

APPLICATION FOR LICENSE TO EXPORT NUCLEAR
MATERIAL AND EQUIPMENT (See Instructions on Reverse)

1. APPLICANT'S USE		a. DATE OF APPLICATION December 17, 1979		b. APPLICANT'S REFERENCE (NUK-311) 79-337/01		2. NRC USE		a. LICENSE NO. XSNMU1632		b. DOCKET NO. 11000961			
3. APPLICANT'S NAME AND ADDRESS						RIS		4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier of material)				RIS	
a. NAME Transnuclear, Inc.						U.S.D.O.E.							
b. STREET ADDRESS One Skyline Place, 5205 Leesburg Pike						a. NAME c/o Goodyear Atomic Corp.							
c. CITY Falls Church				STATE VA		ZIP CODE 22041		b. STREET ADDRESS Route One					
d. TELEPHONE NUMBER (Area Code - Number - Extension) (703) 280-2450						c. CITY Piketon				STATE OH		ZIP CODE 45661	
5. FIRST SHIPMENT SCHEDULED		6. FINAL SHIPMENT SCHEDULED		7. APPLICANT'S CONTRACTUAL DELIVERY DATE To be determined		8. PROPOSED LICENSE EXPIRATION DATE One year from date of issuance		9. U.S. DEPARTMENT OF ENERGY CONTRACT NO. (If Known) To be assigned					
10. ULTIMATE CONSIGNEE						RIS							
a. NAME Commission of the European Communities (J.R.C.)						11. ULTIMATE END USE (Include plant or facility name) Will be used for the H.F.R. Reactor at Petten, Netherlands (See attached End Use Statement)							
b. STREET ADDRESS Petten Establishment, Postbus 2, 1755ZG						11a. EST. DATE OF FIRST USE							
c. CITY - STATE - COUNTRY Petten, The Netherlands						12. INTERMEDIATE CONSIGNEE							
RIS						13. INTERMEDIATE END USE Conversion and fabrication of fuel elements (See attached End Use Statement)							
a. NAME Nukem, GmbH						13a. EST. DATE OF FIRST USE							
b. STREET ADDRESS D-6450 Hanau						15. INTERMEDIATE END USE Intermediate for transport purposes only.							
c. CITY - STATE - COUNTRY Federal Republic of Germany						15a. EST. DATE OF FIRST USE							
14. INTERMEDIATE CONSIGNEE						RIS							
a. NAME Transnuklear, GmbH						16. NRC USE							
b. STREET ADDRESS 645 Hanau, Postfach 110030, Wolfgang-bei-Hanau Industriegelände,						17. DESCRIPTION (Include chemical and physical form of nuclear material; give dollar value of nuclear equipment and components) Uranium in the form of uranium hexafluoride enriched to 93.30 percent U235.							
c. CITY - STATE - COUNTRY Hessen, West Germany						18. MAX. ELEMENT WEIGHT 16.04 Kg U		19. MAX. WT. % 93.3%		20. MAX. ISOTOPE WT. 14.965 Kg U		21. UNIT Kg	
22. COUNTRY OF ORIGIN - SOURCE MATERIAL						23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED U.S.		24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known) EURATOM					
25. ADDITIONAL INFORMATION (Use separate sheet if necessary) 90010330 8001080 170													
26. The applicant certifies that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information in this application is correct to the best of his/her knowledge.													
27. AUTHORIZED OFFICIAL				a. SIGNATURE				b. TITLE Assistant Manager - Tech. Operations					



PETTEN ESTABLISHMENT
Postbus 2, 1755 ZG Petten, The Netherlands
Tel. 1022461-6442 - Telex 57211 REACP

TO WHOM IT MAY CONCERN.
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Our reference FD/ma/83.633 Your reference

Petten 19th November 1979.

END USE STATEMENT.

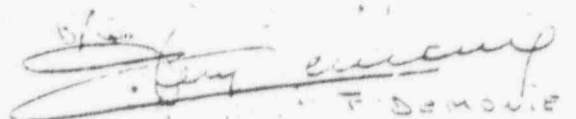
The undersigner certifies that the following material, i.e. 16,04 kgs of uranium (93,3 % U-235 enriched) in the form of UF₆ and containing 14.965 Kgs of U-235 which will be furnished to us under a Short-Term Fixed Commitment Contract with US-DOE will be used for the H.F.R.-reactor of the European Community located at Petten, the Netherlands.

NUKEM GmbH, D 6450 Hanau, Federal Republic of Germany, shall perform the conversion work for us. Manufacturing of the fuel elements shall be performed by NUKEM, Hanau.

We authorize Transnuclear Inc., Falls Church, Va., to apply for the export license.

90010331

Mr. P.J. van Westen,
(Director)


P.J. van Westen

POOR ORIGINAL

Date 19th november 1979

1. Name of Facility: HIGH FLUX REACTOR/PETTEN
2. Quantity of Uranium Requested (Kgs): 16.04
3. Enrichment in the Isotope U-235 (%): 93,3 %
4. Sale or Tell Enriching: _____
5. Current Core Loading (Kgs of U-235): 10,9 Kgs
6. Current Power Level (MWth): 45 MW
7. Criticality and Full Operating Power Dates and Power Rating (if request involves new facility): _____
8. Name of Converter and Fabricator of Fuel: NUKEM GmbH - HANAU
FEDERAL REPUBLIC OF GERMANY
9. Description of Fuel Inventory (Kgs of U-235): as per 16th november 1979
 - a. Amount of U-235 in Fabrication outside USA Including Scrap: (93,3 %)
Allowances: 40,7 Kgs (NUKEM) + 36,2 Kgs (CERCA)
 - b. Amount of U-235 in Storage in Completed, Unirradiated Fuel Elements:
3,4 Kgs (93,3 %)
 - c. Amount of U-235 in Core: 10,9 Kgs (86 %)
 - d. Amount of U-235 in Spent Fuel Storage within the Community including Chemical Reprocessing Plants, and the Reprocessing Schedule for Such Material:
 - a) spent fuel in HFR pools : 9,5 Kgs partly BU + 16,4 Kgs full BU
 - b) TO RECALL : 9,4 Kgs (75 %) at DOE-Savannah River (After reprocessing)
 - e. Amount of U-235 lost and/or Consumed During Operation of Above Facility: _____
 - f. Amount of U-235 per Fuel Element: 405 gms per fuel elem. and 280 gms per per rod. (alteration of the specification
 - g. Average Core Life: _____
 - h. Average Load Time for Conversion and Fuel Fabrication if Conversion and Fabrication is to be Done Abroad:
averages 12 - 15 months
- * Reenrichment can only occur after export licence granting by the U.S Authorities.

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