



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

Agenda

1995 Fall Board Meeting

Strategic Concerns, Total
System Performance Assessment

Arlington Renaissance Hotel
950 N. Stafford Street
Arlington, Virginia 22203
.....(703) 728-6000
Fax (703) 528-4386

....."Gallery"Dallroom
October 17-18, 1995

Tuesday, October 17

STRATEGIC CONCERNS

- 8:30 A.M.** **Welcome and introductory remarks**
John Cantlon
Chair, Nuclear Waste Technical Review Board (NWTRB)
- 8:40 A.M.** **Office of Civilian Radioactive Waste Management (OCRWM) report**
Daniel Dreyfus, Director
- Update on recent activities
 - Fiscal year 1996 budget-based priorities
 - Director's perspective on the future course of the program
- 9:10 A.M. *Questions/discussion*
- 9:25 A.M.** **Update on exploratory studies facility (ESF) progress**
[Richard Craun](#)
Department of Energy (DOE)
- 9:45 A.M. *Questions/discussion*

Tuesday, October 17 (continued)

- 9:55 A.M.** **Update on scientific investigations**
[William Boyle](#), DOE
- 10:15 A.M.* *Questions/discussion*
- 10:25 A.M.** **BREAK (15 minutes)**
- 10:40 A.M.** **Discussion with congressional staff**
Alex Flint — legislative assistant to Senator Pete Domenici (R-NM)
Sam Fowler — senior minority counsel, Senate Committee on Energy & Natural Resources
Sue Sheridan — minority counsel — House Committee on Commerce
Troy Timmons — professional staff member, House Committee on Commerce, Subcommittee on Energy and Power
- Perspectives on recent and upcoming legislation
- 11:40 A.M.** **National Academy of Sciences (NAS) report: Technical Bases For Yucca Mountain Standards**
[Robert Fri](#), Chair, NAS committee
- 12:10 P.M.* *Questions/discussion*
- 12:25 P.M.** **LUNCH (1 hour)**
- 1:25 P.M.** **DOE reaction to NAS standards report**
[Stephan Brocoum](#), DOE
- Implications of different kinds of standards for the program
 - Performance assessment insights
- 1:55 P.M.* *Questions/discussion*
- 2:10 P.M.** **Electric Power Research Institute (EPRI) analysis of the different standards using performance assessment**
[John Kessler](#), EPRI
- Two NAS standards report models
 - HR-1020 standard
 - Significant contributors to the different performance measures
 - Problems and uncertainties in calculating the different performance measures
 - Implications for site characterization, waste isolation strategy

2:30 P.M. *Questions/discussion*

Tuesday, October 17 (continued)

- 2:40 P.M.** **Waste isolation strategy update**
[Stephan Brocoum](#), DOE
[Jean Younker](#), TRW Environmental Safety Systems (TRW)
Management and Operating Contractor (M&O)
- Report from the M&O
 - New issues
 - Critical assumptions
 - Program implications
 - Performance assessment backup of waste isolation strategy

3:20 P.M. *Questions/discussion*

3:40 P.M. **BREAK (15 minutes)**

- 3:55 P.M.** **Round-table discussion of major issues: NAS standards report, waste isolation strategy, and congressional staff perspectives**
- What are the strategic and tactical implications involved?
 - How can the viability of the geologic disposal program be maintained?
 - What are the resultant priorities?
- Moderator — Jared Cohon, NWTRB
Participants: Daniel Dreyfus (OCRWM), Robert Fri (NAS), John Kessler (EPRI), [Stephan Brocoum](#) (DOE), [Jean Younker](#) (TRW-M&O), Margaret Federline (Nuclear Regulatory Commission), Robert Loux (state of Nevada), William Magavern (Public Citizen), [Lawrence Weinstock](#) (Environmental Protection Agency), Steven Kraft (Nuclear Energy Institute), Robert Williams, and Chris Whipple (IFC Kaiser).

5:10 P.M. **Public comment**

5:25 P.M. **Session closing remarks**
John Cantlon, NWTRB

5:30 P.M. **Recess until 8:30 A.M., Wednesday, October 18**

Wednesday, October 18

8:30 A.M. **Session introduction**
Donald Langmuir, NWTRB

TOTAL SYSTEM PERFORMANCE ASSESSMENT (TSPA) - 1995

8:35 A.M. **Introduction**
[Abe Van Luik](#), DOE

8:45 A.M. **Objectives/approach**
[Robert Andrews](#), INTERA (M&O)

9:05 A.M. *Questions/discussion*

9:15 A.M. **Ambient and thermally perturbed flow in the unsaturated zone**
[Srikanta Mishra](#), INTERA (M&O)

9:45 A.M. *Questions/discussion*

9:55 A.M. **BREAK (15 minutes)**

10:10 A.M. **Waste package degradation model and results**
[Joon Lee](#), INTERA (M&O)

10:40 A.M. *Questions/discussion*

10:50 A.M. **Engineered barrier system release model and results**
[Jerry McNeish](#), INTERA (M&O)

11:20 A.M. *Questions/discussion*

11:30 A.M. **LUNCH (1 hour)**

12:30 P.M. **Geosphere transport and release/dose**

[David Sevougian](#), INTERA (M&O)

1:15 P.M. Questions/discussion
Wednesday, October 18 (continued)

1:30 P.M. Volcanism effects and consequences
[Bruce Crowe](#)
Los Alamos National Laboratory

1:45 P.M. Questions/discussion

1:55 P.M. Summary and recommendations
[Robert Andrews](#), INTERA (M&O)

- Key uncertainties
- Alternate system performance measures
- Implications for site and design

2:15 P.M. Questions/discussion

2:25 P.M. Concluding remarks
[Eric Smistad](#), DOE

2:35 P.M. BREAK (15 minutes)

USING PERFORMANCE ASSESSMENT

2:50 P.M. Making use of performance assessment: lessons learned
[Paul Davis](#)
Sandia National Laboratories (SNL)

- Waste Isolation Pilot Plant, New Mexico
- Greater Confinement Disposal Program, Nevada
- Yucca Mountain, Nevada

3:20 P.M. Questions/discussion

3:30 P.M. BREAK (10 minutes)

3:40 P.M. Round-table discussion: the uses of TSPA
— Can TSPA be used to set priorities now?
— What are its limitations?
— How can it be made more useful?
— How valid are assessments of compliance?
— Can a simplified TSPA be developed and used effectively?
Moderator: Donald Langmuir, NWTRB

Participants: Abe Van Luik (DOE), Eric Smistad (DOE), Robert Andrews (INTERA-M&O), Paul Davis (SNL), John Kessler (EPRI), Ben Ross (Disposal Safety), Steve Frishman (state of Nevada), [Norman Eisenberg](#) (NRC), Chris Whipple (IFC Kaiser), and Robert Bernero.

Wednesday, October 18 (continued)

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| 4:50 P.M. | Public comment |
| 5:20 P.M. | Session summary
Donald Langmuir, NWTRB |
| 5:25 P.M. | Closing remarks
John Cantlon, Chair-NWTRB |
| 5:30 P.M. | Adjourn |