

# West Virginia Public Service Commission Gas Pipeline Safety Section

Oil and Natural Gas Industry Workshop

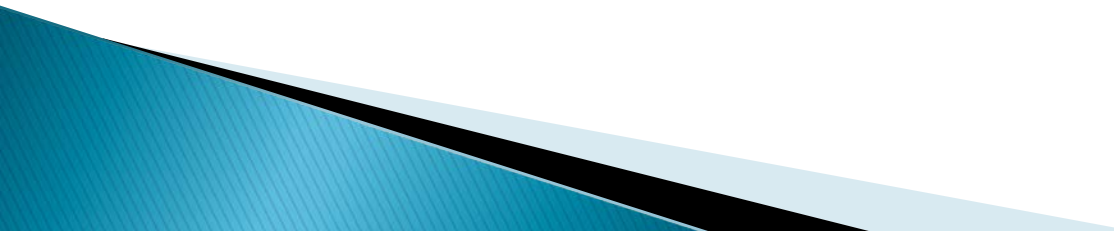
May 16, 2013

Charleston Civic Center  
Charleston, West Virginia

# Update from 201 Brooks Street...



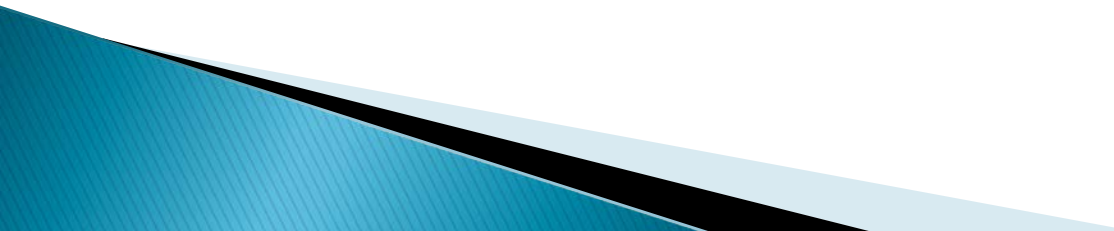
# Gas Pipeline Safety Section

- ▶ Legislative History
  - ▶ Staff
  - ▶ Data / Statistics
  - ▶ Ongoing Investigations
  - ▶ WV Pipeline Safety Issues
- 

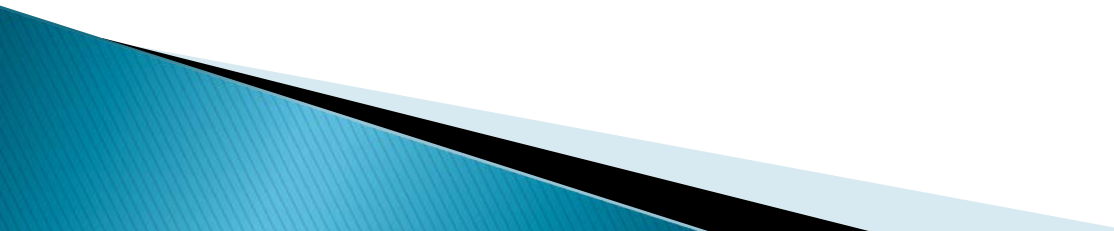
# History

- ▶ **Natural Gas Pipeline Safety Act of 1968**  
Delegates regulation of natural gas pipelines to the US Dept. of Transportation
- ▶ **Hazardous Liquid Pipeline Safety Act of 1979**  
Delegates regulation of hazardous liquid pipelines to the US Dept. of Transportation
- ▶ **West Virginia Code, Chapter 24B** Authorizes WV PSC to prescribe and enforce safety standards consistent with Acts of 1968 and 1979

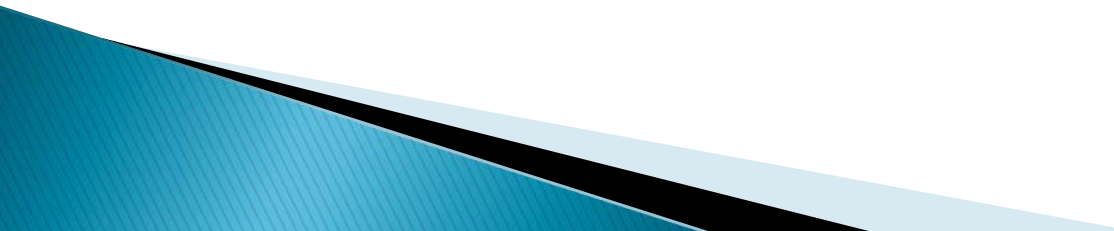
# More History...

