



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

Agenda

Combined HG&G/SG&G Panels:  
Meeting on Thermal Management For A  
High-Level Waste Repository

November 17-18, 1994

Dupont Plaza Hotel  
1500 New Hampshire Ave., NW  
Washington, DC 20036  
1-800-841-0003  
(202) 483-6000  
Fax (202) 328-3265

**Thursday, November 17, 1994**

**8:30 A.M.**

**Welcome/introduction/overview**  
Edward Cording/Donald Langmuir  
Nuclear Waste Technical Review Board (NWTRB)

DEPARTMENT OF ENERGY (DOE) PROGRAM APPROACH  
THERMAL MANAGEMENT STRATEGY

**8:45 A.M.**

**Office of Civilian Radioactive Waste Management  
(OCRWM) program approach**  
**Ron Milner, OCRWM**

- Overview/five-year plan
- Waste acceptance, storage, and transportation
- Mined geologic disposal system
- Integrated milestones/schedules

**Thursday, November 17 — continued**

**9:00 A.M.**

**Overall compliance strategy**

[Stephan Brocoum](#)

Yucca Mountain Site Characterization Project Office (YMSCO)

- Design/operations
- Waste isolation
- Expected thermal-loading positions
  - Technical site-suitability determination
  - Environmental impact statement
  - License application
  - Update to receive and possess
  - Amendment for permanent closure

THERMAL MANAGEMENT OPTIONS

**9:30 A.M.**

**Waste acceptance, storage, and transportation program objectives**

[Samuel Rousso](#), OCRWM

**9:45 A.M.**

**Waste acceptance requirements**

[Alan Brownstein](#), OCRWM

**10:00 A.M.**

**Multipurpose canister rationale**

[Jeffrey Williams](#), OCRWM

**10:15 A.M.**

**BREAK (15 min)**

**10:30 A.M.**

**System thermal management strategy**

[Donald \(Buz\) Gibson](#)

Management and Operating Contractor (M&O)

TRW Environmental Safety Systems, Inc. (TRW)

**11:00 A.M.**

**Mined geologic disposal system thermal options/goals**

[Steven Saterlie](#), M&O (TRW)

**Thursday, November 17 — continued**

SITE RESPONSE TO THERMAL LOAD

- 11:20 A.M.**                      **Testing requirements for thermal-loading decisions in the proposed program approach**  
[Michael Voegele](#), M&O  
Science Applications International Company (SAIC)
- 12:00 P.M.**                      **LUNCH (1 hour and 15 minutes)**
- 1:15 P.M.**                      **Coupled processes overview: thermal, hydrological, and mechanical**  
[Ardyth Simmons](#), YMSCO
- 1:30 P.M.**                      **Site response to thermohydrologic, thermochemical, and thermomechanical couples**  
[Dale Wilder](#)  
Lawrence Livermore National Laboratory (LLNL)
- 3:00 P.M.**                      **How will the large block test aid the implementation of underground tests?**  
Dale Wilder, LLNL
- 3:30 P.M.**                      **BREAK (15 min)**
- 3:45 P.M.**                      **Round-table discussion**  
All participants and attendees
- 5:15 P.M.**                      **Comments from the audience**
- 5:30 P.M.**                      **Recess until 8:30 A.M., Friday, November 18**

**Friday, November 18, 1994**

REVIEW OF ONGOING ANALYSES

**8:30 A.M.**

**Thermal-loading system study update**

[Steven Saterlie](#), M&O (TRW)

- Parameters that affect assessments
- Monitoring approaches/thermal limits

**8:55 A.M.**

**Total systems performance assessment (TSPA) updates**

[Robert Andrews](#), INTERA

**9:55 A.M.**

**Status of the thermohydrologic review evaluation team**

[Ardyth Simmons](#), YMSCO

**10:15 A.M.**

**BREAK (15 min)**

IN SITU TESTING REQUIREMENTS

**10:30 A.M.**

**Underground heater tests**

[William Halsey](#), LLNL

[John Pott](#), Sandia National Laboratories

- Tests to be done
- Testing schedule
- Basis for spatial and temporal scaling
- Regulatory and design requirements to be addressed
- How test data will be used in decision making
- Data/analyses needed for low and high thermal-loading decisions

**11:30 A.M.**

**Underground test coordination**

[William Boyle](#), YMSCO

- Construction, planning, and coordination of ESF tests
  - Test needs
  - Impacts on ESF design and construction

**Friday, November 18 — continued**

**12:00 P.M.**

**LUNCH (1 hour and 30 min)**

**1:30 P.M.**

**Summary**

**Stephan Brocoum**, YMSCO

- Decision-making process
- Management/regulatory controls
- DOE/M&O management (why, how, and when)

**PERSPECTIVES**

**2:00 P.M.**

**State of Nevada**

**2:10 P.M.**

**Electric Power Research Institute**

**2:20 P.M.**

**Affected local units of government**

**2:30 P.M.**

**BREAK (15 min)**

**2:45 P.M.**

**Round-table discussion**

All participants and attendees

**4:15 P.M.**

**Comments from the audience**

**4:30 P.M.**

**Adjournment**