Overview of Recent & Pending Changes That Will Affect Pipeline Safety

2016 Pipeline Safety Trust Annual Conference

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2016 Federal Legislation

- Agreed with PST & Congress: Major New Mandates Wouldn't Be Helpful
- Ensure Emergency Orders Used to Address Imminent Hazards
- Information Sharing Can Improve Safety Performance
Pipeline Safety Information Sharing

- Recognize Aviation Industry Success
- Pipeline Safety Sharing & Learning Program Expanded this Summer
- Formed API-AOPL Team to Prepare Industry Participation in DOT Group
- Ground Rules Vital to Success
Liquids Pipeline Safety Record

• Incidents Impacting Public or Environment Down 52% Since 1999
  ✓ Smart Pig Technology
  ✓ Proactive Inspections
  ✓ Preventative Maintenance

• Recognize Need to Do More to Resume Downward Trend
Incidents Per Mile Over Last 5 Years:

- Small Incidents Up 27%
- Medium Incidents Down 12%
- Large Pipeline Incidents Down 32%
Most Incidents Very Small in Size

Each Liquids Pipeline Incident in 2015 by Barrel Size

- 44% <= 1 bbl
- 65% <= 5 bbl
- 17% >= 50 bbl
- 5% >= 500 bbl
Industry-Wide Safety Efforts

Safety Improvement Teams
PSE SC, PET, OTG, PIWG, Cybernetics, EHSG, PAG, OQWG

Industry-Wide Safety Efforts
PIX, Tailgates, Webinars, Team Sharing Sessions

Standards, Recommended Practices & Technical Reports
RP 1173 PSMS, RP 1160 Integrity Management, RP 1174 Emergency Response

Research & Development
PRCI Support, OTG Subgroup, R&D Team
Multiple New Industry-Wide Safety Tools and Recommended Practices

- Cracking
- Leak Program Management
- Pipeline Safety Management Systems
- Emergency Response
- Water Crossings
- Data Integration
- Hydrotesting

Industry-Wide Implementation Support

- Education & Awareness Tools
- Implementation Tools
- Webinars & Forums
- Peer-to-Peer Sharing
- Assessment Tools
- Improved Performance Metrics
API Operator Advisory on Facilities

- Developed by API-AOPL Performance Excellence Team
- Targets Incidents Specific to Facilities
  - Pumps – Seal Failures
  - Incorrect Operation – Valve Position
  - Internal Corrosion – Dead Legs
- Provides Improvement Recommendations
Industry-Wide Safety Sharing

- **Pipeline Information eXchange (PIX)**
  Annual Sharing Forum for Incident Lessons Learned

- **Safety Sharing Tailgates**
  Quarterly Webinar Sessions for Safety Lessons and Near Miss Learnings

- **Pipeline Industry Practical Experience Sharing (PIPES) Portal** Now Live
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<th>Industry-Wide Efforts on PHMSA &amp; NTSB Priority Areas</th>
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<td><strong>Pipeline Safety Management Systems</strong></td>
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<td>• Co-Developed Recommended Practice</td>
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<td>• Aggressive Industry Implementation</td>
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<td><strong>Integrity Management</strong></td>
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<td>• RPs on Cracking, Leak Detection</td>
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Online Resources

- www.aopl.org
- www.aopl.org/safety
- www.aopl.org/emergencyresponse
- www.api.org
- www.pipelinesms.org