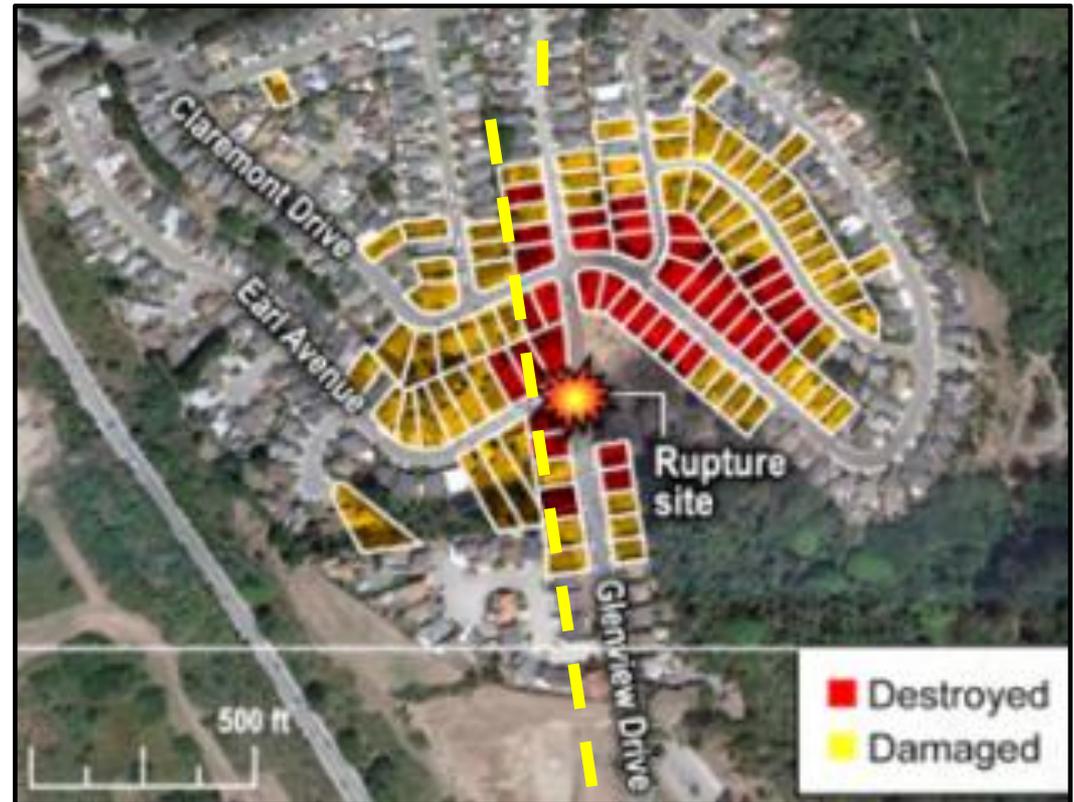


# Land Use and Development Planning near Transmission Energy Pipelines ~ Pennsylvania ~

May 1, 2013



**Impact Area  
Natural Gas Transmission Pipeline Failure  
San Bruno, CA**

## Webinar Recording Information

This webinar is being recorded and will be accessible at [www.PIPA-Info.com](http://www.PIPA-Info.com).

Within the next few days you will receive an email notice with links to the recording and to the online evaluation survey.

Your feedback is important to us. Thank you in advance for completing the webinar evaluation survey.

# AICP CM Credits

- **AICP Session Title**

- Land Use & Development Planning Near Transmission Pipelines in Pennsylvania
- #e.23343 Point of Contact - Julie.Halliday@dot.gov - 202-366-0287

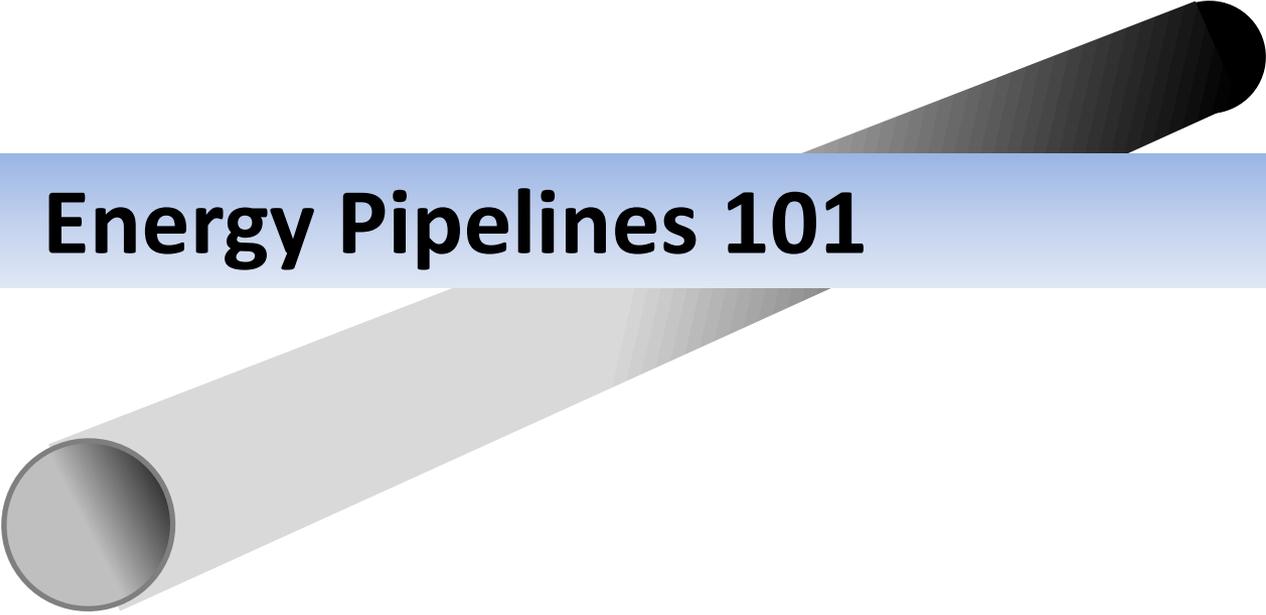
- **Requirements to earn 1.25 AICP Certification Maintenance Credits**

- Participant registers online [PIPA-Info.com](http://PIPA-Info.com) > May 1, 2013  
[Land Planning Near Transmission Pipelines in Pennsylvania](#) (Mtg #86)
- Participant attends entire webinar



# Agenda

- Pipelines 101
- Benefit and Potential Impacts
- Government's role in Public Safety near Transmission Pipelines
- Examples of Risk-informed Practices
- Resources to Support Implementation

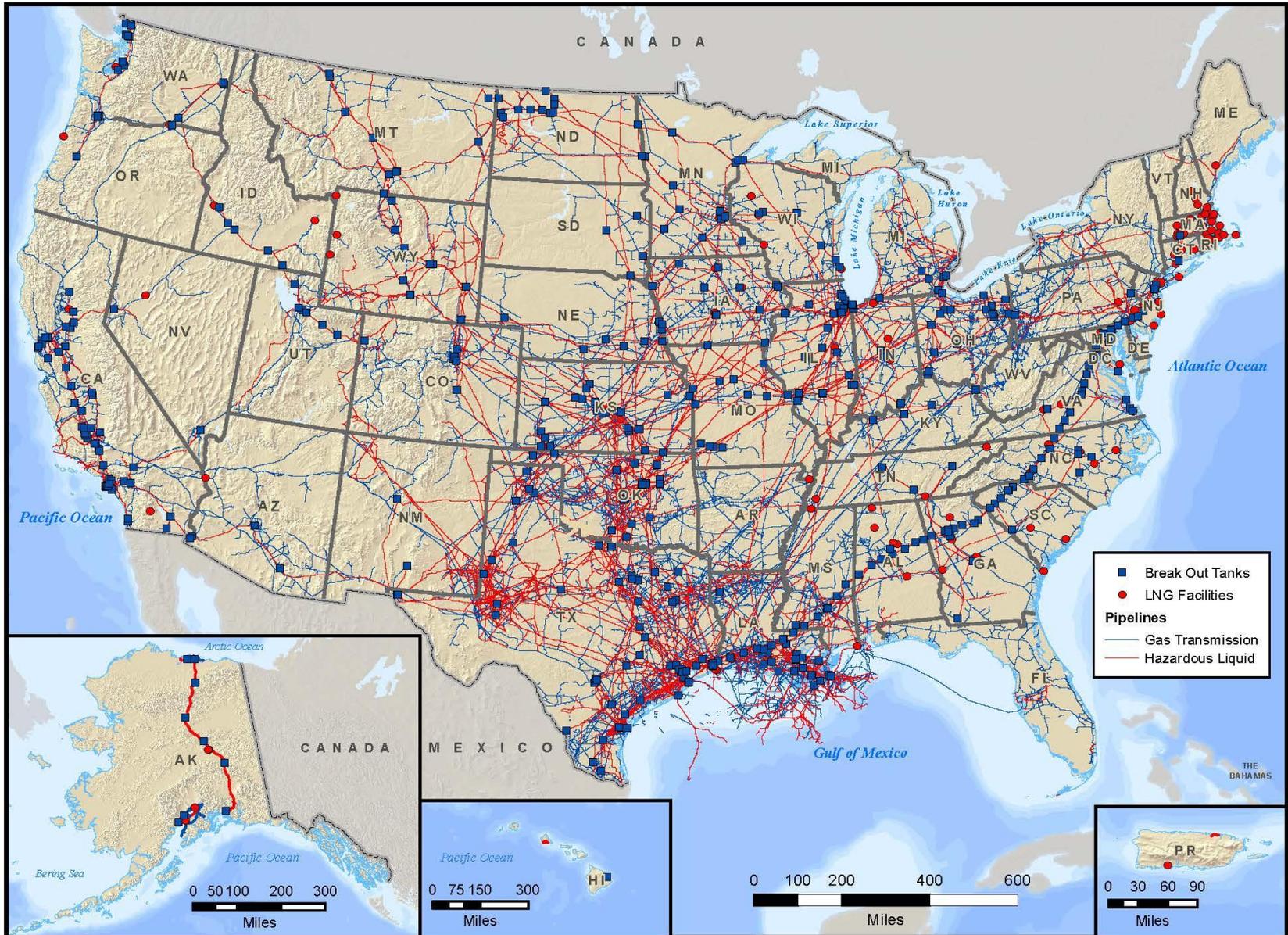


# Energy Pipelines 101

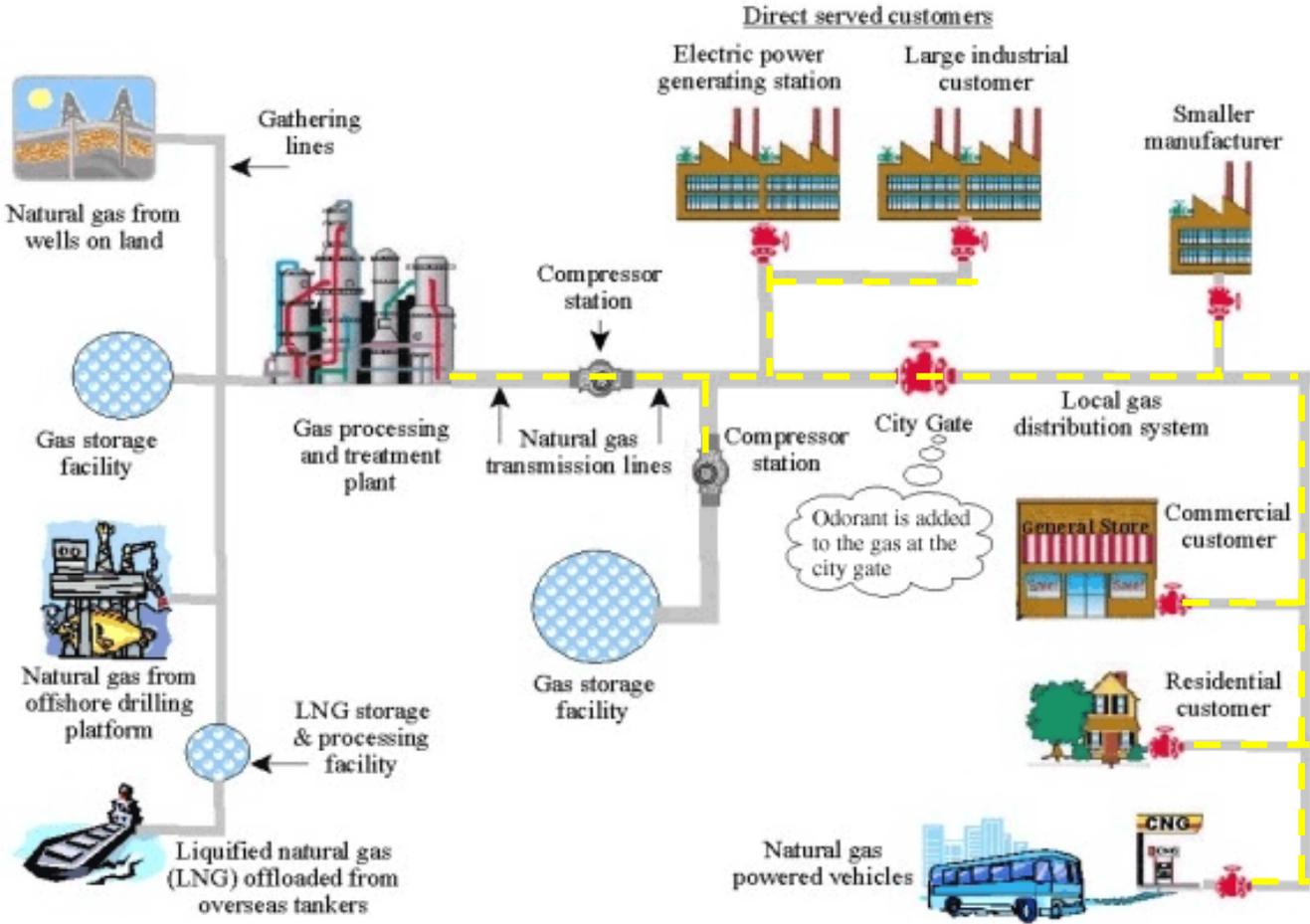


# Gas Transmission and Hazardous Liquid Pipelines in the United States

## National Pipeline Mapping System



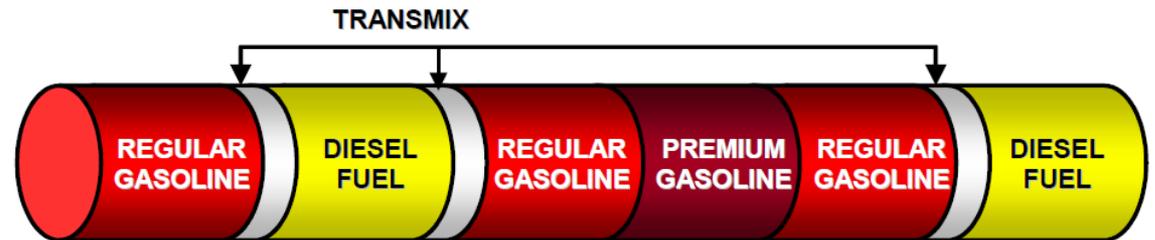
# Natural Gas Pipeline Systems: From the Wellhead to the Consumer



# Typical Sequence of Petroleum Products Flow Through A Pipeline

## HL products transported:

- Gasoline
- Diesel fuel
- Kerosene
- Natural gas
- Heating oil
- Propane
- Aviation gasoline.
- Jet fuel
- Carbon dioxide (CO<sub>2</sub>)
- Ethane
- Crude oil
- Coal
- Liquefied natural gas (LNG)
- Coal slurry

