

WHO/WHERE: Brookings County, SD

Population: 33,897 persons, 85,000 cattle

Transmission Pipeline Operators

- Northern Natural Gas Company
- Basin Electric Power Cooperative

Distribution Pipeline Operator

Northwestern Energy

Demonstrate that PIPA can be implemented locally

WHAT: Develop a Pipeline Safety Appendix to the Brookings County Zoning Ordinance

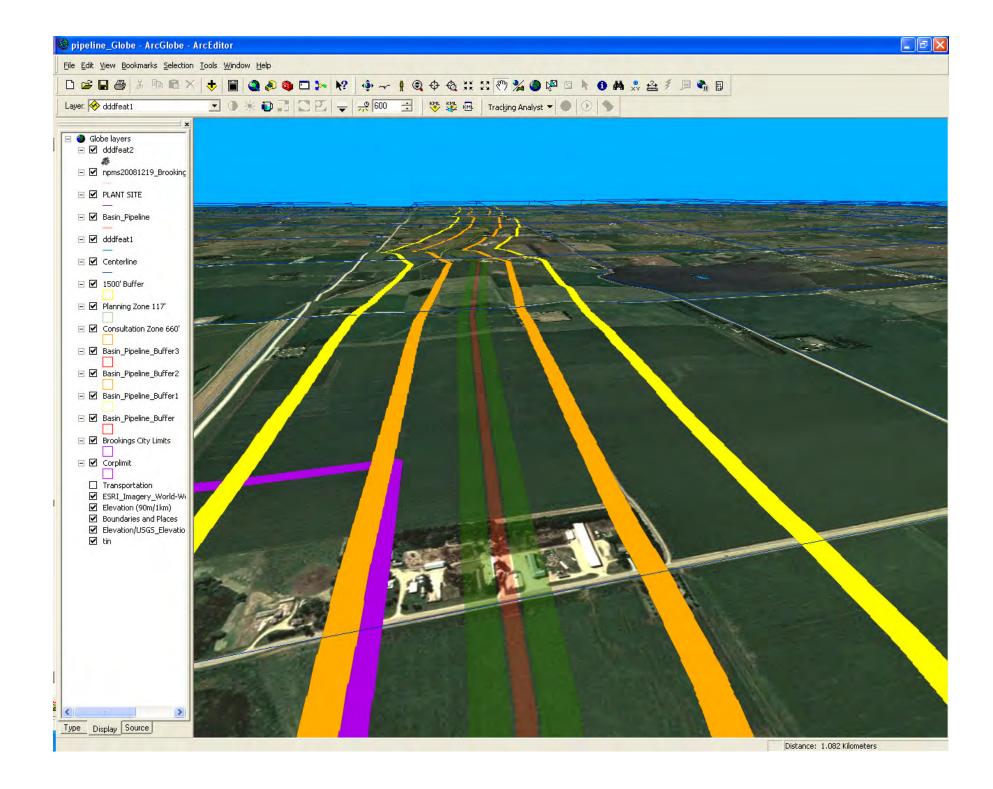
