



**Pipeline and Hazardous Materials Safety Administration**  
**Office of Pipeline Safety**

**Pipeline Safety Regulatory Update**  
**10/18/2022**



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

**PHMSA: Your Safety is Our Mission**



# What's Happening

- **PIPES Act 2020**
  - Impact on current regulatory agenda
  - Section 114 O&M inspections
  - PIPES Act Web Chart: Monthly updates
- **White House Methane Reduction Action Plan**
- **Rulemaking Timelines:**
  - Reginfo.gov
  - PIPES Act Web Chart
- **Advisory Bulletins**
  - Earth Movement and other geological hazards (6/2/22)



# PIPES Act 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
<b>OPS</b> Safety of Gas Transmission Pipelines: Discretionary Integrity Management Improvements	2137- AF39	Final Rule	Pipeline Safety 2011 Sec 5	Complete Final Rule	To OST To OMB FR Pub	09/07/21* 02/23/22* 09/02/22	10/22/21
	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) (reginfo.gov)	Additional Details Affecting Rulemaking	Rule Title / Subject / Docket No.	Comments on Rulemaking Status
	11/15/21 12/15/21 01/26/22	12/10/21 01/25/22 01/26/22	9 staff PHMSA 5 staff OST	YES	05/24/22	<u>GPAC meeting held March 26-28, 2018.</u>	On 7/13/2022, OMB approved the rule for publication in the FR.
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
<b>OPS</b> Gas Pipeline Leak Detection	2137- AF51	NPRM	PIPES Act 2020 Sec 113	Complete NPRM	To OST To OMB FR Pub	10/28/22 12/14/22 03/31/23	
	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) (reginfo.gov)	Additional Details Affecting Rulemaking	Rule Title / Subject / Docket No.	Comments on Rulemaking Status
			8 staff PHMSA 5 staff OST	YES		<u>PHMSA held public meetings May 5-6, 2021, and February 17, 2022.</u>	

\*\*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.

<https://www.phmsa.dot.gov/legislative-mandates/pipes-act-web-chart>



# PIPES Act Web Chart (cont.)

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
<b>OPS</b> Safety of Gas Distribution Pipelines	2137-AF51	NPRM	PIPES Act 2020 Leonel Rondon Act Sec 202, 203, 204, and 206	Complete NPRM	To OST To OMB FR Pub	10/28/22 12/14/22 03/31/23	
	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) (reginfo.gov)	Additional Details Affecting Rulemaking	Rule Title / Subject / Docket No.	Comments on Rulemaking Status
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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
<b>OPS</b> Amendments to Liquefied Natural Gas Facilities	2137-AF45	NPRM	PIPES Act 2016 Sec 27; PIPES Act 2020 Sec 110	Complete NPRM	To OST To OMB FR Pub	11/30/22 01/18/23 05/05/23	
	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) (reginfo.gov)	Additional Details Affecting Rulemaking	Rule Title / Subject / Docket No.	Comments on Rulemaking Status
			8 staff PHMSA 5 staff OST	YES			

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# PAC Activity



- **Most Recent PAC meetings:**
  - August 17, 2022 (LPAC)- USA IFR
  - October 20 – 21, 2021 (GPAC and LPAC) – Standards Update I rule
- **Rulemakings requiring PAC Meeting:**
  - Class Location (GPAC); Standards Update II

5 [Meetings webpage](#)



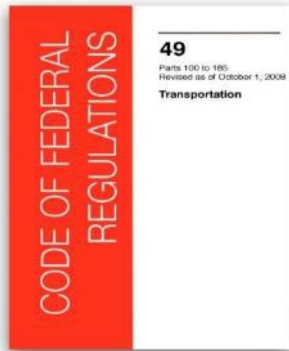


# COMPLETED ACTIONS



# Original Gas Rule NPRM Issued on 4/8/16

## Split Into Three Final Rules:



### **RIN 1 – Safety of Gas Transmission Pipelines: MAOP Reconfirmation, Expansion of Assessment Requirements, and Other Related Amendments**

- [Final Rule Published October 1, 2019](#)

