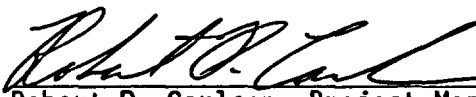



Minutes from the May 19, 1992
Interactions Scheduling Meeting

On May 19, 1992, staff from the U.S. Nuclear Regulatory Commission met at NRC headquarters with representatives from the Department of Energy (DOE) for an interactions scheduling meeting. No representatives from the State of Nevada nor affected units of local government attended, although they were notified prior to the meeting. The purpose of the meeting was to discuss and schedule interactions in the area of high-level waste management between the NRC staff and DOE from June through November 1992. A list of attendees is found in Attachment 1.

At the meeting, the NRC staff and DOE agreed to schedule seven interactions between July and November 1992. DOE agreed to investigate the scheduling of one additional interaction in June. The list of interaction topics, including the date, location, objective, and scope is provided in Attachment 2. Also, two additional topics were identified as potential future interactions that will be scheduled during 1993. Both the NRC staff and DOE agreed that there should be early discussions to establish the details of the agendas for all scheduled interactions. This entails providing mutual access to the documents and letters containing key issues on the interaction topics.

The next interactions scheduling meeting was scheduled for November 18, 1992, at NRC headquarters. This meeting will be conducted to select interactions for the first six months of 1993.

 6/2/92
Robert D. Carlson, Project Manager
Repository Licensing and Quality
Assurance Project Directorate
Office of Nuclear Material Safety
and Safeguards

 6/2/92
Linda J. Desell, Chief
Regulatory Integration Branch
Office of Civilian Radioactive
Waste Management
U.S. Department of Energy

NRC/DOE PROCEDURAL AGREEMENT OVERVIEW

- Six of nine open items closed from October 29, 1991, Procedural Agreement Meeting.

Three remaining open items:

- * Replacement of Appendix 5 (site specific agreement) with current DOE YMPD procedure for acquisition of site samples.

STATUS - Awaiting DOE final review of revised YMPD procedure.

- * Proposed revision of Appendix 7 (site specific agreement) to require NRC OR to direct all communications through DOE's Regulatory Interactions Branch vis-a-vis unfettered access.

STATUS - Awaiting newly proposed language from DOE.

- * Proposed revision of Appendix 7 (site specific agreement) to require NRC OR to request access to, review of, or copies of all relevant DOE site investigation and characterization records through a cognizant DOE manager vis-a-vis unfettered access.

STATUS - Awaiting newly proposed language from DOE.

NEW AGENDA SINCE OCTOBER 28, 1991 MEETING

- NRC proposes revision of Section 3C (site specific agreement) to allow for access and review of developed and working DOE computer codes and models.

STATUS - Awaiting DOE staff review.

- NRC proposes revision of Appendix 7 (site specific agreement) to allow for staff videotaping of inanimate features and objects. Additionally, NRC proposes to add a clause enabling it to request DOE film/videotape of live activities on-site.

STATUS - Awaiting DOE response to NRC letter Dated May 1, 1992, on videotaping issue.

May 19, 1992

NRC/DOE INTERACTIONS SCHEDULING MEETING
Attendance List

<u>Name</u>	<u>Organization</u>	<u>Phone</u>
Robert D. Carlson	NRC/HLPD	(301)504-2435
Joseph Holonich	NRC/HLPD	(301)504-3387
Thomas Bjerstedt	DOE/YMPO	(702)794-7590
Priscilla Bunton	DOE	(202)586-8365
Linda Desell	DOE	(202)586-1462
Steven E. LeRoy	CRWMS M&O/Duke	(702)794-7836
Mary L. Birch	CRWMS M&O/Duke	(702)204-8862
M. A. Haghi	CRWMS M&O/Duke	(703)204-8867
Philip Justus	NRC/HLGE	(301)504-3460
Robert Adler	CNWRA	(703)979-9129
Charlotte Abrams	NRC/HLPD	(301)504-3403
Ron Ballard	NRC/HLGE	(301)504-3462

NRC/DOE INTERACTIONS FOR JUNE - NOVEMBER 1992

Topic: DOE's Progress in Evaluating the Location and Recency of Faulting Near Proposed Surface Facilities (Technical Exchange)

Objective: To discuss DOE's progress related to on-going activities on Study Plan 8.3.1.17.4.2 for "Evaluating the Location and Recency of Faulting Near Prospective Surface Facilities." By reviewing the results of activities to date on this study, this exchange is intended to facilitate future NRC reviews of topical reports that may address aspects of this issue.

