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July 31, 2012 Contract No. NRC-02-07-006 Project No. 14014 Job Code: J5705

ATTN: Document Control Desk U.S. Nuclear Regulatory Commission Mr. Yawar Faraz Office of Nuclear Material Safety and Safeguards Division of Spent Fuel Alternative Strategies/PMB 11555 Rockville Pike Mail Stop: EBB–E2B2 Rockville, MD 20852

Subject: AI 14014.01.001.215: Subtask A2: Draft Report—Reference Design for Reprocessing Spent Nuclear Fuel Through COEX-Like Process

Dear Mr. Faraz:

This letter documents completion of the subject administrative item prepared as part of the Quantitative Hazards Methods Development in Support of the DOE/NRC Interagency Agreement. The deliverable comprises one Microsoft[®] Word file contained in the following SharePoint[®] folder:

Reprocessing Project > Quantitative Hazards > Subtask A2 > AI 14014.01.001.215

The draft document, "Reference Design for Reprocessing Spent Nuclear Fuel Through COEX-Like Process," contains a summary of the mass balance calculations and preliminary reference design information for aqueous reprocessing. The report contains information collected from the open literature. The final report will be completed after receiving feedback from the NRC staff.

If you have any questions regarding this report, please contact Dr. Biswajit Dasgupta at (210) 522-6815 or me at (210) 522-6640.

Sincerely yours

Yi-Ming Pán, Ph.D. Program Manager Integrated Spent Fuel Regulatory Program for Reprocessing and Long-Term Storage of High-Level Waste and Spent Fuel

BD/YP/bs cc: <u>NRC</u> V. Whipple D. DeMarco R. Jackson

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