

EXPORT LICENSE

NRC FORM 250
(6-94)

NRC LICENSE NO.

THIS LICENSE EXPIRES February 28, 2008

XSNM3504
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United States of America
Nuclear Regulatory Commission

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

ULTIMATE CONSIGNEE IN FOREIGN COUNTRY

U.S. Department of Energy (DOE)
National Nuclear Security Administration (NNSA)
Y-12 National Security Complex
P.O. Box 2050
Bear Creek Road
Oak Ridge, TN 37831

Atomic Energy of Canada Limited (AECL)
Chalk River Laboratories
Chalk River
Ontario KOJ 1J0
Canada

Attn: Becky G. Eddy

(Fabrication of targets for production of medical isotopes at the National Research Universal [NRU] Reactor.)

INTERMEDIATE CONSIGNEE IN FOREIGN COUNTRY

OTHER PARTIES TO EXPORT

NONE

NONE

APPLICANT'S REF. NO.

AECL HEU-NOV07

COUNTRY OF ULTIMATE DESTINATION

Canada

QUANTITY

DESCRIPTION OF MATERIALS OR FACILITIES

14.470
Kilograms

Uranium-235 Contained in 15.5 kilograms uranium enriched to 93.35 w/o maximum, as uranium broken into metal pieces.

Conditions 6, 8 and 9 on Page 2 of this license apply to this export.

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

Neither this license or 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

Scott W. Moore
Scott W. Moore, Deputy Director
Office of International Programs

DATE OF ISSUANCE October 19, 2007

U.S. NUCLEAR REGULATORY COMMISSION
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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, D.C. 20555-001. 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 – This 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 – If, while within U.S. jurisdiction, the material to be exported under this license is not protected in transit utilizing the services and equipment of the Department of Energy (DOE)/National Nuclear Security Administration (NNSA) Office of Secure Transportation in accordance with the DOE requirements and directives for the transport of such material, then the licensee must comply with applicable 10 CFR Part 73 regulations on physical security measures including any NRC-required enhancements thereto and must obtain NRC's approval of the physical security plan for transportation prior to the shipment campaign.