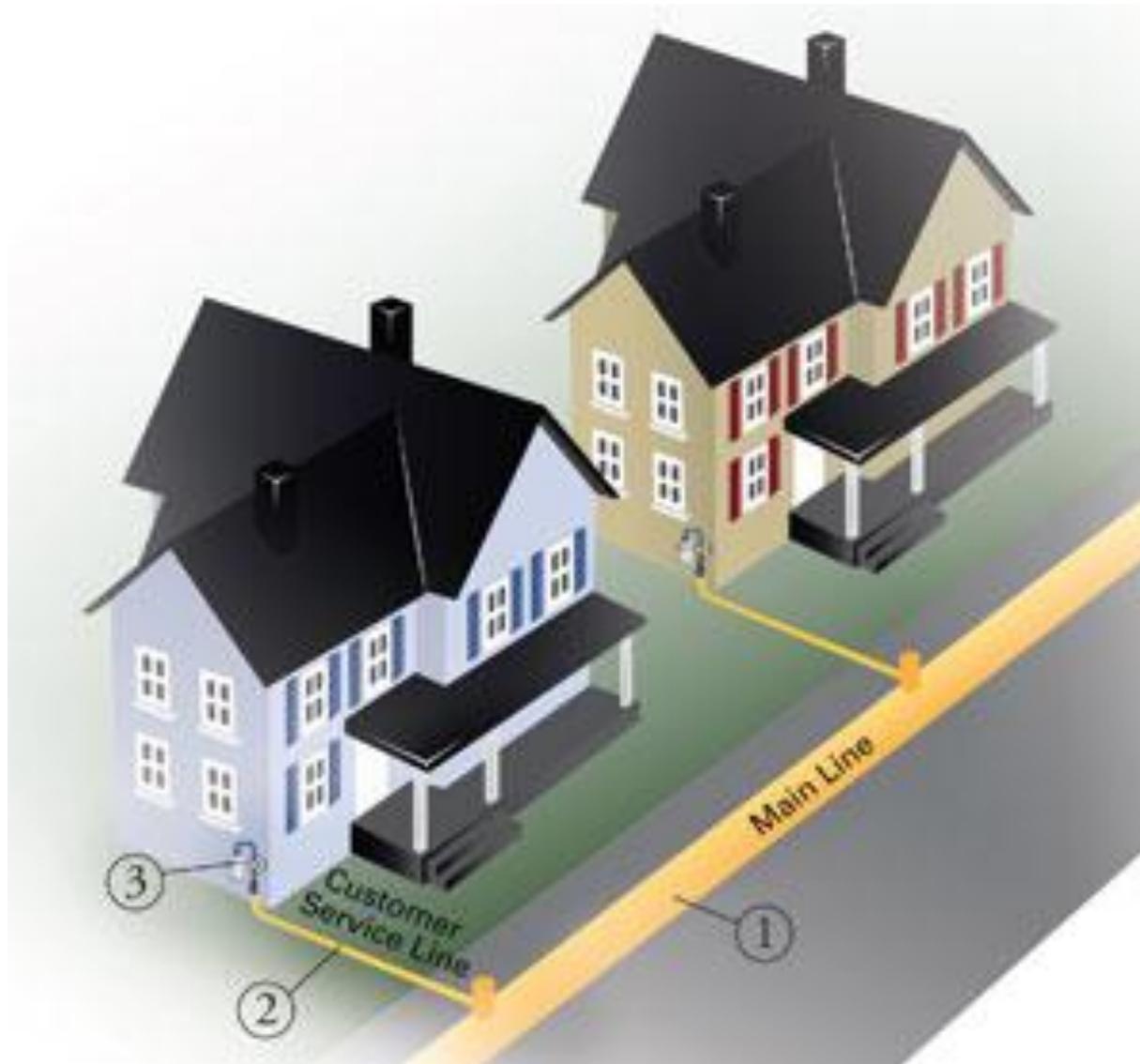


Compatible Interfaces

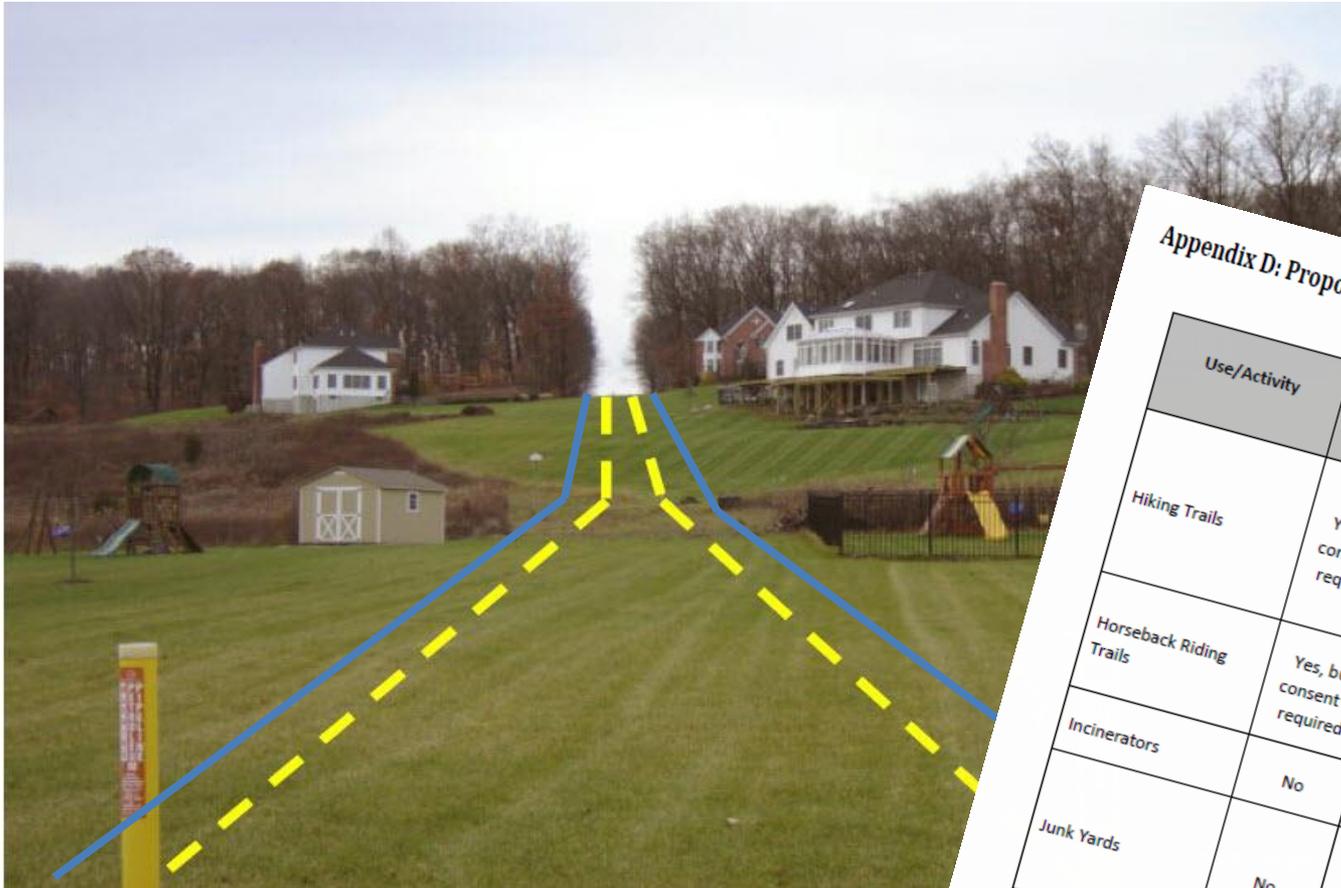
Transmix (Interface Material Which Must Be Reprocessed)



# Natural Gas Distribution Pipelines



# Transmission Pipeline Right-of-Way

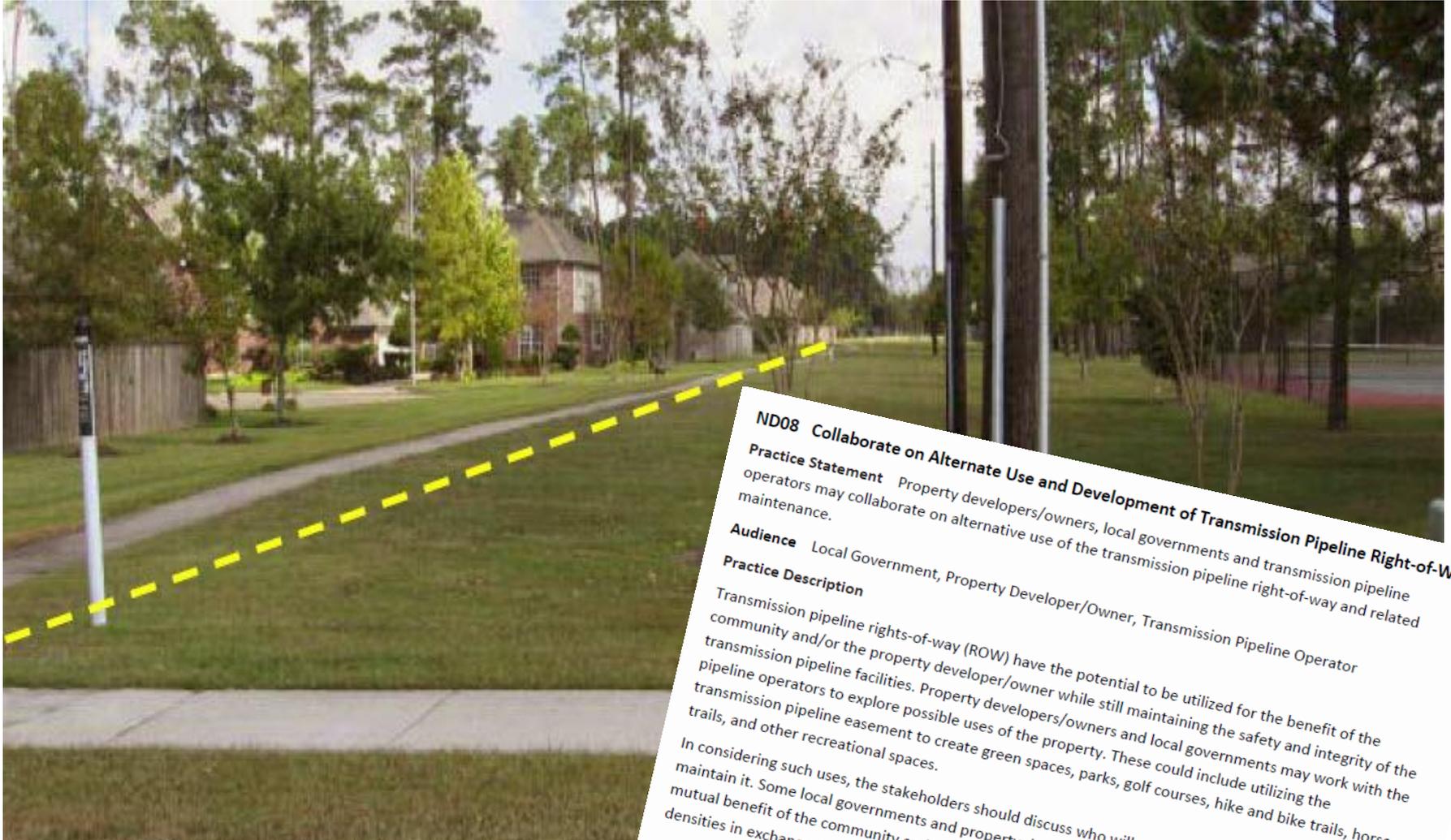


Appendix D: Proposed Land Uses for Transmission Pipeline ROW

PIPA Rep

Use/Activity	Acceptable Use or Activity?	Additional Restrictions or Comments	Origin/ Rational Acceptable
Hiking Trails	Yes, but consent is required	Provided reasonable access to facilities is maintained. See also Landscaping and Cuts and Fills.	Trails must be placed transmission pipeline maintenance, inspection repair activities to be co
Horseback Riding Trails	Yes, but consent is required	Provided adequate access to facilities is maintained. See also Cuts and Fills.	Trails must be placed to all transmission pipeline maintenance, inspection and repair activities to be conduc
Incinerators	No		For safety reasons, no flame, f or flammable material is allowe
Junk Yards	No		This use would not allow transmission pipeline operators
Landscaping	Yes, but consent is required	Provided reasonable access to transmission pipeline facilities is maintained. See Cuts and Fills for earthwork requirements. In addition shrubs should not interfere transmission pi	With trans flowe

# Transmission Pipeline Right-of-Way



## ND08 Collaborate on Alternate Use and Development of Transmission Pipeline Right-of-Way

**Practice Statement** Property developers/owners, local governments and transmission pipeline operators may collaborate on alternative use of the transmission pipeline right-of-way and related maintenance.

**Audience** Local Government, Property Developer/Owner, Transmission Pipeline Operator

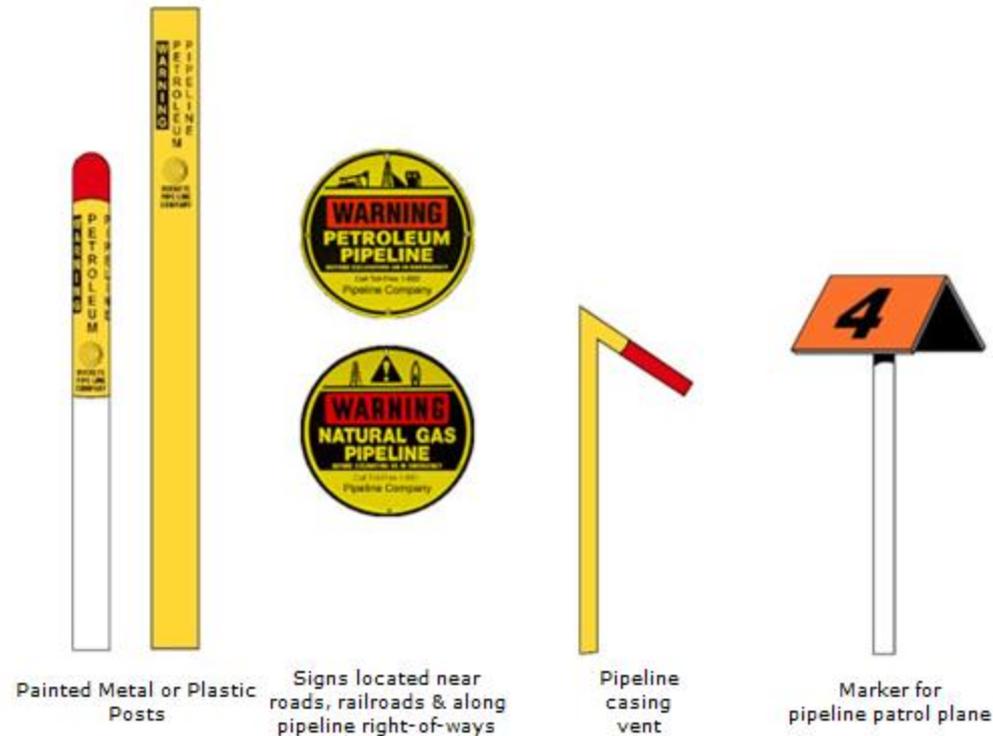
### Practice Description

Transmission pipeline rights-of-way (ROW) have the potential to be utilized for the benefit of the community and/or the property developer/owner while still maintaining the safety and integrity of the transmission pipeline facilities. Property developers/owners and local governments may work with the pipeline operators to explore possible uses of the property. These could include utilizing the transmission pipeline easement to create green spaces, parks, golf courses, hike and bike trails, horse trails, and other recreational spaces.

In considering such uses, the stakeholders should discuss who will maintain the ROW and how they maintain it. Some local governments and property developers/owners have worked together for the mutual benefit of the community and the developer by offering incentives and other benefits in exchange for development that enhances the transmission pipeline.

[Appendix C](#) is intended for use by cities and other stakeholders involved in the initial planning and design of the transmission pipeline.

# Identifying Transmission Pipelines in The Field



- Provides an *indication* of their presence (not exact location), product carried and the name and contact information of the company that operates the pipeline.
- Pipeline markers are generally yellow, black and red in color.

