

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



December 22, 2015

Mr. Wren Fowler  
Director, Licensing  
NAC International  
3930 East Jones Bridge Road, Suite 200  
Norcross, GA 30092

SUBJECT: REVISION 66 OF CERTIFICATE OF COMPLIANCE NO. 9225 FOR THE  
MODEL NO. NAC-LWT PACKAGE (TAC NO. L24998)

Dear Mr. Fowler:

As requested by your application dated August 18, 2015, as supplemented on October 19, 2015, enclosed is Certificate of Compliance No. 9225, Revision No. 66, for the Model No. NAC-LWT transportation package. Changes made to the enclosed certificate are indicated by vertical lines in the margin. 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 Title 49 of the *Code of Federal Regulations* (49 CFR) 173.471. 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.

If you have any questions regarding this certificate, please contact me or Bernard White of my staff at (301) 415-6577.

Sincerely,

**/RA/**

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

Docket No. 71-9225  
TAC No. L25050

- Enclosures: 1. Certificate of Compliance  
No. 9225, Rev. No. 66  
2. Safety Evaluation Report  
3. Registered Users

Upon Removal of  
Enclosure 3, this  
document is uncontrolled

cc w/encls. 1& 2: R. Boyle, Department of Transportation  
J. Shuler, U.S. Department of Energy c/o L. F. Gelder  
Registered Users

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DISTRIBUTION: (Closes TAC No L25050)  
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**ADAMS Package No.: ML15357A019 LTR:ML15357A020 CoC: ML15357A031**  
**SER: ML15357A020 Registered Users: ML15357A066**  
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<b>OFC:</b>	DSFM	DSFM	DSFM
<b>NAME:</b>	BWhite	DWalker via email	SRuffin
<b>DATE:</b>	12 /16/15	12 / 17 /15	12 / 22 /15



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**SAFETY EVALUATION REPORT**

**Docket No. 71-9225**  
**Model No. NAC-LWT Package**  
**Certificate of Compliance No. 9225**  
**Revision No. 66**

**EVALUATION**

By application dated August 18, 2015, as supplemented on October 19, 2015, NAC International, Inc., (NAC or the applicant) provided a consolidated application, which corresponded to Revision 65 of the certificate of compliance (CoC) for the Model No. NAC-LWT transportation package. NAC submitted the consolidated application to incorporate a revision to the highly enriched uranyl nitrate liquid (HEUNL) and the SLOWPOKE core into its consolidated application. While NAC did not request any changes to the package design or authorized contents in the consolidated safety analysis report (SAR), NRC made several editorial corrections on items that were inadvertently revised.

In the consolidated SAR, NAC incorporated all supplements previously approved by U.S. Nuclear Regulatory Commission (NRC). NAC made several changes to the SAR, to clarify some HEUNL material compositions. NAC completed these changes in accordance with the NRC guidance in Interim Staff Guidance (ISG) No. 20. None of these changes affect the terms or conditions of the CoC. Staff reviewed the consolidated SAR and associated changes and determined that the documentation was complete. The staff also reviewed the operating and maintenance procedures for the package and found them to be adequate.

**CONDITIONS**

The following changes have been made to the certificate:

For Condition 5.(b)(1)(vi)(b) the maximum initial  $^{235}\text{U}$  enrichment for low enriched TRIGA fuel (middle column) was changed back to 20 weight percent from 0 weight percent.

Condition No. 20 was revised to authorize continued use of Revision No. 64 of the certificate until December 31, 2017.

Condition Nos. 21 and 22 were renumbered to be condition No. 22 and 23, respectively.

Condition No. 21 was added to authorize continued use of Revision No. 65 of the certificate until December 31, 2016.

The references section has been updated to include the consolidated application and its supplement.

Based on the statements and representations in the application, as supplemented, and the conditions listed in the CoC, the staff concludes that the package meets the requirements of 10 CFR Part 71.

## **CONCLUSION**

Based on the statements and representations in the application, as supplemented, and the conditions listed above, the staff concludes that the Model No. NAC-LWT package design has been adequately described and evaluated, and that these changes do not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with CoC No. 9225, Revision No. 66, on  
12-22-2015.