

Low-Stress Pipelines

Panel Two – June 26th, 2006

Low-Stress Pipelines

- For some large operators, management systems are currently in place.
 - Line Identification, Accident Reporting, Corrosion control, Assessment/IM, Leak Detection, Markers, Damage Prevention and Operator Qualification.
 - Potential incident liability drives minimum operating standards.
 - Many code requirements currently being met.
 - Cost/Benefit not a significant factor.

Low-Stress Pipelines

- For other operators:
 - Larger diameter, higher flow lines present greatest risk.
 - Proposed requirements will adequately address concerns regarding releases.
 - Identification: A necessary first step.
 - Accident Reporting: Communicates information.
 - Corrosion Control: Cathodic Protection, pigging and chemical treatment in order of ascending cost and decreasing benefit.

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- Other Operators – cont.
 - Proposed requirements – cont.
 - Assessment: In Line Inspection provides valuable information but at significant cost (trap extensions, tool cost, etc.). Pressure testing is less costly.
 - Leak Detection: Meter in – meter out, meter to tank, line patrol can provide operating information over varying time periods.
 - Markers: Critical for damage prevention at modest cost.
 - Damage Prevention: One-call and other liaison programs cost little for much benefit.

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- Other Operators – cont.
 - Proposed requirements – cont.
 - Operator Qualification: Low-stress lines limited to Abnormal Operating Conditions only.
 - Cost/Benefits
 - Integrity assessments are largest concern due to significant cost.
 - Metering installations are capital intensive, especially for larger flow rates.
 - Cathodic Protection installations require modest capital outlay.
 - Benefit measured by avoided costs.