

U.S. NUCLEAR REGULATORY COMMISSION  
CERTIFICATE OF COMPLIANCE  
For Radioactive Materials Packages

1.(a) Certificate Number 9784	1.(b) Revision No. 2	1.(c) Package Identification No. USA/9784/B( )F	1.(d) Pages No. 1	1.(e) Total No. Pages 2
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2. PREAMBLE

- 2.(a) This certificate is issued to satisfy Sections 173.393a, 173.394, 173.395, and 173.396 of the Department of Transportation Hazardous Materials Regulations (49 CFR 170-189 and 14 CFR 103) and Sections 146-19-10a and 146-19-100 of the Department of Transportation Dangerous Cargoes Regulations (46 CFR 146-149), as amended.
- 2.(b) The packaging and contents described in item 5 below, meets the safety standards set forth in Subpart C of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Materials for Transport and Transportation of Radioactive Material Under Certain Conditions."
- 2.(c) 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 U.S. 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--

3.(a) Prepared by (Name and address): U.S. Department of Energy Division of Naval Reactors Washington, D.C. 20545	3.(b) Title and identification of report or application: Bettis Atomic Power Laboratory application dated November 2, 1973, as amended.
	3.(c) Docket No. 71-9784

4. CONDITIONS

This certificate is conditional upon the fulfilling of the requirements of Subpart D of 10 CFR 71, as applicable, and the conditions specified in item 5 below.

5. Description of Packaging and Authorized Contents, Model Number, Fissile Class, Other Conditions, and References:

(a) Packaging

(1) Model No.: LWBR New Fuel

(2) Description

The LWBR New Fuel shipping container is a right circular cylinder 51 inches in diameter and 300 inches long. The outer container consists of a 3/16 inch thick shell with eleven circumferential stiffeners distributed along its length. The outer container is made in two halves with a longitudinal closure flange capable of being sealed using an "O" ring gasket. The outer container is attached to a support structure which holds the container and strongbacks on the transport trailer at a 13% slope. Inside the outer container are four support plates for attaching either of two strongbacks. One of the strongbacks is designed to contain the LWBR movable fuel assembly and the other is designed to contain any one of the three types of blanket (stationary) fuel assemblies. The total weight of the outer container, movable fuel strongback, and fuel assembly is 16,600 lbs and the total weight of the outer container, blanket strongback, and Type III blanket assembly is 37,400 lbs (max. weight).

5. (a) Packaging (Continued)

(4) Drawings

The packaging is constructed in accordance with the drawings contained in Westinghouse Electric Corporation document WAPD-LC(CEM)-65, Rev. B, dated August 16, 1974.

(b) Contents

(1) Type and form of material

Unirradiated fuel assembly enriched in U-233.

(2) Maximum quantity of material per package.

One fuel assembly of the following type and fissile material limit.

<u>Movable Assembly</u>	<u>Blanket Assembly</u>		
	<u>Type I</u>	<u>Type II</u>	<u>Type III</u>
16.39 Kg	15.97 Kg	24.66 Kg	29.46 Kg

(c) Fissile Class

III

Maximum number of packages  
per shipment

One (1)

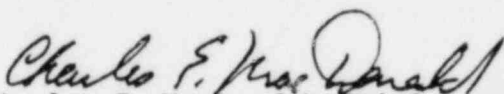
6. Expiration date: October 31, 1987.

REFERENCES

Bettis Atomic Power Laboratory application, WAPD-LC(CEM)-64, dated November 2, 1973.

Supplements dated: Bettis Atomic Power Laboratory letters WAPD-LC (CEM)-131, dated February 15, 1974 and WAPD-LD(RL)-87, dated August 16, 1974.

For The U.S. NUCLEAR REGULATORY COMMISSION

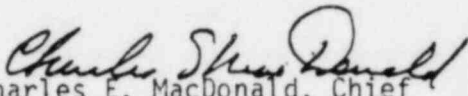
  
Charles E. MacDonald, Chief  
Transportation Certification Branch  
Division of Fuel Cycle and  
Material Safety

Date: OCT 19 1982

U.S. Nuclear Regulatory Commission  
Transportation Certification Branch  
Approval Record  
Model No. LWR New Fuel Container  
Docket No. 71-9784

By application dated July 27, 1982, U.S. Department of Energy requested renewal of Certificate of Compliance No. 9784. No changes have been authorized to the package design since approval of latest supplement dated August 16, 1974.

The staff concludes that the statements of the original application, as supplemented, satisfies the requirement for renewal of the Certificate of Compliance.

  
Charles E. MacDonald, Chief  
Transportation Certification Branch  
Division of Fuel Cycle and  
Material Safety, NRC

Date: OCT 19 1982