



---

**United States Nuclear Regulatory Commission**

---

## Workshop

# Stress Corrosion Cracking & Nondestructive Examination of Dissimilar Metal Welds and Alloy 600

SMiRT 16 Conference

Deborah A. Jackson, Steven Doctor  
Office of Nuclear Regulatory Research

August 15, 2001



## United States Nuclear Regulatory Commission

# Workshop Objectives

- Discuss
  - **significant events**
    - V.C Summer, Ringhals, Oconee
  - **NDE deficiencies in detecting SCC**
  - **NDE capabilities on (CRDMs)**
  - **USNRC approach to address this issue**
  - **development of an international cooperative on these issues**
- Identify deficiencies in information available in this area such as crack initiation sites, crack growth rates



## United States Nuclear Regulatory Commission

# Stress Corrosion Cracking & NDE of Dissimilar Metal Welds & Alloy 600

- Francois Champigny, Electricite de France
- Klaus-Jurgen Metzner, E. ON Energie AG
- Carlos Cueto-Felgueroso, Tecnatom, S.A



## United States Nuclear Regulatory Commission

# Recent Events

## V.C. Summer, Ringhals, & Oconee

- Lars Skanberg, Swedish Nuclear Inspectorate
- Steven Doctor, Pacific Northwest National Laboratory
- Keith Wichman, USNRC Office of Nuclear Regulatory Regulation



## United States Nuclear Regulatory Commission

# US Approach to Address Recent PWSCC Events

- Frank Ammirato, Electric Power Research Institute (EPRI)
- Larry Mathews, Chairman, Materials Reliability Program (MRP)
- Edwin Hackett, USNRC Office of Nuclear Regulatory Research
- Allen Hiser, USNRC Office of Nuclear Regulatory Regulation



## United States Nuclear Regulatory Commission

### International Research Cooperative Program

- Deborah Jackson, USNRC Office of Nuclear Regulatory Research