



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



Pipelines and Informed Planning Alliance (PIPA)



**Presented to NACo Annual Conference & Expo 2011
July 18, 2011**

Presented by:

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PHMSA/Office of Pipeline Safety





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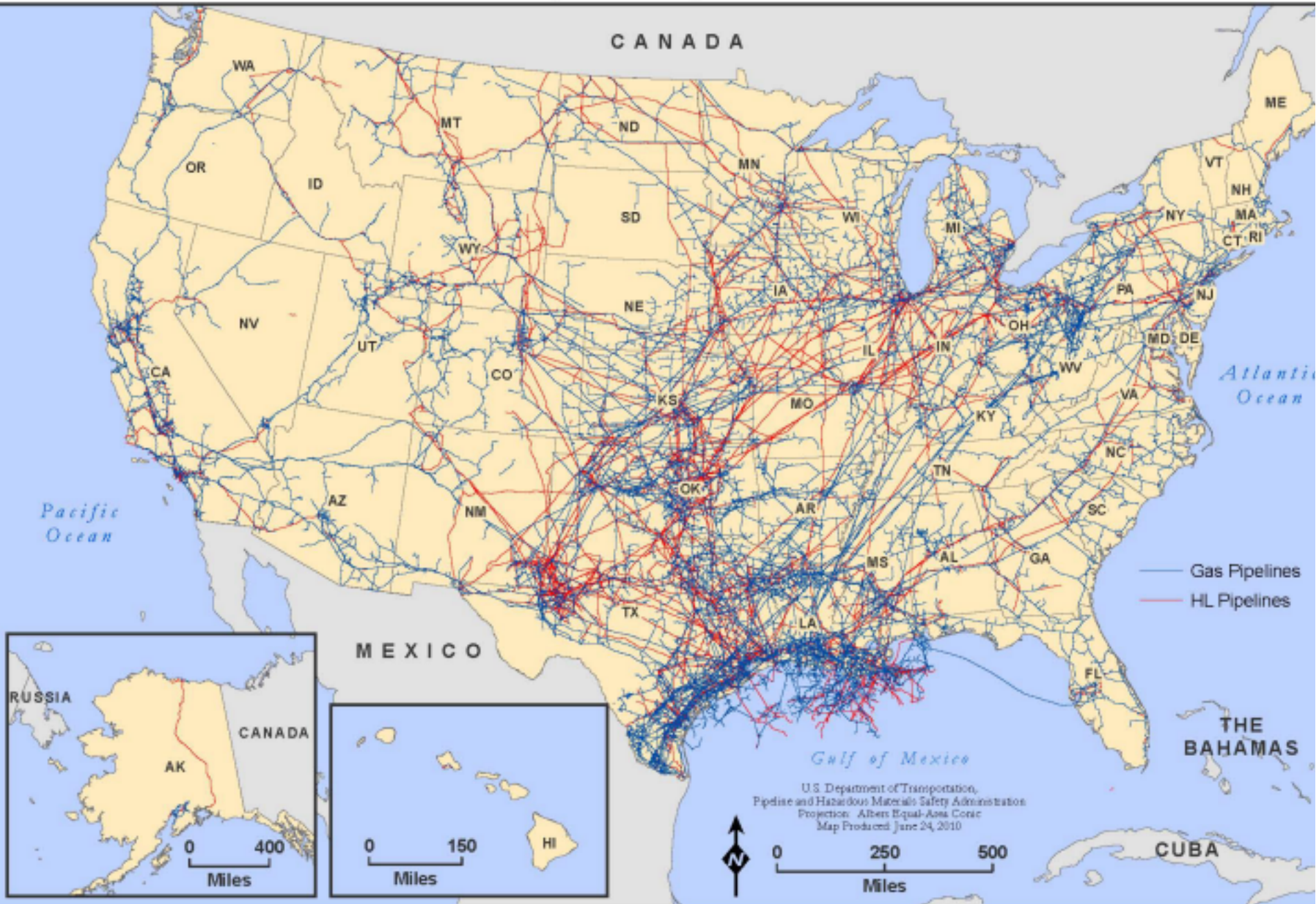
PIPA Recommended Practices are not Regulation



Know what's below.
Call before you dig.