- ▶ WV regulates intrastate pipelines by **Certification** to the Office of Pipeline Safety (PHMSA)
  - ▶ OPS evaluates our program annually to verify compliance with our certification
  - ▶ WV inspects interstate pipelines pursuant to **Interstate Agent Agreement** with DOT
  - ▶ WV is one of 9 interstate agent states for NG
- 

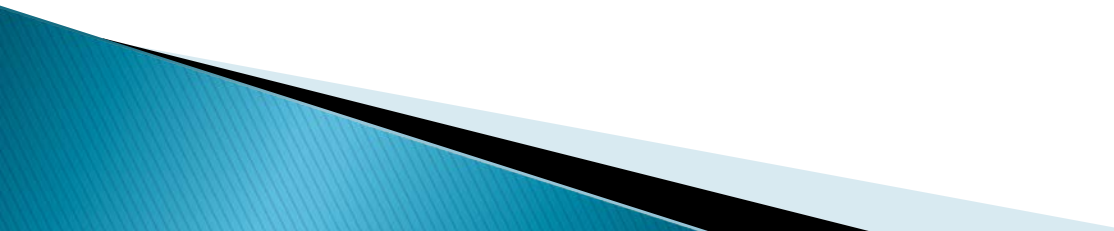
# Regulations

- ▶ **Federal:** Title 49, Part 192, Transportation of Natural and Other Gas by Pipeline
  - ▶ **Federal:** Title 49, Part 195, Transportation of Hazardous Liquids by Pipeline
  - ▶ **State:** 150 CSR 4, Rules for the Government of Gas Utilities and Pipeline Safety, effective March 4, 2007
- 

# Funding

- ▶ The Gas Pipeline Safety Section is funded through special revenue
  - ▶ About 65% of our funding is through a grant from the Office of Pipeline Safety
  - ▶ Remaining funding is through pipeline assessments of interstate and intrastate operators
- 

# Our Staff...

- ▶ Girija Bajpayee 340-0465
  - ▶ Corey Boggess 340-0814
  - ▶ Ed Clarkson 340-0465
  - ▶ Bill Youse 340-0878
  - ▶ Dave Hippchen 340-0393
  - ▶ Julie Caton - Office Assistant 340-0465
- 



# Pipeline Operators in WV

- |                            |      |       |
|----------------------------|------|-------|
| ▶ Interstate Transmission  | 6    |       |
| ▶ Intrastate Transmission  | 11-G | 5-HL  |
| ▶ Jurisdictional Gathering | 23   |       |
| ▶ Local Distribution       | 15-G | 1-LPG |
| ▶ Master Meters            | 45   |       |
- 
- ▶ As of 12-31-12

# Pipeline Mileage in WV

- ▶ Transmission 4,034
- ▶ Gathering 555
- ▶ Distribution 10,561
- ▶ Hazardous Liquid 182
  
- ▶ Top 4 counties: Kanawha, Marshall,  
Wetzel & Doddridge

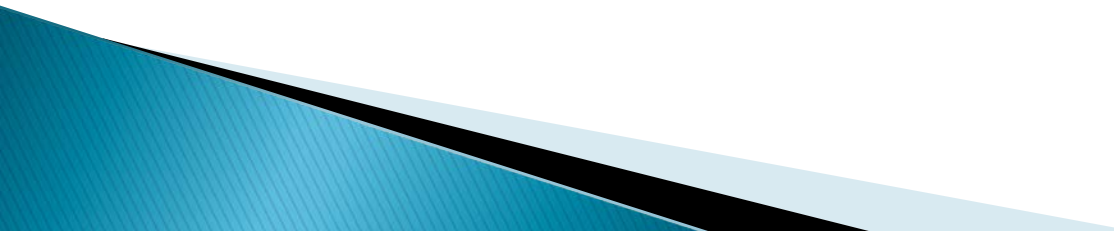
# Incidents – Distribution

Year	No.	Fatalities	Injuries	Damages
2008	0	0	0	0
2009	0	0	0	0
▶ 2010	0	0	0	0
▶ 2011	0	0	0	0
▶ 2012	0	0	0	0