### **RIN 2 (2137-AF39) – Repair Criteria, IM Improvements, Cathodic Protection, Management of Changes, and Other Related Amendments**

- [Final Rule published, August 24, 2022](#)

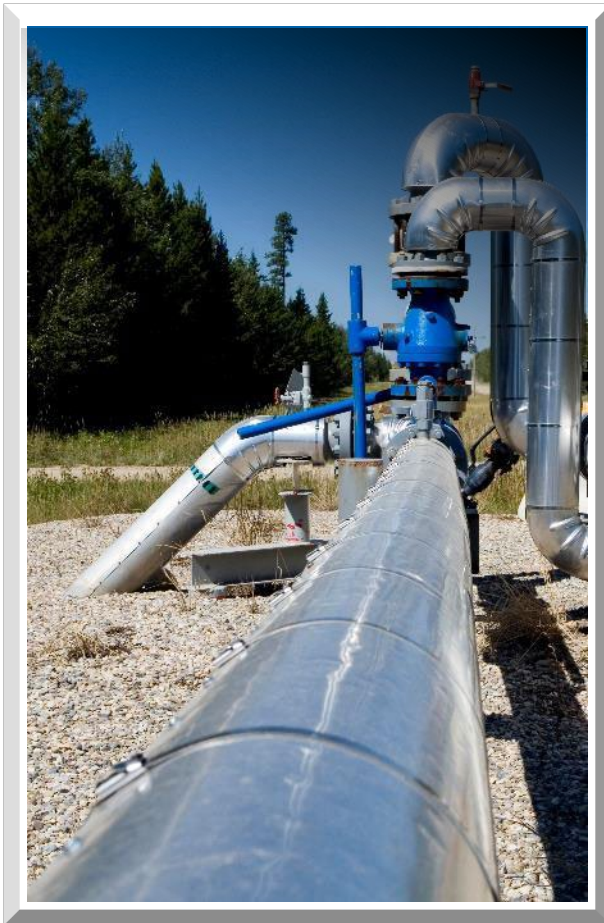
### **RIN 3 (2137-AF38) – Gas Gathering**

- [Final Rule Published November 15, 2021](#)



# Safety of Gas Transmission Lines (RIN 2)

**RIN: 2137-AF39**



- **Final Rule Published 8/24/2022**
  - Effective Date: 5/24/23
- **GPAC Meetings Held January 2017; June 2017, Dec 2017, March 2018**
- **Major Topics**
  - Repair criteria
  - Inspections following extreme weather events
  - Assessments
  - Corrosion control
  - Management of change
  - IM clarifications





# Safety of Gas Transmission Lines (cont.)

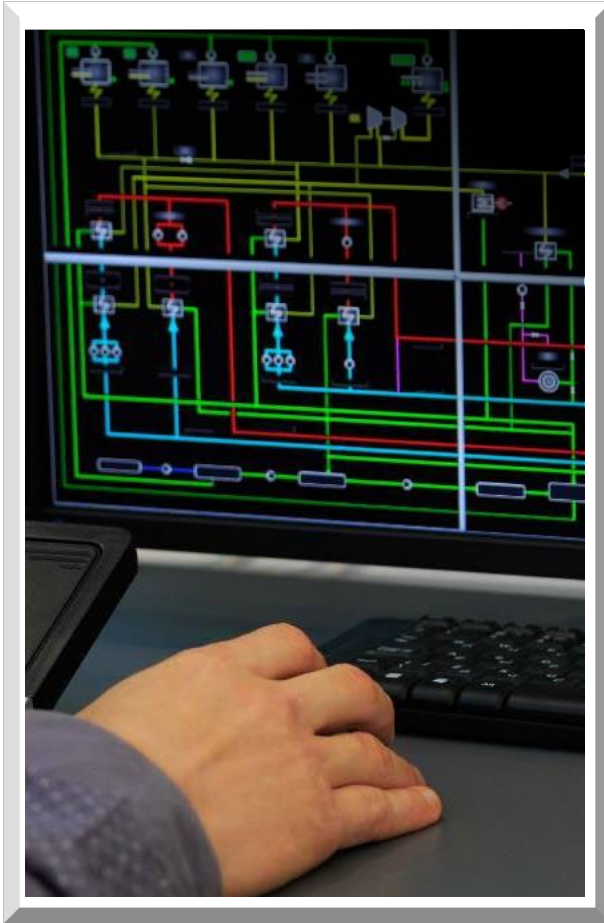
## Highlights of New Requirements:

