

**CERTIFICATE OF COMPLIANCE
FOR RADIOACTIVE MATERIAL PACKAGES**

¹ a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE	PAGES
5086	13	71-5086	USA/5086/B(U)F	1 OF	2

2. PREAMBLE

- a. This certificate is issued to certify that the package (packaging and contents) described in Item 5 below meets the applicable safety standards set forth in Title 10, Code of Federal Regulations, Part 71, "Packaging and Transportation of Radioactive Material."
- b. This certificate does not relieve the consignor from compliance with any requirement of the regulations of the U.S. Department of Transportation or other applicable regulatory agencies, including the government of any country through or into which the package will be transported.

3. THIS CERTIFICATE IS ISSUED ON THE BASIS OF A SAFETY ANALYSIS REPORT OF THE PACKAGE DESIGN OR APPLICATION

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| a. ISSUED TO (<i>Name and Address</i>)
Babcock & Wilcox Nuclear Operations
Group, Inc.
P.O. Box 785
Lynchburg, VA 24505-0785 | b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION
BWXT Nuclear Products Division application
dated December 23, 2003, as supplemented. |
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4. CONDITIONS

This certificate is conditional upon fulfilling the requirements of 10 CFR Part 71, as applicable, and the conditions specified below.

5.

(a) Packaging

(1) Model No.: UNC-2600

(2) Description

The inner container is an 11-gauge steel box with inside dimensions of 2-5/8" high x 7" wide x 96" long. The inner container is supported in a 22-1/2" ID by 102-1/2" long, 14-gauge steel drum by an insertable cage formed by nine 21-1/2" diameter by 3/8" thick steel plates, spaced approximately 12" apart, with a channel formed through the center of the plates by angle irons. The outer container closure is made with a 14-gauge drum lid with 12-gauge bolt locking ring with drop forged lugs, one of which is threaded, having a 5/8" diameter bolt.

(3) Drawings

The packaging is constructed in accordance with Thomas Gutman Consultant Drawing No. B-2600-2, Sheets 1 through 6, Rev. 3.

(b) Contents

(1) Type and form of material

Unirradiated, uranium-zirconium, fuel elements. The uranium may be enriched to any degree, up to 100%, in the U-235 isotope.

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(2) Maximum quantity of material per package

375 grams of U-235 per package as clad fuel element. The net weight of the contents shall not exceed 265 pounds.

(3) Contents are limited to one A₂ quantity based on the actual isotopic values for all constituent nuclides of the loaded contents.

(c) Criticality Safety Index (CSI): 100

6. In addition to the requirements of Subpart G of 10 CFR Part 71:

(a) The package must be prepared for shipment and operated in accordance with Chapter 7 of the application dated October 16, 2009, with the exception that the CSI must be in accordance with Condition No. 5(c).

(b) The package must be maintained in accordance with Chapter 8 of the application dated October 16, 2009, with the exception that welding repairs are not authorized.

7. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR 71.17.

8. The fabrication of new packages is not authorized after April 1, 1999.

9. Expiration date: November 30, 2014.

REFERENCES

BWXT Nuclear Products Division application dated December 23, 2003.
Supplements dated: May 30, 2008; January 29 and October 16, 2009.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Jennifer Davis, Acting Chief
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Date: November 24, 2009.