# Incidents – Transmission

Year	No.	Fatalities	Injuries	Damages
2008	1	0	0	\$ 13,500
2009	4	0	1	\$ 856,920
2010	0	0	0	\$ 0
2011	0	0	0	\$ 0
2012	4	0	0	\$ 304,485
Totals	9	0	1	\$ 1,174,905

# Incidents

- ▶ Columbia - Adaline Station (1-21-12)
  - ▶ EQT Midstream - Copley Run Station (4-7-12)
  - ▶ Columbia - Flat Top Station (10-30-12)
  - ▶ Columbia - Line SM-80 (12-11-12)
- 











12/11/2012



12/11/2012

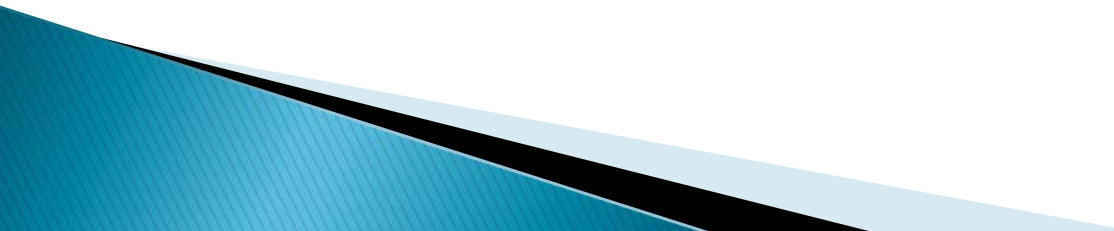


12/11/2012

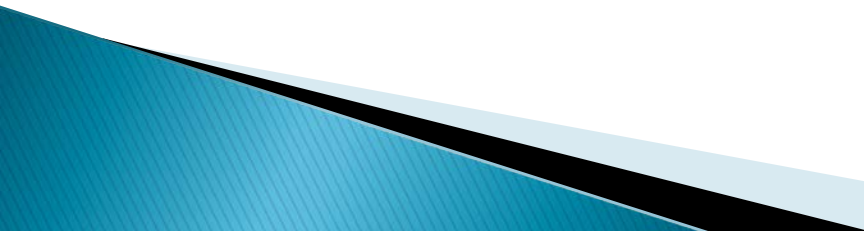


12/11/2012

# NTSB Investigates

- ▶ NTSB can override PHMSA and State jurisdiction for transportation accidents
  - ▶ Team arrived on-scene December 12
  - ▶ Team concluded onsite inspection Dec. 18
- 

# NTSB Investigation Elements

- ▶ Design and Construction
  - ▶ Metallurgical properties
  - ▶ Operation and Maintenance Practices
  - ▶ Control Room Management
  - ▶ Emergency Plan Implementation
  - ▶ Integrity Management Assessments
  - ▶ Road Crossings and HCAs
  - ▶ Valve Closure
  - ▶ Prior PHMSA / WV PSC Inspections
- 

# SM-80 Details

- ▶ 20" diameter, 0.281" wt, X-60 ERW
- ▶ MAOP 1000 psi
- ▶ Failure pressure 929 psi
- ▶ Time of failure 12:41 pm, 12-11-2012
- ▶ Downstream valves closed 1:20 pm
- ▶ Upstream valves closed 1:36 pm
- ▶ 3 homes destroyed, several damaged
- ▶ No fatalities, no injuries
- ▶ General wall thinning over 2' x 6' area
- ▶ Minimum wall thickness 0.078"



