



PIPELINE SAFETY MANAGEMENT SYSTEMS

Safety En Banc

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SOUTHWEST GAS OVERVIEW

- Operates in three states
- **2+ million customers** Companywide
- **In California**
 - **Approximately 194K customers**
 - **Communities served**
 - Victorville/Barstow/Big Bear
 - Lake Tahoe/Truckee
 - Needles

FUNDAMENTALS

The background of the slide features a stack of yellow pipes with blue end caps. A semi-transparent white text box is overlaid on the right side of the image, containing a list of bullet points. The word 'FUNDAMENTALS' is written in white capital letters on a dark blue rectangular background in the upper left corner.

- Southwest Gas very familiar with Safety Management Systems
- Part of development team for API 1173
- PSMS elements in place at Southwest Gas
- Focused on continuous improvement of safety
- Result is a strong safety culture

STRONG SAFETY CULTURE

A photograph of a construction site. In the foreground, a large grey pipe is being laid in a deep trench. Several workers in orange safety vests and hard hats are visible. In the background, there are utility poles, power lines, and a yellow crane. The scene is outdoors and appears to be a utility installation project.

- California Safety Plan – published May 2012
- Stakeholder Communications
 - Safety Calls – twice monthly started June 2016
 - Operations Calls – bi-monthly started June 2015
 - Board Safety Letter – established May 2013
- “Walk the Talk” – launched January 2016

STRONG SAFETY CULTURE



■ Videos

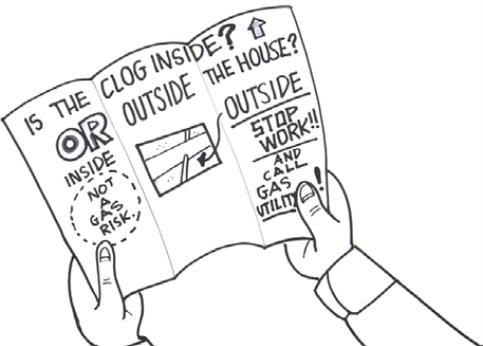
- Commitment to Safety – John Hester
- What is DIMP?
- Vehicle Safety
- Quality
- Accurate Documentation
- Cross Bores Aren't Boring

■ Bulletins

- Safe Digging Month
- Transmission Integrity Management Program
- Stop Work



Crossbore?
STOP work
Call plumber,
gas utility,
or Local One
Call Center



STRONG SAFETY CULTURE

- Training
 - Emergency Response Training Facility
 - 5-year Operator Qualification
 - Construction and Customer Service
 - Annual Emergency Response Training
- Contractor Quality Installation Program
- Construction inspection modernization



SWG PSMS IN ACTION

- PSMS Steering Committee formed
- Gap analysis completed
- Stop Work formalized
- Roadmaps developed
 - Employee safety
 - Quality assurance
 - Technical training

ENHANCEMENTS TO PSMS



- Safety Culture Survey
 - Included key Operations management personnel
 - Results confirmed, added and prioritized PSMS enhancements
 - Additional surveys planned
- Enhancement Action Item List

INDUSTRY PARTNERSHIPS



- AGA PSMS Workshop
- AGA Peer Reviews
 - evaluator and subject
- AGA Discussion Group
- AGA Pilot Implementation Group
- Peer Conference Calls



SUMMARY

- Management “Walks the Talk”
- Honest and in-depth Gap Analysis
- Detailed Enhancement Plan
- Good stakeholder communications
- Commitment to industry
- Supportive of PHMSA that key to success is voluntary initiative



THANK YOU

DO NOT
ENTER
TRAINING
IN SESSION