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
	ISSUE RESOLUTION: SCENARIO ANALYSIS	
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)	

1:30	Status of Resolution in Model Abstraction: TSPAI Issues (30 minutes)	Esh

2:00	TSPA-SR Models	
	- Unsaturated Zone Flow and Transport (20 minutes)	Wilson
	- Engineered Barrier System Environment	
	▪ Thermal Hydrology (20 minutes)	Francis
	▪ Chemical Environments (20 minutes)	Nowak
	- Waste Package (20 minutes)	Lee

3:20	Break (15 minutes)	

3:35	TSPA-SR Models	
	- Waste Form (20 minutes)	Rechard
	- Saturated Zone Flow and Transport/Biosphere (20 minutes)	Arnold
	- Disruptive Events (20 minutes)	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)	McNeish
	- Overall Performance Measure	
	- Verification	

9:30	TSPA-SR Model (60 minutes)	Sevougian
	- Integration of components	
	- Information flow	
	- Uncertainty	

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	