

Louisiana Gas Association

New Orleans, Louisiana



PHMSA Update

August 2 2018

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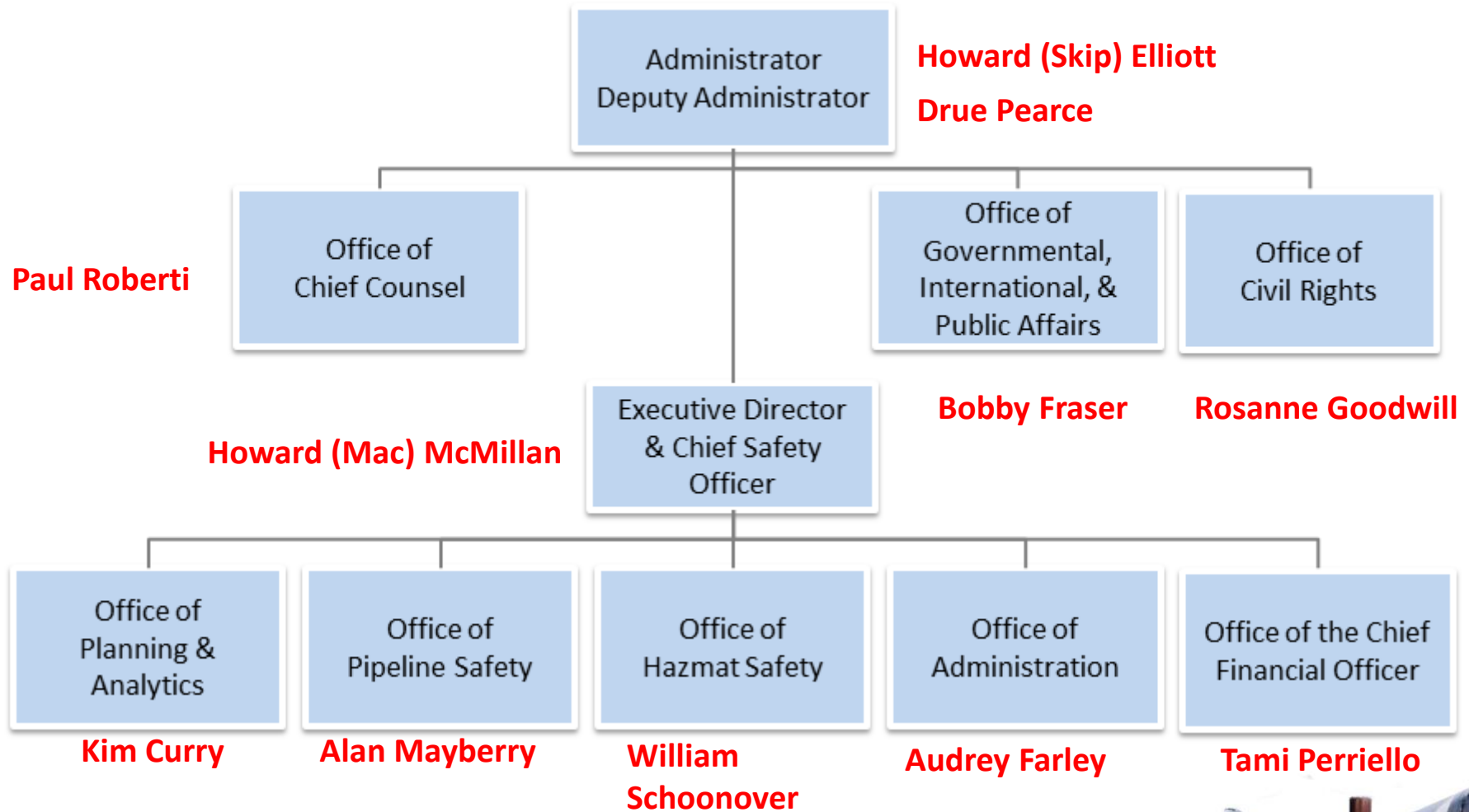
Topics for Today