WHEN: June 1 – November 30, 2009

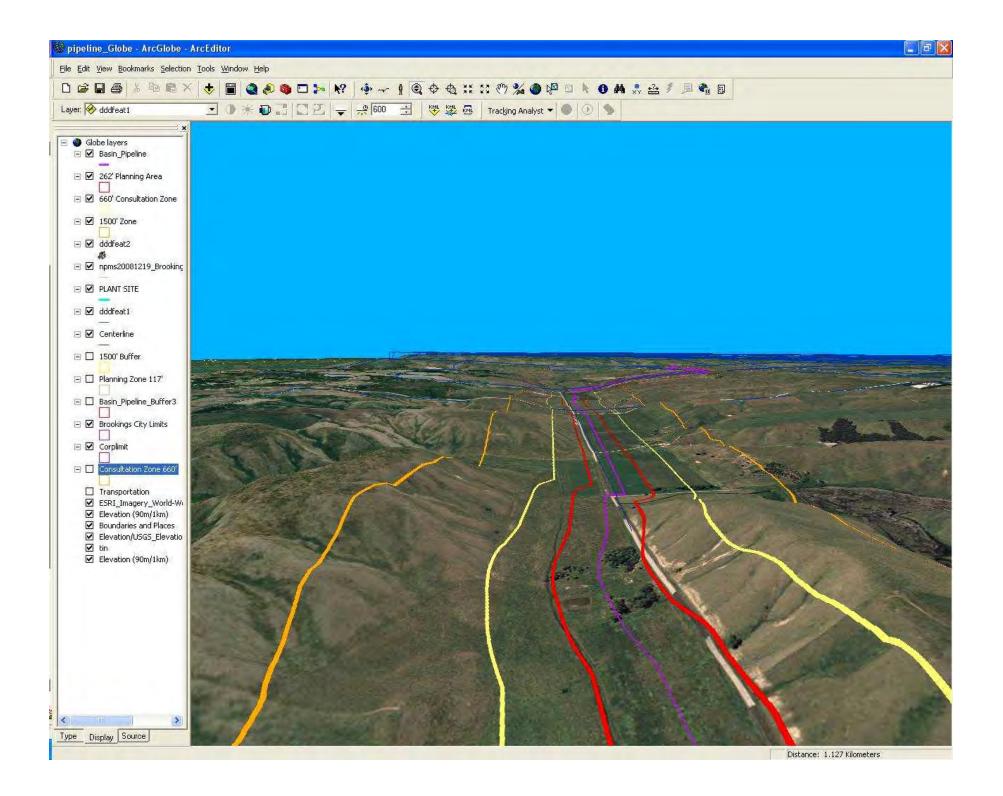
WHY: Public Safety and Awareness

BL04 and BL05

 BL04: Consultation Zone Ordinance Recommended

BL05: Define Consultation Zone

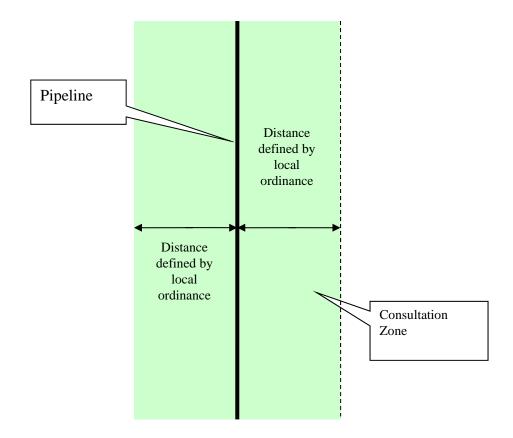




Consultation Zone

Absent site-specific information

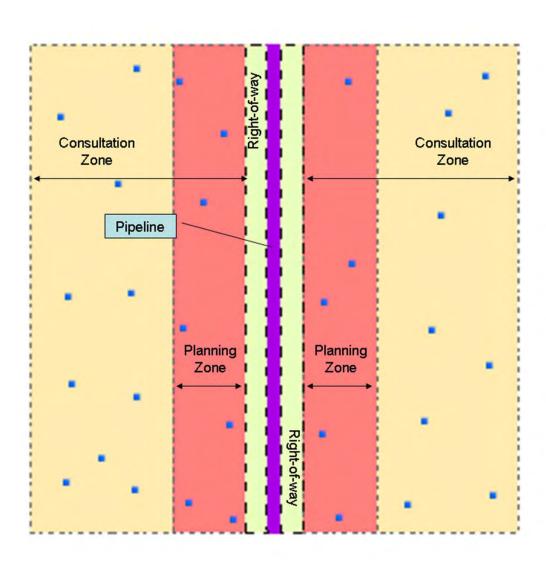
- 660-1000 feet Natural Gas Pipelines
- 1000-1500 Hazardous Liquid Pipelines