Scope: In reviews of the Site Characterization Plan (SCP) and Study Plan 8.3.1.17.4.2, the staff noted concerns with the site characterization program related to the investigation of Quaternary faults in the vicinity of facilities important to safety, containment, and/or waste isolation. Activities in Midway Valley [proposed site of repository surface facilities], including geologic mapping and trenching, have been on-going since July 1991 with several interim reports published (i.e., SAND90-2491 and SAND91-0607). This technical exchange will be focused on the results of the investigations to date, including the stratigraphy and structure of Quaternary deposits in Midway Valley, as well as planned future activities including, if applicable, planned geophysical methods. During the technical exchange the NRC staff is seeking to be appraised of current estimates of the level of fault displacement hazards and seismic hazards in Midway Valley.

Date: June 23-24, 1992 (Tentatively Scheduled)

Place: Las Vegas, NV/Yucca Mountain, NV

Topic: Use of NRC's "Three Bucket Approach" for Implementation of 40 CFR 191 (Technical Exchange)

Objective: To discuss the NRC's proposed "Three Bucket Approach" by examining the implementation of trial examples.

Scope: The technical exchange would consist of the NRC, EPA, and DOE providing a demonstration and discussion of the use of the "Three Bucket Approach" by using trial examples for the implementation of the standard. These discussions would focus on clarification of the "Three Bucket Approach", understanding the equivalency of the NRC approach to the EPA standard, understanding the implementation of the "Three Bucket Approach", and judging its stringency.

Date: July 22, 1992

Place: Las Vegas, NV

Topic: Agreement on Format and Content of DOE Yucca Mountain Study Plans of May 7-8, 1986 (Meeting)

Objective: Renegotiate the DOE/NRC agreement on Yucca Mountain study plans.

Scope: The meeting would provide a forum to discuss:
(1) the DOE scientific investigation control process used by YMPO for field work; (2) desired changes to the concept, scope, and content of study plans; and
(3) a text mark-up of the current agreement.

Date: July 23, 1992

Place: Las Vegas, NV

Topic: Approach to Resolving Volcanism-Related
Study Plan and Site Characterization Analysis
(SCA) Concerns (Technical Exchange)

Objective: To discuss DOE's approach to the
resolution of volcanism-related concerns
as identified in staff reviews of the
Site Characterization Plan and Study Plans
8.3.1.8.1.1 (Probability of Magmatic
Disruption of Repository) and 8.3.1.8.5.1
(Characterization of Volcanic Features)

Scope: In reviews of the Site Characterization Plan
and Study Plans 8.3.1.8.1.1 and 8.3.1.8.5.1,
the staff noted concerns with the approach to
the consideration features related to volcanism
in assessments of repository performance, and
the role of expert judgement in Study Plan
8.3.1.8.1.1. This technical exchange will be
limited largely to NRC input prior to potential
revisions to Study Plan 8.3.1.8.1.1, and to better
frame the scope for the November 1992 exchange on
volcanism.

Date: August 25, 1992

Place: DOE Forrestal Bldg. or Vienna, VA/Las Vegas, NV
(via video conference)

Topic: Center for Nuclear Waste Regulatory Analyses
Application of Systems Engineering (Technical Exchange)

Objective: DOE desires to learn about NRC/CNWRA application
of systems engineering to the High-Level Waste
repository licensing program.

Scope: This technical exchange would discuss NRC/CNWRA
utilization of systems engineering techniques to
include: systematic analysis of 10 CFR Part 60 for
the purpose of identifying and resolving regulatory
and institutional uncertainties; definition of
regulatory requirements; preparation of regulatory

guidance on technical issues as well as on the format and content of the license application and the procedures to be used for license application review; integration and prioritization of regulatory program work; and functional analysis of the repository physical system.

Date: September 29, 1992

Place: San Antonio, TX

Topic: Waste Isolation Pilot Plant (WIPP) Round Table Discussion (NRC observation of a DOE meeting)

Objective: To provide NRC staff with an opportunity to observe a dialogue between representatives of the WIPP performance assessment program and the 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: October 27-28, 1992 (Tentative; requires WIPP agreement)

Place: Albuquerque, NM/Carlsbad, NM

Topic: Total System Performance Assessment (TSPA) (Technical Exchange)

Objective: To discuss the methods and the results of DOE's Performance Assessment Calculation Exercise (PACE) TSPA, and the NRC's Interactive Performance Assessment Phase 2, and the effects of those exercises on evolving TSPA methodology.

Scope: This technical exchange would focus on the discussion of modeling activities, results of, and recommendations from the completed iteration of DOE's PACE TSPA program. It would also include a discussion of progress on the NRC's Iterative Performance Assessment Phase 2.

Date: October 29, 1992

Place: Albuquerque, NM

Topic: Volcanism (Technical Exchange)

Objective: To discuss DOE 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: November 17, 1992

Location: Washington, DC

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 groundwater 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: 1993

Place: TBD

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 (e.g. WVDP, WDPF) waste form. 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: 1993

Place: TBD