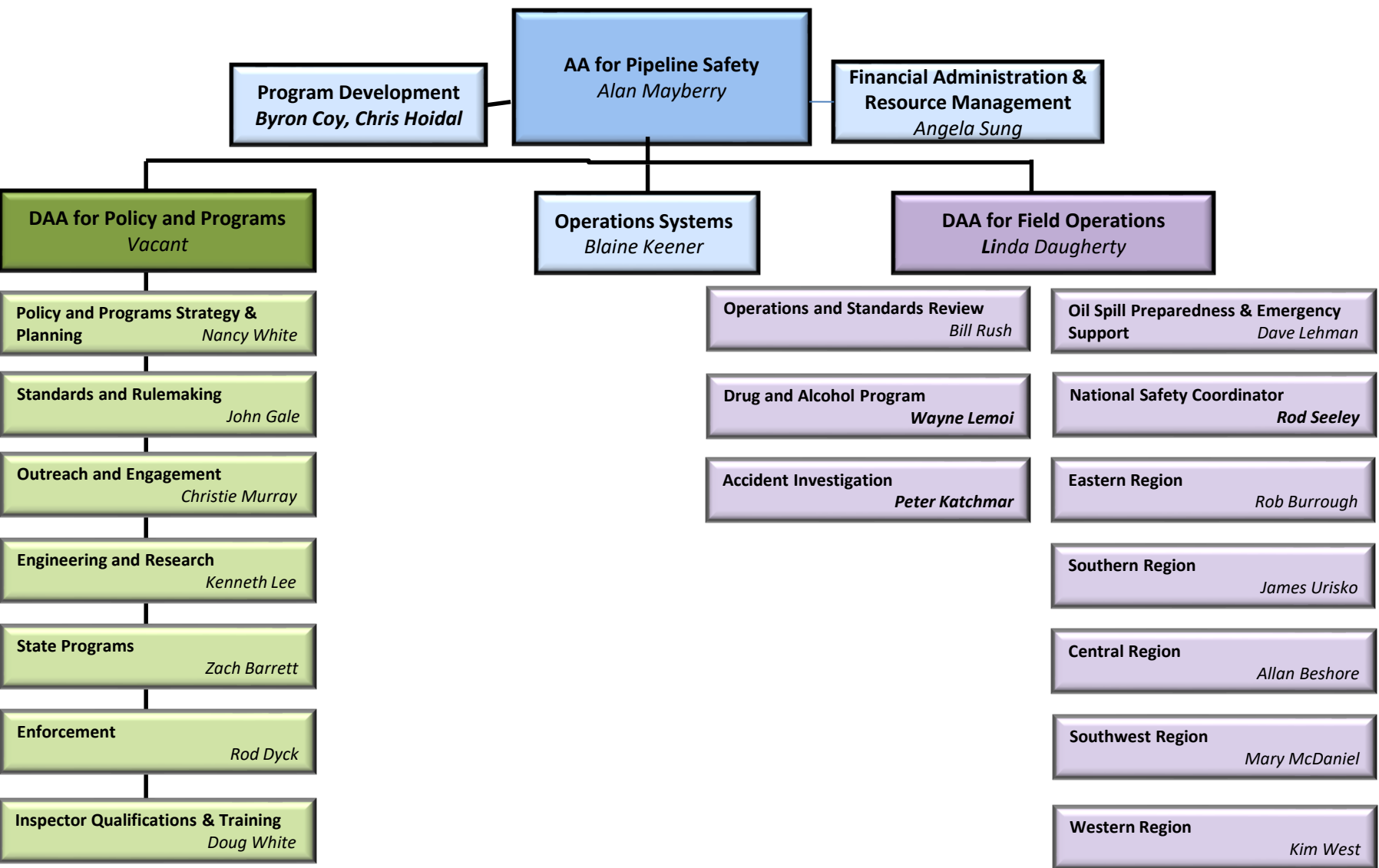
- Organizational Updates
- Highlights from 2017
- Regulatory Reform and Rulemaking
- Accident/Incident Trends
- Lessons Learned
- Upcoming Events

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PHMSA Organization Chart





PHMSA's Underlying Principles

- It is the responsibility of the industry to understand and manage the risks
- Primary role is to establish minimum safety standards and provide oversight to these standards
- To impact safety performance beyond mere compliance with the regulations
- Focus is on PERFORMANCE





