### PART A. FOR NRC USE ONLY

- **LICENSE NUMBER**: XSNM3788
- **DOCKET NUMBER**: IDO-0233
- **ADAMS ACCESSION NUMBER**: 11000233
- **DATE RECEIVED**: DEC 12 2017

### PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS

1. **NAME AND ADDRESS OF APPLICANT/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

   - **NAME OF APPLICANT'S CONTACT**: Becky G. Eddy
   - **APPLICANT'S REFERENCE NUMBER**: IRE-EU17
   - **PHONE NUMBER**: (865) 576-4119
   - **FAX NUMBER**: (865) 574-0492
   - **E-MAIL ADDRESS**: Becky.Eddy@npo.doe.gov

2. **TYPE OF ACTION REQUESTED** (Check One)
   - [ ] EXPORT (Parts B, C, E)
   - [X] IMPORT (Parts B, D, E)
   - [ ] AMENDMENT/RENEWAL
     - Current License Number: [ ]

3. **CONSENT REQUEST** (Parts B, C)
   - Current License Number: [ ]

4. **CONTRACT NUMBER(S)**
   - NNSA-SC16-Y12-0707

5. **FIRST SHIPMENT DATE**
   - 3/16/2018

6. **LAST SHIPMENT DATE**
   - 11/30/2018

7. **PROPOSED EXPIRATION DATE**
   - 12/31/2018

### PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, OR RENEWALS

7a. **FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED**
   - Supplier/Transporter

8a. **INTERMEDIATE USE(S)**
   - Target Fabrication

9a. **ULTIMATE END USE(S)**
   - Medical Isotope Production

8. **NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT**
   - DOE NNSA
   - Y-12 National Security Complex
   - 301 Bear Creek Road
   - Oak Ridge, TN 37831

   - AREVA NP Romans
   - 54 Avenue De La Déportation
   - ZI Les Bérauds
   - 26104 Romans Sur Isère, France

9. **NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)**
   - Institute for Radioelements (IRE)
   - Avenue de l'Espérance 1
   - B-6220 Fleurus, Belgium

10. **DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT**
   - 1.35 kg uranium-235 contained in maximum of 1.45 kg uranium, enriched to maximum of 93.35%, in the form of unalloyed broken metal

10a. **MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)**
   - 1.45 KG

10b. **MAX ENRICHMENT OR WGT %**
   - 93.35%

10c. **MAX ISOTOPE WGT (KG)**
   - 1.35 KG

### APPROVED FOR PUBLIC RELEASE

This document has been approved for release to the public by:

Scott A. Hanks

[Signature]

Date: 11/30/17
**APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)**

<table>
<thead>
<tr>
<th>License Number</th>
<th>Docket Number</th>
<th>ADAMS Accession Number</th>
<th>PUBLIC OR NON-PUBLIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>X5NM3788</td>
<td>110010283</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PART D.** TO BE COMPLETED FOR IMPORT LICENSES, AMENDMENTS, OR RENEWALS

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

<table>
<thead>
<tr>
<th>12. Name(s) / Address(es) of Foreign Suppliers AND/OR Other Parties to Import</th>
<th>13. Name(s) / Address(es) of Intermediate Consignee(s)</th>
<th>14. Name(s) / Address(es) of Ultimate U.S. Consignee(s)</th>
</tr>
</thead>
</table>

**12a. NRC Export License Number(s)**

(If applicable)

<table>
<thead>
<tr>
<th>13a. License Number(s) / Expiration Date(s)</th>
<th>14a. License Number(s) / Expiration Date(s)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>13b. Intermediate Use(s)</th>
<th>14b. Ultimate End Use(s)</th>
<th>15a. Max Total Volume / Element WGT (KG), or Total Activity (TBq)</th>
<th>15b. Max Enrichment or WGT %</th>
<th>15c. Max Isotope WGT (KG)</th>
</tr>
</thead>
</table>

**16. Description of Radioactive Materials, Sealed Sources, Nuclear Facilities**

**16. Foreign Obligations (By Country and By Percentage of Maximum Total Volume)**

**PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR CONSENT REQUEST(S)**

<table>
<thead>
<tr>
<th>17. Additional Information Provided on Pages 3, 4, AND/OR ON SEPARATE SHEETS?</th>
<th>17a. Copies of Recipients' Authorizations Provided?</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>NO</td>
</tr>
</tbody>
</table>

**18. Certification:**

I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information provided is correct to the best of my knowledge.

18a. Print Name and Title of Authorized Official

Becky G. Eddy

DOE NNSA Production Office, Program Manager

18b. Signature - Authorized Official

[Signature]

18c. Date

11/30/2017

NRC Form 7 (02-2016)
APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)

Part B. Blocks 4 and 5:

Dates do not reflect actual ship dates. Time-frame indicated for shipment to support target fabrication, target irradiation and processing schedules to meet one year isotope production demand until conversion to LEU targets.

Part C: Blocks 7 and 7a, Suppliers and/or Other Parties to the Export:

Consolidated Nuclear Security (CNS) L.L.C.
301 Bear Creek Road
Oak Ridge, TN 37831
(DOE/NNSA Supply and Transport Contractor)

TN Americas LLC
7135 Minstrel Way Suite 300
Columbia, MD 21045
(Transporter)

Part C: Blocks 8 and 8a, Intermediate Foreign Consignee(s):

AREVA TN International
1, rue des Hérons
78180 Montigny-le-Bretonneux
France
(Transporter)

Studiecentrum Voor Kernenergie (SCK-CEN)
Boeretang 200
BE-2400 Mol
Belgium
BR-2 Research Reactor (Target Irradiation)

Nuclear Research and Consultancy Group (NRG)
Westerduinweg 3
1755 LE Petten
The Netherlands
HFR Research Reactor (Target Irradiation)

Nuclear Research Institute, Rez, plc
Husinec - Řež 130
Cz- 250 68 Řež
Czech Republic
LVR-15 Research Reactor (Target Irradiation)

National Center for Nuclear Research
Andrzej Soltan 7
05-400 Otwock-Świerk
Poland
Maria Research Reactor (Target Irradiation)