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March 29, 2006
Contract No. NRC-02-02-012
Account No. 20.06002.01.262

U.S. Nuclear Regulatory Commission
ATTN: Mrs. Deborah A. DeMarco
Division of High-Level Waste Repository Safety
Office of Nuclear Material Safety and Safeguards
Mail Stop 7 F3
Washington, DC 20555

Subject: Programmatic Review of Presentation for the International High-Level Radioactive Waste Management Conference (AI 20.06002.01.262.604)

Dear Mrs. DeMarco:

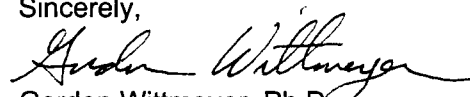
This material will be presented at the at the 2006 International High Level Radioactive Waste Management Conference to be held April 30–May 4, 2006, in Las Vegas, Nevada. The title of the presentation is

“Thermohydrological Model Uncertainty Reduction Using Physical Analog Models”
by R.T. Green and S.L. Painter

This presentation summarizes analyses of laboratory-scale and field-scale heater experiments to help reduce uncertainty in thermohydrological conceptual and numerical models. Measurements of temperature and saturation from the two tests provide an opportunity to evaluate the capability of a multiphase simulator, MULTIFLO®, to replicate the thermohydrological processes observed during the tests. These analyses and the associated reduction in uncertainty are important because MULTIFLO is used to evaluate the performance of a geologic repository located in fractured porous media.

Please advise me of the results of your programmatic review. Your cooperation in this matter is appreciated.

Sincerely,



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

/ph

Enclosures: Presentation
NRC Form 390A

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Thermohydrological Model Uncertainty Reduction Using Physical Analog Models

2. AUTHOR(s)
R. Green and S. Painter

3. NAME OF CONFERENCE, LOCATION, AND DATE(s)
International High Level Radioactive Waste Management Conference Las Vegas, NV April 30 - May 4, 2006

4. NAME OF PUBLICATION
Proceedings

5. NAME AND ADDRESS OF THE PUBLISHER American Nuclear Society Scientific Publication Office 555 North Kensington Ave. LaGrange Park, IL 60526	TELEPHONE NUMBER OF THE PUBLISHER (708) 579-8253
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