# Valves



# Pig Launcher



# Oil Pipeline Repair



# City Gate Station



Meter and Regulator Runs



Odorant Tank

## ND18 Consider Transmission Pipeline Operation Noise and Odor in Design and Location of Residential, Mixed-Use, and Commercial Land Use Development

**Practice Statement** Consider noise, odor and other issues when planning and locating developments near above-ground transmission pipeline facilities, such as compressor stations, pumping stations, odorant equipment, regulator stations and other pipeline appurtenances.

**Audience** Local Government, Property Developer/Owner, Transmission Pipeline Operator

### Practice Description

Aboveground transmission pipeline facilities, such as compressor stations, pumping stations, regulator stations, launcher/receiver stations and other pipeline appurtenances may generate noise and odors. These may not be initially noticed in some settings. However, they may be noticeable when land use is modified or a development is placed near the pipeline facility. These changes may place people in close proximity to the aboveground pipeline facilities for extended periods of time. Plans for land use and development should attempt to minimize exposures to these types of facilities.

Examples of aboveground pipeline operation and maintenance activities that may impact adjacent land development include:

- The operation of gas compressor or pump station machinery may generate noise and odors;
- Start-up and shut-down activities may produce noise and odors;
- Heat exchangers or other equipment may produce visible emissions, such as steam, to the air;
- Some pressure limiting stations may include relief valves that may release gas to the atmosphere;
- Facilities used to odorize natural gas are designed to minimize odorant emissions; however, occasional releases or spills could occur that could concern nearby residents;
- Backup power generators may be operated periodically, resulting in noise and odor; and
- Facility repairs and maintenance may require the operation of heavy construction equipment.

# Pump Station & Tank Farm



# Compressor Station





# Benefits and Potential Impacts

Some Examples of Commodities Moved in U.S. Pipelines:

## Benefits

Safe, secure, cost efficient transportation

Fuel for:

- Motor vehicles, ships and airplanes
- Heating, water heat, cooking, drying
- Commercial – Bakery, dry cleaner, generators
- Industrial – glass and aluminum manufacturing
- Agricultural – corn dryer
- Power plants
- Military – largest single buyer in the world

Feedstock for food products, pharmaceuticals, plastics and resins

For our vehicles:

- Gasoline
- Diesel fuel
- Kerosene
- Aviation gasoline
- Jet fuel



To heat our homes:

- Home heating oil
- Natural gas
- Propane

Feedstocks for Consumer Products:

- Crude oil
- Propylene
- Ethane
- Ethylene
- Carbon dioxide



For agriculture:

- Anhydrous ammonia (a fertilizer)
- Diesel fuel

# Potential Impacts

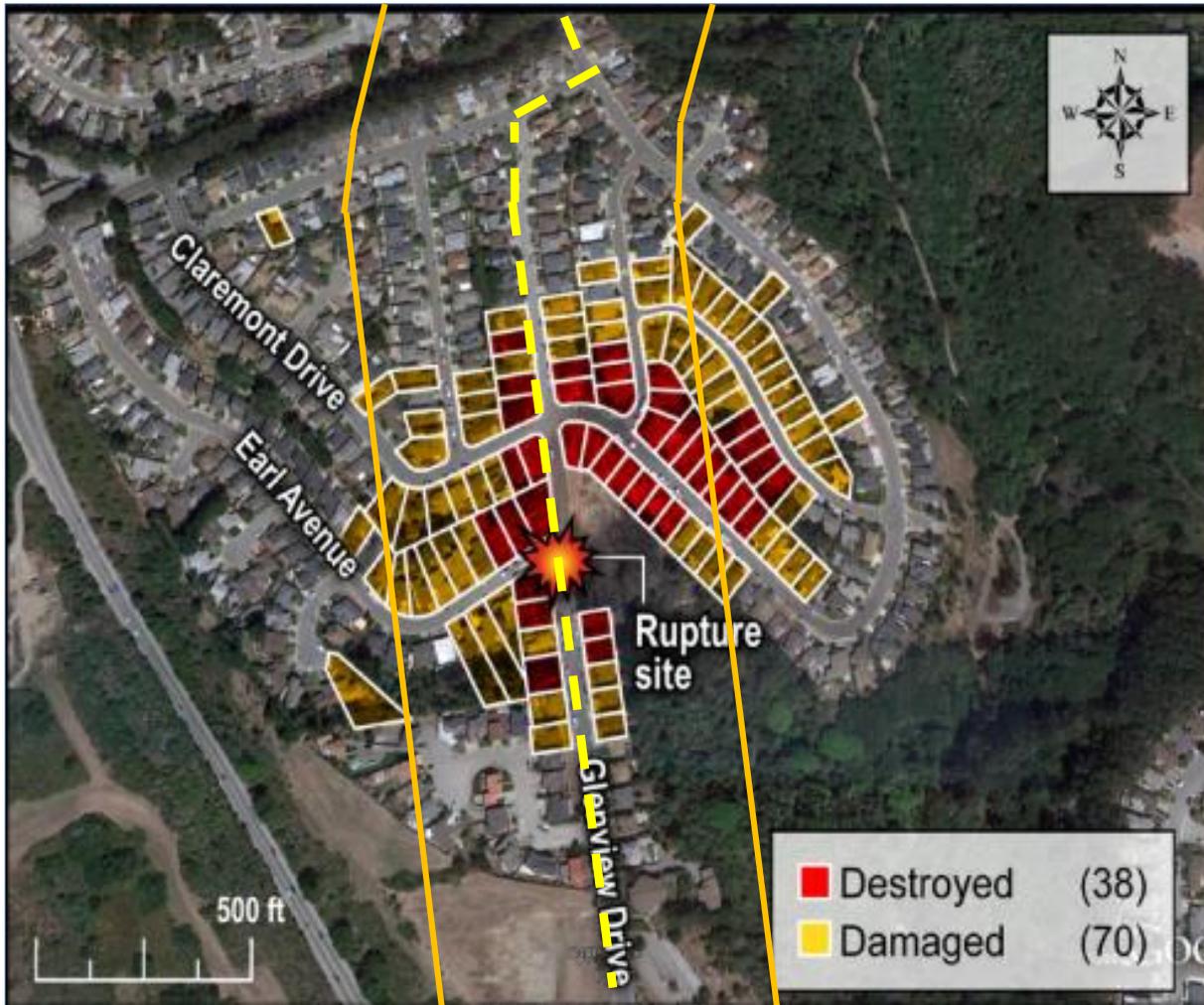
## Potential Impacts

- Life Safety (health effects, injury, fatality)
- Environmental
- Property Cultural/historical
- Economic disruption or cessation
- Loss of confidence in government/operator
- Fear of another pipeline emergency

# Gas Transmission Failure - Rural



# Gas Transmission Failure - Suburban



Natural gas transmission pipeline fire in San Bruno, CA.

# Natural Gas Distribution Failure



Natural Gas Distribution Explosion, Lewisville, TX - Jan. 2013

# Hazardous Liquid Failure – Crude Oil



Mayflower, Arkansas - 2013

# Hazardous Liquid Failure – Refine Product



Bellingham, WA - 1999

# Example of a Highly Volatile Liquid - LPG



# Pipeline Information for Pennsylvania PHMSA Stakeholder Communication Web Site

**Pipeline & Hazardous Materials Safety Administration**

**Pipeline Safety Stakeholder Communications**  
*Pipeline Safety Connects Us All*

Home | General Public | Emergency Officials | Local Officials | Excavators | Property Developer/Owner | Pipeline Safety Advocates | State Regulators | Federal Agencies | Industry | Contact Us

**Site Pages**

- ▶ About Pipelines
- ▶ Regulatory Oversight
- ▶ Safety Programs
- ▶ Public Outreach

State Pipeline Profiles:  
Choose One...  
Print

## Community Toolbox

*Pipeline Safety Connects Us All*

The U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration (PHMSA) Office of Pipeline Safety (OPS) is the federal safety authority for ensuring the safe, reliable, and environmentally sound operations of our nation's pipeline transportation system. An important component of OPS's mission is to promote pipeline safety communication and education.

Pipeline safety is a responsibility shared by all stakeholders. Community and pipeline safety is improved through active stakeholder participation, especially with regard to public awareness, damage prevention, risk-informed land use planning, and emergency management efforts.

*Click on a puzzle piece below to learn how you can impact pipeline safety.*

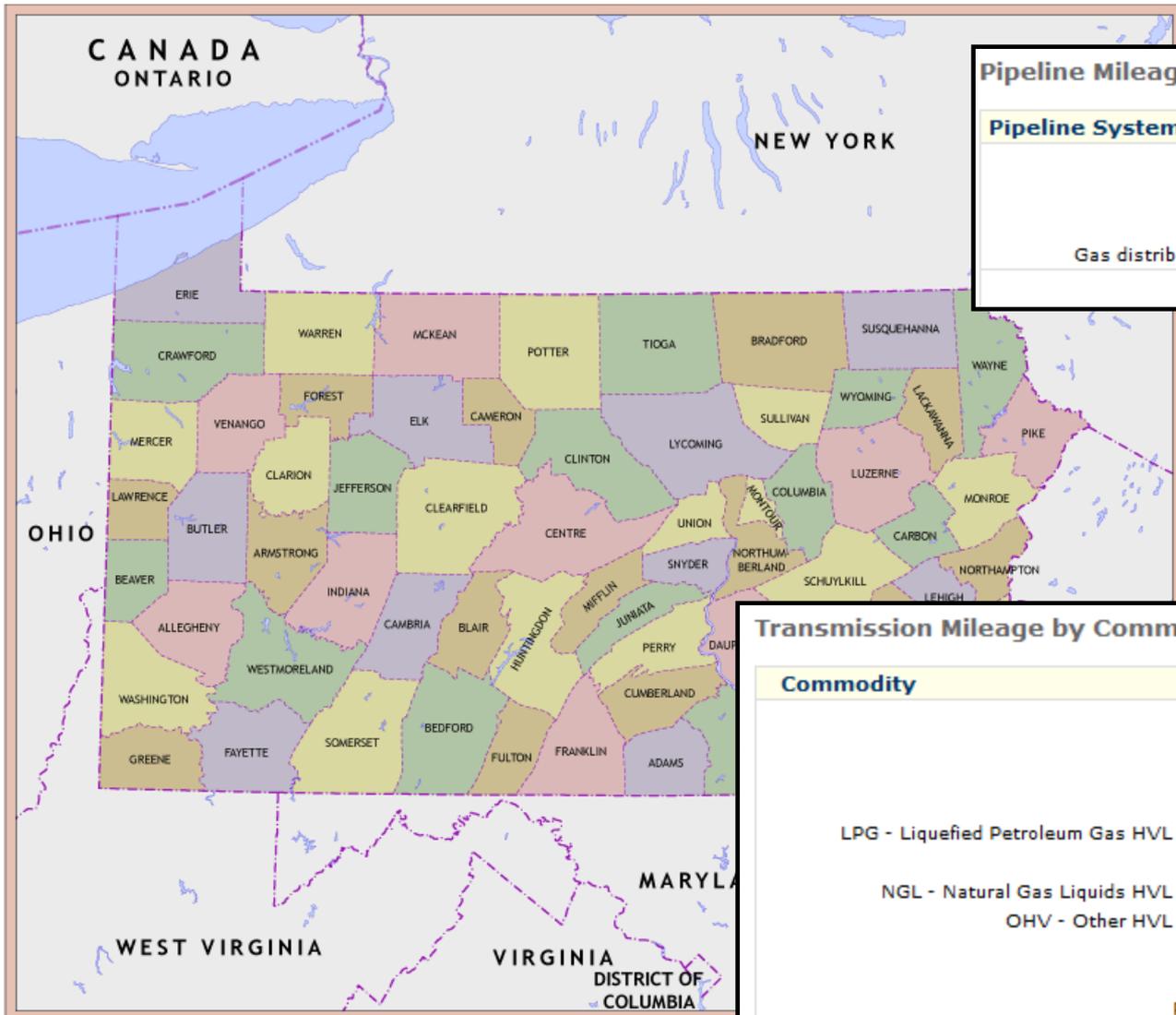
**What's New**

- 811: We Support April as National Safe Digging Month
- 811 For Kids
- WARNING: NATURAL GAS PIPELINE
- WARNING: PETROLEUM PIPELINE

**How Can I Impact Pipeline Safety?**

- General Public
- Emergency Officials
- Local Officials
- Excavators
- Industry
- Federal Agencies
- State

# Energy Pipelines in Pennsylvania



**Pipeline Mileage Overview**

Pipeline System	Mileage
Hazardous liquid line mileage	2,901
Gas transmission line mileage	10,081
Gas Gathering line mileage	551
Gas distribution mileage ( 2,790,993 total services <sup>(A)</sup> )	47,504
<b>Total pipeline mileage</b>	<b>61,037</b>

**Transmission Mileage by Commodity**

Commodity	Pipeline Miles	%
CRD - Crude Oil	28	0.2%
EPG - Empty Gas	24	0.1%
EPL - Empty Liquid	134	1.0%
HG - Hydrogen Gas	1	0.0%
LPG - Liquefied Petroleum Gas HVL (Highly Volatile Liquid)	731	5.5%
NG - Natural Gas	9,992	76.3%
NGL - Natural Gas Liquids HVL (Highly Volatile Liquid)	39	0.3%
OHV - Other HVL (Highly Volatile Liquid)	14	0.1%
OTG - Other Gas	119	0.9%
PG - Propane Gas	52	0.4%
PRD - Refined Products	1,954	14.9%
<b>Totals</b>	<b>13,088</b>	<b>100%</b>

# PA Transmission Pipeline Mileage by County

County	Gas Miles	Liquid Miles	%	County	Gas Miles	Liquid Miles	%	County	Gas Miles	Liquid Miles	%
ADAMS	125	0	0.90%	DAUPHIN	92	91	1.40%	MERCER	290	0	2.20%
ALLEGHENY	365	131	3.80%	DELAWARE	82	219	2.30%	MIFFLIN	32	0	0.20%
ARMSTRONG	259	0	1.90%	ELK	234	3	1.80%	MONROE	107	0	0.80%
BEAVER	167	68	1.80%	ERIE	150	0	1.10%	MONTGOMERY	223	79	2.30%
BEDFORD	112	0	0.80%	FAYETTE	291	0	2.20%	MONTOUR	8	3	0.00%
BERKS	148	221	2.80%	FOREST	71	0	0.50%	NORTHAMPTON	146	18	1.20%
BLAIR	73	95	1.20%	FRANKLIN	185	0	1.40%	NORTHUMBERLAND	0	34	0.20%
BRADFORD	101	30	1.00%	FULTON	58	0	0.40%	PERRY	103	74	1.30%
BUCKS	241	48	2.20%	GREENE	726	0	5.50%	PHILADELPHIA	9	77	0.60%
BUTLER	105	0	0.80%	HUNTINGDON	90	97	1.40%	PIKE	52	0	0.40%
CAMBRIA	150	84	1.70%	INDIANA	151	104	1.90%	POTTER	491	26	3.90%
CAMERON	65	18	0.60%	JEFFERSON	229	2	1.70%	SCHUYLKILL	0	47	0.30%
CARBON	9	81	0.60%	JUNIATA	49	21	0.50%	SOMERSET	147	0	1.10%
CENTRE	142	0	1.00%	LACKAWANNA	36	47	0.60%	SUSQUEHANNA	63	82	1.10%
CHESTER	342	252	4.50%	LANCASTER	199	70	2.00%	TIOGA	258	28	2.10%
CLARION	172	0	1.30%	LAWRENCE	157	4	1.20%	VENANGO	125	0	0.90%
CLEARFIELD	145	35	1.30%	LEBANON	67	95	1.20%	WARREN	143	14	1.20%
CLINTON	248	4	1.90%	LEHIGH	7	120	0.90%	WASHINGTON	753	70	6.20%
COLUMBIA	32	0	0.20%	LUZERNE	164	91	1.90%	WAYNE	23	0	0.10%
CRAWFORD	74	0	0.50%	LYCOMING	180	35	1.60%	WESTMORELAND	450	132	4.40%
CUMBERLAND	18	95	0.80%	MCKEAN	287	0	2.20%	WYOMING	5	27	0.20%
	> 200 Miles	> 100 Miles	Top 10 %					YORK	132	29	1.20%



# National and Jurisdiction-Specific Pipeline Risk

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

**Pipeline Safety Stakeholder Communications**  
*Pipeline Safety Connects Us All*

Home | General Public | Emergency Officials | Local Officials | Excavators | Property Developer/Owner | Pipeline Safety Advocates | State Regulators | Federal Agencies | Industry | Contact Us

## Pipeline Incidents and Mileage Reports

**PHMSA is committed to a data-driven approach**

The reports provided below present information and data over the past 20 years

### Serious Incidents

Tables and charts about pipeline incidents involving a fatality

### Significant Incidents

Tables and charts pertaining to pipeline incidents which meet a certain value for property damage, value or volume of product lost

### All Reported Incidents

Tables and charts covering all pipeline incidents reported to PHMSA over time. Serious and Significant Incident data sets are also available.

