

June 12, 2009

Mr. Richard W. Boyle
Radioactive Materials Branch
U.S. Department of Transportation
1200 New Jersey Ave., S.E.
Washington, DC 20590

SUBJECT: REVIEW OF THE TN-BGC1 PACKAGE, AS AUTHORIZED IN FRENCH
CERTIFICATE OF APPROVAL NO. F/313/B(U)F-96, REV. IAK, FOR IMPORT
EXPORT USE

Dear Mr. Boyle:

This is in response to your letter dated February 20, 2009, requesting our assistance in evaluating the Model No. TN-BGC1 package, authorized by French Certificate of Approval No. F/313/B(U)F-96, Rev. Iak, for import and export use. Specifically, you requested that we review the package design for transport, including air transport, of Content No. 11 (solid non-irradiated uranium-bearing materials contained within a TN 90 secondary conditioning container) and Content No. 26 (non-irradiated TRIGA fuel elements). You provided English translations of French Certificate of Compliance and the Safety Analysis Report (SAR), Rev. 160 EMBAL PFM DET 08000157 A.

Based upon our review, the statements and representations in the documents described above, and for the reasons stated in the enclosed SER, we agree that the TN-BGC1 package, as described in French Certificate of Approval No. F/313/B(U)F-96, Rev. Iak, meets the requirements of paragraph 680 of International Atomic Energy Agency "Regulations for the Safe Transport of Radioactive Material," TS-R-1, 1996 Edition (Revised), for Content No. 11 and Content No. 26 with the following additional conditions:

1. For Content No. 11, the maximum fissile mass is not to exceed 5 kilograms U-235 per package. The mass of water must not exceed 2000 grams per package in the form of moisture content of wood. No hydrogenous packaging materials are permitted within the package containment vessel.
2. For Content No. 26, the maximum number of TRIGA fuel elements per package is not to exceed 5 standard elements or 23 thin elements, where standard and thin elements are defined in F/313/B(U)F-96 26ak, Appendix 26, Content No. 26. The total mass of cardboard must not exceed 1200 grams, the moisture content of the wood components must not exceed 10 percent, and the total water content (including moisture content of the wood and water equivalent in the form of cardboard) must not exceed 2900 grams per package. No other hydrogenous packaging materials are permitted within the package containment vessel.
3. Uranium metallic powder and uranium tetrafluoride (UF₄) are prohibited under Content No. 11.

R. Boyle

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If you have any questions regarding this matter, please contact me or Meraj Rahimi of my staff at (301) 492-3338.

Sincerely,

/RA/

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

Docket No. 71-3034
TAC No. L24315

Enclosure: Safety Evaluation Report

R. Boyle

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If you have any questions regarding this matter, please contact me or Meraj Rahimi of my staff at (301) 492-3326.

Sincerely,

/RA/

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

Docket No. 71-3034
TAC No. L24315

Enclosure: Safety Evaluation Report

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