Hazardous Liquid and Gas Transmission Pipelines

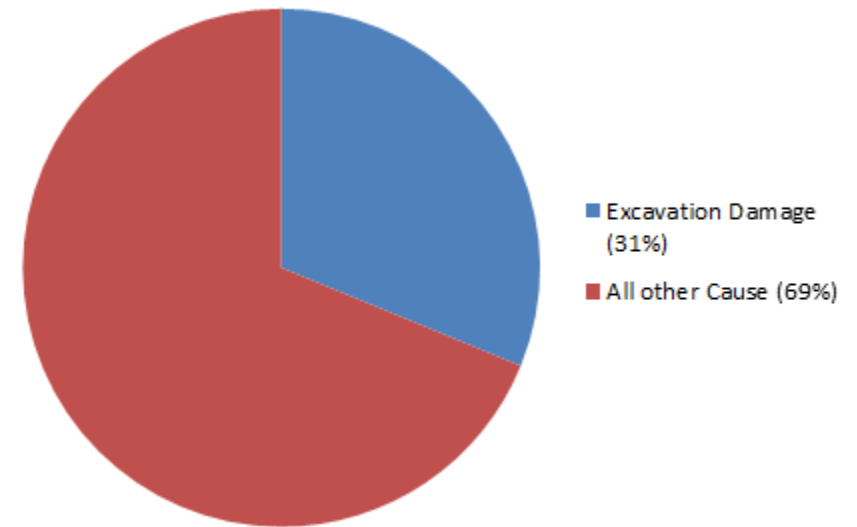
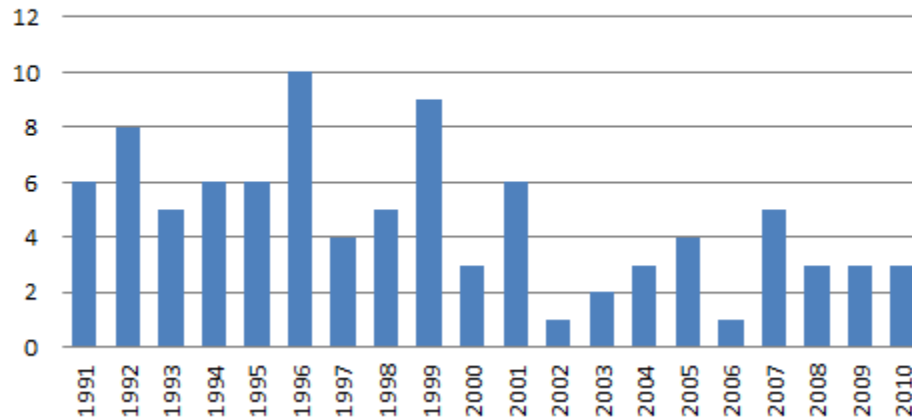
Pipelines as of June 2010



