



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

Spring Meeting Tuesday May 18, 2004

*Embassy Suites Hotel
1250 22nd Street, NW
Washington, DC 20037
Voice: (202) 875-3388
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8:00 a.m. Call to Order and Introductory Statement
David Duquette, Chair, Executive Committee, Nuclear Waste Technical Review Board (NWTRB), Member

8:10 a.m. Program Overview
Margaret Chu, Director, Office of Civilian Radioactive Waste Management (OCRWM), U.S. Department of Energy (DOE)

8:20 a.m. Questions, discussion

8:25 a.m. Transportation Update
[Gary Lanthrum](#), Director of National Transportation, Office of Strategy and Program Development, OCRWM

8:40 a.m. Questions, discussion

8:50 a.m. Yucca Mountain Project Status
[W. John Arthur III](#), Deputy Director for Repository Development, Office of Repository Development, OCRWM

9:05 a.m. Questions, discussion

9:15 a.m. Science Update
[Mark Peters](#), Project Manager, Los Alamos National Laboratory

10:00 a.m. Questions, discussion

10:15 a.m. BREAK (15 min.)

10:30 a.m. Seismic Update
[Jon Ake](#), Geophysicist, U.S. Bureau of Reclamation

11:00 a.m. Questions, discussion

11:15 a.m. Session on Corrosion During the Thermal Pulse
Session Chair, Ron Latanision, NWTRB Member

The Board's Evaluation (based on the Board's October 21, 2003, letter and November 25, 2003, report)

11:15 a.m. Introductory Remarks and Overview
[Ron Latanision](#), Panel Chair, Engineered System, NWTRB Member

11:25 a.m. Evolution of Environments on Waste Package Surfaces
[Thure Cerling](#), NWTRB Member

11:45 p.m. Corrosion
[David Duquette](#), NWTRB Member

12:00 noon Public Comment Period

12:25 p.m. LUNCH (1 hour 5 min)

1:30 p.m. Session on Corrosion During the Thermal Pulse (cont'd)
Session Chair, Dan Bullen, NWTRB Member

The Nuclear Regulatory Commission (NRC): Views and Recent Research

1:30 p.m. Regulatory Perspective on Corrosion of Alloy 22
[Tim McCartin](#), Senior Advisor for Performance Assessment, NRC

1:35 p.m. Near-Field Chemical Environment
[Roberto Pabalan](#), Principal Scientist, Center for Nuclear Waste Regulatory Analyses (CNWRA)

1:50 p.m. Factors Influencing the Uniform and Localized Corrosion of Alloy 22
[Darrell Dunn](#), Principal Engineer, CNWRA

2:10 p.m. Sensitivity Analysis of Waste Package Corrosion
[Tae Ahn](#), Senior Materials Engineer, NRC and [Tim McCartin](#), NRC

2:25 p.m. Questions, discussion

State of Nevada: Views and Recent Research

2:45 p.m. Evolution of Near-Field Environments
[Don Shettel](#), Chairman and Geochemist, Geoscience Management Institute, Inc.

3:10 p.m. Corrosion
[Roger Staehle](#), Materials Science and Engineering Consultant

3:40 p.m. Questions, discussion

4:00 p.m. BREAK (15 min)

Electric Power Research Institute (EPRI): Views and Recent Research

4:15 p.m. Overview
[John Kessler](#), EPRI

4:25 p.m. Effect of Desert Dust Composition on WP Environment
[Don Langmuir](#), Geochemist

4:45 p.m. Corrosion
Fraser King, Principal, Integrity Corrosion Consulting, Ltd.

5:00 p.m. Summary
Mick Apted, Executive Consultant, Monitor Scientific, LLC

5:05 p.m. Questions, discussion

5:25 p.m. Public Comment Period

5:45 p.m. Adjourn for the day

Wednesday May 19, 2004

Session on Corrosion During the Thermal Pulse (cont'd)

Session Chair, David Duquette, NWTRB Member

8:00 a.m. Call to Order and Opening Remarks
David Duquette, NWTRB Member

8:05 a.m. Regulatory Requirements
Margaret Chu, Director, OCRWM

8:15 a.m. Questions, discussion

8:25 a.m. Introduction to Presentations
[Robert Andrews](#), Manager Postclosure Safety, Bechtel SAIC Company (BSC)

9:05 a.m. *Questions, discussion*

9:20 a.m. Thermal Hydrological Environment and Thermal Seepage
[Gudmundur Bodvarsson](#), Director, Earth Sciences Division, Lawrence Berkeley National Laboratory (LBNL)

10:05 a.m. *Questions, discussion*

10:25 a.m. BREAK (15 min.)

10:40 a.m. The In-Drift Chemical Environment During the Above-Boiling Period
[Carl Steefel](#), Geochemist, LBNL

11:40 a.m. *Questions, discussion*

12:05 p.m. LUNCH (1 hour 25 min.)

1:30 p.m. Session on Corrosion During the Thermal Pulse
Session Chair, Ron Latanision, NWTRB Member

1:30 p.m. The In-Drift Chemical Environment during the Below-Boiling Period
[Carl Steefel](#), Geochemist, LBNL

2:15 p.m. *Questions, discussion*

2:35 p.m. Corrosion Resistance of Alloy 22
[Joe Payer](#), Professor of Materials Science and Engineering, Case-Western Reserve University

3:35 p.m. *Questions, discussion*

4:05 p.m. Summary of Presentations
[Robert Andrews](#), Manager Postclosure Safety, BSC

4:15 p.m. *Questions, discussion*

4:20 p.m. BREAK (30 min.)

4:50 p.m. Opportunity for Brief Wrap-up Statements

5:20 p.m. Public Comment Period

5:50 p.m. Adjourn