CY 2017 Highlights

- Regulatory Reform Agenda
- Implementing Safety Management Systems (SMS)
- Voluntary Information System Working Group
- Inspection focus: construction, inter-region coordination
- Progress on Mandates/Recommendations

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Regulatory Reform

- Regulatory Reform Topics
 - Plastic Pipe Operational Limits
 - Class Location and MAOP
 - Farm Taps
 - Boiler Pressure Vessel Code Safety Factors
 - API-653 Risk Based Inspections
 - Update IBRs – Phased approach
 - Reporting Threshold
- Non-Regulatory Topics
 - How PHMSA conducts inspections – evaluating adequacy
 - How PHMSA provides non-regulatory recommendations



Rulemaking Docket

- Emergency Order (Final)
- Safety of On-Shore Hazardous Liquid Pipelines (Final)
- Safety of Gas Transmission and Gathering Pipelines (Final)
- Plastic Pipe (Final)
- Underground Natural Gas Storage (Final)
- Rupture Detection and Valve (NPRM)
- Class Location (ANPRM)

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Safety of Gas Transmission and Gas Gathering

- **Progress to date:**
 - Completed review of proposed rule related to gas transmission, including: (1) Congressional Mandates and (2) Repair/Assessment and IM Clarification
- **April through early Fall 2018:**
 - Prepare two final Gas Transmission Rules for – (1) Congressional Mandates and MAOP; (2) Repair/Assessments and IM Clarifications
- **Nov/Dec 2018:**
 - Committee to consider Gas Gathering requirements



PHMSA Regulated Pipeline Facilities

Federal and State

CY 2017

Pipeline Facilities by System Type data as-of 6-25-2018			
System Type	Miles	% Miles	# Operators
Hazardous Liquid	215,353 8,037 Tanks	8%	515
Gas Transmission	300,644	11%	1,053
Gas Gathering	18,358	1%	362
Gas Distribution (Mains & Services)	2,235,727	80%	1,362

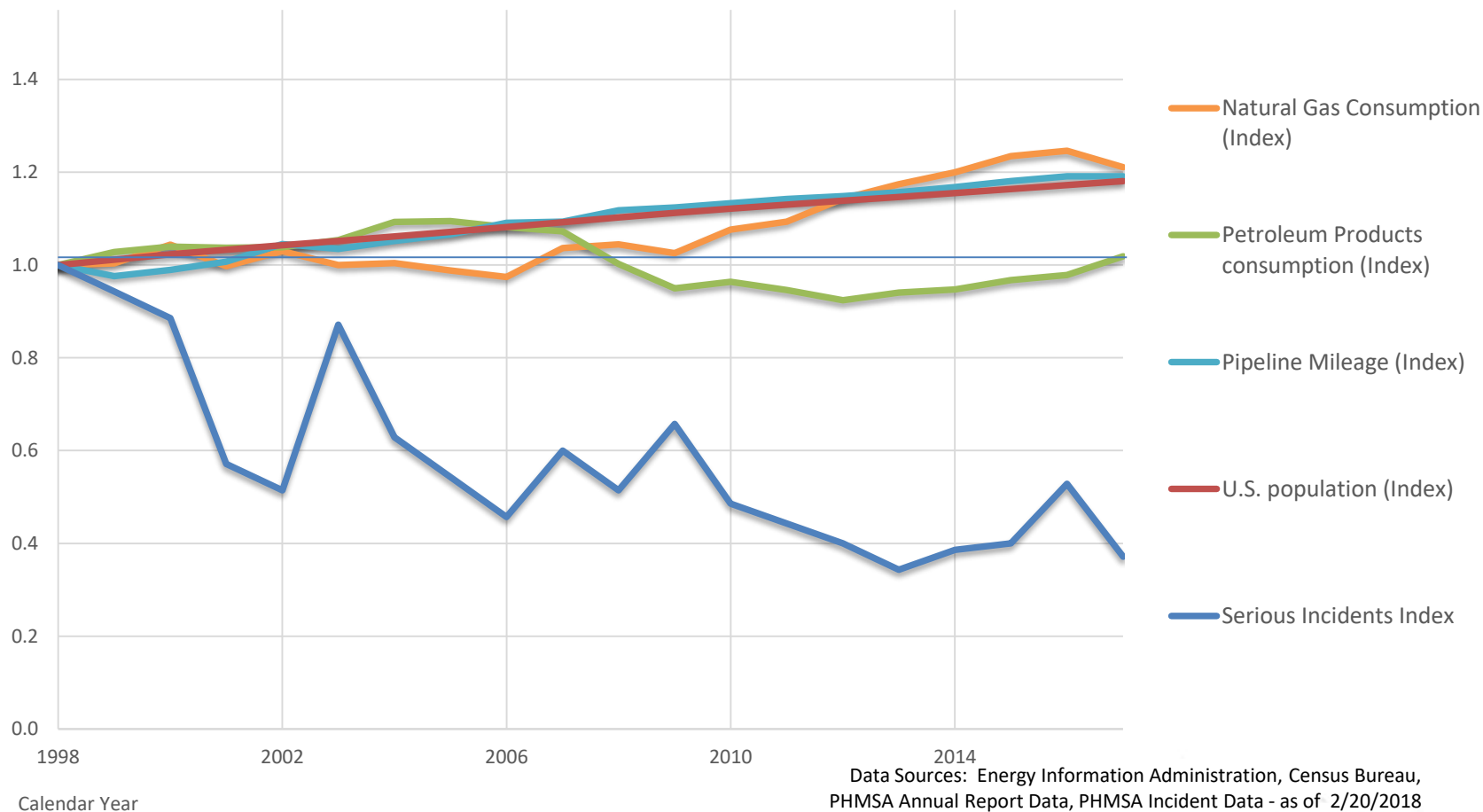
Liquefied Natural Gas	151 Plants, 226 Tanks, 84 Operators
Underground Natural Gas Storage	403 Facilities, 450 Reservoirs 17,542 Wells, 127 Operators

