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June 10, 2005
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U.S. Nuclear Regulatory Commission
ATTN: Mrs. Deborah A. DeMarco
Office of Nuclear Material Safety and Safeguards
Division of High-Level Waste Repository Safety
Two White Flint North
11545 Rockville Pike
Mail Stop T7-J8
Washington, DC 20555

Subject: Programmatic Review of Abstract for the 2005 Geological Society of America
Annual Meeting

Dear Mrs. DeMarco:

The enclosed abstract and form 390A are being submitted for NRC programmatic review. This abstract is planned to be presented as an invited talk at the 2005 Geological Society of America Annual Meeting to be held on October 16-19, 2005, in Salt Lake City, Utah. The title of the abstract is

**Thermodynamics of Hydrothermal Uranyl Mineral Formation at Nopal I
by William Murphy, California State University at Chico**

This talk will present alternative interpretations of information from the Nopal I analog, addressing alteration of primary uraninite to a series of secondary uranyl minerals.

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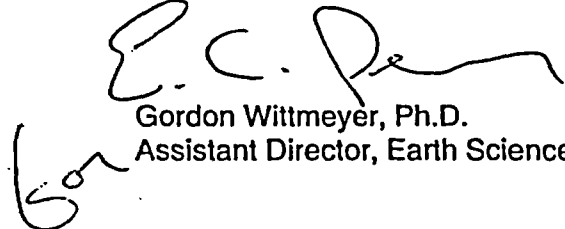


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Mrs. Deborah A. DeMarco
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Please advise me of the result of your programmatic review. If you have any questions regarding this abstract, please contact Dr. English Pearcy at (210) 522-5540.

Sincerely,



Gordon Wittmeyer, Ph.D.
Assistant Director, Earth Sciences

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Enclosures: Abstract
NRC Form 390A

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