



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration



Know what's below.
Call before you dig.



PIPES Act 2020, Section 114 Inspection

Byron Coy PE, Sr. Technical Advisor

October 20, 2021



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

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



Section 114, Inspection Natural Gas Emissions

1. Reduction of Natural Gas Emissions from:
 - Fugitive Leaks
 - Intentional Releases from Operations, Maintenance and some Emergency Response Activities
 - Principally focused on operators who transport natural gas
 - Other operators who only use natural gas for power, controls or instruments on regulated facilities



Section 114, Inspection Leak-Prone Pipe

2. Remediation or Replacement of Leak-Prone Pipe

- Leak-Prone pipe criteria is for all operators, not just those who transport natural gas
- Plans to address the replacement or remediation of pipelines that are known to leak based on the material, design, or past operating and maintenance history of the pipeline
- Including, but not limited to: cast iron, unprotected steel, wrought iron, and historic plastics with known issues



Section 114, Inspection Pipeline Safety

3. Efforts must not erode Pipeline Safety
 - Public Safety
 - Protect the Environment



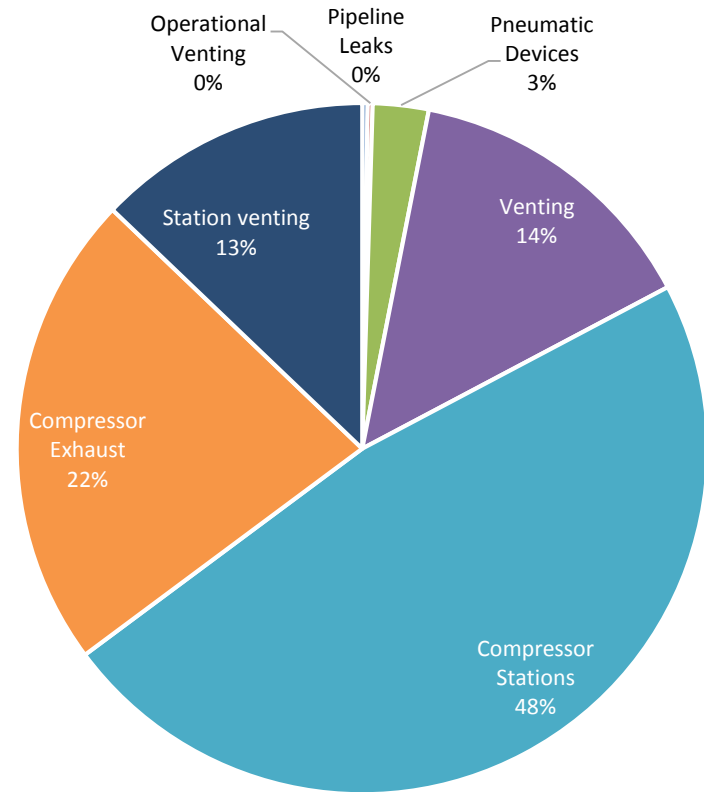
Section 114, Inspection Scope and Timing of Inspections

- Inspections across all pipeline asset types:
 - GT, GD, MM, UNGS, LNG, GG, HL
- PHMSA and State Partners to inspect all Operators in 2022
- Inspect to determine adequacy of Operators' programs
- Establish 5-yr Inspection cycle



Data – Gas Transmission

Source	Kt CH4 in 2018
Pipeline Leaks	3.3
Venting (Normal Operation)	3.0
Pneumatic Devices	34.1
Venting (Maintenance and Upset)	185.0
Compressor Station Leaks	621.2
Compressor Exhaust	291.5
Venting (stations)	167.9
Total	1,306.0

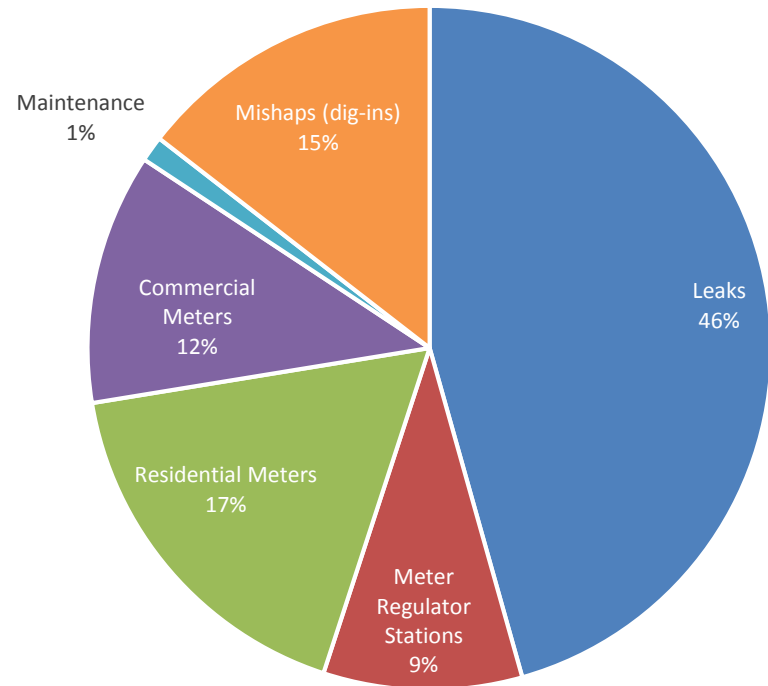


Note: 2018 emissions from the 2020 report are lower than the 2019 estimates on the previous slide, methodology tables are not yet available for the 2021.



Data – Gas Distribution

Source	Kt CH4 in 2018
Service/Mains leaks	215.8
Meter/Regulator stations	44.4
Residential Meters	82.3
Commercial/Industrial Meters	56.1
Maintenance	5.7
Mishaps (dig-ins)	68.6
Net Emissions	472



Inspection Topics for Section 114

- General
- Compressors
- Drivers & Engines
- Leaks & Releases
- Testing
- Flaring
- Regulator Stations
- Leak Mitigation & Repairs



Pilot Inspections

	State	GT	GD	MM	UNGS	LNG	GG	HL
23-Sep	OH						X	
4-Oct	TX	X			X		X	
5-Oct	AK							X
5-Oct	TX							X
8-Oct	CT	X						
12-Oct	TX				X			
12-Oct	UT	X						
14-Oct	OH		X					
14-Oct	PA					X		
19-Oct	FL			X				
19-Oct	TX			X				
20-Oct	IL		X		X	X		
20-Oct	FL			X				
25-Oct	TX	X						



Section 114, Program Milestones

- PIPES Act of 2020, December 2020
- Research Natural Gas Emission Sources
- Advisory Bulletin
- Develop Inspection Criteria
- Conduct Pilot Inspections
- Finalize Inspection Materials
- Inspector Training
- Begin Inspections January 2022

