

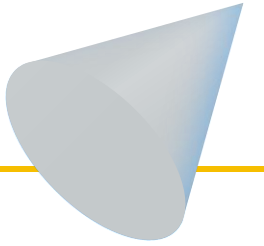


U.S. Department  
of Transportation  
**Pipeline and  
Hazardous Materials  
Safety Administration**



**PHMSA Rule Update**  
Wisconsin 2024  
PHMSA Training and Qualifications

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# Jurisdictional Pipeline Milage

## NATURAL GAS

- 2.3 Million Miles Gas distribution
- 17,000 Miles of Gas Gathering
- 301,501 Miles of Gas Transmission
- Total = 2,619,617

## OIL AND GASOLINE

- 17 Miles Biofuel
- 5,339 Miles of CO2
- 84,795 Miles of Crude Oil
- 75,603 Miles of HVL/Flammable/Toxic
- 64,218 Miles of Refined Products
- Total = 229,971

## STORAGE TANKS

- 9 Biofuel
- 0 CO2
- 3413 Crude Oil
- 299 HVL
- 4960 Refined Products

US DOT Pipeline and Hazardous Materials Safety Administration Portal Data as of 1/18/2023



# Regulatory Hierarchy

## Regulatory Relationships

- U.S. Congress
  - Defines a goal for regulatory reform through directive or law or directly institutes reform through law. Reauthorizes PHMSA.
- NTSB (National Transportation Safety Board)
  - Insures through accident investigation that congresses intent is being met and recommends improvements
- PHMSA (Pipeline and Hazardous Materials Safety Administration)
  - Writes regulations based on reform, participates in industry groups, trains investigators, investigate failures, inspect operators, initiate legal actions and ensures state partners are performing at expected levels.
- State Partners
  - Granted regulative authority through state program agreements to act as PHMSA representatives.
  - PHMSA State Programs ensures that state partners have the tools they need and are performing at an appropriate level

# New Notices of Proposed Rulemakings

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## Leak Detection and Repair NPRM

RIN: 2137-AF51

Published May 18, 2023

- Leak detection and repair (LDAR) program.
- Grade and repair all leaks.
- More frequent leakage surveys and patrols
- Performance standard for LDAR equipment and programs.
- Minimize O&M-related releases.
- Reporting on large releases, leaks discovered, and NPMS participation for regulated gathering.