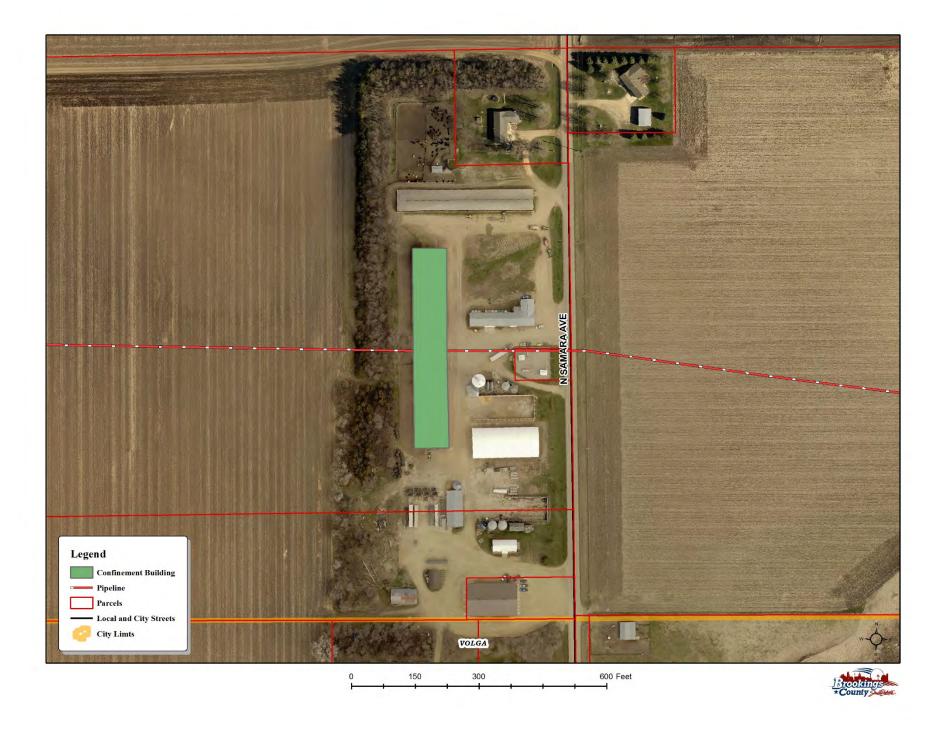


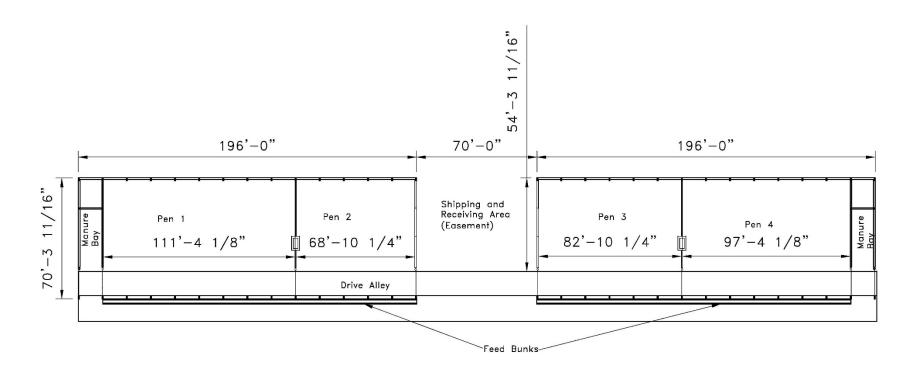
BL06

Local Governments Adopt a Planning Zone for Property Developers/Owners

Planning Zone





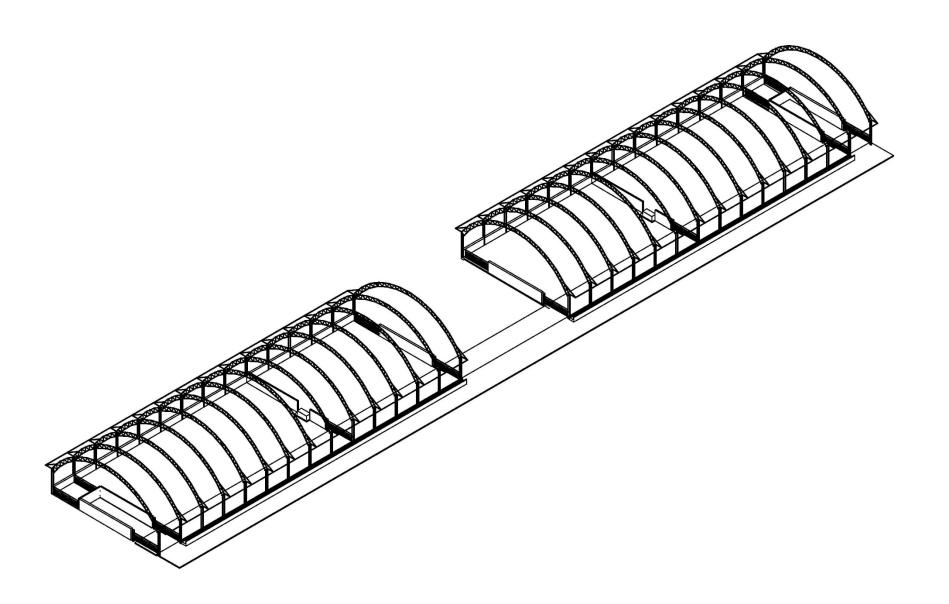


PLAN LAYOUT

