

7/1/88

Mr. Ralph Stein, Acting Associate Director  
Office of Systems Integration and Regulation  
Office of Civilian Radioactive Waste Management  
U. S. Department of Energy RW-24  
Washington, D. C. 20545

Dear Mr. Stein:

This letter transmits the agenda for the DOE/NRC meeting, scheduled for July 18-19, 1988, to discuss NRC concerns related to the proposed exploratory shaft facility (ESF) and the method/schedule for their resolution. In addition we understand that the DOE will explain how its ESF design process considers and implements the requirements of 10 CFR Part 60.

Should you have any questions or require additional information, please do not hesitate to contact me at 492-3406.

Sincerely,

/s/

John J. Linehan, Acting Chief  
Operations Branch  
Division of High-Level Waste Management

Enclosure: As stated

cc: C. Gertz, DOE  
R. Loux, State of Nevada

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## AGENDA

NRC/DOE MEETING ON  
EXPLORATORY SHAFT FACILITY  
JULY 18-19, 1988  
WHITE FLINT, MARYLAND

OBJECTIVES: The objectives of the meeting are (1) for DOE to explain how their ESF design process considers and implements the requirements of 10 CFR 60; and (2) for DOE to respond to selected NRC concerns related to the proposed ESF.

The items on this agenda are those that need to be satisfactorily addressed by DOE in order for NRC to remove their three ESF-related objections to the CDSCP. All these items will be discussed during the meeting, with the depth of technical discussion depending on the status of the DOE ESF program. Where DOE is not prepared to engage in substantive technical discussion, they will describe the activities planned or ongoing to resolve a particular item, discuss the status of such activities, and provide a schedule for further interaction with NRC to bring that item to closure.

In the event that some agenda items on July 18 require less time than projected, items scheduled for discussion on the second day of the meeting, July 19, may be moved up for discussion on July 18. Likewise, items scheduled for afternoon discussion either day may be moved up to the morning session.

July 18, 1988

OPENING STATEMENTS (8:30 a.m.)

NRC  
DOE  
STATE OF NEVADA

SCOPE OF MEETING

o Major NRC Concerns

NRC

- ESF Design Process
- Penetration into Calico Hills
- ESF Design (Interference Concerns)
- Shaft Locations

o DOE Approach to Address NRC Concerns

DOE

OVERVIEW OF ESF DESIGN PROCESS

DOE

o Introduction

o ESF Design Process and Organization Interfaces

BREAK

## ESF DESIGN RESPONSIVENESS TO 10 CFR 60

DOE

- o Introduction
- o ESF Design Approach
  - Documents Laying out DOE's Design Process
  - Hierarchy of Documents Implementing the Regulations - Systems Engineering Management Plan
  - Generic Requirements of Mined Geological Disposal System
  - Appendix E of Generic Requirements
  - Subsystem Design Requirements Document
  - Examples of Considerations of 10 CFR 60 Requirements in the ESF Design
- o Verification Process for Implementation of 10 CFR 60 Requirements in ESF Design

## QUESTIONS ON RESPONSIVENESS OF DESIGN

ALL

BREAK

## MAJOR ESF DESIGN CHANGES UNDER CONSIDERATION AS A RESULT OF 50% DESIGN REVIEW MEETING COMMENTS

DOE

## RESPONSE TO NRC CDSCP-POINT-PAPERS OBJECTION #2 (PENETRATION INTO CALICO HILLS)

DOE

BREAK

## RESPONSE TO NRC CDSCP-POINT-PAPERS OBJECTION #3 (ESF DESIGN/INTERFERENCE CONCERNS)

DOE

- o Shaft Spacing
  - Spacing Considerations
  - Effect of One Shaft on the Other
- o Interference
  - Between Tests at Main Test Area Level and Shafts
  - Between Shafts and Future Emplaced Waste

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July 19, 1988

RESPONSE TO NRC CDSCP-POINT-PAPERS OBJECTION  
#4 (SHAFT LOCATIONS)

DOE

- o Infiltration around Shafts
  - Coyote Wash Drainage Area
  - Extent of Alluvium Boundary
  - Effects of Cut and Fill, Pads and Road Construction on Flooding Potential
  - Margin of Safety against Flooding and Infiltration around Shafts
  - Potential Effects of Infiltration on Exploratory Testing around ES-1

## BREAK

- o Sealing and Free Drainage Concept
  - Sealing Design

## LUNCH

- o Long-term Drainage Performance (Clogging Potential)
  - Thermal Effects
  - Chemical Effects
  - Mechanical Effects

DOE

## BREAK

- o Consideration of Preliminary Performance Assessment during the ESF Design Stage
  - Basis
  - Approach
  - Assumptions
  - Methodology
  - Data Available
  - Uncertainties

## CLOSING COMMENTS

NRC  
DOE  
STATE OF NEVADA

## MEETING SUMMARY

NRC  
DOE  
STATE OF NEVADA