

Stakeholder Engagement

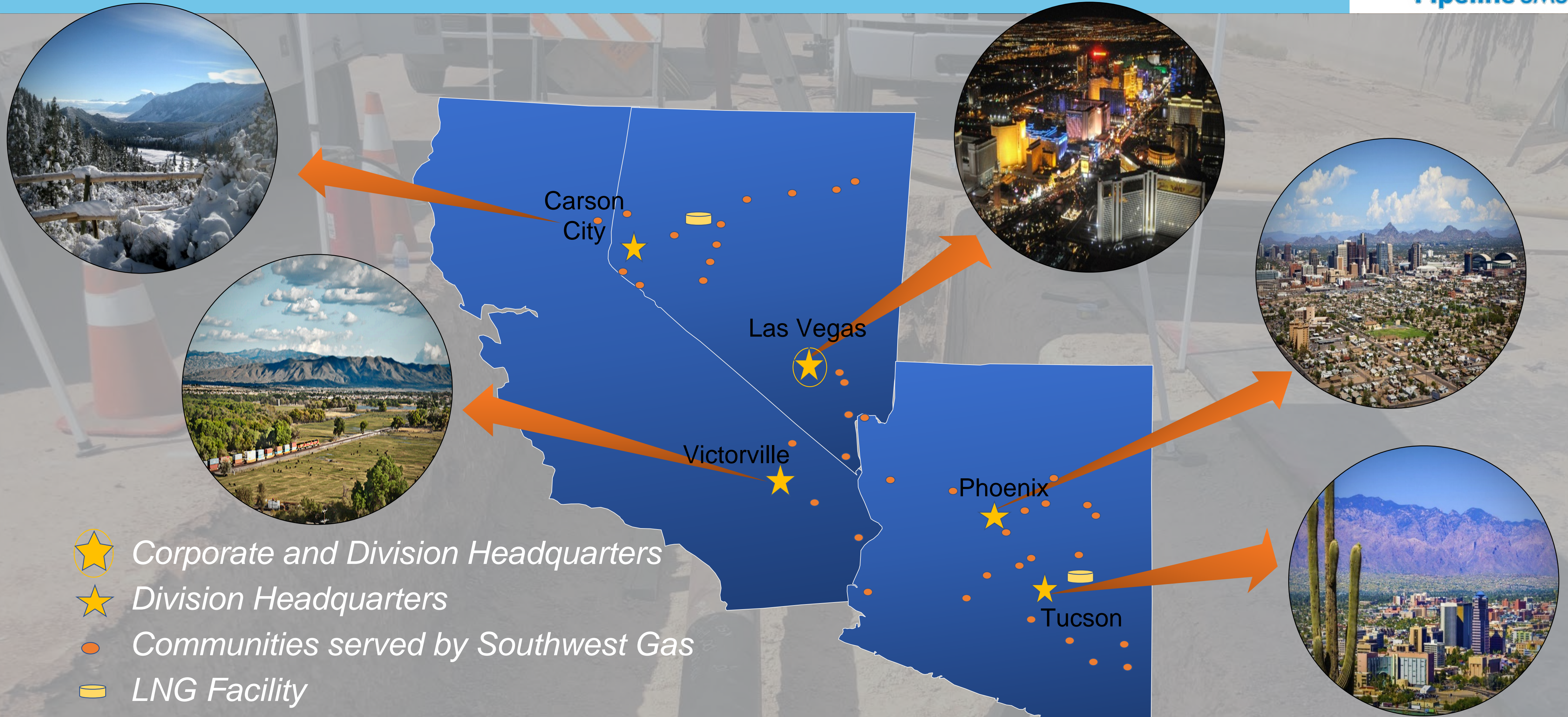
Southwest Gas Corporation



Pipeline SMS



Southwest Gas Operations



Southwest Gas 2019 Profile



55,700 Miles of Main and Service



2.07 Million Customers



2,386 Employees



PSMS Showcase



PIPELINE SAFETY MANAGEMENT SYSTEMS

Committed to Continuous Improvement. A Journey, Not a Destination.

Protect Communities and the Environment

To gain a better understanding of how to systematically manage pipeline safety.

Strengthen the Safety Culture of an Organization

To reinforce safety as a core value.

