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> May 8, 2008 Contract No. NRC-02-07-006 Account No. 20.14003.01.007 NMSS06n—PROJ0734, PROJ0735

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Mr. Michael Fuller
Division of Waste Management and Environmental Protection
Two White Flint North
Mail Stop: 8F5
11555 Rockville Pike
Washington, DC 20852

Subject:

Programmatic Review of Abstract for AI 14003.01.007.801

Dear Mr. Fuller:

The enclosed abstract, NRC Form 390A, and Checklist are being transmitted for programmatic review. This abstract is planned to be presented at the 2008 Materials Research Society fall meeting to be held December 1–5, 2008, in Boston, Massachusetts. The title of the abstract is

Assessing Radionuclide Solubility Limits for Cement-Based, Near-Surface Disposal by D. Pickett, K. Pinkston, and J. Myers Center for Nuclear Waste Regulatory Analyses

San Antonio, Texas

2U.S. Nuclear Regulatory Commission

Washington, DC

The abstract reports on radioelement solubility limits modeled for selenium, technetium, uranium, neptunium, and plutonium in chemical environments relevant to the U.S. Department of Energy (DOE) saltstone and grouted tank disposal systems. These models, along with literature review, provide recommended ranges of values for staff to consider when reviewing radionuclide release models in DOE assessments demonstrating compliance with performance objectives.

Mr. Michael Fuller Page 2 May 8, 2008

If you have any questions about this abstract, do not hesitate to contact me (210.522.2139) or Dr. David Pickett (210.522.5582).

Şincerely,

David Turner, Ph.D. **Assistant Director**

Environmental Science and Environmental Engineering

DRT/nn enclosure

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