Total Miles 2,770,082	Unique OpID 2,733
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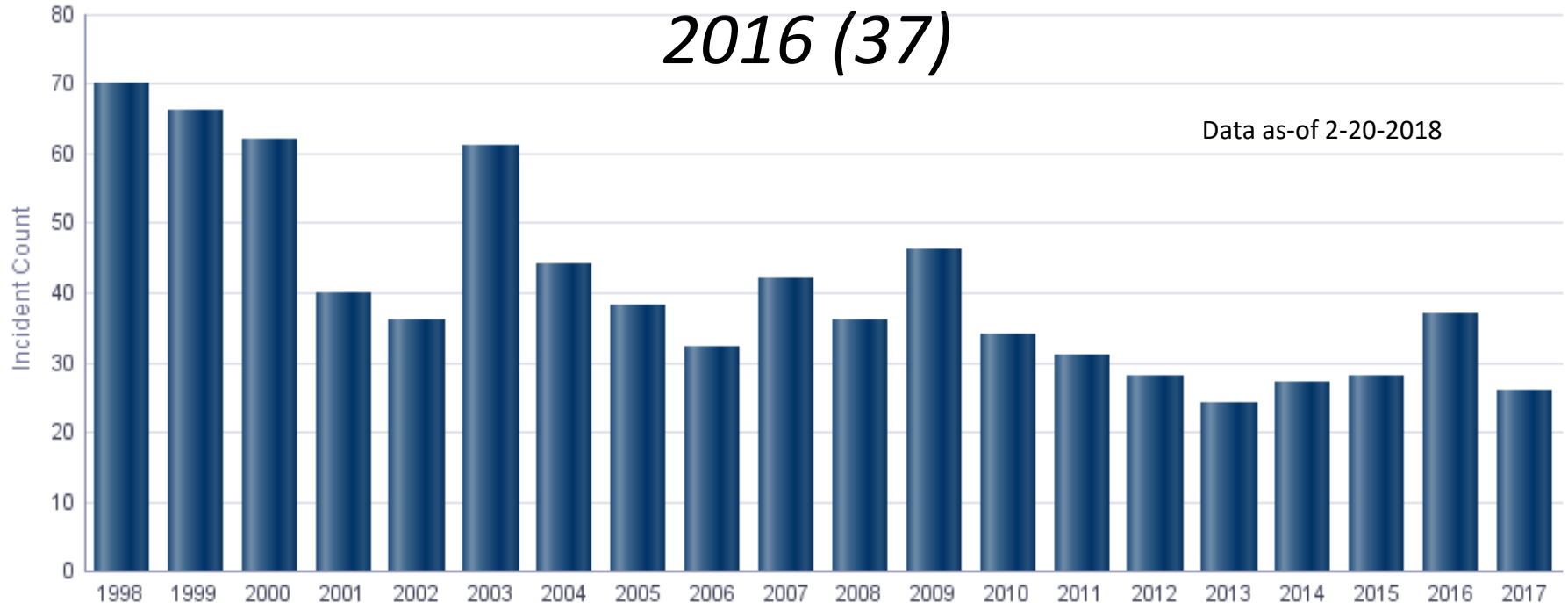
Pipeline Serious Incidents with Context Measures (1998-2017)

