



Department of Energy  
 Yucca Mountain Project Office  
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 QA: N/A

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SEP 20 1990

John J. Linehan, Director  
 Repository Licensing Project Directorate  
 Division of Waste Management  
 U.S. Nuclear Regulatory Commission  
 4-H-3  
 Washington, DC 20555

INFORMATION ON U.S. DEPARTMENT OF ENERGY/U.S. NUCLEAR REGULATORY COMMISSION  
 (DOE/NRC) TECHNICAL EXCHANGE ON UNSATURATED ZONE HYDROLOGY AND HYDROCHEMISTRY

A DOE/NRC technical exchange on Unsaturated Zone Hydrology and Hydrochemistry has been scheduled for September 26-27, 1990, in Denver, Colorado. The meeting will take place at the Stapleton Plaza Hotel, (303) 321-3500, in the Arapahoe A meeting room from 8:30 a.m. to 5 p.m. both days. A block of rooms has been reserved at the hotel at a government rate of \$52 plus tax. Reservations must be made by Friday, September 21, 1990. Attendees should identify themselves with the "Department of Energy/Nuclear Regulatory Commission" meeting when registering. The hotel is directly across from the airport and has a shuttle which runs every 15 minutes.

If you have further questions about the logistics of this meeting, please contact Ardyth M. Simmons of my staff at (702) 794-7998 or FTS 544-7998.

Carl P. Gertz, Project Manager  
 Yucca Mountain Project Office

RSED;AMS-5047

Enclosure:  
 Meeting Agenda

- cc w/encl:
- D. E. Shelor, HQ (RW-30) FORS
  - L. J. Desell, HQ (RW-30) FORS
  - Corinne Macaluso, HQ (RW-30) FORS
  - C. H. Johnson, NWPO, Carson City, NV
  - Daniel Gillies, USGS, Denver, CO
  - L. R. Hayes, USGS, Las Vegas, NV
  - M. A. Glora, SAIC, Las Vegas, NV
  - C. L. Biddison, SAIC, Las Vegas, NV
  - Marvin Saines, Harza, Las Vegas, NV
  - L. J. Jardine, LLNL, Livermore, CA
  - R. J. Herbst, LANL, Los Alamos, NM
  - J. A. Canapa, LANL, Los Alamos, NM
  - T. O. Hunter, SNL, 6310, Albuquerque, NM

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September 17, 1990

AGENDA

DOE-NRC TECHNICAL EXCHANGE ON UNSATURATED ZONE  
HYDROLOGIC CHARACTERIZATION

September 26-27, 1990  
Wednesday 8:30 - 5:00 PM  
Thursday 8:30 - 4:00 PM

Stapleton Plaza Hotel - Arapahoe "A"  
Denver, Colorado

**PURPOSE:** To discuss the planned unsaturated zone (UZ) hydrologic and hydrochemical tests described in the SCP and, to the extent possible, NRC's Site Characterization Analysis (SCA) comments that relate to these planned tests. In addition, the UZ Hydrology Peer Review results will be discussed.

**SCOPE:** This technical exchange will focus on planned testing to acquire hydrologic transport information at the site. Specifically, hypotheses and questions related to fracture vs. matrix flow and how the hypotheses will be tested during site characterization will be discussed.

Wednesday, September 26, 1990

<u>Agenda Topic</u>	<u>Discussion Leader</u>
Opening remarks	DOE, NRC, State
o Introduction	DOE
o Synopsis of UZ Hydrology Peer Review	DOE
Discussion	all
o Comments on Site Characterization of the UZ	NRC
Discussion	all
o Review of conceptual models of flow and flow processes in the UZ	DOE
Discussion	all
o Spatial variability and representativeness of hydrologic properties in the UZ	DOE
Discussion	all

DOE-NRC TECHNICAL EXCHANGE ON UNSATURATED ZONE  
HYDROLOGIC CHARACTERIZATION  
(continued)

<u>Agenda Topic</u>	<u>Discussion Leader</u>
o Deep borehole testing for flow processes	DOE
Discussion	all
o Air-permeability testing	DOE
Discussion	all
o Geochemical and isotopic methods for determining flow paths and travel time	DOE
Discussion	all
Adjourn	

Thursday, September 27, 1990

Opening remarks, comments from Day 1	DOE, NRC, State
o Small-scale fluid flow in fractured tuffs	
Discussion	all
o UZ infiltration: variability of precipitation input to repository block	DOE
Discussion	all
o Process-oriented modeling of flow in the UZ	DOE
Discussion	all
o Site-scale flow modeling and data requirements	DOE
Discussion	all
Concluding discussion and final remarks	DOE, NRC, State