12/12/2012







12/12/2012





12/13/20





12/12/2012

16+9EE-1  
12 O'CLOCK  
← FLOW  
SN-80  
N EST  
DPSRPM  
END

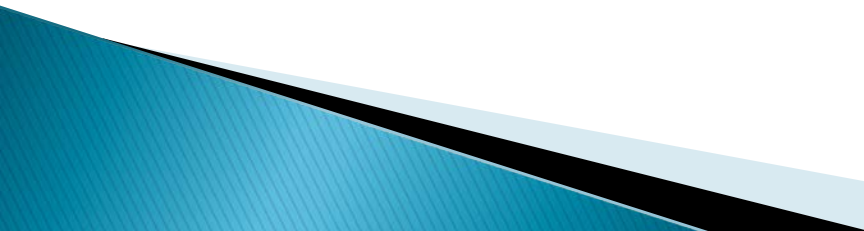
02/19/2013



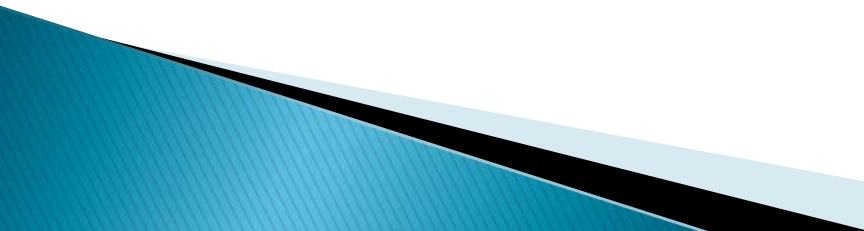
02/19/2013



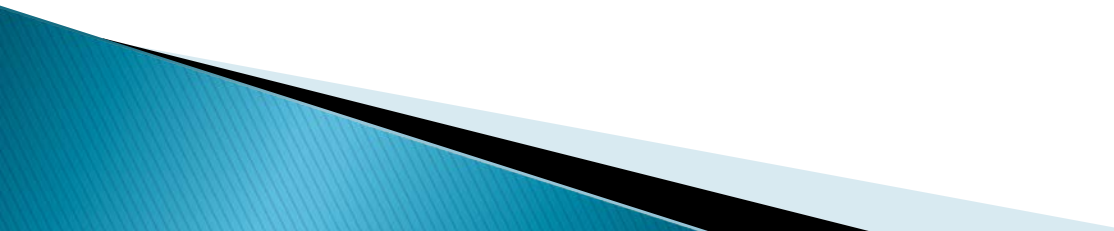
# NTSB Investigation

- ▶ Will issue a factual report and an analysis report
  - ▶ Factual report provided to parties
  - ▶ Analysis report not available until final report is issued
  - ▶ Recommendations included with analysis
  - ▶ Process usually takes 6 - 12 months
  - ▶ Preliminary report issued 1-16-2013
- 

# Pipeline Safety, Regulatory Certainty and Job Creation Act of 2011

- ▶ Bill signed by President on Jan. 3, 2012
  - ▶ Pipeline Damage Prevention
  - ▶ Automatic or Remote-Controlled Valves
  - ▶ Integrity Management
  - ▶ Public Education and Awareness
  - ▶ Incident Notifications
  - ▶ Gas and Hazardous Liquid Gathering Lines
  - ▶ MAOP
- 

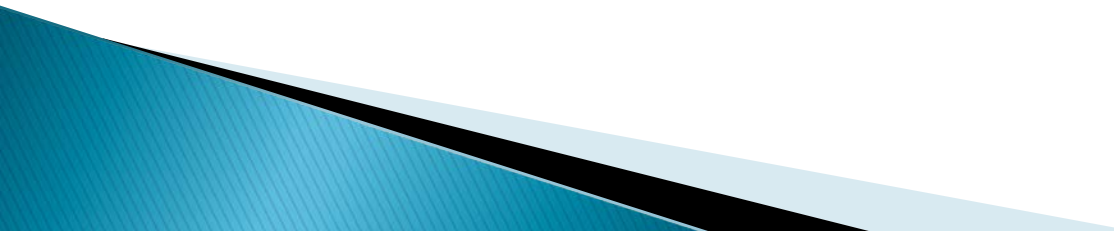
# Excavation Study Report

- ▶ Frequency & severity of incidents
  - ▶ Analysis of exemptions
  - ▶ Comparisons of exemptions to types of incidents
  - ▶ Pros and cons for eliminating mechanized excavation exemptions
  - ▶ Due by 1-3-2014
- 

