

**CERTIFICATE OF COMPLIANCE  
FOR RADIOACTIVE MATERIAL PACKAGES**

1. a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE	PAGES
9280	4	71-9280	USA/9280/AF-85	1	OF 3

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> )<br>Babcock & Wilcox Nuclear Operations<br>Group, Inc.<br>P.O. Box 785<br>Lynchburg, VA 24505-0785 | b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION<br>BWX Technologies, Inc., application dated<br>January 25, 2008. |
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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.: UBE-1

(2) Description

A steel drum for the transport of solid uranium and uranium-beryllium waste materials. The packaging is a 55-gallon, open-head steel drum with a minimum 18-gauge shell and bottom head, and a minimum 16-gauge closure lid. The lid is closed by a 12-gauge bolted locking ring with drop forged lugs, one of which is threaded, having a 5/8 inch bolt and nut. The closure includes a gasket. The gross weight of the package, including the maximum weight of contents, is approximately 600 pounds.

(3) Drawings

The packaging is constructed and assembled in accordance with Babcock & Wilcox Company Drawing. No. LP3023C, Rev. 4.

(b) Contents

(1) Type and form of material

Uranium and uranium-beryllium mixtures in the form of solids, and solid waste materials.

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9280	4	71-9280	USA/9280/AF-85	2 OF	3

5.(b) Contents (continued)

(2) Maximum quantity of material per package

550 pounds. The uranium may be of any enrichment, and the beryllium may be present in any concentration. The maximum fissile mass is 100 grams U-235 per package, and the maximum average fissile mass density in the package is 0.5 gram U-235 per liter. Fission and activation products may be present, provided that the total quantity is less than  $1 \times 10^{-3} A_2$  per package.

(c) Criticality Safety Index (CSI) to be shown on label for nuclear criticality control:

<u>Maximum Fissile Mass Per Package (grams U-235 per package)</u>	<u>Minimum Criticality Safety Index (CSI)</u>
2.0	0.5
5.0	1.0
6.0	1.2
10.0	2.0
20.0	4.0
25.0	5.0
50.0	10.0
100.0	20.0

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 the Operating Procedures in Section 7 of the application.
- (b) Each packaging must be acceptance tested in accordance with the Acceptance Tests in Section 8 of the application.

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

8. Transport by air of fissile material is not authorized.

9. Revision No. 3 of this certificate may be used until November 30, 2009.

10. Expiration date: May 31, 2013.

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9280	4	71-9280	USA/9280/AF-85	3	OF 3

REFERENCES

BWX Technologies, Inc., application dated January 25, 2008.

Supplement dated March 20, 2008; May 30, 2008.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

**/RA/**

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

Date: November 12, 2008

