

August 25-26, 2015 - PHMSA TAC Meeting, Washington, DC Ron McClain – Kinder Morgan – RP Committee Chair





- The new ANSI/API Recommended Practice 1173 is reality. First Edition, July 2015
- It results from over two years of committee work and stakeholder engagement.
- PHMSA hosted three workshops with heavy attendance during development and publication.
- There were 13 revisions within the committee work and 1400 comments were resolved through two balloting efforts.
- There was unanimous approval at the second ballot
- NTSB Concurred the RP satisfied their recommendations to API
- The published RP has the potential to impact pipeline safety more than other standards because it sets overarching management processes





#### **NTSB** Recommendations to API

- Implementation of SMSs in transportation systems by elevating SMSs to its Most Wanted List.
- SMSs continuously identify, address, and monitor threats to the safety of company operations by doing the following:
  - Proactively address safety issues before they become incidents/accidents.
  - Document safety procedures and requiring strict adherence to the procedures by safety personnel.
  - Treat operator errors as system deficiencies and not as reasons to punish and intimidate operators.
  - Require senior company management to commit to operational safety.
  - Identify personnel responsible for safety initiatives and oversight.
  - Implement a nonpunitive method for employees to report safety hazards.
  - Continuously identify and address risks in all safety-critical aspects of operations.
  - Provide safety assurance by regularly evaluating (or auditing) operations to identify and address risks.





### The Prize is Improved Safety

- Pipeline safety stakeholders led by the American Petroleum Institute (API) developed a comprehensive framework of recommended practices for pipeline safety and integrity procedures across the United States.
- Result: New API Recommended Practice 1173 Pipeline Safety Management System specific to pipeline operators across the United States
- Key components of RP 1173:
  - How top management develops processes to reveal and mitigate safety threats
  - Provide for continuous improvement
  - Make compliance and risk reduction routine through intentional actions by top management, management and employees





## **SMS** Development Committee Members

- Ron McClain, Kinder Morgan, Chair
- Mark Hereth, P-PIC, Content Editor
- Scott Collier, Buckeye Partners
- Tom Jensen , Explorer Pipeline
- Paul Eberth, Enbridge Pipelines
- Mark Weesner, Exxon Mobil
- Brianne Metzger-Doran, Spectra Energy
- Tracey Scott, Alliance Pipeline
- William Moody, Southwest Gas
- Nick Stavropoulos, Pacific Gas and Electric
- Steve Prue, Small Gas Distribution
- Bill Hoyle, Public Subject Matter Expert
- Stacey Gerard, Public Subject Matter Expert

- Jeff Wiese, PHMSA
- Linda Daugherty, PHMSA
- Edmund Baniak, API
- Robert Miller, AZ Corporation
  Commission
- Massoud Tahamtani, VA State Corporation Commission
- Bob Beaton, NTSB (Ex Officio)
- John Erickson, APGA
- Kate Miller, AGA
- Scott Currier, INGAA
- Peter Lidiak, API
- John Stoody, AOPL





#### Essential Safety Management Systems Elements

- Leadership and Management Commitment
- Stakeholder Engagement
- Risk Management
- Operational Controls
- Incident Investigation, Evaluation, and Lessons Learned
- Safety Assurance
- Management Review and Continuous Improvement
- Emergency Preparedness and Response
- Competence, Awareness, and Training
- Documentation and Record Keeping





- While not a required model, the PDCA is one way to pursue continuous improvement
- Management and Leadership are at the center of this effort, casting vision and adding energy to sustain implementation.







## **Continuous Improvement and System Maturity**

- Think about PSMS implementation as a journey, not a destination.
- Operators will never be 'finished' with SMS implementation as continuous improvement will reveal new possibilities.
- While operators should seek to gain conformance to the standard with a sense of urgency, timeframes to reach significant and widespread maturity across all elements are measured in years. As a PSMS matures, it is subject to assessment and continuous improvement.





# What is next?

- The committee's intent was to provide a framework, scalable for
  - Large and Small Operators
  - Operators with highly evolved management systems or those starting from scratch
  - Implementation might consist of:
  - **1.** Reading the practice several times to gain the overall intent
  - 2. Listing your perception of explicit requirements
  - 3. Gathering your existing procedures and processes, including your MS if you've already started
  - 4. Identification of gaps and prioritized steps to close the gap
  - 5. Repeat . . . PDCA Watch for assured results
- Industry Trade Associations will assist pipeline operators with implementation and assist PHMSA with measurement of RP acceptance.
- Natural Gas, Oil and Distribution operators will report on their industry efforts to promote implementation