Continuous Safety Performance Improvement

To use a systematic approach to identify and prevent safety hazards before an incident occurs.



THE PLAN-DO-CHECK-ACT CYCLE

Helps PSMS continue to improve pipeline safety.

PLAN

- Set safety goals
- Establish metrics to measure goals against applicable regulations and standards
- Generate procedures to perform relevant gap analysis

DO

- Execute procedures outlined in Plan section
- Collect and analyze all relevant data

CHECK

- Perform gap analysis
- Measure programs and procedures against goals set up in Plan step and applicable regulations and standards
- Identify successes and areas for improvement

ACT

- Address gaps identified in Check section
- Generate policies to address identified areas for improvements

10 ESSENTIAL ELEMENTS

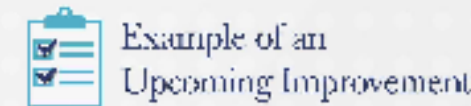
- 1 Leadership and management commitment
- 2 Stakeholder engagement
- 3 Risk management
- 4 Operational controls
- 5 Incident investigation, evaluation and lessons learned
- 6 Safety assurance
- 7 Management review and continuous improvement
- 8 Emergency preparedness and response
- 9 Competence, awareness and training
- 10 Documentation and record keeping



Example of an Inspired Program

Stop Work Process

Southwestern and contractors alike have the right and responsibility to halt any work activity when safety concerns exist or may exist. The temporary suspension of a work activity provides an opportunity to appropriately assess and correct unsafe conditions before proceeding with work.



Example of an Upcoming Improvement

Management of Change


A best practice to ensure safety, health and environmental risks are controlled when retooling, equipment, procedures or organizational changes are made. The MOC process can be very effective in the prevention of incidents by improving day-to-day operations.

* For more information, access the Pipeline Safety Management Plan on the InfoNet.



Video Loop, Storyboard, Handouts and More!

Safety Meetings



EMPLOYEE AND PIPELINE SAFETY CALL

August 11, 2020

Meeting Resources

Safety Call Recording: [Safety Call Recording](#)

Attendees: 210

Introduction/Safety Moment


Greeting to everyone on the call

- Overview of Live Event
 - Attendees won't be able to unmute
 - To participate, use the Questions & Answers (Q&A) function in Teams
 - Attendees can/should submit questions
 - The safety call team will be asking questions and requesting feedback throughout the event
 - Make sure to participate
 - Q&A are summarized at the end of the minutes

