


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

1. APPLICANT'S USE		a. DATE OF APPLICATION July 3, 1980		b. APPLICANT'S REFERENCE (NUX-333) 80-149/01		2. NRC USE		a. LICENSE NO. XSNM01699		b. DOCKET NO. 11002121	
3. APPLICANT'S NAME AND ADDRESS a. NAME Transnuclear, Inc. b. STREET ADDRESS One Skyline Place, 5205 Leesburg Pike c. CITY Falls Church STATE VA ZIP CODE 22041						4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier of material) RIS U.S.D.O.E. a. NAME c/o Goodyear Atomic Corp. b. STREET ADDRESS Route One 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 a. NAME Commission of the European Communities (J.R.C.) b. STREET ADDRESS Petten Establishment, Postbus 2, 1755ZG c. CITY - STATE - COUNTRY Petten, The Netherlands						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) 11a. EST. DATE OF FIRST USE					
12. INTERMEDIATE CONSIGNEE a. NAME Nukem, GmbH b. STREET ADDRESS D-6450 Hanau c. CITY - STATE - COUNTRY Federal Republic of Germany						13. INTERMEDIATE END USE Conversion and fabrication of fuel elements (See attached End Use Statement) 13a. EST. DATE OF FIRST USE					
14. INTERMEDIATE CONSIGNEE a. NAME Transnuklear, GmbH b. STREET ADDRESS 645 Hanau, Postfach 110030, Wolfgang-bei-Hanau Industriegelände, c. CITY - STATE - COUNTRY Hessen, West Germany						15. INTERMEDIATE END USE Intermediate for transport purposes only. 15a. EST. DATE OF FIRST USE					
16. NRC USE		17. DESCRIPTION (Include chemical and physical form of nuclear material; give dollar value of nuclear equipment and components)				18. MAX. ELEMENT WEIGHT		19. MAX. WT. %	20. MAX ISOTOPE WT.	21. UNIT	
		Uranium in the form of uranium hexafluoride enriched to 93.30 percent U235.				20.050 Kg U		93.3%	18.707 KgU	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) 8007290452											
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-Wash. Operations			

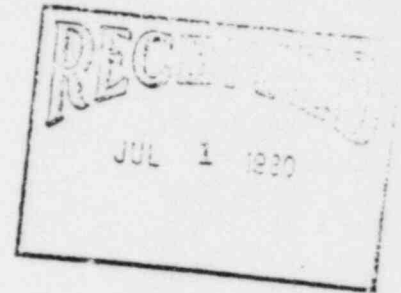
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The Establishment Director

Petten Establishment

Postbus 2, 1755 ZG Petten, The Netherlands
Tel. (02246) 6442 - Telex 57211 REACP



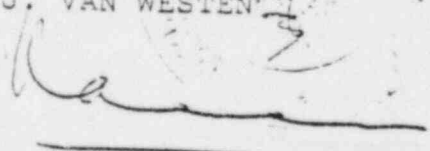
TO WHOM IT MAY CONCERN

End use Statement

The undersigner certifies that the following material, i.e. 20.050 kgs of uranium (93,3% U-235 enriched) in the form of UF₆ and containing 18.707 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 reactor at Petten, Netherlands.

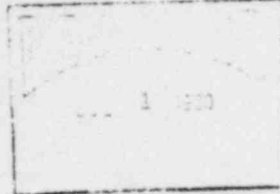
NUKEM GmbH, D 6450 Hanau, Federal Republic of Germany shall perform the conversion work for us. Manufacturing of the fuel elements shall be performed by NUKEM, Hanau.

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

Petten, June 6, 1980
P.J. VAN WESTEN


COMMUNITIES.

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

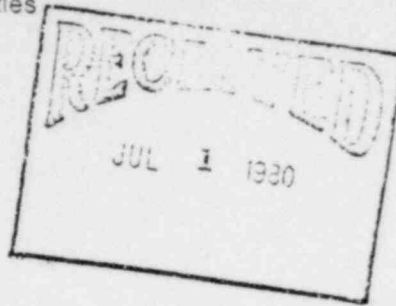


Date, June 5, 1980.

1. Name of Facility : HIGH FLUX REACTOR PETTEN.
2. Quantity of Uranium Requested (Kgs) : 20,050 Kgs.
3. Enrichment in the Isotope U-235 (%) : 93 %.
4. Sale or Toll Enriching : _____
5. Current Core Loading (Kgs of U-235) : 10,9 Kg
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 HANAU,
FEDERAL REPUBLIC OF GERMANY.
9. Breakdown of Fuel Inventory (Kgs of U-235) : as per 15th april 1980.
 - a). Amount of U-235 in Fabrication outside USA, Including Scrap (%) : _____
Allowances : 49,981 gms. (NUKEM and CERCA plants)
 - b). Amount of U-235 in Storage in Completed, Unirradiated Fuel Elements : 15,258 gms.
 - c). Amount of U-235 in Core : 10,387 gms.
 - d). Amount of U-235 in Spent Fuel Storage within the Community Including Chemical Reprocessing Plants, and the Reprocessing Schedule for such Material (1) In HFR pools:
 - a) 13,941 gms. with partly Burn up. (U 84%)
 - b) 12,592 gms. with full Burn up. (U 74%)
 - e). Amount of U-235 Lost and/or Consumed During Operation of Above Facility Consumption: averages 16 kgs/year (burn up rate 50 Losses: averages 0,4 kgs/year (in fabrication plants)
 - f). Amount of U-235 per Fuel Element : _____
405 grams per fuel element and 280 gms. per control rod.
 - g). Average Core Life : one cycle covers 23 operation days.
 - h). Average Lead Time for Conversion and Fuel Fabrication if Conversion and Fabrication is to be Done Abroad : _____
approximately 12 months.

(1) Reprocessing schedule at savannah river plant:
20 Kg TOT U/year (14, 4 Kg U₂₃₅)

RESEARCH
CENTRE



PETTEN ESTABLISHMENT
Postbus 2, 1755 ZG Petten, The Netherlands
Tel. (02246) 6442 - Telex 57211 REACP

ANNEX TO THE PETTEN URANIUM BREAKDOWN

as per 15th April 1980.

Last minute information:

N.R.C. just granted the below export licences:

- X S N M 1412 (18 Kg U₅)
- X S N M 1333 (18,7 Kg U₅)