

September 19, 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 1,
FOR THE MODEL NO. ES-3100 PACKAGE

Dear Dr. Shuler:

By letter dated June 6, 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 letters dated May 8 and July 18, 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 November 3, 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. L23973 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. L23973

Enclosure: Request for Additional Information

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cc: R. Boyle, Department of Transportation

Distribution: BWhite REinziger

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NAME	KHardin		MDeBose		SHelton		LCampbell		RNelson	
DATE	9/14/06		9/14/06		9/14/06		9/18/06		9/19/06	

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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 June 6, 2006, as supplemented May 8 and July 18, 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 1 General Description

- 1-1 Clarify the statement on SAR p. 1-11: "These materials are essentially inert from the standpoint of criticality safety and chemical interaction with the ES-3100 convenience cans."

No similar statement is provided for the polyethylene bottles and the nickel-alloy can. Clarify this statement for the polyethylene bottle and the nickel-alloy can in the SAR.

This information is necessary to ensure compliance with 10 CFR 71.43(d).

Chapter 3 Thermal

- 3-1 Justify the V_{bo} listed in Table 4 on SAR p. 3-151 and Table 4 on SAR p. 3-158 for CVA 6 (three 4.94 in. OD polyethylene bottles).

The discussion in the associated text provides a justification for the assumption that no off-gassing of the polyethylene bags and silicone rubber can pads will occur during normal and hypothetical accident conditions; however, the SAR text does not discuss the assumed amount of off-gassing of the polyethylene bottles. Justify this assumed amount of off-gassing in the SAR.

This information is necessary to ensure compliance with 10 CFR 71.43(d).

Chapter 4 Containment

- 4-1 Correct the typos in the 4th paragraph of SAR p. 4-6 and in the 1st paragraph of SAR p. 4-10: in both cases, "nees" should read "needs."

This correction is necessary to satisfy the requirements of 10 CFR 71.7.