

December 21, 2000

MEMORANDUM TO: C. William Reamer, Chief
High-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety and Safeguards

FROM: Kien Chang, Project Manager /RA/ by King Stablein for
Projects and Engineering Section
High-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety and Safeguards

SUBJECT: FORTHCOMING U.S. NUCLEAR REGULATORY COMMISSION
AND U.S. DEPARTMENT OF ENERGY TECHNICAL
EXCHANGE AND MANAGEMENT MEETING TO DISCUSS
THERMAL EFFECTS ON FLOW AND EVOLUTION OF THE
NEAR FIELD ENVIRONMENT

DATE/TIME of MEETING: January 8 - 12, 2001
8:00 a.m. - 5:45 p.m. (PT) 11:00 a.m. - 8:45 p.m. (ET)

LOCATION: Crowne Plaza Hotel
11950 Dublin Canyon Road
Pleasanton, California

PURPOSE: Discuss resolution of open issues related to the Key Technical
Issues of thermal effects on flow and evolution of the near field
environment

AGENDA: Attached

PARTICIPANTS: NRC DOE Nevada NV Counties
DBrooks CHanlon SFrishman DBechtcl
BLeslie DWilliams et. al. et. al.
et. al. et. al.

* Meetings and technical exchanges between NRC and DOE are open to members of the public, petitioners, interveners, or other interested parties wishing to attend as observers pursuant to the spirit of "Policy Statement on Staff Meetings Open to the Public," 65 Federal Register 56964, dated September 20, 2000. The revised policy states that public notice of staff meetings open to the public will be provided via the Internet at the U.S. Nuclear Regulatory Commission Web site. Members of the public can also contact the staff toll free at 1-800-397-4209.

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Memorandum to C. W. Reamer from K. Chang dated: December 21, 2000

cc:

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S. Kraft, NEI
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S. Besser, NV Congressional Delegation
N. Rice, NV Congressional Delegation
T. Story, NV Congressional Delegation
J. Reynoldson, NV Congressional Delegation
J. Pegues, City of Las Vegas, NV

**DRAFT AGENDA
DOE/NRC TECHNICAL EXCHANGE MEETING
THERMAL EFFECTS ON FLOW AND EVOLUTION OF THE NEAR-FIELD ENVIRONMENT
KEY TECHNICAL ISSUES
CROWNE PLAZA HOTEL
11950 DUBLIN CANYON ROAD
PLEASANTON, CALIFORNIA
JANUARY 8 - 12, 2001**

INTERESTED PARTIES CAN PARTICIPATE IN THE TECHNICAL EXCHANGE VIA TELECON BY CALLING 1-702-295-6081.

Objective: Provide the basis to resolve open issues related to the Thermal Effects on Flow (TEF) and Evolution of the Near Field Environment (ENFE) Key Technical Issues (KTIs)

Times are approximate since the agenda items are expected to provide a framework for wider ranging discussions. Times allotted for each presentation includes time for the DOE presentation and time for accompanying discussion.

Monday, January 8, 2001

- | | |
|-------------------------|--|
| 8:00 – 8:20 AM | TEF Introduction/Objectives/Logistics
Purpose of the Interaction |
| 8:20 – 8:40 AM | Key Technical Issue on Thermal Effects on Flow – Summary of
Status from DOE Perspective [DOE(Barr)/NRC] |
| 8:40 – 9:10 AM | Overview of Model and Data Uncertainties [DOE(Coppersmith)/NRC] |
| 9:10 – 9:45 AM | Thermal Effects on Flow - Impacts on TSPA <ul style="list-style-type: none">• DOE Presentation [DOE(Francis)/NRC]• Discussion |
| 9:45 – 10:00 AM | BREAK |
| 10:00 – 10:30 AM | TEF & ENFE FEPs joint discussion (includes TEF Subissue 1 and
ENFE Subissues 1, 2, 3 & 4) [DOE(Francis)/NRC] |
| 10:30 – 11:15 AM | Caucus on TEF Subissue 1 |
| 11:15 – 11:45 AM | DOE/NRC Discussion of Resolution Status |
| 11:45 – 12:45 PM | LUNCH |
| 12:45 – 2:40 PM | Subissue 2: Thermal Effects on Temperature, Humidity, Saturation
and Flux <ul style="list-style-type: none">• DOE Presentation [DOE(Hardin, Peters, Bodvarsson)/NRC]• Discussion |

