

Mr. Mark J. Logsdon, Project Manager
Nuclear Waste Consultants, Inc.
Suite 306
155 South Madison Street
Denver, Colorado 80209-3014

Dear Mr. Logsdon:

The Hydrology Section requests that Tom Sniff attend the Department of Energy-Nuclear Regulatory Commission Technical Meeting On Alternative Conceptual Models Of The Ground-Water System At Yucca Mountain to be held from April 11 to 14, 1988 in Las Vegas, Nevada. Your purpose in attending this meeting is to observe, listen, and support the NRC Hydrology Staff (W. Ford) attending the meeting. A detailed trip report (Refer to NWC communication No. 235) is to be prepared after the meeting and submitted to the NRC. In addition to the technical meeting you should attend an NRC caucus on April 10, at 3 PM in the Las Vegas NRC Field Office, located at Suite 319, 1050 Flamingo Rd., Las Vegas, NV 89119. The phone number for the NRC Field Office is (702)388-6125. A current version of the workshop agenda is attached. Should you have any questions please contact William Ford at (301)492-0506.

The action taken by this letter is considered to be within the scope of the current contract NRC-02-85-009. No changes to costs or delivery of contracted products are authorized. Please notify me immediately if you believe this letter would result in a change to costs or delivery of contracted products.

Sincerely,

Jeffrey A. Pohle, Project Officer
Hydrology Section
Technical Review Branch
Division of High-Level Waste Management
Office of Nuclear Material Safety
and Safeguards

Enclosure:
As stated

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cc: Tom Sniff, WW&L, Inc.

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DOE-NRC TECHNICAL MEETING

ALTERNATIVE CONCEPTUAL MODELS OF THE GROUND-WATER SYSTEM

YUCCA MOUNTAIN

PRELIMINARY AGENDA
(3-23-88 version)
(revised 3-28-88)

Meeting purpose is to consider different conceptual models of the ground-water system, including geologic, tectonic, hydrologic, geochemical, and climatologic influences in the Yucca Mountain region. This is to promote open discussion about similarities, differences, and compatibilities of the various conceptual models. Using such information, DOE will be able to ensure that the SCP contains plans for data collection sufficient to evaluate alternative models. Each presentation of a conceptual model should include the following six items:

- o Assumptions supporting the model
- o Physical processes and disruptive events incorporated in the model
- o Boundary conditions
- o Available data supporting the model
- o Additional data needed to refine the model and testing proposed to gather the additional data (surface-based/ESF)
- o Analyses to be performed to evaluate the data and the conceptual model

Day 1

9:00 - 9:30	DOE Introductory Remarks	
	Purpose and Scope Background	R. Stein, DOE/HQ C. Gertz, DOE/NV
9:30 - 11:00	NRC Introductory Remarks and Summary of SCP-CD Concerns Relevant to Conceptual Models	
11:00 - 11:30	DOE Response	
11:30 - 1:00	Lunch	
1:00 - 4:00	DOE Conceptual Model	
1:00 - 1:10	Introduction	M. Blanchard, DOE/NV
1:10 - 2:45	The Hydrologic Setting o Include the 6 items identified above	W. Wilson, USGS

- 2:45 - 3:00 Break
- 3:00 - 3:45 Translation to numerical models S. Sinnock, SNL
for performance assessment
o Include the 6 items identified above
- 3:45 - 5:00 Clarifying questions and commentary
from participants

Day 2 Presentations of other conceptual models:
(Presenters to be arranged)

1 to 3 hrs Description of Alternative Conceptual Model
for each presenter
o Include the 6 items identified above

15 to 30 min. Clarifying Questions from Participants on
Description of Conceptual Model

Day 3

- 8:00 - 10:30 Moderator-led Open Discussion of Similarities and
Differences Among the Various Conceptual Models
- o Extent to which the alternative conceptual models incorporate the same physical processes and disruptive events and where they differ
 - o Extent to which the alternative conceptual models employ the same underlying assumptions and where they differ
 - o Extent to which the alternative conceptual models have similar initial fixed and variable boundary conditions and where they differ
 - o Extent to which the alternative conceptual models have similar information needs and where they differ
 - o Implication of models on ground water travel time and radionuclide transport
- 10:30 - 11:00 Caucus/Break
- 11:00 - 12:00 View of Each Participating Organization presented by a
Spokesperson from Each Organization
- 12:00 - 1:00 Lunch

1:00 - 3:00 Moderator-led Open Discussion on Sufficiency of Data
Collection Plans in SCP-CD
(DOE to provide brief summary/overview of related
topics from SCP-CD)

- o Extent to which the surface-based testing information
needs are similar and where they differ
- o Extent to which the ESF testing information needs are
similar and where they differ

3:00 - 3:30 Break

3:30 - 5:30 Discussion on Sufficiency of Data (continued)

5:00 - 5:30 Caucus for Day 4 Wrap-up Statements

Day 4

8:00 - 9:00 DOE Statement; Discussion Relevant to Szymanski's Draft
Report; Wrap-up Statement on Alternative Conceptual Models

9:00 - 9:30 NRC Wrap-up Statement on Alternative Conceptual Models

9:30 - 10:00 State Wrap-up Statement on Alternative Conceptual Models

10:00 - 12:00 Preparation of Draft Meeting Summary

12:00 - 1:00 Lunch

1:00 - 5:00 Discussion and Finalization of Meeting Summary

APR 01 1988

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OFFICIAL CONCURRENCE AND DISTRIBUTION RECORD

LETTER FOR: Mr. Mark J. Logsdon, Project Manager
 Nuclear Waste Consultants, Inc. Suite 306
 155 South Madison Street
 Denver, Colorado 80209-3014

FROM: Jeffrey A. Pohle, Project Officer
 Hydrology Section
 Technical Review Branch
 Division of High-Level Waste Management
 Office of Nuclear Material Safety
 and Safeguards

SUBJECT: REQUEST TO ATTEND APRIL 11 to 14, 1988, DEPARTMENT OF
 ENERGY-NUCLEAR REGULATORY COMMISSION TECHNICAL MEETING ON
 ALTERNATIVE CONCEPTUAL MODELS OF THE GROUND-WATER SYSTEM AT
 YUCCA MOUNTAIN

DATE: April 1, 1988

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JPohle, HLTR	EDavis, PMDA	EKnox, ACB/AR2223

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CONCURRENCES

ORGANIZATION/CONCUREE	INITIALS	DATE CONCURRED
HLTR/WFord	<i>W Ford</i>	88/04/01
HLTR/JPohle	<i>JP</i>	88/04/01
HLTR/DChery	<i>DChery</i>	88/04/01