

April 22, 2003

MEMORANDUM TO: Janet R. Schlueter, Chief
High-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety and Safeguards

FROM: Daniel Rom, Project Manager */RA/*
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
TO DISCUSS REPOSITORY DESIGN THERMAL MECHANICAL
EFFECTS (RDTME)

DATE/TIME: May 6, 2003 8:00 a.m. - 5:00 p.m. (PT)
May 7, 2003 8:00 a.m. - 5:00 p.m. (PT)
May 8, 2003 8:00 a.m. - 10:15 a.m. (PT)

LOCATION: BSC
Room 915
9960 Covington Cross
Las Vegas, Nevada
and via videoconference to:

U.S. NRC Room O3B-4 11555 Rockville Pike Rockville, MD	Center for Nuclear Waste Regulatory Analyses Bldg 189 6220 Culebra Road San Antonio, TX
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***INTERESTED PARTIES MAY PARTICIPATE IN THE TECHNICAL EXCHANGE
VIA TELECON BY CALLING 1-702-295-6082***

PURPOSE: 1. To review and discuss the geological, rock properties testing and modeling work conducted in the past year aimed at resolution of RDTME agreement items. 2. To receive NRC feedback on DOE's resolution strategy and adequacy of data and modeling conducted thus far. 3. To define the path forward on any remaining information needs prior to a License Application submittal.

AGENDA: Attached

PARTICIPANTS:	<u>NRC</u>	<u>DOE</u>	<u>Nevada</u>	<u>NV Counties</u>
	JSchlueter	TGunter	SFrishman	INavis
	MNataraja	et al.	et. al.	et. al.
	et. al.			

CONTACT: Daniel Rom dsr@nrc.gov 301-415-6704

Category 1 meeting: The public is invited to observe this meeting and will have one or more opportunities to communicate with the NRC after the business portion, but before the meeting is adjourned.

Memorandum to J. Schlueter from D. Rom dated: April 22, 2003

cc:

A. Kalt, Churchill County, NV

R. Massey, Churchill/Lander County, NV

I. Navis, Clark County, NV

E. von Tiesenhausen, Clark County, NV

G. McCorkell, Esmeralda County, NV

L. Fiorenzi, Eureka County, NV

A. Johnson, Eureka County, NV

A. Remus, Inyo County, CA

M. Yarbrow, Lander County, NV

D. Carriger, Lincoln County, NV

M. Baughman, Lincoln County, NV

L. Mathias, Mineral County, NV

L. Bradshaw, Nye County, NV

D. Chavez, Nye County, NV

D. Hammermeister, Nye County, NV

J. Larson, White Pine County, NV

J. Ray, NV Congressional Delegation

B. J. Gerber, NV Congressional Delegation

F. Roberson, NV Congressional Delegation

T. Story, NV Congressional Delegation

J. Reynoldson, NV Congressional Delegation

L. Hunsaker, NV Congressional Delegation

S. Joya, NV Congressional Delegation

K. Kirkeby, NV Congressional Delegation

R. Loux, State of NV

M. Corradini, NWTRB

J. Treichel, Nuclear Waste Task Force

K. Tilges, Shundahai Network

M. Chu, DOE/Washington, D.C.

G. Runkle, DOE/Washington, D.C.

C. Einberg, DOE/Washington, D.C.

S. Gomberg, DOE/Washington, D.C.

W. J. Arthur, III, DOE/ORD

R. Dyer, DOE/ORD

J. Ziegler, DOE/ORD

A. Gil, DOE/ORD

W. Boyle, DOE/ORD

D. Brown, DOE/OCRWM

S. Mellington, DOE/ORD

C. Hanlon, DOE/ORD

T. Gunter, DOE/ORD

S. Morris, DOE/ORD

J. Mitchell, BSC

M. Mason, BSC

S. Cereghino, BSC

N. Williams, BSC

M. Voegele, BSC/SAIC

D. Beckman, BSC/B&A

W. Briggs, Ross, Dixon & Bell

P. Johnson, Citizen Alert

cc list (continued)

S. Frishman, State of NV	R. Holden, NCAI
S. Lynch, State of NV	B. Helmer, Timbisha Shoshone Tribe
M. Paslov Thomas, Legislative Counsel Bureau	R. Boland, Timbisha Shoshone Tribe
J. Pegues, City of Las Vegas, NV	J. Birchim, Yomba Shoshone Tribe
M. Murphy, Nye County, NV	R. Arnold, Pahrump Paiute Tribe
R. Clark, EPA	C. Meyers, Moapa Paiute Indian Tribe
R. Anderson, NEI	R. Wilder, Fort Independence Indian Tribe
R. McCullum, NEI	D. Vega, Bishop Paiute Indian Tribe
S. Kraft, NEI	J. Egan, Egan & Associates, PLLC
J. Kessler, EPRI	J. Leeds, Las Vegas Indian Center
D. Duncan, USGS	R. M. Saulque, Benton Paiute Indian Tribe
R. Craig, USGS	C. Bradley, Kaibab Band of Southern Paiutes
W. Booth, Engineering Svcs, LTD	R. Joseph, Lone Pine Paiute-Shoshone Tribe
L. Lehman, T-Reg, Inc.	L. Tom, Paiute Indian Tribes of Utah
S. Echols, ESQ	E. Smith, Chemehuevi Indian Tribe
M. Smurr, BNFL, Inc.	V. McQueen, Sr., Ely Shoshone Tribe
J. Bocoich, Big Pine Paiute Tribe of the Owens Valley (Chairman, Walker River Paiute Tribe)	R. Quintero, Inter-Tribal Council of NV
R. Mike, Duckwater Shoshone Tribe	D. Eddy, Jr., Colorado River Indian Tribes
T. Kingham, GAO	H. Jackson, Public Citizen
D. Feehan, GAO	J. Wells, Western Shoshone National Council
E. Hiruo, Platts Nuclear Publications	D. Crawford, Inter-Tribal Council of NV
G. Hernandez, Las Vegas Paiute Tribe Council	I. Zabarte, Western Shoshone National
K. Finrock, NV Congressional Delegation	NRC On-Site Representatives

