



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



Public Awareness Program For Pipeline Operators



Dakota Safety Summit, Bismarck, ND
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Overview

- PHMSA Mission
- Public Awareness Program
- API RP 1162, 1st Edition
- Clearinghouse
- Inspection
- Effectiveness Evaluations
- RP 1162, 2nd Edition
- PIPA
- Public Awareness Workshop



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PHMSA Mission

“To ensure the safe, reliable, and environmentally sound operation of the Nation’s pipeline transportation system.”

Office of
Pipeline Safety



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Public Awareness Program Objectives

- Promote the use of One-Call notification system prior to excavation
- Educate stakeholders about:
 - Possible hazards associated with unintended releases from pipeline facility
 - Physical indications of a pipeline release
 - Public safety measures in the event of a pipeline release
 - Procedures to reporting a pipeline release





Significant Incidents Caused by Excavation Damage

(2000 thru 2009)

- Gas Distribution Pipelines
 - 32% of Significant Incidents
 - 19% of Fatalities and 29% Injuries
- Gas Transmission Pipelines
 - 14% of Significant Incidents
 - 38% of Fatalities and 21% Injuries
- Liquid Pipelines
 - 16% of Significant Incidents
 - 32% of Fatalities and 22% Injuries



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Background

- Pipeline safety regulations long required:
 - Damage Prevention Awareness for excavators (192.614 and 195.442)
 - Emergency Plans for Fire, Police, and Public Officials (192.615 and 195.402)
 - Public Education (192.616 and 195.440)
- API RP 1162 Committee formed in January 2002
- 1st Edition of API RP 1162 published in December 2003
- Operator Public Awareness workshops held in 2003 and 2005





Background

- Final Rule in May 2005 (Docket 15852)
 - Incorporated by reference the guidelines in API RP 1162, Public Awareness Programs for Pipeline Operators, 1st Edition
 - 192.616 for Natural Gas Pipelines
 - 195.440 for Hazardous Liquids Pipelines
- Advisory Bulletin in June 2005 that required operators to complete written program by June 20, 2006
- In 2005, Congress directed DOT to create a Clearinghouse for the initial review of these programs
- Amendment effective January 14, 2008 relaxed rules for master meter and some LPG operators
- Operators must conduct an evaluation of effectiveness by June 2010





RP 1162

- 49 CFR 192.616 and 49 CFR 195.440 require operators to:
 - Follow the general program recommendations, including baseline and supplemental requirements of RP 1162 and assess the unique attributes and characteristics of the operator's pipeline and facilities.
 - Unless written program justifies why compliance with RP 1162 is not practicable and not necessary for safety
 - Operators must also address specific educational requirements included in both regulations





RP 1162 (Supplemental Program)

- When conditions along the pipeline suggest a more intensive effort is needed:
 - Potential hazards
 - High Consequence Areas
 - Land development activity
 - Third-party damage incidents
 - Environmental considerations
 - Pipeline history
 - Results from previous evaluations
 - Regulatory requirements
- Complete list of considerations in Section 6.2 of RP 1162





RP 1162 (Supplemental Program)

- Forms of Supplemental Enhancements
 - Increased frequency of communications
 - Enhanced Message Content and
 - Additional Delivery Method and/or Media
 - Widening Stakeholder Audience coverage area beyond Baseline Program
- Written Program must describe the process for determining whether supplemental enhancements are warranted
- Implementation records must document areas along the pipeline route where supplemental elements have been implemented





Clearinghouse

- In 2005, Congress directed DOT to create a Clearinghouse for the initial review of these programs
- Advisory Bulletin published in June 2006, requesting submission of Written Programs by October 2006
- Draft review criteria for programs jointly established and adopted by OPS & NAPSRS
- Submittal information stored in Public Awareness Program Database (PAPD)
- Addressed completeness of written program and minimal adequacy





Clearinghouse

- Aspects of Written Program that differed from recommendations in RP 1162 recorded as a deviation in the database
- Supplemental elements implemented recorded
- Jurisdictional agencies received summary of deviations and supplementals implemented
- OPS CATS Managers worked with Operators to resolve deviations
- State pipeline safety offices determined actions to take for their jurisdictional operators with respect to deviations





Inspection

- Inspections
 - Standard inspection
 - HQ inspection
 - Integrated inspection
 - As requested/special inspection
- Looking for compliance with regulations in 49 CFR 192 (Gas) and 49 CFR 195 (Liquid), as well as following API RP 1162 (1st Edition) – deviations justified
- States are conducting inspections for their operators
- Focus was on:
 - Does the plan exist
 - Is it tailored to the specific pipeline
 - Is the program being implemented
 - Is the proper documentation available





Effectiveness Evaluations

- Regulations currently require operators to perform a public awareness program self-evaluation of effectiveness at four-year intervals, June 2010
- State and Federal inspection programs will be expanded to include review of operator effectiveness evaluations, beginning second half of 2010
- Evaluation of effectiveness focus will be:
 - Did the operator implement based on written program?
 - Did operators evaluate program for effectiveness?
 - What evaluation methods/processes used? Results documented?
 - What knowledge was gained? Documented? Incorporated in program?