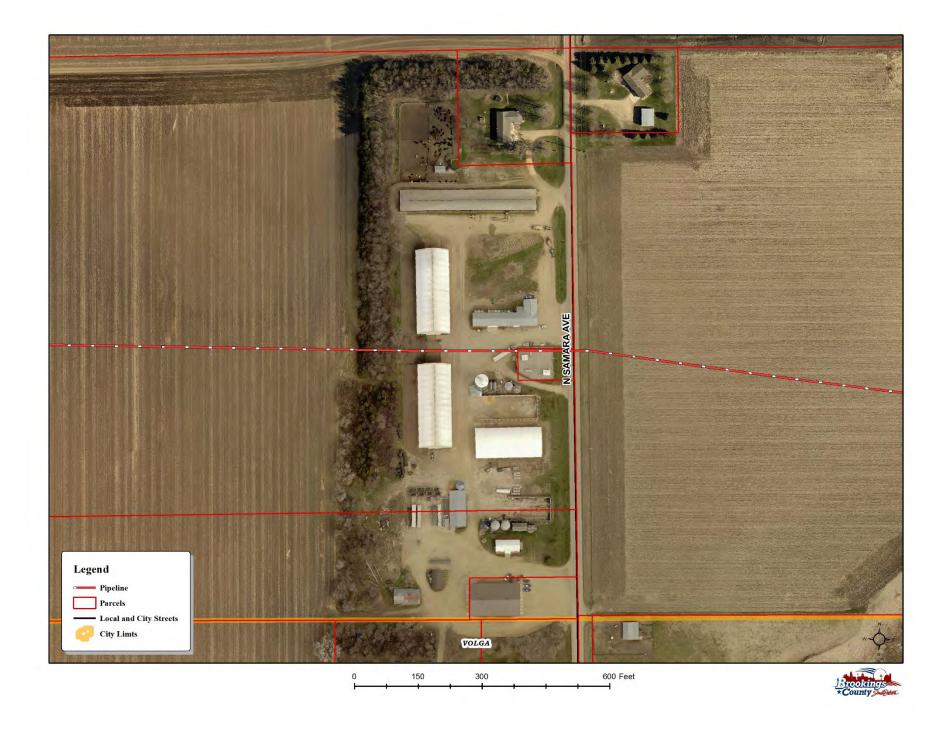
** DO NOT SCALE

** DO NOT CONSTRUCT FROM THIS DRAWING

** PRELIMINARY DRAWINGS ONLY



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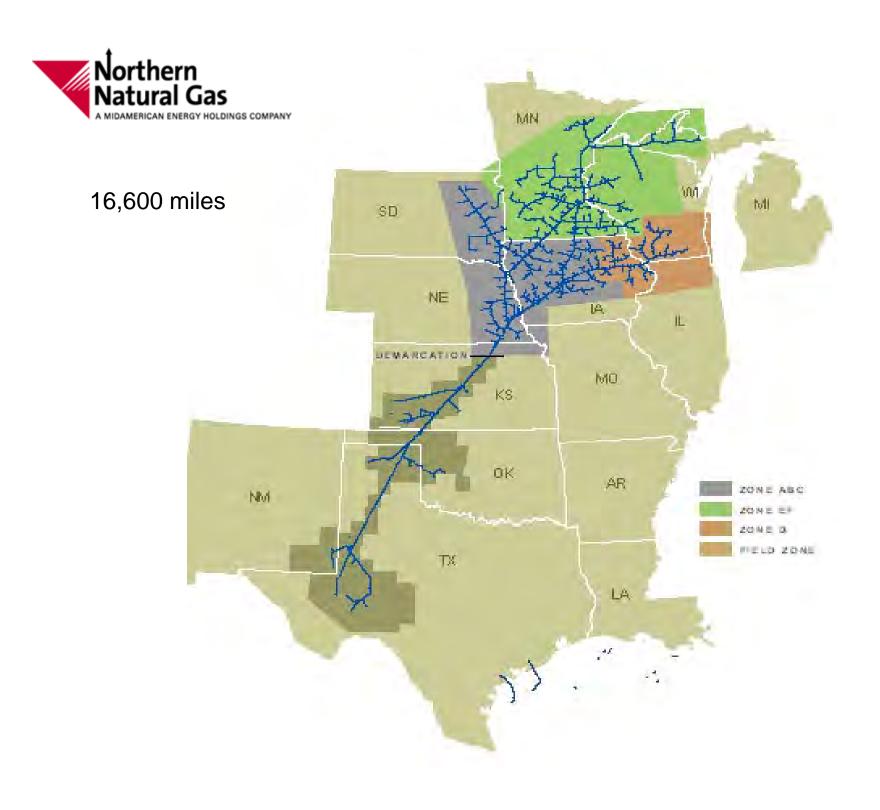


