

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

1.(a) Certificate Number 6385	1.(b) Revision No. 2	1.(c) Package Identification No. USA/6385/AF	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 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: Safety Analysis Report for SIW Unirradiated Core shipping container dated July 7, 1969, as supplemented. 3.(c) Docket No. 71-6385
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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.: SIW Unirradiated Core
- (2) Description

The SIW Unirradiated Core shipping container is a sealed vessel pressurized to 5 to 7 psig with dry nitrogen and having an approximate length of 18 feet and outside diameter of 53 inches. The barrel of the vessel is fabricated from 2 inch thick carbon steel plate having outside diameter flanges of 60 inches. The barrel is 16 feet 1-1/4 inches long which is capped by a bottom barrel extension and a top cover. The bottom barrel extension is bolted to the barrel subassembly to cover and support the lower end of the core cartridge during shipment. A 2 inch thick steel bottom cover is bolted to the underside of the barrel extension to prevent possible puncture of the container through the inspection port in the underside of the barrel extension. The top bell cover is bolted to the barrel subassembly to seal the upper end of the container. The container is supported in a horizontal attitude within a shipping structure during shipment. The shipping structure is a fabricated steel structure of girders and steel angles and employs a rubber-type mounting for the support of the shipping container. The core cartridge is shipped with a full complement of design control rods installed. The control rods are restrained in the core by a control rod holddown plate. The gross weight of the loaded shipping container is 45,200 lbs. This weight is exclusive of the 7,800 lbs. of the shipping structure.

(3) Drawings

The packaging is constructed in accordance with Westinghouse Electric Corporation Drawing Nos. 902J139, Rev. D; 937F322, Rev. 4 and 937F346, Rev. 6.

(b) Contents

(1) Type and form of material

Unirradiated fuel assemblies of the following type,

- (i) S1W fuel core with design control rods installed and restrained in the core by a control rod holddown plate
- (ii) S2W fuel core with design control rods installed and restrained in the core by a control rod holddown plate.

(2) Maximum quantity of material per package

One fuel assembly as described in 5(b)(1)(i) or 5(b)(1)(ii).

(c) Fissile Class

III

Maximum number of packages per shipment:

One

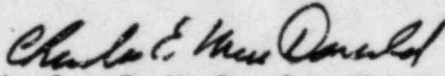
6. Expiration date: April 30, 1988

REFERENCES

Safety Analysis Report for S1W Unirradiated Core shipping container, WAPD-OP(R)S-3403 dated July 7, 1969.

Supplements: Bettis Atomic Power Laboratory letters WAPD-OP(R)RD-407 dated September 4, 1970; WAPD-OP(R)RD-451 dated October 13, 1970 and WAPD-OP(R)RD-470 dated October 23, 1970.

FOR THE U. S. NUCLEAR REGULATORY COMMISSION


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

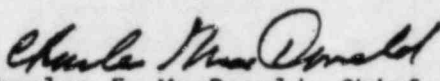
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Date: _____

U.S. Nuclear Regulatory Commission
Transportation Certification Branch
Approval Record
Model No. SLW Unirradiated Core Packaging
Docket No. 71-6385

By application dated July 27, 1982, U.S. Department of Energy requested renewal of Certificate of Compliance No. 6385. No changes have been authorized to the package design since approval of the latest supplement dated October 23, 1970.

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


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

APR 11 1983

Date: _____