

EXPORT LICENSE

NRC FORM 250



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

NRC LICENSE NO.: XW018/02

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NRC DOCKET NO.: 11005897

LICENSE EXPIRES: December 31, 2026

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.

Table with 2 columns: LICENSEE (EnergySolutions Services, Inc., Bear Creek Operations, 1560 Bear Creek Road, Oak Ridge, TN 37831-2530, Attn: Duane Quayle) and ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) (See Page 2). Second row: INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) (None) and OTHER U.S. PARTY(IES) TO EXPORT (EnergySolutions Services, Inc., Bear Creek Operations, 1560 Bear Creek Road, Oak Ridge, TN 37831-2530, (supplier)).

APPLICANT'S REFERENCE: Application Dated 04/07/2020; ULTIMATE DESTINATION: Germany

Table with 2 columns: QUANTITY(IES) (See page 2) and DESCRIPTION OF MATERIAL(S) OR FACILITY(IES) (Class A radioactive waste consisting of hearth ash from the incineration of dry active material from Germany. Once processed, it will be returned to the German supplier for ultimate disposal. These materials include those which cannot be incinerated, those that were processed for volume reduction, and quantity of radioactive waste authorized for export shall not exceed that which was imported. XW018/02, Amendment No. 2 continued on Page 2)

Table with 2 columns: License conditions (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.) and Signature block (THIS LICENSE IS INVALID UNLESS SIGNED BELOW BY AUTHORIZED NRC REPRESENTATIVE. SIGNATURE: Peter J. Habighorst, Acting Deputy Director Office of International Programs. DATE OF ISSUANCE: April 6, 2022)

DESCRIPTION OF MATERIAL(S) OR FACILITY(IES):

This license is amended to: 1) increase the cumulative radioactivity limits for the total quantities of radioactive material/waste; 2) increasing the weight of radioactive material/waste exported to Germany; 3) revise the route of shipments; 4) rescind specific authorization for disposal of imported material/waste in certain RCRC Subtitle D landfills in accordance with the conditional release conditions of our Bulk Waste Assay Program (BWAP) authorized in the EX Tennessee RMLs as Tennessee does not authorize this process for imported radioactive material/waste; and 5) extend the date of expiration from December 31, 2021 to December 31, 2026.

GERMANY EXPORT ACTIVITY LIMITS:

Total Quantity¹	Authorization to export a total maximum quantity of 206.164 TBq, and 350 grams of SNM based on the maximum activity authorized for possession at Energy Solutions Inc., Bear Creek Operations as follows: H-3: 185 TBq, C-14: 18.5 Tbq, Ra-226: 0.74 TBq, Fe-55: 55.5 TBq, Th-232: 0.74 TBq, Po-210: 0.37 TBq, Uranium (natural or depleted): 7.4 TBq, Uranium (not U-233, U-235 or U-238): 0.074 TBq Atomic number 3 to 83 (excluding C-15 or Fe-55): 111 TBq, Atomic number 84 to 91 (total): 0.185, Transuranics (TRU): 0.185 TBq, Am-241: 0.37 TBq, and SNM, 235U equivalent: 350 grams. ²
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ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES):

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| <p>1. Eckert & Ziegler Nuclitec GmbH
Leese Facility
Ralfesen Agil Leese e G
Oehmer Feld
31633 Leese
Germany</p> <p>(storage and eventual disposal in accordance with German requirements)</p> | <p>2. Eckert & Ziegler Nuclitec GmbH
Braunschweig Facility
Gieselweg 1
3811 O Braunschweig
Germany</p> <p>(storage and eventual disposal in accordance with German requirements)</p> |
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ROUTE OF SHIPMENTS (10 CFR 110.32(f)(5))

The expected route of exports is by truck from Bear Creek Road to Tennessee route 95 or 58 and then primarily by interstate highways to one of the following ports:

- Portsmouth, Virginia
- Norfolk, Virginia
- Philadelphia, Pennsylvania
- Houston, Texas
- Baltimore, Maryland

¹ The permit activity limits are the cumulative total maximums over the term of the permit.

² Uranium 235 gram equivalent by weight of 350 grams (ESSI will not import enrichment level that exceed 20% by weight U-235)