

THIS LICENSE EXPIRES 31 December 2001

## United States of America

## Nuclear Regulatory Commission

XR164

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

U.S. Department of Energy  
1000 Independence Avenue, S.W.  
Washington, DC 20585

Attn: Jon Wolfsthal

## ULTIMATE CONSIGNEE IN FOREIGN COUNTRY

Instituto de Ciencias Nucleares  
IAN-RI Research Reactor  
Bogota, Colombia

(Equipment to be used for conversion of IAN-RI  
core from HEU core to LEU core)

## INTERMEDIATE CONSIGNEE IN FOREIGN COUNTRY

NONE

## OTHER PARTIES TO EXPORT

General Atomics  
3550 General Atomics Court  
San Diego, CA 92121-1194

(Supplier)

## APPLICANT'S REF. NO.

Appl dtd 03/28/96

## COUNTRY OF ULTIMATE DESTINATION

Colombia

## QUANTITY

## DESCRIPTION OF MATERIALS OR FACILITIES

The licensee is authorized to export nuclear components needed to upgrade the Colombian IAN-RI Research Reactor for conversion to use of low-enriched nuclear fuel. Items authorized for export are as follows:

A) Primary cooling system pump; b) three boron carbide control rods; c) control rod hardware; d) fuel cluster hardware; e) fourteen graphite reflector elements; f) four stainless steel "dummy" fuel rods; g) one set of fuel handling tools; h) reactor service equipment and tools; i) support fixtures including a fuel storage rack; j) three experiment guide tubes; k) one 100kw reactor pool cooling system, including heat exchanger, cooling tower, piping, valves, secondary pump, instrumentation and connecting hardware; l) one reactor pool water purification system including filters, pump, valves, piping and instrumentation; m) one pneumatic sample transfer system; n) other specially designed or prepared components, including spare parts; and o) operations and maintenance manuals and drawings.

Value of items to be exported - \$550,000.00.

END

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PDR XPORT  
XR-0164 PDR

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, Director  
Division of Nonproliferation, Exports  
and Multilateral Relations  
Office of International Programs

DATE OF ISSUANCE

SEP 25 1996

EXPORT LICENSE

DA-1-1 Export, Import

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

License Number XR164

**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.