



UNITED STATES  
NUCLEAR WASTE TECHNICAL REVIEW BOARD  
2300 Clarendon Boulevard, Suite 1300  
Arlington, VA 22201

## Agenda

### Summer Board Meeting

Crowne Plaza  
4255 S. Paradise Road  
Las Vegas, NV 89109  
Tel: 702-369-4400  
Fax: 702-369-3770

June 25-26, 1997

**Ballroom A & B**

#### Wednesday, June 25

- 8:00 a.m.**            **Welcome and introductory remarks**  
Jared Cohon, chair  
Nuclear Waste Technical Review Board (NWTRB)
- 8:10 a.m.**            **Status of the program and the viability assessment (VA)**  
[Lake Barrett](#), acting director  
Office of Civilian Radioactive Waste Management (OCRWM)  
8:25 a.m.            *Questions/discussion*
- 8:40 a.m.**            **VA - description of the products and schedule for completion**  
[Steve Brocoum](#), OCRWM  
8:55 a.m.            *Questions/discussion*
- 9:10 a.m.**            **Comments on VA from the state of Nevada**  
Bob Loux, state of Nevada  
9:25 a.m.            *Questions/discussion*
- 9:40 a.m.**            **Break (15 min)**

PERFORMANCE AND UNCERTAINTIES OF THE REPOSITORY DESIGN AND THE  
ENGINEERED BARRIER SYSTEM:

- 9:55 a.m.**            **Session introduction**  
Dan Bullen, NWTRB

*June 25 - continued*

- 10:00 a.m.**            **The OCRWM waste containment and isolation strategy**  
[Jean Younker](#), M&O (TRW Environmental Safety Systems, Inc.)
- Review of the OCRWM/management and operating contractor (M&O) waste containment and isolation strategy.
  - How does it take into account the large uncertainty in the percolation flux?
- 10:20 a.m.*            *Questions/discussion*
- 10:30 a.m.**            **Performance assessment viewpoint on the waste package performance**  
[Bob Andrews](#), M&O (INTERA)
- Major issues and uncertainties in predicting the in-drift environment and waste package performance
- 10:45 a.m.*            *Questions/discussion*
- 10:55 a.m.**            **Repository design and operations**  
[Richard Snell](#), M&O (TRW Environmental Safety Systems, Inc.)
- Review of the present design and operations of the proposed repository.
  - How will the large uncertainty in the percolation flux impact this design?
  - What are the alternative design concepts?
- 11:15 a.m.*            *Questions/discussion*
- 11:30 a.m.**            **Waste package design and materials**  
[Dave Stahl](#), M&O (B&W Fuel Company)
- Major issues and uncertainties with the waste package design
- 11:45 a.m.*            *Questions/discussion*
- 11:55 a.m.**            **Behavior of cementitious materials**  
[Della Roy](#), Penn State University
- Major issues and uncertainties on the near field environment due to use of cementitious materials
- 12:20 p.m.*            *Questions/discussion*
- 12:30 p.m.**            **LUNCH (1 hour)**
- REPOSITORY PERFORMANCE AND UNCERTAINTIES IN THE NATURAL SYSTEM**
- 1:30 p.m.**            **Session introduction**  
 Debra Knopman, NWTRB

*June 25 - continued*

- 1:35 p.m.**                    **Performance assessment viewpoint on the natural barriers**  
[Abe Van Luik](#), DOE  
 • Key technical issues and remaining problem areas for total system performance assessment–viability assessment (TSPA-VA).  
 • Significant enhancements/changes for TSPA-VA.  
*1:50 p.m.*                    *Questions/discussion*
- 2:05 p.m.**                    **The process and objectives of the unsaturated zone expert elicitation project**  
[Kevin Coppersmith](#), Geomatrix  
*2:15 p.m.*                    *Questions/discussion*
- 2:25 p.m.**                    **Infiltration, the unsaturated zone model, and expert elicitation results**  
[Bo Bodvarsson](#), M&O (Lawrence Berkeley National Laboratory)  
*2:45 p.m.*                    *Questions/discussion*
- 2:55 p.m.**                    **Break (15 min)**
- 3:10 p.m.**                    **Expert viewpoint on the process and results**  
[Shlomo Neuman](#), University of Arizona  
*3:35 p.m.*                    *Questions/discussion*
- 3:50 p.m.**                    **Expert viewpoint on the process and results**  
[Gaylon Campbell](#), Washington State University  
*4:15 p.m.*                    *Questions/discussion*
- 4:30 p.m.**                    **Lessons learned from the expert elicitation**  
[Bob Andrews](#) (M&O) and [Bo Bodvarsson](#) (M&O)  
 • Who are the intended customers of this information?  
 • How will this elicited information be used in TSPA-VA?  
*4:40 p.m.*                    *Questions/discussion*
- 5:00 p.m.**                    **Questions/comments from the public**
- 5:30 p.m.**                    **Adjourn until Thursday 8:00 a.m.**

**Thursday, June 26**

- 8:00 a.m.**                    **Session introduction**  
Priscilla Nelson, NWTRB
- 8:05 a.m.**                    **Saturated zone flow and transport**  
[Dwight Hoxie](#), USGS  
• How YMP is addressing remaining uncertainties of the saturated zone that are important for TSPA  
8:30                              *Questions/discussion*
- 8:50 a.m.**                    **Projected plans and costs of additional work through license application (post-VA)**  
[Jean Younker](#), M&O  
9:05                              *Questions/discussion*
- 9:15 a.m.**                    **Performance confirmation after licensing**  
[Richard Wagner](#), M&O  
9:30                              *Questions/discussion*
- 9:45 a.m.**                    **Plan for developing projected costs of repository construction and operation**  
[Mitch Brodsky](#), DOE  
10:00                             *Questions/discussion*
- 10:15 a.m.**                   **Break (15 min)**
- 10:30 a.m.**                   **East-west tunnel crossing the repository block, planned studies and their objectives**  
[Mike Voegele](#), M&O (Science Applications International Corporation)  
10:45                             *Questions/discussion*
- 11:00 a.m.**                   **Update on scientific activities at Yucca Mountain**  
[Larry Hayes](#), M&O (TRW Environmental Safety Systems, Inc.)  
11:30                             *Questions/discussion*
- 12:00**                           **Comments from the public**
- 12:45 p.m.**                   **Closing comments**  
Jared Cohon, NWTRB
- 1:00 p.m.**                    **Adjourn**