

**DOE/NRC TECHNICAL EXCHANGE ON TOTAL SYSTEM  
PERFORMANCE ASSESSMENTS (TSPA) FOR YUCCA MOUNTAIN  
San Antonio, Texas  
June 6 and 7, 2000**

**OBJECTIVES:**

To discuss and review progress on the Total System Performance Assessment – Site Recommendation (TSPA-SR), review the TSPA-SR models, and discuss the status of issue resolution for the Total System Performance Assessment and Integration (TSPAI) Key Technical Issue.

**TUESDAY – JUNE 6, 2000**

8:30 AM	Introduction/Objectives/Logistics (15 minutes) - Objectives of the Technical Exchange	DOE/NRC Dockery
8:45	Introduction/Relationship of the TSPAI Key Technical Issue to Process Key Technical Issues (20 minutes)	Firth
<b><u>ISSUE RESOLUTION: SCENARIO ANALYSIS</u></b>		
9:05	Status of Resolution in Scenario Analysis: Methodology and TSPAI Issues (30 minutes)	Mohanty
9:35	TSPA-SR (30 minutes) - Overall Process and Approach - Reference Design - Traceability/Control of Information	McNeish
10:05	Break (15 minutes)	
10:20	FEPs Approach, Process, and Methodology (30 minutes) - Documentation of Methodology - Comprehensiveness - Scenario analysis - Screening argument and screening criteria - Status of screening and scenario selection - Schedule	Swift
10:50	Current Status of Implementation (30 minutes) - Database revisions - Traceability - Future updates	Freeze
11:20	DISCUSSION: Scenario Analysis Issue Resolution (40 minutes)	All
12:00	Lunch Break (90 minutes)	

### ISSUE RESOLUTION: MODEL ABSTRACTION

1:30	Status of Resolution in Model Abstraction: TSPAI Issues (30 minutes)	Esh
2:00	TSPA-SR Models <ul style="list-style-type: none"><li>- Unsaturated Zone Flow and Transport (20 minutes)</li><li>- Engineered Barrier System Environment<ul style="list-style-type: none"><li>▪ Thermal Hydrology (20 minutes)</li><li>▪ Chemical Environments (20 minutes)</li></ul></li><li>- Waste Package (20 minutes)</li></ul>	Wilson Francis Nowak Lee
3:20	Break (15 minutes)	
3:35	TSPA-SR Models <ul style="list-style-type: none"><li>- Waste Form (20 minutes)</li><li>- Saturated Zone Flow and Transport/Biosphere (20 minutes)</li><li>- Disruptive Events (20 minutes)</li></ul>	Rechard Arnold Sauer
4:35	DISCUSSION: Model Abstraction Issue Resolution (30 minutes)	All
5:05	Observer Comments	
5:30	Adjourn	

### WEDNESDAY – JUNE 7, 2000

#### ISSUE RESOLUTION: MULTIPLE BARRIERS AND OVERALL PERFORMANCE OBJECTIVE

8:30 AM	Status of Resolution of Multiple Barrier Performance Objective and the Overall Performance Objective (30 minutes)	McCartin/Weldy
9:00	TSPA Overview (30 minutes) <ul style="list-style-type: none"><li>- Overall Performance Measure</li><li>- Verification</li></ul>	McNeish
9:30	TSPA-SR Model (60 minutes) <ul style="list-style-type: none"><li>- Integration of components</li><li>- Information flow</li><li>- Uncertainty</li></ul>	Sevougian
10:30	Break (15 minutes)	
10:45	Breakout/Demo (30 minutes)	
11:15	DISCUSSION: Overall Performance Objective Issue Resolution (30 minutes)	
11:45	Lunch (90 minutes)	
1:15	RSS4 (30 minutes)	VanLuik

1:45	Uncertainty/Sensitivity (30 minutes)	Mishra
2:15	DOE Approach to Demonstrating Multiple Barriers (30 minutes) - Sensitivity/Barrier Importance Analysis	Andrews
2:45	DISCUSSION: Multiple Barriers Issue Resolution (30 minutes)	All
3:15	Break (15 minutes)	
3:30	Human Intrusion (25 minutes)	Freeze
3:55	TSPAI IRSR Rev. 2 Questions/Comments/Issues (30 minutes) - Summarize approach to resolving KTI issues - IRSR Tracking Database Overview	Dockery
4:25	TSPAI Issue Resolution Status Report, Revision 2 and Next Steps (15 minutes)	Wittmeyer
4:40	DISCUSSION: Human Intrusion and TSPAI IRSR Issue Resolution (20 minutes)	All
5:00	Caucus (30 minutes)	
6:00	Closing Remarks	DOE/NRC
6:15	Adjourn	