

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

Date 11th June 1979

1. Name of Facility: Hoger Onderwijs Reactor (HOR), Delft, The Netherlands
2. Quantity of Uranium Requested (Kgs): 3.0 kg
3. Enrichment in the Isotope U-235 (%): 93%
4. Sale or Toll Enriching: Sale
5. Current Core Loading (Kgs of U-235): 4.2 kg
6. Current Power Level (MWth): 2
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
Element Fabricator: CERCA, Paris, France
9. Breakdown of Fuel Inventory (Kgs of U-235):
 - a. Amount of U-235 in Fabrication outside USA Including Scrap Allowances: 3.8 kg
 - b. Amount of U-235 in Storage in Completed, Unirradiated Fuel Elements: 1.9 kg
 - c. Amount of U-235 in Core: 4.2 kg
 - d. Amount of U-235 in Spent Fuel Storage within the Community Including Chemical Reprocessing Plants, and the Reprocessing Schedule for Such Material: 1.9 kg in storage, of which 1.3 kg is to be reprocessed in 79-80
 - e. Amount of U-235 Lost and/or Consumed During Operation of Above Facility: 0.6 kg consumed during operation in 1 year, 2 MW
 - f. Amount of U-235 per Fuel Element: 190 g
 - g. Average Core Life: 4 years
 - h. Average Lead Time for Conversion and Fuel Fabrication if Conversion and Fabrication is to be Done Abroad: 21 months

582 176
790 8100 516

Briefkopf IRI - Delft

To whom it may concern

End Use Statement

The undersigned certify that the following material, i.e. 3.008 kgs of uranium (93.3 per cent U-235 enriched) in the form of UF₆ and containing 2.806 kgs of U-235 which will be furnished to us under a Fixed Commitment Contract with US-DOE will be used for the Hoger Onderwijs Reactor of the Interuniversitair Reactor Institut, Delft, 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 CERCA..... (bitte einsetzen)

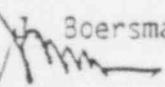
We authorize Transnuclear Inc., Falls Church, Va., to apply for the export license.

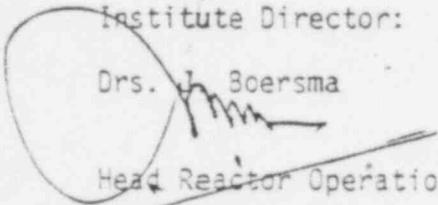
Signature IRI:

date:

Institute Director:

Delft, 11th June 1979

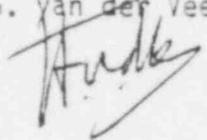
Drs.  Boersma


Head Reactor Operations:

F.M. de Meulemeester

In absence:

Deputy Head Reactor Operations:

S. van der Veen


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

1. APPLICANT'S USE		a. DATE OF APPLICATION 7/6/79		b. APPLICANT'S REFERENCE NUK 286 79-193/01		2. NRC USE		a. LICENSE NO. XSNM01539		b. DOCKET NO. 11000712	
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 d. TELEPHONE NUMBER (Area Code - Number - Extension) (703) 820-2450						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		8. PROPOSED LICENSE EXPIRATION DATE		9. U.S. DEPARTMENT OF ENERGY CONTRACT NO. (If Known)			
				To be determined		One year from date of issuance		none assigned to date			
10. ULTIMATE CONSIGNEE a. NAME Hoger Onderwijs Reactor b. STREET ADDRESS Interuniversitair Reactor Instituut c. CITY - STATE - COUNTRY Delft, The Netherlands						11. ULTIMATE END USE (Include plant or facility name) Will be used for the manufacture of fuel elements for the Hoger Onderwijs Reactor at Delft, The Netherlands 11a. EST. DATE OF FIRST USE					
12. INTERMEDIATE CONSIGNEE a. NAME Nukem, GmbH, D-645 Hanau, Fed. Rep. of Germany b. STREET ADDRESS CERCA, Romans, France c. CITY - STATE - COUNTRY						13. INTERMEDIATE END USE Nukem shall perform conversion of UF6 into U metal. CERCA shall manufacture fuel elements. 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, W. 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 a maximum of 93.3 percent.				3.008 Kg U		93.3%	2.806 Kg U235	Kgs	
22. COUNTRY OF ORIGIN - SOURCE MATERIAL				23. COUNTRY OF ORIGIN-SNM WHERE ENRICHED OR PRODUCED U.S.				24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known)			
25. ADDITIONAL INFORMATION (Use separate sheet if necessary)											
582 178											
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 Asst. Mgr. Wash. Oper. Transnuclear, Inc.			