RP 1162 2nd Edition

- Focus on clarification and streamlining
- Essential elements of 1st Edition retained
- Revision focus:
 - Align baseline messages with core safety messages
 - Requires formal process for considering enhancements
 - Non-safety messages shifted to enhanced category
 - Pipeline purpose and reliability
 - How to get additional information
 - Availability of a list of pipeline operators through NPMS
 - Increased discretion for baseline delivery methods; identifies potentially inappropriate methods
 - Provides guidance





RP 1162 2nd Edition

- API's Operations and Technical Committee plan to have revision consensus and acceptance by (tentatively Spring 2010)
- Finalize 2nd Edition (tentatively Summer 2010)
- API members and others in industry may voluntarily adopt
- Operator is still required to comply with the version currently referenced in the regulation
- If PHMSA determines that the revision is appropriate to incorporate into regulation, may incorporate into rule at later date





Pipelines and Informed Planning Alliance (PIPA)

- PIPA recommended practices address:
 - Need to educate planning and development stakeholders on transmission pipelines and associated risks
 - Enabling these stakeholders to make risk-informed decisions about development along transmission pipeline ROW
- A key finding is that communication between local planners and developers, local governments and transmission pipeline operators must be encouraged





PIPA Task Teams

- Recommended practices were developed by three task teams:
 - Protecting Communities – Recommended practices for land use planning and development on lands **adjacent to** the transmission pipeline ROW
 - Protecting Transmission Pipelines – Recommended practices relating to land use and development activities **on** the pipeline ROW
 - Communication – Recommended practices for communicating information among pipeline safety stakeholders
- PIPA recommended practices were developed using a consensus approach





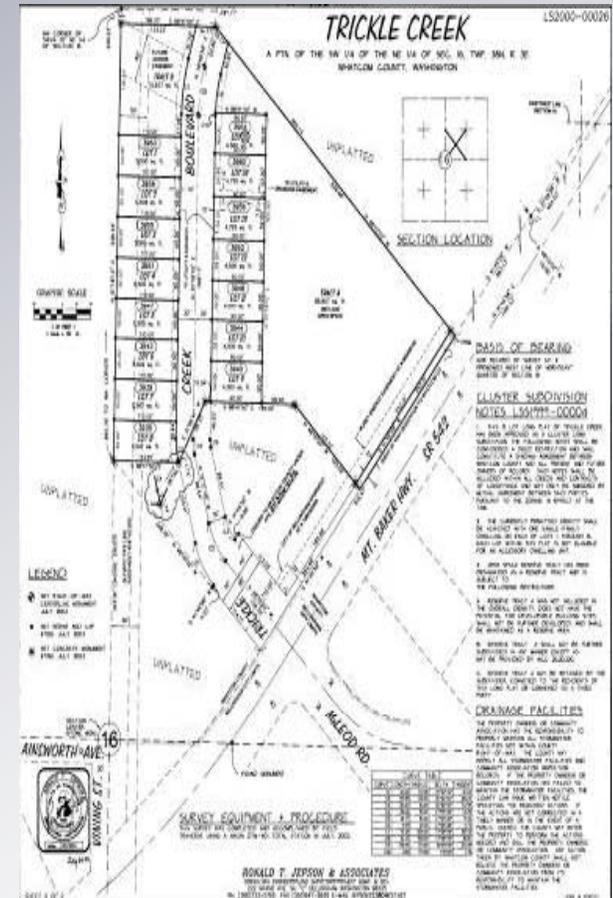
PIPA Report

Recommended Practice Scenarios:

- Baseline (BL)
- New Development (ND)

Stakeholder Audiences

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



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PIPA Report

- Publish as a web-based document
- Printable – entire report or prepared reports of recommended practices, sorted by stakeholder audience taking action
 - Local Government
 - Property Developer/Owner
 - Pipeline Operator
 - Real Estate Commission
- Each recommended practice will have a brief Practice Statement and a Practice Description





PIPA Status

- Consensus reached on majority of recommended practices
- Consultation Zone and Planning Area recommendations near final
- Supplemental paper being prepared comparing transmission pipeline risks with other hazardous materials transportation modes (highway, railway)
- Draft report will be circulated for final review by all PIPA participants when it is prepared
- PIPA Report hopefully 2nd – 3rd Quarter 2010
- Stakeholders are encouraged to begin consideration of the recommended practices as soon as they are published





Public Awareness Workshop

- PHMSA and NAPSR Co-Sponsoring a Public Awareness 1- Day Workshop
 - June 2010, Location TBD
 - Stakeholders from various industries will share lessons learned
 - Review implementation progress, identify what is working and not working, and jointly identify the key components of a successful public awareness program
- PHMSA will use results from the workshop and effectiveness inspections to further develop the public awareness program





Proposed PA Workshop Agenda

- Chronology of Public Awareness – PHMSA/State Partners
- PHMSA observations based on Clearinghouse
- NAPSAR, (update on state public awareness activities, evaluation plans)
- Public Perspective
- Pipeline Trade Association Observations (Industry-wide challenges and successes with current regulations, PHMSA transparency and timing associated with effectiveness evaluations)
- Lessons Learned Panel Discussion, Pipeline Operators (What's working, what's not working from operator experience)
- Group Discussion: Identifying key components of successful public awareness programs
- PHMSA/State Partner timeline for conducting effectiveness evaluations





Review

- Public Awareness
- API RP 1162, 1st Edition
- Inspection
- Effectiveness Evaluations
- RP 1162, 2nd Edition
- PIPA
- Public Awareness Workshop





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Thanks for your time and consideration

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Questions?



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