

August 2, 2000

MEMORANDUM TO: Elmo E. Collins, Acting Chief
High-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety and Safeguards

FROM: Manny Comar, Project Manager
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 ON ISSUE RESOLUTION AND THE
UNSATURATED ZONE

DATE/TIME of MEETING: August 16-17, 2000 **RESCHEDULED FROM JULY 12-13, 2000**
8:00 a.m. - 4:30 p.m. (PDT)

LOCATION: Lawrence Berkeley National Laboratory
Alvarez Road, Building 90, Room 3148
Berkeley, CA
(see map at <http://www.lbl.gov/Workplace/lab-site-map.html>)

PURPOSE: Discuss resolution of unsaturated zone issues at Yucca Mountain

AGENDA: Attached

PARTICIPANTS: NRC DOE Nevada NV Counties
NColeman RPatterson SFrishman DBechtel
HArlt CNewbury 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 "Open Meeting Statement of NRC Staff Policy," 43 Federal Register 28058, dated June 28, 1978, which details the open meeting policy for applicants and licensees.

Meeting Notice to E. E. Collins from M. Comar dated: August 1, 2000

cc: R. Loux, State of Nevada
S. Frishman, State of Nevada
L. Barrett, DOE/Wash, DC
A. Brownstein, DOE/Wash, DC
S. Hanauer, DOE/Wash, DC
C. Einberg, DOE/Wash, DC
D. Shelor, DOE/Wash, DC
N. Slater, DOE/Wash, DC
R. Dyer, YMPO
S. Brocoum, YMPO
R. Clark, YMPO
C. Hanlon, YMPO
T. Gunter, YMPO
G. Dials, M&O
J. Bailey, M&O
D. Wilkins, M&O
M. Voegelé, M&O
S. Echols, Winston & Strawn
B. Price, Nevada Legislative Committee
J. Meder, Nevada Legislative Counsel Bureau
D. Bechtel, Clark County, NV
E. von Tiesenhausen, Clark County, NV
A. Kalt, Churchill County, NV
H. Ealey, Esmeralda County, NV
L. Fiorenzi, Eureka County, NV
A. Remus, Inyo County, CA
B. Duke, Lander County, NV
J. Pitts, Lincoln County, NV
J. Wallis, Mineral County, NV
L. Bradshaw, Nye County, NV
M. Murphy, Nye County, NV
J. McKnight, Nye County, NV
B. Ott, White Pine County, NV
D. Weigel, GAO
W. Barnard, NWTRB
R. Holden, NCAI
C. Williams, NIEC
R. Arnold, Pahrump County, NV
J. Lyznicky, AMA
R. Clark, EPA
F. Marcinowski, EPA
R. Anderson, NEI
R. McCullum, NEI
S. Kraft, NEI
J. Kessler, EPRI
R. Wallace, USGS
R. Craig, USGS
W. Booth, Engineering Svcs, LTD
J. Curtiss, Winston & Strawn

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**Agenda for the Technical Exchange on the Key Technical Issue:
Unsaturated and Saturated Flow Under Isothermal Conditions
(Unsaturated Zone Process Model Report)
Lawrence Berkeley National Laboratory
Alvarez Road, Building 90, Room 3148
August 16-17, 2000**

Interested parties can participate in the meeting via telephone by calling 1-702-295-6080

Wednesday, August 16, 2000

- | | |
|-------------------|---|
| 8:00 a.m. | Introduction/Opening Remarks (DOE/NRC)
Purpose of the interaction |
| 8:20 a.m. | Key Technical Issue for Unsaturated and Saturated Flow Under Isothermal Conditions -- Identification of issues within the key technical issue that are closed and issues within the KTI that are being proposed as closed - pending confirmatory actions (DOE) |
| 8:50 a.m. | Technical Discussion of Climate Change and Hydrologic Effects of Climate Change
DOE Status -- Issue Closure |
| 9:10 a.m. | NRC Comments |
| 9:20 a.m. | Discussion |
| 9:30 a.m. | Caucus |
| 9:40 a.m. | DOE/NRC Closing Comments |
| 9:50 a.m. | Technical Discussion of Present-day Shallow Infiltration
DOE status and proposed path forward for issue closure |
| 10:40 a.m. | NRC Comments |
| 10:55 a.m. | Discussion |
| 11:30 a.m. | Caucus |
| 12:00 p.m. | DOE/NRC Closing Comments |
| 12:15 p.m. | Lunch |
| 1:45 p.m. | Technical Discussion of Matrix Diffusion
DOE status and proposed path forward for issue closure |
| 2:35 p.m. | NRC Comments |
| 2:50 p.m. | Discussion |
| 3:25 p.m. | Caucus |
| 4:00 p.m. | Closing Comments by DOE, NRC, and others |
| 4:30 p.m. | Adjourn |

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Unsaturated and Saturated Flow Under Isothermal Conditions
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Lawrence Berkeley National Laboratory
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Thursday, August 17, 2000

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|-------------------|---|
| 8:00 a.m. | Technical Discussion of Deep Percolation - Seepage into Drifts
DOE status and proposed path forward for issue closure |
| 9:00 a.m. | NRC Comments |
| 9:15 a.m. | Discussion |
| 10:00 a.m. | Caucus |
| 10:30 a.m. | Technical Discussion of Deep Percolation - UZ Flow and Transport beneath
the Repository
DOE status and proposed path forward for issue closure |
| 11:50 a.m. | NRC Comments |
| 12:05 p.m. | Lunch |
| 1:15 p.m. | Discussion |
| 2:20 p.m. | Caucus |
| 2:50 p.m. | DOE/NRC Closing Comments on Deep Percolation |
| 3:20 p.m. | Closing Discussion of the Key Technical Issue and Status and Treatment of
Features, Events, and Processes |
| 4:30 p.m. | Closing remarks by other attendees |
| 4:45 p.m. | Adjourn |