

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

1.(a) Certificate Number 6049	1.(b) Revision No. 1	1.(c) Package Identification No. USA/6049/B () F	1.(d) Pages No. 1	1.(e) Total No. Pages 3
----------------------------------	-------------------------	--	----------------------	----------------------------

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 426A and 426B shipping containers dated January 31, 1969, as supplemented.
--	---

3.(c) Docket No. 71-6049

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 Nos.: 426A and 426B

(2) Description

The Model Nos. 426A and 426B containers are used to ship and store new unirradiated S5W Core R3 core cartridge assemblies, new unirradiated S3W Core R2 fuel subassemblies, and new unirradiated S1W Core R3 core cartridge assemblies. The 426A container, the basic design for this series of shipping and storage containers, is a horizontal cylindrical metal weldment 73 1/2" diameter by 226 inches in length. The container, mounted on wooden skids, is 82-9/16 inches high and weighs 6,000 pounds empty. The 426B container is essentially identical to the 426A container in all respects except for length. The 426B container was made 292 inches long (66 inches longer than the 426A) to accommodate the no longer existing S1W-4 instrumented core cartridge and weighs 7,900 pounds empty. The container assembly consists of three major subassemblies: the upper section, the lower section, and the cradle which supports the core within the container assembly and supports the new fuel assembly. The maximum gross weight of the 426A container is 27,960 lbs.

(3) Drawings

The packaging is constructed in accordance with Applied Design Company Drawing No. 426A401, Rev. C.

(b) Contents

(1) Type and form of material

Unirradiated fuel assemblies of the following type,

- (i) S5W Core R3 cartridge assembly, with all control rods installed and restrained in a fully inserted position with rod holddown caps.
- (ii) S3W Core R2 fuel assemblies, with covers of borated steel secured in place over the assemblies, in the S3W/S4W New Core Component Adapter Kit.
- (iii) S1W Core R3 cartridge assembly, with all control rods installed and restrained in a fully inserted position by a control rod holddown plate.

(2) Maximum quantity of material per package

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

(c) Fissile Class

III

Maximum number of packages
per shipment:

one

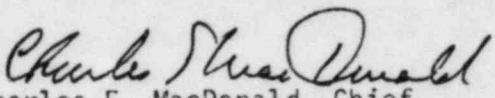
6. Expiration date: January 31, 1988.

REFERENCES

Safety Analysis Report for 426A and 426B shipping containers, WAPD-OP(R)S-3105, dated January 31, 1969.

Supplements: Bettis Atomic Power Laboratory letters WAPD-OP-(R)S-3373 dated June 11, 1969, WAPD-OP(R)C-71 dated March 6, 1972, WAPD-OP(R)C-139 dated August 4, 1972, WAPD-OP(R)C-145 dated August 11, 1972 and WAPD-OP(R)C-164 dated October 6, 1972.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

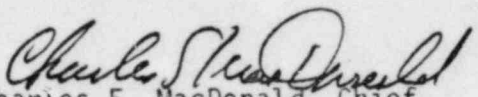

Charles E. MacDonald, Chief
Transportation Certification Branch
Division of Fuel Cycle and
Material Safety

Date: JAN 06 1983

U.S. Nuclear Regulatory Commission
Transportation Certification Branch
Approval Record
Model Nos. 426A and 426B Packaging
Docket No. 71-6049

By application dated July 27, 1982, U.S. Department of Energy requested renewal of Certificate of Compliance No. 6049. No changes have been authorized to the package design since approval of latest supplement dated October 6, 1972.

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, NMSS

Date: JAN 06 1983