

# Pipeline and Hazardous Materials Safety Administration Office of Pipeline Safety

### **Pipeline Safety Regulatory Update**





# What's Happening

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





### PIPES Act Web Chart

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

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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)	Dute(s) Sent back to PHMSA	Date(s) Sent Back to OST	Current Staff PHMSA/OST Allocation **
PS: Safety of Gas Transmission belines: Discretionary Integrity anagement 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	11/15/21 12/15/21 01/26/22	01/25/22	9 staff PHMSA 5 staff OST
PS: Gas Pipeline Leak etection	2137- AF51	NPRM	PIPES Act 2020 Sec 113	Complete NPRM	To OST To OMB FR Pub	09/16/22 11/03/22 02/17/23				8 staff PHMSA 5 staff OST
PS: Safety of Gas stribution Pipelines	2137- AF53	NPRM	PIPES Act 2020 Leonel Rondon Act Sec 202, 203, 204, and 206	Complete NPRM	To OST To OMB FR Pub	09/16/22 11/03/22 02/17/23				8 staff PHMSA 5 staff OST
PS: Amendments to quefied Natural Gas lities	2137- AF45	NPRM	PIPES Act 2016 Sec 27; PIPES Act 2020 Sec 110	Complete NPRM	To OST To OMB FR Pub	09/30/22 11/18/22 03/06/23				8 staff PHMSA 5 staff OST





### **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)





### 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 publishes August 24, 2022

RIN 3 (2137-AF38) – Gas Gathering

• Final Rule Published November 15, 2021





# Safety of Gas Transmission Lines

(**RIN:** 2137-AF39)

- Final Rule publishes 8/24/2022 (on public display today)
  - 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)



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### 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





### Rupture Detection and Valve Rule (cont.)

#### Highlights of new requirements (cont.)

- 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.

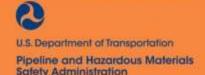




### Rupture Detection and Valve Rule (cont.)

Highlights of new requirements (cont.)

- 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).

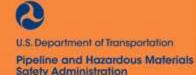




# Safety of Gas Gathering Lines

(**RIN:** 2137-AF38)

- Final Rule published 11/15/21
  - Effective date: May 16, 2022
- GPAC Meetings held June 2019
- Major topics
  - Incident and annual reporting
  - Change in use of incidental gathering
  - New Type C category.
- Petition for reconsideration received; response sent 4/1/2022; appeal and lawsuit; stay of enforcement issued





# 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 8 inches or greater will have to be constructed in accordance with the current pipeline safety regulations.



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# Safety of Gas Gathering Lines (cont.)

**Rule Coverage** 

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

<sup>\*</sup> Allowance for the use of composite pipe and short segment replacements





### 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 Beaches and Coastal Waterways
- PHMSA recently updated NPMS
- **Next Action:** Issuance of 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
  - PIPES 2020 Act





### **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: Issuance of NPRM



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### Standards Update

(**RINs:** 2137-AF13 and 2137-AF48)

### 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: Issuance of Final Rule

### Standards Update II (RIN: 2137-AF48)

Pending publication of NPRM





# Liquid Pipeline Regulatory Reform

(**RIN:** 2137-AF37)

- NPRM published 4/16/20
  - Comment period ended 6/15/20
- Major topics under consideration
- Next action: Issuance of SNPRM
- Note: Name changed to "Pipeline Safety: Oil Spill Response Plans, Accident Notifications, Inspections and Investigations and other Miscellaneous Pipeline Safety Changes"





### 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: Issuance of NPRM





### PIPES Act of 2020 – Section 113 Leak Detection

(**RIN:** 2137-AF51)

- Under Development
- Major topics under consideration
  - ALD's
  - Survey frequency
  - Repair criteria
  - Blowdowns
  - Vented vs Fugitive emissions
- **Next action:** Issuance of NPRM
- \* Leak Detection Advisory Bulletin published 6/10/2021





### 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: Issuance of 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: Issuance of NPRM





### **Carbon Dioxide**

(**RIN:** 2137-AF60)

### Under Development

- In response to carbon capture initiatives, and the growth of CO2 pipelines both liquid and gaseous
  - Gaseous vs liquid pipelines
  - Vapor dispersion modeling for CO2 pipelines
  - Crack arresters
  - Next action: Issuance of NPRM





# **Questions?**





