
Pipeline R&D Forum – Internal Corrosion Direct Assessment

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Need for ICDA

- Maintain Deliverability
- Un-piggable Pipelines
- Short Laterals
- Maintain Pipeline Integrity

Current Status

- Dry Gas ICDA
 - NACE Standard – Re-ballot
 - Validation
- Wet Gas ICDA
 - NACE Standard under Development
- Liquid Petroleum ICDA
 - NACE Standard under Development

ICDA Challenges – Dry Gas

- Methodology Immature
- Operator Awareness
- Standard vs. Regulatory Requirements
- Validation

ICDA Challenges – Dry Gas (cont.)

- Data Uncertainties
- Where do we Dig?
 - Length of excavation
 - Quality of elevation data
 - Lack of critical angle
- Inspection Techniques
- Corrosion Rate Calculation

ICDA Challenges – Wet Gas and Liquids

- Early Phase of Development
- Probabilistic Modeling
- Methodology
- Validation