

**EXPORT LICENSE**

NRC FORM 250



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

**NRC LICENSE NO.:** XW010/04

Page 1 of 2

**NRC DOCKET NO.:** 11005620

**LICENSE EXPIRES:** April 30, 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.

<p align="center"><b>LICENSEE</b></p> <p>EnergySolutions                  1560 Bear Creek Road                  Oak Ridge, TN 37831</p> <p>Attn: Duane Quayle</p>	<p align="center"><b>ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</b></p> <p>EnergySolutions Canada, Inc.,                  ES Walker Operations (ESWO)                  180 Walker Drive                  Brampton, Ontario L6T 4V8190                  Canada</p> <p>(storage and eventual disposal in accordance with Canadian requirements)</p>
<p align="center"><b>INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</b></p> <p align="center">None</p>	<p align="center"><b>OTHER U.S. PARTY(IES) TO EXPORT</b></p> <p align="center">See following page(s)</p>

**APPLICANT'S REFERENCE:** Application Dated 04/07/2020

**ULTIMATE DESTINATION:** Canada

<p align="center"><b>QUANTITY(IES)</b></p> <p align="center">See page 2</p>	<p align="center"><b>DESCRIPTION OF MATERIAL(S) OR FACILITY(IES)</b></p> <p>Radioactive waste consisting of source, special nuclear and byproduct materials in varying combinations as surface or volumetric contaminants of various materials, which were imported from Canada under NRC general license for recycle and beneficial reuse, and are to be returned to the Canadian generator for disposition. Materials imported to be returned include those which cannot be recycled for beneficial reuse, or do not conform to specification, or have been processed for volume reduction, or are wastes directly attributable to processing materials imported.</p> <p align="right"><b>XW010, Amendment No. 04 continued on Page 2</b></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:** David Skeen  
Digitally signed by David Skeen  
 Date: 2021.04.14 09:47:26 -04'00'

**NAME AND TITLE:** David L. Skeen, Deputy Director  
 Office of International Programs

**DATE OF ISSUANCE:** April 14, 2021

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

License is amended to: 1) renew the cumulative radioactivity limits for XW010 of the total quantities of radioactive material/waste; 2) adding to the export Permit the authorization to export primary heat transfer pumps back to Canada if they are deemed unrepairable and categorized as waste for disposal in Canada if not processed for metal melt recycle and; 3) extending the validity of the license from December 31, 2020 until April 30, 2026.

**DESCRIPTION OF MATERIALS (from 85 FRN 54597, September 2, 2020)**

Material Type .....	Mixed waste consisting of mixed hazardous and radioactive waste constituents, contaminated recyclable resource material/waste such as lead bricks or sheet as necessary.
Total Quantity <sup>1</sup> .....	Authorization to export a total maximum quantity of 380.064 TBq, based on the maximum activity authorized for possession at Energy Solutions Canada, Inc. ES Walker Operations as follows: H-3: 14.8 TBq, C-14: 7.4 TBq, Ra-226: 0.74 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): 0.07 TBq, Atomic number 3 to 83: 29.6 TBq, Atomic number 84 to 91 (total): 0.09, Transuranics (TRU): 0.09 TBq, Am-241: 9.3 TBq, Fe-55: 37 TBq, and Special Nuclear Material (SNM), 235U equivalent: 350 grams. <sup>2</sup>
End Use .....	Return of non-conforming waste and/or waste resulting from processing materials for appropriate disposition. The amendment requests: (1) Renewing the radioactive limits for XW010 of the total quantities of radioactive material/waste and weights exported to Canada; (2) adding authorization to export primary heat transfer pumps back to Canada if they are deemed unrepairable and categorized as waste for disposal in Canada if not processed for metal melt recycle; and (3) extending the license expiration date to December 31, 2026.
Country of Destination .....	Canada.

<sup>1</sup> The permit activity limits are the cumulative total maximums over the term of the permit.

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

**OTHER U.S. PARTY(IES) TO EXPORT:**

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|---|--|
| <p>1. EnergySolutions Services, Inc.<br/>Memphis Processing<br/>1790 Dock Street<br/>Memphis, TN 38113<br/>(supplier)</p> | <p>2. Erwin ResinSolutions, LLC<br/>151 T.C. Runnion Road<br/>Erwin, TN 37650<br/>(supplier)</p> |
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