

APPLICATION FOR LICENSE TO EXPORT  
BYPRODUCT, SOURCE, OR SPECIAL NUCLEAR MATERIAL

X SNM 01389  
11000250

Submit in Triplicate

Carefully Read Instructions on Back

1. DATE OF APPLICATION October 13, 1978	2. APPLICANT'S REFERENCE NO. <i>(if any)</i> NUK 247 UES/HU/78-300/01	3. COUNTRY OF ULTIMATE DESTINATION W. Germany
4. NAME OF APPLICANT Transnuclear, Inc. STREET ADDRESS 5205 Leesburg Pike CITY, STATE, AND ZIP CODE Falls Church, VA 22041		5. ULTIMATE CONSIGNEE IN FOREIGN COUNTRY <i>(Name and address)</i> Kernforschungszentrum Karlsruhe Gesellschaft mit beschränkter Haftung Postfach 3640, 7500 Karlsruhe 1 W. Germany
6. INTERMEDIATE CONSIGNEE IN FOREIGN COUNTRY <i>(Give name and address. If same as ultimate consignee, state "Same.")</i> Nukem GmbH Hanau, W. Germany		7. IF PURCHASER IN FOREIGN COUNTRY IS OTHER THAN ULTIMATE CONSIGNEE, GIVE NAME AND ADDRESS. <i>(If same, state "Same.")</i> Other Intermediate Consignee Transnuclear, GmbH 645 Hanau, Postfach 110030 Wolfgang-bei-Industriegelände, Hessen, W. Germany
8. (a) QUANTITY TO BE SHIPPED <i>(See instructions on back)</i> 802.0 Kg U 484.408 Kg U235	(b) COMMODITY DESCRIPTION <i>(Include chemical and physical form; for special nuclear material and byproduct material also specify isotopic content; if in a device, identify the device, manufacturer, and model number.)</i> Uranium in the form of uranium hexafluoride enriched to a maximum 60.4 percent U235. This material will be supplied and packaged by Goodyear Atomic, Piketon, Ohio. Shipment to take place after issuance of license.	

(c) SHIPPING AND PACKING PROCEDURES *(Required for special nuclear material. See instructions on back.)*

I.A.E.A. Certificate of Competent Authority 4909 in accordance with 10 CFR Part 71.

9. END USE OF COMMODITIES COVERED BY THIS APPLICATION: *(Describe fully, stating what will be produced or manufactured, what service will be rendered, or the nature of the research that will be performed.) (See instructions on back for special nuclear material.)*  
Will be used for the manufacturing of fuel elements for the KNK-II Reactor (second reload) (Kompakte Natriumgekühlte Kernanlage II) at Karkruhe, Federal Republic of Germany. See attached End Use Statement.

10. The applicant, and any official executing this certificate on behalf of the applicant named in Item 4, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Parts 30 and 36 (if for byproduct material) or Part 40 (if for source material), or Part 70 (if for special nuclear material), and Part 71 (for transport of radioactive material, if applicable) and that all information contained herein, including any supplements attached hereto, is true and correct to the best of their knowledge and belief.

This material is privately owned.  
Please issue license for a period of one  
year from date of issuance.

Transnuclear, Inc.

*(Applicant named in Item 4)*

By: Vicki Matson

Traffic Coordinator

*(Title of certifying official authorized to act on behalf of the applicant)*

EXPORT/IMPORT  
AND  
INTERNATIONAL  
STORAGE

7810270369

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Warning: 18 U.S.C. Section 1001; Act of June 25, 1948: 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction

To whom it may concern:

End Use Statement

The undersigners certify that the quantity of

a) 802.0 kgs of uranium (60.40 per cent u-235 enriched)  
and containing 484.408 kgs of u-235 and

which will be furnished to us under a fixed-commitment-  
contract with US-DOE, shall be used by us for the  
manufacturing of fuel elements for the KNK II-Reactor  
(second reload) (Kompakte Natriumgekühlte Kernanlage II,  
at Karlsruhe, Federal Republic of Germany).

NUKEM GmbH, Hanau, shall perform the conversion work for us.

We authorise Transnuclear Inc., Falls Church, Virginia, USA,  
to apply for the US-export-license.

Date: 2. Oktober 1978

Signature: .....

(ppa Dr. Tebbert) (i.V. Dr. Marth)

Kernforschungszentrum Karlsruhe  
Gesellschaft mit beschränkter Haftung  
Postfach 3640, 7500 Karlsruhe 1

RECEIVED  
OCT 11 1978

# TRANSNUCLEAR, INC.



October 13, 1978

Mr. N. Moore  
Nuclear Regulatory Commission  
Office of International Programs  
7735 Old Georgetown Road  
Bethesda, Maryland 20014

Re: Export License Application for 65.163 Kg U - 78-301/01 (NUK-248)  
Export License Application for 802.0 Kg U - 78-300/01 (NUK-247)  
Export License Application for 113.182 Kg U - 78-301/01 (NUK-249)

Dear Mr. Moore:

Enclosed is an application for Export License, in triplicate,  
for your handling on the following material:

65.163 Kg U containing 48.882 Kg U235  
enriched to a maximum of 90.4 percent U235

802.0 Kg U containing 484.408 Kg U235 enriched  
to a maximum 60.4 percent U235

113.182 Kg U containing 105.599 Kg U235 enriched  
to a maximum 93.3 percent U235

Thanking you in advance for your help and cooperation.

Sincerely,

Vicki Matson  
Traffic Coordinator

VM/ak

Enclosures: Three original End Use Statements  
Three Export License Applications