



Department of Energy
Washington, DC 20585

August 18, 2011

Attn: Document Control Desk
Jennie Rankin,
Chief Licensing Branch
Division of Spent Fuel Storage and Transportation,
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

This is in response to your August 4, 2011 letter requesting supplemental information to the Department of Energy (DOE) request of June 23, 2011 for revision of the Nuclear Regulatory Commission (NRC) Certificate of Compliance (CoC) USA/9330/AF-96 for the Advanced Test Reactor Fresh Fuel Shipping Container. The following items are being provided: Revision 7 change pages to the Safety Analysis Report (SAR); the response to observation on the thermal evaluation; and CDs containing the electronic copy of the entire SAR document in PDF format plus separate files of the changed pages and the response to the thermal question. Copies of this letter and the attachments are being sent express mail (one copy of the documents and one copy CD to the NRC Document Control Desk and 8 copies of documents and one copy of the CD to Jennie Rankin the NRC Program Manager for this review).

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

Sincerely,

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NMS324

Attachment A

Docket No. 71-9330, Model No. ATR FFSC Package Changes Included in Revision 7 of the SAR

The following list summarizes the changes made to the ATR FFSC SAR in Revision 7.

1. In response to RSI-1, the allowable small quantity payloads are now limited to the items explicitly listed in Chapter 1. The text of Chapter 1 has been modified to provide additional information on the physical size of small quantity items. The AFIP and DDE descriptions have been modified to allow loose plates. Also, the U-235 mass limits for several of the items have been increased, although the Certificate of Compliance should state the limit as 400 g U-235.
2. In response to RSI-2, Chapter 7 has been modified to verify that the mass of polyethylene per ATR FFSC is ≤ 100 g.

| Remove Rev. 6 pages: | Add Rev. 7 pages: |
|--------------------------------------|--------------------------------------|
| Cover page | Cover page |
| Table of Contents, pages i through v | Table of Contents, pages i through v |
| Chapter 1, pages 1-9 and 1-10 | Chapter 1, pages 1-9 and 1-10 |
| Chapter 7, pages 7-2 through 7-6 | Chapter 7, pages 7-2 through 7-6 |