



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

June 30, 2015

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

SUBJECT: REVALIDATION OF MODEL NO. TN-BGC1 FRENCH COMPETENT  
AUTHORITY CERTIFICATE F/313/B(U)F-96 REV. JBB (TAC NO. L25004)

Dear Mr. Boyle:

This is in response to your letter dated March 25, 2015, as supplemented March 24, May 18, May 20 and May 21, 2015, requesting our assistance in evaluating the Model No. TN-BGC1 package, authorized by the French Certificate of Approval No. F/313/B(U)F-96, Revision Jbb. The review was limited to the addition of non-pyrophoric uranium powder as an approved content. Based on our review, the statements and representations contained in the application, and for the reasons stated in the enclosed safety evaluation report, we recommend revalidation of French Competent Authority Certificate No. F/313/B(U)F-96, Rev. Jbb, for use in the United States, with the following conditions:

- (1) For Content No. 11, the maximum fissile mass is not to exceed 5 kilograms U-235 per package. The mass of water and the equivalent mass of other hydrogenous materials must not exceed 2000 grams per package. The guaranteed containment diameter must not exceed 120 mm;
- (2) Uranium metallic powder is prohibited under Content No. 11 if it can ignite within five (5) minutes after coming in contact with air when tested according to section 33.3.1.4 Test N.2 of the UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria; and
- (3) 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.

R.W. Boyle

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If you have any questions regarding this matter, you may contact me at (301) 415-7295 or you may contact Chris Allen at (301) 415-6877.

Sincerely,

**/RA/ A. H. Hsia for**

Mark Lombard, Director  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-3034  
TAC No. L25004

Enclosure: Safety Evaluation Report

R.W. Boyle

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