- Definitions (§ 192.3)
- Management of Change (§§ 192.13 & 192.911)
- Corrosion Control (§§ 192.319, 192.461, 192.465, 192.473, 192.478, 192.935)
- Inspections Following Extreme Events (§ 192.613)
- Repair Criteria (§§ 192.711, 192.714, 192.933)
- IM Clarifications (§§ 192.917 (a) – (d), 192.935(a))
- Strengthening Requirements for Assessment Methods (§§ 192.923, 192.927, 192.929)



# Rupture Detection and Valve Rule

RIN: 2137-AF06



- **Final Rule Published 4/8/2022**
  - Effective Date: 10/5/22; 4/20/23
- **NPRM Published 2/26/20**
- **PAC Meetings Held 7/22/20 to 7/23/20**
- **Major Topics**
  - Rupture mitigation valves (RMVs)
    - Installation, operation, spacing, and alternatives
  - Emergency plans
  - Notifications of potential ruptures
  - Leak detection
  - Post failure and incident procedures



# Rupture Detection and Valve Rule (cont.)

## Highlights of New Requirements

- RMVs required for newly constructed HL and Gas transmission(GT) / Type A gas gathering pipelines that are  $\geq$  6” in diameter
  - Exception for Class 1 and 2 lines with 150ft PIR
- Pipelines that are newly constructed or “entirely replaced” must be equipped with “rupture-mitigation valves” or alternative equivalent technology
- New valve spacing provisions HL and GT pipelines
- If an operator observes or is notified of a release of gas or HL that may be representative of a “notification of potential rupture,” the operator must, as soon as practicable but within 30 minutes:
  - Identify the rupture.
  - Fully close any rupture-mitigation valves necessary to mitigate the rupture – mainline valves, cross-over valves and laterals



# Rupture Detection and Valve Rule (cont.)

## Highlights of New Requirements

- Development of written procedures to identify and confirm whether a “notification of potential rupture” is a rupture
- Maintenance and drill requirements for equivalent technology to ensure the valve can close within 30 minutes after identifying a rupture
- Operator investigation following a rupture with any lessons learned implemented throughout the pipeline system
- Updated 9-1-1 notification requirements (direct notification of appropriate public safety answering point)



# Safety of Gas Gathering Lines

RIN: 2137-AF38



- **Final Rule Published 11/15/21**
  - Effective date: May 16, 2022
- **Corrections/ petition response**
  - [87 FR 26296](#)
  - [87 FR 35675](#)
- **Major Topics**
  - Incident and annual reporting
  - Incidental gathering
  - New Type C category
- Petition for reconsideration received; response sent 4/1/2022; appeal and lawsuit.
- **Limited stay of enforcement**: Sec. 192.9 requirements for pipelines less than or equal to 12.75”Until May 17, 2024





# Safety of Gas Gathering Lines (cont.)

## Highlights of New Requirements

- Annual and incident reporting for all gas gathering lines, including previously unregulated lines (over 425,000 miles of pipe). (new “Type C” and “Type R” gathering lines)
- Incidental gathering line exception limited to lines 10 miles or less.
- Impact of new “Type C” category for gathering lines:
  - 91,000 additional miles of pipe subject to damage prevention and emergency planning requirements
  - 20,000 additional miles of pipe subject to public awareness, line marker, corrosion control, and leak survey requirements
  - 14,000 additional miles of pipe subject to MAOP requirements
  - All new and replaced pipe of 8-inches diameter or greater will have to be constructed in accordance with the current pipeline safety regulations



