



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

FEB 17 1970

CEM
12-820
SMM-777, Amendment No. 71-20

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United Nuclear Corporation
Commercial Products Division
Route 21A
Hematite, Missouri 63047

Attention: Mr. L. J. Swallow, Manager
Nuclear & Industrial Safety

Gentlemen:

Enclosed is Amendment No. 71-20 to Special Nuclear Material License No. SMM-777, authorizing the delivery of special nuclear material to a carrier for transport in the Model UNC-1634 package. This amendment supersedes, in its entirety, Amendment No. 71-4 previously issued for this package.

This amendment does not authorize the transport of special nuclear material. Such transport is normally subject to regulation by the Department of Transportation (DOT). Questions regarding their requirements should be directed to DOT.

Sincerely,

Original Signed by
Donald A. Nussbaumer

Donald A. Nussbaumer, Chief
Source & Special Nuclear
Materials Branch
Division of Materials Licensing

Enclosure:
As stated

cc: Mr. William A. Brobst
Department of Transportation

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UNITED STATES
ATOMIC ENERGY COMMISSION

LICENSE AMENDMENT
for
DELIVERY OF SPECIAL NUCLEAR MATERIAL
to a
CARRIER FOR TRANSPORT

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 70, and Part 71, the following amendment to the special nuclear material license identified below is hereby issued, authorizing the licensee to deliver special nuclear material to a carrier for transport, and is subject to the conditions specified in that license and to the conditions specified below.

LICENSEE	
1. Name: United Nuclear Corporation	3. License No. SNM- <u>777</u>
2. Address: P. O. Box 1883 365 Winchester Avenue New Haven, Connecticut 06508	Amendment No. <u>71-20</u>
	4. Docket No. <u>70-820</u>

CONDITIONS

5. (a) Packaging

- (1) Model number UNC-1634
- (2) Description Inner container is 14-inch I.D., 16-gage steel tube, 56 to 65-inches long. Inner container is centered and supported in a 22.5-inch I.D. by 58 to 79-inches long steel drum of minimum 16-gage thickness. Void spaces within inner and outer containers filled with vermiculite. The inner container is filled with molded rubberized hair, high density polyethylene, wood, plastic or rubber to form four (4) centrally located 3-inch square cavities. Active fuel area of the fuel elements shall be within the inner container.
- (3) Drawings Container constructed in accordance with United Nuclear Corporation Drawings D-20223, Rev. 2, D-20247, Rev. 2, and D-20250, Rev. 7.

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LICENSEE: United Nuclear Corporation

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(b) Contents

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| (1) Type and form of material | Uranium of any U-235 enrichment, as plate type fuel elements, having a maximum H/U-235 ratio less than 2 within the active fuel volume. |
| (2) Maximum quantity of material per package | Four (4) plate type fuel elements. Each element to contain no more than 0.61 kg U-235 with a gross active fuel cross sectional area not exceeding 7.1 square inches, and a minimum active fuel length of 23-inches. |

(c) Fissile Class II and III

- | | |
|---|-------------|
| (1) Minimum transport index to be shown on label for Class II | 7.2 |
| (2) Maximum number of packages per shipment for Class III | 14 packages |

6. This amendment supersedes, in its entirety, Amendment No. 71-4 to Special Nuclear Material License No. SNM-777, dated July 5, 1967.

REFERENCES

Licensee's application dated November 19, 1966, for an amendment to Special Nuclear Material License Nos. SNM-33, SNM-368 and SNM-777 to deliver special nuclear material to a carrier for transport in the UNC-1634 package.

Supplements dated June 12, 1967, and January 22, 1970.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by
Donald A. Nussbaumer

Date of Amendment FEB 17 1970

Donald A. Nussbaumer
Division of Materials Licensing

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