Category 2 Public Meeting with NEI on the Implications of the Wolf Creek Dissimilar Metal Weld Inspections



Ted Sullivan, NRR May 8, 2007





- Industry will present a matrix of potential modeling cases for the Phase II sensitivity, benchmarking, and validation calculations in their Advanced Finite Element Fracture Mechanics Analyses
- NRC staff will provide comments or concerns regarding their modeling plans



Public Participation

- This is a Category 2 meeting
- The public is invited to participate in this meeting by discussing regulatory issues with the NRC at designated times during the meeting





- Introductions (Industry & NRC)
- Status of industry work & Response to April 4, 2007 NRC letter (Industry)
- Status of NRC Confirmatory Research (NRC)
- Proposed Case Matrix (Industry)
 - Plant Specific Loads and Geometries
 - Proposed Weld Residual Stresses
 - Summary of May 1 Meeting
 - Fabrication steps affecting WRS
 - Repairs
 - Crack Growth Rates
 - Single Crack Growth Calculations
 - Axisymmetric WRS field
 - Axisymmetric + Repair WRS field
 - Multiple Crack Growth Calculations

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- Additional topics:
 - Critical Crack Size Calculations (Industry)
 - Validation studies and WRS mockups (Industry)
 - Benchmarking K Solutions for the Advanced FEA Calculations (Industry)
 - Leak-rate Calculations (Industry)
- Plans for next meeting(s) (Industry & NRC)
 - Alloy 600 Conference
- Meeting Summary & Conclusions (Industry & NRC)