

September 20, 2006

James M. Shuler
Manager, Packaging Certification Program
Safety Management and Operations
Office of Environmental Management
Department of Energy
Washington, DC 20585

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR REVIEW OF
THE CERTIFICATE OF COMPLIANCE NO. 9315, REVISION 2,
FOR THE MODEL NO. ES-3100 PACKAGE

Dear Dr. Shuler:

By letter dated August 24, 2006, the U.S. Department of Energy (DOE) submitted an application in accordance with 10 CFR Part 71 for an amendment to Certificate of Compliance (CoC) No. 9315 for the Model No. ES-3100 package. Supporting documentation was submitted via letter dated August 21, 2006.

In connection with our review, we need the information identified in the enclosure to this letter. Additional information requested by this letter should be submitted in the form of revised pages. To assist us in scheduling staff review of your response, we request that you provide this information by December 8, 2006. If you are unable to provide a response by that date, our review may be delayed.

Please reference Docket No. 71-9315 and TAC No. L24006 in future correspondence related to this request. The staff is available to meet to discuss your proposed responses. If you have any questions regarding this matter, I may be contacted at (301) 415-8500.

Sincerely,

/RA/

Kimberly J. Hardin, Project Manager
Licensing Section
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards

Docket No. 71-9315
TAC No. L24006

Enclosure: Request for Additional Information

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Enclosure: Request for Additional Information
 cc: R. Boyle, Department of Transportation

Distribution: BWhite

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OFC	SFPO	C	SFPO	C	SFPO		SFPO		SFPO	
NAME	KHardin		MDeBose		REinziger		GBjorkman		RNelson	
DATE	9/14/06		09/14/06		09/18/06		09/20/06		09/20/06	

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Request for Additional Information
U.S. Department of Energy (DOE)
Docket No. 71-9315
Certificate of Compliance No. 9315
Model No. ES-3100 Package

By application dated August 24, 2006, as supplemented August 21, 2006, DOE (the applicant) requested an amendment to Certificate of Compliance No. 9315 for the Model No. ES-3100 Package. This request for additional information (RAI) identifies information needed by the U.S. Nuclear Regulatory Commission staff in connection with its review of the application. The requested information is listed by chapter number and title in the applicant's safety analysis report. NUREG-1617, "Standard Review Plan for Transportation Packages for Spent Nuclear Fuel," was used by the staff in its review of the application.

Each individual RAI describes information needed by the staff for it to complete its review of the application and to determine whether the applicant has demonstrated compliance with regulatory requirements.

Chapter 3 Thermal

- 3-1 Justify that increasing the water content of the Kaolite slurry by 10% does not result in a particle size gradation in the slurry and a density gradient in the final product.

The kaolite is a thermal insulator. Thermal heat transfer calculations are based on the kaolite having a uniform thermal conductivity. The thermal conductivity will vary with position if the kaolite density is not uniform.

This information is necessary to ensure compliance with 10 CFR 71.31(a)(1), 71.33(a)(5), and 71.33(b)(3).