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Geosciences and Engineering Division
6220 Culebra Road • San Antonio, Texas, U.S.A. 78238-5166
(210) 522-5160 • Fax (210) 522-5155

December 28, 2005
Contract No. NRC-02-02-012
Account No. 20.06002.01.322

U.S. Nuclear Regulatory Commission
ATTN: Mrs. Deborah A. DeMarco
Division of High-Level Waste Repository Safety
Two White Flint North
11545 Rockville Pike
Mail Stop T8 A23
Washington, DC 20555

Subject: Programmatic review of a paper for publication in the 2006 International High-Level Radioactive Waste Management Conference Proceedings; AI06002.01.322.602

Dear Mrs. DeMarco:

Enclosed is the following Paper with form 390A being submitted for NRC programmatic review.

Independent Evaluation of Waste Package Under the Potential Yucca Mountain Repository Conditions authored by Y.-M. Pan, K.C. Chiang, D.S. Dunn, X. He, O. Pensado, P. Shukla, and L. Yang

This paper summarizes the results of the experimental and modeling studies focused on uniform, localized, and microbially influenced corrosion, and stress corrosion cracking of Alloy 22. Independent investigations are being carried out to assist in the understanding of the significance of waste package degradation processes to waste isolation of the potential high-level waste repository at Yucca Mountain. The results presented in this paper are drawn from five intermediate milestone reports and four conference papers that were approved previously by NRC.

Please advise me of the results of your programmatic review. If you have any questions regarding this paper, please contact me at (210) 522-5185 or Yi-Ming Pan at (210) 522-6640. Your cooperation in this matter is appreciated.

Sincerely,


Sitakanta Mohanty
Assistant Director

SM:jg

cc: W. Reamer	M. Bailey	T. McCartin	D. Galvin	D. Dunn	<u>Ltr only</u>
V. Whipple	K. Stablein	D. Brooks	W. Patrick	X. He	GED Directors & Managers
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Independent Evaluation of Waste Package under the Potential Yucca Mountain Repository Conditions

2. AUTHOR(s)

Y.-M. Pan, K.C. Chiang, D.S. Dunn, X. He, O. Pensad, P. Shukla, and L. Yang

3. NAME OF CONFERENCE, LOCATION, AND DATE(s)

2006 International High-Level Radioactive Waste Management Conference, April 30-May 4, 2006, Las Vegas, Nevada

4. NAME OF PUBLICATION

2006 IHLRWM Conference Proceedings

5. NAME AND ADDRESS OF THE PUBLISHER

American Nuclear Society
555 North Kensington Avenue
La Grange Park, IL 60526

TELEPHONE NUMBER OF THE PUBLISHER

(708) 579-8253

6. CONTRACTOR NAME AND COMPLETE MAILING ADDRESS (Include ZIP code)

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Southwest Research Institute
6220 Culebra Road
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