

INGAA Foundation Spring Meeting

Pipeline Safety Update

April 5, 2013

Pete Kirsch CenterPoint Energy



INGZÁ

Guiding Principles of Pipeline Safety

- Our goal is ZERO incidents
- We are committed to safety culture
- We will be relentless in our pursuit of improving
- We are committed to applying integrity management principles on a system-wide basis



We will engage our stakeholders



INGAA Members 9 Step Action Plan

- 1. Apply Risk Management Beyond High Consequence Areas (HCAs)
- 2. Raise the Standards for Corrosion Anomaly Management
- 3. Demonstrate Fitness for Service on Pre-Regulation Pipelines
- 4. Shorten Pipeline Isolation & Response Time to 1 Hour in Populated Areas
- 5. Improve Integrity Management Communication and Data
- 6. Implement the Pipeline and Informed Planning Alliance (PIPA) Guidance
- 7. Evaluate, Refine and Improve Threat Assessment and Mitigation
- 8. Implement Management Systems Across INGAA Members
- 9. Provide Forums for Stakeholder Engagement and Emergency Officials



Apply Risk Management Beyond High Consequence Areas (HCAs)

Apply Risk Management beyond HCAs



IM expansion considered in a variety of venues:

- NTSB San Bruno recommendations
- PHMSA Advance Notice of Public Rulemaking
- Pipeline Safety Act
- Lessons learned

Apply Risk Management beyond HCAs



Estimated statistics based on survey results:

- 5 million people reside near our pipelines (200,000 miles)
- 100% of population lives near 33% of pipeline (67,000 miles)
- 64% of the 5 million people live in HCA (8,000 miles)
- 128,000 miles have been assessed (64%)
- 89% of total population live near these assessed pipelines

Apply Risk Management beyond HCAs



INGAA's phased approach:

- Phase 1: 90% of nearby population using IM principles by 2012
- Phase 2: 90% of nearby population using ASME B31.8S by 2020
- Phase 3: 100% of nearby population using IM principles by 2030
- Phase 4: Remaining ~20% of mileage with no population using IM principles beyond 2030

Apply Risk Management beyond HCAs



IM expansion will drive more program & physical work:

- Phase 2: 90% of the population nearby pipelines using ASME B31.8S by 2020 – 128,000 miles
- Phase 3: 100% of the population nearby pipelines using IM principles by 2030 32,000 miles
- Phase 4: The remaining ~20% of mileage with no population using IM principles beyond 2030 40,000 miles

Technology development, tool runs, pipeline modifications, pipeline repairs/replacements/testing,...



Demonstrate Fitness for Service on Pre-Regulation Pipelines



Demonstrate Fitness for Service on Pre-Regulation Pipelines

Concerns with pre-regulation pipe also considered in similar venues:

- NTSB San Bruno recommendations
- PHMSA Advance Notice of Public Rulemaking
- Pipeline Safety Act



Demonstrate Fitness for Service on Pre-Regulation Pipelines

INGAA members commit to a systematic validation of records and MAOP for pre-regulation pipelines

- Where records to establish MAOP are inadequate or pipe is untested, INGAA members will apply Fitness for Service (FFS)
- FFS is logical, prioritized process to evaluate and remediate pipe as/if necessary
- High priority pipe by 2020
- Medium priority pipe by 2030



Demonstrate Fitness for Service on Pre-Regulation Pipelines

FFS methodology will drive need for more physical work...

- 125,000 miles of pre-regulation pipe records review ongoing
- Potential FFS process for these miles could lead to:
 - Pressure test
 - Pressure reduction
 - Pipe replacement
 - Use of alternative in-line inspection

Technology development, tool runs, pipeline modifications, pipeline repairs/replacements/testing,...



Shorten Pipeline Isolation & Response Time to 1 Hour in Populated Areas





Concerns with isolation and response times also considered in similar venues:

- NTSB San Bruno recommendations
- PHMSA Advance Notice of Public Rulemaking
- Pipeline Safety Act





INGAA members commit to ≤1 hour isolation and response time for >12" pipelines in populated areas

- Focuses on consequences of incidents
- Risk-based approach ... Incident Mitigation Management (IMM)
- Will likely lead to additional valve automation/modifications
- IMM review for ≤12 pipelines





Recent survey representing ~70% of INGAA mileage:

• 29,800 valves total – 5,000 already automated – 17%

And for >12" in populated areas:

• 5,900 valves – 1,800 already automated – 31%

Valve automation, communication, actuators, etc,...

Pipeline Safety Update – Call to Action





April is... National Safe Digging Month!





Thank you for your commitment to Pipeline Safety...

Questions?