Key Players (2009)

Brookings County Commission	Brookings City/County Planning Commission
City of Volga	Fire Department
	Brookings and Volga
Dakota, Minnesota and Eastern Railroad (CP)	148 landowners
Basin Electric Power Coop	Northern Natural Gas Company

Key Players (2016)

Brookings County Commission	Brookings City/County Planning Commission
City of Brookings City of Volga	Fire Departments Arlington, Astoria, Brookings, Toronto, Volga and White
Rapid City, Pierre and Eastern Railroad (RCPE)	Approximately 30,000 citizens
Basin Electric Power Coop (BEPC)	Northern Natural Gas Company (NNGC)
	Northwestern Energy



Developers Handbook





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Facilities Deer Creek Station

Deer Creek Station

Located in Brookings County near Elkton, SD, Deer Creek Station is a 300-net megawatt capacity combined-cycle power plant. The \$405-million Deer Creek Station began commercial operation in 2012. There are 28 full-time employees at the plant.

The power plant uses natural gas delivered via the Northern Border Pipeline and a new 14-mile underground pipeline to the plant. The gas is purchased from Dakota Gasification Company.

Deer Creek is connected to the electric grid by less than one mile of new 345-kilovolt transmission line. The plant features two turbine-generator sets: one turbine fired by natural gas; the other is driven by steam. Both of the turbines are connected to generators.

Major equipment at the plant includes a combustion turbine fueled by natural gas; a heat recovery steam generator; a steam turbine driven by steam created from the heat of the gas turbine's exhaust; and an air-cooled condenser to cool and convert steam to water for re-use.

Deer Creek Station will operate about 12-16 hours per day, five days a week (more, if during peak load periods).



Type: Intermediate

Fuel: Natural Gas

Location: Elkton, SD

Output: 300 megawatts

Public Awareness Handout

How to recognize a gas pipeline leak

LOOK

For dead or dying vegetation on or near a pipeline rightof-way in an otherwise green area. Also, look for dirt being blown or appearing to be thrown in the air.

LISTEN

For a blowing or hissing sound.

Six things to do if you suspect a gas pipeline leak

- Turn off and abandon any equipment you may be operating.
- 2. Leave the area quickly.
- 3. Call BASIN ELECTRIC
 POWER COOPERATIVE immediately:

Call Toll Free: 1-800-339-5616 or Call Collect: 1-701-223-0441

- 4. Warn others of the situation.
- 5. Notify local authorities.
- DO NOT attempt to operate any of the valves on the pipeline.

In an emergency, or to report a suspected leak, please call:

Basin Electric Power Cooperative 1-701-223-0441 or toll free 1-800-339-5616



Know what's below. Call before you dig.

Before you dig, do your part:

- At least 48 hours before you dig, call your local one call center (1-800-781-7474) or (811).
- · Wait for the site to be marked.
- · Respect all markings.
- · Dig with care.

For general Information regarding Basin Electric's natural gas pipeline system, please call 605-397-2369 or 701-557-5895 or visit: www.npms.phmsa.dot.gov for a list of pipeline operators in your area.

Did you know?

- It is a federal crime to remove or deface a pipeline marker sign.
- Damage from excavating equipment is the number one cause of pipeline accidents.
- Federal law requires pipelines to participate in a one call system. SD One Call requires 48 hours notification before performing excavations (1-800-781-7474 or 811).