## Pipeline Safety: Safety of Gas Distribution Pipelines and Other Pipeline Safety Initiatives NPRM

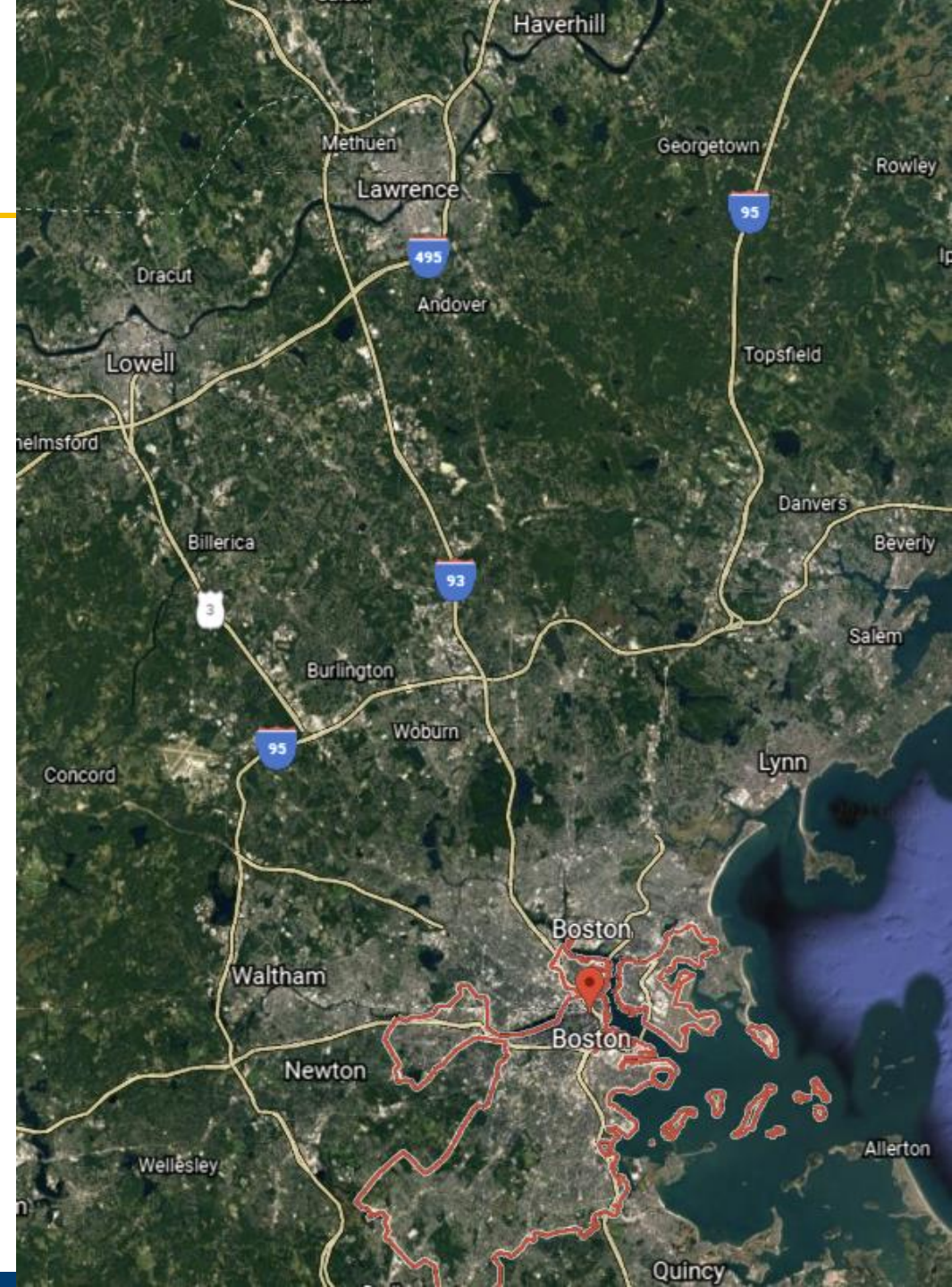
RIN: 2137–AF53

Published September 7, 2023

- Additional construction inspection
- Customer notification of accidents and outages
- MOC for distribution
- Communication with first responders
- Additional pressure regulation and monitoring
- Qualified review of plans and projects

