



Department of Energy

Washington, DC 20585

APR 11 2007

ATTN: Document Control Desk
Director, Spent Fuel Project Office
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Document Control Desk:

This is in response to your letter dated March 21, 2007, from Kimberly J. Hardin, Project Manager, Licensing Branch, Division of Spent Fuel Storage and Transportation, Office of Nuclear Material Safety and Safeguards, concerning Amendment #3 for Model ES-3100 Shipping Container, Docket No. 71-9315, TAC Nos. L22407, L24063, and L24064. This response includes revised material specifications for TRIGA fuel (only 2 enrichments are available in this fuel), tabulated results, and an amended discussion of criticality calculations supporting the assertion that the lower enrichment TRIGA fuel is bounding. Also included are the KENO V.a input files listing the key criticality cases analyzed for ground transport of TRIGA fuel under normal and hypothetical accident conditions, as well as, the bounding air transport models.

This submittal includes two attachments. The first is page changes to Revision 1 of the ES-3100 SAR (document Y/LF-717, R1). A guide to insertion of these change pages in the SAR is included. Second is a mark-up of the Certificate of Compliance, Revision 2, with changes directly applicable to TRIGA fuel contents and air transport.

The original of this letter, without attachments is being sent to the Document Control Desk. Ten copies of this letter with attachments are being delivered to Kimberly J. Hardin, Project Manager, Licensing Branch, Division of Spent Fuel Storage and Transportation, Office of Nuclear Material Safety and Safeguards shortly after this letter is sent.

If you have any questions, please contact me at 301-903-5513.

Sincerely,

James Shuler
Manager, Packaging Certification Program
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cc:

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