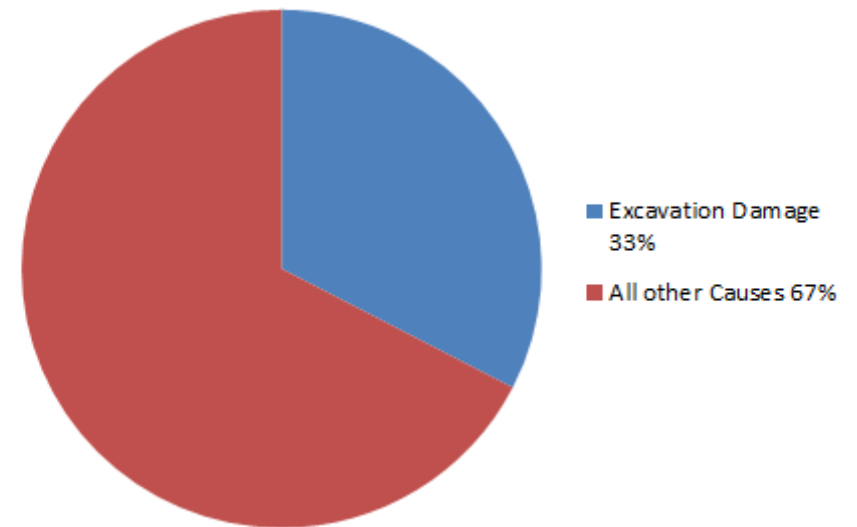
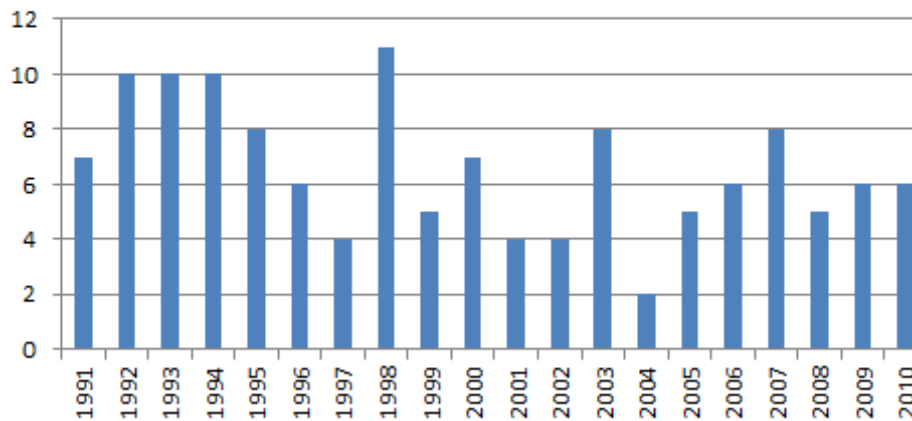


Pipeline Incident Data Trends

Serious Hazardous Liquid Pipeline Incidents, 1991 - 2010



Serious Gas Transmission Pipeline Incidents, 1991 - 2010





Transmission Pipelines and Land Use Planning

- Land use planning and development can have a direct impact on pipeline safety by putting people in close proximity to transmission pipelines.
- PIPA recommended practices can enhance pipeline safety through communication of risk information for land use planning and property development near transmission pipelines.





PIPA Report



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



www.PIPA-Info.com

Discussion Areas

- Stakeholders
- Transmission pipeline benefits and risks
- Recommended practices
- Appendices including model ordinances and technical information



PIPA Recommended Practices

Identified with/directed to stakeholders:

- *Local Government*
- *Property Developer / Owner*
- *Transmission Pipeline Operator*
- *Real Estate Commission*

Categorized to be implemented by stakeholder:

- *Baseline (BL) –in preparation for future land use and development. (7 for local government)*
- *New Development (ND) –when specific new land use and development projects are proposed. (22 for local government)*

