

THE TOTAL SYSTEM PERFORMANCE ASSESSMENT AND INTEGRATION IRSR: CURRENT STATUS AND FUTURE DEVELOPMENTS

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Performance Assessment for Yucca Mountain**

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PRESENTATION GOALS

- **Sum Up the Status of TSPAI Subissue Resolution and Provide Preliminary Feedback on DOE Commitments to Submit Needed Information**
- **Provide a Description of What to Expect in Revision 3 of the TSPAI IRSR**
- **Kickoff and Moderate Concluding Discussions**

STATUS OF SUBISSUE RESOLUTION

- **System Description and Demonstration of Multiple Barriers (Open)**
 - **PA Results Must Be Traceable From Abstractions to Process Models to Supporting Analyses to Original Data**
 - **The Inner Workings of the PA Must Be Transparent**
 - **The Capability of Multiple Barriers Must Be Documented and Supported by PA**
- **Scenario Analysis (Open)**
 - **Identification of Processes and Events That May Affect Repository Performance and Exclusion of Those That Are Unlikely to Affect Repository Performance**

STATUS OF SUBISSUE RESOLUTION (Continued)

- **Model Abstraction (Open)**
 - **Adequately Model and Properly Integrate Relevant Feps Into the PA to Ensure a Comprehensive Analysis**
- **Demonstration of the Overall Performance Objective (Open)**
 - **Provide Convincing Evidence That the PA Methods Used to Calculate the Overall Performance Objective Are Credible**

PATH TO SUBISSUE RESOLUTION

- **System Description and Demonstration of Multiple Barriers:**
 - **Revision 3 Will Include Newly Developed ACs for Multiple Barriers**
 - **Transparency & Traceability Can be Resolved Before LA**
 - **Multiple Barriers Can Be Resolved Before LA**
- **Scenario Analysis:**
 - **Revision 3 Will Summarize NRC Interpretation of DOE Approach**
 - **Await Receipt of Final FEP AMRs**
 - **Can Resolve Methodology Before LA**

PATH TO SUBISSUE RESOLUTION (Continued)

- **Model Abstraction**
 - **Revision 3 Will Summarize NRC Interpretation of DOE Approach**
 - **Our Plan is Not to Close Until the Process KTI Subissues are Closed**
- **Demonstration of the Overall Performance Objective:**
 - **Revision 3 Will Summarize NRC Interpretation of DOE Approach**
 - **Revision 3 Will Include Newly Developed ACs**