#### PIPELINE SMS INDUSTRY TEAM

# PIPELINE SMS WEBINAR BEGINNERS ON THE JOURNEY

#### MAY 21<sup>ST</sup>, 2019

American Public Gas Association











### **BEGINNERS ON THE JOURNEY**

- Greeting and API Antitrust Statement
- Why Pipeline SMS Value & Benefits
- What is Pipeline SMS

 $\odot$  Examples and experiences

• Getting started

 $\odot$  Industry Resources and Tools to help start the journey

- Pipeline SMS Industry Team happenings
- Group discussion



### **TODAY'S SPEAKERS**

- David Murk, API Pipeline Manager
- Jeff McGill, Energy Transfer Partners, Director PSMS
- Cindy Graham, Enbridge Inc., Director-Safety & Reliability Governance
- David Hoffman, Enbridge Inc., Manager-Integrated Management-Liquids Pipelines
- Bill Byrd, RCP, President
- Jim Crowley, Manager Gas, Meter & Corporate Safety, Easton Utilities



## **API ANTITRUST GUIDELINES**

- No discussion or forecasting of prices for goods or services by or received by a company.
- No sharing or discussing any company's confidential or proprietary information.
- No discussion of any company's specific purchasing plans; merger/divestment plans, production information, inventories or costs.
- No sharing or discussion of specific company compliance costs, unless publicly available.
- No agreement or discussion regarding the purchase or sale of goods or services (such decisions are independent company decisions).
- No discussion on how individual companies intend to respond to potential market/economic scenarios or government action: discussion limited to generalities.
- No disparaging remarks regarding specific vendors, products or services.



## **O**BJECTIVES

#### Provide information on the value of PSMS, the basic concepts around PSMS and the tools and resources that are available to help Operators begin implementation



## **COMMITMENT TO PIPELINE SAFETY**

- Pipeline systems have excellent safety records overall
- Incidents, while low probability, can and do happen
- A single incident can have a large impact
- A pipeline incident on any of our systems can impact every operator in the country
- Ultimate goal is zero incidents



## **COMPLEX SYSTEMS NEED BETTER APPROACH**

- Complex systems fail in unpredictable ways
- Regulatory requirements can't think of every scenario in every system
- Avoiding low probability, unpredictable incidents requires more effort
  - $\odot$  Need broad scope to identify gaps
  - $\odot$  Systematic approach closes gaps
  - $\odot$  Mechanisms for improvement help find and fix the unknown
- Goal of zero incidents provides target, but need mechanism to get there



## **SMS DELIVERS BENEFITS**

- Understand and manage safety efforts
- Continuously improve their pipeline safety performance
- Learn from experience
- Gain efficiencies while improving safety



## How SMS HELPS

- Systematic approach to managing safety
- Includes what an organization uses to direct and control its activities

**Pipeline** SM

- Offers a structured framework for much of what already doing
- Basic elements are applicable to any size operator
- SMS are intentionally flexible and scalable
- Provides mechanism to continuously improve

### **PIPELINE SMS BY PIPELINE OPERATORS FOR PIPELINE OPERATORS**

- SMS successful in other industries like aviation, nuclear, chemical
- NTSB recommended development of SMS specific to pipelines
- Pipeline SMS developed jointly by gas and liquids transmission, public and investor gas distribution, federal and state regulators

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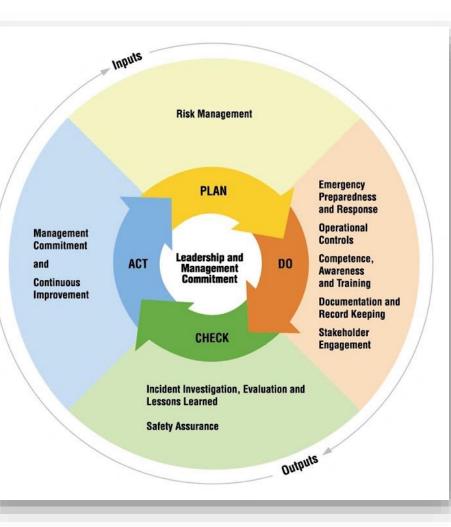
**Pipeline** SM

