

**US DOT  
Pipeline and Hazardous Materials  
Safety Administration (PHMSA)**

**New Data, New Metrics  
Pipeline Safety Trust (PST)  
Annual Conference**

**November 2, 2017  
Blaine Keener**



**Know what's below.  
Call before you dig.**



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

To Protect People and the Environment From the Risks of  
Hazardous Materials Transportation



# New PHMSA Data

- Underground Natural Gas Storage (UNGS) Facility Incident Reports - collection started in 2017 using the Gas Transmission/Gas Gathering incident report form
- UNGS Facility Annual Reports - collection starts in 2018 with reports for calendar year 2017
- Failed attempt to revamp Incident Reports
  - Revamp project started in 2014 with multiple stakeholders
  - In July 2017, Office of Management & Budget (OMB) rejected proposed revamp of hazardous liquid accident report
  - OMB has been considering proposed revamp of three gas incident report forms since April 2017, but has not made a decision



# New PHMSA Website

- PHMSA Home Page <https://www.phmsa.dot.gov>
- Pipeline Data and Statistics  
<https://www.phmsa.dot.gov/data-and-statistics/pipeline/data-and-statistics-overview>
  - Pipeline Operator Safety Program Data
  - National Pipeline Performance Measures
  - State Pipeline Performance Measures
  - Source Data
- Pipeline Forms – current and historical version of reports  
<https://www.phmsa.dot.gov/forms/pipeline-forms>



# National Pipeline Performance Measures

- Crude Oil/Refined Petroleum/Biofuel Pipeline Performance Measures
- Gas Pipeline Performance Measures
- Pipeline Mileage and Facilities
- Pipeline Incidents: 20-Year Trends
- Incidents Caused by Excavation Damage
- Integrity Management (IM) Performance Metrics
- Incidents and Leaks Repaired on Federal Land or Outer Continental Shelf (OCS)



# Gas Distribution Performance Measures

*published late 2015*

***Serious Incident per Mile*** trend & cause pie

***Significant Incident per Mile*** 3 trends

***Leaks per Mile*** 3 trends & 2 cause pies

***Excavation Damage*** 2 trends

***Cast and Wrought Iron*** 2 trends

***Steel Miles – Bare and Unprotected*** 3 trends

***Miles by Decade Installed*** 6 trends



# Gas Transmission Performance Measures

*published late 2015*

***Serious Incident per Mile*** trend & cause pie

***Onshore Significant Incident per Mile*** 3 trends,  
also ***HCA and non-HCA*** trends & cause pies

***HCA Immediate Repair per Mile*** trend

***HCA Leaks & ILI Detectability*** 2 trends & cause pies

***Steel Miles – Bare and Unprotected*** 2 trends

***Miles by Decade Installed*** 5 trends

***Onshore Pipeline Significant Incident Rates per Decade*** rate chart and cause chart



# Crude Oil/Refined Petroleum/Biofuel Pipeline Performance Measures

*published late 2017*

***Serious Incidents*** rate per mile and causes

***Accidents Impacting People or the Environment***  
rate per mile and volume spilled per barrel-mile transported. Displayed for all causes, Integrity Inspection targets, and Operations and Maintenance targets.

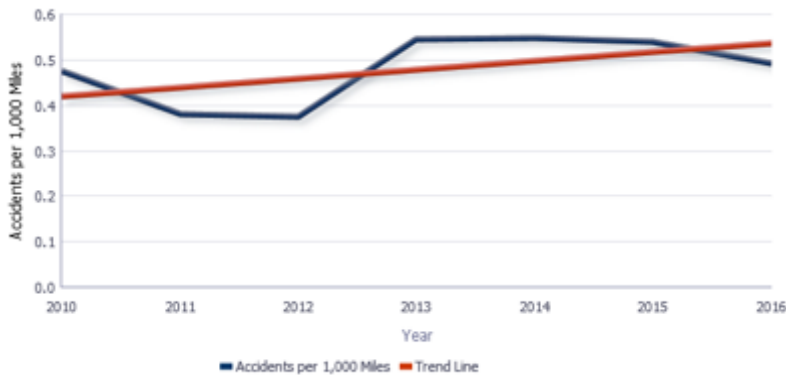
***Miles Inspected*** by year and inspection method

Access to accident report details, by-OpID view, and by-Safety Program view



# Crude Oil/Refined Petroleum/Biofuel Pipeline Accidents Impacting People or the Environment

Rate per Mile



Barrels Spilled per Barrel-Mile Transported

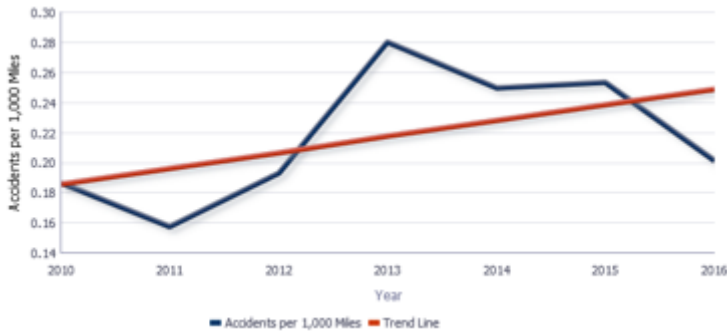




# Crude Oil/Refined Petroleum/Biofuel Pipeline Accidents Impacting People or the Environment

## Integrity Inspection Targets

Rate per Mile



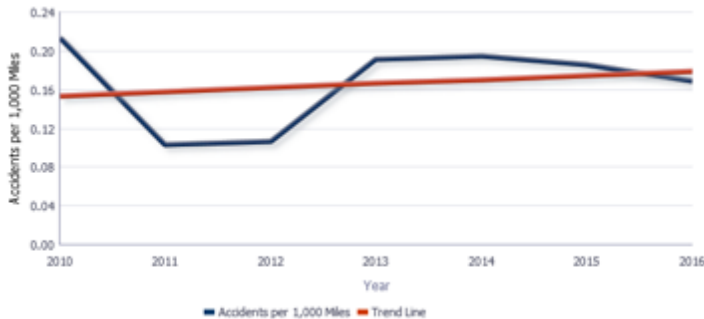
Barrels Spilled per Barrel-Mile Transported



# Crude Oil/Refined Petroleum/Biofuel Pipeline Accidents Impacting People or the Environment

## Operations and Maintenance Targets

Rate per Mile



Barrels Spilled per Barrel-Mile Transported



# Questions?



**Blaine.Keener@dot.gov**

**202-366-0970**



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