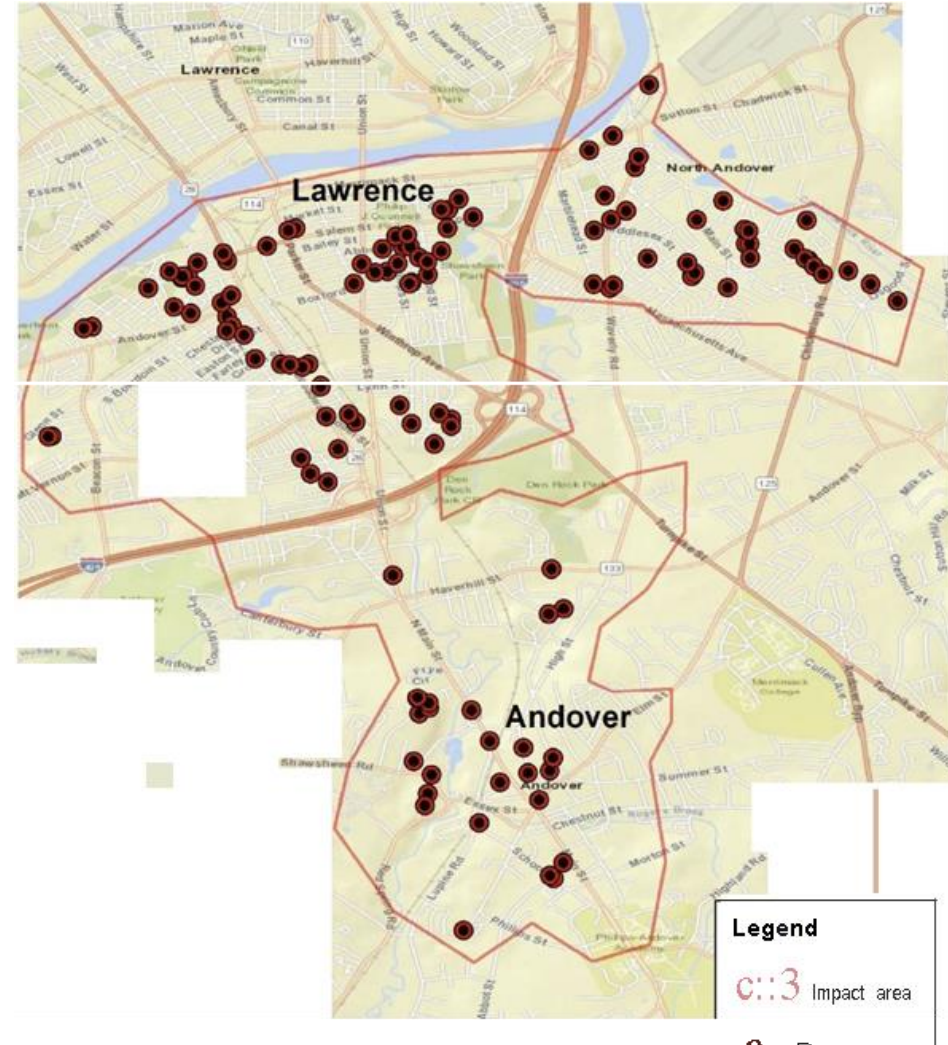
# Merrimack Valley

- Region along the Merrimack River of New Hampshire and Massachusetts.