- Resulting Pipeline SMS exceeded expectations of NTSB
- Pipeline SMS supported by PHMSA

#### **PIPELINE SMS FUNDAMENTALS**

#### PIPELINE SAFETY MANAGEMENT SYSTEM - API RP 1173

<b>10 ELEMENTS</b>	Holistic Integrated Framework
System	Flexible & scalable
Continuous Improvement	Plan-Do-Check-Act
SAFETY CULTURE	The glue





## PIPELINE SMS IS FLEXIBLE AND SCALABLE TO ANY SIZE OPERATOR

- SMS is a basic framework on core topics that apply to operating any pipeline system safely
- SMS is scalable to company sizes and operations
- Companies choose how in-depth they develop their SMS programs
- PSMS is flexible with existing company approaches
- Like companies that structure themselves differently to reflect their systems, needs and cultures, SMS can be customized to reflect the company

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## PIPELINE SMS IS NOT:

- A one size fits all approach
- Something only large companies do
- Something you can't customize to fit your own unique needs
- A one-and-done or check-the-box type of activity
- A quick fix approach to pipeline safety



### **EXAMPLES – LEARNING WHERE YOU ARE AND WHERE NEED TO GO**

#### #1 - Safety Culture

- 1. Employees may be unaware they have the right to stop the job if there is an unsafe condition
- 2. Employees know they have the right to stop the job, but there is no evidence anyone ever has
- 3. Know rights and there are occasions where stopped because they identified an unsafe condition
- 4. Know rights, have stopped, then employer used those situations as examples in training and shared those scenarios with rest of employees



### **EXAMPLES – LEARNING WHERE YOU ARE AND WHERE NEED TO GO**

#### **#2 – Procedure Review**

- 1. Review operation procedures as needed
- 2. Review some annually, but not all
- 3. Review all annually, but only to meet regulatory requirements. Could be better at documenting and communicating changes that are made
- 4. Review annually, document and communicate changes made
- 5. Review annually, consider feedback and information gathered throughout the year to make changes, and document and communicate changes that are made

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### **EXAMPLES – LEARNING WHERE YOU ARE AND WHERE NEED TO GO**

#### **#3 – Construction Practices**

- 1. Know how to do the work based on how we were taught to do it. Don't have written requirements, specification to tell how work needs to be done
- 2. Some written specifications for design, but otherwise are free to do the work as we think best
- 3. Have written specifications for design, allowed to deviate without approval, but have to document changes that were made
- 4. Have written specifications, can deviate, but have to get approval and document
- 5. Written specifications, can deviate, need approval, do document. Perform quality inspections to ensure things are constructed per the design or the approved changes



#### **PSMS BENEFITS – OPERATOR'S PERSPECTIVES**

PSMS benefits of implementation from the Operator's perspective:

### Jim Crowley, Manager — Gas, Meter & Corporate Safety Easton Utilities



## HELP FOR LEARNING ABOUT AND IMPLEMENTING PIPELINE SMS

- Industry is here to help operators learn about and implement SMS
- Industry-wide team of gas and liquids transmission, public and investor gas distribution systems working together
- Materials available describing Pipeline SMS
  - $\odot$  What, how and why to adopt pipeline SMS
  - $\odot$  How to get started
  - $\odot$  Planning tool assess where you are and what you should work on
  - $\odot$  Evaluating progress developing own customized Pipeline SMS



### **PIPELINE SMS TOOLS & COMMUNICATIONS**

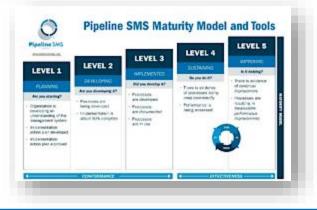
#### WEBSITE www.pipelinesms.org

Revamped in 2018 to improve functionality

#### BOOKLETS



- ✓ SMS Maturity Model
- ✓ Planning and Implementation *gap* assessments
- TOOLS
- $\checkmark$  APGA PSMS Planning Tool
- ✓ Evaluation *effectiveness* assessment
- ✓ Peer-to-peer sharing practices
- ✓ Voluntary API third-party assessment program



