



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

July 18, 2024

James Warden, Director
Office of Nuclear Energy,
Safety & Security, Room 3320 HST
Bureau of International Security
& Nonproliferation
U.S. Department of State
2201 C Street, NW
Washington, D.C. 20520

Dear Mr. Warden:

Enclosed is an application, XSOU8867, received by the US. Nuclear Regulatory Commission on April 25, 2024, from Materion Advanced Materials, for the export of 400 kilograms (kgs) of thorium fluoride (ThF₄) powder from Materion's supply of Th (NO₃)₄ and an additional 2,000 kgs of ThF₄ powder made from Copenhagen Atomics supply of Th (NO₃)₄, for a total of 2,400 kgs of ThF₄ to be exported to Denmark.

The thorium fluoride salts will be used for research and development of molten salt reactors. Per 110.41 (a)(7), molten salt reactors are considered advanced reactors which require Executive Branch review.

Before taking action on this request, we would appreciate your views, in accordance with established procedures and from the overall perspective of the Executive Branch, as to whether the requested export meets the applicable criteria in the Atomic Energy Act of 1954, as amended.

If you have any questions or need additional information, please contact licensing officer Gary Langlie at Gary.Langlie@nrc.gov and cc the licensing assistant, Charlese Smith at Charlese.Smith@nrc.gov.

Sincerely,

7/18/2024

X Peter J. Habighorst

Peter J. Habighorst

Signed by: PETER HABIGHORST

Peter J. Habighorst, Chief
Export Controls and Non-Proliferation Branch
Office of International Programs

cc w/enclosures:

J. Warden, DOS

P. Megahan, DOS

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A. Ferkile DOE/NNSA

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