application is correct to the best of his/her knowledge.

27 AUTHORIZED OFFICIAL a. SIGNATURE Vicki Matson

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY GAO B-180225(R0362)

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

1. APPLICANT'S . DATE OF APPLICAT	M) NO	K-375) BEFFERENCE	2. NRC USE -	XSNMO18	124	1/60	3489	Ĺij	
3. APPLICANT'S NAME AND ADDRESS RIS				ER'S NAME AND ADDRE			RIS		
• NAME Transnuclear, Inc.				U.S.D.O.E.					
one Skyline Place, 5205 Leesburg Pike				. NAME c/o Goodyear Atamic Corp.					
Falls Church STATE ZIP CODE VA 22041			b. STREET ADDRESS Route One						
TELEPHONE NUMBER (Area Code - Number - Extension)			c. CITY			STATE	ZIP CODE		
(703) 820-2450			Pike			OH	45661	N. 5.0.0	
SCHEDULED 6. FINAL SH SCHEDULED SCHEDUL		DELIVERY DATE	RACTUAL	8. PROPOSED LICENSE EXPIRATION DATE One Year from		NTRACT NO. (If Known)			
- The desired of the day		To be determin	ed	date of issuance	To be	assi	gned		
O. ULTIMATE CONSIGNEE		15	11. ULTI	MATE END USE		urk-			
Commission of the Europ	ean C	Communities (J.R.	c.) Wil	le plant or facility name) 1 be used for the ten, Netherlands				Use	
Petten Establishment, Post	bus 2	, 1755ZG	Sta	tement)					
c. City - STATE - COUNTRY Petten, The Netherlar	de		1						
			11a. EST. DATE OF FIRST USE						
2. INTERMEDIATE CONSIGNEE	1.	18	13. INTERMEDIATE END USE						
Nukem, GmbH			Conversion and fabrication of fuel elements (see attached End Use Statement)						
b. STREET ADDRESS D-6450 Hanau									
c. CITY - STATE - COUNTRY Federal Republic of	Germa	ny	12. EST	DATE OF FIRST USE					
14. INTERMEDIATE CONSIGNEE		is		RMEDIATE END USE				6. L	
* NAME Transnuklear, GmbH									
b. STREET ADDRESS 645 Hanau Wolfgang-bei-Hanau Industr	Postf	ach 110030,	Inter	mediate for trna	sport 1	purpos	es only		
e. CITY - STATE - COUNTRY Hessen, West Germany			15a. EST.	DATE OF FIRST USE					
		RIPTION		18. MAX. ELEMENT	19. MAX.	20. MA	×	21.	
NRC (Include chemical and physical USE nuclear equipment and compo		nuclear material; give dollar	value of	WEIGHT	WT. %	ISO	TOPE WT.	UN	
Uranium in the form		101	ride	18.045 Kg U	93.3	16.	836 KgU	Kg	
enriched to 93.30 g	ercer	or 11	111	1 20.050 Kg U	93.3	18.	70,7 KgU	Kg	
		AEULI JUN 0 1	1981 -	38.095	EIVED E. VED	35.5	543		
		CIT.	110	1000 111V	HEE WILLIA	HATTA	- L		
22. COUNTRY OF ORIGIN SOURCE MATERIAL		WHERE ENRICHED (CED 24. COUNTR	ARDS (If				
25. ADDITIONAL INFORMATION /Use sep	arate shee								
81 06 080 003	an is orer	pared in conformity with T	itle 10, Cod	e of Federal Regulations, an	d that all	nformatio	n in this		

b. TITLE





87/03/01

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. 18.045 kgs of uranium (93,3% U-235 enriched) in the form of UF₆ and containing 16.836 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, D6450 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, 27. 42 1981

For the Commission of the

European Communities

P.J. VAN WESTEN

(Director)

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

Date, 23rd April 1981

1.	Name	of Facility : High Flux Reactor
2.	Quan	tity of Uranium Requested (Kgs) : 18 kgs
3.	Enri	chment in the Isotope U-235 (%) : 93,3 %
4.		or Toll Enriching : (referring to our 9th and 10th shipment to
5.	Curr	ent Core Loading (Kgs of U-235) : 11,1 kgs SRP)
6.	Curr	ent Power Level (MWth) : 45
7.		icality and Full Operating Power Dates and Power Rating (if est involves new facility) :
8.	Name	of Convertor and Fabricator of Fuel : Nukem GmbH
	Hana	u, Federal REpublic of Germany
9.	Brea	kdown of Fuel Inventory (Kgs of U-235) : as per 15th April 1981
	a).	Amount of U-135 in Fabrication outside USA, Including Scrap (%):
		Allowances : 51,8 kg (Manufacturers plant)
	b).	Amount of U-235 in Storage in Completed, Unirradiated Fuel Elements: HFR Vault 23,2 kgs
	c).	Amount of U-235 in Core :
	d).	Amount of U-235 in Spent Fuel Storage within the Community Including Chemical Reprocessing Plants, and the Reprocessing Schedule for such Material:
		a) in HFR pools; 22kgs (86 -75%)
	e).	b) Savannah River plant (reprocessed): 29 kg (75%) c) to be reprocessed at Savanna Flant: 15 kg (75%) Amount of U-235 Lost and/or C as well During Operation of Above Facility: consumption from 16 kg / year 105585 a 10 mm/year in fabrication
	f).	Amount of U-235 per Fuel Leme approx. 405 gms/element plan
	g).	Average Core Life : 28 days
	h).	Average Lead Time for Conversion and Fuel Fabrication if Conversion and Fabrication is to be Done Abroad:
		Average 12 - 15 months







Postbus 2, 1755 Petten, The Netherlands Tel. (022-1) 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 Transnuclea: Inc., Fall Church, Va., to apply for the export license.

For the Commission of the ...

European Communities

P.J. VAN WESTEN

(DIRECTOR)

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

Date, 23rd April 1981

1.	Name of Facility : HIGH FLUX REACTOR	
2.	Quantity of Uranium Requested (Kgs) : 20 kgs	_
3.	Enrichment in the Isotope U-235 (%): 93,3 %	_
4.	Sale or Toll Enriching : (fresh supply for 1981)	_
5.	Current Core Loading (Kgs of U-235) : 11,1 kgs	_
6.	Current Power Level (MWth) : 45	_
7.	Criticality and Full Operating Power Dates and Power Rating (if request involves new facility) :	ak't
8.	Name of Convertor and Fabricator of Fuel: Nukem GmbH	_
	Hanau, Federal Republic of Germany	
9.	Breakdown of Fuel Inventory (Kgs of U-235) : as per 15th April 198	11
	a). Amount of U-235 in Fabrication outside USA, Including Scrap (%):	
	Allowances : 51,8 kgs (maufacturers plant)	_
	b). Amount of U-235 in Storage in Completed, Unirradiated Fuel Elements : HFR Vault 23,2 kgs	
	c). Amount of U-235 in Core : 11.1 kgs	-
	d). Amount of U-235 in Spent Fuel Storage within the Community Including Chemical Reprocessing Plants, and the Reprocessing Schedule for such Material:	
	a)in HFR pools : 22 kgs (86- 75%)	Ī
	b) Savannah River plant (reprocessed): 29 kg (75%) c) to be reprocessed at Savannah River plant: 15 kg (75%) e). Amount of U-235 Lost and/or Consumed During Operation of Above Facility: consumption: approx. 16 kg 7 year	
	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:	
	Average 12 - 15 months	