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Steam Generator and Materials Issues
Session W6

Role of Research in Materials Issues

Michael Mayfield
Director, Division of Engineering Technology
Office of Nuclear Regulatory Research, USNRC
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Role of Research in Materials Issues

- Research plays two key roles
  - Provide data, analysis methods and inspection processes to assess specific issues
  - Provide forward-looking assessment of degradation potential
- Similar roles for government, industry, and international research organizations

Role of Research in Materials Issues

- NRC Research continues involvement in assessing issues
  - SGT degradation and inspection methods
  - Cracking of Inconel alloys and welds
  - Nondestructive examination procedures
  - Proposed repair and mitigation methods
  - Assess implications of operating experience

Role of Research in Materials Issues

- NRC Research expanding efforts in identifying issues
  - Cracking potential for replacement alloys
  - Basic data on Boric Acid corrosion
  - Advanced inspection techniques
  - General assessment of environmental effects on LWR materials

Role of Research in Materials Issues

- NRC, Industry and International Community have a shared interest
- Numerous cooperative programs underway
- NRC seeking to expand these activities to provide best opportunity for early identification and resolution of degradation issues