

ILI TOOL TOLERANCE

Panel Discussion

**Consideration of
Sizing Accuracy in
Making Excavation
and Repair Decisions**

**Chris McLaren,
PHMSA, SW Region**



ILI TOOL TOLERANCE Considerations

- ILI Contracts Should Address Tool Specifications
 - Likelihood of Detection
 - Sizing Accuracy
 - Length
 - Depth
 - Width
 - “River Bottom” Profile if RSTRENG Used for Pf



ILI TOOL TOLERANCE Considerations

- Integrate Information and Data
 - Tool Sizing Accuracy Used in Conjunction with Other Sources of Error or Uncertainty
 - Assimilate and consider all known metadata when making excavation/repair decisions
 - Analyze Correlation Between Length and Depth Sizing Accuracy



ILI TOOL TOLERANCE Considerations

- Sizing Accuracy Most Critical for Anomalies at or Near “Immediate” Criteria
- Assure All Actionable Defects Are Promptly Acted Upon
- To Assure Pipeline Integrity, Operators Must Account for Defect Sizing Accuracy
 - Defects Called Near 80% wt May Actually Be >80%
 - FPR Near MAOP May Actually Be Less Than MAOP



ILI TOOL TOLERANCE Considerations

- Critique Tool Performance
- Adjust Integrity Decision Criteria Based on Verified Tool Performance
 - Confirmation Digs
 - Unity Plots
 - POE Analysis



ILI TOOL TOLERANCE PANEL DISCUSSION

Individual Panelist Presentations

