U.S. DEPARTMENT OF ENERGY
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

NUCLEAR WASTE TECHNICAL REVIEW BOARD
PANEL ON STRUCTURAL GEOLOGY & GEOENGINEERING

SUBJECT: INTRODUCTORY REMARKS

PRESENTER: DR. JEANNE COOPER

PRESENTER'S TITLE AND ORGANIZATION:
PHYSICAL SCIENTIST
YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
LAS VEGAS, NEVADA

PRESENTER'S TELEPHONE NUMBER: (702) 794-7930

ALEXIS PARK HOTEL
SEPTEMBER 14 - 16, 1992
Introductory Remarks

• Primary focus of volcanism studies is evaluation of the potentially adverse condition of igneous activity

• As mandated by law, DOE must look for evidence that would disqualify the site early in the siting process

• DOE believes that the only future igneous event potentially capable BY ITSELF of disqualifying the site is an extrusive event through the repository
Introductory Remarks
(Continued)

• Investigations focus on a probabilistic approach to assessment:
  - Initial emphasis on disqualification from an ERUPTIVE release
  - Currently expanding studies to the effects of igneous activity on the waste isolation system

• Volcanism studies are progressing satisfactory:
  - Progress slowed by limited budget in FY 92
  - Investigations follow the three study plans and the strategy described in the Program Baseline

• This meeting is a progress report of accomplishments since March 1991
  - See a "snapshot" of activities currently in progress
Nuclear Waste Technical Review Board
Panel on Structural Geology and Geoengineering
Meeting on Volcanism

Agenda

September 14 - 16, 1992
Las Vegas, Nevada

Monday, September 14, 1992

Update on Geologic and Geophysical Studies

1:30 Overview of Task Status  B. Crowe, LANL
2:00 Review of Age-Dating Activity  D. DePaolo, UCB
2:45 Paleomagnetism Studies  J. Geissman, UNM
3:05 Cosmogenic Helium Dating Studies  J. Poths, LANL
3:20 Break
Agenda

Update on Geologic and Geophysical Studies

3:35  Soils and Geomorphic Studies: Part I  L. McFadden, UNM
4:05  Soils and Geomorphic Studies: Part II  S. Wells, UCR
4:35  Petrology Studies - Basalt Cycles  F. Perry, UNM
5:20  Adjourn
Tuesday, September 15, 1992

Update on Geologic and Geophysical Studies

8:40 Physical Processes of Magmatism and Effects on Repository
   G. Valentine, LANL

9:30 Progress in Field Studies of Recent Volcanism
   E. Smith, UNLV

Update on Probabilistic Hazard Studies

1:30 Status of Probability Studies
   B. Crowe, LANL

Perspectives and Round-Table Discussion

2:45 Volcanic Studies - Progress and Future Direction
   B. Crowe, LANL
Agenda

Wednesday, September 16, 1992

7:00   Field Trip