



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

Agenda

Panel on Structural Geology & Geoengineering
Meeting on Volcanism

Alexis Park Hotel
375 East Harmon
Las Vegas, NV 89109
(702) 796-3300

September 14-16, 1992

Monday, September 14, 1992

1:00 P.M.

Welcome

Clarence R. Allen, Nuclear Waste Technical
Review Board (NWTRB)

1:10 P.M.

Introductions

[Dr. Jeanne Cooper](#), Department of Energy (DOE)
Mr. Carl Johnson, state of Nevada
Mr. Keith McConnell, Nuclear Regulatory Commission (NRC)

UPDATE ON GEOLOGIC AND GEOPHYSICAL STUDIES

1:30 P.M.

Overview of Task Status

[Bruce Crowe](#), Los Alamos National Laboratory (LANL)

2:00 P.M.

Review of Age-Dating Activity

[Don DePaolo](#), University of California at Berkeley

2:45 P.M.

Paleomagnetism Studies

[John Geissman](#), University of New Mexico (UNM)

3:05 P.M.

Cosmogenic Helium Studies

[Jane Poths](#), LANL

3:20 P.M.

BREAK

3:35 P.M.

Soils and Geomorphic Studies: Part I

[Leslie McFadden](#), UNM

-over-

4:05 P.M. **Soils and Geomorphologic Studies: Part II**
Steve Wells, University of California at Riverside

4:35 P.M. **Petrology Studies - Basal Cycles**
Frank Perry, UNM

5:20 P.M. **ADJOURN**

Tuesday, September 15, 1992

8:30 A.M. **Opening Remarks**
Clarence R. Allen, NWTRB

UPDATE ON GEOLOGIC AND GEOPHYSICAL STUDIES (cont.)

8:40 A.M. **Physical Processes of Magmatism and Effects
on Repository**
Greg Valentine, LANL

9:30 A.M. **Progress in Field Studies of Recent Volcanism**
Eugene Smith, University of Nevada-Las Vegas (UNLV)

10:00 A.M. **Structural Control of Pliocene Volcanism in the
Reveille Range of Central Nevada**
Mark W. Martin, UNLV

10:30 A.M. **BREAK**

10:45 A.M. **New High-Precision ⁴⁰Ar/³⁹Ar Step-Heating Results
from Basalts near Yucca Mountain**
Brent Turrin, U.S. Geological Survey (USGS)

11:30 A.M. **New Paleomagnetic and Geologic Constraints:
Evaluation of Polycyclic Volcanism in Basalts
near Yucca Mountain**
Duane Champion, USGS

12:20 - 1:30 P.M. **LUNCH**

1:30 P.M. **Comments on Volcanic Issues at Yucca Mountain**
Kip Hodges, Massachusetts Institute of Technology

UPDATE ON PROBABILISTIC HAZARD STUDIES

2:05 P.M. **Status of Probability Studies**
[Bruce Crowe](#), LANL

2:50 P.M. **Progress in Probabilistic Studies**
[Chih-Hsiang Ho](#), UNLV

PERSPECTIVES AND ROUND-TABLE DISCUSSION

3:30 P.M. **BREAK**

3:45 P.M. **Volcanic Studies: Progress and Future Direction**
[Bruce Crowe](#), LANL
Mike Murrell, LANL

4:20 P.M. **NRC Perspective on Issue of Volcanism**
[John Trapp](#), NRC

4:45 P.M. **Closing Remarks**
DOE, state of Nevada, NRC

5:15 P.M. **Round-Table Discussion**

1. On which issues is a consensus developing?
2. On which issues are there serious differences?
3. Are these issues important with respect to site suitability and public health and safety?
4. How can these issues be resolved?

6:40 P.M. **Closing Remarks**
Clarence R. Allen, NWTRB

6:45 P.M. **ADJOURN**