

**CERTIFICATE OF COMPLIANCE  
FOR RADIOACTIVE MATERIAL PACKAGES**

1.	a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE	PAGES
	5086	16	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

- |   |   |
|---|---|
| a. ISSUED TO ( <i>Name and Address</i> )  | b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION                    |
| BWXT Nuclear Operations Group, Inc.<br>P.O. Box 785<br>Lynchburg, VA 24505-0785 | BWXT Nuclear Operations Group, Inc. application<br>dated March 4, 2016. |

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  $A_2$  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 March 4, 2016, 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 March 4, 2016, 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: December 31, 2024.

REFERENCES

BWXT Nuclear Operations Group, Inc., application dated September 18, 2019.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Daniel Doyle, Acting Chief  
Spent Fuel Licensing Branch  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Date: 12/06/19

**SAFETY EVALUATION REPORT**  
**Docket No. 71-5086**  
**Model No. UNC 2600 Package**  
**Certificate of Compliance No. 5086**  
**Revision No. 16**

**SUMMARY**

By application dated September 18, 2019 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML19267A046), BWXT Nuclear Operations Group, Inc. requested renewal of the Certificate of Compliance No. 5086, for the Model No. UNC 2600 package. BWXT Nuclear Operations Group, Inc. did not request any changes to the package design or its authorized contents. The certificate has been renewed for a five-year term.

**EVALUATION**

The staff reviewed the documents referenced in the certificate and determined that the documentation was available and complete.

**CONDITIONS**

Condition No. 9 has been updated to reflect the new expiration date.

Condition 10 has been removed, as condition 9 was no longer needed.

The references section of the certificate was revised to include the date of the certificate renewal request.

**CONCLUSION**

The certificate has been renewed for a five-year term, which expires on December 31, 2024. Based on the statements contained in the application, and the conditions listed above, the staff concludes that the changes indicated do not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 5086, Revision No. 16.