



U. S. Department of Transportation

Pipeline and Hazardous Materials
Safety Administration

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Kentucky Pipeline Safety Seminar

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Joe Mataich

U.S. DOT/PHMSA Southern Region

Why Public Awareness?

It's the Law!

Pipeline Safety Improvement Act (PSIA) 2002

requires owners or operators of a gas or hazardous liquid pipeline facility to carry out a continuing program to educate the public on:

- 1. Use of a one-call notification system prior to Excavation;**
- 2. Possible hazards associated with unintended releases from the pipeline facility;**
- 3. Physical indications that such a release may have occurred;**
- 4. Steps that should be taken for public safety in the event of a pipeline release; and**
- 5. Procedures to report such an event.**



Why Public Awareness?

- Reduces excavation damages
- Reduces injuries & property damage
 - Enhanced Public Safety
- Educates stakeholders about the hazards of pipeline releases
- Educates stakeholders about recognizing releases
- Educates stakeholders about what to do in the event of a release



Why Public Awareness?

Significant Incidents caused by
Excavation Damage (2002 thru 2006)



- Gas Distribution Pipelines
 - 37% of Significant Incidents
 - 28% of Fatalities and 32% Injuries
- Gas Transmission Pipelines
 - 13% of Significant Incidents
 - 80% of Fatalities and 23% Injuries
- Liquid Pipelines
 - 14% of Significant Incidents
 - 63% of Fatalities and 16% Injuries

History of *Public Awareness Regs*



History of *Public Awareness Regs*

1970

Part 192 (Original – Aug 19, 1970)

§192.615 Emergency Plans

(d) - Establish an educational program to enable customers and the general public to recognize and report a gas emergency to the appropriate officials.

History of *Public Awareness Regs*

1976

Amendment 192-24 (effective Oct 1, 1976)

§192.615(d) - Each operator shall establish a continuing educational program to enable customers, the public, appropriate government organizations, and persons engaged in excavation related activities to recognize a gas pipeline emergency for the purpose of reporting it to the operator or the appropriate public officials. The program and the media used must be as comprehensive as necessary to reach all areas in which the operator transports gas. The program must be conducted in English and in other languages commonly understood by a significant number and concentration of the non-English speaking population in the operator's area.

History of *Public Awareness Regs*

1995 & 2005

Amendment 192-71 (eff. Feb 11, 1995)

§192.615(d) Emergency Plans -> §192.616 Public Education

Amendment 192-99 (eff. June 20, 2005)

§192.616 Public Education → §192.616 Public Awareness

- More robust language in the Code
- Incorporates API RP 1162

Public Awareness Programs for Pipeline Operators
(1st Ed., Dec. 2003)

History of *Public Awareness Regs*

2007

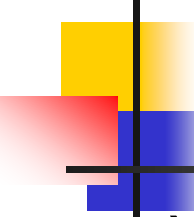
Amendment (no number) (effective Jan 14, 2008)

§192.616 Public Awareness

- Relaxed rules for MM and some LPG
- Exemption of Written Plan in accordance with API RP1162
- Requires Written Procedure by June 13, 2008

What Are the Rules?

§192.616 Public Awareness

- 
- a) Written continuing public education program that follows the guidance provided in the API RP-1162.
 - b) Must follow general program recommendations of API RP 1162 and **assess the unique attributes and characteristics** of the operator's pipeline and facilities.
 - c) Must follow general program recommendations, including **baseline and supplemental requirements of API RP 1162**, unless operator provides written justification why compliance with all or certain provisions of the recommended practice is not practicable and not necessary for safety.



Public Awareness Regulations

§192.616 Public Awareness

- d) Program must specifically include provisions to educate the public, appropriate government organizations, and persons engaged in excavation related activities on:
- (1) Use of a one-call notification system prior to excavation and other damage prevention activities;
 - (2) Possible hazards associated with unintended releases from a gas pipeline facility;
 - (3) Physical indications that such a release may have occurred;
 - (4) Steps that should be taken for public safety in the event of a gas pipeline release; and
 - (5) Procedures for reporting such an event.



