

**CERTIFICATE OF COMPLIANCE
FOR RADIOACTIVE MATERIAL PACKAGES**

1.	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

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| a. ISSUED TO (<i>Name and Address</i>)
U.S. Department of Energy
Division of Naval Reactors
Washington, DC 20585 | b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION
Department of Energy application dated
April 22, 1991, 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.: Model 1 D1G Core Basket-Thermal Shield Shipping and Storage Container
- (2) Description

The Model 1 D1G Core Basket-Thermal Shield (CB-TS) Shipping and Storage Container is a right circular cylinder approximately 115 inches in diameter and 209 inches long including impact limiter assembly. Access for loading is provided by a removable closure head. The container, consisting of the cylindrical side walls and the bottom end, has a three-layer construction with a steel inner vessel approximately eight inches thick covered with approximately nine inches of reinforced concrete which is encased by a 3/8-inch thick stainless steel outer shell. The core barrel assembly is secured in place inside the container by a steel preload ring that is bolted to the inner vessel with 72 high strength bolts.

Closure of the containment vessel is provided by a steel closure head which is fastened to the inner vessel with 72 high strength bolts. A steel closure ring is welded over the bolts and provides containment. A steel inner impact limiter is welded to the top end of the closure ring. A wood outer impact limiter is bolted to the top plate of the container outer shell. The shipping container is transported with its axis horizontal and is supported by a shipping skid. The loaded container weighs up to 185 tons.

- (3) Drawings

Packagings are constructed in accordance with the drawings contained in Appendix A.1.3.3 of the application.

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5. (b) Contents

One irradiated D2W core barrel assembly (includes inner thermal shield, outer thermal shield, removal cover, tie bolts) and not more than 3.63 gallons of residual water. The core barrel and thermal shields are irradiated and the associated surfaces are contaminated with activated corrosion products.

6. (a) The package shall not be shipped unless the daily minimum temperature expected during shipment of the package as determined on the basis of weather forecasts is greater than or equal to the Lowest Service Temperature (+10°F).
- (b) The D2W core barrel shipment shall be made no earlier than 136 days after shutdown of the reactor.
7. The package shall be prepared for shipment and operated in accordance with the Operating Procedures in Chapter 7.0 of the application, and each packaging shall be tested and maintained in accordance with the Acceptance Tests and Maintenance Program in Chapter 8.0 of the application.
8. Shipments shall be completed within 1,444 days of completion of closure ring welding to prevent excessive hydrogen buildup.
9. Expiration Date: January 31, 2023.

REFERENCES

Department of Energy, Division of Naval Reactors, application dated April 22, 1991.

Supplements dated: Naval Reactors Letters G#92-03668, dated August 27, 1992; G#C95-10762, dated April 10, 1995; G#C96-03576, dated November 1, 1996; G#C02-0751, dated April 5, 2002; G#07-01492, dated April 17, 2007; G#12-02134, dated May 4, 2012; and G#17-02950, dated June 15, 2017; G#C20-04104 dated October 13, 2020; G#21-01990, dated April 26, 2021.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

John B. McKirgan, Chief
Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

Date: July 23, 2021