

July 9, 2008

Mr. Anthony Patko
Director, Licensing
Engineering
NAC International
3930 East Jones Bridge Road, Suite 200
Norcross, GA 30092

SUBJECT: REVISION 48 OF CERTIFICATE OF COMPLIANCE NO. 9225 FOR THE
MODEL NO. NAC-LWT PACKAGE

Dear Mr. Patko:

By letter dated July 1, 2008, NAC International (NAC) submitted a revised application in accordance with 10 CFR Part 71 for an amendment to Certificate of Compliance No. 9225 for the Model No. NAC-LWT package to update License Drawings. 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. 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 may request, by letter, to remove their names from the Registered Users List.

If you have any questions regarding this certificate, please contact me at (301) 492-3294 or Kim Hardin of my staff at (301) 492-3339.

Sincerely,

/RA/

Eric J. Benner, Chief
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No. 71-9225
TAC No. L24228

Enclosures: 1. Certificate of Compliance
No. 9225, Rev. No. 48
2. Safety Evaluation Report
3. Registered Users List

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

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Director, Licensing
Engineering
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SAFETY EVALUATION REPORT

Docket No. 71-9225
Model No. NAC-LWT Package
Certificate of Compliance No. 9225
Revision No. 48

SUMMARY

By application dated July 1, 2008, NAC International (NAC or the applicant) requested an amendment to Certificate of Compliance (CoC) No. 9225 for the Model No. NAC-LWT packaging. NAC requested authorization to use TRIGA baskets manufactured in accordance with the updated license drawings in the NAC-LWT cask.

This revision is necessary to support an ongoing fuel shipment, the established shipment schedule under the DOE NNSA Foreign Research Reactor (FRR) program. CoC No. 9225 has been amended based on the statements and representations in the application, and staff agrees that the changes do not affect the ability of the package to meet the requirements of Title 10 of the Code of Federal Regulations (10 CFR) Part 71.

EVALUATION

NAC requested authorization to use TRIGA baskets in the NAC-LWT cask manufactured in accordance with the updated license drawings 315-40-070, Rev. 4; 315-40-071, Rev. 4; and 315-40-072, Rev. 4. These drawings were updated to Rev. 4 based on inconsistencies in Rev. 3 that presented a challenge to the fabricator. The drawing requirements were clarified for the manufacturer and quality assurance personnel.

Three updated license drawings were included in this submittal:

Drawing LWT 315-40-070, Rev. 4	Weldment, 7 Cell Basket, TRIGA Fuel Base Module
Drawing LWT 315-40-071, Rev. 4	Weldment, 7 Cell Basket, TRIGA Fuel Intermediate Module
Drawing LWT 315-40-072, Rev. 4	Weldment, 7 Cell Basket, TRIGA Fuel Top Module

All three license drawings were modified to correct the following information:

1. Item 9 (Guide) is a non-structural component of the TRIGA basket with the sole purpose of providing alignment guidance between the drain line and the basket as the basket is placed into the cask. Two of the four sides of Item 9 are suitable for welding. For this reason, the Delta Note 2 of the drawing was changed from "3 sides both ends Item 9" to "radial inside surface, seal weld plate outer edge, both ends Item 9."

2. Delta Note 4 was clarified by adding detail that Item 2 may be fabricated from multiple pieces. The requirement did not change, but detail was added to clarify this requirement for the fabricator. Delta Note 4 was added to Zone E-7.
3. Delta Note 9 was changed to state that "PT following load test. Examine per ASME Section V, Article 6, with acceptance per Section III, Article NG-5350." The weld quality factor given on page 2.6.12-34 of the SAR that affects Zone B-8 of the drawing has been increased to 2.86, which permits visual inspection. Delta Note 9 was, therefore, deleted from this Zone in the drawing. Delta Note 9 remains in effect for Zone E-3.

This revision has no impact on the structural, thermal, containment, criticality, or shielding performance of the NAC-LWT packaging.

The applicant has shown and the staff agrees that the use of TRIGA baskets manufactured in accordance with the updated license drawings in CoC No. 9225 does not affect the ability of the NAC-LWT package to meet the requirements of 10 CFR Part 71.

CONDITIONS

In addition to the packaging drawings (Condition No. 5(a)(3)(ii)) listed in the Evaluation section of this SER, the CoC has been revised as follows:

Condition No. 19:

Allows the use of Revision 47 of this certificate for one year.

CONCLUSION

Based on the statements and representations in the application, 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 Certificate of Compliance No. 9225, Revision No. 48,
on July 9, 2008.