

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



# U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

*Protecting People and the Environment*

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## Purpose

- 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

- 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)