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October 2, 2003  
Contract No. NRC-02-02-012  
Account No. 06002.01.061

U.S. Nuclear Regulatory Commission  
ATTN: Mrs. Deborah A. DeMarco  
Office of Nuclear Material Safety and Safeguards  
Mail Stop 8 A23  
Washington, DC 20555-0001

Subject:            Submittal of slides and poster for three presentations: (1) A physical analog model of extensional deformation in the Yucca Mountain region, Nevada (oral presentation); (2) Methodology for analysis of fracture reactivation in response to thermally induced stresses at the proposed Yucca Mountain repository (oral presentation); and (3) Geophysical evidence for two distinct Miocene and Quaternary slip rates on the Bare Mountain fault, Nevada (poster presentation).

Dear Mrs. DeMarco:

The purpose of this letter is to transmit to NRC the subject presentations for programmatic review. The abstracts were previously submitted for approval. An additional unsigned copy of form NRC390A has been attached for each presentation for use by the NRC Program Element Manager. Please note that the title of subject item 2 has changed slightly. The talks and poster will be presented at the Geological Society of America Annual Meeting and Exposition to be held November 2-5, 2003, in Seattle, Washington.

These presentations document technical work that supports current issue resolution with the U.S. Department of Energy. In addition, this technical work has led to a better understanding of the tectonic setting of Yucca Mountain and provided fundamental components in the evaluation of the performance of the proposed repository at Yucca Mountain, Nevada.

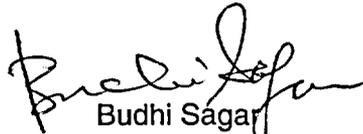


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Should you have any questions regarding these, please contact Dr. John Stamatakos at (210) 522-5247 or Dr. H. Lawrence McKague at (210) 522-5183.

Sincerely,



Budhi Sagar  
Technical Director

/slo  
Attachment

M. Leach	B. Meehan	L. Campbell	W. Patrick	D. Waiting
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E. Whitt	K. Stablein	J. Trapp	J. Stamatakos	CNWRAs Dirs./EMs (letter only)
		M. Young (OGC)	D. Sims	Record Copy B (SwRI IQS)
				A. Morris (UTSA)