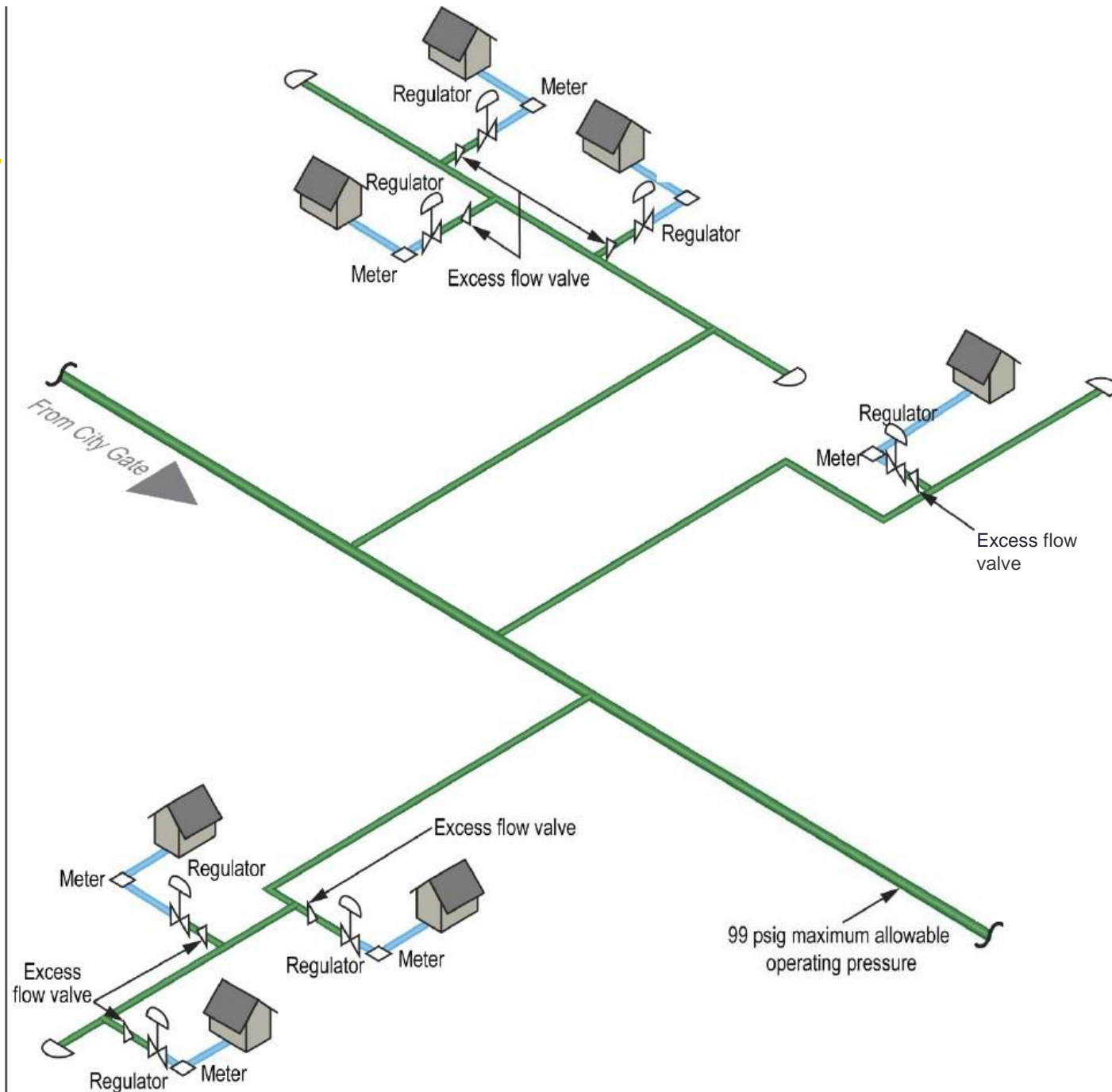
# Merrimack Valley Incident

- September 13, 2018
- Affecting the towns of Lawrence, North Andover and Andover
- 1 fatality
- 22 injuries, 3 were firefighters
- Impacted over 10,000 customers
- 180 Fire Depts
- 140 Law Enforcement Agencies

