



**Department of Energy**  
Office of Civilian Radioactive Waste Management  
Yucca Mountain Site Characterization Office  
P.O. Box 30307  
North Las Vegas, NV 89036-0307

QA: N/A

**APR 25 2001**

**OVERNIGHT MAIL**

C. William Reamer, Chief  
High-Level Waste and Performance  
Assessment Branch  
Division of Waste Management  
Office of Nuclear Materials Safety  
and Safeguards  
U.S. Nuclear Regulatory Commission  
Two White Flint North  
Rockville, MD 20852

**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

C. William Reamer

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cc w/encls 1 and 2:

J. W. Anderson, NRC Rockville, MD  
 A-B. K. Ibrahim, NRC, Rockville, MD  
 P. S. Justus, NRC, Rockville, MD  
 C. J. Glenn, NRC, Las Vegas, NV  
 S. H. Hanauer, DOE/HQ (RW-2), Las Vegas, NV  
 B. J. Garrick, ACNW, Rockville, MD  
 Richard Major, ACNW, Washington, DC  
 W. D. Barnard, NWTRB, Arlington, VA  
 Budhi Sagar, CNWRA, San Antonio, TX  
 W. C. Patrick, CNWRA, San Antonio, TX  
 Steve Kraft, NEI, Washington, DC  
 J. H. Kessler, EPRI, Palo Alto, CA  
 F. S. Echols, Winston & Strawn, Washington, DC  
 J. R. Curtiss, Winston & Strawn, Washington, DC  
 R. R. Loux, State of Nevada, Carson City, NV  
 John Meder, State of Nevada, Carson City, NV  
 Alan Kalt, Churchill County, Fallon, NV  
 D. A. Bechtel, Clark County, Las Vegas, NV  
 Harriet Ealey, Esmeralda County, Goldfield, NV  
 Leonard Fiorenzi, Eureka County, Eureka, NV  
 Andrew Remus, Inyo County, Independence, CA  
 Michael King, Inyo County, Edmonds, WA  
 Mickey Yarbrow, Lander County, Battle Mountain, NV  
 Jason Pitts, Lincoln County, Caliente, NV  
 L. W. Bradshaw, Nye County, Pahrump, NV  
 Jerry McKnight, Nye County, Tonopah, NV  
 Judy Shankle, Mineral County, Hawthorne, NV  
 Josie Larson, White Pine County, Ely, NV  
 R. I. Holden, National Congress of American Indians, Washington, DC  
 Allen Ambler, Nevada Indian Environmental Coalition, Fallon, NV

cc w/encl 1:

N. K. Stablein, NRC, Rockville, MD  
 S. L. Wastler, NRC, Rockville, MD  
 D. J. Brooks, NRC, Rockville, MD  
 W. L. Belke, NRC, Las Vegas, NV  
 L. H. Barrett, DOE/HQ (RW-1) FORS  
 A. B. Brownstein, DOE/HQ (RW-52) FORS  
 R. A. Milner, DOE/HQ (RW-2) FORS  
 N. H. Slater, DOE/HQ (RW-52) FORS  
 Nancy Williams, BSC, Las Vegas, NV  
 S. J. Cereghino, BSC, Las Vegas, NV  
 J. G. Linhart, NSNFP, Las Vegas, NV  
 J. H. Smyder, Naval Reactors, Las Vegas, NV

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C. William Reamer

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cc w/encl 1 (continued):

R. B. Bradbury, MTS, Las Vegas, NV  
K. M. Cline, MTS, Las Vegas, NV  
J. R. Dyer, DOE/YMSCO, Las Vegas, NV  
D. G. Horton, DOE/YMSCO, Las Vegas, NV  
George Hellstrom, DOE/YMSCO, Las Vegas, NV  
Stephan Brocoum, DOE/YMSCO, Las Vegas, NV  
D. R. Williams, DOE/YMSCO, Las Vegas, NV  
K. D. Lachman, DOE/YMSCO, Las Vegas, NV  
A. V. Gil, DOE/YMSCO, Las Vegas, NV  
S. P. Mellington, DOE/YMSCO, Las Vegas, NV  
J. M. Replogle, DOE/YMSCO, Las Vegas, NV  
E. T. Smistad, DOE/YMSCO, Las Vegas, NV  
T. C. Gunter, DOE/YMSCO, Las Vegas, NV  
C. L. Hanlon, DOE/YMSCO, Las Vegas, NV  
J. T. Sullivan, DOE/YMSCO, Las Vegas, NV  
C. A. Kouts, DOE/YMSCO (RW-2) FORS  
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 <sup>1</sup> 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 <sup>2</sup>	Results of the Yucca Mountain Probabilistic Seismic Hazard Analysis (PSHA).

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

<sup>2</sup> These are qualified data.