Panel 1: National Perspectives on Key Technical Challenges

Moderator:

Linda Daugherty
Deputy Associate Administrator for Pipeline Policy & Programs, DOT/PHMSA

National Perspective on Key Technical Challenges

- Thank You to the Panelists:
  - Tom Stemrich, Wisconsin Public Service
  - David Pearson, Colonial Pipeline (Hazardous Liquid)
  - Eric Amundsen, Energy Transfer (Gas Transmission)
  - Lori Traweek, American Gas Association (Gas Distribution)

National Perspective on Key Technical Challenges

- Past three years – a lot of incidents with very different technical issues.
  - San Bruno, CA
  - Marshal, MI
  - Allentown & Philadelphia, PA
  - Etc.
- Resulted in many drivers pushing in different directions.

National Perspective on Key Technical Challenges

- Pipeline Safety, Regulatory Certainty, and Job Creation Act of 2011
- 35-40 mandates
- Multiple technical studies
- Regulatory direction (needs technical/reality check)

National Perspective on Key Technical Challenges

- **National Transportation Safety Board (NTSB) recommendations:**
  - 17 from San Bruno (13 to PHMSA, 4 to Secretary)
  - 10 Enbridge (8 to PHMSA, 2 to Secretary)
  - 1 railroad incident
- Other investigations underway.

National Perspective on Key Technical Challenges

- **Office of Inspector General**
  - 9 recommendations relating to hazardous liquid integrity management audit
  - Ongoing Audit of Federal Oversight of State Programs
- **General Accounting Office**
  - 2 recommendations relating to unregulated gathering pipelines

Approximately 75 – 80 mandates or recommendations

And many of these have technical challenges!

National Perspective on Key Technical Challenges

The challenges we must address:

- MAOP Confirmation (grandfather clause)
- Cast iron, high risk infrastructure, plastic pipe inventory
- Valves (spacing, automatic shut down, remote control, leak detection, excess flow)
- Depth of cover, subsidence, land movement,
- Leak detection, emergency response, control room management - alarms
- Dilbit transportation by pipelines, non-petroleum hazardous liquid pipeline
- Seismicity, pipe transportation, cracks, damage prevention
- IMP and HCA expansion

National Perspective on Key Technical Challenges

Issues we discuss or are asked about:

- Pressure test issues – pressure reversal and standard definition of a “spike” test
- How long is a hydotest valid?
- Reasonable pipe life estimate? When is enough enough? Bandaids on bandaids?
- Can we compare ILI results to actual performance (failure) information?
- Cracking on gas lines => hvls => liquids
- Construction techniques, QMS for new pipe
- Fitness for Service?
- Impact of Climate Change on Pipelines?

National Perspective on Key Technical Challenges

- IMP 2.0
  - 2012 ends the baseline period of transmission Integrity Management, and 2013 will bring serious reconsideration of the IMP framework and seek to identify/fill gaps and soft spots
- Risk assessment challenges
- Interactive threats

National Perspective on Key Technical Challenges

- Managing the Nation's Energy Infrastructure
  - Assure new pipe is manufactured and installed correctly.
    - Many new lines related to shale gas/liquids.
  - Prevent problems through good maintenance and threat mitigation.
  - Identify and address risks before problems occur
    - High risk infrastructure must be addressed.

Morning Break

Reconvening at 10AM