# Safety of Gas Gathering Lines - Rule Coverage

Provision	Scope	Mileage*
<b>Reporting (incident, annual)</b> Part 191	Previously unregulated gathering	>400,000 miles
<b>Design, Construction, initial Inspection and Testing**</b>	All new and replaced Type C (diameter $\geq$ 8.625")	New & replaced only
<b>Damage Prevention</b> § 192.614	All Type C (diameter $\geq$ 8.625")	90,863 miles
<b>Emergency Plans</b> § 192.615	All Type C (diameter $\geq$ 8.625")	90,863 miles
<b>Public Awareness</b> § 192.616	Diameter 8.625" through 16" with a PIR exception All Type C with a diameter >16"	20,336 miles
<b>Line Markers</b> § 192.707	Diameter 8.625" through 16" with a PIR exception All Type C with a diameter >16"	20,336 miles
<b>Corrosion Control</b> Subpart I to part 192	Diameter 8.625" through 16" with a PIR exception All Type C with a diameter >16"	20,336 miles
<b>Leakage Surveys and Repairs</b> §§ 192.703, 192.706	Diameter 8.625" through 16" with a PIR exception All Type C with a diameter >16"	20,336 miles
<b>Maximum Allowable Operating Pressure</b> § 192.619	Diameter >12.75" through 16" with a PIR exception All Type C with a diameter >16"	13,760 miles
<b>Plastic Pipe Requirements</b>	Diameter >12.75" through 16" with a PIR exception All Type C with a diameter >16"	13,760 miles

\* Estimated

\*\* Allowance for the use of composite pipe and short segment replacements



# Safety of Gas Gathering Lines (cont.)

## Compliance Dates

- Effective Date: May 16, 2022
- Reporting
  - Incident Reports: Report events occurring after May 16, 2022
  - Annual Reports: 2022 reports due March 2023
- Identify Type C lines: November 16, 2022
- Section 192.9 compliance: May 16, 2023
- MAOP lookback: 5-year period ending May 16, 2023
- Enforcement discretion
  - [Incidental gathering lines: constructed after May 16, 2022](#)
  - [Part 192 requirements for pipelines  \$\leq 12.75\$ "](#): May 17, 2024



# RULEMAKINGS IN PROGRESS

1  
7



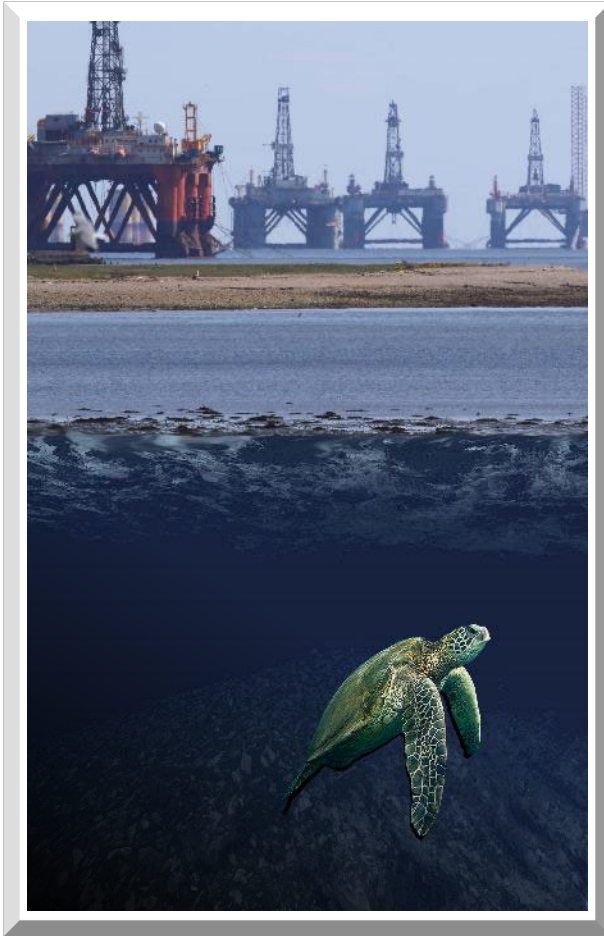
U.S. Department of Transportation  
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# Coastal Ecological Unusually Sensitive Areas