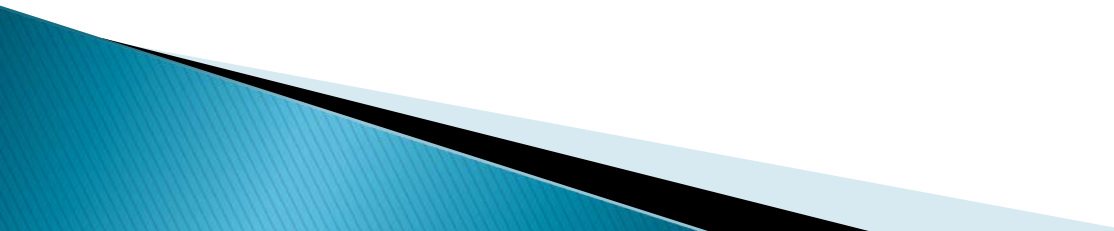
# Automatic/Remote Valves

- ▶ GAO study issued 1-23-2013
- ▶ Improve the reliability of incident response data
- ▶ Use PHMSA info-sharing system to alert pipeline operators of enforcement guidance and decision-making approaches to install automated valves
- ▶ **NTSB: Time for PG&E to shut off flow of gas at San Bruno (95 minutes) was excessive**

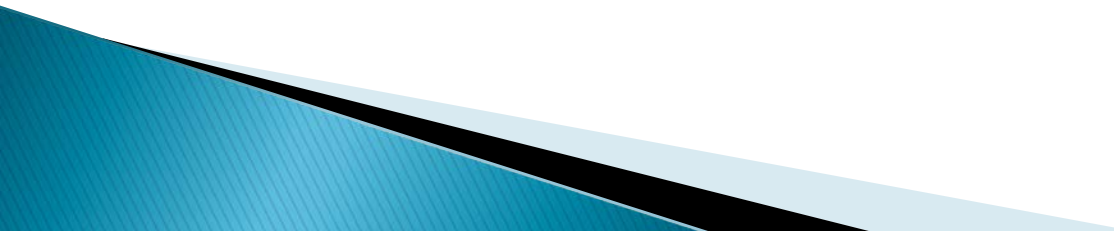
# Automatic / Remote Valves

- ▶ DOT to publish NPRM for installation of AO/RC valves on new or replaced segments
  - ▶ Where economically, technically, or operationally feasible
  - ▶ Due by 1-3-2014
- 

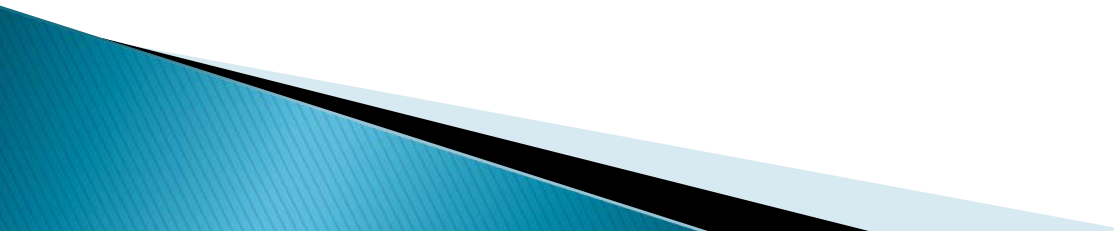
# Integrity Management

- ▶ DOT to evaluate whether IMP requirements to be extended beyond HCAs
  - ▶ DOT to evaluate if implementing Item 1 allows elimination of class location units
  - ▶ NPRM on or before 1-3-2014
  - ▶ Congress to review DOT report no later than 1-3-2015
  - ▶ GAO to study revising reassessment interval from 7 years to risk based alternative
- 

