



Interstate Natural Gas Association of America
INGAA Action Plan
to Build Confidence in Pipeline Safety

Pipeline Safety Trust Conference – Salt Lake City, Utah

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The catastrophic events

- 1937, school explosion, killed 293 students and teachers → Odorant
- 1965, pipeline explosion killed 17 in Louisiana → Office of Pipeline Safety in 1970
- 1999 and 2000, Bellingham and Carlsbad → Integrity Management Rule
- In 2010, San Bruno ...
→ *Apply IMP Everywhere* → *Zero Failures*



March 18, 1937
New London, Texas

Williams catastrophic events

September 14, 2008
Appomattox, Virginia



December 3, 2011
Sweet Water, Alabama



Guiding Principles of Pipeline Safety

- **Our goal is zero incidents** - a perfect record of safety and reliability for the national pipeline system. *We will work every day toward this goal.*
- **We are committed to safety culture** as a critical dimension to continuously improve our industry's performance.
- **We will be relentless in our pursuit of improving** by learning from the past and anticipating the future.
- **We are committed to applying integrity management principles on a system-wide basis.**
- **We will engage our stakeholders** - from the local community to the national level - so they understand and can participate in reducing risk.



INGAA Members 9 Step Action Plan



- Apply Risk Management beyond High Consequence Areas (HCAs)
- Raise the Standards for Corrosion Anomaly Management
- Demonstrate Fitness for Service on Pre-Regulation Pipelines
- Shorten Pipeline Isolation and Response Time to 1 Hour
- Improve Integrity Management Communication and Data
- Implement the Pipeline and Informed Planning Alliance (PIPA) Guidance
- Evaluate, Refine and Improve Threat Assessment and Mitigation
- Foster a Culture of Continuous Improvement
- Provide Forums for Stakeholder Engagement and Emergency Officials

IMCI

IMCI Action Teams



1. Stakeholder Outreach	Two-way communication with meaningful performance measures. Actively promote PIPA (Pipeline and Informed Planning Alliance)
2. Risk Management	Apply risk management concepts beyond High Consequence Areas (HCAs) with comprehensive threat analysis
3. Integrity Management Tools	Enhance corrosion control methods and anomaly management protocols
4. Pipelines Built Prior to PHMSA Regulations	Develop inventory and protocols to manage integrity
5. Technology Development & Deployment	<ul style="list-style-type: none">• Improve crack-detection tools & management• Work with PHMSA to produce a R&D road map, and• Define assessment alternatives for non-piggable lines
6. Management Systems	Apply safety culture principles to drive learning across the industry
7. Emergency Preparedness Response	Update isolation valves automation and enhance public awareness
8. New Construction	Fully implement the 2010/2011 INGAA Foundation Pipe and Construction Action Plans
9. Storage	Clarify regulatory oversight for storage facilities

What is Needed?

Holistic Approach to Pipeline Safety

- Address NTSB's concerns, set a path and prioritize actions to eventually achieve zero failures.
- The Pipeline Safety Act has been reauthorized. Help PHMSA craft rules that achieve these goals in a practical way that maintains delivery of this vital fuel to our cities.
- Stronger state and federal excavation damage prevention measures
- Industry
 - R&D
 - Share lessons learned
 - Infuse best practices
 - Invest in next generation of workers and safety tools
 - Make safety culture an integral part of the pipeline industry day in and day out

Effective pipeline safety is a shared responsibility - and requires active engagement between operators, the government and the public

Summary

- Relentless improvement gets us to the goal of zero
- Risk management is our central strategy
- Our success depends upon active engagement of all stakeholders
- We are ...
 - Listening to the public
 - Working with all stakeholders
 - Making our pipelines safer