**RIN: 2137-AF31**



- **[Interim Final Rule \(IFR\) Published 12/27/2021](#)**
  - Effective date 2/25/2022
  - API GPA Petition lawsuit
  - PHMSA Response; stay of enforcement (low stress/gathering)
- **LPAC Meeting** on 8/17/2022
- **Major Topics**
  - Addresses coastal beaches and coastal waters USAs
  - Updated USAs in the NPMS
  - Applicability to IM, rural low-stress, and regulated rural gathering
- **Next Action:** Publish final rule





# Class Location Requirements

RIN: 2137-AF29

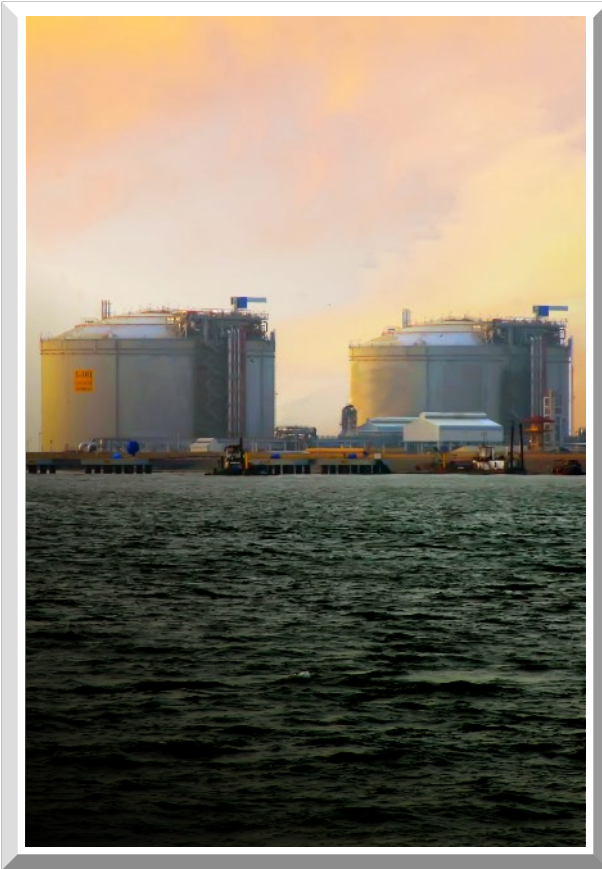


- [NPRM Published 10/14/20](#)
  - Comment period ended 12/14/20
- **Major Topics Under Consideration:** Options for CL changes due to population increases
- **Next Action:** PAC meeting TBD



# Liquefied Natural Gas

**RIN: 2137-AF45**



- **Major Topics Under Consideration:**
  - Updated NFPA 59A
  - Petitions for Rulemaking
- **PIPES Act 2020**  
(Section 110; PSM for O&M activities)
- **Next Action:** Publish NPRM



# Standards Update I

RIN: 2137-AF13



- **NPRM Published 1/15/2021**
  - Comment period ended 3/16/2021
  - PAC meeting held 10/21/21
- **Major Topics Under Consideration**
- **Next Action:** Publish final rule



# Standards Update II

**RIN: 2137-AF48**



- **[NPRM Published 8/29/22](#)**
  - Comment period ended 10/28/2022
- **Major Topics Under Consideration**
  - Proposes 28 updated standards
- **Next Action:** PAC meeting