Monday, January 8, 2001 (continued)

2:40 – 2:55 PM	BREAK
2:55 – 4:15 PM	Subissue 2: Thermal Effects on Temperature, Humidity, Saturation and Flux (Continued) <ul style="list-style-type: none">• DOE Presentation [DOE(Hardin, Peters, Bodvarsson)/NRC]• Discussion
4:15 – 5:15 PM	Caucus on Subissue 2
5:15 – 5:30 PM	DOE/NRC Discussion of Resolution Status
5:30 – 5:45 PM	Closing Remarks
5:45 PM	Adjourn first day

Tuesday, January 9, 2001

8:00 – 9:00 AM	Final TEF Caucus
9:00 – 9:15 AM	Closing Remarks
9:15 AM	Adjourn TEF Meeting
9:15 – 11:30 AM	TEF Meeting Minutes / Agreement Letter development
11:30 – 11:45 AM	BREAK
11:45 – 12:05 PM	ENFE Introduction/Objectives Purpose of the Interaction
12:05 – 12:30 PM	Key Technical Issue on Evolution of the Near-Field Environment -- Summary of Status from DOE Perspective [DOE(Newbury, Barr)/NRC]
12:30 – 1:30 PM	LUNCH
1:30 – 3:20 PM	Evolution of the Near-Field Environment – Impact on TSPA [DOE(Nowak, Recharde)/NRC]
3:20 – 3:35 PM	BREAK
3:35 – 4:10 PM	Evolution of the Near-Field Environment – Impact on TSPA [DOE(Gross)/NRC]
4:10 – 4:50 PM	Subissue 1: Effects of Coupled Thermal-Hydrologic-Chemical Processes on Seepage and Flow [DOE(Sonnenthal)/NRC]
4:50 – 5:05 PM	Closing Remarks
5:05 PM	Adjourn

Wednesday January 10, 2001

8:00 – 9:30 AM Subissue 1: Effects of Coupled Thermal-Hydrologic-Chemical Processes on Seepage and Flow (continued) [DOE(Spycher, Hardin)/NRC]

9:30 – 9:45 AM BREAK

9:45 – 10:30 AM Subissue 1: Effects of Coupled Thermal-Hydrologic-Chemical Processes on Seepage and Flow (continued) [DOE(Sonnenthal)/NRC]

10:30 – 12:00 PM Caucus on Subissue 1

12:00 – 1:00 PM LUNCH

1:00 – 1:30 PM DOE/NRC Discussion of Resolution Status Subissue 1

1:30 – 2:15 AM Subissue 4: Effects of Coupled Thermal-Hydrologic-Chemical Processes on Radionuclide Transport [DOE(Houseworth)/NRC]

2:15 – 3:15 PM Caucus on Subissue 4

3:15 – 3:45 PM DOE/NRC Discussion of Resolution Status Subissue 4

3:45 – 4:40 PM Subissue 2: Effects of Coupled Thermal-Hydrologic-Chemical Processes on the Waste Package Environment [DOE(Hardin)/NRC]

4:40 – 5:10 PM Closing Remarks

5:10 PM Adjourn

Thursday January 11, 2001

8:00 – 9:30 AM Subissue 2: Effects of Coupled Thermal-Hydrologic-Chemical Processes on the Waste Package Environment [DOE(Hardin)/NRC]

9:30 – 9:45 AM BREAK

9:45 – 11:15 AM Subissue 2: Effects of Coupled Thermal-Hydrologic-Chemical Processes on the Waste Package Environment (continued) [DOE(Hardin, Gdowski)/NRC]

11:15 – 12:45 PM Caucus on Subissue 2

12:30 – 1:30 PM LUNCH

1:30 – 2:00 PM DOE/NRC Discussion of Resolution Status

2:00 – 3:20 PM Subissue 3: Effects of Coupled Thermal-Hydrologic-Chemical Processes on the Chemical Environment for Radionuclide Release [DOE(Stockman)/NRC]

3:20 – 3:35 PM BREAK

Thursday January 11, 2001 (continued)

3:35 – 4:35 PM Caucus on Subissue 3

4:35 – 5:05 PM DOE/NRC Discussion of Resolution Status

5:05 – 5:15 PM Closing Remarks

5:15 PM Adjourn ENFE Meeting

Friday January 12, 2001

8:00 – 12:00 noon ENFE Meeting Minutes / Agreement Letter Development