WORKSHOPS & WEBINARS

✓ 2017 and 2018 materials available on-line at www.pipelinesms.org

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Pipeline SMS

### THE SMS JOURNEY



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Pipeline SMS

#### **PSMS ROADMAP** TOOLS TO HELP ALONG THE JOURNEY

#### **GETTING STARTED**

- Study API RP 1173
- Attend workshops
- · Consider the benefits
- · Talk with peers

- Obtain management committment to API RP 1173 implementation
  - Liquid operators: <u>Commitment Letter</u>
  - AGA members: <u>Commitment to Enhancing Safety</u>
  - INGAA members: Commitment to Pipeline Safety

#### PLANNING TOOL

- Summary of API RP 1173 requirements (71 questions)
- A gap analysis tool to compare an operator's existing system to the requirements of API RP 1173
- Documents action plans and responsibilities to close gaps

**START** 

 Helps operators achieve Level 1 maturity (develop a plan, and begin work)

#### **IMPLEMENTATION TOOL**

- Summary of API RP 1173 requirements (71 questions)
- Evaluates and summarizes the operator's implementation status by question, element and overall
- Helps operators track development of programs to implement the RP up to Level 3 or 4 maturity

#### **EVALUATION TOOL**

- Comprehensive set of questions with ratings for all aspects of API RP 1173
- Helps operators evaluate the effectiveness of their programs in achieving the objectives of the RP (Is it helping?)
- Appropriate at Level 3 maturity or beyond



Determines Effectiveness score

CONFORMANCE CHECKLIST (all API RP 1173 "shall" statements)

#### PEER-TO-PEER SHARING APPROPRIATE AT ALL MATURITY LEVELS



#### **VOLUNTARY API THIRD-PARTY AUDIT PROGRAM**

- API-administered audit program for conformance to API RP 1173
- Yields an objective evaluation and score to measure continuous improvement and/or benchmarking
- Appropriate at Level 3 maturity or beyond

#### **PIPELINE SMS INDUSTRY TEAM**

#### Increase Industry Participation

Trade Association SMS Alignment
• Strategic Plans
• Conferences
• RP & Committee Alignment
• Award Criteria

Industry Annual Survey

Industry SMS Annual Awards

"Barrier to Entry" Determination

#### Ensure Proactive External Engagement

"One Industry, One Mission" Communications

> Target Audience: • Contractors • Regulators

Annual Report

#### Provide Ongoing Support for Operator Journeys

## Training & Education • Workshops • Conference Calls • E-Learning (API)

• E-Learning (API) • PipelineSMS.org Website

**3rd Party Voluntary Assessment** 

Culture Survey for Operator Use

Culture Survey for Operator Use

Element "deep dives" by year (e.g. Risk Management and MOC)

#### Provide Governance & Oversight

Finalize Industry Team Charter

Reaffirmation / Reauthorization of 1173

Team meeting structure / scheduling

Membership

Roster by Industry SegmentRoles & Responsibilities

• Terms

Rotation



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#### WHAT'S NEXT?

- PRACTITIONER MENTORSHIP PROGRAM
- ELEARNING: API RP 1173 (AVAILABLE END OF MAY) AND API RP 1175 (AVAILABLE NOW ON API LMS)
- WEBINAR: Practitioners & SMS Program Managers | June 4<sup>th</sup>, 11a 12:30p EDT
   Considering additional webinars for beginning journey... based on survey feedback
- WORKSHOP: Making it Real | December 4<sup>th</sup> and 5<sup>th</sup>, 2019

Interested in getting engaged with the team? Contact the Industry Team at <a href="mailto:pipelinesms@api.org">pipelinesms@api.org</a>

Need your input... Please complete the survey



#### WRAP-UP

- Implementing PSMS is a journey, not a destination
- Companies and systems are at different stages: beginning, modifying, improving
- No matter what stage in process, just want to see improvement trend
- All companies have gaps or areas where can improve
- Finding issues to fix is a good thing



## WE WANT TO HEAR FROM YOU

# THANK YOU

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