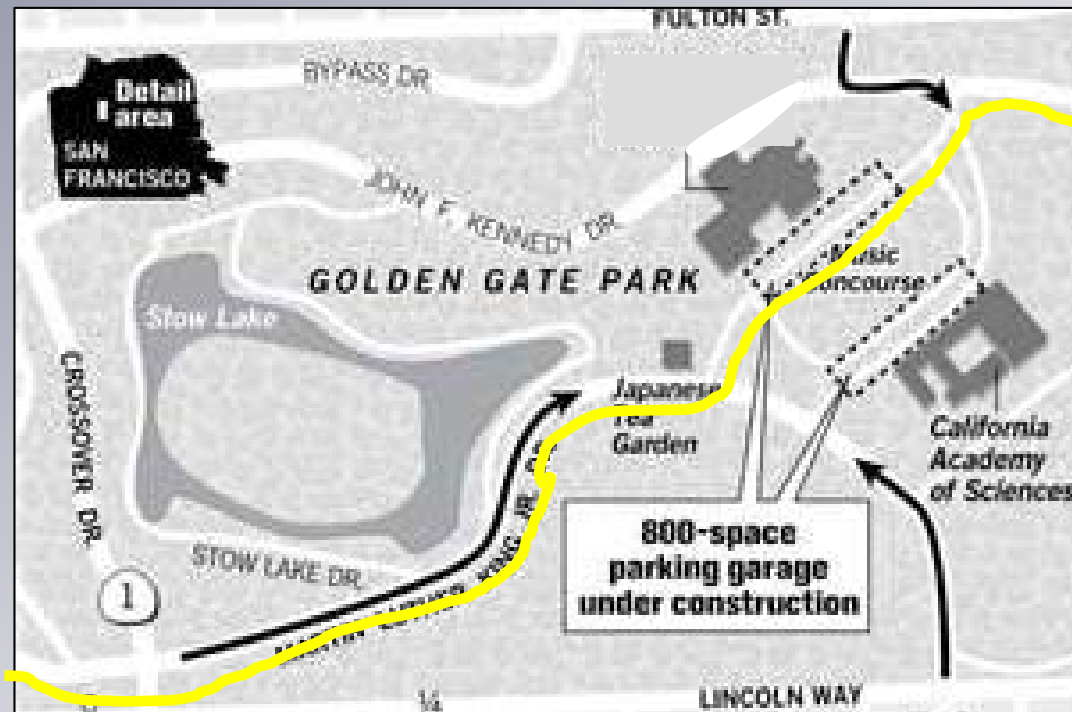


Examples - Recommended Practices - Local Government

- BL01** Obtain Transmission Pipeline Mapping Data
- BL04** Adopt Transmission Pipeline Consultation Zone Ordinance
- BL06** Implement New Development Planning Areas around Transmission Pipelines
- BL14** Participate to Improve State Excavation Damage Prevention Programs
- ND08** Collaborate on Alternate Use and Development of Transmission Pipeline Right-of-Way
- ND11** Reduce Transmission Pipeline Risk through Design and Location of New Parking Lots and Parking Structures
- ND12** Reduce Transmission Pipeline Risk through Design and Location of New Roads
- ND23** Consider Site Emergency Response Plans in Land Use Develop



ND11 Reduce Transmission Pipeline Risk through Design and Location of New Parking Lots and Parking Structures



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



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Pipeline Risk?

What are the potential risks to building next to a pipeline?

For general discussion see, *Building Safe Communities: Pipeline Risk and its Application to Local Development Decisions*

For specific information, communicate with the operator.

Early communication among stakeholders is key to successful risk-informed planning.



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

Office of Pipeline Safety
October, 2010



PIPA Website

PHMSA Pipeline Safety Program

Stakeholder Communications

- Home
- General Public
- Local Officials
- State Regulators
- Federal Agencies
- Emergency Officials
- Advocates
- Industry
- Excavators

Contact Us

Print

PIPA Pages

PIPA General

- Land Use Planning (PIPA)
- Table of Recommended Practices

Audiences

- Local Government
- Property Developer/Owner
- Transmission Pipeline Operator
- Real Estate Commission

Downloads

- PIPA Report (PDF)
- PIPA Risk Report (PDF)

Site Pages


- Pipeline Basics
- Safety Standards
- Inspection
- Enforcement (PHMSA)
- Enforcement (States)
- Incident & Mileage Reports
- Operator Information
- Damage Prevention
- Alternative Fuels
- Community Assistance and Technical Services
- Land Use Planning (PIPA)**
- Public Meetings
- Public Awareness

Land Use Planning and Transmission Pipelines

Pipeline safety can be enhanced by making risk-informed decisions for land use planning and development near transmission pipelines.

Abundant energy drives our nation's economy. Oil and natural gas provide energy for industrial processes, electricity generation, transportation, and residential use. Hazardous liquid and natural gas transmission pipelines play a crucial role by safely and efficiently transporting almost 100 percent of the natural gas and about 66 percent of the ton-miles of oil and refined petroleum products consumed in the United States. Many transmission pipelines were constructed in sparsely populated rural areas; however, community growth has turned many of these once rural areas into urban and suburban areas with residential, commercial and industrial development.

