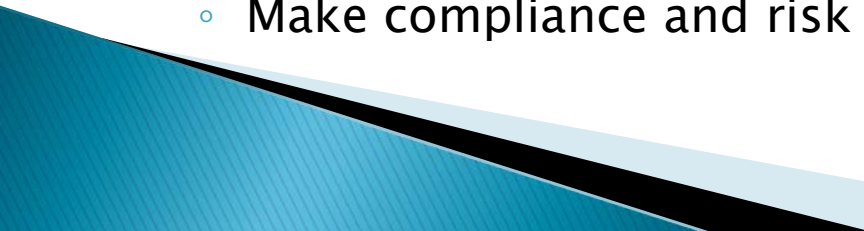


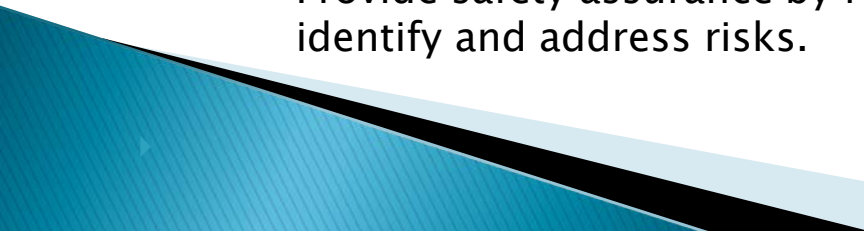
# Pipeline Safety Management System

API RP1173 Development Update  
PHMSA Workshop  
February 2014

# The Prize is Improved Safety

- ▶ Pipeline safety stakeholders led by the American Petroleum Institute (API) are working to develop 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.
- 

# NTSB Recommendations

- ▶ 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.
- 

# SMS Development Team

- ▶ 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 (Standards Support)
- ▶ 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 Stody – AOPL

# About the Process

After the NTSB recommendation that API develop a pipeline specific safety management system, PHMSA hosted a workshop to better understand the stakeholders in the process.

Team members were solicited from every stakeholder group.

Diverse views, individual agendas

Engaged other industries and SME's with experience with SMS

RP 1173 team shares views, listens to other stakeholders to develop a common agenda and purpose.

## **Pipeline Safety Management System Requirements**

API RECOMMENDED PRACTICE 1173  
FIRST EDITION, FEBRUARY 2014

VERSION 10

# Essential Safety Management System 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

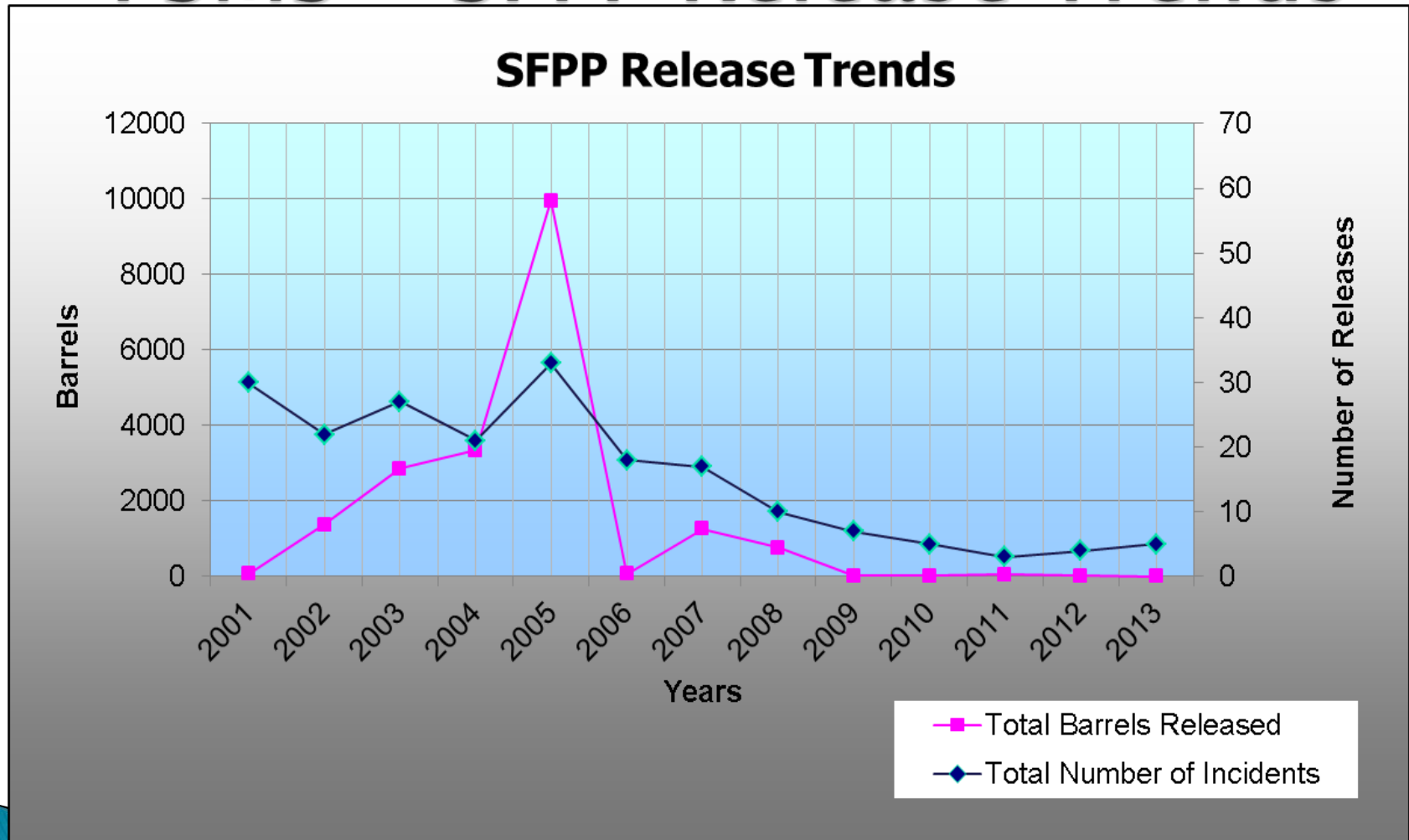
# Timeline

- ▶ NTSB Report – Marshall, MI – July 10, 2012
- ▶ API Workshop on Management Systems – October 4, 2012
- ▶ Initial Meeting of SMS Development Team Members – December 18, 2012
- ▶ Time to conclude: 18 months to allow for development, drafts for comments, final version, API Balloting
- ▶ August 2013 4<sup>th</sup> Internal Draft RP 1173 Review
- ▶ External Review and Comment Process TBD
- ▶ Potential Publication – 2<sup>nd</sup> half of 2014





# Personal Experience with PSMS – SFPP Release Trends



Releases > 5 Gallons  
ROW and Facilities

Actual thru December 31, 2013