

**CERTIFICATE OF COMPLIANCE
FOR RADIOACTIVE MATERIAL PACKAGES**

1. a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE	PAGES
9300	0	71-9300	USA/9300/B(U)-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

- a. ISSUED TO (*Name and Address*)
BNFL, Inc.
10269 US 31 North
Charlevoix, MI 49720-9436
- b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION
BNFL, Inc., application dated June 19, 2001, as supplemented.

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.: BRP RVP SAR-5339****(2) Description**

A reactor pressure vessel and internal components contained within a cylindrical steel outer packaging which is filled with low density concrete and welded closed. The reactor vessel is an open, cylindrical, 5-1/4-inch thick carbon steel vessel with a hemispherical bottom head. The inner diameter of the reactor vessel is approximately 8 feet, 10-7/8 inches, and the length of the reactor vessel is approximately 24 feet. The reactor vessel contains internal components, including the top guide plate, grid bar end pieces, steam baffle, emergency cooling sparger, seal housing, thermal shield, thermal shield retainer, seal weights, core support plate, inlet diffuser and inlet baffle. The internal components are constructed of stainless steel, and the internal surfaces of the reactor vessel are clad with stainless steel. The reactor vessel is partially surrounded with 3-inch thick stainless steel mirror insulation.

The outer packaging is composed of a 3-inch thick cylindrical shell welded to a 4-inch thick bottom plate, and is constructed of ASME SA-516, Grade 70, carbon steel. Supplemental steel shielding approximately 4 inches thick is welded to the inside of the cylindrical shell at the core region. The 4-inch thick top plate is attached to the reactor vessel flange by 14 studs and nuts, and is welded to the packaging outer shell. The reactor vessel cavity and the region between the reactor vessel and the outer packaging are filled with low density concrete. There are no lifting or tie-down devices that are a structural part of the package. The overall dimensions of the package are approximately 25 feet in length and 13 feet in diameter. The package weighs approximately 565,000 pounds.

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5. (a) (3) Drawings

The package is constructed and assembled in accordance with BNFL, Inc., Figure 2-1, Sheets 1 through 4, Rev. 0; Sheet 5, Rev. 1; and Sheets 6 and 7, Rev. 0; included in the application dated June 19, 2001, as supplemented December 19, 2001.

(b) Contents

(1) Type and form of material

Irradiated steel reactor pressure vessel, mirror insulation, and internal components.

(2) Maximum quantity of material per package

Greater than a Type A quantity of radioactive material contained in an irradiated reactor vessel, mirror insulation, and internal components and associated surface contamination. Fissile material may be present provided the fissile material meets the exemption standards in 10 CFR 71.53.

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

(a) The package must be prepared for shipment and transported in accordance with Chapter 7 of the application, as supplemented.

(b) The package must be acceptance tested in accordance with Chapter 8 of the application, as supplemented.

7. Transport of the package may only be initiated if (1) the ambient temperature at the Big Rock Point plant is greater than 0°F, and (2) the minimum predicted temperature along the transport route for the anticipated transport period is greater than 0°F.

8. The package authorized by this certificate must be transported on a motor vehicle and on a railroad car assigned for the sole use of the shipper.

9. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR 71.12.

10. Expiration date: March 31, 2007.

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REFERENCES

BNFL, Inc., application dated June 19, 2001.

Supplements dated: August 21 and December 19, 2001.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

E. William Brach, Director
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards

Date April 8, 2002

