



Department of Energy  
Washington, DC 20585

OCT 11 2007

71-9315

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

This is in response to the request of additional information on Certificate of Compliance No. 9315, for the Model ES-3100 Package, Docket No. 71-9315, USA/9315/B(U)F-96. In a letter dated January 31, 2007 the U. S. Department of Energy (DOE) submitted an application for revision to the ES-3100 shipping container Certificate of Compliance (CoC). This request was to be Revision 3 of the CoC. In a supplemental request letter dated February 22, 2007, the DOE divided the request into 3 parts; Revisions 3, 4 and 5. Since that time, other urgent requests were submitted and in combination with the original request, the CoC was revised four times (Revisions 3, 4, 5, and 6). However, parts of the original request were never completed. These remaining items constitute Revision 7.

By a letter dated October 4, 2007, the Nuclear Regulatory Commission (NRC) requested a concise, updated resubmittal of the material that now constitutes Revision 7. The specific items that are part of the Revision 7 request are as follows:

- Revised criticality safety calculations and fissile loadings for all the authorized contents of the ES-3100,
- Revised Criticality Safety Index (CSI) for the ES-3100,
- Revised quantity of off-gassing material that can be transported as packing material within the ES-3100 containment vessel, including a Teflon bottle as a convenience container for the uranyl nitrate crystal,
- Revised concentration of carbon in uranium oxide shipped in the ES-3100,
- Revised concentration of the neptunium-237 in uranium shipped in the ES-3100,
- Specification of uranium alloyed with aluminum and molybdenum as contents of the ES-3100,
- Revision of the manufacturing specification for the neutron absorber material (277-4).



NMSSO/

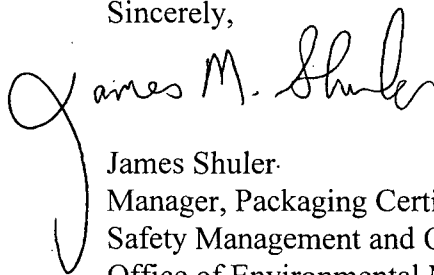
As a concise, updated version of the remaining items in the original request, DOE is submitting a complete copy of the Safety Analysis Report (SAR) for the ES-3100. This copy of the SAR only highlights the items that remain to be reviewed.

The DOE is requesting that the review of these remaining items be done as expeditiously as possible. The Naval Reactor program wishes to begin shipments of uranium metal in December, 2007, and in order to meet programmatic needs, the Navy must load to the revised fissile loadings (as supported by the first item in the above list). In the same time frame, the Navy requires the use of the Teflon bottle as a convenience container (as supported by the third item in the above list).

The original of this letter, with attachments for the Document Control Desk and 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.

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

Sincerely,

A handwritten signature in cursive script that reads "James M. Shuler". The signature is written in black ink and is positioned to the right of the word "Sincerely,".

James Shuler  
Manager, Packaging Certification Program  
Safety Management and Operations  
Office of Environmental Management

Enclosure

cc:

Kimberly J. Hardin, NRC  
Joe Bozik, NNSA NA-261  
Dana Willaford, DOE ORO  
Jeff Arbital, BWXT Y-12  
Steve Sanders, BWXT Y-12