

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 |
|--------------------------|--------------------|----------------------------------|-----------------|-----------------------|
| 5641 | 1 | JSA/5641/AF | 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):
United Nuclear Corporation
67 Sandy Desert Road
Uncasville, CT 06382

3.(b) Title and identification of report or application:

United Nuclear Corporation Application dated
February 2, 1968, as supplemented.

3.(c) Docket No. 71-5641

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.: UNC-2500

(2) Description

The inner container is a box-like construction consisting of steel sheet or 6061-T aluminum with all welded construction. Dimensions are 7-inch by 7-inch by 60-1/2-inch to 62-3/4-inch length or 8-7/8-inch by 13-1/2-inch by 88-1/2-inch length. The outer container is birdcage construction formed by a 2-inch by 2-inch by 3/16-inch or 1/4-inch hot rolled angle iron or 6061-T aluminum all welded construction. Maximum gross weight is 7,000 pounds.

(3) Drawings

The packaging is constructed in accordance with United Nuclear Corporation Drawing Nos. A-30340, A-301085, and A-30203.

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5. (b) Contents

(1) Type and form of material

Unirradiated fuel clusters, modules or other assemblies.

(2) Maximum quantity of material per package

Not to exceed Type A quantities radioactive material and components containing U-235 as specified in Table 1001-I, Revisions 2 and 3 of United Nuclear Corporation applications dated September 14, 1972 and December 2, 1975. The contents of a single shipping container shall be limited to one (1) module or cluster.

(c) Fissile Class

(1) For the contents described in 5(b)(1), and limited in 5(b)(2), the maximum number of components per shipment are limited to the following:

| <u>Item</u> | <u>Component</u> | <u>Maximum number of components per shipment</u> |
|-------------|---|--|
| 1. | Element | 40 |
| | Sub-Assm | 9 |
| 2. | Element | 48 |
| | Removable Sub-Assm | 20 |
| | Sub-Assm | 8 |
| | Corner or Cluster Module | 4 |
| | Cluster | 2 |
| 3. | Element | 22 |
| | Sub-Assm | 4 |
| | <Type A Module | 2 |
| | Module | 1 |
| 4. | Element (1) | 20 |
| | Element (2) | 22 |
| | Pre-Assm (2) | 6 |
| | Sub-Assm (1)(2) | 4 |
| | Removable Fuel Assm (1)(2) | 20 |
| | Cluster (1)(2) | 1 |
| 5. | Element | 20 |
| | Pre-Assm (Type A, E, F) | 4 |
| | Sub-Assm (Type D, or Types D + B/C, or 2 B/C) | 4 |
| | Pre-Assm (Type D or B/C) | 6 |
| | Cluster | 1 |

5.(c)(1) Fissile Class (Continued)

| <u>Item</u> | <u>Component</u> | <u>Maximum number of components per shipment</u> |
|-------------|---------------------------------------|--|
| 6. | Element | 20 |
| | Outer Pre-Assm (1)(4)(11) | 3 |
| | Sub-Assm (corner clus) | 4 |
| | Inner Pre-Assm (2)(3)(5)(6)(8)(9)(10) | 4 |
| | Corner Pre-Assm (7) | 4 |
| | Inner Sub-Assm | 4 |
| | Inner Cluster | 1 |

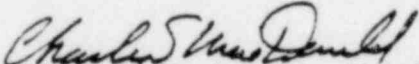
6. Additionally, a maximum of 700 grams U-235 or 40 grams U-235/inch of the type and form of material specified in 5(b)(1) may compose a Fissile Class III shipment.
7. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12(b).
8. Expiration date: March 31, 1986.

REFERENCES

United Nuclear Corporation application dated February 2, 1968.

Supplements dated: July 19, August 9, and December 4, 1968; October 30, 1969; September 14, 1972; and December 2, 1975.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION


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

Date: MAR 02 1981