Community growth can have an impact on transmission pipeline safety. Placing people in proximity to transmission pipelines can pose potential risks of concern to all stakeholders, resulting from the unintentional release of products transported through the pipelines. Such releases can result from a variety of causes and may result in injuries or fatalities as well as property and environmental damage. Although the risk of any individual being injured by a transmission pipeline incident is very low, land development in proximity to pipelines can increase such risk.



PIPA-info.com

One way to reduce transmission pipeline risk is for communities to be aware of transmission pipeline locations and informed of pipeline risks when making decisions regarding land use planning and development. To assist communities become risk-informed about transmission pipelines and make better land use planning and development decisions related to pipelines, PHMSA initiated and supports the **Pipelines and Informed Planning Alliance (PIPA)**.


PIPA is a collaborative effort by a spectrum of pipeline safety stakeholders. PIPA has developed recommended practices for protecting communities, protecting transmission pipelines, and communicating among stakeholders. The PIPA recommended practices can help communities make risk-informed decisions for land use planning and development adjacent to transmission pipelines. You can access the PIPA Recommended Practices through the enhanced menu on the left side of this page. The PIPA Report is available in its entirety from links there and below.

PIPA Report (Published November 17, 2010): Partnering to Further Enhance Pipeline Safety In Communities Through Risk-Informed Land Use Planning: Final Report of Recommended Practices

Table of Recommended Practices: Interactive list of Recommended Practices from PIPA Report

PIPA Risk Report (Published October 21, 2010): Building Safe Communities: Pipeline Risk and its Application to Local Development Decisions

PIPA Toolbox: Convenient access to PIPA-related events, presentations, press releases, articles, images and relevant reference documents.



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www.PIPA-Info.com

<http://www.PipelineInformedPlanning.com>



PIPA Communications Team

- PIPA Communications Team developed plans for communicating and encouraging adoption and implementation of the PIPA recommended practices
- Encourages all stakeholders to begin consideration of the recommended practices.



Communities Implementing PIPA Recommended Practices



Grants



2009



2010



Federal Technical Assistance Grants

- Purpose: to make grants to local communities and organizations for technical assistance related to pipeline safety issues
- Technical assistance is defined as engineering or other scientific analysis of pipeline safety issues
- Funding can also be used to promote public participation in official proceedings pertaining to pipeline safety
- Awardees must make findings available to relevant operators and foster open communication between interested parties





2012 TAGs

- Solicitation will be posted Dec.- Jan. 2011/close Feb. 2012
- Awards to be made by September 2012
- Sign up for alerts on <http://www.grants.gov> to be notified when the solicitation is published
- Please help PHMSA spread the word





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Technical Assistance Grants

Show Project Summaries

TAG Grants will be listed here.

