

# UNITED STATES NUCLEAR WASTE TECHNICAL REVIEW BOARD

1100 Wilson Boulevard, Suite 910 Arlington, VA 22209

## Final Agenda

## Meeting of the Panel on Structural Geology & Geoengineering

**January 22, 1992** 

Hyatt Regency Hotel 17900 Jamboree Boulevard Irvine, California 92714 (714) 975-1234

8:30 A.M. Welcome

Don U. Deere, Chairman, Nuclear Waste Technical

Review Board

8:35 A.M. Introductory Remarks

Clarence Allen, chair, Panel on Structural

Geology & Geoengineering

8:45 A.M. Introduction to Seismic Vulnerabilities

Ardyth Simmons, Department of Energy (DOE)

9:00 A.M. Summary of Seismic Hazard

Terry Grant, Science Applications International

Corp. (SAIC)

• Preclosure and postclosure (faulting and ground motion)

• Multiple-event and multiple-faulting scenarios

9:50 A.M. Update on Midway Valley Trenching

F.H. Swan, Geomatrix

10:10 A.M. BREAK

10:40 A.M. Effects of Nuclear Explosions on Tunnels at the

**Nevada Test Site** 

J.S. Phillips, Sandia National Laboratories (SNL)

11:15 A.M.	Seismic Vulnerabilities and Seismic Design Issues: Surface Facilities Philip Richter, Fluor Daniel
12:15 A.M 1:30 P.M.	LUNCH
1:30 р.м.	Seismic Vulnerabilities and Seismic Design Issues: Subsurface Facilities J. L. Merritt, Woodward-Clyde
2:30 р.м.	Site Characterization at Yucca Mountain and Issues Related to Seismic Vulnerability Richard Quittmeyer, Woodward-Clyde
3:10 Р.М.	Summary of Presentations by the DOE Ardyth Simmons, DOE
3:15 р.м.	BREAK
3:30 р.м.	Vulnerability of the Geologic Repository to Vibratory Ground Motion and Fault Displacement: Regulatory Perspective Dinesh Gupta, Nuclear Regulatory Commission (NRC)
4:00 P.M.	Seismic Response of Underground Openings for High- Level Waste Jacob Phillip, NRC, Simon Hsiung, Center for Nuclear Waste Regulatory Analyses
4:40 р.м.	State of Nevada Perspective on Seismic Vulnerabilities David Tilson, Nevada Agency for Nuclear Projects
5:20 P.M.	ADJOURN

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8:30 A.M. Opening Remarks

Clarence Allen, chair, Panel on Structural Geology &

Geoengineering, Nuclear Waste Technical

Review Board

8:35 A.M. The Likelihood of New Faulting

David Schwartz, U.S. Geological Survey

9:20 A.M The Identification of Faulting and Seismic Hazards at

a Geologic Repository Keith McConnell, NRC

10:15 A.M. BREAK

10:30 A.M. EPRI Seismic Studies

Kevin Coppersmith, Geomatrix
• Insights on vulnerabilities

• Update on seismic hazard studies

11:20 A.M. Proposed American Society of Civil Engineers (ASCE)

Seismic Design Guidelines for a High-Level Waste

Repository

Quazi Hossain, Quadrex

• Faulting - F.H. Swan, Geomatrix

• Ground motion - Walt Silva, Pacific Engineering and

**Analysis** 

12:25 P.M. LUNCH

1:30 P.M. Proposed American Society of Civil Engineers (ASCE)

Seismic Design Guidelines for a High-Level Waste

Repository

• Surface facilities design - Ken Mark, Bechtel

• Underground facilities design - Mike Hardy,

Agapito and Associates

2:15 P.M. Discussion

To what extent can seismic vulnerability be used as a guide to site characterization and design?

• What are the key seismic vulnerabilities?

• How important are they?

• How can this information be folded into site

characterization?

3:30 - 4:30 P.M. Executive Session

4:30 P.M. ADJOURN