

Background and Historical Review of API 1160 Managing System Integrity For Hazardous Liquid Pipelines

Benny Mumme
2012 API Pipeline Conference
April 17-2012

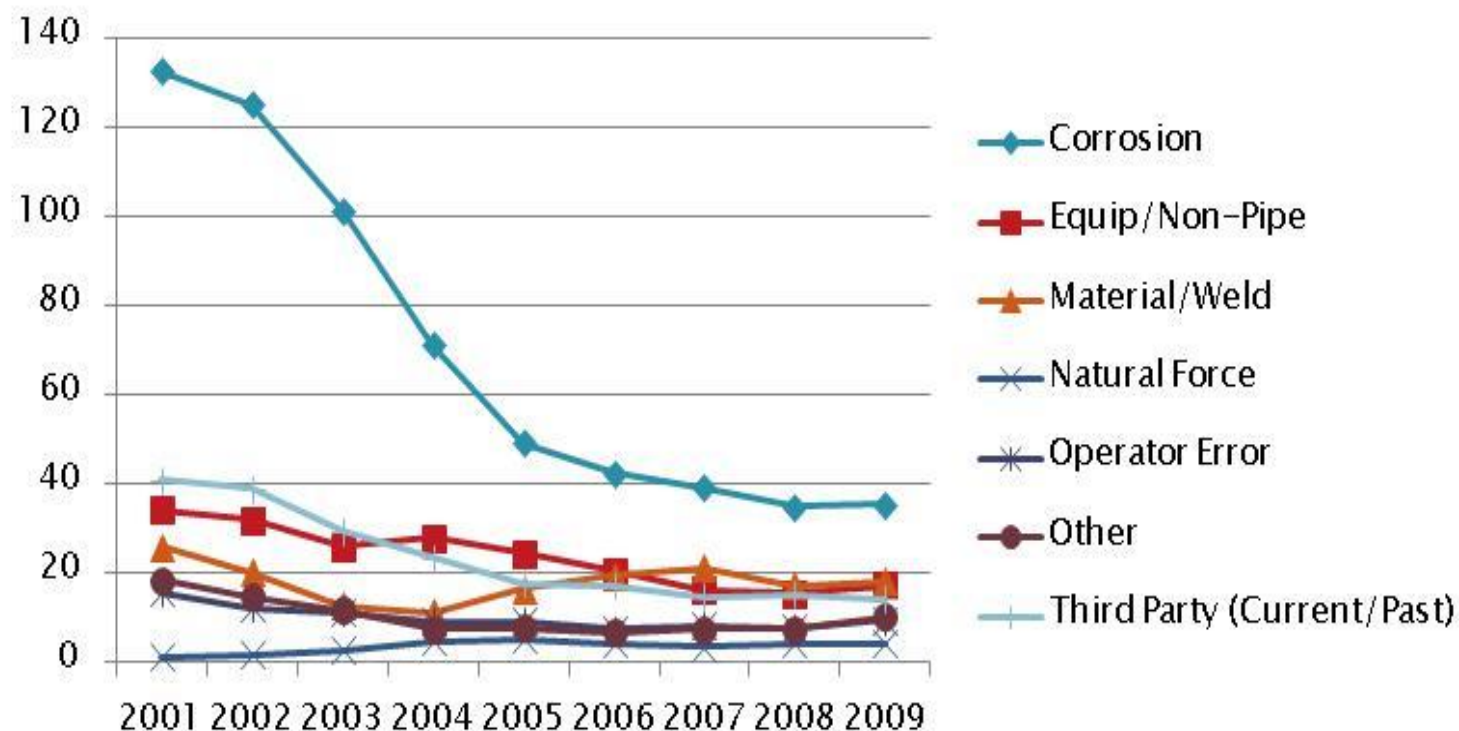
History API 1160

- The RULE – Code of Federal Regulations - 195.452 Pipeline Integrity Management in High Consequence Areas – effective May 29, 2001
 - Purpose of these requirements is to enhance and validate pipeline integrity
- API Standard 1160 First Edition - November 2001 - Managing System Integrity For Hazardous Liquid Pipelines

History API 1160

- Liquid Pipeline Operators developed Integrity Management Plans and have been applying and adjusting them for each of their systems 2001 to the present
- Increased focus and resources to pipeline risk assessment, data integration, understanding threats, preventive and mitigation programs
- Measurable reduction in pipeline releases in the last ten years

Results - Reduction of releases



History API 1160

- Industry Learning
 - Data Integration
 - Multiple data sets
 - In line inspection development
 - Combination tools
 - Resolution and accuracy improvements
 - Crack tool development
 - Many other guiding document developed or updated such as
 - API 2611 Terminal Piping Inspection
 - API 1162 Public Awareness Program for Pipeline Operators
 - API 1163 Second Addition In-Line Inspection of Liquid Pipelines.

History API 1160

- Revision and Updating
 - API Pipeline Integrity Work Group started Late 2008 - Team of Liquid Pipeline Integrity Professionals
 - Contract bids – Hired Dr. Kiefner 2009 to update API 1160 with support of SME for the various sections of the document

History API 1160

- Currently completed the comment review. Positioned to send out for ballot. Should be published in 2nd quarter 2012
- What it is today? Recommended Practice
 - Pipeline Integrity guidance document
 - Road Map to the many other Industry Integrity Management documents