

RIC 2003

Steam Generator and Materials Issues

Session W6

Role of Research in Materials Issues

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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