

**CERTIFICATE OF COMPLIANCE
FOR RADIOACTIVE MATERIAL PACKAGES**

a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE	PAGES
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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 (*Name and Address*)

BWXT Nuclear Operations Group, Inc.
P.O. Box 785
Lynchburg, VA 24505-0785

b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION

BWXT Nuclear Operations Group, Inc. application
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 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 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, 2029.

REFERENCES

BWXT Nuclear Operations Group, Inc., application dated September 18, 2019; and September 9, 2024.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Chau N. Nguyen

Digitally signed by Chau N.
Nguyen
Date: 2024.12.05 08:58:36 -05'00'

John-Chau Nguyen, Acting Chief
Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

Date: December 5, 2024



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

**SAFETY EVALUATION REPORT
Docket No. 71-5086
Model No. UNC 2600 Transport Package
Certificate of Compliance No. 5086
Revision No. 17**

SUMMARY

By letter dated September 9, 2024 (Agencywide Documents Access and Management System Accession No. ML24324A046), BWXT Nuclear Operations Group, Inc. (the applicant) requested the renewal of Certificate of Compliance (CoC) No. 5086, for the Model UNC 2600 transport package. The quality assurance program for this package is under Docket No. 71-00088.

The applicant did not request any changes to the package design or its authorized contents. The certificate has been renewed for a 5-year term.

EVALUATION

The staff reviewed the applicant's requests to renew the CoC of the Model No. UNC 2600. The Model No. UNC 2600 package is used to transport unirradiated fuel elements (ML16089A030). The staff reviewed the documents referenced in the CoC and determined that the documentation was available and complete.

Based on the application, the staff finds that the information provided by the applicant is adequate and the package continues to meet the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 71.

CONDITIONS

The following conditions of the CoC were revised:

Condition No. 9 was revised to reflect the new expiration date.

The "REFERENCES" section has been updated to include the date for this renewal request.

CONCLUSION

The certificate has been renewed for a five-year term, which expires on December 31, 2029. Based on the statements contained in the application, and the changes listed above, the staff concludes that the package continues meeting the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 5086, Revision No. 17.