## Regulatory Perspective on Corrosion of Alloy 22

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# NRC Approach to Regulatory Reviews

- Risk informed approach focuses on safety attributes of repository system
- Confirmatory and exploratory investigations in key areas with limited data
- Performance and safety assessments to assist understanding
- Consideration of all publicly available information

### **Application to Corrosion**

- Near-Field Chemical Environment (Roberto Pabalan)
- Factors Influencing Uniform and Localized Corrosion of Alloy 22 (Darrell Dunn)
- Sensitivity Analyses of Waste Package (Tae Ahn)

#### Regulatory Review

 Review will focus on DOE's design and technical basis as described in its license application

 As the applicant, DOE has the responsibility to support and defend its claims for the performance of a potential repository at Yucca Mountain

### Regulatory Review (cont.)

- NRC will use its experience and understanding to inform the review
- NRC continues to prepare for a potential license application
- NRC conclusions regarding performance of a potential repository at Yucca Mountain (e.g., corrosion of waste package) will be made based upon the licensing review