

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

1.(a) Certificate Number 497	1.(b) Revision No. 2	1.(c) Package Identification No. USA/4949/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) Preparer by (Name and address): United Nuclear Corporation Recovery Operations Wood River Junction, RI 02894	3.(b) Title and identification of report or application: United Nuclear Corporation application dated October 5, 1979. 3.(c) Docket No. 71-4949
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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.: UNC-1484

(2) Description

Containment vessel consists of a 5 1/4" ID x 36 1/2" long and 3/8" thick steel pipe with welded bottom plate and bolted top flange closure. Containment vessel is centered and supported within a 65 gallon minimum 16-gage steel drum with DOT Spec. 17H closure by plywood spacers, benelex, tubular steel spokes, and insulation material.

(3) Drawings

Container is constructed in accordance with United Nuclear Corporation Drawing No. D-5005-8017, Rev. 1.

(b) Contents

(1) Type and form of material

Uranium oxide and compounds which will withstand a temperature of 750° without pressure generating decomposition. Density may not exceed 5.3 g U/cc. The theoretical-density-moderator relationship for "U compounds" shown in Figure 309 XXIV, dated

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5. (b) Contents

(1) Type and form of material (Continued)

February 6, 1970, Docket 70-36, or in Figure 1.D.17 of the UK Handbook may not be exceeded. Uranium may be enriched to any degree in the U-235 isotope. The maximum H/X atomic ratio considering all sources of hydrogenous material interspersed with the fissile material shall not exceed 0.5.

(2) Maximum quantity of material per package

Total contents not to exceed 65 pounds with the U-235 content not to exceed 25.4 kg.

(c) Fissile Class II and III

(1) Minimum transport index to be shown on label for Class II 2.0

(2) Maximum number of packages per shipment for Class III 50

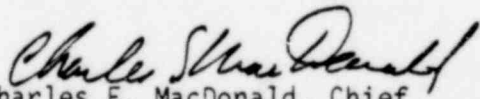
6. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12(b).

7. Expiration date: December 31, 1984.

REFERENCE

United Nuclear Corporation application dated October 5, 1979.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION


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

Date: OCT 21 1979

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