

EXPORT LICENSE



United States of America
 Nuclear Regulatory Commission
 Washington, D.C. 20555

NRC LICENSE NO.: XSNM3805

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NRC DOCKET NO.: 11006336

LICENSE EXPIRES: June 20, 2021

Pursuant to the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974 and the regulations of the Nuclear Regulatory Commission (NRC) issued pursuant thereto, and in reliance on the statements and representations herefore 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.

<p align="center">LICENSEE</p> <p>Thermo Fisher Scientific 10010 Mesa Rim Road San Diego, CA 92121</p> <p>Attn: Robert Barnes</p>	<p align="center">ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</p> <p align="center">See following page(s)</p>
<p align="center">INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</p> <p align="center">None</p>	<p align="center">OTHER U.S. PARTY(IES) TO EXPORT</p> <p align="center">None</p>

APPLICANT'S REFERENCE: 100429, 100790

ULTIMATE DESTINATION: United Arab Emirates

<p align="center">QUANTITY(IES)</p> <p align="center">48 grams</p>	<p align="center">DESCRIPTION OF MATERIAL(S) OR FACILITY(IES)</p> <p>Uranium containing up to 44 grams of uranium-235, enriched to 94 WGT % maximum.</p> <p>The uranium will be contained in 12 fission chambers, each fission chamber may (or can) contain up to 3.9 grams of enriched uranium. The fission chambers will be packaged into four triple fission chamber detector assemblies.</p> <p>Conditions 3, 4, 6, and 7 on Page 2 of this license apply to this export.</p>
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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 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: July 18, 2019

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

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

1. Barakah Nuclear Power Plants
Emirates Nuclear Energy Corporation
near Ruwais
Abu Dhabi Emirate, Western Region
United Arab Emirates

(neutron flux monitoring at the Barakah Nuclear Power Plant, Units 1-4)

2. Emirates Nuclear Energy Corporation
Irena Building Headquarters
PO Box 112010
Masdar City, Abu Dhabi
United Arab Emirates

(neutron flux monitoring at the Barakah Nuclear Power Plant, Units 1-4)