

NOV 20 1992

MEMORANDUM FOR: Robert L. Johnson, Section Leader
Systems Engineering and Special Projects Section
Repository Licensing & Quality
Assurance Project Directorate, HLWM

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FROM: Robert D. Carlson, Project Manager
Systems Engineering and Special Projects Section
Repository Licensing & Quality
Assurance Project Directorate, HLWM

SUBJECT: NRC/DOE INTERACTIONS SCHEDULING MEETING SCHEDULED FOR
NOVEMBER 24, 1992

The purpose of this memorandum is to provide additional information reference the subject meeting (See Meeting Announcement dated November 9, 1992). This meeting is scheduled from 11:30am to 3:30pm (EST), and will be conducted via a tele-video conference. The locations of the meeting are as follows:

Washington, D.C.
DOE, Forrestal Bldg.
Room 3E077
1000 Independence Ave.

Las Vegas, NV
Yucca Mountain Project Office
101 Convention Center Dr.
Blue Room

For those parties choosing not to attend the tele-video conference, the following bridge number, (202) 586-3220, can be dialed to obtain a direct telephonic connection to the meeting. The enclosed list comprises NRC's proposed interactions with DOE for the January - June 1993 time frame. This list is only tentative, and should be used for reference purposes during the meeting. At the meeting, NRC and DOE staff will confirm all topic, objective, scope, date, and place information for each mutually selected interaction.

If you have any questions reference this subject, please contact me at telephone extension (301) 504-2435.

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PROPOSED NRC/DOE INTERACTIONS FOR JANUARY - JUNE 1993

Topic: Waste Isolation Pilot Plant (WIPP) Round Table Discussion
(NRC Observation)

Objective: To provide NRC staff with an opportunity to observe a dialogue between representatives of the WIPP performance assessment program and the DOE Office of Civilian Radioactive Waste Management.

Scope: Discussions would focus on the performance assessment program at WIPP, and include if possible, a tour of the WIPP facility.

Date: January 1993 (tentative - requires WIPP agreement)

Place: Albuquerque, NM/Carlsbad, NM

Topic: Glass Waste Form Research (Technical Exchange)

Objective: To discuss the progress and results of both the NRC and DOE research on simulated high-level waste glass forms.

Scope: This technical exchange would focus on the DOE glass waste form research program, and especially the testing and results related to each producer's waste form (e.g., WVDP, WDPF). In addition, the NRC would discuss the results of its independent research activities on the simulated high-level waste glass samples provided by DOE.

Date: January 1993

Place: Argonne National Laboratory, IL

Topic: DOE Waste Package and Engineered Barrier System (EBS) Development Program (Technical Exchange)

Objective: To discuss the status of, and progress to date, of DOE's "Waste Package Plan," and reference EBS design.

Scope: This technical exchange would focus on the progress in DOE's implementation of the Waste Package Plan, and the technical approach for the design of the waste package and EBS. Discussion would include waste form characteristics, current waste package/ EBS conceptual design, materials selection, and current waste package program milestones.

Date: February 1993

Place: Lawrence Livermore National Laboratory, CA

Topic: Volcanism (Technical Exchange).

Objective: To discuss DOE's volcanism studies detailed in a LANL technical report and seek a DOE/NRC technical consensus on the potential impact of volcanism on the proposed repository at Yucca Mountain.

Scope: The goal of this technical exchange is a discussion with NRC that will lead to an agreement in principle on DOE's methodology employed in volcanism studies (LANL will have prepared and published a technical report summarizing the details of all Yucca Mountain Project volcanism studies to date prior to the exchange). If a consensus cannot be reached, a secondary goal is to obtain an understanding of current disagreements and clarification leading toward agreement. The feedback obtained from NRC will be used by DOE to refine the volcanism issue resolution process. The goal of the issue resolution process for this topic, is to move toward consensus between NRC and DOE staffs on the

methodology to quantify the probability of a basaltic magmatic event directly penetrating and disrupting the proposed repository.

Date: March 1993

Place: Las Vegas, NV

Topic: DOE's Approach to the Integration of Geophysical Activities With Other Site Characterization Activities (Technical Exchange)

Objective: To discuss DOE's progress towards resolving comments #51, #52, and #59 of the NRC staff review of the Site Characterization Plan (SCP), as they relate to the integration of planned geophysical activities with other site characterization activities, such as activities to investigate fault displacement hazards.

Scope: This technical exchange will focus on DOE's approach to resolving the staff's concerns with respect to the integration of geophysical survey programs with other activities, including investigations of fault displacement hazards, igneous activity hazards, and natural resources. Also, included in this interaction should be DOE's recently announced geophysical program initiative (Carl Gertz's presentation to ACNW, October 21, 1992). The NRC staff is seeking to be appraised of current plans to integrate geophysical activities into other investigations, and the results to date of geophysical prototype testing activities in relation to their ability to help define potential site hazards.

Date: April 1993

Place: Las Vegas, NV

Topic: DOE's Application of Systems Engineering to the Development of Its License Application (Technical Exchange)

Objective: To discuss DOE's application of systems engineering to the issues hierarchy/issue resolution process, repository design basis, and development of the license application annotated outline.

Scope: The goal of this technical exchange is to develop an understanding of how DOE's application of systems engineering supports the development of the repository design basis as required by 10 CFR Part 50, Appendix B - Quality Assurance Criteria, and how the Issues Hierarchy, SCP issues resolution process, and license application annotated outline issues resolution process are integrated. The goal of this technical exchange would be to develop mutual understanding of DOE program integration processes and their relationship to developing the license application. This interaction would expand upon the overview of systems engineering DOE presented at the October 1992 technical exchange. It would focus on how systems engineering is being used to integrate program activities needed to prepare the license application annotated outline

Date: May 1993

Place: Las Vegas, NV or Washington, D.C.

Topic: DOE Topical Reports (Management Meeting)

Objective: To improve the understanding of DOE's use of topical reports and NRC's plan to review them.

Scope: This management meeting would focus on a discussion of NRC staff comments on DOE's November 9, 1992, paper explaining its use of topical reports. It would also include a presentation and discussion of the NRC staff's Topical Report Review Plan (currently under preparation).

Date: June 1993 (or sooner, depending on DOE's schedule for the topical report on erosion)

Place: Las Vegas, NV

Topic: Saturated Zone Testing and Modeling (Technical Exchange)

Objective: To discuss DOE's planned characterization and modeling activities of the ground-water flow system and the saturated zone, tracer testing and assessment of the C-hole complex, and saturated zone ground-water travel time calculations and modeling.

Scope: This technical exchange would focus on relevant study plans and SCP activities related to characterization and modeling activities of the ground-water flow system and the saturated zone, tracer testing and assessments of the C-hole complex. DOE will present "Characterization of the Site Saturated Zone Ground-Water Flow System," and discuss the portions of the study that have been completed.

Date: TBD

Place: Washington, D.C.

Topic: Exploratory Studies Facility (ESF) Title II Design (Technical Exchange)

Objective: The objective of this technical exchange is to discuss the alternative that was chosen for the ESF Title II Design and to discuss the analysis and design methods that were used.

Scope: The technical exchange will focus on how the ESF of the Title II Design differs from the alternatives described in the ESF Alternatives Study, and will concentrate on the strengths and weaknesses of the Title II Design compared to

those described in the Alternatives Study. This interaction also presents an opportunity for NRC staff to become familiar with the design and analysis procedures being used by DOE.

Date: TBD

Place: Las Vegas, NV
