

**PROPOSED AGENDA**  
**DOE/NRC Technical Exchange on**  
**Total System Performance Assessments (TSPA) for Yucca Mountain**

**November 5-6, 1997**  
**8:30am - 5:30 pm (PST)**

Locations:  
DOE Summerlin I Facility, 1551 Hillshire Drive, Atrium Room  
North Las Vegas, Nevada

NRC Headquarters - Two White Flint North  
11555 Rockville Pike, Room T-2B5 (videoconference room)  
Rockville, Maryland

**Wednesday, November 5, 1997**

- **Opening Remarks**
- **Saturated Zone Hydrology**
  - Results/conclusions from the DOE expert elicitation - Insights related to matrix diffusion and/or vertical mixing
  - C-Well Complex test results: Alternative interpretations and process model incorporation
  - Matrix diffusion/modeling assumptions for the TSPA-VA
  - NRC views on evidence of fracture flow at the site
- **Treatment of Disruptive Events**
  - Overview of DOE's Features-Events-Processes approach to consequence analyses for non-mutually exclusive events
  - Updates on DOE approach to the treatment of disruptive events for the TSPA-VA, including treatment of criticality
  - NRC approach to the treatment of disruptive events in IPA Phase 3 consequence modeling: Assumptions for volcanism, faulting, and seismicity
  - NRC pre-VA views

GET COPY of SOURCE  
TEAM MODELING  
HANDOUT FROM TSP

2B5

**Thursday, November 6, 1997**

- **Waste Package Degradation**
  - Results/conclusions from the DOE expert elicitation
  - DOE views on how waste is being released from the waste package container
  - DOE approach for the TSPA-VA
  - Key assumptions and approach NRC's waste package modeling in IPA Phase 3
- **Biosphere Evaluations**
  - Results of recent DOE Biosphere Survey
  - DOE preliminary views on modeling dilution at pumping well
  - DOE approach for the TSPA-VA - Utilization of Biosphere Survey Results
  - NRC treatment of biosphere issues in IPA Phase 3
    - Dilution assumptions
    - Regional drilling practice survey, including pumping assumptions
    - Dose Conversion Factors
- **Closing Remarks**

ONLY ATTENDED  
THIS PART ON

2/m-20

## November 1997 Technical Exchange on TSPA-VA, Part 2

DOE Summerlin  
Las Vegas, Nevada

November 5, 1997

- **Opening Remarks**
- **Saturated Zone Hydrology (am)**
  - Results/conclusions from the DOE expert elicitation — Insights related to matrix diffusion and/or vertical mixing (DOE/Arnold)
  - C-Well Complex test results: Alternative interpretations and process model incorporation (DOE/Robinson; USGS/tbd)
  - Matrix diffusion/modeling assumptions for the TSPA-VA (DOE/Robinson)
  - NRC views on evidence of fracture flow at the site (NRC/Coleman and McCartin; CNWRA/Murphy and Wittmeyer)
  - Discussion/Summary
- **Lunch**
- **Treatment of Disruptive Events (pm)**
  - Overview of DOE's FEPs approach to consequence analyses for non-mutually exclusive events (DOE/Barnard and Barr)
  - Updates on DOE approach to the treatment of disruptive events for the TSPA-VA, including treatment of criticality (DOE/Barnard, O'Leary, Perry, Valentine)
  - NRC approach to the treatment of disruptive events in IPA Phase 3 consequence modeling: Assumptions for volcanism, faulting, and seismicity (NRC/McCartin)<sup>1</sup>
  - NRC pre-VA views (NRC/McCartin and Eisenberg)
  - Discussion/Summary

November 6, 1997

- **Waste Package Degradation (am)**
  - Results/conclusions from the DOE expert elicitation (DOE/Stahl)
  - DOE views on how waste is being released from the waste package canister (what assumptions are driving DOE analyses) — Crevice Corrosion and Pitting Modeling (DOE/Farmer)
  - DOE approach for the TSPA-VA (DOE/Lee)
  - NRC comments on DOE's expert elicitation (NRC/tbd)
  - NRC pre-VA views (NRC/McCartin)
  - Discussion/Summary
- **Lunch**

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<sup>1</sup> No results will be presented. Process-level modelers, though, will be available to answer questions related to volcanism (NRC/Trapp), faulting (NRC/Justus; CNWRA/Stamatakis), and seismicity (NRC/Justus; CNWRA/Stamatakis).

- **Biosphere Evaluations (*pm*)**

- Results of recent DOE Biosphere Survey (DOE/Swanson)
- DOE preliminary views on modeling dilution at pumping well (DOE/Arnold)
- DOE approach for the TSPA-VA – Utilization of Biosphere Survey Results (DOE/Tappen)
- NRC treatment of biosphere issues in IPA Phase 3 (NRC/Lee and McKinney)
  - Dilution assumptions (Baca)
  - Pumping/mixing assumptions (McCartin/Codell)
  - Regional drilling practice survey (CNWRA/Wittmeyer)
  - YM-specific Dose Conversion Factors (CNWRA/LaPlante)
- NRC pre-VA views (McCartin)
- Discussion/Summary

- **Conclusions/Summary**

**TBDs**

- *Key assumptions and approach NRC's waste package modeling in IPA Phase 3, including the treatment of source term (NRC/Codell)*
- *CNWRA galvanic coupling investigations (CNWRA/Cragolino)*