



Department of Energy
Office of Civilian Radioactive Waste Management
Yucca Mountain Site Characterization Office
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QA: N/A

APR 25 2001

OVERNIGHT MAIL

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**TRANSMITTAL OF PRELIMINARY SEISMIC DESIGN INPUT DATA SETS USED IN SITE
RECOMMENDATION DESIGN ANALYSES**

During the Repository Design and Thermal-Mechanical Effects Technical Exchange (RDTME) in February 2001, the U.S. Department of Energy agreed to "provide the preliminary seismic design input data sets used in Site Recommendation design analyses to the Nuclear Regulatory Commission (NRC) by April 2001." The enclosed table delineates the requested preliminary seismic data and includes the Data Tracking Number as a unique identifier for each seismic data set. The seismic data listed in the enclosed table are provided on compact disc as enclosure 2 and satisfies, in part, RDTME agreement item 2.2.

Please direct any questions concerning this letter and the enclosure to Timothy C. Gunter at (702) 794-1343 or J. Timothy Sullivan at (702) 794-5589.

Stephan Brocoum
Assistant Manager, Office of
Licensing and Regulatory Compliance

OL&RC:TCG-1098

Enclosures:

1. Table of Preliminary Seismic Design Input Data
Sets Used in Site Recommendation Design Analyses
2. Electronic Files of Preliminary Seismic Design
Input Data Sets (six data sets per CD)

WM-11
NM5507

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cc w/encls 1 and 2:

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cc w/encl 1 (continued):

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OL&RC Library
Records Processing Center =
(ENCLS = READILY AVAILABLE)

Preliminary Seismic Design Input Data Sets Used in Site Recommendation Design Analyses

Data Tracking Number	Data Description
MO0004SEPPGVRB.006	Preliminary ¹ Seismic Design Peak Ground Velocity for the Repository Level (Point B)
MO0003SEPSDARS.002	Preliminary Seismic Design Acceleration Response Spectra for the Repository Level (Point B).
MO0004SEPTHWHB.010	Preliminary Seismic Design Acceleration Time Histories for the Waste Handling Building (Point D).
MO0004SEPSPWHB.011	Preliminary Seismic Design Strain Compatible Properties for the Waste Handling Building (Point D).
MO0008SEPPGVRL.020	Preliminary Seismic Design Peak Ground Velocity for the Repository Level (Point B) for 10-5 Annual Exceedence Probability.
MO0004MWDRIFM3.002 ²	Results of the Yucca Mountain Probabilistic Seismic Hazard Analysis (PSHA).

¹ The term "preliminary" signifies that these data are currently unqualified. These preliminary seismic design data may be superseded in FY 2002 after additional site characterization data are evaluated and incorporated into the site response analyses.

² These are qualified data.