# Accident / Incident Notifications

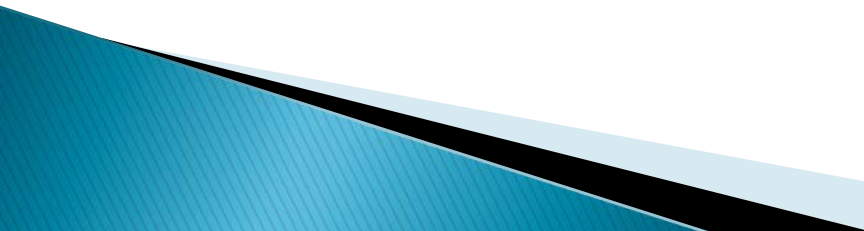
- ▶ DOT to revise regulations to establish time limits for telephonic / electronic notifications
  - ▶ One hour time limit following *confirmed* discovery
  - ▶ By 7-3-2013
- 

# Gathering Lines

- ▶ DOT to review and report to assess:
  - ▶ Sufficiency of existing state and federal regulations
  - ▶ Economic and technical practicality of extending federal regulations to non-DOT lines
  - ▶ Need to revoke exemptions based on risk
  - ▶ Due by 1-3-2014
- 



# Gathering Lines

- ▶ 192.8: Beginning, end points of gathering; Type A and Type B lines
  - ▶ 192.9: What code compliance activities are required for Type A and Type B lines
  - ▶ 150 CSR 4, Sections 9 and 11 (Regarding “rural” and “non-rural” definitions, and inspection and maintenance plans)
  - ▶ 35 CSR 4, Section 16.7 (All production and gathering lines not regulated by US DOT)
- 

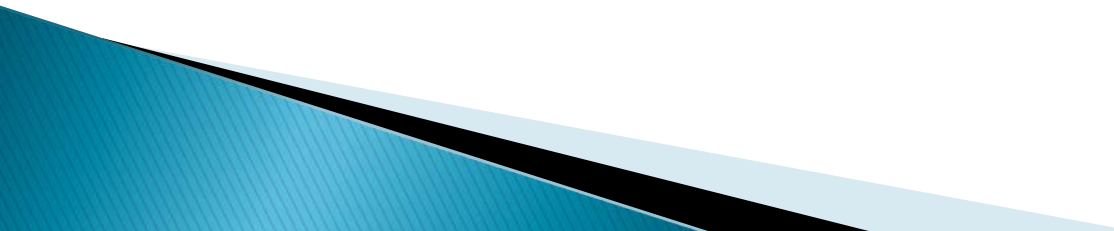
# Recent Incidents – NRG

- ▶ Williams Ohio Valley Midstream (3-22-2013)  
Located near Cameron, Marshall County  
24" line, MAOP 1200 psi, 1027\* psi failure
- ▶ Eureka Hunter Pipeline (4-11-2013)  
Located near Wick, Tyler County  
Ignition of pipeline liquids during pigging operation; 2 fatalities, 2 injuries

