

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

1. APPLICANT'S USE		a. DATE OF APPLICATION July 13, 1982		b. APPLICANT'S REFERENCE Nuk-408		2. NRC USE		a. LICENSE NO. XSNM01975		b. DOCKET NO. 11002912	
3. APPLICANT'S NAME AND ADDRESS						4. SUPPLIER'S NAME AND ADDRESS					
a. NAME Transnuclear, Inc.						RIS					
b. STREET ADDRESS One Skyline Place, 5205 Leesburg Pike						a. NAME c/o Goodyear Atomic Corp.					
c. CITY Falls Church				STATE VA		ZIP CODE 22041-3876		b. STREET ADDRESS Route One			
d. TELEPHONE NUMBER (Area Code - Number - Extension) 703 820-2450						c. CITY Piketon			STATE OH		ZIP CODE 45661
5. FIRST SHIPMENT SCHEDULED		6. FINAL SHIPMENT SCHEDULED		7. APPLICANT'S CONTRACTUAL DELIVERY DATE		8. PROPOSED LICENSE EXPIRATION DATE		9. U.S. DEPARTMENT OF ENERGY CONTRACT NO. (If Known)			
				To be determined		One year from date of issuance		To be assigned			
10. ULTIMATE CONSIGNEE						11. ULTIMATE END USE					
a. NAME Commission of the European Communities (J.R.C.)						(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, 1755 ZG						11a. EST. DATE OF FIRST USE					
c. CITY - STATE - COUNTRY Petten, The Netherlands						13. INTERMEDIATE END USE					
12. INTERMEDIATE CONSIGNEE						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					
c. CITY - STATE - COUNTRY Federal Republic of Germany						Intermediate for transport purposes					
14. INTERMEDIATE CONSIGNEE						15a. EST. DATE OF FIRST USE					
a. NAME Transnuklear, GmbH											
b. STREET ADDRESS 645 Hanau, Postfach 110030											
c. CITY - STATE - COUNTRY Wolfgang-bei-Hanau Industriegelände											
Hessen, West Germany											
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 93.44 percent U235				30.075 Kgs U		93.3%	28.060 kgs	Kg	
22. COUNTRY OF ORIGIN - SOURCE MATERIAL			23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED			24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known)					
			U.S.			EURATOM					
25. ADDITIONAL INFORMATION (Use separate sheet if necessary)											
8208030718 820713 PDR XPORT PDR XSNM-1975											
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 Traffic Coordinator		

JOINT
RESEARCH
CENTRE



Petten Establishment

Postbus 2, 1755 ZG, Petten, The Netherlands
Tel. (022-6) 6442 - Telex 57211 REACP

EINGANG
6.1. JULI 1982
Ableitung DL

TO WHOM IT MAY CONCERN

END USE STATEMENT

The undersigned certifies that the following material, i.e. 30,075 kgs of uranium (93,3% U-235 enriched) in the form of UF₆ and containing 28.060 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 High Flux Reactor of the European Communities (HFR) 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 GmbH, D-6450 Hanau.

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

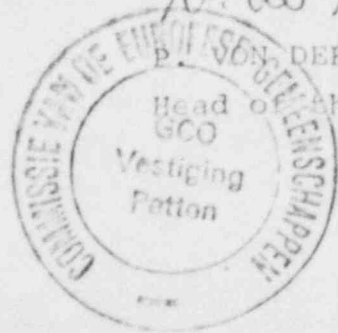
Date :

28th June 1982

Signature :

for P.J. VAN WESTEN
Director of the Petten Establishment,

P. van der Hart



100-10-1

CHECKLIST FOR USE IN REVIEW OF REQUESTS FOR
HIGHLY ENRICHED URANIUM FOR RESEARCH
TECHNICAL AND ECONOMIC DEVELOPMENT

Date 30th June 1982

1. Name of Facility: HIGH FLUX REACTOR
2. Quantity of Uranium Requested (Kgs): 30,075
3. Enrichment in the Isotope U-235 (%): 93.2%
the quoted 30,075 kgs refers to three shipments of spent
4. Sale or Toll Enriching: fuel to Idaho Falls (SRP 11 + 12 + 13)
5. Current Core Loading (Kgs of U-235): 11,022 Kgs
6. Current Power Level (MWth): 45
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 Federal Republic of Germany
9. Breakdown of Fuel Inventory (Kgs of U-235): as per 30th June 1982
 - a. Amount of U-235 in Fabrication outside USA Including Scrap
Allowances: 50,441 kgs stored at Manufacturer Plant
 - b. Amount of U-235 in Storage in Completed, Unirradiated Fuel Elements:
39,277 Kgs in HFR vault
 - c. Amount of U-235 in Core: 11,022 Kgs
 - d. Amount of U-235 in Spent Fuel Storage within the Community Including Chemical Reprocessing Plants, and the Reprocessing Schedule for Such Material:
 - d.1. in HFR pools (burn up) : 34,184 Kgs (86 - 75 %)
 - d.2. S.R.Eu shipped to Idaho Falls June 1982 : 7,790 Kgs (75%) to be reprocessed in 1982.
 - e. Amount of U-235 Lost and/or Consumed During Operation of Above Facility:
consumption : approx. 16 kg p.a.
losses : approx. 400 gms p.a.
 - f. Amount of U-235 per Fuel Element: approx. 405 gms/element
 - g. Average Core Life: 28 days
 - h. Average Lead Time for Conversion and Fuel Fabrication if Conversion and Fabrication is to be Done Abroad: 12-15 months

in addition to item 2. : Please notice that the Patten Establishment schedules to ship september - october 1982 a 8 kgs U₂₃₅ spent fuel badge to Idaho Falls (SRP 12) and by mid January 1983 an other badge of 8 kgs U₂₃₅ (SRP 13) for reprocessing purposes.

S/t