# Oil Spill Response Plans and Misc. HL Changes

RIN: 2137-AF37



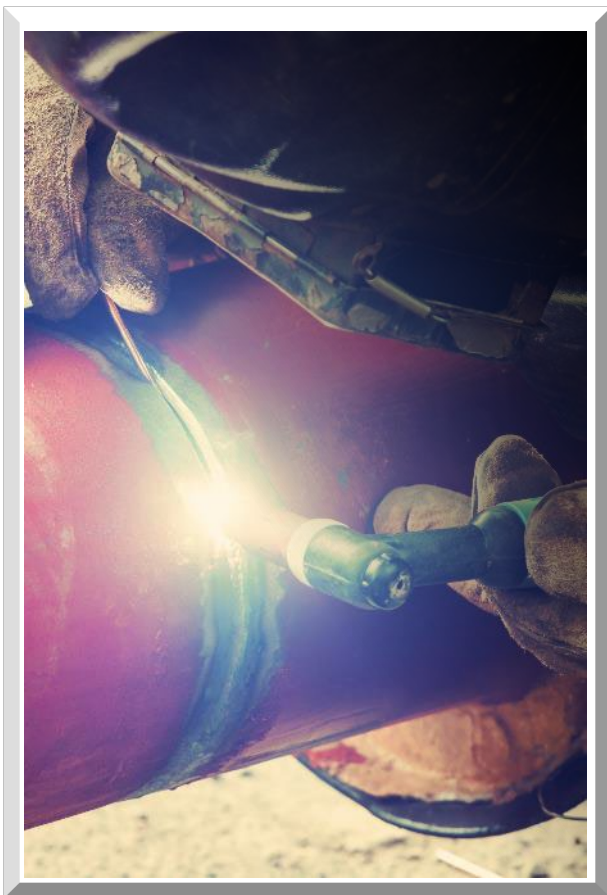
- [NPRM Published 4/16/20](#)
  - Comment period ended 6/15/20
- **Note:** Name changed to “Pipeline Safety: Oil Spill Response Plans, Accident Notifications, Inspections and Investigations and other Miscellaneous Pipeline Safety Changes”
- **Next Action:** Publish SNPRM





# Hazardous Liquid Repair Criteria

**RIN: 2137-AF44**



- **Under Development**
- Split from original [Hazardous Liquid NPRM published on 10/13/2015](#)
- **Major Topics Under Consideration**
  - Repairs in HCA and non-HCAs

