



UNITED STATES
NUCLEAR WASTE TECHNICAL REVIEW BOARD
1100 Wilson Boulevard, Suite 910
Arlington, VA 22209

April 25, 1991

Mr. Seth Coplan
U.S. Nuclear Regulatory Commission
4H3
Washington, D.C. 20555

Dear Mr. ^{Seth}Coplan:

Thank you for agreeing to participate in the upcoming meeting of the U. S. Nuclear Waste Technical Review Board's Panel on Risk and Performance Analysis. The meeting is scheduled to take place on May 20-21, 1991, at the Board's Offices, 1100 Wilson Boulevard, suite 910, Arlington, Virginia 22209. Representatives from the Department of Energy, the Electric Power Research Institute, the Nuclear Regulatory Commission, and the Center for Nuclear Waste Regulatory Analysis have been invited to participate. Attached is a copy of the tentative agenda. Please note that the allotted presentation times should include approximately ten minutes for questions from the panel and the audience.

We have included a special round-table discussion at the end of the meeting. Speakers are being asked to address the issues listed and not use this time to merely summarize their previous presentations.

Enclosed is a copy of the federal register notice, which includes information on hotel rooms.

Sincerely,

Leon Reiter
Senior Professional Staff

Enclosure

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1100 Wilson Boulevard, Suite 910
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Tentative Meeting Agenda

Panel on Risk & Performance Analysis

May 20, 1991

**NWTRB Office
1100 Wilson Boulevard
Suite 910
Arlington, Virginia 22209
(703) 235-4473**

8:30 A.M.

Welcome and Introduction

**D. Warner North, chair, Panel on Risk &
Performance Analysis**

8:45 A.M.

**Introduction to Yucca Mountain Project Performance
Assessment (PA) Program**

Russ Dyer, Department of Energy (DOE)

9:00 A.M.

Overview of Performance Assessment

Russ Dyer, DOE

- Regulatory requirements
- What is PA?
- PA participants and tasks

9:20 A.M.

**Brief History of Yucca Mountain Project (YMP) PA
Felton Bingham, Sandia National Laboratories
(SNL)**

9:40 A.M.

Use of PA in YMP

Russ Dyer, DOE

- Role of PA in YMP

-over-

- Iterative use of PA
- Structure of PA management plans
- Test and Evaluation Plan

10:15 A.M.

BREAK

10:30 A.M.

Examples of PA Support to Decision Making
Dave Dobson, DOE

- Use of PA in task forces (including early site suitability)
- Lessons learned from PA use on tasks

10:50 A.M.

PA Integration with Site Characterization and Design
Albin Brandstetter, Science Applications
International Corp. (SAIC)

- Planning and Controlling System and Long Range Planning
- FY 1991 and FY 1992 PA activities

11:20 A.M.

Preclosure PA
Les Jardine, Lawrence Livermore National
Laboratory (LLNL)

12:00 noon - 1:15 P.M.

LUNCH

1:15 P.M.

PA Model Development
Scott Sinnock, SNL

- Model hierarchy and uncertainty

1:45 P.M.

PACE 90 Exercise

- Introduction
Jerry Boak, DOE

- Overview and problem definition
H. Dockery, SNL
- Source term
William O'Connell, LLNL
- Groundwater flow and transport (including ground-
water travel time)
Maureen McGraw, Pacific Northwest Laboratory

3:15 P.M.

BREAK

3:30 P.M.

Ongoing and Future Activities

Rally Barnard, SNL

- Site suitability
- Disturbed scenarios
- Lessons learned from PACE exercise
- Total System Analysis
Michael Wilson, SNL

4:30 P.M.

Summary of YMP PA Program

Russ Dyer, DOE

- Efforts in total system performance including the use
of expert judgment

5:00 P.M.

ADJOURN

12:00 noon

LUNCH

1:30 P.M.

**Electric Power Research Institute (EPRI) Perspective
on PA
Robert Shaw, EPRI**

2:00 P.M.

**Round-Table Discussion on the Following Questions:
Speakers from both days**

- 1. What are the strong and weak points
associated with the application of PA to a high-level
waste repository?**
- 2. What are the strong and weak points
associated with the DOE's efforts in PA?**

3:20 P.M.

**Closing Remarks
D. Warner North, chair, Panel on Risk &
Performance Analysis**

3:30 P.M.

ADJOURN

NUCLEAR WASTE TECHNICAL REVIEW BOARD

Meeting

Pursuant to the Nuclear Waste Technical Review Board's (the Board) authority under section 5051 of Public Law 100-203 of the Nuclear Waste Policy Amendments Act (NWPAA) of 1987, the Board's Panel on Risk & Performance Analysis will hold a meeting on May 20-21, 1991, on performance assessment for the proposed high-level radioactive waste repository at Yucca Mountain, Nevada. Performance assessment is an analysis that predicts the behavior of a system or component of a system under a given set of conditions. In this case, the system includes the repository and the geologic, hydrogeologic, and biologic environment, and performance assessment can be used to determine whether specific standards or criteria are being met. The two-day panel meeting, which will run from 8:30 a.m.-5 p.m. both days, will be held at the Board's Offices, 1100 Wilson Boulevard, suite 910, Arlington, Virginia 22209; (703) 235-4473.

On May 20, panel members will hear from the Department of Energy (DOE) and its consultants on past, present, and future DOE performance assessment activities. Topics will include the results of PACE (Performance Assessment Calculational Exercises) 90; the use of performance assessment in the DOE's task force studies; planned studies for fiscal years 1991 and 1992; and the systematic integration of performance assessment into the proposed repository program.

On May 21, representatives from groups primarily outside of the DOE will present their views on performance assessment. The Nuclear Regulatory Commission (NRC) will discuss the results of its ongoing "demonstration performance assessment" and the NRC perspective on the use of performance assessment for the proposed repository. A consultant to the Center for Nuclear Waste Regulatory Analysis will discuss the probabilistic risk analysis of nuclear power plants and provide any insights that may be applicable to the use of performance assessment for a proposed repository. The Electric Power Research Institute also will present its views on performance assessment. At the end of the meeting, speakers from both days will participate in a roundtable discussion on performance assessment in general, and the DOE's program in particular.

Members of the public are welcome to attend the meeting as observers. A block of hotel rooms has been reserved at the Hyatt Arlington, 1325 Wilson Boulevard, Arlington, Virginia 22209; (703) 525-1234. To be included in the block and receive the preferred rate, individuals must contact the Hyatt Arlington Hotel *on or before April 28, 1991*, and indicate that they are attending the Nuclear Waste Technical Review Board meeting.

Transcripts of the meeting will be available on a library-loan basis from Victoria Reich, Board Librarian, beginning June 10, 1991. For further meeting information, contact Paula N. Alford, Director, External Affairs, Nuclear Waste Technical Review Board, 1100 Wilson Boulevard, suite 910, Arlington Virginia 22209; (703) 235-4473.

Dated: April 9, 1991.

William D. Barnard,
Executive Director, Nuclear Waste Technical Review Board.

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