Draft Agenda
REPOSITORY DESIGN THERMAL MECHANICAL EFFECTS (RDTME)
Technical Exchange

May 6, 2003 8:00 a.m. - 5:00 p.m. (PT)

May 7, 2003 8:00 a.m. - 5:00 p.m. (PT)

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Purpose of Meeting: 1. To review and discuss the geological, rock properties testing and modeling work conducted in the past year aimed at resolution of RDTME agreement items. 2. To receive NRC feedback on DOE's resolution strategy and adequacy of data and modeling conducted thus far. 3. To define the path forward on any remaining information needs prior to a License Application submittal.

May 6, 2003

8:00-8:30	DOE Licensing Lead Opening Comments NRC Opening Comments Agenda and Objectives of Meeting	Carol Hanlon Carol Hanlon/ Kirk Lachman, DOE
8:30-9:15	Review RDTME Resolution Strategy and General Overview of Work Completed on this strategy to date. Introduce topics to be covered in meeting. Discuss schedule for AMR and Analysis Report & FEPs	Mark Board, BSC
9:15-9:45	Discussion Regarding DOE's Resolution Strategy	
9:45-10:15	Caucus/Break	

Geological Analysis

10:15-10:45	Review of fracture mapping and analysis studies for input to rock modeling	Robert Lung/Mike Fahy USBR/USGS
10:45-11:00	Discussion	

May 6, 2003 (continued)

11:00 - 11:30 Review of lithophysal mapping studies and analysis David Buesch, USGS

11:30 - 12:30 Lunch

Rock Properties Determination - Laboratory and Field Testing

12:30 - 1:15 Review of Laboratory Compression Testing of Cores Ron Price, Sandia

1:15 - 3:00 Direct Shear Testing of Joints Steve Beason, USBR

1:30 - 1:45 Discussion

1:45 - 2:00 Break

2:00 - 2:45 In Situ Slot Testing Larry Costin, Sandia

2:45 - 3:00 Time Dependent and Thermal properties Ron Price, Sandia

3:00 - 3:45 Micromechanical Modeling of Lithophysal Rock David Potyondy, Itasca

3:45 - 4:00 Summary and Adequacy of Existing Testing, Additional Planned Testing, etc. Larry Costin, Sandia

4:00 - 4:30 Discussion

4:30 - 4:45 Public comments

4:45 - 5:15 Caucus

May 7, 2003

Modeling and Analysis of Drift Degradation

NRC Opening Comments

8:00 - 8:30 General overview of Methodology and Approach to Drift Degradation Modeling Mark Board, BSC

8:30 - 9:00 Discussion

9:00 - 10:00 Drift Degradation from Seismic, Thermal and Long-term Effects in Lith Rocks and Non-Lith Rocks Branko Damjanac, Itasca
Ming Lin,
Dwayne Kicker, BSC

10:00 - 10:15 Break

May 7, 2003 (continued)

10:15 - 11:30 **Continuation** - Drift Degradation from Seismic,

Thermal and Long-term Effects
in Lith Rocks and Non-Lith Rocks

11:30 - 12:00	Discussion	
12:00 - 1:00	Lunch	
1:00 - 1:30	Thermal Conductivity in the Ventilation Model	John Case, BSC
1:30 - 2:30	Ground Support Studies and Design Status	Fei Duan/ Mark Board, BSC
2:30 - 3:00	Discussion	
3:00 - 4:00	Summary of Work Efforts, Expectation for use of the Program Information in evaluating FEPs	Mark Board, BSC
4:00 - 4:15	Discussion	
4:15 - 4:30	Public comments	
4:30 - 5:00	Caucus	

May 8, 2003

8:00 - 10:00	NRC Opening Comments	
	<ul style="list-style-type: none">• Schedule for technical documents to close KTIs• Crosswalk to other KTIs	Carol Hanlon, DOE Roger Keller, BSC\
10:00 - 10:15	NRC Closing Comments DOE Closing Comments	Carol Hanlon, DOE
10:15	Adjourn	

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OFFICE	HLWB	HLWB	HLWB		
NAME	DHiggs	DRom	NKStablein		
DATE	4/22/03	4/22/03	4/22/03		

OFFICIAL RECORD COPY

**DISTRIBUTION MEMORANDUM TO J. SCHLUETER FROM D. ROM DATED:
FOR MAY 6-8 MEETING NOTICE FOR TECHNICAL EXCHANGE TO DISCUSS
REPOSITORY DESIGN THERMAL MECHANICAL EFFECTS (RDTME)**

FILE CENTER		HLWB r/f	DWM r/f	ACNW	PUBLIC	OSRs
LSN	CNWRA	CWReamer	LCampbell	ACampbell	SFlanders	BSpitzberg
WMaier	LChandler	DDambly	MYoung	ACoggins	SGagner	LKakajko
Blbrahim	JFirth	RNataraja	YKim	BJagannath	TAhn	TBloomer
PJustus	WDam	EBrummett	ACsontos	DHiggs	AULGS	PMNS