

8th PINC Meeting
Feb 5-6, 2007

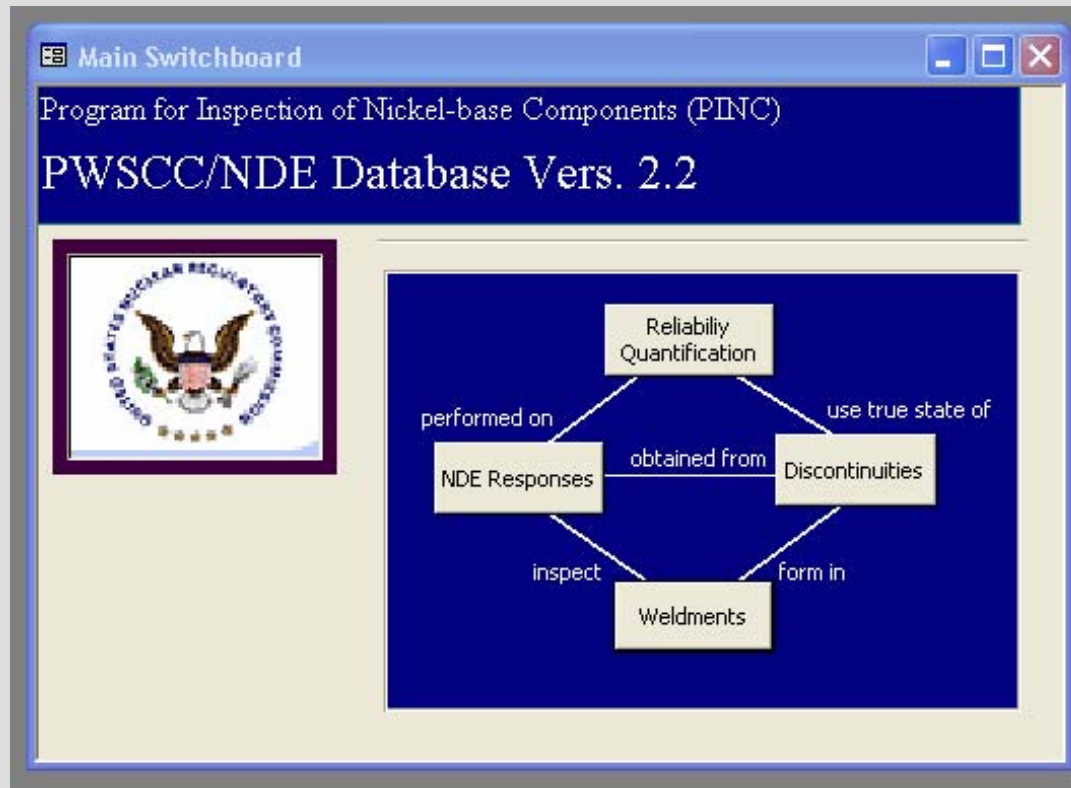
TG-Atlas
Atlas Database
Version 2.4

Presented by
George J. Schuster

Atlas Database Presentation Outline

- ▶ Introduction to Version 2.4
- ▶ Field Degradation Database
- ▶ PINC Round Robin Database
- ▶ PWSCC vs. Manufactured Cracks
- ▶ Demonstration

PINC Atlas – PWSCC/NDE Relational Database Introduction to Version 2.4



- ▶ DMW, CRDM, BMIs
- ▶ OHI 3 and NA 2 degradation and NDE responses
- ▶ PWSCC and manufactured cracks
- ▶ NDE responses from parametric study
- ▶ NDE effectiveness from blind tests

NDE Responses **Nozzle 31 North Anna 2**

- ▶ Visual Testing Completed
- ▶ Penetrant Testing Completed
- ▶ Ultrasonic Testing Completed
- ▶ Eddy Current Testing Completed
- ▶ Sectioning started

Atlas Database Mid-Thickness Round Robin Database

- ▶ Procedures and Technical Documents being entered (DAG version only)
- ▶ Weldments and Product Forms Entered
- ▶ Discontinuities being entered (DAG version only)
- ▶ NDE response database designed and ready for data entry

NDE Responses PWSCC, Manufactured Cracks, and Fabrication Flaws

- ▶ Weld Solidification Crack Received
- ▶ Thermal Fatigue Crack Received
- ▶ Laboratory Grown SCC Received
- ▶ Eddy Current Responses Recorded
- ▶ Comparison to PWSCC Completed
- ▶ Fabrication Flaw Responses in WNP-1 Material Started

Atlas Database Summary

- ▶ NDE Responses from PWSCC in OHI 3 and North Anna 2 CRDM being entered into the Atlas
- ▶ Test Block data being entered into the Atlas
- ▶ NDE Responses from Manufactured Cracks being entered into the Atlas
- ▶ Atlas is ready for Round Robin Test data
- ▶ File Download Location is provided
- ▶ Password protected

Atlas Database Future Work

- ▶ Crack surface morphology quantification for eddy current testing
- ▶ Fabrication flaw discontinuity and NDE response data entry
- ▶ Data entry for round robin test results
- ▶ SKi Reports:
- ▶ VTT Reports:
- ▶ PINC presentations