

February 5, 1997

MEMORANDUM FOR:

John O. Thoma, Section Leader
Performance Assessment and HLW
Integration Branch
Division of Waste Management

FROM:

Sandra L. Wastler, Senior Project Manager
Performance Assessment and HLW
Integration Branch
Division of Waste Management

SUBJECT:

FORTHCOMING NUCLEAR REGULATORY COMMISSION/U.S.
DEPARTMENT OF ENERGY TECHNICAL EXCHANGE ON
IGNEOUS ACTIVITY

DATE/TIME of MEETING:

February 25-26, 1997
8:00 a.m. - 5:00 p.m. EST

LOCATION of MEETING:

NRC-Headquarters
Room T6A1
11545 Rockville Pike
Rockville, MD 20852

PURPOSE of MEETING:

Exchange information, foster discussion, and determine areas of agreement and disagreement at the staff level on the relevant geologic data, the probability of volcanism, models for calculating consequences, and performance assessment models of igneous activity. (See attached agenda).

PARTICIPANTS:

<u>NRC</u>	<u>DOE</u>	<u>Nevada</u>	<u>CNWRA</u>
JGreeves	SBrocoum	CJohnson	BHill
MFederline	et. al.	et. al.	CConnor
JTrapp			

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Enclosure: As stated

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NAME	SWastler	JThoma						
DATE	02/5/96	02/5/96		/ /96		/ /96		/ /96

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

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AGENDA
DOE/NRC TECHNICAL EXCHANGE - IGNEOUS ACTIVITY PROGRAM
February 25-26, 1997

OBJECTIVE:

To achieve issue definition on the approach to considering igneous activity in TSPA-VA and identify areas of agreement and disagreement at the staff level on the relevant geologic data, the probability of volcanism, models for calculating consequences, and performance assessment models of igneous activity.

GOALS:

At the staff level, exchange information, foster discussion, and determine areas of agreement and disagreement, and paths for pursuing, identifying, and resolving areas of disagreement.

Define the Yucca Mountain Region (YMR) system (spatial, temporal, petrogenetic/isotopic constraints; consider buried volcanic features (i.e., those that may be present but undetected); evaluate evidence of post-caldera silicic volcanism.

Examine technical bases for source-zone definitions; evaluate approaches to incorporating structural models/data into probability models; evaluate geophysical site characteristics relevant to volcanism.

Evaluate the technical basis for performance assessment (PA) abstractions, especially waste incorporation; examine approaches for building confidence in models using geological data.

Examine range of dose estimates from processes; identify and discuss critical uncertainties regarding engineered systems behavior during igneous events; evaluate alternative approaches for understanding geologic processes in disturbed repository setting.

February 25, 1997

8:00	Introduction - Opening Remarks	DOE/NRC/AUG
8:30	Geologic Setting and Relevant Data - CNWRA Field Studies - Definition of the YMR System - Crater Flat 6 Ma Pumice - Ground Magnetic Surveys in YMR	NRC
10:15	Break	ALL
10:30	Probability Models - PVHA Results	DOE

February 25, 1997 (continued)

12:00	Lunch	ALL
1:00	Probability Models (Continued) NRC Probability Models - Concerns With PVHA Source - Zone Definitions - Structural Setting of YMR Relevant to Repository - Integrated Volcanism Structural Models	NRC
2:00	Caucus	ALL
2:30	Wrap up - Areas of Agreement and Disagreement	ALL
3:15	Break	ALL
3:30	Consequence Models NRC Consequence Models - Tephra Dispersion - Subsurface Area of Disruption - Critical Models used in PA Models for Dose	NRC
5:00	Adjourn	ALL

February 26, 1997

8:00	Comments on Previous Day Discussions	ALL
8:30	Sensitivity Studies and Significance - Results of NRC/CNWRA Sensitivities Studies - DOE Plans for TSPA - VA	NRC DOE
10:30	Caucus	ALL
12:00	Lunch	ALL
1:00	Itemization of agreements/disagreements - Ensure NRC's comments/technical bases and DOE's responses are understood - Make modifications to suit	NRC/DOE
3:00	Closing comments	ALL
3:30	Adjourn	ALL

Meeting Notice

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cc: W. Barnes, YMPO
S. Brocoum, YMPO
A. Gil, YMPO
C. Einberg, DOE/Wash, DC
W. Barnard, NWTRB
B. Russo, EPA
D. Weigel, GAO
R. Holden, NCAI
T. Burton, NIEC
J. Lyznicky, AMA
B. Mettam, Inyo County, CA
V. Poe, Mineral County, NV
L. Fiorenzi, Eureka County, NV
J. Regan, Churchill County, NV
R. Loux, State of Nevada
C. Johnson, State of Nevada
B. Price, NV Leg. Committee
J. Meder, NV Leg. Counsel Bureau
M. Murphy, Nye County, NV
L. Bradshaw, Nye County, NV
P. Niedzielski-Eichner, Nye County, NV
N. Stellavato, Nye County, NV
M. Baughman, Lincoln County, NV
D. Bechtel, Clark County, NV
R. Williams, Lander County, NV
W. Cameron, White Pine County, NV
J. Hoffman, Esmeralda County, NV
J. Arnold, Pahrump, NV

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Integration Branch
Division of Waste Management

FROM: Sandra L. Wastler, Senior Project Manager
Performance Assessment and HLW
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PARTICIPANTS: NRC DOE Nevada CNWRA
JGreeves SBrocoum CJohnson B Hill
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AGENDA
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