Projects Starting in FY-2010

- "PA - PA State University - Forest Vegetation as a Bioindicator to Detect Leaking Natural Gas Pipelines" (DTPH56-10-G-PHPT01, End FY: 2011)
- "NE - City of Seward - Hydrocarbon Monitoring for 30" oil pipeline through City of Seward Wellhead" (DTPH56-10-G-PHPT02, End FY: 2011)
- "NM - Eastern Sandoval County Arroyo Flood Control Authority - Las Huertas Creek Channel Stability and Prudent Line Assessment" (DTPH56-10-G-PHPT03, End FY: 2011)
- "LA - Greater Lafourche Port Commission - Marine Pipeline Damage Prevention and Public Awareness Program" (DTPH56-10-G-PHPT04, End FY: 2011)
- "NJ - Kearny Fire Department - Pipeline Emergency Response Assistance" (DTPH56-10-G-PHPT05, End FY: 2011)
- "FL - Leon County - Leon County High Pressure Pipeline Location Project" (DTPH56-10-G-PHPT06, End FY: 2011)
- "TN - Oak Ridge Utility District - ORUD's GIS Project" (DTPH56-10-G-PHPT07, End FY: 2011)
- "WA - Pipeline Safety Trust - Development & Distribution of Guide on How Landowners Can Become Significant Partners in Ensuring Safety of Pipelines" (DTPH56-10-G-PHPT09, End FY: 2011)
- "PA - S.A.V.E. - Development & Implementation of Chester County Coalition for Safety and Reliability of Pipeline Operations" (DTPH56-10-G-PHPT10, End FY: 2011)
- "OH - Shawnee Township Fire Department - Public Education Media Blast to Educate on the New 8-1-1" (DTPH56-10-G-PHPT11, End FY: 2011)
- "WA - County of Skagit - Development of Regulations Pertaining to Transmission Pipeline Safety" (DTPH56-10-G-PHPT12, End FY: 2011)
- "SD - SD State University - Improving Safety of Crude Oil and Regional Water System Pipeline Crossings" (DTPH56-10-G-PHPT13, End FY: 2011)
- "ND - Stutsman County Sheriff Department - Pipeline Safety" (DTPH56-10-G-PHPT15, End FY: 2011)
- "AL - Southeast Alabama Gas District - Collect Field Data for GIS System" (DTPH56-10-G-PHPT16, End FY: 2011)
- "AL - Municipal Utilities Board of Decatur - Collect GPS Field Data for GIS System" (DTPH56-10-G-PHPT18, End FY: 2011)
- "TN - City of Etowah - Data Collection for Risk Analysis" (DTPH56-10-G-PHPT19, End FY: 2011)
- "FL - City of Perry - Geographic Information System of Distribution System" (DTPH56-10-G-PHPT20, End FY: 2011)
- "AL - The Gas Board of the City of Fayette - Create GIS System" (DTPH56-10-G-PHPT21, End FY: 2011)
- "FL - City of Chattahoochee - Geographic Information System of Distribution System" (DTPH56-10-G-PHPT22, End FY: 2011)

Projects Starting in FY-2009

- "WA - Association of Washington Cities - Recommended practices for land use planning and permitting for pipelines" (DTPH56-09-G-PHPT16, End FY: 2011)
- "FL - City of Blountstown - Create a geographic information system (GIS) of distribution system" (DTPH56-09-G-PHPT22, End FY: 2010)
- "PA - Bradford Glen HOA - Evaluate and assess safety of co-locating proposed AES pipeline adjacent to Columbia pipeline in a High Consequence Area" (DTPH56-09-G-PHPT14, End FY: 2011)
- "TX - Forth Worth League of Neighborhood Associations - State of gas pipelines in Fort Worth report" (DTPH56-09-G-PHPT06, End FY: 2011)
- "AK - Copper River Watershed Project - Alaska North Slope, Yukon River drainage, Copper River drainage" (DTPH56-09-G-PHPT18, End FY: 2010)
- "MO - City Utilities of Springfield - Upgrade to City Utilities of Springfield Leak Training area and Fire Training Sites" (DTPH56-09-G-PHPT05, End FY: 2010)
- "AZ - City of Mesa - Elevating community awareness and education relating to pipeline safety using targeted interactive advertising" (DTPH56-09-G-PHPT08, End FY: 2010)
- "OH - City of Hamilton - High pressure gas distribution main engineering and integrity study" (DTPH56-09-G-PHPT13, End FY: 2010)
- "GA - City of Elberton - Create GIS mapping documents of natural gas system" (DTPH56-09-G-PHPT25, End FY: 2010)
- "FL - City of Clearwater - Geographic information system (GIS) of distribution system" (DTPH56-09-G-PHPT23, End FY: 2010)
- "MT - Northern Plains Resource Council - Montana Dakota Pipeline Safety Landowner Exchange Project" (DTPH56-09-G-PHPT11, End FY: 2010)
- "NE - Nebraska City Utilities - Purchase a remote methane leak detector to enhance pipeline leak detection capabilities" (DTPH56-09-G-PHPT24, End FY: 2010)
- "KS - Kansas Municipal Utilities - Emergency response technical assistance" (DTPH56-09-G-PHPT19, End FY: 2010)
- "FL - Lake Apopka Natural Gas - Create a geographic information system (GIS) of distribution system" (DTPH56-09-G-PHPT20, End FY: 2010)
- "GA - Toccoa Natural Gas - Create a geographic information system (GIS) of distribution system" (DTPH56-09-G-PHPT21, End FY: 2010)
- "PA - West Vincent Township - Analysis of Dominion Keystone project for northern Chester County, Pennsylvania" (DTPH56-09-G-PHPT09, End FY: 2010)
- "TN - Oak Ridge Utility District - System monitoring, incorporating integrity management data into GIS, public awareness educational advertising" (DTPH56-09-G-PHPT15, End FY: 2010)
- "WA - Pipeline Safety Trust - Effective communication strategies to engage local public officials to increase pipeline safety" (DTPH56-09-G-PHPT12, End FY: 2011)
- "KY - Prestonsburg City Utilities Commission - Upgrade and enhance gas leak detection program with new safety equipment and training" (DTPH56-09-G-PHPT10, End FY: 2010)
- "PA - Safety, Agriculture, Villages, & Environment, Inc. (S.A.V.E.) - Education and outreach regarding existing and proposed pipelines" (DTPH56-09-G-PHPT07, End FY: 2011)
- "CA - The Tides Center - Evaluation of older pipelines in a pipeline corridor with environmental and safety issues" (DTPH56-09-G-PHPT17, End FY: 2011)
- "MO - City of St. Peters - Pipeline safety community awareness webpages" (DTPH56-09-G-PHPT02, End FY: 2010)
- "SD - Brookings County - Develop a pipeline safety appendix to the Brookings County Zoning Ordinance" (DTPH56-09-G-PHPT03, End FY: 2010)
- "TX - City of Fort Worth - GIS to manage expanding pipeline systems within Dallas/Fort Worth metro area" (DTPH56-09-G-PHPT01, End FY: 2010)
- "VA - Montgomery County - Underground pipeline inventory and assessment for incident management" (DTPH56-09-G-PHPT04, End FY: 2010)


