



Introduction to Engineered Barrier System Discussions

*182nd Advisory Committee on Nuclear Waste and Materials Meeting
September 18, 2007*

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Today's Goals

Summarize Important Processes for

- Waste package & drip shield corrosion
 - Juvenile failure of waste packages
 - Waste form dissolution
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- Discuss Process-Level Uncertainties

 - Provide Insights on Risk

 - Background for October TPA Discussions

- High Significance to Performance
 - Passive film persistence
- Medium Significance to Performance
 - Localized & crevice corrosion
 - Drip shield integrity
 - Waste form degradation rate
- Low Significance to Performance
 - Juvenile failure of waste package

Next Steps

- Approve and Release TPA 5.1
 - Users guide
 - Code
- October 2007 ACNW&M Meeting
 - Overview of changes from TPA 4.1j to TPA 5.1

Disclaimer: The NRC staff views expressed herein are preliminary and do not constitute a final judgment or determination for the matters addressed or of the acceptability of a license application for a geologic repository at Yucca Mountain.