Pursuant to the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974 and the regulations of the U.S. Nuclear Regulatory Commission (NRC) issued pursuant thereto, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued to the licensee authorizing the export of the materials and/or production or utilization facilities listed below, subject to the terms and conditions herein.

**LICENSEE**

U.S. Department of Energy (DOE)
National Nuclear Security Administration (NNSA)
Y-12 National Security Complex
301 Bear Creek Road
Oak Ridge, TN 37831

Attn: Becky G. Eddy

**ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)**

Institute for Radioelements (IRE)
Avenue de l'Esperance 1
B-6220 Fleurus
Belgium

(for medical isotope production)

**INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)**

See pages 3 and 4

**OTHER U.S. PARTY(IES) TO EXPORT**

See page 3

**APPLICANT'S REFERENCE NO.:** IRE-EU19

**ULTIMATE DESTINATION(S):** Belgium

**QUANTITY(IES):** 3.304 kilograms

**DESCRIPTION OF MATERIAL(S) OR FACILITY(IES):**

Uranium, enriched to 93.2 WGT % maximum, containing 3.07 kilograms of uranium-235, in the form of unalloyed broken metal.

Conditions 3, 4, 6, and 7 on page 2 of this license apply to this export.

Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974.

This license is subject to the right of recapture or control by Section 108 of the Atomic Energy Act of 1954, as amended, and to all of the other provisions of said Acts, now or hereafter in effect and to all valid rules and regulations of the NRC.

**SIGNATURE:**

David L. Skeen, Deputy Director
Office of International Programs

**DATE OF ISSUANCE:** Oct 12 2018
Conditions

Condition 1: Reserved
Condition 2: Reserved
Condition 3: This license covers only the nuclear content of the material.
Condition 4: The material to be exported under this license shall be shipped in accordance with the physical protection requirements for special nuclear material in 10 CFR Part 71 and 10 CFR Part 73.
Condition 5: Reserved
Condition 6: This license authorizes export only and does not authorize the receipt, physical possession, or use of the nuclear material.
Condition 7: The shipper shall complete and submit a DOE/NRC Form 741 for each shipment of uranium, thorium, and plutonium (i.e., source or special nuclear material) exported under this license.
Condition 8: Reserved
OTHER U.S. PARTY(IES) TO EXPORT:

1. Consolidated Nuclear Security (CNS) L.L.C.
   301 Bear Creek Road
   Oak Ridge, TN 37831
   (DOE/NNSA supplier/transport contractor)

2. TN Americas LLC
   7135 Minstrel Way Suite 300
   Columbia, MD 21045
   (transporter)

INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES):

1. Framatome
   54 Avenue De La Déportation
   ZI Les Bérauds
   26104 Romans Sur Isère
   France
   (target fabrication)

2. TN International
   1, rue des Herons
   78180 Montigny-le-Bretonneux
   France
   (transporter)

3. Studiecentrum Voor Kernenergie (SCK-CEN)
   BR-2 Research Reactor
   Soeretang 200
   BE-2400 Mol
   Belgium
   (target irradiation)
4. Nuclear Research and Consultancy Group (NRG)  
   HFR Research Reactor  
   Westerduinweg 3  
   1755 LE Petten  
   The Netherlands  
   (target irradiation)

5. Nuclear Research Institute, Rez, plc  
   LVR-15 Research Reactor  
   Husinec - Rez 130  
   Cz-250 98 Rez  
   Czech Republic  
   (target irradiation)

6. National Center for Nuclear Research  
   Maria Research Reactor  
   Andrzejsoltan 7  
   05-400 Otwock-Swierk  
   Poland  
   (target irradiation)