



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 8, 2014

Dr. James M. Shuler
U.S. Department of Energy
DOE Packaging Certification Program
c/o L. F. Gelder
Savannah River Research Campus
227 Gateway Drive, Room 310
Aiken, SC 29803

SUBJECT: REVISION NO. 12 OF CERTIFICATE OF COMPLIANCE NO. 9315 FOR THE
MODEL NO. ES-3100 PACKAGE

Dear Dr. Shuler:

Enclosed is Certificate of Compliance No. 9315, Revision No. 12, for the Model No. ES-3100. Changes made to the enclosed certificate are indicated by vertical lines in the margin. The staff's safety evaluation report is also enclosed.

Those on the attached list have been registered as users of the package under the general license provisions of 10 CFR 71.17 or 49 CFR 173.471. The approval constitutes authority to use the package for shipment of radioactive material and for the package to be shipped in accordance with the provisions of 49 CFR 173.471.

If you have any questions regarding this certificate, please contact Huda Akhavannik of my staff at (301) 287-9241.

Sincerely,

/RA/

Michele Sampson, Chief
Spent Fuel Licensing Branch
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

Docket No. 71-9315
TAC No. L24967

Enclosures: 1. Certificate of Compliance
No. 9315, Rev. No. 12
2. Safety Evaluation Report
3. Registered Users

cc w/encls 1 & 2: R. Boyle, Department of Transportation

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Filename: G:/SFST/ PART71CASEWORK /9315 R12 LTR SER.doc
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E=With attachment/enclosure N=No copy C=Without attachment/enclosure
ADAMS Package No.:ML14343A263 Memo No.: ML14343A285 CoC: ML14343A381
Registered Users: ML14343A418

OFC	SFST	E	SFST	E	SFST	N
NAME	HAkhavannik		MDeBose		MSampson	
DATE	12/4/14		12/05/14		12/8/2014	

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SAFETY EVALUATION REPORT

Model No. ES-3100 Package
Certificate of Compliance No. 9315
Revision No. 12

SUMMARY

By letter dated October 15, 2014, the Department of Energy (DOE or the applicant) requested an administrative clarification and the ability to use either one or two tamper indicating devices for Certificate of Compliance (CoC) No. 9315 for the Model No. ES-3100 package. The CoC has been amended. The staff agrees that the change does not affect the ability of the package to meet the requirements of 10 CFR Part 71.

EVALUATION

In their letter dated October 15, 2014, the DOE requested clarification regarding the amount of Teflon to be used in their package and the ability to use either one or two tamper indicating devices. The DOE provided the NRC with language that specified the amount of Teflon to be used under different circumstances. The staff reviewed this language and found it to add clarity to the CoC. Additionally, the DOE requested language to clarify that although there are two lugs that could potentially be used for two tamper indicating devices, users may use only a single tamper indicating device that attaches through both lugs. The use of one tamper indicating device is in compliance with 10 CFR 71.43(b) therefore staff finds the request to be acceptable.

CONDITIONS

The following change is included in Revision No. 12 to Certificate of Compliance No. 9315:

Condition No. 3(b) was modified to reflect the addition of this letter to the references section as a supplement.

Condition No. 5(b) of the certificate was modified as follows: "With the use of Teflon bottles as convenience containers, an additional 990 g of off-gassing material is authorized in the containment vessel. The additional 990 g must be Teflon (e.g., three Teflon bottles weighing 330 g each). With Teflon bottles, the maximum mass of off-gassing materials is 1490 g: 990 g Teflon and 500 g of any type of hydrogenous material, except in the case of shipping uranium in the form of broken metal, in which case the hydrogenous material must have a hydrogen atom density less than or equal to that of water."

Condition No. 13(c) was added which states, "Either one or two Tamper Indicating Devices (TIDs) may be used for compliance with 10 CFR 71.43(b), as long as the TID(s) attach through both TID lugs."

The references section has been updated to include this renewal request.

CONCLUSION

Based on the statements and representations in the application, the staff concludes that the package will continue to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 9315, Revision No. 12,
On December 8, 2014