Safety/Quality/Excellence Moment

Excavation Good Catch

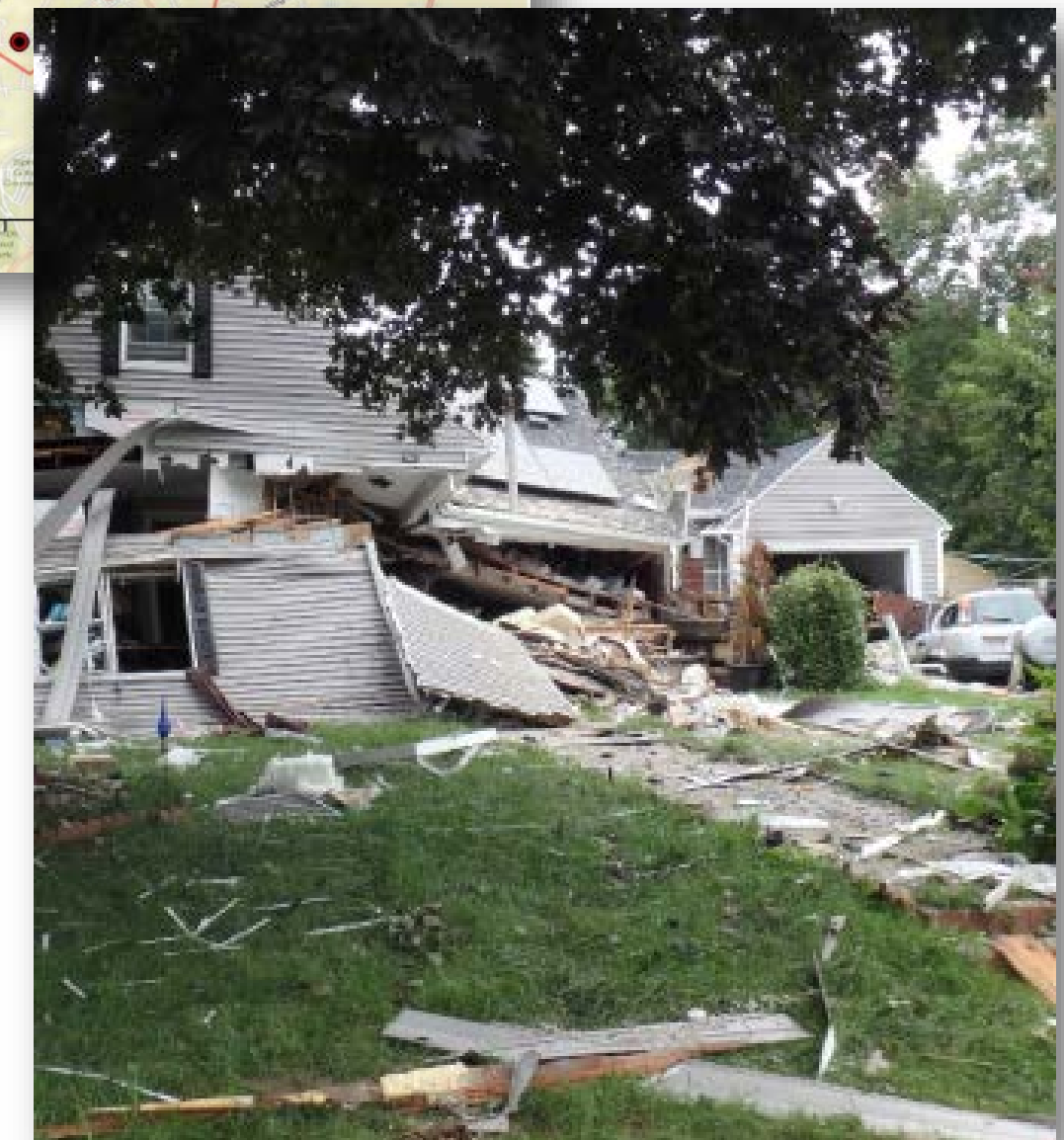
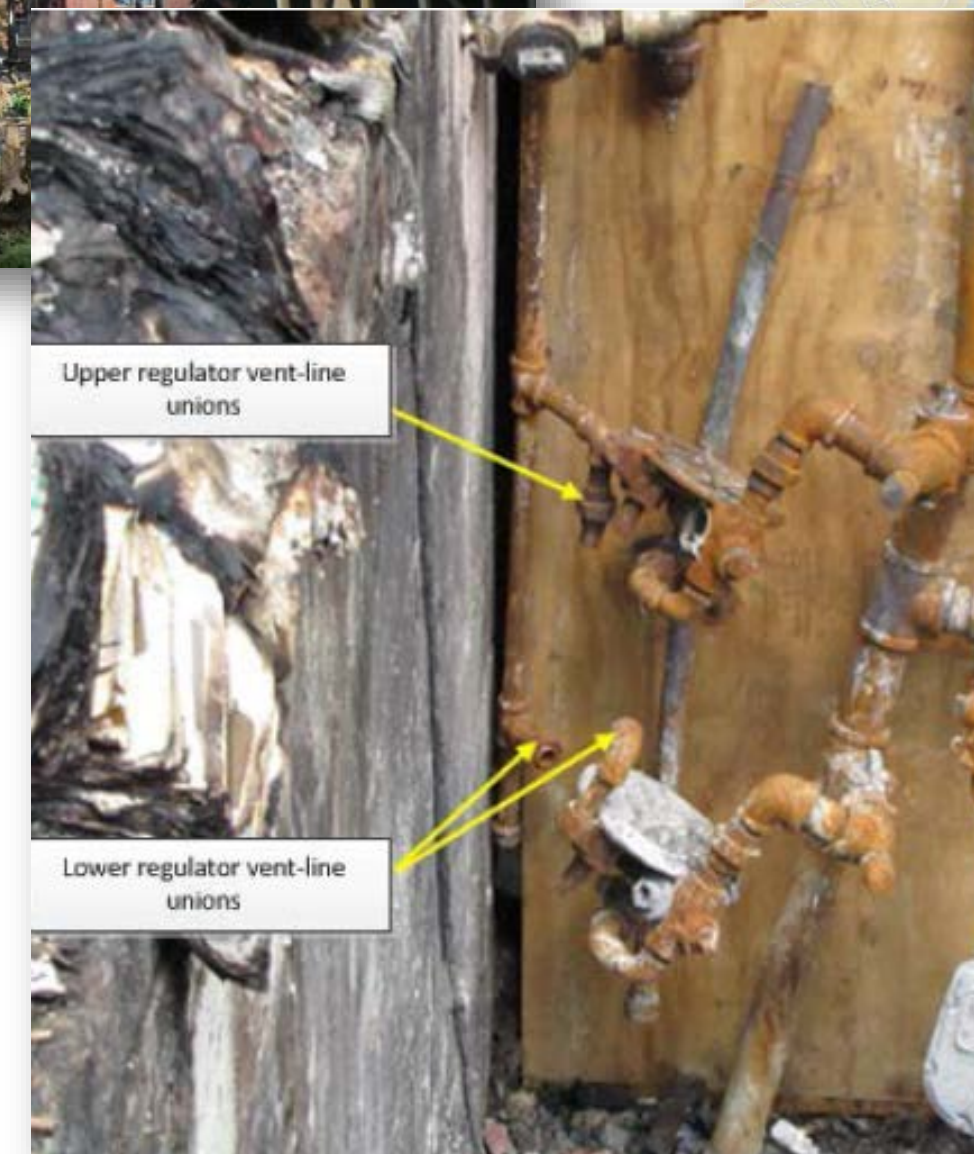
- SAZ Crew Leader identification of an unsafe condition.
- Good catch related to trenching and excavation
- See something say something
- Shields shall be installed in a manner to restrict lateral or other hazardous movement of the shield in the event of the application of sudden lateral loads.



