

OCT 20 1993

Mr. Dwight E. Shelor, Associate Director  
for Systems and Compliance  
Office of Civilian Radioactive Waste Management  
U. S. Department of Energy  
1000 Independence Avenue, SW  
Washington, DC 20585

Dear Mr. Shelor:

**SUBJECT: ACCEPTANCE REVIEW OF THE ANNOTATED OUTLINE FOR THE TOPICAL REPORT  
TITLED "SEISMIC HAZARDS METHODOLOGY FOR YUCCA MOUNTAIN"**

The subject of this letter is the Nuclear Regulatory Commission's acceptance review of the annotated outline of the U.S. Department of Energy (DOE) Topical Report, "Seismic Hazards Methodology for Yucca Mountain," dated August 17, 1993. This review was conducted in accordance with the guidelines established in the NRC Division of High-Level Waste Management Topical Report Review Position Paper, provided to DOE on April 7, 1993. As a result of this review, the NRC staff has the following observations:

1. The subject of the annotated outline appears to qualify as a suitable topic for a topical report.
2. The staff has identified a concern related to the scope of the topical report. It is noted that the major part of the outline discusses vibratory ground motion and little is said about fault displacement hazard. The staff is not certain to what extent fault displacement hazard will be covered in this report. Also, it is suggested that the title of the topical report should reflect that it addresses both vibratory ground motion hazard and fault displacement hazard.
3. The staff also has a concern regarding the traditional deterministic evaluations referenced in the last paragraph on Page 2 of the annotated outline. The staff will, in part, focus its review of the topical report on how the results from the traditional deterministic evaluations will be compared to the hybrid approach, and how much emphasis will be placed on the traditional deterministic evaluations for the design of facilities important to safety.

26-113

1020.2  
WM-11  
NH14 1/0

Mr. Dwight E. Shelor

2

If you have any questions concerning this review, please contact Charlotte Abrams, of my staff, at 301 504-3403.

Sincerely,

Joseph J. Holonich, Director  
Repository Licensing and Quality  
Assurance Project Directorate  
Division of High-Level Waste  
Management  
Office of Nuclear Material Safety  
and Safeguards

- cc: R. Loux, State of Nevada
- T. J. Hickey, Nevada Legislative Committee
- J. Meder, Nevada Legislative Counsel Bureau
- C. Gertz, DOE/NV
- M. Murphy, Nye County, NV
- M. Baughman, Lincoln County, NV
- D. Bechtel, Clark County, NV
- D. Weigel, GAO
- P. Niedzielski-Eichner, Nye County, NV
- B. Mettam, Inyo County, CA
- V. Poe, Mineral County, NV
- F. Sperry, White Pine County, NV
- R. Williams, Lander County, NV
- L. Fiorenzi, Eureka County, NV
- J. Hoffman, Esmeralda County, NV
- C. Schank, Churchill County, NV
- L. Bradshaw, Nye County, NV

DISTRIBUTION

CNWRA  
LPDR  
BJYoungblood, HLWM  
JHolonich, HLPD

NMSS R/F  
ACNW  
JLinehan, HLWM  
On-Site Reps

HLPD R/F  
PDR  
MFederline, HLHP

LSS  
CENTRAL FILE

OFC	<i>JH</i>	<i>E</i>	HLGE	<i>F</i>	HLPD		
NAME	<i>P</i> Prestholt/dh	<i>R</i>	RBallard	<i>JH</i>	JHolonich		
DATE	10/18/93		10/20/93	<i>JH</i>	10/20/93		

C = COVER

E = COVER & ENCLOSURE

N = NO COPY

g:\seis.ptp

OFFICIAL RECORD COPY