### Consequences to the Public and the Pipeline Industry

Pipeline incidents affect both the general public and the pipeline industry. These stakeholder groups.

### Directory of State Detail Reports

A detailed profile of the pipeline system including incidents and mileages

### Incident Data Access

Download the raw data used to generate the reports above.

The reports provided here are generated from numerous data collection, evolving methods of oversight and multiple data sets over various file formats, normalized incident costs with the goal of producing a coherent and meaningful data set. To produce your own analysis, the raw data used in these reports is available for download.

Please note that in some of these reports, the cost of gas lost during a pipeline incident using the Energy Information Administration's Bureau of Economic Analysis, Government Accounting System (GAS) methodology is used.

[Feedback](#) | [Information Highlights](#) | [Privacy Policy](#) | [Access](#)

**Pipeline Safety Stakeholder Communications**  
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## Site Pages

- About Pipelines
- Regulatory Oversight
- Safety Programs
- Public Outreach

State Pipeline Profiles:  
Choose One...  
Print

## Pennsylvania

Pipelines in Pennsylvania may include large-diameter lines carrying energy products to population centers, as well as small-diameter lines that may deliver natural gas to businesses and households in your neighborhood. The energy products carried in pipelines fuel our lives and our livelihoods. They heat our homes and schools, power our industrial base and enable our daily commutes.

Pipelines are by far the safest method for transporting energy products. However, when pipeline incidents occur they can present significant risks to the public and the environment. That's why we encourage everyone in Pennsylvania to learn about pipelines and the products they carry, as well as a few simple steps you can take to help us ensure pipeline safety in your community.

### Pennsylvania pipeline profile: incident and mileage data

To see Pennsylvania pipeline incident and mileage data click here. [More...](#)

### Pennsylvania pipeline profile: enforcement data

To see Pennsylvania enforcement data click here. [More...](#)

### Call Before You Dig!

Remember, before you dig or excavate, you are required by law to contact your local One-Call center and request to have underground facilities located. The call is free and there is no cost to you for the service. To contact your One-Call center dial 811, or click here for the Dig Safely Directory of toll free One-Call phone numbers. [More...](#)

### Who operates pipelines in your area?

OPS and the National Pipeline Mapping System enable you to find out simply by entering your ZIP Code into a search field. [More...](#)

### Who regulates pipelines in Pennsylvania?

OPS and the state of Pennsylvania share regulatory responsibilities through a cooperative agreement. Pennsylvania regulatory fact sheet [More...](#)

### The role of the states in pipeline safety

OPS is authorized to delegate to the states all or part of the responsibility for regulation of intrastate pipelines. The National Association of Pipeline Safety Representatives (NAPSR) is an organization of state pipeline safety managers responsible for administration of their states' pipeline safety programs. [Learn more. More...](#)



[primis.phmsa.dot.gov/comm](http://primis.phmsa.dot.gov/comm)

# All Pipeline Incidents PA

All Pipeline Systems

Hazardous Liquid

Gas Transmission

Gas Gathering

Gas Distribution

Note: Serious Incidents are included in Significant Incidents and All Incidents.

## Pennsylvania All Pipeline Systems: 2002-2011

Year	Number	Fatalities	Injuries	Property Damage <sup>(B)</sup> (C)	Gross Barrels Spilled (Haz Liq)	Net Barrels Lost (Haz Liq) <sup>(D)</sup>
2002	23	1	6	\$4,274,795	875	200
2003	21	4	9	\$1,763,310	8	0
2004	33	3	3	\$6,618,812	678	446
2005	17	1	4	\$26,297,036	12,626	1,332
2006	11	0	2	\$2,556,194	0	0
2007	12	0	3	\$4,909,892	1,511	1,289
2008	19	1	2	\$7,192,991	419	238
2009	12	0	0	\$6,259,043	445	334
2010	5	0	1	\$310,204	1,700	1
2011	11	6	7	\$4,535,873	416	32
<b>Totals</b>	<b>164</b>	<b>16</b>	<b>37</b>	<b>\$64,718,153</b>	<b>18,682</b>	<b>3,872</b>
<b>2012 YTD</b>	<b>8</b>	<b>0</b>	<b>1</b>	<b>\$659,978</b>	<b>130</b>	<b>99</b>
<b>3 Year Average (2009-2011)</b>	<b>9</b>	<b>2</b>	<b>3</b>	<b>\$3,701,707</b>	<b>854</b>	<b>122</b>
<b>5 Year Average (2007-2011)</b>	<b>12</b>	<b>1</b>	<b>3</b>	<b>\$4,641,601</b>	<b>899</b>	<b>379</b>
<b>10 Year Average (2002-2011)</b>	<b>16</b>	<b>2</b>	<b>4</b>	<b>\$6,471,815</b>	<b>1,868</b>	<b>387</b>

# Ohio – Risk Statistics & Details

## Significant Pipeline Incidents By Cause

This report is a sub-report of the Pennsylvania Significant Incident and Mileage Overview report. As such, it represents Significant Incidents <sup>(A)</sup> only over the time period pipeline system specified.

The data source for this table is the PHMSA Flagged Incident File.

More Pipeline Incidents and Mileage Reports are available.

All Pipeline Systems  Hazardous Liquid  Gas Transmission

All Hazardous Liquid Systems  Onshore Only  Offshore Only

### Pennsylvania Hazardous Liquid: Significant Incident

#### Reported Cause of Incident <sup>(B)</sup>

CORROSION

EXTERNAL CORROSION  
INTERNAL CORROSION

#### EXCAVATION DAMAGE

OPERATOR/CONTRACTOR EXCAVATION DAMAGE  
THIRD PARTY EXCAVATION DAMAGE

#### INCORRECT OPERATION

OVERFILL/OVERFLOW OF TANK/VESSEL  
UNSPECIFIED INCORRECT OPERATION

#### MAT'L/WELD/EQUIP FAILURE

MALFUNCTION OF CONTROL/RELIEF EQUIPMENT  
NON-THREADED CONNECTION

#### NATURAL FORCE DAMAGE

#### OTHER OUTSIDE FORCE DAMAGE

OTHER OUTSIDE FORCE DAMAGE

#### ALL OTHER CAUSES

MISCELLANEOUS CAUSE

Sub Total

1	4.3%	0
1	4.3%	

## Pennsylvania Significant Incidents Listing

The report below provides details for **significant incidents** reported for the state of Pennsylvania over the period 2002-2013 YTD.

The incidents reported below are limited to Significant Incidents <sup>(A)</sup> only.

The data source for this report is the PHMSA Flagged Incident File <sup>(1)</sup>.

See State Incident and Mileage Overview for a summary of pipeline systems in Pennsylvania.

Where appropriate, the table columns can be sorted by clicking the corresponding column header.

More Pipeline Incidents and Mileage Reports are available.

All Pipeline Systems  Hazardous Liquid  Gas Transmission  Gas Gathering  Gas Distribution

All Hazardous Liquid Systems  Onshore Only  Offshore Only

### Pennsylvania Hazardous Liquid: 2002-2013 YTD

Date	City	Operator	Cause	Sub-Cause
01/01/2002				
02/21/2002	GREENSBURG	TE PRODUCTS PIPELINE CO., LP		
07/21/2002	TINICUM	SUNOCO PIPELINE L.P.		
09/26/2002	SINKING SPRING	SUNOCO PIPELINE L.P.		
10/28/2002	EMMAUS	BUCKEYE PIPELINE CO LP	MAT'L/WELD/EQUIP FAILURE	MALFUNCTION OF CONTROL/RELIEF EQUIPMENT
03/19/2004	MONTOURSVILLE	SUNOCO PIPELINE L.P.	MAT'L/WELD/EQUIP FAILURE	MALFUNCTION OF CONTROL/RELIEF EQUIPMENT
06/25/2004	LIMA	SUNOCO PIPELINE L.P.	MAT'L/WELD/EQUIP FAILURE	EXTERNAL CORROSION
07/10/2004	NICHOLSON	BUCKEYE PIPELINE CO LP	MAT'L/WELD/EQUIP FAILURE	FILLET WELD
07/22/2004	MOON	TIOGA PIPELINE COMPANY	CORROSION	EXTERNAL CORROSION
08/02/2004	EMMAUS	BUCKEYE PIPELINE CO LP	NATURAL FORCE DAMAGE	NON-THREADED CONNECTION FAILURE
02/01/2005	ALLEN TOWN	BUCKEYE PIPELINE CO LP	ALL OTHER CAUSES	EXTERNAL CORROSION
10/17/2005	ALLEN TOWN	MOBIL PIPE LINE COMPANY	EXCAVATION DAMAGE	LIGHTNING
	EMMAUS	BUCKEYE PIPE LINE COMPANY	EXCAVATION DAMAGE	OPERATOR/CONTRACTOR EXCAVATION DAMAGE
			NATURAL FORCE DAMAGE	OPERATOR/CONTRACTOR EXCAVATION DAMAGE
			MAT'L/WELD/EQUIP FAILURE	MISCELLANEOUS CAUSE
				TEMPERATURE
				FILLET WELD

# Enforcement Actions

## Pennsylvania Enforcement Program

Operator compliance with state and federal pipeline safety regulations is monitored through a comprehensive inspection and enforcement program. The program is comprised of field inspections of operations, maintenance, and construction activities; programmatic inspections of operator procedures, processes, and records; incident investigations and corrective actions; and through direct dialogue with operator management. The agency or agencies below work in partnership with the federal Pipeline and Hazardous Materials Safety Administration (PHMSA) to assure pipeline operators are meeting requirements for safe, reliable, and environmentally sound operation of their facilities. The tables below provide a summary of probable violations discovered and compliance actions taken by the agency(ies) as a result of these activities. These data are reported annually as part of the state's annual [pipeline safety program certification or agreement](#) to PHMSA. Information on enforcement actions taken by PHMSA is available at the [Pipeline Safety Enforcement Program homepage](#).

Probable Violations Compliance Actions

These tables provide a summary of probable violations identified and corrected during each year. Probable violations are alleged non-compliances with pipeline safety regulations. Although state enforcement procedures vary, operators are provided an opportunity to respond to these alleged non-compliances and defend their actions as part of resolving each case. Separate tables are provided for hazardous liquid and gas pipeline oversight. <sup>(A)</sup>

### Gas: Probable Violations: 2002-2011 <sup>(1)</sup>

Year	Number Found During Year	Number Submitted to DOT for Action	Number Corrected During Year
<b>PENNSYLVANIA PUBLIC UTILITY COMMISSION</b>			
2001	109	N/A	147
2002	110	N/A	77
2003	225	N/A	80
2004	79	N/A	23
2005	206	N/A	44
2006	53	N/A	38
2007	39	N/A	46
2008	73	N/A	58
2009	47	N/A	65
2010	231	N/A	111
2011	149	N/A	152

[Export Table](#) 

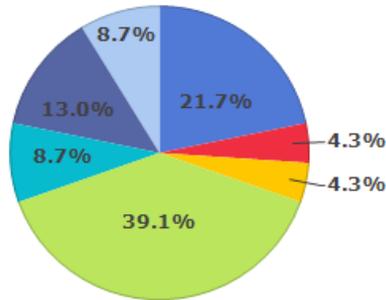
### Hazardous Liquid: Probable Violations: 2002-2011 <sup>(1)</sup>

Year	Number Found During Year	Number Submitted to DOT for Action	Number Corrected During Year
<b>PENNSYLVANIA PUBLIC UTILITY COMMISSION</b>			
2007	0	N/A	0
2008	0	N/A	0
2009	0	N/A	0
2010	2	N/A	0

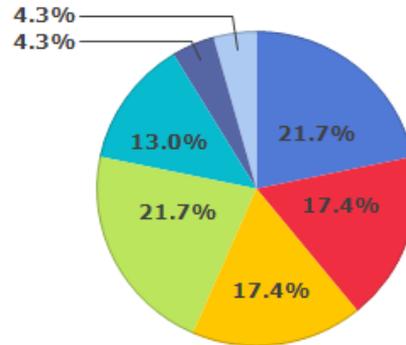
[Export Table](#) 

# What Causes Significant Pipeline Failures?

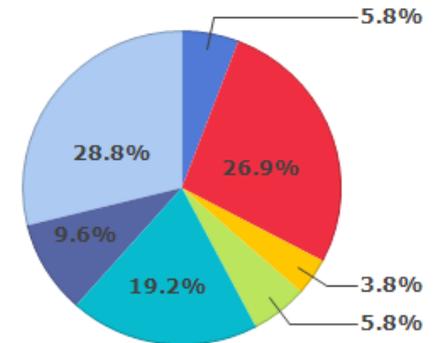
Pennsylvania, Gas Transmission, 2003-2012



Pennsylvania, Hazardous Liquid, 2003-2012



Pennsylvania, Gas Distribution, 2003-2012



Source: PHMSA Significant Incidents Files, March 29, 2013

- CORROSION
- EXCAVATION DAMAGE
- INCORRECT OPERATION
- MAT'L/WELD/EQUIP FAILURE
- NATURAL FORCE DAMAGE
- OTHER OUTSIDE FORCE DAMAGE
- ALL OTHER CAUSES

# Ohio Pipeline Safety & Excavation Damage Prevention Codes



- ABOUT
- MEMBER SERVICES
- EVENTS
- RESOURCE CENTER
- PRODUCTS & SERVICES
- APPLICATIONS
- CONTACT

- Homeowner
- Excavator
- Facility Owner
- Designer
- Project Owner
- Emergency Responder
- PA Damages Database
- Safety Days

[Act 287](#)  
(Adobe PDF File)

## Underground Utility Line Protection Act

HB2644                      ACT 121                      Signed: 10/9/2008  
 PN3986 2008                      Effective: 10/9/2008

73 P. S. § 176 et. seq.

Reprinted by Pennsylvania One Call System, Inc. The purpose of this reprinting is to provide those affected with a complete copy of the ACT.

- Resource Center
  - Brochures
  - Common Ground Alliance
  - Coordinating Committees
  - Facility Owner List
  - Forms and Labels
  - HDD Consortium
  - Link to Link
  - One Call Centers
  - Users Guide for PA Act 287
  - PA Act 287
  - Pipeline Safety
  - Pipeline Safety Act
  - Tailgate Safety Meetings
  - Underspace

*Note: Changes are shown in bold italics.*

### AN ACT

Amending the act of December 10, 1974 (P.L.852, No.287), entitled "An act to protect the public health and safety by preventing excavation or demolition work from damaging underground lines used in providing electricity, communication, gas, oil delivery, oil product delivery, sewage, water or other service; imposing duties upon the providers of such service, recorders of deeds, and persons and other entities preparing drawings or performing excavation or demolition work; and prescribing penalties," further providing for the title of the act, for definitions, for duties of facility owners and for the duties of the One Call System; providing for liability, fees and governance of the One Call System; further providing for applicability; providing for the duties of project owners and for rights of the Auditor General; further providing for the governing board of the One Call System, for fines and penalties and for applicability to certain pipeline systems and facilities; providing for a voluntary payment dispute resolution process, for best efforts, for removal or tampering with a marking, for determination of position and type of lines and for impairment of rights and immunities; further providing for expiration; repealing provisions of the act of June 19, 2002 (P.L.421, No.61), known as the Propane and Liquefied Petroleum Gas Act, concerning the prohibition of certain liquefied petroleum gas facilities or distributors from being subject to the Underground Utility Line Protection Law; and making an editorial change.

