

71-6406



Department of Energy
Washington, DC 20585

NR:RR:BKMiles G#05-01358
April 7, 2005

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Manager
Idaho Operations Office
Idaho Falls ID 83401

DEPARTMENT OF ENERGY CERTIFICATE OF COMPLIANCE FOR THE
UNSPECIFIED SHIPPING CONTAINER [USA/6406/B(U)F]; ADDITION OF
PRESSURIZED WATER REACTOR UNIRRADIATED SUBASSEMBLY AS AUTHORIZED
CONTENTS

Department of Energy, Idaho Operations Office (DOE/ID) letter (R. B. Provencher) dated January 24, 2005 requests an amendment to the Certificate of Compliance (CoC)[USA/6406/B(U)F] for the Unspecified Shipping Container for a one-time shipment of an unirradiated pressurized water reactor (PWR) subassembly. DOE/ID has a single PWR core 2, seed 2 subassembly in storage that was received from the Naval Nuclear Propulsion Program (NNPP) in 1977. DOE/ID is currently transferring excess special nuclear material from the INL. This unirradiated PWR subassembly was an authorized content on revision 14 of DOE CoC 6406 and was deleted in revision 15, dated July 24, 2002, since the NNPP no longer had custody of any such material.

Naval Reactors has revised CoC 6406 to add the unirradiated PWR subassembly back to the authorized contents list. Please inform Naval Reactors when the shipment has been completed.

BKMiles

B. K. Miles
Naval Reactors

Encl: (1) DOE CERTIFICATE OF COMPLIANCE USA/6406/B(U)F
(DOE-NR) REVISION 16

Copy to: See next page

NMSSOI

Copy to:

R. B. Provencher, Idaho Operations Office

N. L. Osgood, Spent Fuel Licensing, SFPO, NMSS, NRC

Manager, IBO

Manager, PNRO

Manager, Shipping Container Analysis, REO, Bettis

Manager, Shipping Container Analysis and Test, RSO, KAPL

KAPL ADSARS

DOE CERTIFICATE OF COMPLIANCE
USA/6406/B(U)F (DOE-NR) REVISION 16

U. S. DEPARTMENT OF ENERGY
CERTIFICATE OF COMPLIANCE
For Radioactive Materials PackagesOMB Approval
No. 1910-2000

1a. Certificate Number USA/6406/B(U)F (DOE-NR)	1b. Revision No. 16	1c. Package Identification No. USA/6406/B(U)F (DOE-NR)	1d. Page No. 1	1e. Total No. Pages 2
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2. PREAMBLE

- 2a. This certificate is issued under the authority of 49CFR Part 173.7(d).
- 2b. The packaging and contents described in Item 5 below, meets the safety standards set forth in subpart E, "Package Approval Standards" and subpart F, "Package, Special Form, and LSA-III Tests" Title 10, Code of Federal Regulations, Part 71.
- 2c. 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

(1) Prepared by (Name and address): Bettis Atomic Power Laboratory P. O. Box 79 West Mifflin, PA 15122-0079 Knolls Atomic Power Laboratory P. O. Box 1072 Schenectady, NY 12301-1072	(2) Title and Identification of report or application: Safety Analysis Report for Packaging for Shipping Nonirradiated Fuel Elements in Unspecified Shipping Containers	(3) Date January 1971
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4. CONDITIONS

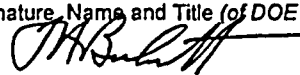
This certificate is conditional upon the fulfilling of the applicable Operational and Quality Assurance requirements of 49CFR Parts 100-199 and 10CFR Part 71, and the conditions specified in Item 5 below.

5. Description of Packaging and Authorized Contents, Model Number, Transport Index for Criticality Control, Other Conditions, and References:
Unspecified Shipping Containers**a. Description of Packaging**

This Certificate of Compliance is a general certification issued for the transport of unirradiated fabricated Naval Reactors fuel elements. Due to the form of these fuel elements and limitations imposed upon the number of fuel elements allowed per shipment, the presence of a shipping container (i.e., packaging) is not necessary to meet the requirements of DOE Order 460.1A and 10CFR71. The shipping container designs to be used for transporting the fuel elements on this certificate are generically described as a thin-walled steel enclosure (wall thickness 1.0 inch or less). Specifically, the form of the fuel is such that under both normal and accident conditions of transport, the release of radioactivity in excess of allowable limits is precluded even though structural damage to the fuel element could occur. Criticality is prevented by limiting the quantity of fuel allowable per shipment.

b. Authorized Contents

Authorized content is listed below. The shipping container designation meets the generic description and is provided for information and identification purposes only. Use of this specific container is not necessary to meet the requirements of 460.1A and 10CFR71.

6a. Date of Issuance: April 7, 2005	6b. Expiration Date: July 31, 2007
FOR THE U.S. DEPARTMENT OF ENERGY	
7a. Address (of DOE Issuing Office) Naval Reactors U. S. Department of Energy Washington, D. C. 20585	7b. Signature, Name and Title (of DOE Approving Official)  T. H. Beckett Deputy Director, Naval Reactors

5.b. Authorized Contents (Continued)

- 1) D2W rodged fuel cell or D2W unrodged corner fuel module in a Model 658H1AB shipping and storage container. Rodged type fuel modules must have a control rod holddown device installed. (See applicable safety analysis report for maximum allowable quantity of fuel assemblies).
- 2) PWR subassembly in unspecified shipping container (one PWR Core 1 (Seed 2,3, or 4) subassembly or Core 2 (Seed 1 or 2) subassembly).

c. Criticality Safety Index

The Criticality Safety Index (CSI) for criticality control for the authorized contents listed above is 100 for 5.b.(1) and 62.5 for 5.b.(2).

d. Other Conditions (Restrictions)

None.

e. References

None.

f. Additional Information

Nuclear Regulatory Commission memorandum dated September 18, 1978 stated that shipping of the D2W rodged and unrodged type fuel modules and PWR Core 1 or 2 unrodged fuel assembly or subassembly comply with the requirements of 10CFR71.