

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

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# PRESENTATION GOALS

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- **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

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- **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)**

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- **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

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- **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)**

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- **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**