# Hazardous Liquid Pipelines in Pennsylvania



Home : Pipeline Awareness : Excavator and Real Estate Info

- HOME
- ABOUT US
- BUSINESS OPERATIONS
- EMERGENCY INFORMATION
- PIPELINE AWARENESS
  - Information about 811
  - + Keeping You Safe & Pipeline Security
  - + General Pipeline Information
    - Pipeline Purpose and Reliability
    - Events Calendar
    - Construction Activities
    - Resident Information
    - Public Official Information
    - Excavator and Real Estate Info
- INVESTOR CENTER
- CAREERS
- SITE MAP

## Excavator and Real Estate Info

### Information for excavators, real estate, and land developers

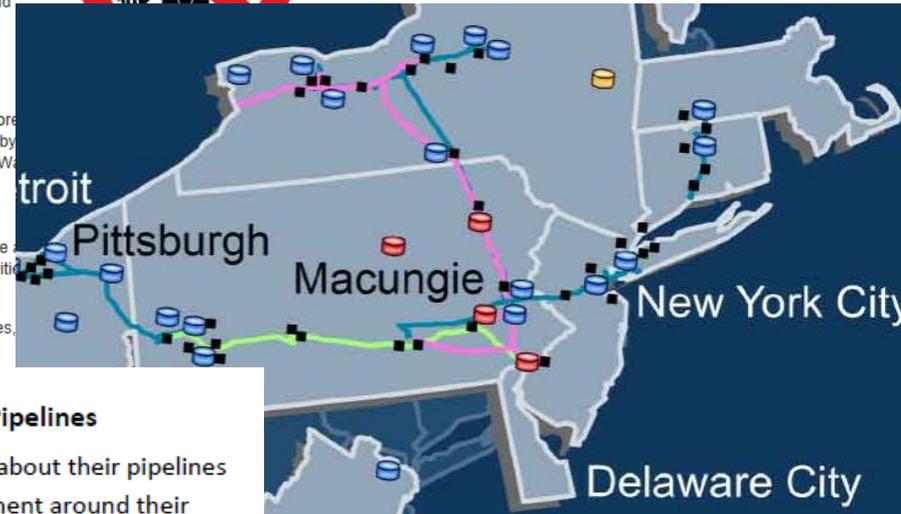
Protecting the pipeline and insuring public safety are very important to Buckeye. We are engaged in constant activities to ensure the safe operation of the pipeline and are dedicated to protecting our neighbors and the environment. You are an important component of our safety efforts!

Always remember: If your company is planning to dig, it is the law that you must contact your state's One-Call System. This is essential to keep underground facilities safe and prevent your company from incurring civil and possibly criminal penalties. The phone number for your One-Call System can be found in the brochure or here.

It is vitally important that you know the specifications of Right-of-Way restrictions before planning any projects or selling any property along pipelines owned and/or operated by Buckeye. It is also important that our line markers not be removed from our Right-of-Way since they mark the approximate location of our pipelines and let people know that a pipeline is in the vicinity. Removal of these line markers is a violation of Federal law.

Click  [Buckeye's Right-of-Way Use Restrictions specification](#) to bring up a printable and downloadable document which explains Buckeye's requirements for excavation activities near our pipelines.

Anytime excavation work is conducted in the vicinity of Buckeye's pipelines or facilities, Buckeye employee or contract employee must be on site during the excavation. The Buckeye representative will coordinate with the appropriate District's Project manager.



## BL03 Utilize Information Regarding Development around Transmission Pipelines

**Practice Statement** Transmission pipeline operators should provide information about their pipelines to local governments and property developers/owners who are planning development around their pipelines. Local government authorities regulating development should use this information to establish requirements regarding land use and development around transmission pipelines.

**Audience** Local Government, Transmission Pipeline Operator

# SYSTEM MAP

## Refined Products Pipelines

Our refined products pipelines and related activities consist primarily of a regulated 4,700 mile products pipeline system and related terminal operations (the "Products Pipeline System") that generally extends in a northeasterly direction from the upper Texas Gulf Coast to the northeast United States; and, a 50% joint venture interest in Centennial Pipeline, which owns a 795 mile refined products pipeline system that extends from the upper Texas Gulf Coast to central Illinois.

The Products Pipeline System transports refined products, and to a lesser extent, petrochemicals such as ethylene and propylene and NGLs such as propane and normal butane. These refined products are produced by refineries and include gasoline, diesel fuel, aviation fuel, kerosene, distillates and heating oil. Refined products also include blend stocks such as raffinate and naphtha. Blend stocks are primarily used to produce gasoline or as a feedstock for certain petrochemicals. The Centennial Pipeline interconnects our Products Pipeline System near Creal Springs, Illinois, and effectively loops the Products Pipeline System between Beaumont, Texas and south Illinois. This permits effective supply of products to points south of Illinois as well as incremental product supply capacity to Midcontinent markets.

Our refined products pipelines and related activities include six refined products truck terminals located along the Products Pipeline System. In addition, we have refined products truck terminals located at Aberdeen, Mississippi and Boligee, Alabama adjacent to the Tombigbee River.

In November 2010, we acquired a refined products storage facility and barge dock located on the Houston Ship Channel in Pasadena, Texas.

In December 2006, we signed an agreement with Motiva Enterprises, LLC to construct and operate a refined products storage facility to support an expansion of Motiva's refinery in Port Arthur, Texas. In June 2010, we completed construction and commenced commercial operations of 20 storage tanks with a capacity of 5.3 MMBbls for gasoline and distillates, five 5-mile product pipelines connecting the storage facility to Motiva's refinery and distribution pipeline connections to the Colonial, Explorer and Sunoco pipelines. As part of a separate but complementary initiative, we constructed an 11-mile pipeline to connect the new storage facility in Port Arthur to our refined products terminal in Beaumont, Texas.

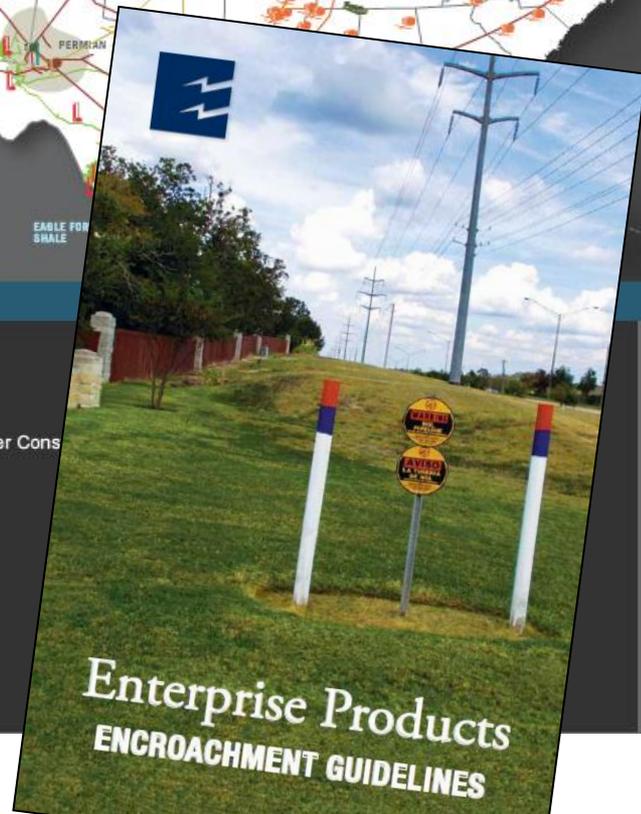
### Refined products pipelines

Description of Asset	Ownership Interest	Location	Length (Miles)	Useable Storage Capacity (MMBbls)
Products Pipeline System	100% <sup>(1)</sup>	Texas to Midwest and Northeast U.S.	4,693	17.5

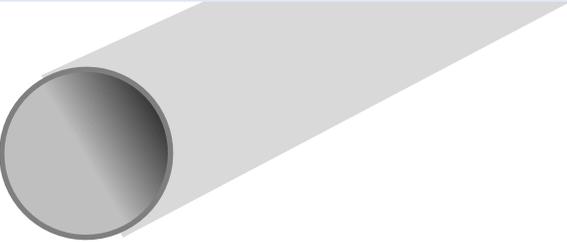
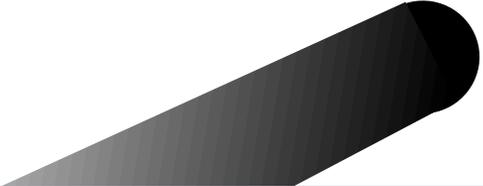


#### View Gulf Coast Region

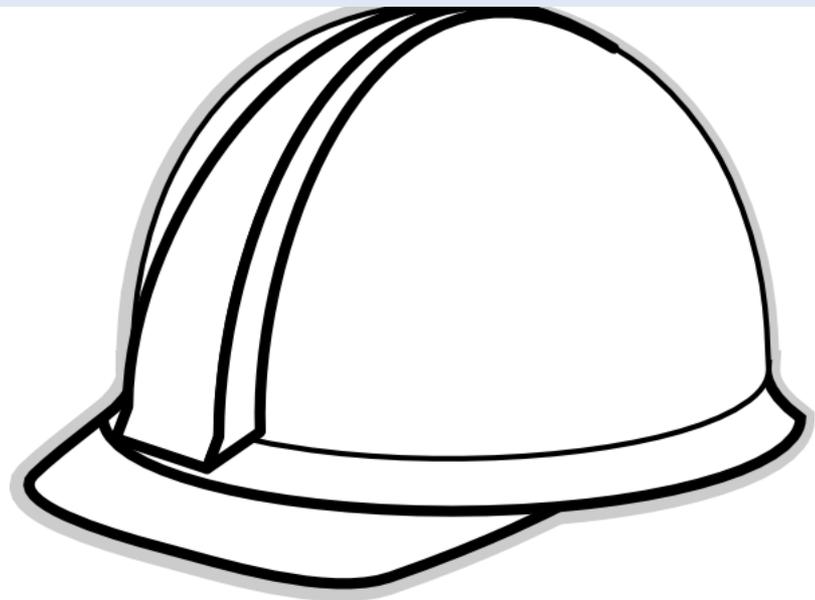
- Major Producing Basin
- Natural Gas Pipelines
- Natural Gas Pipelines (Under Cons)
- NGL/Propylene Pipelines
- Crude Oil Pipelines
- Refined Products Pipeline
- Liquids Storage
- Natural Gas Storage
- Crude Oil Terminal



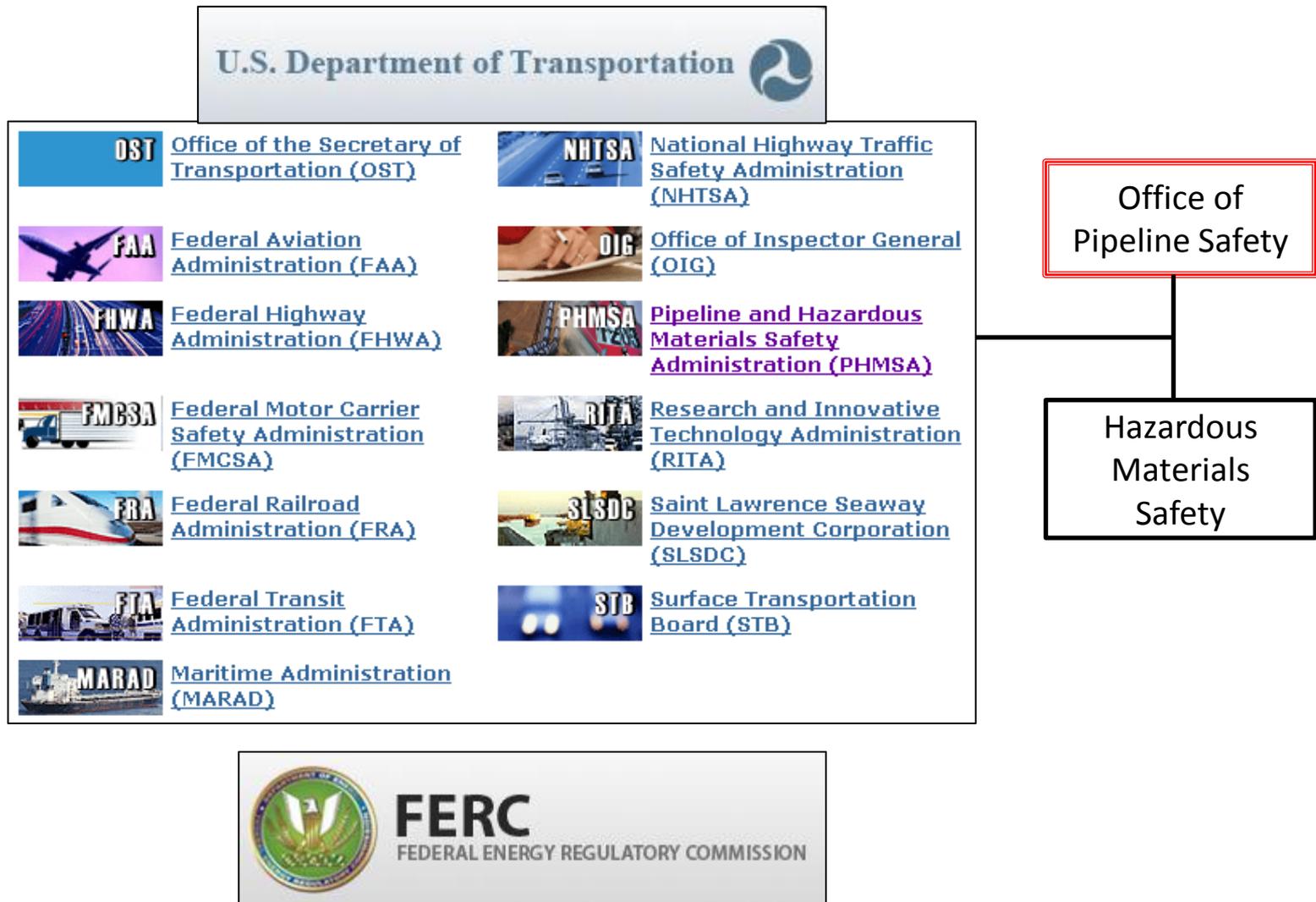
## Enterprise Products ENCROACHMENT GUIDELINES



# **Government's Role In Public Safety near Transmission Pipelines**



# Who Regulates Pipeline Safety...Federal



# Code of Federal Regulation

## Pipeline Safety - Title 49 Part 190 - 199

### SUBCHAPTER D--PIPELINE SAFETY

186-189		[Reserved]
190	190.1 to 190.341	PIPELINE SAFETY PROGRAMS AND RULEMAKING PROCEDURES
191	191.1 to 191.27	TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE; ANNUAL REPORTS, INCIDENT REPORTS, AND SAFETY-RELATED CONDITION REPORTS
192	192.1 to 192.1015	TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS
193	193.2001 to 193.2917	LIQUEFIED NATURAL GAS FACILITIES: FEDERAL SAFETY STANDARDS
194	194.1 to 194.121	RESPONSE PLANS FOR ONSHORE OIL PIPELINES
195	195.0 to 195.589	TRANSPORTATION OF HAZARDOUS LIQUIDS BY PIPELINE
196-197		[Reserved]
198	198.1 to 198.39	REGULATIONS FOR GRANTS TO AID STATE PIPELINE SAFETY PROGRAMS
199	199.1 to 199.245	DRUG AND ALCOHOL TESTING

# State Pipeline Safety Regulation

## Pennsylvania Public Utilities Commission



**PENNSYLVANIA**  
PUBLIC UTILITY COMMISSION

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- + [Natural Gas Companies & Suppliers](#)
- + [Energy Efficiency, Conservation & Saving Information](#)
- + [Prepare Now](#)
- + [Workshops & Publications](#)
- + [Act 13 \(Impact Fee\)](#)
- + [System Improvement Charges \(Act 11\)](#)
- + [Filing Complaints](#)
- + [Rates & Tariffs](#)
- [Pipeline Safety](#)
  - [Act 13 \(Impact Fee\)](#)
  - [Act 127 \(Pipeline Act\)](#)
  - [Gas Safety Seminar Registration Form](#)
- + [More Related Links](#)

## Pipeline Safety

### Jurisdiction

The Pennsylvania legislature has empowered the Public Utility Commission to direct and enforce safety standards for pipeline facilities and to regulate safety practices of certificated utilities engaged in the transportation of natural gas and other gas by pipeline.

