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

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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 <u>progress report</u> of accomplishments since March 1991
 - See a "snapshot" of activities currently in progress

Nuclear Waste Technical Review Board Panel on Stuctural 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

Agenda

Tuesda	v. September 15, 1992	
Update	e 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	e on Probabilistic Hazard Studies	
1:30	Status of Probability Studies	B. Crowe, LANL
Persp	ectives and Round-Table Discussion	
2:45	Volcanic Studies - Progress and Future Direction	B. Crowe, LANL

Agenda

Wednesday, September 16, 1992

7:00 Field Trip