

August 27, 2008

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

SUBJECT: AUTHORIZATION TO USE THE 42 MTR BASKET MODULES
MANUFACTURED IN ACCORDANCE WITH THE UPDATED MTR BASKET
DRAWINGS IN THE MODEL NO. NAC-LWT (TAC NO. L24242)

Dear Mr. Patko:

As requested by your application dated August 13, 2008, pursuant to Title 10 of the Code of Federal Regulations Part 71, Certificate of Compliance (CoC) No. 9225, for Model No. NAC-LWT package is amended as follows:

The 42 MTR fuel base, intermediate, and top basket modules may be used for shipment in the NAC-LWT cask using the updated specifications identified in Delta Note 4 for Item No. 9 (Guide); Delta Note 2 for Item No. 2 (Support Plate); Delta Note 6 for testing; the Title Block group names; and any associated Note deletions and additions on NAC license drawings 315-40-045, Rev. 5, 315-40-046, Rev. 5, and 315-40-047, Rev. 5.

The following additional conditions apply:

- All other conditions of CoC No. 9225 shall remain the same.
- This authorization shall expire on August 31, 2009.

If you have any questions regarding this authorization, please contact me or Kim Hardin of my staff at (301) 492-3302.

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
Enclosure: Safety Evaluation Report
cc: R. Boyle, Department of Transportation
J. Shuler, Department of Energy

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SAFETY EVALUATION REPORT

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

SUMMARY

By application dated August 13, 2008, NAC International (NAC or the applicant) requested an amendment to Certificate of Compliance (CoC) No. 9225 for the Model No. NAC-LWT. NAC requested a one year authorization to use the 42 MTR basket modules manufactured in accordance with updated NAC International drawings 315-40-045, Rev. 5, 315-40-046, Rev. 5, and 315-40-047, Rev. 5.

These shipments are necessary to support ongoing cask loading operations and the established shipment schedule under the DOE NNSA Foreign Research Reactor (FRR) program until the next amendment request can be processed. CoC No. 9225 has been amended by letter 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 a one year authorization to use the 42 MTR basket modules manufactured in accordance with updated NAC International drawings 315-40-045, Rev. 5, 315-40-046, Rev. 5, and 315-40-047, Rev. 5 in the NAC-LWT cask.

In NAC license drawings 315-40-045, Rev. 5, 315-40-046, Rev. 5, and 315-40-047, Rev. 5, Items 9 (Guide), 8 (Guide), and 7 (Guide), respectively, are non-structural components of the MTR baskets. Their sole purpose are to provide alignment guidance between the drain line and the basket as the basket is placed into the cask. Two of the four sides of these guides are suitable for welding. For this reason, the Delta Note 4 on each of these drawings was changed from "3 sides both ends..." to "radial inside surface, seal weld plate outer edge, both ends..."

Delta Note 2 was clarified for all three drawings 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 2 was added to Zone F-5 in all three drawings.

Delta Note 9 was changed in all three drawings 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 Zone B-8 in the drawings.

The Title Block group names were revised in Sheet 1 of all three drawings for clarification.

For Drawing 315-40-047, Rev. 5, the Delta Note 2 symbol was deleted to be correct from area B-6.

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

The authorization is limited to the following condition:

The 42 MTR fuel base, intermediate, and top basket modules may be used for shipment in the NAC-LWT cask using the updated specifications identified in Delta Note 4 for Item No. 9 (Guide), Delta Note 2 for Item No. 2 (Support Plate), Delta Note 6 for testing, the Title Block group names, and any associated Note deletions and additions on NAC license drawings 315-40-045, Rev. 5, 315-40-046, Rev. 5, and 315-40-047, Rev. 5.

The following additional conditions apply:

- All other conditions of CoC No. 9225 shall remain the same.
- This authorization shall expire on August 31, 2009.

CONCLUSION

Certificate of Compliance No. 9225 has been amended by letter for a one year authorization to use the 42 MTR basket modules manufactured in accordance with updated NAC International drawings 315-40-045, Rev. 5, 315-40-046, Rev. 5, and 315-40-047, Rev. 5. This authorization expires August 31, 2009. Based on the statements and representations in the application, and with the conditions listed above, the staff agrees that this change does not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued on August 27, 2008.