

August 7, 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 */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  
ON DISRUPTIVE EVENTS - IGNEOUS

DATE/TIME of MEETING: August 29-31, 2000  
8:00 a.m. - 6:15 p.m. (PDT)

LOCATION: The Willows Community Center  
2775 Desert Marigold Lane  
Las Vegas, NV 89135

PURPOSE: Discuss disruptive events - igneous issues at Yucca Mountain

AGENDA: Attached

PARTICIPANTS: NRC                      DOE                      Nevada                      NV Counties  
JTrapp                      CHanlon                      SFrishman                      DBechtel  
JAndersen                      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 7, 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

Draft Agenda Rev 12  
**DOE-NRC Technical Exchange Meeting**  
**IGNEOUS ACTIVITY KTI**  
**August 29 - 31, 2000**  
**Las Vegas, Nevada**

**Interested parties can participate in the August 8, 2000, agenda-setting telecon scheduled for 11:00 - 12:00 PDT (2:00 - 3:00 EDT) by calling 1-702-295-4257.**

**Objective:** Provide the basis to resolve open issues related to the Igneous Activity KTI

**Scope:** Discuss the basis to resolve open items related to the Igneous Activity KTI, determine which issues can be resolved at present, and describe path forward for any remaining open items.

**Tuesday, August 29**

- |                       |  |
|-----------------------|--|
| 8:00 – 8:15 a.m.      | Opening Remarks emphasizing that the purpose of meeting is to resolve open issues related to the Igneous Activity KTI. (Smistad, Trapp)  |
| 8:15 – 8:45 a.m.      | Miscellaneous items<br>Overview of DOE view of how subissues and integrated subissues are related and addressed.<br><br>Overview of QA process for development of PMR and AMRs and results of QA audit.              |
| 8:45 – 9:15 a.m.      | Validity of the expert elicitation process as a means to develop igneous and seismic hazard estimates and capture uncertainty. Consistent treatment of tectonic models in the PVHA and PSHA elicitations (Prob AC 8) |
| 9:15 – 9:45 a.m.      | TSPA context:  |
| 9:45 – 10:15 a.m.     | NRC discussion of above topics   |
| 10:15 – 10:30 a.m.    | BREAK<br><br>Consequences Subissues  |
| 10:30 a.m.-12:30 p.m. | PM Igneous Consequences Modeling—Extrusive Scenario (Sauer)<br><br>Development of the ASHPLUME model. Summary of bases for conservatism in methods and preliminary results   |
| 12:30 p.m. –1:30 p.m. | LUNCH  |
| 1:30 p.m.–2:30 p.m.   | NRC discussion of above items  |
| 2:30 p.m. - 2:45 p.m. | BREAK  |
| 2:45 p.m. – 4:00 p.m. | Biosphere items related to modeling the eruptive scenario  |

Draft Agenda Rev 12  
**DOE-NRC Technical Exchange Meeting**  
**IGNEOUS ACTIVITY KTI**  
**August 29-31, 2000**  
**Las Vegas, Nevada**

**Tuesday, August 29 (continued)**

4:00 p.m. – 5:00 p.m. NRC discussion of above topics

5:00 p.m. – 5:30 p.m. Caucus

5:30 p.m. – 6:00 p.m. DOE-NRC discussion of resolution status and path forward

6:00 p.m. - 6:15 p.m. Closing Remarks

6:15 p.m. Adjourn

**Wednesday, August 30, 2000**

8:00 a.m.–8:15 a.m. Opening remarks (accomplishments and plan for today) DOE-NRC

8:15 a.m.–9:30 a.m. Igneous Consequences Modeling—Intrusive Scenario

9:30 a.m. – 9:45 a.m. BREAK

9:45 a.m. –10:45 a.m. NRC discussion of above topics

10:45 a.m. –11:15 a.m. Caucus

11:15 – Noon DOE-NRC discussion of resolution status and path forward

Noon – 1:00 p.m. LUNCH

Probability Subissue

1:00 p.m. – 2:00 p.m. Probability calculations for current repository footprint

2:00 p.m. – 2:30 p.m. NRC discussion of above topics

2:30 p.m. – 2:45 p.m. BREAK

2:45 p.m. – 4:30 p.m. Development of the volcanic hazard estimate. Summary of methods and bases for conservatism in methods

4:30 p.m. – 5:30 p.m. NRC discussion of above topics

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**IGNEOUS ACTIVITY KTI**  
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**Wednesday, August 30, 2000 (continued)**

5:30 p.m. – 6:00 p.m.   Caucus

6:00 p.m. – 6:30 p.m.   DOE-NRC discussion of resolution status and path forward

6:30 p.m. – 6:45 p.m.   Closing remarks

6:45 p.m.                 Adjourn

**Thursday, August 31**

8:00 a.m. – 8:15 a.m.   Opening Remarks (accomplishments and today's topics)

8:15 a.m. – 9:45 a.m.   Probability Subissue (continued)

9:45 a.m. –10:00 a.m.   BREAK

10:00 a.m. –11:00 a.m.   NRC discussion of above topics

11:00 a.m. – Noon       Caucus

Noon – 1:00 p.m.       LUNCH

1:00 p.m. – 2:00 p.m.   DOE-NRC discussion of resolution status and path forward

2:00 p.m. – 2:30 p.m.   Closing remarks

2:30 p.m.               Adjourn

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