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SD - Brookings County - Develop a pipeline safety appendix to the Brookings County Zoning Ordinance

Main Objective

The County will use the Pipelines and Informed Planning Alliance (PIPA) Consultation and/or Planning Zone best practices to developing a zoning ordinance to protect pipeline rights of way.


CONTRACT DOCUMENTS

DTPH56-09-G-PHPT03 - Brookings Executed
 [DTPH56-09-G-PHPT03 - BROOKINGS EXECUTED.PDF](#) (425,387 bytes) [\[VIEW\]](#) [\[DOWNLOAD/SAVE...\]](#)

FINAL REPORT

Final Report
 [FINAL_REPORT.PDF](#) (22,413 bytes) [\[VIEW\]](#) [\[DOWNLOAD/SAVE...\]](#)

OTHER FILES

Pipeline Brochure
 [PIPELINE_BROCHURE.PDF](#) (213,876 bytes) [\[VIEW\]](#) [\[DOWNLOAD/SAVE...\]](#)

Transmission Pipeline Risk Reduction Overlay District
 [TRANSMISSION_PIPELINE_RISK_REDUCTION_OVERLAY_DISTRICT.PDF](#) (124,695 bytes) [\[VIEW\]](#) [\[DOWNLOAD/SAVE...\]](#)

Fast Facts	
Grant Recipient:	Brookings County, SD 314 6th Avenue Brookings County, SD 57006-2057
GOTR:	Sam Hall, sam.hall@dot.gov , 804-556-4678
Grant #:	DTPH56-09-G-PHPT03
Project #:	326
Contact Info:	Robert Hill Phone: 605-696-8350 Fax: 605-696-8355 rhill@brookingscountysd.gov
Financial and Status Data	
Project Status:	Completed
Start Fiscal Year:	2009 (06/01/2009)
End Fiscal Year:	2010 (11/30/2009)
PHMSA \$\$ Budgeted:	\$12,000.00



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Thanks for your time and interest in pipeline safety!

Julie Galante
Senior Program Manager
Program Development
DOT/PHMSA

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

Questions?

