

THIS LICENSE EXPIRES 30 April 2002

**United States of America**  
Nuclear Regulatory Commission

**XSNM03171**  
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Pursuant to the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974 and the regulations of the Nuclear Regulatory Commission issued pursuant thereto, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued

to the licensee authorizing the export of the materials and/or production or utilization facilities listed below, subject to the terms and conditions herein.

LICENSEE

Transnuclear, Inc.  
Four Skyline Drive  
Hawthorne, NY 10532

Attn: J. Mangusi

ULTIMATE CONSIGNEE IN FOREIGN COUNTRY

Atomic Energy of Canada, Ltd.  
Chalk River Nuclear Laboratories  
Chalk River, Ontario  
Canada KOJ 1J0

(To be used in the fabrication of target material for the production of medical isotopes at the NRU Reactor)

INTERMEDIATE CONSIGNEE IN FOREIGN COUNTRY

NONE

OTHER PARTIES TO EXPORT

U.S. Department of Energy  
Oak Ridge, TN 37831

(Supplier)

APPLICANT'S REF. NO.

MIS-545

COUNTRY OF ULTIMATE DESTINATION

Canada

QUANTITY

9.377  
Kilograms

DESCRIPTION OF MATERIALS OR FACILITIES

Uranium-235 Contained in 10.05 kilograms uranium, enriched to 93.3 w/o maximum, in the form of metal pieces.

Conditions 4, 6, 8 and 9 on page two of this license apply to this export.

//////////////////////////////////////END//////////////////////////////////////

Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954, as amended and the Energy Reorganization Act of 1974.

This license is subject to the right of recapture or control by Section 108 of the Atomic Energy Act of 1954, as amended and to all of the other provisions of said Acts, now or hereafter in effect and to all valid rules and regulations of the Nuclear Regulatory Commission.

THIS LICENSE IS INVALID UNLESS SIGNED BELOW  
BY AUTHORIZED NRC REPRESENTATIVE

*Ronald D. Hauber*

Ronald D. Hauber, Deputy Director  
Office of International Programs

DATE OF ISSUANCE April 3, 2001

U.S. NUCLEAR REGULATORY COMMISSION  
**EXPORT LICENSE**

License Number           XSNM03171          

**Conditions**

- Condition 1 --** Licensee shall file with the Customs Officer or the Postmaster two copies, in addition to those otherwise required, of the Shipper's Export Declaration covering each export and mark one of such copies for transmittal to the U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. The following declaration should accompany or be placed on the Shipper's Export Declarations for such exports:
- "This shipment is being made pursuant to specific license number (**specific license number**) filed at (**location of customs office where license is filed**), on (**date license was filed**). This license expires on (**expiration date of license**), and the unshipped balance remaining on this license is sufficient to cover the shipment described on this declaration."
- Condition 2 --** Exports authorized in any country or destination, except Country Groups Q, S, W, X, Y, and Z in Part 370, Supplement No. 1, of the Comprehensive Export Schedule of the U.S. Department of Commerce.
- Condition 3 --** This license covers only the nuclear content of the material.
- Condition 4 --** The material to be exported under this license shall be shipped in accordance with the physical protection requirements for special nuclear material in 10 CFR 73.
- Condition 5 --** Special nuclear material authorized for export under this license shall not be transported outside the United States in passenger-carrying aircraft in shipments exceeding (1) 20 grams or 20 curies, whichever is less, of plutonium or uranium 233, or (2) 350 grams of uranium 235.
- Condition 6 --** This license authorizes export only and does not authorize the receipt, physical possession, or use of the nuclear material.
- Condition 7 --** The licensee shall complete and submit an NRC Form 741 for each shipment of source material exported under this license.
- Condition 8 --** The licensee shall advise the NRC in the event there is any change in the designation of the company who will package the nuclear material to be exported under this license, or any change in the location of the packaging operation, at least three weeks prior to the scheduled date of export.
- Condition 9 --** The licensee is authorized to export immediately 5 kilograms of HEU metal for use at the NRU reactor. The remaining 5.05 kilograms of HEU are not to be exported until the licensee has provided the Commission with at least 60 days' notice of the export and has updated the status of the NRU reactor and the need for the additional material.