



Pipeline and Informed Planning Alliance (PIPA)

Washington, D.C.
January 15 -17, 2008

Breakout Session for Supplemental Enhancements

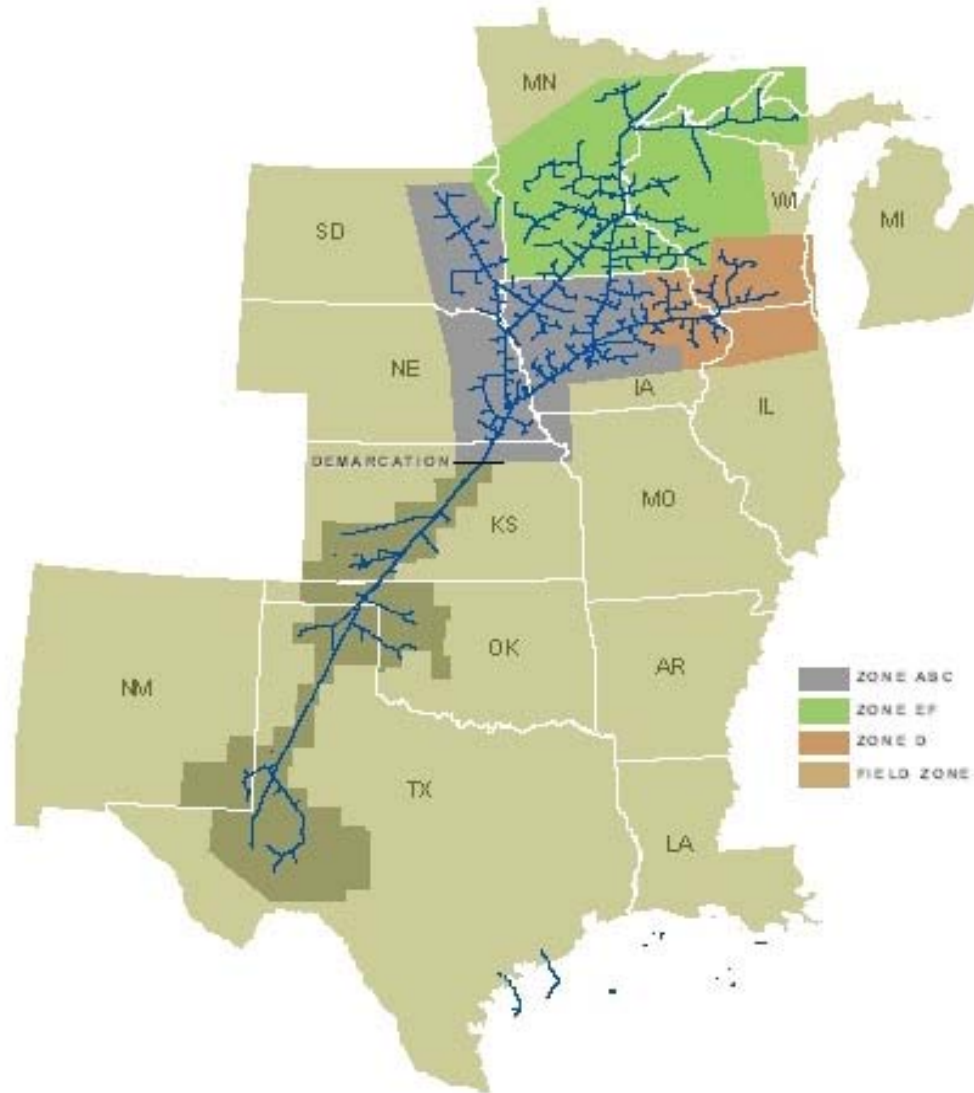
Presenter: Tom Correll
Director of Pipeline Safety and Integrity

Northern Natural Gas Overview

Northern's Pipeline System:

- 1. Approximately 15,700 miles of high pressure, natural gas transmission pipeline operating in portions of eleven Midwestern states.*
- 2. Steel pipe sizes range from 2" to 36" in diameter*
- 3. Maximum operating pressure ranges from 50 to 1,600 psig*
- 4. The system is divided into four operating regions*
- 5. Each region is managed by one director and several operations managers*

Northern's Pipeline System



API RP 1162

1. *American Petroleum Institute Recommended Practice 1162*
 - a. *Commonly referred to as API RP 1162 or simply 1162.*
 - b. *A representative group of pipeline operators published the first edition of 1162 in December, 2003 as voluntary recommended public awareness practices for pipeline operators.*
 - c. *Over time, the regulatory agency for pipelines, Pipeline and Hazardous Materials Safety Administration (PHMSA) incorporated 1162 into the regulations and asked all pipeline operators to submit their plan between August 8, and October 8, 2006.*
 - d. *PHMSA hired a clearinghouse to perform the initial review of over 3,500 plans.*

1162 (continued)

1. *American Petroleum Institute Recommended Practice 1162*

- e. *In July, 2007, the clearinghouse review results indicated the need for Northern to clarify the supplemental enhancement section.*

- e. *Later that same month, Northern held a meeting with the local PHMSA representative to discuss ideas, options, expectations and deadlines.*

- f. *Northern submitted the adjustments to PHMSA and received approval in October to move forward with a new supplemental enhancement table which will be discussed in a moment.*

Public Awareness Plan Overview

In the simplest terms, Northern's public awareness plan can be divided into two main components that meets or exceeds the requirements of 1162. One, mailing brochures and two, personal contact by field employees or their representatives.