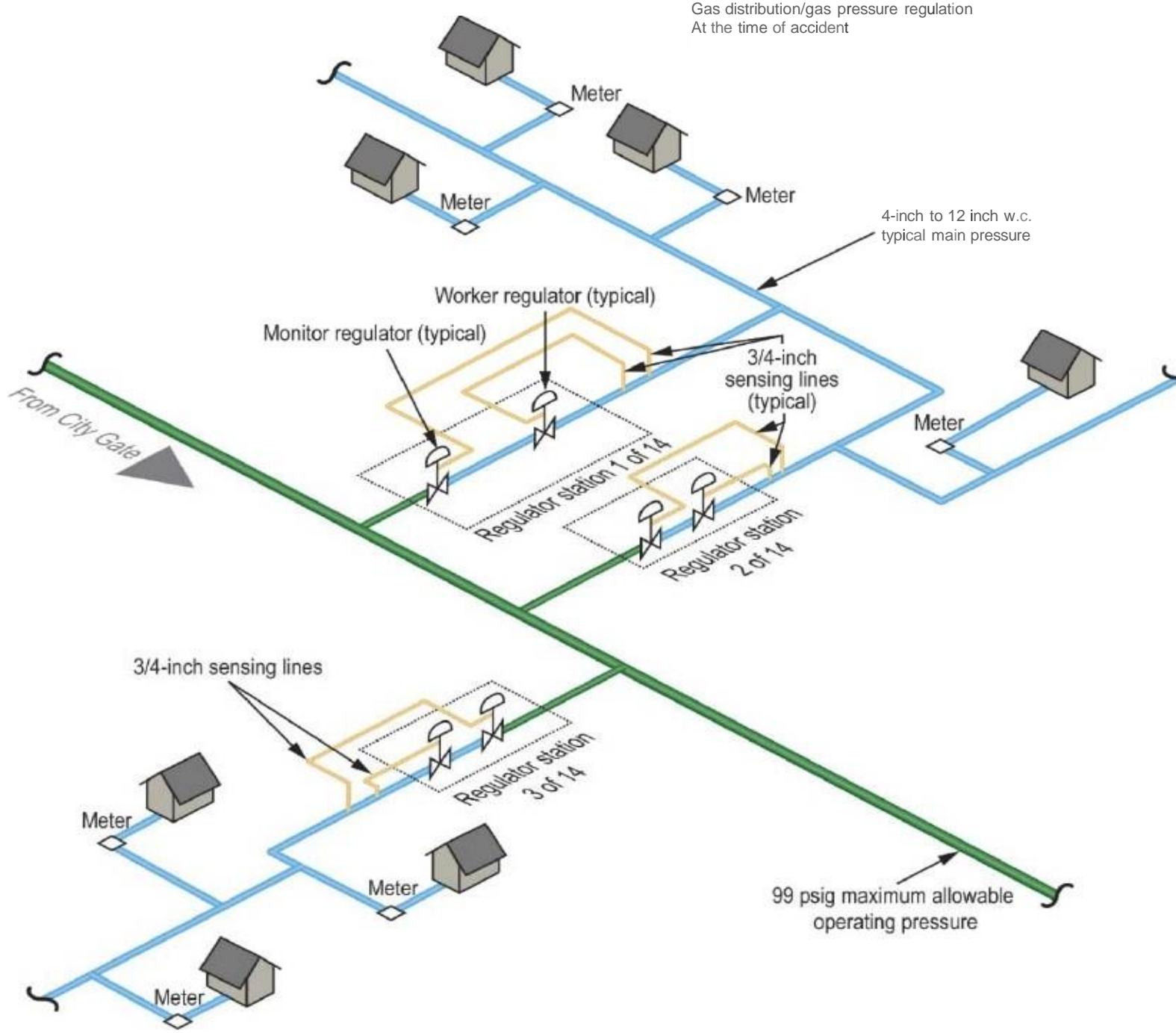


# High Pressure Gas System

- Pressure in the main is higher.
- Pressure regulator at the house to cut pressure before entering the house.

