



Pipeline Operations

Introduction:

- This module provides training on
“Pipeline Operations”
- Gas Pipeline Regulations:
49 CFR 192: 605 & 619
- Hazardous Liquid Pipeline Regulations:
49 CFR 195: 402, 406, & 426



Pipeline Operations

Objectives To Be Learned:

1. O&M Requirements
2. CSFM requirements



Pipeline Operations

Objectives To Be Learned (cont): Company Specific Procedures

3. Precautions when starting up & shutting down
4. Maintain pressure within allowable limits
5. Manually or remotely open or close valves or other equipment
6. Monitor flow rates and operate control devices
7. Monitor leak detection and line integrity
8. Monitor communications



Pipeline Operations

Objectives To Be Learned (cont):

9. Documentation required
10. Recognize and react to AOCs



Pipeline Operations

Module Test:

- Must pass written test
- Must score 100% on critical questions & 80% overall
- Job Performance Evaluation (JPE) required for this covered task



Pipeline Operations

Background:

- Law requires pressure tests
- OPS is administering body (Gas)
- CSFM is also administering body (liquid)



Pipeline Operations

Procedural Manual – General: [192.605(a), 195.402(a)]

- Each operator shall prepare and follow written procedures for operation, maintenance, and emergency response
- Review and update manual once per year, not to exceed 15 months
- Manual must be prepared before startup
- Keep copy at appropriate locations



Pipeline Operations

Procedure Manual – Start Up and Shutdown

[192.605(b)(5), 192.199, 192.201, & 195.402(c)(7)]

- Startup/Shutdown within MAOP and build-up
- For liquid, consider variations in altitude along the pipeline



Pipeline Operations

Refer to Company Specific Procedures for the following:

- Precautions when starting up & shutting down
- Maintain pressure within allowable limits
- Manually or remotely open or close valves or other equipment
- Monitor flow rates and operate control devices
- Monitor leak detection and line integrity
- Monitor communications



Pipeline Operations

Abnormal Operating Conditions

- Leak
- Piping, valve, or component failure
- Ignition of release fluids
- Exceedance of MAOP/MOP plus buildup exceeded
- Unexplained pressure deviation



Pipeline Operations

Reaction to AOCs

- Step 1: Scope & Assessment
- Step 2: Protection of the public, em. responders, company personnel, and the environment are 1st Priority



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Reaction to AOCs (cont.)

- Step 3: Mitigation
 - ✓ Develop proper course of action (evacuation, traffic control, scheduled maint., etc.)
 - ✓ Determine action needed to stop AOC (close a valve, emergency shutdown of all or part of the pipeline)
 - ✓ Notify appropriate supervisor



Pipeline Operations

Documentation

- As a minimum document all exceedances of MAOP/MOP, and other AOCs
- Documentation should include; date of survey, area covered, and any AOCs discovered



Pipeline Operations

Review:

- O&M requirements
- Documentation
- Recognize and react to AOCs



Pipeline Operations

Review (cont):

- Company specific procedures (startup & shutdown, maintain pressure, remote operation, monitor flows, leak detection, communication and pipe integrity)