



UNITED STATES
NUCLEAR WASTE TECHNICAL REVIEW BOARD
1100 Wilson Boulevard, Suite 9100
Arlington, VA 22209

Final Agenda
Summer Board Meeting

July 12-13, 1994

Red Lion Hotel
3203 Quebec Street
Denver, Colorado 80207
Telephone: (303) 321-3333
Fax: (303) 355-0103

Tuesday, July 12

8:00 A.M.

Welcome and opening remarks

John Cantlon, Chair
Nuclear Waste Technical Review Board (NWTRB)

8:10 A.M.

Proposed program approach

[Sam Rousso](#)

Director, Waste Acceptance, Storage, and Transportation,
Office of Civilian Radioactive Waste Management
(OCRWM)

[Stephan Brocoum](#)

Yucca Mountain Site Characterization Office (YMSCO)

9:10 A.M.

Reaction to the proposed program approach

Malcolm Knapp, Director
Division of Waste Management
Nuclear Regulatory Commission

RADIONUCLIDE MOBILIZATION & MIGRATION OVERVIEW

Introduction

Donald Langmuir, Session Chair
NWTRB

9:30 A.M.

Current and planned radionuclide research

Ardyth Simmons, YMSCO

Tuesday, July 12 – continued

9:50 A.M. **Performance assessment and radionuclide transport**
[Ralston Barnard](#)
Sandia National Laboratories (SNL)

10:15 A.M. **BREAK (15 minutes)**

10:30 A.M. **Impact of various thermal-loading strategies on radionuclide migration**
[Robert Andrews](#), INTERA, Inc.
Management and operating contractor (M&O)

10:55 A.M. **Waste form dissolution and alteration**
[Raymond Stout](#)
Lawrence Livermore National Laboratory (LLNL)

GROUND-WATER TRANSPORT OF RADIONUCLIDES

11:20 A.M. **Moisture and gas flow in the unsaturated zone at Yucca Mountain**
Ed Kwicklis
U.S. Geological Survey (USGS)

11:45 A.M. **Unsaturated zone radionuclide transport modeling**
[George Zivoloski](#)
Los Alamos National Laboratory (LANL)

12:10 P.M. **LUNCH (1 hour, 20 minutes)**

1:30 P.M. **Status and priorities: solubility/speciation of long-lived radionuclides**
[Drew Tait](#), LANL

Tuesday, July 12 - continued

1:55 P.M. **Status and priorities: sorption of long-lived radionuclides**
[Ines Triay](#), LANL

2:20 P.M. **Selenite transport in unsaturated tuff from Yucca Mountain**
[James Conca](#)
Washington State University

2:45 P.M. **Colloid formation, stability, and transport**
[Ines Triay](#) and [Schön Levy](#), LANL

OTHER TRANSPORT ISSUES

3:15 P.M. **Retardation of Gas Phase radionuclides**
[Arend Meijer](#), LANL

3:40 P.M. **BREAK (10 minutes)**

INFLUENCE OF ENGINEERING ON RADIONUCLIDE RELEASE
AND NEAR-FIELD TRANSPORT

3:50 P.M. **Potential effects of engineered barriers on radionuclide migration**
[Richard Van Konynenburg](#), LLNL

4:20 P.M. **Engineered gravel backfill approaches to retarding flow and transport**
Michael Apted, Intera Information Technologies, Inc.
[James Conca](#), Washington State University

4:45 P.M. **Summary of Department of Energy (DOE) work in radionuclide migration**
[Ardyth Simmons](#), YMSCO

4:55 P.M. **BREAK (10 minutes)**

Tuesday, July 12 – continued

5:05 P.M.

Round-table discussion
Presenters and Board members

5:45 P.M.

Concluding remarks and recess until Wednesday

Wednesday, July 13

8:30 A.M. **Introduction of the Nuclear Waste Negotiator**
John Cantlon, Chair, NWTRB

8:35 A.M. **Nuclear Waste Negotiator's update**
Richard Stallings
Nuclear Waste Negotiator

TRANSPORTATION OF SPENT NUCLEAR FUEL

9:05 A.M. **Introduction**
Dennis Price, Session Chair
NWTRB

9:10 A.M. **Regulatory perspectives (overview) on transportation of spent nuclear fuel**
[Richard Hannon](#)
U.S. Department of Transportation

10:10 A.M. **BREAK (15 minutes)**

10:25 A.M. **Overview of the civilian radioactive waste management system transportation program**
[James Carlson](#), DOE

10:45 A.M. **Transportation system planning: program plan**
[Steven Gomberg](#), DOE

11:15 A.M. **Transportation system planning: operational concepts**
[Ronald Kelly](#)
E. R. Johnson Associates, Inc. (M&O)

11:45 A.M. **LUNCH (1 hour, 15 minutes)**

1:00 P.M. **Transportation institutional program overview**
[Susan Smith](#), DOE

Wednesday, July 13 - continued

- 1:25 P.M.** **Cask system development program: introduction**
William Lake, DOE
- 1:30 P.M.** **Summary of high-efficiency truck cask systems**
[Donald Nolan](#)
E. R. Johnson Associates, Inc. (M&O)
- 2:00 P.M.** **Legal-weight truck tractor/trailer testing**
[Thomas C. Smith](#)
E.R. Johnson Associates, Inc. (M&O)
- 2:20 P.M.** **Multipurpose container concept transportation cask requirements**
[Jim Clark](#)
E. R. Johnson Associates, Inc. (M&O)
- 2:40 P.M.** **BREAK (15 minutes)**
- 2:55 P.M.** **Use of burnup credit for storage and transportation**
[William Lake](#), DOE
- 3:25 P.M.** **Commercial Vehicle Safety Alliance (CVSA) enhanced inspection program**
[James Daust](#), CVSA
- 3:40 P.M.** **Human factors engineering implementation plans**
[Gregory Smith](#)
TRW Environmental Safety Systems, Inc. (M&O)
- 3:55 P.M.** **BREAK (15 minutes)**

Wednesday, July 13 - continued

4:10 P.M.

Rail transport of spent nuclear fuel

[Peter Conlon](#)

Association of American Railroads

4:40 P.M.

Comments from the public

5:15 P.M.

Summary and closing remarks

John Cantlon, NWTRB