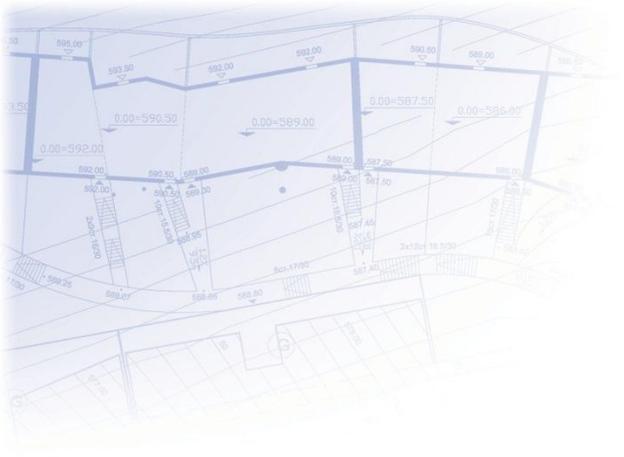
The Commission is authorized to enforce federal safety standards as an agent for the U.S. Department of Transportation's Office of Pipeline Safety. The safety standards apply to the design, installation, operation, inspection, testing, construction, extension, replacement and maintenance of pipeline facilities. The PUC may prescribe additional pipeline safety standards over and above federal standards, provided they are not in conflict.

Whenever the Commission uncovers pipeline safety violations, it is empowered to direct the utility to take necessary steps to correct the violation.

The PUC investigates all methods or practices of pipeline companies, including reports, records and other information. PUC investigators inspect the property, buildings, plants and offices of the pipeline companies and inspect books, records, paper, email and documents relevant to the enforcement of the rules and regulations.

If an inspector finds evidence of a possible violation, a violation report is written. The Gas Safety Section will notify the gas utility of the results of the onsite evaluation, specifically citing the gas pipeline safety regulation the gas utility is apparently violating. The gas utility must answer with a written response to the PUC within 30 days of notification.

The gas utility and the Gas Safety Section will work together to reach an agreement on how to correct the violation. If an agreement cannot be reached, the Gas Safety Section can refer the problem to the PUC for formal resolution by issuing a



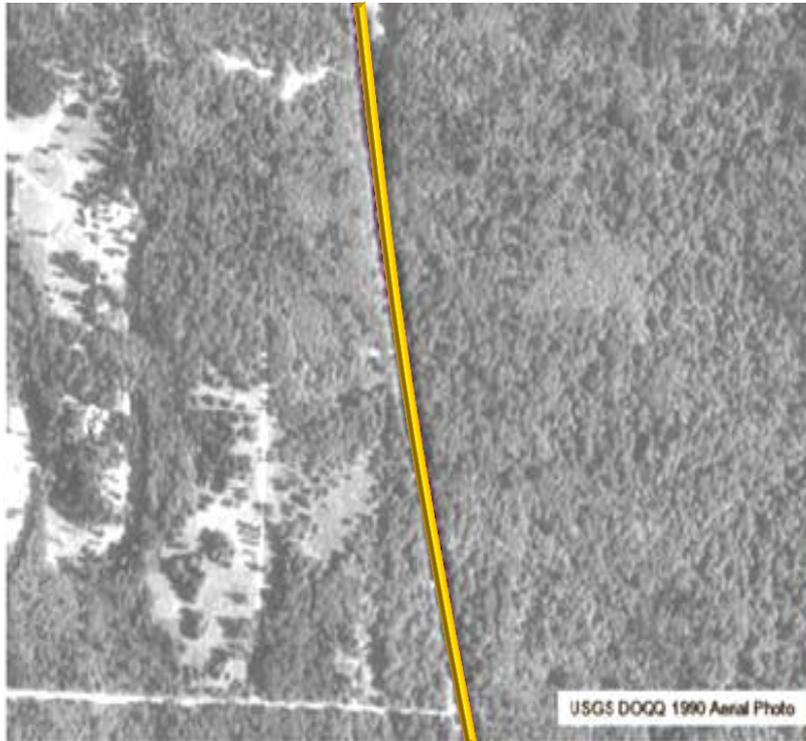
# Local Land Planning Authority



**Reducing potential impact of development near transmission pipelines**

# Growth along a transmission pipeline in Washington State...

1990



2002



# Increases Likelihood of Damage to the Pipeline

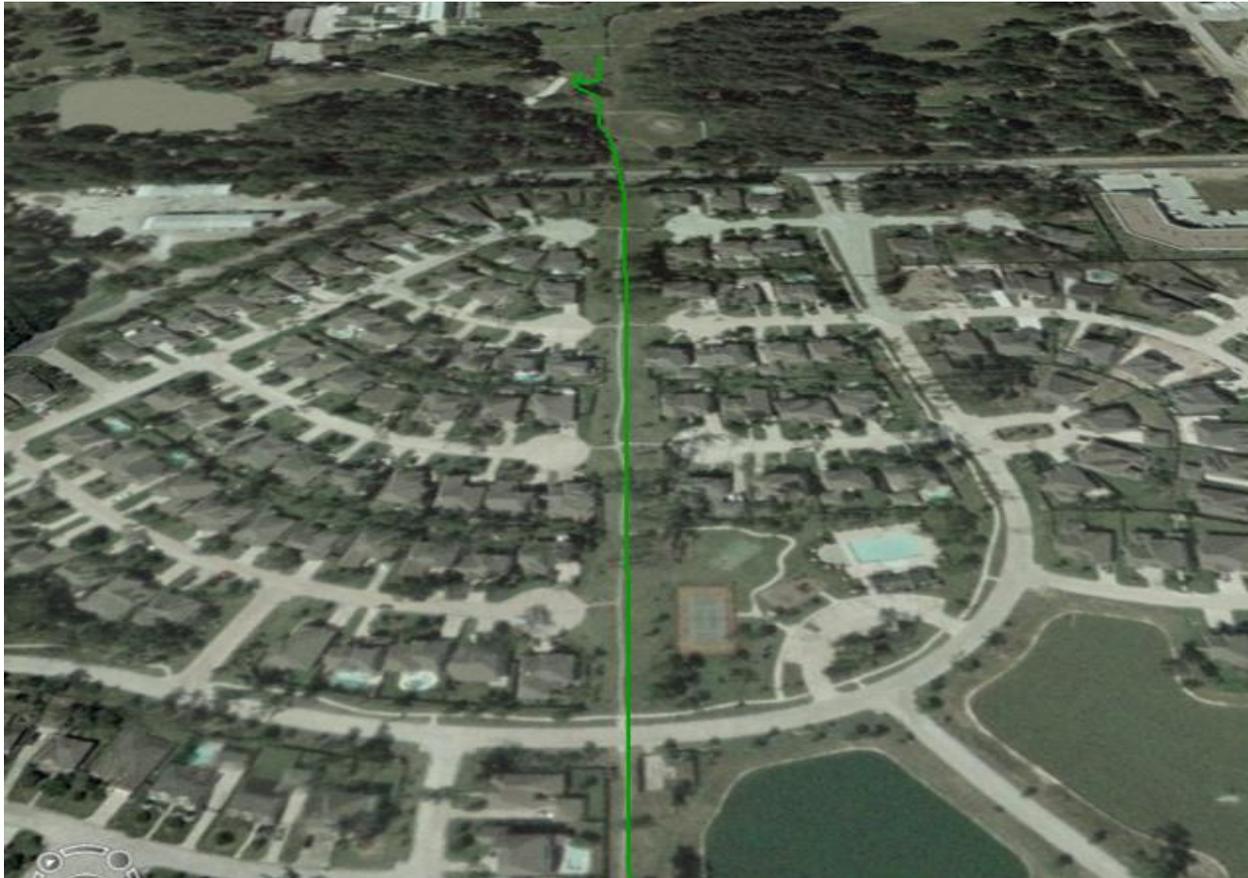


**Impedes Access for Emergency Response & Safe Maintenance/Operation of the Pipeline**

# Increases Consequences



# Choosing Better Options



# About the PIPA Report

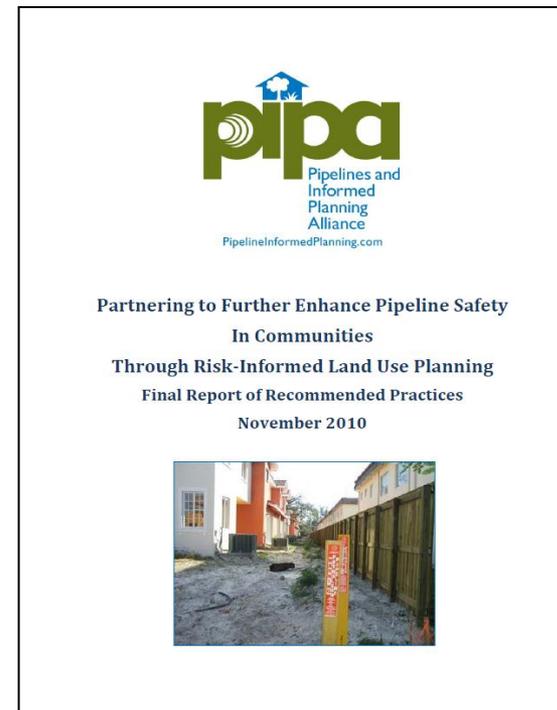
Created by a stakeholder group of ~130 participants representing a wide range of interests, organizations, and viewpoints on pipelines and community planning.

**Scope:** Existing Gas Transmission & Hazardous Liquid Pipelines

**Stakeholders:** Local Government, Property Developer/Owner, Pipeline Operator, Real Estate Commission

**Scenarios:** Baseline (implement in preparation for future) and New Development (Implement when use/development is proposed)

**43 Recommended Practices**



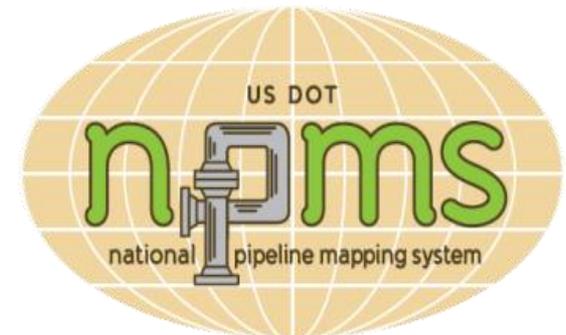
[www.PIPA-Info.com](http://www.PIPA-Info.com)

# RP BL01 Obtain Transmission Pipeline Mapping Data



- Online map
- Pipeline type & commodity
- Operator name and contact
- Pipeline shape file

[www.NPMS.phmsa.dot.gov](http://www.NPMS.phmsa.dot.gov)



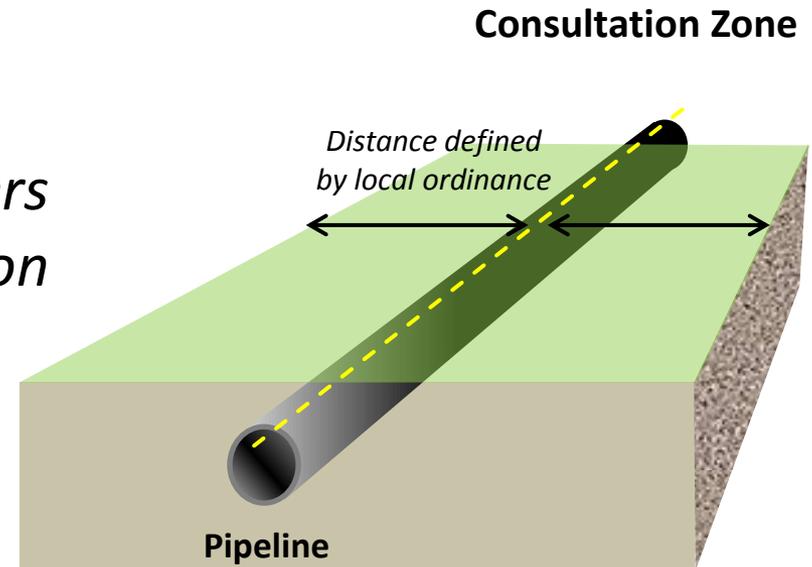


# RP BL05 – Consultation Zone

*Local governments should define a “consultation zone” to provide a mechanism for communication between property developers/owners and operators of nearby transmission pipelines when new land uses and property developments are being planned.*

## **Absent site-specific information:**

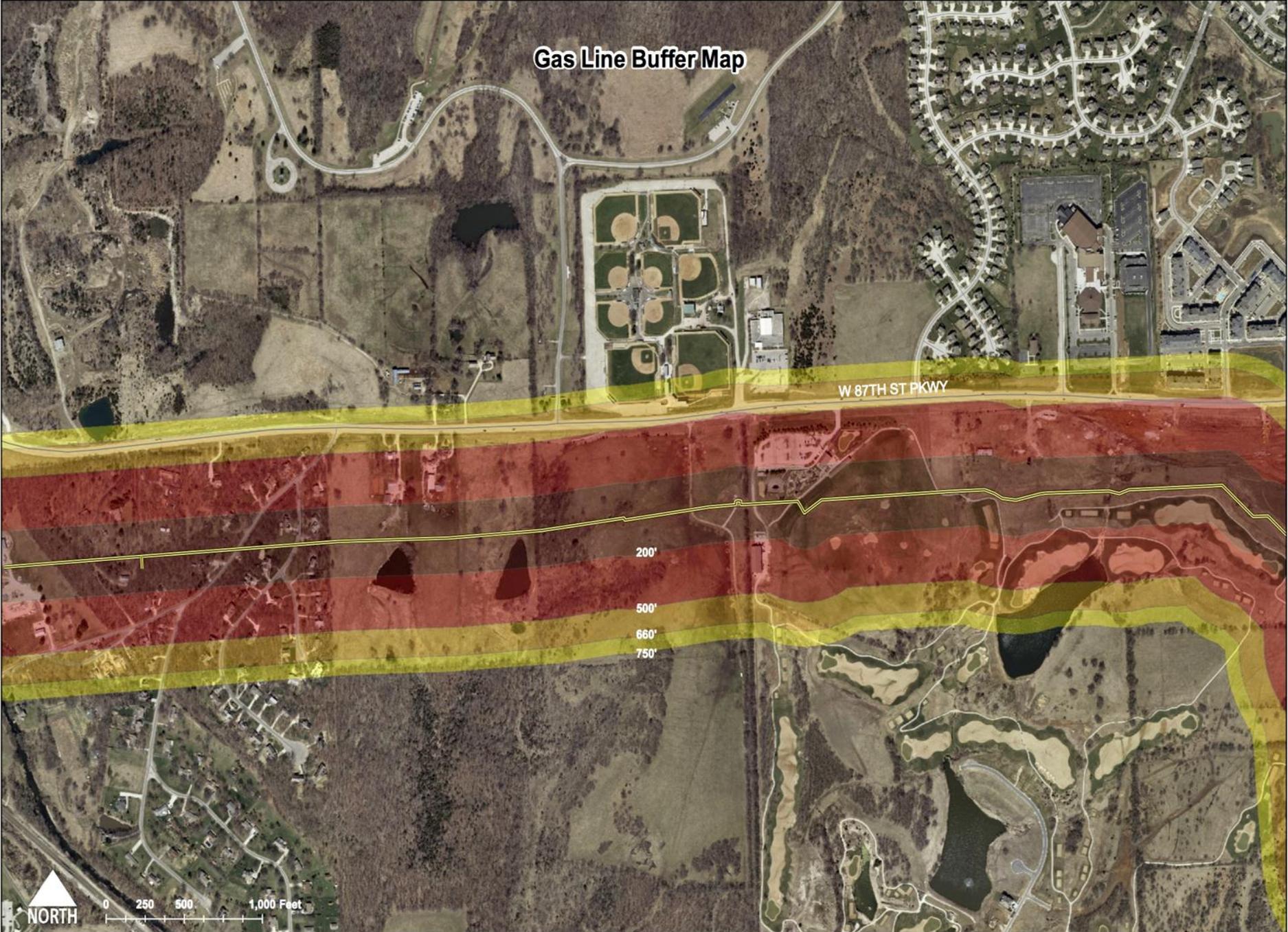
- Natural Gas Pipelines = 660’-1,000’
- Hazardous Liquid Pipelines = 1,000’-1,500’