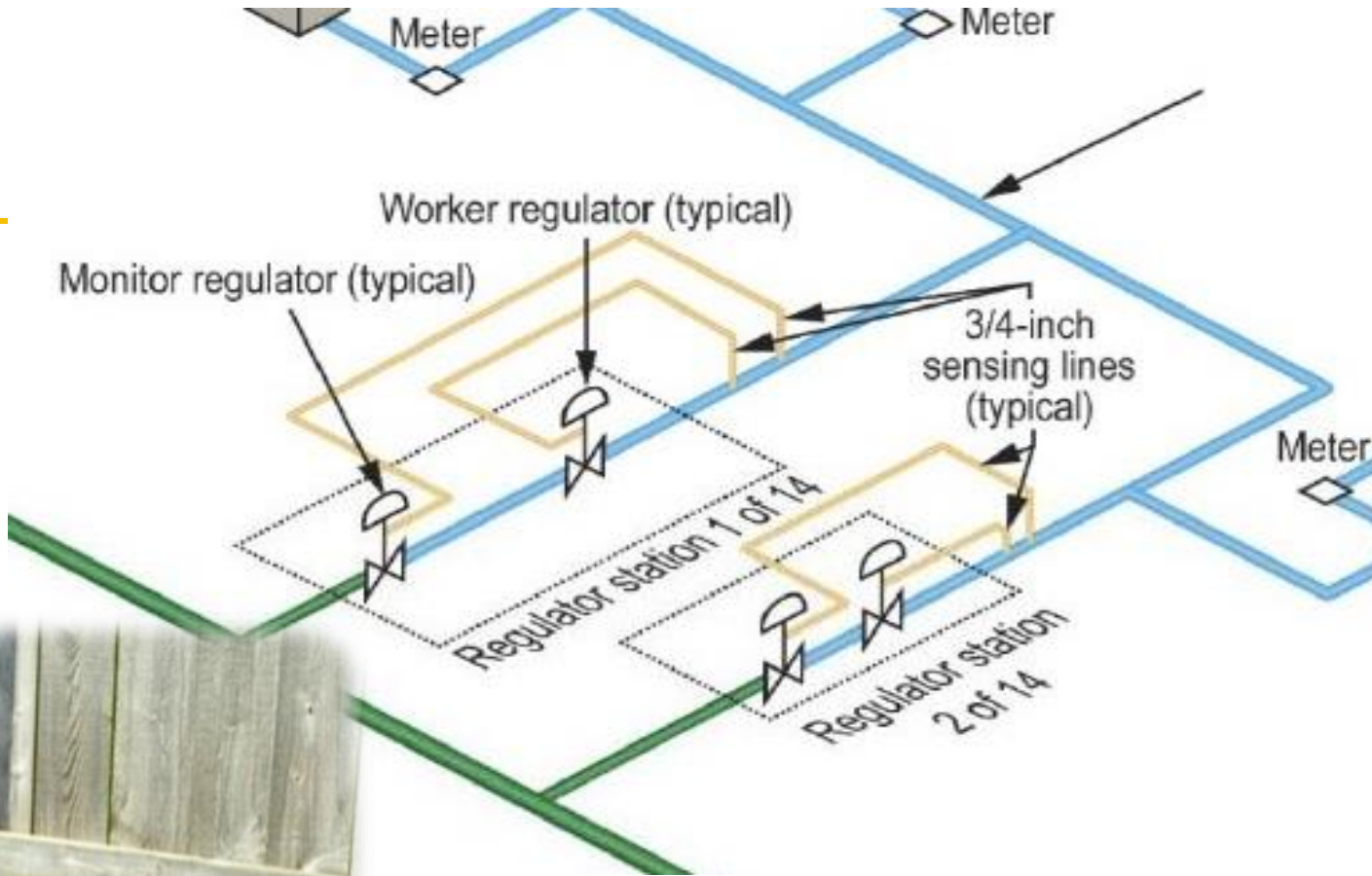


# Low Pressure Gas System



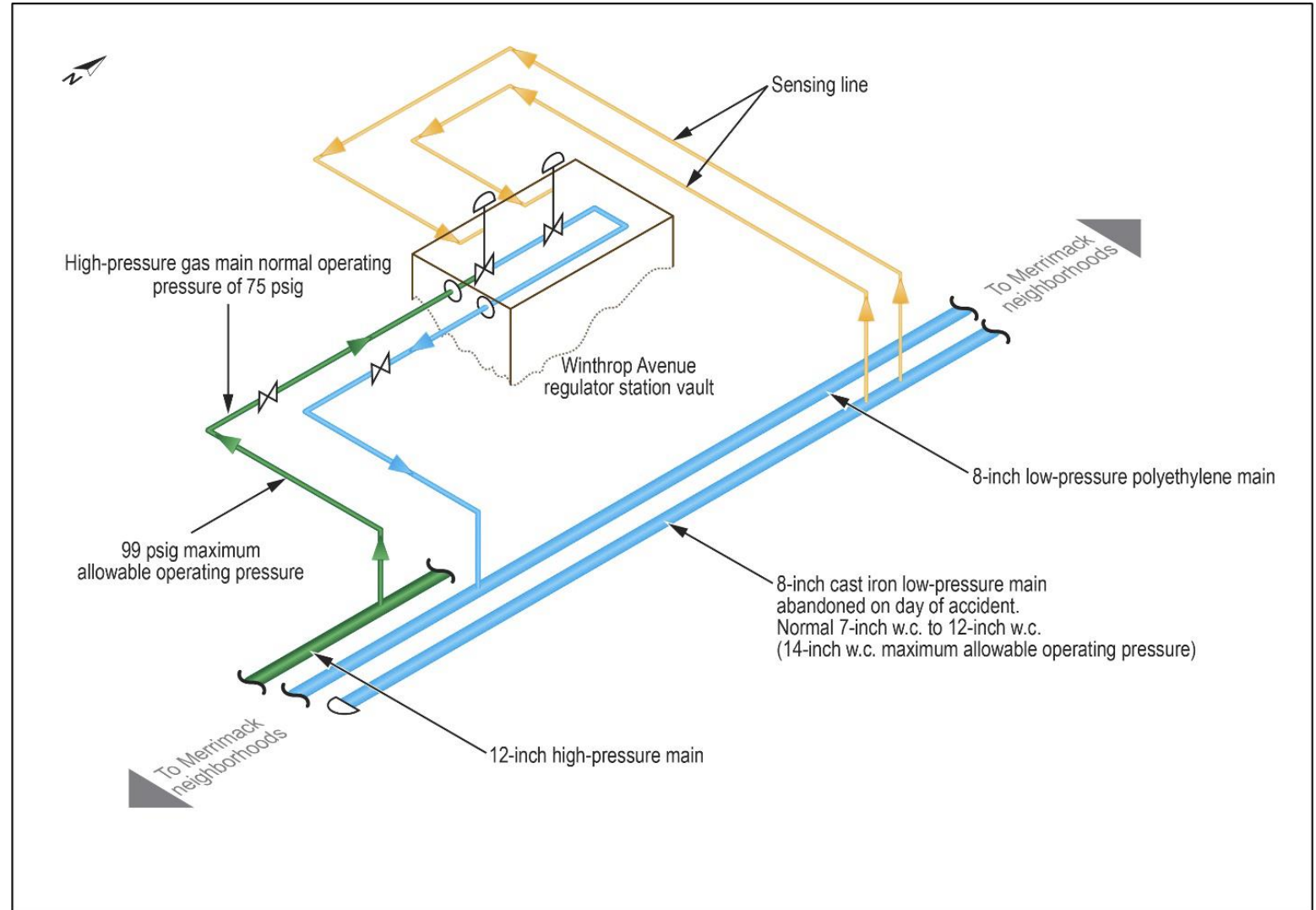


# Regulatory Station Configuration



# Regulator Station at Accident Site

- Sensing lines not mapped
- Abandoned 8" cast-iron main
- Regulators opened up



# Leonel Rondon Act in the PIPES Act of 2020



# 1. Emergency Plans...

Modify the regulations to ensure that operators address establishing communications with first responders, as soon as practicable, from time of confirmed discovery..



NTSB/PAR-21/02

§60102(r)(1)



# 1. Emergency Plans...continued.

- Fire from unintended release
- Explosion
- Fatality
- Customers lost due to unscheduled release of gas

§60102(r)(1)

# 1. Emergency Plans...continued.



Establishing general public communication through an appropriate channels

- About the Emergency
- Status of Public Safety

§60102(r)(2)

## 2. O&M Plans



Modify the regulations to ensure that operators address the response to overpressurization events and specific actions to be taken.

## 2. O&M Plans...Continued



Immediately reduce pressure or shut in when overpressurization happens.



