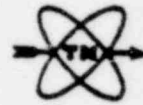


TRANSNUCLEAR, INC.



February 29, 1980

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

Re: Export License Application - TN Ref: 80-033/01 (NUK-317)

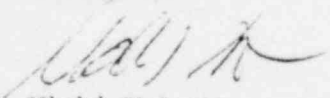
Dear Mr. Moore:

Attached please find an Export License Application for your handling on the following:

14.3 Kg U, containing 13.342 Kg U235
enriched to 93.30 percent U235.

Thanking you in advance for your help and cooperation.

Sincerely,


Vicki Matson
Assistant Manager
Washington Operations

Enclosure: Original E.U.S.
Reaktor Checklist

VM/ma

RECEIVED
U.S. NRC

1980 MAR 5 PM 1 40

EXHIBIT
100-270000

ONE SKYLINE PLACE • 5205 LEESBURG PIKE • FALLS CHURCH, VIRGINIA 22041
TELEPHONE: 703-820-2450 • CABLE: TRANSNUC FGCH • TELEX: 88-9463

8003280317

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

Date Julich, 12.02.80

1. Name of Facility: Reactor FRJ-1 (MERLIN) Kernforschungsanlage Julich GmbH
2. Quantity of Uranium Requested (Kgs): 11,3 kg
3. Enrichment in the Isotope U-235 (%): 93,3 %
4. Sale or Toll Enriching: _____
5. Current Core Loading (Kgs of U-235): 6,3 kg
6. Current Power Level (MWth): 10 MW
7. Criticality and Full Operating Power Dates and Power Rating (if request involves new facility): _____
8. Name of Converter and Fabricator of Fuel: US DOE
9. Breakdown of Fuel Inventory (Kgs of U-235):
- a. Amount of U-235 in Fabrication outside USA including Scrap: Fa. NUKEM GmbH, Hanau
Allowances: 15,3 kg (80 % enr.); 4,4 kg (45 % enr.)
AG/1467 AG/1465
- b. Amount of U-235 in Storage in Completed, Unirradiated Fuel Elements:
5,96 kg
- c. Amount of U-235 in Core: 6,2 kg
- d. Amount of U-235 in Spent Fuel Storage within the Community including Chemical Reprocessing Plants, and the Reprocessing Schedule for Such Material:
KFA Spent Fuel Storage: ca. 7,9 kg; Reprocessing Campaign 1980 at Savannah River Plant (US DOE)
- e. Amount of U-235 Lost and/or Consumed During Operation of Above Facility:
Burn-up of the elements in KFA Spent Fuel Storage: ca. 4,9 kg
Burn-up of the elements in Reactor core: ca. 1,7 kg
- f. Amount of U-235 per Fuel Element: 264 g and 192 g
- g. Average Core Life: ca. 245 d (Element life at full power)
- h. Average Lead Time for Conversion and Fuel Fabrication if Conversion and Fabrication is to be Done Abroad:
2 years

POOR ORIGINAL

Kernforschungsanlage Julich
Gesellschaft mit beschränkter Haftung

Heinrich K. K. K.