Index
(1998 = 1)



Serious Incidents

Serious incidents in 2017 (26) declined 30% from 2016 (37)



26 in CY 2017

85% Gas Distribution

4% Hazardous Liquid

12% Gas Transmission

0% LNG, Gas Gathering,
Underground Natural Gas Storage



2017 Serious Incidents by Cause

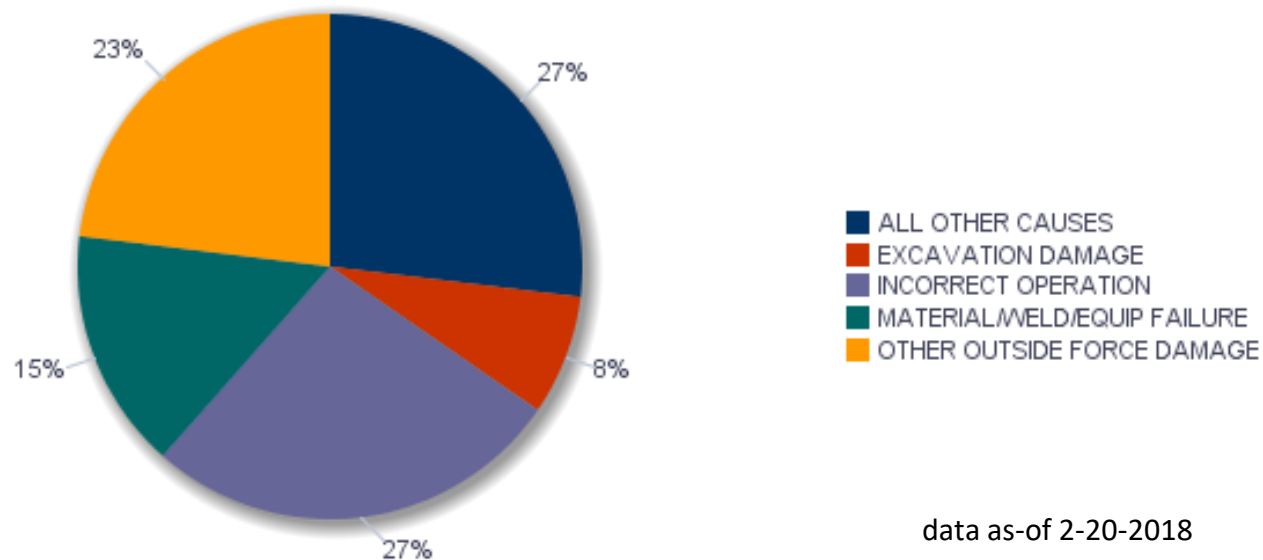
CY 2017 Leading Causes:

Incorrect Operation

Other

Other Outside Force Damage

Excavation Damage only 8%



2016 Serious Incidents by Cause

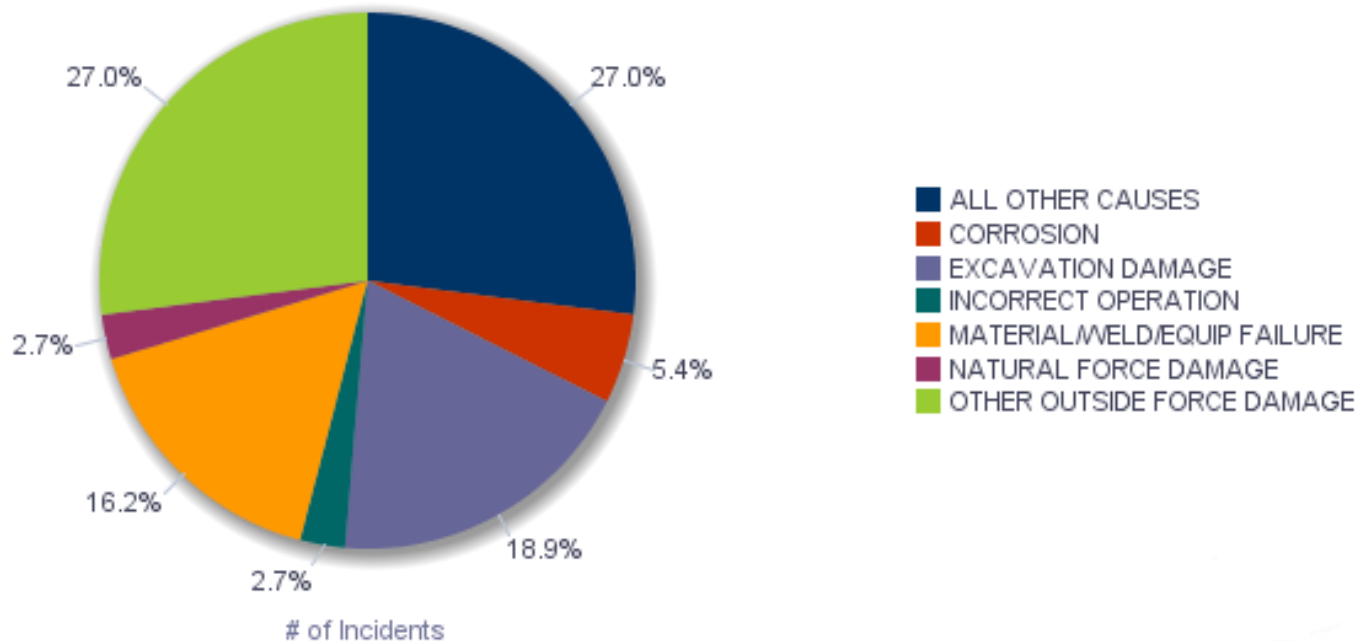
CY 2016 Leading Causes:

Other Outside Force Damage

Other

Excavation Damage

Excavation Damage 18.9%



2017 Gas Distribution Serious Incidents

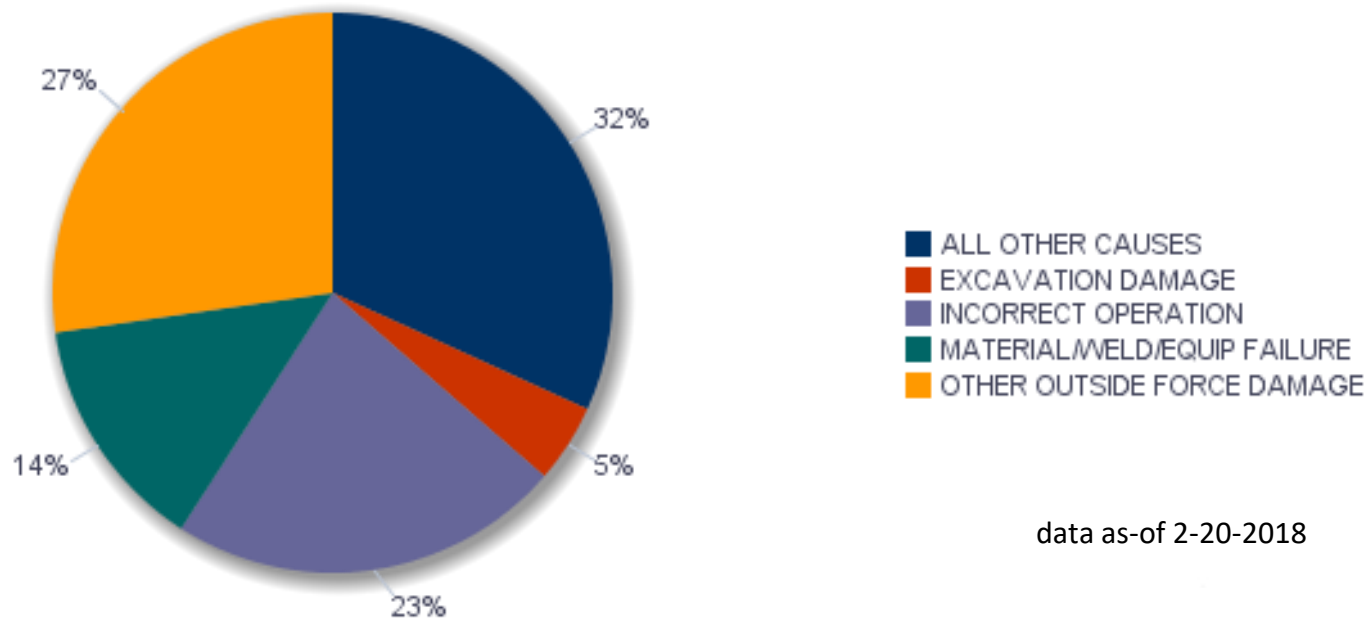
CY 2017 Leading Causes:

Other

Other Outside Force Damage

Incorrect Operation

Excavation Damage 5%

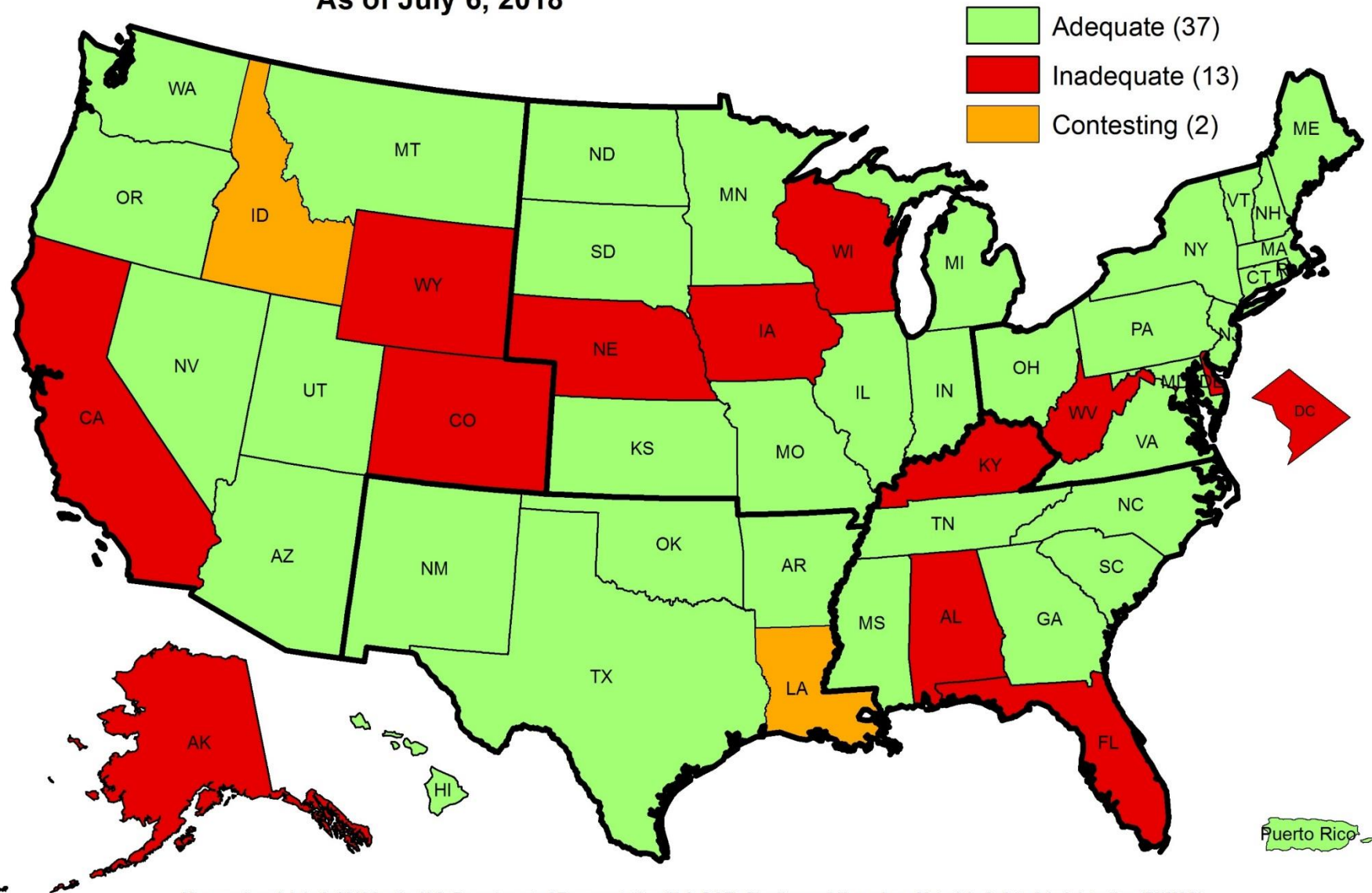


data as-of 2-20-2018



Adequacy of One-Call Law Enforcement Programs

As of July 6, 2018



Map produced July 6, 2018 by the U.S. Department of Transportation (U.S. DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA)

Map provided as a reference only. PHMSA makes no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to this map for any purpose. PHMSA expressly disclaims liability for errors and omissions in the contents of this map.

Gas Distribution Leaks Eliminated by Cause

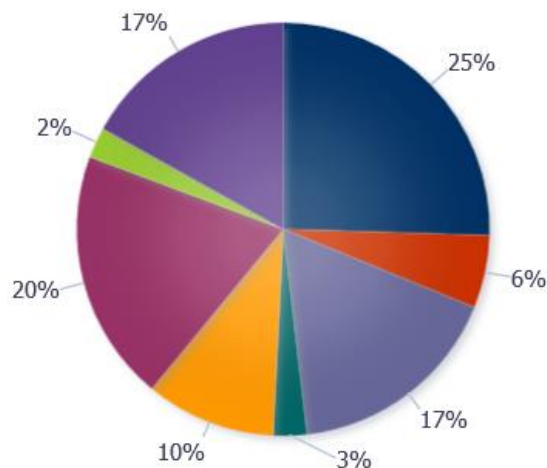
2005 - 2017

Leading cause of **Hazardous Leaks** is Excavation Damage

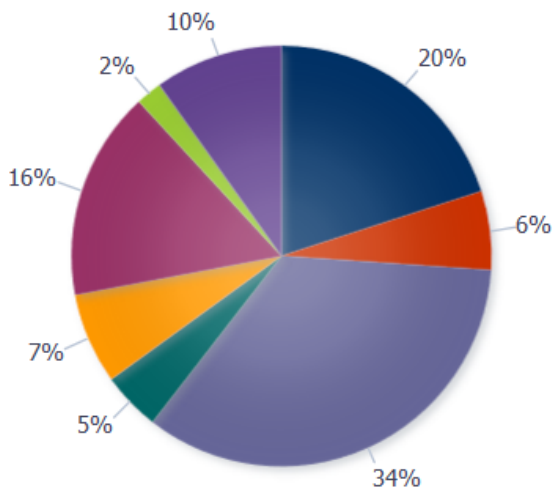
Accounts for 34% of Hazardous Leaks, but only 17% of Leaks

For more than a decade, PHMSA has been an active participant in national, regional, and State efforts to improve excavation damage prevention.

Leaks Eliminated



Hazardous Leaks Eliminated



Data as of: 3-28-2018

- Corrosion
- Natural Force Damage
- Excavation
- Other Outside Force Damage
- Materials/Welds
- Equipment
- Operations
- Other



Lessons Learned

- Operators don't always know their systems as well as they need to for successful risk management
- IMP is a good foundation that must be built upon
 - Safety Management Systems – API RP 1173
- Construction challenges remain



Upcoming Events

- Risk Modeling (follow up) Workshop TBD
- R&D Forum, Baltimore Sep 11,12
- Gas Pipeline Advisory Committee Sep/Oct
- VIS Working Group Aug/Oct/Dec
- Public Awareness Nov/Dec



Questions?



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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."

