

# EXPORT LICENSE

NRC FORM 250

**NRC LICENSE NO.:** XSOU8867/01

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**NRC DOCKET NO.:** 11006609

**LICENSE EXPIRES:** December 31, 2027



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

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 hereof 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 style="text-align: center;"><b>LICENSEE</b></p> <p>Materion Advanced Materials 407 N. 13th Street Milwaukee, WI 53233</p> <p>Attn: Andrea Boris</p>	<p style="text-align: center;"><b>ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</b></p> <p>Copenhagen Atomics A/S Oliefabriksvej 77 DK-2770 Kastrup Denmark</p> <p>(Thorium Fluoride salts for research and development of molten salt reactors)</p>
<p style="text-align: center;"><b>INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</b></p> <p style="text-align: center;">None</p>	<p style="text-align: center;"><b>OTHER U.S. PARTY(IES) TO EXPORT</b></p> <p>Materion Advanced Chemicals 407 N. 13th Street Milwaukee, WI 53233</p> <p>(material supplier)</p>
<p><b>APPLICANT'S REFERENCE:</b> 769709</p>	<p><b>ULTIMATE DESTINATION:</b> Denmark</p>
<p style="text-align: center;"><b>QUANTITY(IES)</b></p> <p>2,400 kilograms (kgs)</p>	<p style="text-align: center;"><b>DESCRIPTION OF MATERIAL(S) OR FACILITY(IES)</b></p> <p>This license amendment replaces XSOU8867 by extending the expiration date from December 31, 2025 to December 31, 2027.</p> <p>Thorium Fluoride (ThF4) to Copenhagen Atomics, Denmark.</p> <p>Thorium nitrate (Th(NO3)4) is supplied by Copenhagen Atomics to Materion Advanced Materials for fluorination and shipped back to Copenhagen Atomics as thorium fluoride. Materion Advanced Chemicals performs fluorination. Materion Advanced Materials will supply 400 kgs of ThF4 powder from its supply of Th(NO3)4 and will then supply 2,000 kg of ThF4 powder made from Copenhagen Atomics supply of Th(NO3)4.</p> <p>The total export of ThF4 from Materion Advanced Materials to Copenhagen Atomics, Denmark will be 2,400 kgs.</p> <p><b>CONDITIONS</b> on page 2 of this export License apply.</p>
<p>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.</p> <p>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 U.S. Nuclear Regulatory Commission.</p>	<p style="text-align: center;"><b>THIS LICENSE IS INVALID UNLESS SIGNED BELOW BY AUTHORIZED NRC REPRESENTATIVE</b></p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 40%;"> <p><b>SIGNATURE:</b></p> <p><b>NAME AND TITLE:</b></p> <p><b>DATE OF ISSUANCE:</b></p> </div> <div style="width: 55%;"> <p style="text-align: center;">ANDREA FERKILE</p> <div style="font-size: small; text-align: right; margin-top: -10px;">             Digitally signed by ANDREA FERKILE              Date: 2026.01.25 18:49:46 -05'00' </div> <p style="text-align: center;">Andrea Ferkile, Acting Deputy Director Office of International Programs</p> <p style="text-align: center;">Janury 25, 2026</p> </div> </div>

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**Conditions**

- Condition 1**      This license covers only the nuclear content of the material.
- Condition 2**      This license authorizes export only and does not authorize the receipt, physical possession, or use of the nuclear material.
- Condition 3**      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.