APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (See Instructions on Pages 4 and 5)

PART A. FOR NRC USE ONLY

☑ PUBLIC OR □ NON-PUBLIC

DATE RECEIVED

7/30/2016

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

1. NAME AND ADDRESS OF APPLICANT/LICENSEE

Thermo Fisher Scientific
10010 Mesa Rim Road
San Diego CA 92121

2. TYPE OF ACTION REQUESTED (Check One)

☑ EXPORT (Parts C, G, E)

3. CONTRACT NUMBER(S)

Y10-00050-012, 2014005983

4. FIRST SHIPMENT DATE

7/30/2016

5. LAST SHIPMENT DATE

12/31/2019

6. PROPOSED EXPIRATION DATE

12/31/2020

7. NAME(S) / ADDRESS(S) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT

8. NAME(S) / ADDRESS(S) OF INTERMEDIATE FOREIGN CONSIGNEE(S)

9. NAME(S) / ADDRESS(S) OF ULTIMATE FOREIGN CONSIGNEE(S)

Korea Hydro and Nuclear Power Corporation
167 Samsung-Dong Kangnam-Gu
Seoul 135-791 Korea
for use at Hanul 1-2, Hanbit 1-2
and Shin Hanul 1-2

10. FUNCTION(S) (IF APPLICABLE) PROVIDED

11. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALABLE SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS, FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT

Fifty four (54) fission chambers each containing between 3.9 to 8.0 grams of enriched Uranium used in neutron flux monitoring systems at six reactors. Each fission chamber has a value of approximately $0.03 KG.

12a. MAX TOTAL VOLUME / ELEMENT WGT (KG) OR TOTAL ACTIVITY (TBq)

0.312 KG of Enriched Uranium

12b. MAX ENRICHMENT OR WGT %

94%

12c. MAX ISOTOPE WGT (KG)

0.293 KG of U-235

13. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

None -- United States -- 100%

NRC FORM 7 (02/2016)
<table>
<thead>
<tr>
<th>Part D. To be completed for import licenses, amendments, or renewals</th>
</tr>
</thead>
<tbody>
<tr>
<td>12. Names / Addresses of foreign suppliers and/or other parties to import</td>
</tr>
<tr>
<td>13. Name(s) / Address(es) of intermediate consignee(s)</td>
</tr>
<tr>
<td>14. Name(s) / Address(es) of ultimate U.S. consignee(s)</td>
</tr>
<tr>
<td>12a. NRC export license number(s) (if applicable)</td>
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<tr>
<td>13a. License number(s) / Expiration date(s)</td>
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<td>14a. License number(s) / Expiration date(s)</td>
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<td>13b. Intermediate use(s)</td>
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<td>14b. Ultimate end use(s)</td>
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<tr>
<th>Part E. To be completed for all licenses, amendments, renewals or consent request(s)</th>
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<tr>
<td>17. Additional information provided on pages 3, 4, and/or on separate sheets?</td>
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<tr>
<td>17a. Copies of recipients' authorizations provided?</td>
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<tr>
<th>18. Certification:</th>
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<tbody>
<tr>
<td>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.</td>
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</table>

| 18a. Print name and title of authorized official |
| Robert Barnes |
| Technical Services Manager |

| 18b. Signature - authorized official |
| [Signature] |

| 18c. Date |
| June 22, 2016 |
**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>AGRIC ACCESSION NUMBER</th>
<th>PUBLIC OR NON-PUBLIC</th>
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<tr>
<td>XSNM3775</td>
<td>11004240</td>
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**ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)**

- Contract Numbers: U09-0846-012 for Hanul 2 (4 dual fission chambers in four PR detectors) (64 grams U)
- U09-0848-012 for Hanul 2 (4 fission chambers in two WR detectors) (16 grams U)
- Y16-0050-012 for Hanbit 1 and 2 (8 dual fission chambers in eight PR detectors) (128 grams U)
- 2014005993 for Shin-Hanul 1 and 2 (24 fission chambers in eight PR/WR detector) (96 grams U)
- U15909701 for Hanul 1 or 2 (1 dual fission chamber in one spare PR detector) (8 grams U)

Note that the original Export License for U09-0846-012 and Y10-0030-012 was XSNM3701 which has expired.