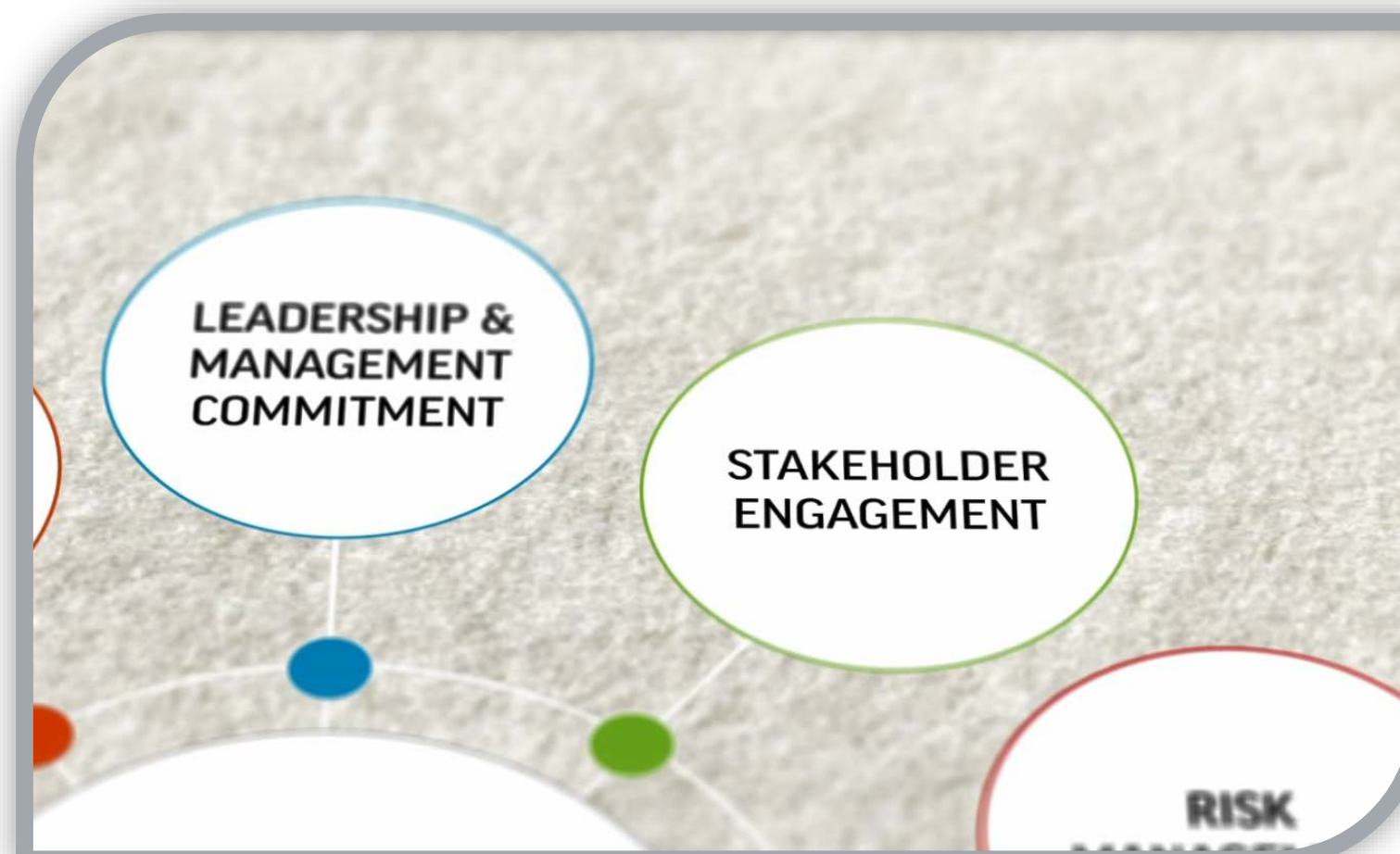
Safety Metrics

Occupational Safety

- OSHA DART Rate TMTD (Twelve Months to Date)
 - Days away, restricted or transferred
 -
 -



“Walk the Talk” Videos



SWG Board Presentations



[SOUTHWEST GAS CORPORATION ("SOUTHWEST")]

AGENDA ITEM 5d(1)

PIPELINE SAFETY UPDATE – INFORMATION ONLY

Pipeline Safety Reauthorization

Background

The federal Pipeline Safety Act mandates minimum safety standards for pipelines and certain associated storage and other facilities. Congress generally issues new pipeline safety bills every four years to serve to reauthorize spending for the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration (PHMSA). The current 117th Congress convened in early 2019 and began working on multiple independent Pipeline Safety Reauthorization bills between the House of Representatives and the Senate. The development of these bills was influenced by topics such as greenhouse gas emissions and climate change as well as significant recent natural gas incidents, such as the NiSource Merrimack Valley incident that occurred in September 2018.



Pipeline
Safety
Management
System



American
Petroleum
Institute



PSMS Champions Network



American Public Gas Association



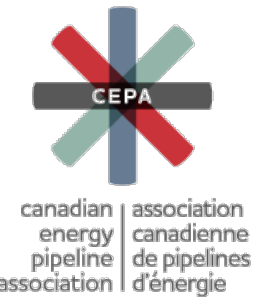
American Petroleum Institute



canadian energy pipeline association
association canadienne de pipelines d'énergie



API Tool - Evaluation



Associated PSMS Champions Activities



Messaging

- Safety Culture
- Essential Elements
- Lessons Learned



Measuring

- Ensure appropriate KPIs

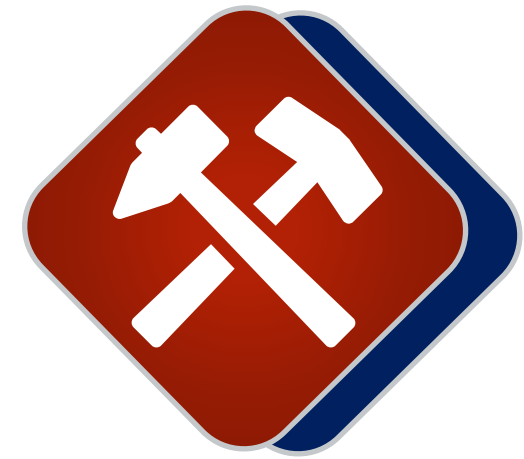


Improving

- Update PSMS Plan
- Suggest other updates



PSMS Contractor Engagement



PSMS Workshops



Contractor Commitment



Gap Analysis



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THANK YOU!

Visit us at: pipelinesms.org

Southwest Gas Corporation