ILI TOOL TOLERANCE

Consideration of Sizing Accuracy in Making Excavation and Repair Decisions

Chris Hoidal, PHMSA Moderator

Panel

- Chris Hoidal, PHMSA Western Region Director (Moderator)
- Chris McLaren, PHMSA Southwest Region
- Stephen Westwood (BJ Technologies)
- Mark Stephens (CFER)
- Sergio Limon-Tapia (Williams)
- Chris Whitney (El Paso)



IMPACT OF UNDER-CALLED DEFECT DIMENSIONS

- Accuracy of Pf depends on accuracy of predicted defect dimensions
- Typical MFL ILI tool sizing accuracy specifications (80 - 90% Confidence)
 - Depth: ± 10% t
 - Length: ± 0.8 in



- Panel to discuss prudent approaches to take sizing accuracy into account when making integrity-related decisions in response to ILI
- Techniques for considering sizing accuracy



- Identify Circumstances Where Sizing Accuracy Most Critical
- Dealing with Over-called Defect Sizes and Unnecessary Digs



Discuss Practical Approaches

- Add Tool Accuracy Spec to As-Called Defect Size
- Comparison w/ As-found (Unity plots)
- Statistical Approaches Such as Probability of Exceedance (POE)
- Confirmation Digs
- Comparison with Previous ILI Data