Public Awareness Regulations

§192.616 Public Awareness

- e) Program must include activities to advise affected municipalities, school districts, businesses, and residents of pipeline facility locations.
- f) Program and the media used must be as comprehensive as necessary to reach all areas in which the operator transports gas.
- g) Program must be conducted in English and in other languages commonly understood by a significant number and concentration of the non-English speaking population in the operator's area.
- h) Operators in existence on June 20, 2005, must have completed their written programs no later than June 20, 2006.
- i) Program documentation and evaluation results must be available for periodic review by appropriate regulatory agencies.



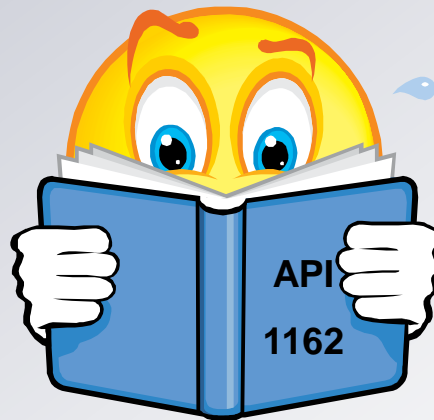
Public Awareness Regulations

§192.616 Public Awareness

- j) Must provide Customers Public Awareness Message twice annually (MMO's)
- Description of the purpose and reliability of the pipeline
 - Overview of the hazards of the pipeline and preventative measures used
 - Information about damage prevention
 - How to recognize and respond to a leak
 - How to get additional information



American Petroleum Institute Recommended Practice API RP-1162





API RP 1162

Purpose:

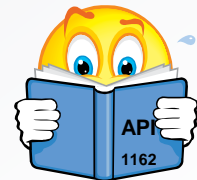
Pipeline operators use API RP 1162 to develop and actively manage their Public Awareness Programs.

Goal:

It establishes guidelines for operators to develop, implement, and evaluate their Public Awareness Programs in an effort to raise the effectiveness of Public Awareness Programs throughout the pipeline industry.

Guidance:

- ✓ Intra- and interstate hazardous liquid pipelines;
- ✓ Intra- and interstate natural gas transmission pipelines;
- ✓ Local distribution pipelines; and
- ✓ Gathering pipelines.





API RP 1162

Program Development:

- ✓ Provides recommended elements of a **Baseline** Program
- ✓ Provides considerations to determine when and how to enhance (**Supplement**) the baseline program.

Target Audience:

- ✓ Affected public (landowners, residents and visitors);
 - ✓ Emergency officials;
 - ✓ Local public officials; and
 - ✓ Excavators.
-
-



API RP 1162



Message Content (LDC'S):

- Pipeline Purpose and Reliability
 - Hazard Awareness and Prevention Measures
 - Damage Prevention
 - Leak Recognition and Response
 - Emergency Preparedness Communications (Emergency & Public Officials)
 - One Call requirements (Excavators)
 - How to get additional information
-
-



API RP 1162

Message Delivery Methods and/or Media:

- ✓ **Print Materials (brochures, flyers, bill stuffers, letters, maps)**
- ✓ **Personal Contact (door-to-door, calls, open houses)**
- ✓ **Electronic Communications (videos, CDs, email)**
- ✓ **Mass Media Communications (PSAs, newspapers, advertising)**
- ✓ **Specialty Advertising Materials**
- ✓ **Informational or Educational Items**
- ✓ **Pipeline Markers**
- ✓ **One-Call Center Outreach**
- ✓ **Operator Websites**





API RP 1162

Self Assessment of Implementation (Annually)

- 1) Internal Review
 - 2) Third-Party Assessment
 - 3) Regulatory Inspection (may not be acceptable to regulatory agencies)
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API RP 1162

Pre-Test Effectiveness of Materials (upon design or major changes in PA materials/messages)

- **Focus Groups**
 - **In-house or,**
 - **External participants**





API RP 1162

Program Evaluation (at least every 4 years)

- ✓ Assessment of Program Implementation – As Planned?
- ✓ Measure of Program Effectiveness
- ✓ Establish Information on Implementing Improvements!

Don't waive the flag quite yet -
Program Evaluations are due
June 2010.





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Thank You



Questions

joseph.mataich@dot.gov

404-832-1159