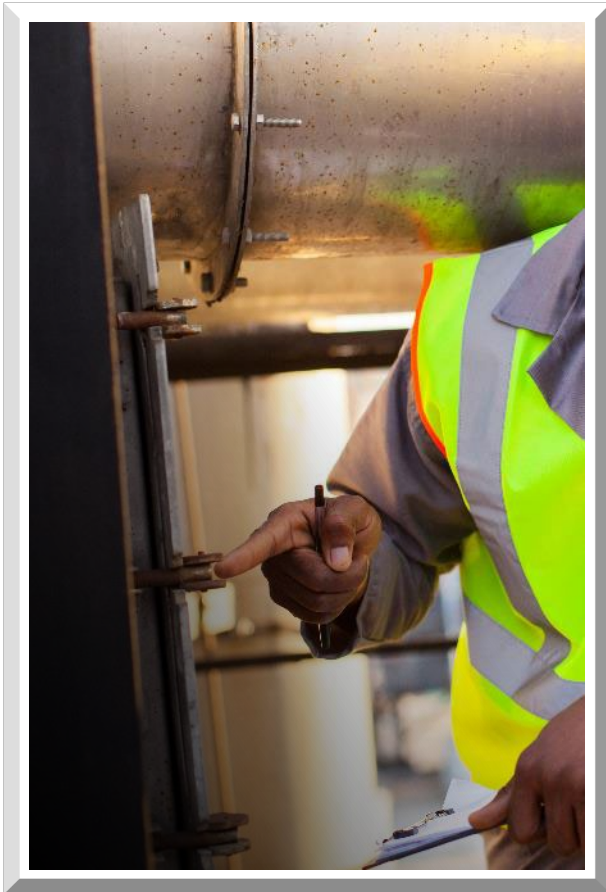
## **Next Action:**

- Publish NPRM



# PIPES Act of 2020 – Section 113 Leak Detection

**RIN: 2137-AF51**

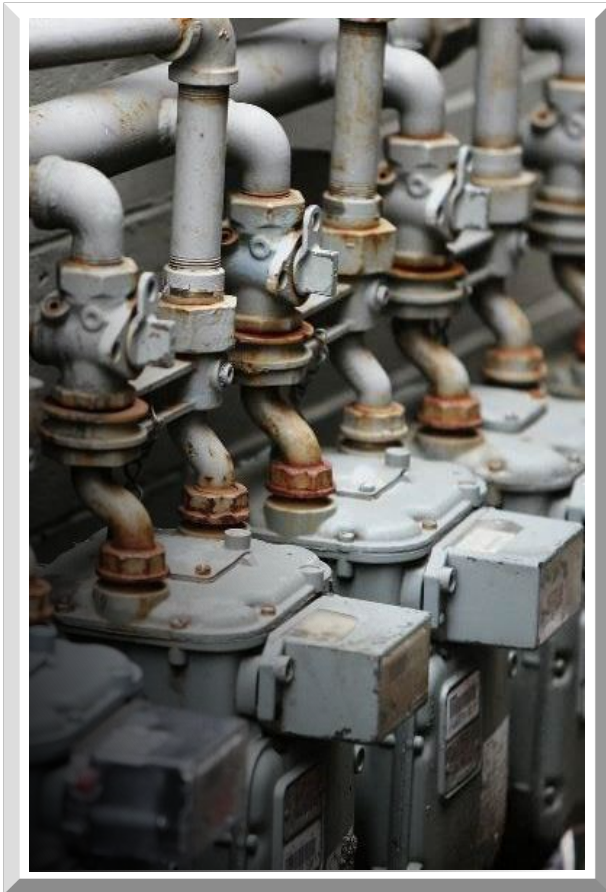


- **NPRM Under Development**
- **Major Topics Under Consideration**
  - Leakage surveys and technology
  - Leak repair schedules
  - Reporting
  - Vented emissions
- Emissions reduction Advisory Bulletin published 6/10/2021
- **Next Action:** Publish NPRM



# Safety of Gas Distribution Pipelines

**RIN: 2137-AF53**



## **Under Development**

- Addresses Leonel Rondon Act in the PIPES Act of 2020
- **Major Topics Under Consideration**
  - Distribution integrity management plans
  - Emergency response plans
  - Operations and maintenance

**Next Action:** Publish NPRM



# Pipeline Operational Status

**RIN: 2137-AF52**



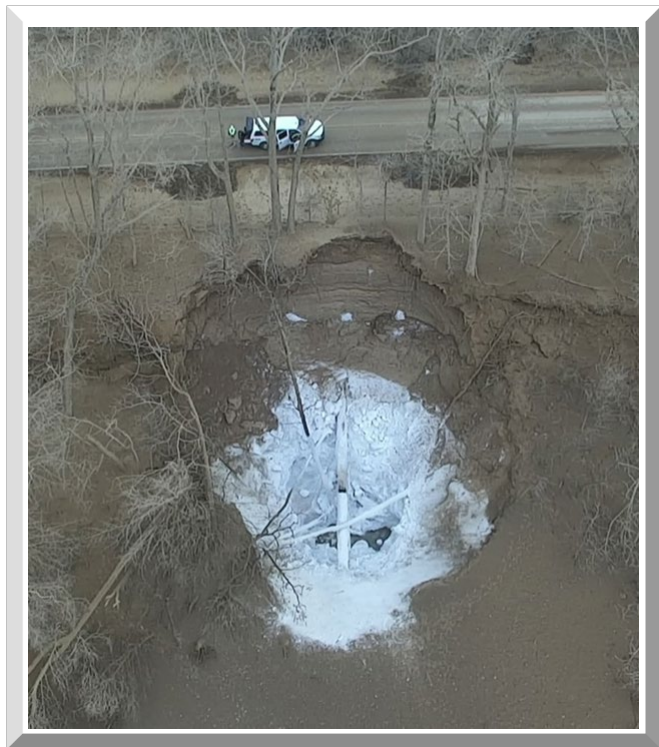
- **Under Development**
- **PIPES Act of 2020** defines an “idled pipeline”
  - Will not resume service in 180 days
  - Has been isolated from all sources of hazardous liquid, natural gas has been purged
- **API RP 1181**; addresses idled pipelines
- **Next Action:** Publish NPRM





# Carbon Dioxide

**RIN: 2137-AF60**



## Under Development

- In response to carbon capture initiatives, and the growth of CO<sub>2</sub> pipelines – both liquid and gaseous
  - Gaseous vs liquid pipelines
  - Vapor dispersion modeling for CO<sub>2</sub> pipelines
  - Clarify requirements for crack arresters

## Next Action:

- Publish NPRM





# Questions?

