Form AEC-7
(2-67)
10 CFR 30, 40

U.S. ATOMIC ENERGY COMMISSION
Washington, D.C. 20545

Form approved
Budget Bureau No.
38-R0007.

XSNM01428
11000358

APPLICATION FOR LICENSE TO EXPORT BYPRODUCT, SOURCE, OR SPECIAL NUCLEAR MATERIAL

Submit in Triplicate

Carefully Read Instructions on Back

1 DATE OF APPLICATION	2 APPLICANT'S REFERENCE NO. (If any)	3 COUNTRY OF ULTIMATE DESTINATION
December 7, 1978	78-350/01 NUK 257	Austria

4 NAME OF APPLICANT	5 ULTIMATE CONSIGNEE IN FOREIGN COUNTRY (Name and address)
Transnuclear, Inc. STREET ADDRESS 5205 Leesburg Pike CITY, STATE, AND ZIP CODE Falls Church, Virginia 22041	Osterreichische Studiengesellschaft fur Atomenergie Ges.m.b.H Lenaugasse 10 A-1082 WIEN, Austria
6 INTERMEDIATE CONSIGNEE IN FOREIGN COUNTRY (Give name and address. If same as ultimate consignee, state "Same.")	**7 IF PURCHASER IN FOREIGN COUNTRY IS OTHER THAN ULTIMATE CONSIGNEE, GIVE NAME AND ADDRESS.** (If same, state "Same.")
NUKEM GmbH, D-6450 Hanau 11, Federal Republic of Germany or CERCA/France	Transnuklear GmbH 645 Hanau, Postfach 348 Wolfgang-bei-Hanau Industriegelande Hessen, W. Germany

8 (a) QUANTITY TO BE SHIPPED (See instructions on back)	(b) COMMODITY DESCRIPTION (Include chemical and physical form; for special nuclear material and byproduct material also specify isotopic content; if in a device, identify the device, manufacturer, and model number.)
3.810 Kg U 3.554 Kg U235	Uranium in the form of uranium hexafluoride enriched to a maximum 93.3 percent U235. This material will be packaged and supplied by Goodyear Atomic Corp., Piketon, Ohio for shipment to take place after issuance of license.

(c) SHIPPING AND PACKING PROCEDURES (Required for special nuclear material. See instructions on back.)

I.A.E.A. Certificate of Competent Authority 4909 in accordance with 10 CFR Part 71.

9 END USE OF COMMODITIES COVERED BY THIS APPLICATION: (Describe fully, stating what will be produced or manufactured, what service will be rendered, or the nature of the research that will be performed.) (See instructions on back for special nuclear material.)

Will be used for the fuel of reactor Astra at Seibersdorf, Austria.
(See attached End Use Statement)

10 The applicant, and any official executing this certificate on behalf of the applicant named in Item 4, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Parts 30 and 36 (if for byproduct material) or Part 40 (if for source material), or Part 70 (if for special nuclear material), and Part 71 (for transport of radioactive material, if applicable) and that all information contained herein, including any supplements attached hereto, is true and correct to the best of their knowledge and belief.

Please issue for period of one year.
This material is privately owned.

Transnuclear, Inc.
(Applicant named in Item 4)

By: Beverly Josephs

Manager, Washington Operations
(Title of certifying official authorized to act on behalf of the applicant)

RECEIVED
U.S. NRC

1978 DEC 8 PM 4 23

EXPORT/IMPORT
BRANCH OF ORIGIN

Warning: 18 U.S.C. Section 1001, Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction

7812150361

Österreichische
Studiengesellschaft für Atomenergie Ges.m.b.H.
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Institut Astra-Reaktor
Forschungszentrum Seibersdorf
Telefon: (02254) 80*
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Telegramm: austratom wien
Bankverbindungen
C A - Bankverein: 26-34343/02
E. ö. Spar-Casse: 100-94709
Österr. Länderbank: 106-100-432

To whom it may concern

Ihr Zeichen	Ihre Nachricht vom	Unser Zeichen	Sachbearbeiter	Telefon (Durchwahl)	Datum
		AR/Bu/st	Dr.Burtscher	* 2350	78 10 30

Betreff:

END-USE-STATEMENT

The undersigners certify that a quantity of

3.810 kgs of uranium (93.3 % U-235 enriched) in form of UF6 and containing 3.554 kgs of U-235

which will be furnished to us by US-DOE will be used by us for the fuel of reactor Astra at Seibersdorf, Austria.

The enriched UF 6 shall be converted into uranium metal by NUKEM GmbH, D-6450 Hanau 11, Federal Republic of Germany. NUKEM/FRG or CERCA/France shall manufacture the fuel elements for us.

We authorize Transnuclear Inc., 5205 Leesburg Pike, Falls Church, Va. 22041, USA, to apply for the export license.

Yours Sincerely,

Österreichische
Studiengesellschaft für Atomenergie
Ges.m.b.H.

ppa. Burtscher ppa. Goldmann

CHECKLIST FOR USE IN REVIEW OF REQUESTS FOR HIGHLY ENRICHED URANIUM TO DETERMINE NRC TECHNICAL AND ECONOMIC JUSTIFICATION

Date 1978 lo 31

1. Name of Facility: ASTRA-Reactor; Research Center Seibersdorf, Austrian Atomic Energy Research Organisation Ltd.
2. Quantity of Uranium Requested (Kgs): 3,81o kg
3. Enrichment in the Isotope U-235 (%): 93,3 %
4. Sale or Toll Enriching: Sale
5. Current Core Loading (Kgs of U-235): 3.5o ± o.1 kg U-235 (5,75 kg U-235 unirradiated fuel elements)
6. Current Power Level (MWth): 8
7. Criticality and Full Operating Power Dates and Power Rating (if request involves new facility): Sept. 1960
8. Name of Convertor and Fabricator of Fuel: Convertor: NUKEM, Ges.m.b.H./FRG.

   Fabricator: NUKEM and CERCA/FRANCE
9. Breakdown of Fuel Inventory (Kgs of U-235):
   a. Amount of U-235 in Fabrication outside USA Including Scrap Allowances: ———
   b. Amount of U-235 in Storage in Completed, Unirradiated Fuel Elements:

      1.734 kg U-235
   c. Amount of U-235 in Core: 3.68 kg U-235 (5.75 kg U-235 in unirradiated fuel elements)
   d. Amount of U-235 in Spent Fuel Storage within the Community ~~Including Chemical Reprocessing Plants, and the Reprocessing Schedule for Such Material:~~

      2,442 kg U-235 corresponding to 6.74 kg U-235 in unirradiated fuel elements
   e. Amount of U-235 ~~lost and/or~~ Consumed During Operation of Above Facility:

      6.36 kg U-235
   f. Amount of U-235 per Fuel Element: 28o g
   g. Average Core Life: 3.5 years
   h. Average Lead Time for Conversion and Fuel Fabrication if Conversion and Fabrication is to be Done Abroad:

      9-12 months