



MC118

Environmentally-Assisted Fatigue Analysis, Monitoring, and Management of Nuclear Plant Components

Day 1

- Introduction to Fatigue
- Regulatory Issues and Requirements
- Environmentally-Assisted Fatigue Analysis Procedures and Techniques
- Case Study 1: Bettis Pipe Tests
- Elements of a Fatigue Management Program

Day 2

- Case Study 2: Thermal Stratified PWR Feedwater Nozzle
- Case Study 3: BWR Feedwater Nozzle
- Case Study 4: PWR Charging Nozzle with High Thermal Gradients
- Case Study 5: PWR Surge Line and Pressurizer with Thermal Stratification
- Case Study 6: Stratification Cycling in Normally Stagnant Branch Lines
- Case Study 7: Fatigue Analysis of Weld Overlaid Components
- Case Study 8: Postulating High Energy Line Break Locations
- Case Study 9: Flaw Tolerance Analysis of Surge Line – An Industry First
- Summary and Wrap-up