



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

**Tentative Agenda
Fall Meeting
September 14 and 15, 1999**

Developing a Repository Safety Strategy

Radisson Hotel Old Town Alexandria
901 North Fairfax Street
Alexandria, Virginia 22314
Tel: (703) 683-6000

Tuesday, September 14

9:00 a.m. Call to Order
Jared Cohon
Chairman
Nuclear Waste Technical Review Board (NWTRB)

9:05 a.m. Perspectives on the Program
Lake Barrett
Acting Director
Office of Civilian Radioactive Waste Management (OCRWM)

9:20 a.m. Questions and discussion

9:40 a.m. Proposed Environmental Standard for a Yucca Mountain Repository
TBD
Environmental Protection Agency

10:05 a.m. Questions and discussion

10:25 a.m. BREAK

10:35 a.m. Session Chair
Debra Knopman
Member, NWTRB

Perspectives on the Yucca Mountain Project
Stephan Brocoum
Assistant Manager
Office of Licensing and Regulatory Compliance

Yucca Mountain Site Characterization Office (YMSCO)

10:50 a.m. *Questions and discussion*

11:00 a.m. Repository Safety Strategy—Introduction
Abe van Luik
Senior Policy Advisor for Performance Assessment
YMSCO

- Development of a Safety Case
- Confidence and Uncertainty
- Structure of TSPA

11:15 a.m. Questions and discussion

11:30 a.m. Public comments

12:00 noon LUNCH

1:00 p.m. Repository Safety Strategy—Implementation
Michael Voegele
Deputy
Regulatory and Licensing
Science Applications International Corporation, M&O

- Defense-in-Depth
- Barrier Importance Analysis
- Evolution of the Repository Safety Strategy

1:30 p.m. Questions and discussion

2:00 p.m. Repository Safety Strategy—Performance Assessment
Bob Andrews
Manager
Performance Assessment Operations
Duke Engineering, M&O

- Methodology and Assumptions
- Multiple Lines of Evidence (including natural analogs)
- Use of Bounding Analysis

2:40 p.m. Questions and discussion

3:05 p.m. Repository Safety Strategy—Process Model Reports and Analysis Model Reports
Mike Lugo
Manager
Process Model Reports
TRW Environmental Systems, M&O

3:30 p.m. Questions and discussion

- 3:45 p.m.** **Update on Scientific and Technical Investigations**
Mark Peters
Manager
Field Testing and EBS and Repository Design Support Office
Los Alamos National Laboratory
Management and Operating Contractor (M&O)
- Chlorine-36
 - Busted Butte
 - Cross Drift Testing
 - Saturated Zone Investigations
 - Drift-Scale Thermal Tests
 - Waste Package Materials Testing

4:10 p.m. Questions and discussion

- 4:30 p.m.** **Public Comments**

- 5:00 p.m.** **Recess until Wednesday, September 15, 9:00 a.m.**

Wednesday, September 15

- 9:00 a.m.** **Welcome**
Session Chair
Richard Parizek
Member, NWTRB

Repository Safety Strategy—Testing and Analysis for Site Recommendation

- Jean Younker
Deputy Assistant General Manager
TRW Environmental Systems, M&O
- Natural and Engineered Subsystems
 - Requirements for Model Refinement
 - Requirements for Addressing Uncertainties in Performance Assessment

9:45 a.m. Questions and discussion

- 10:15 a.m.** **Repository Safety Strategy—Introduction to Model Validation**
Bob Andrews
Manager
Performance Assessment Operations
Duke Engineering, M&O
- Terminology and Definitions
 - Requirements
 - Perspectives Including NRC/SKI White Paper

- Methods

10:45 a.m. Questions and discussion

11:15 a.m. BREAK

11:30 a.m. Public Comments

12:00 noon LUNCH

1:00 p.m. Session Chair
Paul Craig
Member, NWTRB

Repository Safety Strategy—Unsaturated Zone Model Validation

Bo Bodvarsson

Unsaturated Zone Process Model Lead

Lawrence Berkeley National Laboratory, M&O

- Implementation
- Bounding Analysis
- Multiple Lines of Evidence

1:35 p.m. Questions and discussion

1:55 p.m. Repository Safety Strategy—Waste Package Degradation Model Validation

Joe Farmer

Waste Package Degradation Process Model Lead

Lawrence Livermore National Laboratory, M&O

- Implementation
- Bounding Analysis
- Multiple Lines of Evidence

2:25 p.m. Questions and discussion

2:50 p.m. BREAK

3:00 p.m.

Roundtable Discussion on Model Validation

Norm Christensen, NWTRB, Chair

Donald Runnells, NWTRB

Alberto Sagüés, NWTRB

Bob Andrews, Duke Engineering, M&O

David Applegate, American Geological Institute

Steve Frishman, State of Nevada

Norman Eisenberg, Nuclear Regulatory Commission

Lenny Konikow, United States Geological Survey

Roger Newman, University of Manchester Institute of Science and Technology

Naomi Oreskes, University of California, San Diego

Chin-Fu Tsang, Lawrence Berkeley National Laboratory, M&O

5:30 p.m.

Closing Remarks and Adjournment

Jared Cohon

Chairman, NWTRB

NWTRB