

June 18, 2012

Mr. Phil Noss
Licensing Manager
AREVA Federal Services LLC
505 South 336th Street, Suite 400
Federal Way, WA 98003

SUBJECT: REVISION NO. 7 OF CERTIFICATE OF COMPLIANCE NO. 9305 FOR THE
MODEL NO. TRUPACT-III PACKAGE (TAC NO. L24653)

Dear Mr. Noss:

As requested by your application dated June 6, 2012, enclosed is Certificate of Compliance No. 9305, Revision No. 7, for the Model No. TRUPACT-III package. Changes made to the enclosed certificate are indicated by vertical lines in the margin. The staff's Safety Evaluation Report is also enclosed.

This 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.

Registered users of the package under the general license provisions of 10 CFR 71.17 or 49 CFR 173.471 have been provided a copy of this certificate.

If you have any questions regarding this certificate, you may contact me or Jennie Rankin of my staff at 301-492-3268.

Sincerely,

/RA/

Michael D. Waters, Chief
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No. 71-9305
TAC No. L24653

Enclosures: 1. Certificate of Compliance
No. 9305, Rev. No. 7
2. Safety Evaluation Report

cc w/encls: R. Boyle, Department of Transportation
J. Shuler, Department of Energy
Registered Users

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DISTRIBUTION: CLOSING TAC NO. L24653

B. Benney, B. Poole, D. Weaver, M. Waters, SFST r/f

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ADAMS P8 Package No. ML12170B061 ADAMS P8 Letter No.: ML12171A034

OFC	SFST	SFST	SFST	SFST	SFST
NAME	JRankin	JPiotter	MDeBose	DPstrak	MWaters
DATE	6-12-12	6/13/12	6/14/12	6/13/12	6/18/12

C = COVER

E = COVER & ENCLOSURE

N = NO COPY

OFFICIAL RECORD COPY

SAFETY EVALUATION REPORT
Docket No. 71-9305
Model No. TRUPACT-III
Certificate of Compliance No. 9305
Revision No. 7

SUMMARY

By application dated June 6, 2012, AREVA Federal Services LLC (AFS) requested a revision to Certificate of Compliance No. 9305, for the Model No. TRUPACT-III package. This revision requested changes to the engineering drawings to allow for the optional use of 15-mm thick or 16-mm thick plate in boxes which enclose the calcium silicate insulation boards in the overpack cover and front cheeks, as well as the outer and inner edges of the closure lid. The remaining sections (e.g., thermal, materials, shielding, and criticality) were not affected by this revision. Based on the statements and representations in the application, the staff determined that these changes do not affect the ability of the package to meet the requirements of 10 CFR Part 71.

EVALUATION

AFS requested approval for the optional use of 15-mm thick plate material in areas of the Model No. TRUPACT-III where 16-mm thick plate was specified.

The applicant provided calculations that determined minimum material standards required for the 15-mm thick material such that the equivalent margins of safety would be the same or greater than if the 16-mm thick material was used. These calculations included consideration of minimum material thickness, tension, shear, and bending moment. The results showed that bending stress was the governing loading condition and that the ultimate tensile strength of the 15-mm thick material must be at least 14% greater than the ultimate tensile strength of the 16-mm thick material using ASTM minimum material properties. Based on these calculations, the applicant specified a minimum ultimate tensile strength of 744 MPa. This is 20% larger than the ASTM minimum tensile strength and greater than the calculated value of 14%.

Staff reviewed these calculations and assumptions and finds that there is reasonable assurance of safety under normal conditions of transport and hypothetical accident conditions when using 15-mm thick material with an ultimate tensile strength of 744 MPa, in areas where 16-mm thick material with the ASTM minimum ultimate tensile strength was previously specified.

CONDITIONS

The following changes have been made to the certificate of compliance:

Condition No. 5(a)(2), "Description," has been updated to reference 15-mm or 16-mm thick plate in the description of the edges of the overpack cover. In addition, the description of the overpack cover was updated to reflect the optional use of 16-mm thick stainless steel plate instead of 15-mm thick stainless steel plate. This had previously been approved in Revision No. 5 of the CoC and was modified for consistency.

Condition No. 5(a)(3), "Drawings," has been updated to reference the updated drawings.

The References section has been updated to include this revision request.

CONCLUSION

The certificate of compliance has been revised to reference the revised drawings. Based on the statements and representations contained in the application, the staff concludes that these changes do not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 9305, Revision No. 7,
on June 18, 2012.