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.

<table>
<thead>
<tr>
<th>LICENSEE</th>
<th>ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</th>
</tr>
</thead>
</table>
| U. S. Department of Energy (DOE)  
National Nuclear Security Administration (NNSA)  
Y-12 National Security Complex  
301 Bear Creek Road  
Oak Ridge, TN 37831 | Institute for Radioelements (IRE)  
Avenue de l'Esperance 1  
B-6220 Fleurus  
Belgium | (for medical isotope production) |

Attn: Becky G. Eddy

<table>
<thead>
<tr>
<th>INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</th>
<th>OTHER U.S. PARTY(IES) TO EXPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>See pages 3 and 4</td>
<td>See page 3</td>
</tr>
</tbody>
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<tr>
<th>APPLICANT'S REFERENCE NO.: IRE-EU17</th>
<th>ULTIMATE DESTINATION(S): Belgium</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>QUANTITY(IES)</th>
<th>DESCRIPTION OF MATERIAL(S) OR FACILITY(IES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.45 kilograms</td>
<td>Uranium, enriched to 93.35 WGT % maximum, containing 1.35 kilograms of uranium-235, in the form of unalloyed broken metal.</td>
</tr>
</tbody>
</table>

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.

THIS LICENSE IS INVALID UNLESS SIGNED BELOW BY AUTHORIZED NRC REPRESENTATIVE

SIGNATURE:  
NAME AND TITLE: David L. Skeen, Deputy Director  
Office of International Programs  
DATE OF ISSUANCE: March 20, 2018
U.S. NUCLEAR REGULATORY COMMISSION
EXPORT LICENSE

LICENSE NUMBER: XSNM3788
Page 2 of 4

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. DOE/NNSA  
   Y-12 National Security Complex  
   301 Bear Creek Road  
   Oak Ridge, TN 37831  
   (supplier/transporter)

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

3. 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 fabricator)

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

3. Studiecentrum Voor Kernenergie (SCK-CEN)  
   BR-2 Research Reactor  
   Boeretang 200  
   BE-2400 Mol  
   Belgium  
   (target irradiation)
INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES): (Cont’d)

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 68 Rez
Czech Republic
(target irradiation)

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