1. The brochure mailing process administered by headquarters in Omaha:

- a. *The brochures are sent to four major stakeholder groups, Public Officials, Excavators, Emergency Responders and the Affected Public, those that live and work along the pipeline*
- b. *1162 lists the minimum corridor on either side of the pipeline for the area to consider when contacting each stakeholder*
- c. *Each year Northern mails out approximately 700,000 brochures that contain messages on safety, call before you dig, how to recognize and report an unusual condition*

Public Awareness Plan Overview (continued)

2. Partial list of examples of personal contact options conducted by field employees:

- a. Meetings held by the local one-call center*
- b. Meetings with public officials and emergency responders*
- c. Meetings with Natural Resource Conservation Services (NRCS), i.e. terracing projects in farm land.*
- d. Meetings conducted by pipeline associations*
- e. Fire training with local fire fighters*
- f. Meetings with landowners and tenants*
- g. Common Ground Alliance regional partnership meetings*
- h. School programs*

Supplemental Enhancement Table

| Factors | Action Level Examples | Enhancement Response Options | | | | | | | |
|--|--|---|------------------------------|----------------|---------------------|------------------------|--------------|------------------|-------------|
| | | Expanded Corridor For Brochure Delivery | Brochure Message Enhancement | Media Campaign | Additional Mailings | Increased Surveillance | Door Hangers | Personal Contact | Extra Signs |
| Land Development | New Construction | | | | | | | | |
| Farming Activity Deeper Than Typical Farming Practices | Discovery of Terracing, Waterways, Drain tile. | | | | | | | | |
| Third Party Damages | Incident Increase | | | | | | | | |

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|------------------------------|---|---|------------------------------|----------------|---------------------|------------------------|--------------|------------------|-------------|
| | | Expanded Corridor For Brochure Delivery | Brochure Message Enhancement | Media Campaign | Additional Mailings | Increased Surveillance | Door Hangers | Personal Contact | Extra Signs |
| Potential Hazards | Increased Excavation, Unknown or Unusual Conditions | | | | | | | | |
| High Consequence Areas (HCA) | Change In Status | | | | | | | | |
| Population Density | Change In Class Location | | | | | | | | |

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|-------------------------------------|--|---|------------------------------|----------------|---------------------|------------------------|--------------|------------------|-------------|
| | | Expanded Corridor For Brochure Delivery | Brochure Message Enhancement | Media Campaign | Additional Mailings | Increased Surveillance | Door Hangers | Personal Contact | Extra Signs |
| Environmental Considerations | Changes Caused By Floods, Tornadoes, Etc | | | | | | | | |
| Pipeline History In A Specific Area | Analysis That Shows Damage Concentration | | | | | | | | |
| Specific Local Situations | State, City, Or Local Ordinances | | | | | | | | |

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| | | Expanded Corridor For Brochure Delivery | Brochure Message Enhancement | Media Campaign | Additional Mailings | Increased Surveillance | Door Hangers | Personal Contact | Extra Signs |
| Regulatory Requirements | Change In Existing Or New Requirements | | | | | | | | |
| Data From Previous Public Awareness Evaluations | Results Of Audits, One-Call, Reports, Surveys | | | | | | | | |
| Pigging Data Evaluation | Previously Unknown Areas of Damage | | | | | | | | |

Supplemental Enhancement Table

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|----------------------------------|-------------------------------|---|------------------------------|----------------|---------------------|------------------------|--------------|------------------|-------------|
| | | Expanded Corridor For Brochure Delivery | Brochure Message Enhancement | Media Campaign | Additional Mailings | Increased Surveillance | Door Hangers | Personal Contact | Extra Signs |
| Soil Erosion Data | Abnormal Erosion Rates | | | | | | | | |
| Shallow and Exposed Pipe Program | Upon Discovery | | | | | | | | |
| School Education Program | Discovery Of School In An HCA | | | | | | | | |

Supplemental Enhancement Process

- 1. All operations managers take part in a review of their public awareness activity. The review is completed at least annually or upon discovery of a new or changed condition*
- 2. The review helps to document actions taken, new conditions discovered, suggestions for improvement and a discussion of each of the supplemental enhancement factors*
- 3. If a supplemental enhancement factor and an action level are taking place in the operations manager's area of responsibility they report current response actions or determine if additional actions are required*
- 4. Their responses are marked with an "X" in the appropriate Enhancement Response Option column*

Example – Land Development

- 1. Operations managers understand that whenever a factor is discovered, action must be taken*
- 2. Case in point, during a one-call response an employee is alerted to the beginning phases of a new building that will be constructed near Northern's pipeline*
- 3. The operations manager works with the field employees to determine the next steps*
- 4. The enhancement response options provide the template for action*
- 5. For example, the operations manager will more than likely decide that several boxes need to be checked. Which translates to several actions that will take place*
- 6. In this case, it makes good sense to include increased surveillance activity, personal contact and extra signs*
- 7. Northern's overall program already includes an expanded corridor for public awareness brochure delivery so this box could be checked also*

Question and Answer Session

What questions do you have?