

# 2014 AER PIPELINE PERFORMANCE: Shaping the Next Era



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# COMPOSITE PIPELINE MANAGEMENT

## Overview

1. Causes & Contributing factors
2. Loss Prevention Improvements for Pipelines
3. Summary

## COMPOSITE PIPELINE MANAGEMENT

- Causes and Contributing Factors
  - Failures resulting from:
    - Static Stresses
    - Dynamic Stresses

# 2014 AER PIPELINE PERFORMANCE

## Loss Prevention Improvements for Pipelines



## LOSS PREVENTION IMPROVEMENTS FOR PIPELINES

- Application of Enhanced Tools
  - Through the improved ability to leverage data through GIS, use available technology to help us further improve and refine our pipeline risk assessment process
- Mitigation of incidents
  - Design & Installation to reduce probability
  - Design improvements to manage consequence
  - Ongoing Operations Training
  - Continuous evaluation of lifecycle phases

## COMPOSITE PIPELINES INSTALLATION MITIGATION ACTIONS

- Procedural changes
- Engineering higher grade pipe
- Modification of sequences
- Assessment of valve closing times
- Sharing of best practices
- Continued awareness
- Ensure minimal over-excavation

## COMPOSITE PIPELINES INSTALLATION MITIGATION ACTIONS

- **Industry has seen an increase in Composite failures attributed to Installation methods.**
- **Continued proactive approach and measures can be taken to reduce the probability and consequence**

