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January 26, 2018

Mr. Ahmad M. Al-Daouk, Director  
Office of Packaging and Transportation  
U.S. Department of Energy  
National Nuclear Security Administration  
P.O. Box 5400  
Albuquerque, NM 87185

SUBJECT: REVISION NO. 2 OF CERTIFICATE OF COMPLIANCE NO. 9355 FOR THE  
MODEL NO. 435-B TRANSPORTATION PACKAGE

Dear Mr. Al-Daouk:

The U.S. Department of Energy, National Nuclear Security Administration (NNSA or the applicant), requested a revision to the Model No. 435-B package certificate of compliance by application dated April 27, 2017 (Agencywide Document Access and Management System (ADAMS) Accession No. ML17138A026), as supplemented on November 9, 2017 (ADAMS Accession No. ML17335A008).

In summary, the applicant proposed the following revisions to the design of the Model No. 435-B package:

- 1) use bolts in lieu of adhesive to attach neoprene to the lodgment,
- 2) change the standards for the inner container (IC) bolts and washers;
- 3) use of lock washers to secure bolts;
- 4) remove the use of thin (1/8-inch thick) neoprene;
- 5) add breather vents to the IC lid;
- 6) add a new case to the thermal analysis to evaluate the thermal effect of using metallic dunnage with a shielded device in the IC;
- 7) add Section 3.4.3.5 to the thermal analysis to document the evaluation of the thermal decomposition response, under hypothetical accident conditions, of non-metallic materials that may be transported within containment;
- 8) revise operating procedures to allow the slings used to lift the shielded device during loading to be left in the IC for use in unloading; and
- 9) modifications to drawings to reflect changes identified during fabrication of the packaging.

Enclosed is Certificate of Compliance No. 9355, Revision No. 2, for the Model No. 435-B transportation package. The staff's safety evaluation report is also enclosed.

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.

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If you have any questions regarding this certificate, please contact me or William Allen of my staff at (301) 415-6877.

Sincerely,

**/RA John McKirgan Acting for/**

Meraj Rahimi, Acting Chief  
Spent Fuel Licensing Branch  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-9355  
EPID No. L-2017-LLA-0053

Enclosures:

1. Certificate of Compliance No. 9355,  
Revision No. 2
2. Safety Evaluation Report
3. Registered Users

cc w/encls. 1. and 2.: R. Boyle, U.S. DOT  
J. Shuler, U.S. DOE  
c/o L. F. Gelder

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**ADAMS Package Accession No.: ML18026A874**

**LTR: ML18026A876 CoC: 18026A875 SER: ML18026A878**

**This closes EPID No. L-2017-LLA-0053.**

<b>OFC</b>	DSFM	DSFM	DSFM	DSFM	DSFM
<b>NAME</b>	W. Allen	S. Figueroa via e-mail	A. Rigato via e-mail	E. Love via e-mail	D. Tarantino via e-mail
<b>DATE</b>	12/28/17	1/4/18	1/2/18	1/3/18	1/4/18
<b>OFC</b>	DSFM	DSFM	DSFM	DSFM	DSFM
<b>NAME</b>	J. Chang via e-mail	D. Tang for Y. Diaz Sanabria via e-mail	M. Davis for P. Silva via e-mail	H. Gonzalez via e-mail	JMckirgan for M. Rahimi
<b>DATE</b>	1/3/18	1/24/18	1/23/18	1/22/18	1/26/18

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