

# Center for Nuclear Waste Regulatory Analyses

6220 CULEBRA ROAD • P.O. DRAWER 28510 • SAN ANTONIO, TEXAS, U.S.A. 78228-0510  
(210) 522-5160 • FAX (210) 522-5155

June 22, 1998  
Contract No. NRC-02-97-009  
Account No. 20-1402-471

U.S. Nuclear Regulatory Commission  
ATTN: Philip S. Justus  
Office of Nuclear Material Safety and Safeguards  
Two White Flint North  
Mail Stop 7 C6  
Washington, DC 20555

Subject: Submission of Intermediate Milestone 20-1402-471-840, Patterns of Ground Motion Amplitudes from Numerically Simulated Earthquakes

Dear Dr. Justus:

Enclosed is IM 1402-471-840 entitled - Patterns of Ground Motion Amplitudes from Numerically Simulated Earthquakes. The present study examines the effects of subsurface geometry on the pattern of ground motion amplitudes. The 2-D numerical analysis suggests that the maximum ground motion occurs at the location where the energy traveling normal to the fault plane first contacts the earth's surface. This manuscript was reviewed by two seismic experts, Drs. Martin McCann and Fumiko Tajima. Their comments, which were very valuable, have been resolved to their satisfaction. This manuscript will be submitted to the Bulletin of the Seismological Society of America upon acceptance by the NRC.

If you have any questions please contact Dr. Goodluck Ofoegbu at (210) 522-6641 or me at (210) 522-5183.

Sincerely,

  
H. Lawrence McKague  
Manager, Geology and Geophysics

/adm  
Enclosure

cc:	J. Linehan	J. Austin	CNWRAs Element Managers
	D. DeMarco	M. Bell	S. Boyanowski (SwRI Contracts)
	B. Stiltenspole	J. Thoma	G. Ofoegbu
	B. Meehan	B. Ibrahim	D. Ferrill
	J. Greeves	W. Patrick	K. Smart
	M. Federline	CNWRAs Directors	J. Stamatakos

D:\McKague\Letmem\Nm0698021m



9807160114 980622  
PDR WASTE  
WM-11 PDR

Washington Office • Twinbrook Metro Plaza, #210 • 12300 Twinbrook Parkway • Rockville, Maryland 20852-1606

1/1  
NTTIS  
426.1  
WM-11  
Delete all  
dist except  
Filer  
POR