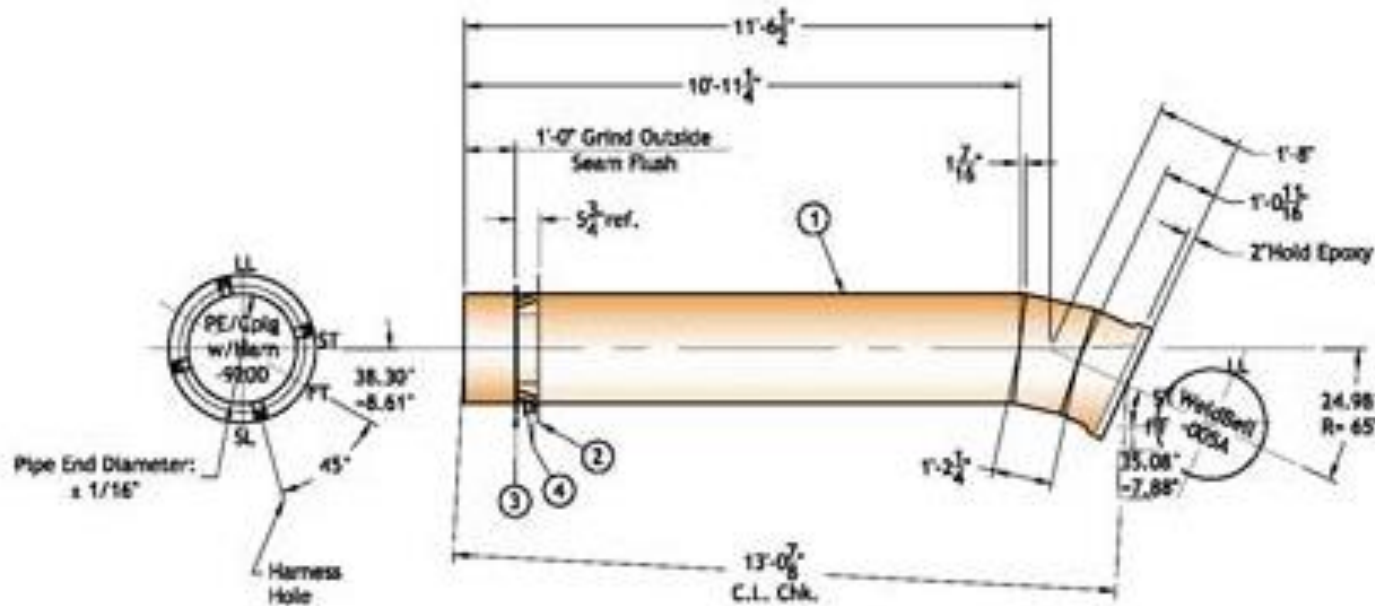
## 2. Management of Change...



- Technology
- Equipment
- Procedural
- Organizational

§60102(s)(2)

## 2. Management of Change...Continued



- Pipeline Design
- Construction

**QUALIFIED**

§60102(s)(2)

### 3. Other Pipeline Safety Practices

Identify and manage traceable, reliable, and complete records

- Pressure controls for Distribution
- Records to support Risk Analysis

§60102(t)(1)

### 3. Other Pipeline Safety Practices...Continued

Person to monitor pressure and promptly shut in, to control overpressurization.

§60102(t)(2)





### 3. Other Pipeline Safety Practices...Continued

Modify designs of pressure control equipment if necessary

§60102(t)(3)(A)

## 4. Risk of Cast Iron...

Modify the regulations to ensure that operators address Cast Iron in DIMP

§60109(e)(7)(A)

## 4. Low Pressure Systems

- Evaluate the risk of the overpressurization a low-pressure gas system.
- Identifying measures to address or mitigate the risk.

§60109(e)(7)(A)



# Additional Resources and Tools

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PHMSA Homepage, Office of Pipeline Safety [www.phmsa.dot.gov](http://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/com>

For Federal Regulations (Official Version) [www.ecfr.gov](http://www.ecfr.gov)





## Questions?

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PHMSA TQ

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