# Gas Line Buffer Map

W 87TH ST PKWY

200'  
500'  
660'  
750'



# RP ND17 Reduce Transmission Pipeline Risk in New Development for Residential, Mixed-Use,



*...cul-de-sac streets should not be designed crossing a transmission pipeline as the only route of ingress or egress...*

# RP ND11 – Placing New Parking Lots



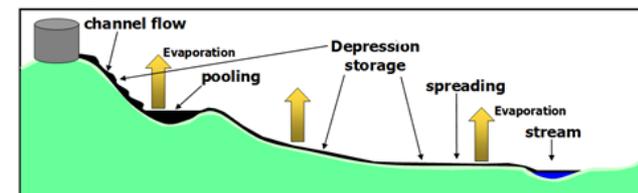
Reduce Transmission Pipeline Risk through Design and Location of New Parking Lots and Parking Structures

# Review Design for Safe Integration with Transmission Pipeline ROW

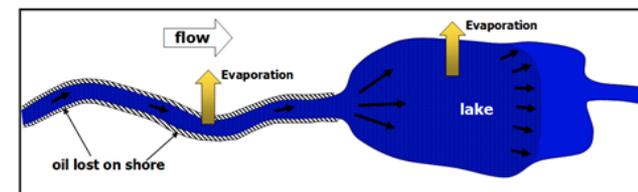
## Consider:

- Maximum separation between built environment and pipeline
- Alternate escape routes
- More stringent fire protection and fire endurance
- Future interference with pipeline operations and maintenance & emergency response
- Access for emergency response
- Locate water supply/sanitary sewers to prevent contamination in event of a pipeline release
- Fire, explosion, or toxic release impact models
- Prevention of future excavation damage
- Potential damage to pipeline due to impacts of development (i.e. runoff, overbearing)
- Avoiding difficult to evacuate buildings
- Effects of noise/odor from pipeline operations

Flow Over land

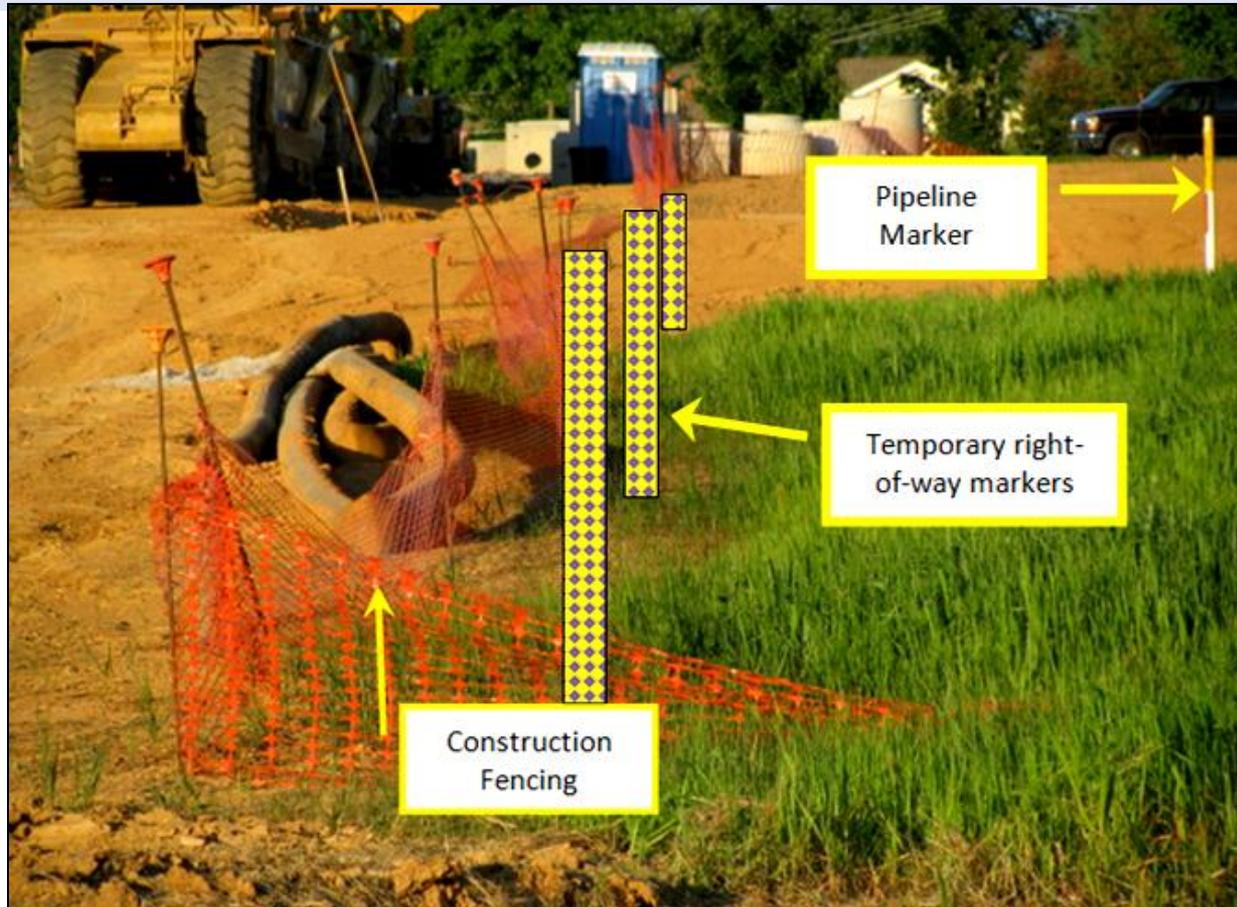


Flow in Surface Water Network



# Damage Prevention “Bucket”

## RP ND24 Temporary Markers for Construction



Install Temporary Markers on  
Edge of Transmission Pipeline Right-of-Way  
Prior to Construction Adjacent to Right-of-Way

# Emergency Preparedness “Bucket”

## RP ND 23 Consider Site Emergency Response Plans in Land Use Development

- Access to shutoff valves
- Access for emergency response personnel/equipment
- Location/capacity of water supply/fire hydrants
- Potential ICS, triage, and staging areas



...review of existing ROW can illustrate the benefit of land planning practices & identify locations for enhance emergency preparedness...

# **Resources for State & Local Governments**

# VDEM & PHMSA – Hazard Mitigation Plan

## Hazard Mitigation Planning for Pipelines

- ▶ PIPA General
- ▶ PIPA Audiences
- ▶ PIPA Downloads

### Site Pages

- ▶ About Pipelines
- ▶ Regulatory Oversight
- ▶ Safety Programs
- ▶ Public Outreach

State Pipeline Profiles:

Choose One...

Print

### What is a Hazard Mitigation Plan?

State and local governments create hazard mitigation plans (HMP) to identify ways they can protect the health, safety and economic interests of their communities by reducing the impacts of both natural and man-made hazards. Hazard mitigation is any action taken to permanently eliminate or reduce the long-term risk to human life and property from hazards. It is an essential element of emergency management, along with preparedness, response and recovery.

### PHMSA and Virginia Department of Emergency Management Pilot Project

In 2012, PHMSA and the Virginia Department of Emergency Management (VDEM) undertook a pilot project to determine an approach to encourage state and local governments to incorporate gas and hazardous liquid pipelines into their emergency management hazard mitigation plans. The focus of this effort is toward the inclusion of the PIPA Recommended Practices as mitigative solutions to identified pipeline hazards. The pilot initiative is supported by the ad hoc PIPA Communication Team and several pipeline operator representatives.

### Pipelines are Manmade Hazards

Gas and hazardous liquid pipelines are constructed by and for pipeline companies for the transportation of gas and hazardous liquids. By the nature of the potentially hazardous products they carry, pipelines should be included in the lists of hazards that communities consider when developing hazard mitigation plans. Knowledge of pipeline hazards can enable informed decisions to be made about how to manage the risks and develop mitigation strategies.



Pipeline manifold impacted by flooding

### Natural Hazards Present Risk to Pipelines

While pipelines are often thought of as presenting risks to communities, natural hazards can impact the integrity of pipelines. Although natural hazards are cited as the cause in fewer than ten percent (10%) of pipeline incidents, the failure of a large-diameter, high-pressure natural gas or hazardous liquid transmission pipeline during an earthquake or hurricane event can significantly complicate a communities' ability to respond and recover from the event.

### Pipelines are Critical Infrastructure

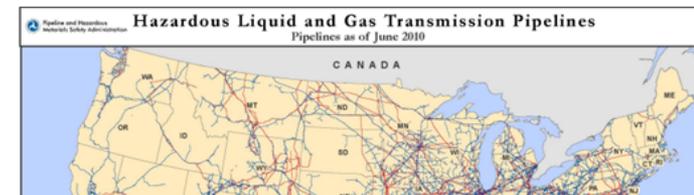
Our gas and hazardous liquid transmission pipeline systems are a vital part of the U.S. transportation and energy supply infrastructure. Airports, power generating stations, and major industries, as well as commercial businesses and residents depend on the energy and raw manufacturing products delivered via pipelines. Pipeline disruptions impact our economy, public health, and even national security.

### Pipeline Hazard Mitigation Strategies

PHMSA has identified four mitigation strategies wherein state and local governments have the authority to reduce the risk of pipeline hazards:

- Pipeline awareness - education and outreach,
- Excavation damage prevention,
- Land use and development planning near transmission pipelines, and
- Emergency response planning for pipeline emergencies.

PHMSA in partnership with the Virginia Department of Emergency Management is developing guide materials for incorporation of pipeline hazards into state and local mitigation plans.





# PIPA Online Resources

PIPA-info.com



Pipeline & Hazardous Materials Safety Administration

Pipeline Safety Stakeholder Communications

Pipeline Safety Connects Us All

- Home
- General Public
- Emergency Officials
- Local Officials
- Excavators
- Property Developer/Owner
- Pipeline Safety Advocates
- State Regulators
- Federal Agencies
- Industry
- Contact Us

## Land Use Planning and Transmission Pipelines

- ▶ PIPA General
- ▶ PIPA Audiences
- ▶ PIPA Downloads

### Site Pages

- ▶ About Pipelines
- ▶ Regulatory Oversight
- ▶ Safety Programs
- ▶ Public Outreach

State Pipeline Profiles:

Choose One...

Print

Partnering to Further Enhance Pipeline Safety  
In Communities  
Through Risk-Informed Land Use Planning  
Final Report of Recommended Practices  
November 2010

### Developing or building near a transmission pipeline?

The decisions you make can impact the safety of the community surrounding the pipeline.

Have you consulted with the pipeline operator?

Have you considered access for pipeline maintenance and emergency response?

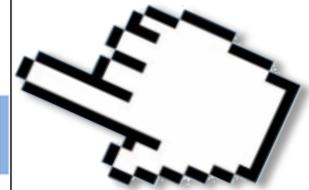
Is enhanced fire protection needed?

How will excavation damage to the pipeline be prevented?

The Pipelines and Informed Planning Alliance (PIPA) has developed recommended practices to help in making decisions about what, where and how to build safely near transmission pipelines.

Building Safe Communities:  
Pipeline Risk and Its Application to  
Local Development Decisions

Office of Pipeline Safety  
October, 2010



Information  
about  
National  
Pipeline  
Risk

Select your toolbox below to learn more.

Government  
Official



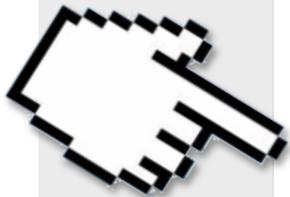
Property Owner  
/ Developer



Pipeline  
Operator



Real Estate  
Commission



# Land Use & Development near Transmission Pipelines Checklist

Similar to an Environmental Assessment Checklist

Can Be Used to:

- Facilitate Communication
- Inform Land Acquisition
- Guide Pre-Planning & Design
- Permit & Site Plan Review



LAND USE & DEVELOPMENT NEAR TRANSMISSION PIPELINES CHECKLIST  
 FOR PLANNING, DESIGN, COMMUNICATION, PERMIT AND SITE PLAN REVIEW (May 9, 2012)  
 (The recommended practices for land use and development near transmission pipelines are in the PIPA Report at [www.pipa-info.com](http://www.pipa-info.com))

I. PROPERTY DEVELOPER/OWNER INFORMATION		PIPELINE OPERATOR CONTACT INFORMATION	
PROPERTY DEVELOPER/OWNER NAME:		PIPELINE OPERATOR NAME:	
CONTACT NAME:		CONTACT NAME:	
E-MAIL:		E-MAIL:	
CURRENT MAILING ADDRESS:		WORK PHONE:	
City:	State:	Zip:	
WK PHONE:	HM PHONE:		
	MBL PHONE:	MOBILE PHONE:	FAX:

II. LOCATION OF BUILDING SITE	
ADDRESS: _____	
CITY _____	COUNTY _____ STATE _____
Proposed building encroaches onto pipeline right-of-way?	Visual evidence of pipeline markers or pipeline appurtenances?
Approximate distance of proposed structure to transmission pipeline?	Property encumbered by a pipeline easement?