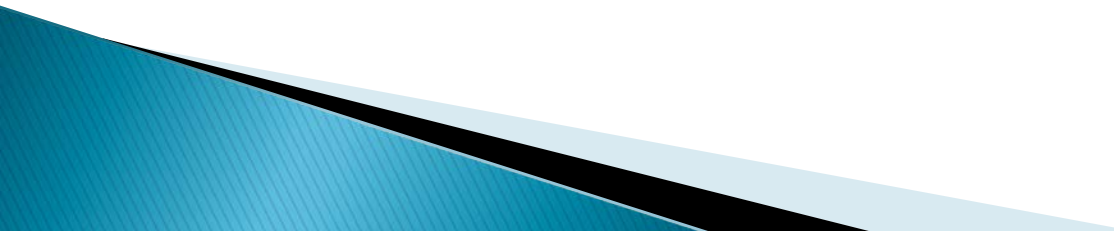




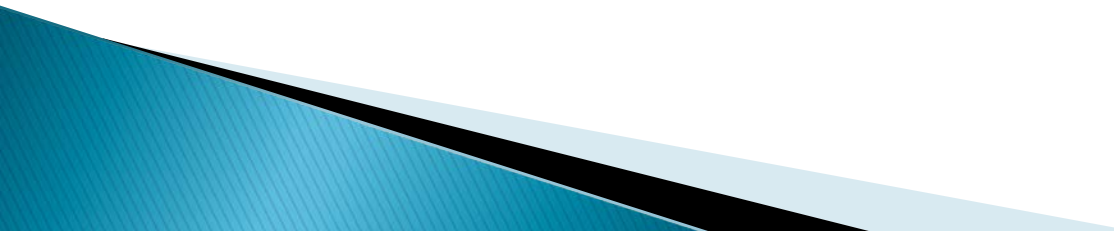
# PSC Interest in NRG

- ▶ Incident investigations and data
  - ▶ Resident complaints
  - ▶ Leak reports
  - ▶ Proximity to DOT pipelines
- 

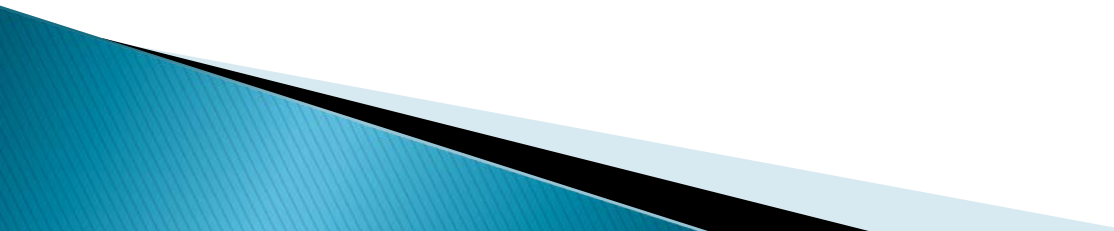
# MAOP

- ▶ Operators verify records in Class 3 & 4 (all) and Class 1 & 2 (HCAs)  
Complete by 7-3-2013
  - ▶ Operators to identify segments with insufficient records by 7-3-2013
  - ▶ Operators to report excursions above MAOP to state and PHMSA (effective from signing)
- 

# MAOP

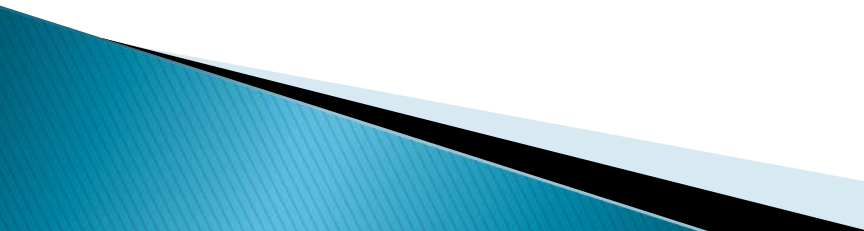
- ▶ DOT to issue regulation for hydrotesting or in-line inspection of lines operating >30% SMYS in HCAs that were not previously tested
  - ▶ DOT to issue deadline after consultation with states and FERC
  - ▶ By 7-3-13
- 

# NTSB – Recommendations to PHMSA based on San Bruno

- ▶ Require operators to provide system specific information to emergency response agencies where pipe is located.
  - ▶ Require control room operators to immediately notify 911 when a possible rupture is indicated.
- 



# Operator Registry

- ▶ 191.22
  - ▶ Pipeline operators with existing OpID must validate information by 9-30-2012
  - ▶ New operators must request OpID
  - ▶ <https://portal.phmsa.dot.gov/phmsaportal/landing>
  - ▶ Changes in operator name or divestiture of assets to be reported
- 

# Contact Us

- ▶ Main PSC Number 304-340-0300
  - ▶ Pipeline Safety Section 304-340-0465
  - ▶ Telephonic Reports 304-552-1053 primary
  - ▶ Telephonic Reports 304-340-0393 alt.
  - ▶ [www.psc.state.wv.us](http://www.psc.state.wv.us)
  - ▶ [www.phmsa.dot.gov](http://www.phmsa.dot.gov)
- 