

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

1.(a) Certificate Number	1.(b) Revision No.	1.(c) Package Identification No.	1.(d) Pages No.	1.(e) Total No. Pages
9119	3	USA/9119/B()F	1	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 BAPL 5910 Birdcage
shipping container dated February 27, 1968.

3.(c) Docket No. 71-9119

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.: BAPL 5910 Birdcage

(2) Description

The BAPL 5910 Birdcage shipping container consists of a steel or aluminum box mounted in a slotted angle frame. The inner container is a 14 gauge steel or aluminum box with a hinged and gasketed lid. The cross section of the box is variable but may not exceed 20 in². The box is centered in the outer frame with bolted sections of steel angle. Both the box and the angles enclosing it are sealed with 3/4" steel banding. Aluminum boxes must be completely enclosed with steel. The outer frame is 2 feet square and from 5 to 12 feet long. The frame is constructed of slotted steel angle 3 1/8" x 1 5/8" x 0.104" and is fastened together with 3/8" diameter bolts. The weight of the loaded package varies with the length of the birdcage; a typical weight is 375 pounds for a 12' birdcage.

(3) Drawings

The packaging is constructed in accordance with the description and drawings contained in Bettis Atomic Power Laboratory Safety Analysis Report, WAPD-0(A0)-4191, dated February 27, 1968.

(b) Contents

(1) Type and form of material

Unclad alloy filters and clad fuel elements or fuel assemblies containing U-235.

(2) Maximum quantity of material per package

1900 grams of U-235. The contents of the inner container is limited to 9 pounds per foot of length of the inner container.

(c) Fissile Class

III

Maximum number of packages per shipment for Fissile Class III:

16

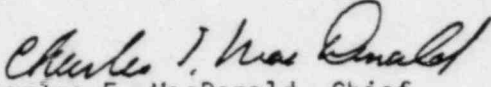
6. The melting point of the contents shall not be less than 1700°F.
7. Significant quantities of heavy water, carbon, or beryllium are not permitted.
8. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12(b).
9. Expiration date: March 31, 1988.

REFERENCES

Safety Analysis Report for BAPL 5910 Birdcage shipping container, WAPD-0(A0)-4191; Revision 2, dated February 27, 1968.

Supplements: Bettis Atomic Power Laboratory letters WAPD-RS(CC)-1269 dated April 1975 and WAPD-RS(CC)-1502 dated June 1975.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

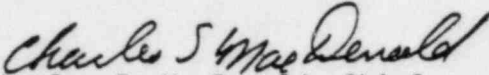

Charles E. MacDonald, Chief
Transportation Certification Branch
Division of Fuel Cycle and
Material Safety

Date: MAR 14 1983

U.S. Nuclear Regulatory Commission
Transportation Certification Branch
Approval Record
Model No. BAPL 5910 Birdcage Packaging
Docket No. 71-9119

By application dated July 27, 1982, U.S. Department of Energy requested renewal of Certificate of Compliance No. 9119. No changes have been authorized to the package design since approval of latest supplement dated June 1975.

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

MAR 14 1983

Date: _____