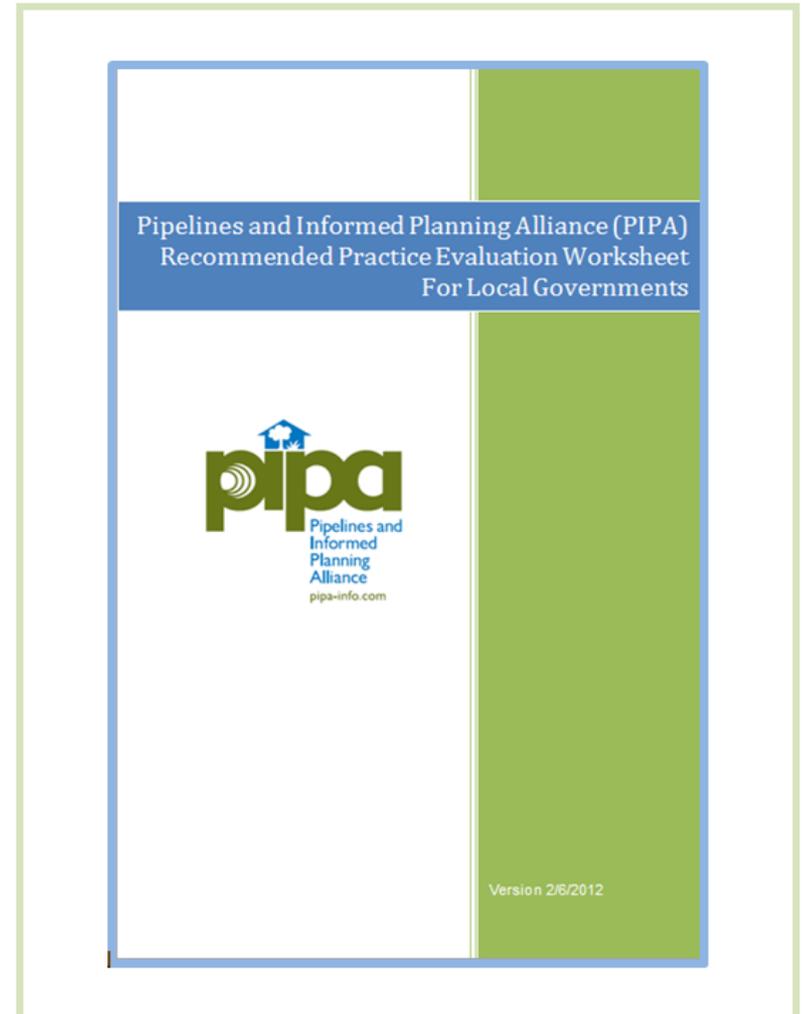
III. DESCRIPTION OF PROPOSED FACILITY TYPE & PERMIT CONDITIONS		
FACILITY TYPE	DEVELOPMENT PERMIT CONDITIONS	PUBLIC SPACE PERMIT CONDITIONS
Parking Lot Structure (ND11)	Consultation Zone Meeting (BL05)	Contact pipeline operator before excavation or blasting (ND23)
Road (ND12)	One-call designer locate ticket (ND02)	Enhanced damage prevention onsite meeting for operator and property developer prior to excavation, hand digging within 2' of pipeline (BL15)
Utilities (ND13)	Planning area enhanced safety requirements (BL06)	Pipeline operator representative on site to monitor all construction activities within the right-of-way (BL15)
Aboveground Water Management (ND 14)		Install Temporary Markers on Edge of Transmission Pipeline Right-of-Way Prior to Construction (ND24)
Water Supply and Sanitary Systems (ND16)		
Residential, Mixed-Use, Commercial (ND 17)		
Industrial Development (ND 19)		
Institutional Facility (ND20)		
Public Safety and Enforcement Facilities (ND21)		
Places of Mass Public Assembly (ND 22)		

IV. WILL THE PROPOSED DEVELOPMENT OF THE PROPERTY REQUIRE/ENTAIL ANY OF THE FOLLOWING (BL05)?		
Road crossings over the pipeline?	Extensive landscaping (including irrigation systems) within the easement area?	Changing the amount of cover (by adding or removing dirt) within the easement area?
Other utility lines crossing over or under the	Permanent structures or paving within the easement (e.g., paving, parking lots, buildings, pedestrian paths, signage, poles, retaining walls, septic systems, basketball/tennis courts, etc.)?	Construction equipment crossing the pipeline?
	Significant excavation (underground parking structures or building foundations, core samples, rock/mineral quarries, dams, etc.)?	Impounding water or building drainage ditches or other drainage facilities?
	Storing materials, equipment, vehicles, or other items within the easement area (e.g., construction materials, junk or scrap heaps, cut timber, boats, military equipment, etc.)?	

5 & 06)		Typical operating pressure and maximum allowable operating pressure?
elines(s)?		Integrity assessment - condition of pipeline?
		Timeframe of planned repairs, if any?
		Planning Area distance (BL 06)
as or		

# PIPA RP Evaluation Worksheet for Local Governments

*Perform a gap analyses comparing your community's current practices to the PIPA recommended practices.*





# PIPA Promotional Material



Land Development  
in Close Proximity  
to Transmission Pipelines

## COMMUNITY GROWTH REQUIRES INFORMED PLANNING

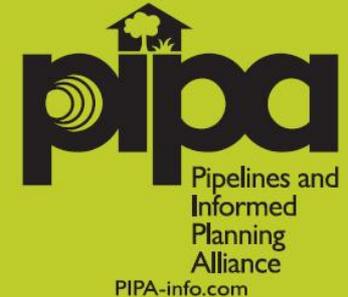


## ESPECIALLY NEAR TRANSMISSION PIPELINES

To reduce risk for your community – be aware of pipeline locations and their contents when making decisions involving land use planning and development.

Visit the Pipelines and Informed Planning (PIPA) website at [PIPA-info.com](http://PIPA-info.com) and become more informed about pipelines in your area.

Contact Enbridge at 000-000-0000 if you are planning development or land use changes near an Enbridge pipeline.



# US DOT PHMSA Technical Assistance Grants

**Purpose:** to make grants to local communities and organizations for technical assistance related to pipeline safety issues (includes implementing PIPA RPs & enhancing hazard mitigation plans to incorporate pipelines)

- Annual grants up to \$50K typically posted in Jan – Feb and awarded in September
- Sign up for alerts when the solicitation is posted on <http://www.grants.gov>
- CFDA number 20.710
- Funding number DTPH56-12-SN-000001

The screenshot shows the PHMSA website with a navigation bar including 'U.S. Department of Transportation', 'Pipeline & Hazardous Materials Safety Administration', and 'Pipeline Safety Stakeholder'. The main heading is 'Grants to States and Communities'. Below it, a sub-heading reads 'PHMSA provides grant opportunities designed to improve damage prevention, develop new technologies, or improve pipeline safety.' A list of grant opportunities is provided, including 'State Pipeline Safety Program Base Grants - CFDA 20.700 2012\*\*\*\*', 'State Damage Prevention Grants - CFDA 20.720', 'PHMSA Pipeline Safety Program One Call Grant - CFDA 20.721', and 'PHMSA Pipeline Safety Research and Development - CFDA 20.723'. A section titled 'Technical Assistance Grants' explains that the TAG program offers new opportunities to strengthen the depth and quality of public participation in pipeline safety matters. It states that TAG grants are awarded to individuals and groups to obtain funding for technical assistance in the form of engineering or other scientific analysis of pipeline safety issues and help promote public participation in official governmental subdivisions, or consortiums of such subdivisions. A nongovernmental group of individuals is eligible for a grant under the TAG program if its members are affected or potentially affected individuals who are incorporated as a non-profit organization in the state where they are located. The text also mentions that PHMSA first awarded technical assistance grants for projects beginning in 2009, and that the amount of any grant may not exceed \$50,000 for a single grant recipient and the funds authorized for these grants may not be derived from user fees collected under U.S.C. 60301. The number of awards will depend on the quality and number of applications received annually, and the dollar amount requested. A link is provided for past and current projects that have received PHMSA technical assistance grants.



### Project Search

Go

Advanced Search...

#### TAG Program

- Final Reports
- Library

#### General

- Spreadsheet of TAG Awards
- Questions and Comments
- PHMSA Communications

#### Context

- Print-Friendly
- Log In...

## Technical Assistance Grants

[Hide Project Summaries](#)

TAG Grants will be listed here.

#### Projects Starting in FY-2012

- [NEW! "AL - City of Athens - 2012 Technical Assistance Grant"](#) (DTPH56-12--PHPT01, End FY: 2013)  
Under this grant award the City of Athens will provide a hands-on pipeline safety training and education workshop to participants.
- [NEW! "DC - National Association of Counties Research Foundation - 2012 Technical Assistant Grant"](#) (DTPH56-12-G-PHPT02, End FY: 2013)

<http://primis.phmsa.dot.gov/tag>

- [NEW! "LA - Port of South Louisiana - 2012 Technical Assistance Grant"](#) (DTPH56-12-G-PHPT04, End FY: 2013)  
Under this grant award the Port of South Louisiana will develop and implement a Marine Pipeline Safety Outreach Program for all stakeholders operating along the Lower Mississippi River. Outreach includes developing a website, tri-fold guide, posters, safety calendar, and DVDs.
- [NEW! "PA - Pipeline Safety Coalition - 2012 Technical Assistant Grant"](#) (DTPH56-12-G-PHPT05, End FY: 2013)  
Under this grant award the Pipeline Safety Coalition will conduct a case study of Chester County, PA with first responders to identify first responder education and training needs specific to gas pipelines. Following the case study, recommendations will be provided to develop a core curriculum using model firefighters and a final report will be developed, with transferable results, to share with other first responders and communities.
- [NEW! "PA - League of Women Voters of PA Citizen Education Fund - 2012 Technical Assistance Grant"](#) (DTPH56-12-G-PHPT06, End FY: 2013)  
Under this grant award the League of Women Voters of PA Citizen Education Fund will provide educational resources for the Lehigh Valley Region of Pennsylvania regarding the role of federal, state, and local agencies in providing educational resources for local libraries, public forums, presentations, workshops, displays, internet, and website resources. The project will capitalize on existing resources. Results of this project will be posted on the LWVPA website.
- [NEW! "LA - Sulphur City of DBA/Sulphur Fire Department - 2012 Technical Assistance Grant"](#) (DTPH56-12-G-PHPT07, End FY: 2013)  
Under this grant award the Sulphur Fire Department will purchase three (3) handheld multi-gas detector calibration unit for the detectors. The new units will replace older units and offer new technology to responding to pipeline incidents.
- [NEW! "NC - Land-of-Sky Regional Council - 2012 Technical Assistance Grant"](#) (DTPH56-12-G-PHPT08, End FY: 2013)  
Under this grant award the Land-of-Sky Regional Council will evaluate the need to develop new training materials, conduct trainings throughout the three county region using gas identified the



## Site Pages

- ▶ About Pipelines
- ▶ Regulatory Oversight
- ▶ Safety Programs
- ▶ Public Outreach

State Pipeline Profiles:

Choose One...

Print

# Community Assistance & Technical Services

**The mission of the OPS Community Assistance & Technical Services (CATS) team is an ambitious one:**

*To advance public safety, environmental protection and pipeline reliability by facilitating clear communications among all pipeline stakeholders, including the public, the operators and government officials.*

An important aim of the CATS program is to reach out to all pipeline safety stakeholders. Responsibilities of CATS managers include:

- Communicating information to help communities understand pipeline risks and improve pipeline safety and environmental protection.
- Fostering effective communications regarding pipeline safety among PHMSA, other federal agencies, state pipeline safety regulators, elected and emergency officials, pipeline operators and the public.
- Serving as "honest brokers" in facilitating permits required for safety-related pipeline repairs.

In carrying out their responsibilities, CATS program managers perform a variety of activities. These include:

- Participating with state and regional damage prevention groups and the [Common Ground Alliance](#) to further the implementation of damage prevention best practices.
- Helping states assess their damage prevention programs and opportunities.
- Serving as designated PHMSA representatives before a wide variety of stakeholders. CATS managers routinely provide informational presentations to various stakeholder groups to broaden public awareness of our country's energy transportation pipeline systems.
- Meeting with federal, state and local regulatory agencies, and pipeline operators to facilitate timely issuance of permits necessary for conducting pipeline integrity activities.
- Providing consultation to regulators, regulated parties and other stakeholders regarding new and amended regulatory requirements.
- Responding to public inquiries and complaints regarding pipelines and pipeline operations.

## OPS Eastern Region

*Connecticut; Delaware; Maine; Maryland; Massachusetts; New Hampshire; New Jersey; New York; Pennsylvania Rhode Island; Vermont; Virginia; Washington, D.C.; West Virginia.*

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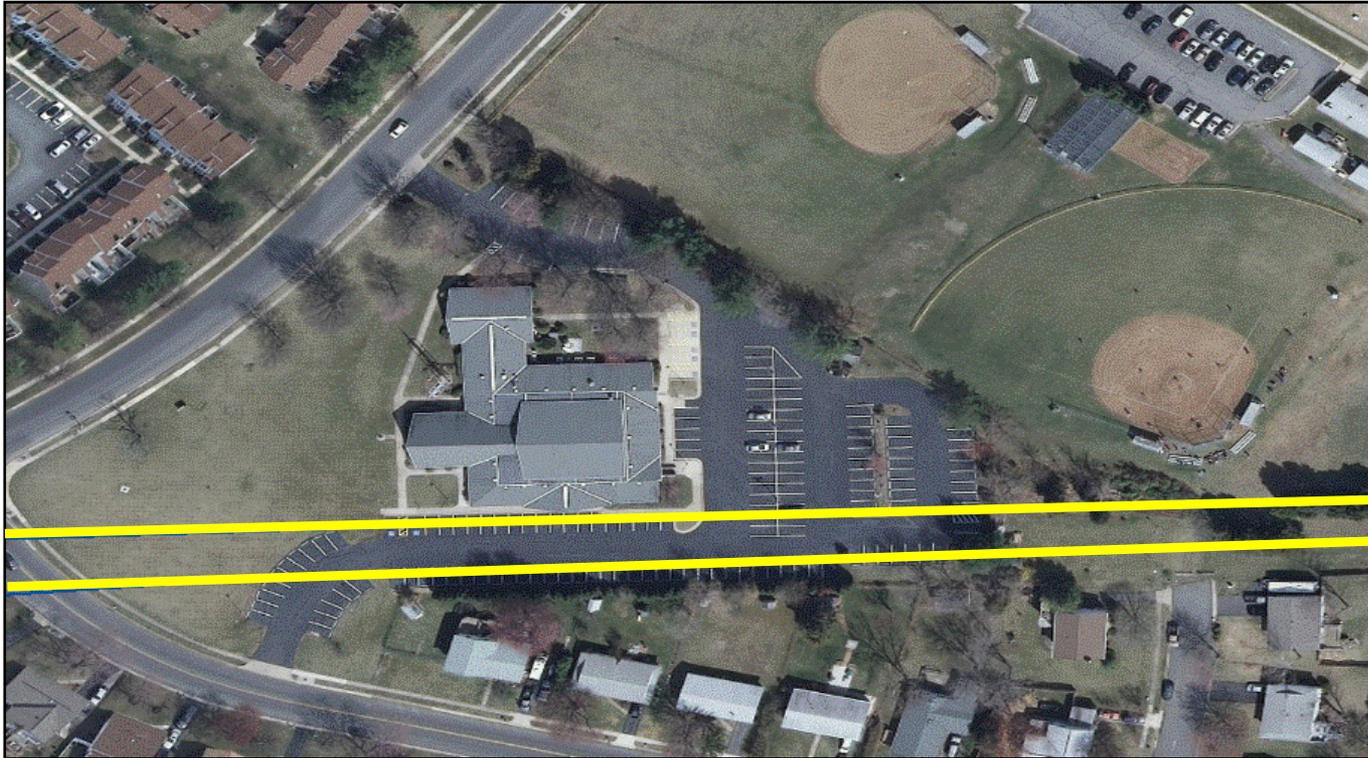
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Phone: (202) 550-0481

# Next Steps for Local Governments

- Locate pipelines in you jurisdiction (NPMS)
- Read the PIPA Report & Tools
- Assess your communities level of risk tolerance for land use/development near pipelines
- Put a plan in place to address your community's needs using PIPA recommended practices
- Consider pipelines in your hazard mitigation plan
- Contact the pipeline operators in your area to inform them of the actions

# RP ND22 Reduce Transmission Pipeline Risk through Design and Location of New Places of Mass Public Assembly



*...Evacuation routes should...have a safe means of egress with exits located where they would not be made inaccessible by the impacts of a pipeline incident...*

***Questions?***

# AICP #e. 23343



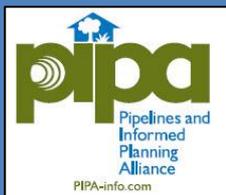
Please visit the Certification Maintenance section of APA's website ([www.planning.org/cm](http://www.planning.org/cm)) to claim your credits; you may use the following steps:

- (1) Login using your ID# and password.
- (2) Select My CM log
- (3) Select Add Credits
- (4) Under Browse you have the option of searching by Date, Provider, or Distance Education and using the search box to type in the name of the event or activity and clicking go
- (5) If you search Activities by Date, on the left of the calendar view, please use the "previous" and "next" options to locate the month. On the right of the calendar view, please use the "previous" and "next" options to select the year
- (6) If searching Activities by Provider, using the letters, please select the initial of the first name of the provider. From the list, then select the name of the provider
- (7) Select the "Past Events" tab to locate the event you have attended
- (8) If searching Distance Education, after selecting, you will see a list of all distance education activities. To select, click on the name of the activity
- (9) A pop-up box will appear.
- (10) Please rate, add a comment (optional), and click on the Ethics statement and answer
- (11) Click submit and the CM credits should appear in your CM log

If you have problems reporting your CM credits or have general questions about our CM program, please contact [AICPCM@planning.org](mailto:AICPCM@planning.org). APA's customer service associates are available to assist you.

# Thank you for your time and interest in pipeline safety!

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