

Inspection Methods

Discussion Panel

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Inspection Methods

- ASME B31.8S Assessment Methods
- Status of Inspection Standards
- Review of NPRM Inspection Methods
- Key Issues or Gaps

Inspection Methods

- ASME B31.8S Section 6 Integrity Assessment
 - In-line Inspection
 - Pressure Test
 - Direct Assessment
 - ECDA
 - ICDA

Inspection methods deemed equivalent for applicable threats

Inspection Methods

- Status of Inspection Standards
 - ILI
 - API 1163 covers inspection system – in process
 - ASNT covers NDT personnel – in process
 - NACE RP-0102 execution of run - complete
 - Pressure test for new and existing lines included in ASME B31.8

Status of Inspection Standards

- ECDA - NACE RP-0502 Complete
- ICDA
 - Industry 2001/2 R&D developed “Dry Gas” ICDA methodology
 - ICDA Standard underway (NACE TG293)
 - ASME B31.8S discusses language for NACE ICDA
 - Nov 2002 NACE balloted “Control of Internal Corrosion in Steel Pipelines and Piping Systems” - TG 038 resolving questions
 - 2003 Activities & R&D
 - Validation of Dry Gas ICDA
 - Development of Wet Gas ICDA
- SCCDA
 - NACE Standard underway

Inspection Methods

- Review of NPRM
 - Threat Identification
 - Time dependent/Stable/Time Independent/Human Error
 - Assessment Tools
 - ILI
 - Pressure Test
 - DA - ECDA/ICDA/SCCDA/CDA
 - Other
 - Assessment of Particular Threats
 - 3rd party damage
 - Cyclic Fatigue
 - Manufacturing and Construction
 - ERW Pipe
 - Corrosion

Inspection Methods

- Key Issues or Gaps
 - Geometry inspection tool required under certain conditions to assess 3rd party damage threat
 - Incorporate NACE RP0502 (ECDA) by reference
 - ECDA/ICDA not recognized as equivalent inspection method - align baseline intervals at 10 years for ILI, Pressure and ECDA
 - ECDA available as a prior inspection method provided all the required elements where performed
 - CDA for all 7 year reevaluations for all baseline techniques
 - Confirmatory Direct Assessment – What is the intent of? How can it be used effectively?

Inspection Methods

Audience Questions?