Culture

It is the job of everyone, every day, to foster a culture that focuses on safety in order to ensure this does not happen on our watch.







# Thank You!



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