A MESSAGE FOR YOU ABOUT PIPELINE SAFETY



Living and working near natural gas pipelines







Brookings County Planning, Zoning And Drainage

601 4th St, Suite 105 Brookings, SD 57006 zoning@brookingscountysd.gov (605) 696-8350

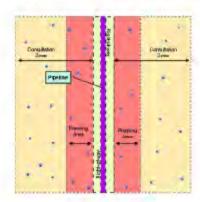


LAND USE WITHIN THE TRANSMISSION PIPELINE RISK REDUCTION OVERLAY DISTRICT

Brookings County, SD

Q: Why did the Permit Office hand me this brochure?

A: You have requested a building permit to excavate at a location that falls within the Transmission Pipeline_Risk Reduction Overlay District Consultation or Planning Area. This brochure summarizes your legal duties per Brookings County Ordinance Section 24.01: Land Use in Transmission Pipeline Overlay District which you must perform to obtain a building permit in this location.



Q: What is a Consultation Zone and what action is required?

A: A Consultation Zone is an area extending 680 feet from each side of an existing transmission pipeline. The permit office will notify the pipeline operator of the permit request to excavate in that zone as well as of the type and size of the planned building. The property developer/owner must initiate a consultation with the transmission pipeline operator as early as possible in the development planning process. The consultation serves to: (1) protect pipelines by promoting adequate consideration of the potential safety impacts of the development on the transmission pipeline; and (2) raise awareness of the potential safety impacts of the pipeline on the development.

Q: What is a Planning Area and what action is required?

- A: The size of the Planning Area depends on the specific characteristics of the pipeline:
- Basin Electric Power Cooperative Pipeline:
- Northern Natural Gas Pipeline:

262' with a 60' easement 117' with a 70' easement The purpose of the Consultation Zone is to enforce the requirement for communication between property developers/owners within Brookings County and transmission pipeline operators when new development is planned within this zone.

A detailed site plan indicating the correct location of the existing pipeline is required. Hand-rendered drawings suffice. Contact the South Dakota One Call and have the pipeline located and marked. Confirm or correct the actual location of the pipeline on the site drawing and provide the drawing to the permit office. Developer/owner must contact the pipeline operator and determine if the actual excavation will occur inside their right-of-way.

- If the excavation will occur <u>outside</u> the pipeline operator's right-of-way, a building permit may be issued, and the permit office will notify the pipeline operator that a permit has been issued.
- o. If the excavation will occur within the right-of-way, the developer /owner must obtain a written and signed encroachment agreement from the pipeline operator and submit it to the permit issuing office before the office can issue a permit. The office will notify the pipeline operator that the permit has been issued and will note the exact location of the approved construction or excavation.

Q: How do I contact the operators?

A: The operators can be contacted at:

- The Basin Electric Power Cooperative Pipeline Basin Electric Power Cooperative C/O: Director of Right-of-Way 1717 East Interstate Avenue Bismarck, ND 24hr. Emergency #: 1-800-339-5616
- The Northern Natural Gas Company Pipeline Northern Natural Gas Company C/O: Director of Right-of-Way 1111 South 103rd Street Omaha, NE. 68124 24hr. Emergency #. 1-888-367-6671

Q: How and when do I call the South Dakota One Call center?

A: Call 1-800-781-7474 or 811at least 48 hours before any excavating to have the pipeline located and marked.

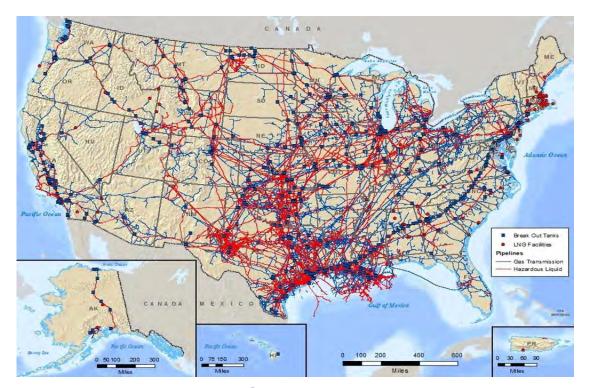
Public Official Stakeholders Emergency Response Stakeholders

Local Emergency Planning Committees

- Good opportunity to network with local first responder leadership
- Elected officials are an integral part of this organization
- Different funding mechanism

Local Emergency Manager

- Required to do exercises on a yearly basis
- Exercises are done to FEMA requirements
- They can be your friend or



Hazard Mitigation Planning:

Practices for Land Use Planning and **Development near Pipelines**

2015





U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration





Thank You

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