


NRC FORM 7 (8-2011) 10 CFR 110		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027		EXPIRES: 08/31/2012	
APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (See Instructions on Pages 4 and 5)				Estimated burden per response to comply with this mandatory collection request: 2.4 hours. This submittal is reviewed to ensure that the applicable statutory, regulatory, and policy considerations are satisfied. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects.resource@nrc.gov , and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0027), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.			
PART A. FOR NRC USE ONLY		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC		DATE RECEIVED OCT 25 2012 JC			
LICENSE NUMBER XW020		DOCKET NUMBER 11006061		ADAMS ACCESSION NUMBER			
PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, OR RENEWALS, OR CONSENT REQUESTS (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)							
1. NAME AND ADDRESS OF APPLICANT/LICENSEE EnergySolutions 1560 Bear Creek Rd Oak Ridge, TN 37831			1a. NAME OF APPLICANT'S CONTACT Duane R. Quayle		1b. APPLICANT'S REFERENCE NUMBER ---N/A---		
			1c. PHONE NUMBER 865 220-1478		1d. FAX NUMBER 865 220-1668		
			1e. E-MAIL ADDRESS drquayle@energysolutions.com				
2. TYPE OF NRC LICENSE REQUESTED (Check One)							
<input checked="" type="checkbox"/> EXPORT (Parts B, C, E)		<input type="checkbox"/> IMPORT (Parts B, D, E)		<input type="checkbox"/> AMENDMENT/RENEWAL Current License Number: _____		<input type="checkbox"/> CONSENT REQUEST (Parts B, C) Current License Number: _____	
3. CONTRACT NUMBER(S) Not Applicable		4. FIRST SHIPMENT DATE January 1, 2013		5. LAST SHIPMENT DATE Prior to Expiration Date		6. PROPOSED EXPIRATION DATE December 31, 2013	
PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, RENEWALS OR CONSENTS (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)							
7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT EnergySolutions c/o Flowserve Corporation Memphis Facility 1790 Dock Street Memphis, TN, 38113			8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) N/A --- none ---		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) Ontario Power Generation Pickering NGS B 1675 Montgomery Park Road Pickering, ON, Canada L1V2R5 Contact: Diane Harvey 905-720-1300 x6627 Diane.harvey@opg.com		
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED Pump and impeller refurbishment at the Memphis Facility resulted in the generation of a small quantity of radioactively contaminated waste for return.			8a. INTERMEDIATE USE(S) -----none-----		9a. ULTIMATE END USE(S) Storage or disposal by the consignee as required or authorized by their regulator		
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Approximately 1178 pounds (68 cubic feet) of dry active waste generated from the refurbishment of a pump cover and impeller from Ontario Power Generation, Pickering NGS B, Pickering ON.				10a. MAX TOTAL VOLUME/ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) 534 kg 1.44e-4 TBq		10b. MAX ENRICHMENT OR WGT % N/A	10c. MAX ISOTOPE WGT (KG) Pu-239 SNM 2.095e-4 gm
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) N/A							

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(8-2011)
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U.S. NUCLEAR REGULATORY COMMISSION

**APPLICATION FOR NRC EXPORT OR IMPORT
LICENSE, AMENDMENT, OR RENEWAL, OR CONSENT REQUEST(S) (Continued)**

LICENSE NUMBER <i>XW020</i>	DOCKET NUMBER <i>11006061</i>	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	
PART D. TO BE COMPLETED FOR IMPORT LICENSES, AMENDMENTS, OR RENEWALS <small>(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)</small>				
12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14. NAME(S) / ADDRESS(ES) OF ULTIMATE CONSIGNEE(S)		
12a. NRC EXPORT LICENSE NUMBER(S) (if applicable)	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)		
	13b. INTERMEDIATE USE(S)	14b. INTERMEDIATE USE(S)		
15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES	15a. MAX TOTAL VOLUME/ ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	15b. MAX ENRICHMENT OR WGT %	15c. MAX ISOTOPE WGT (KG)	
	16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)			
PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, OR RENEWALS				
17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
18. CERTIFICATION: I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information provided is correct to the best of my knowledge.				
18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL Duane R. Quayle, Radiation Safety Officer	18b. SIGNATURE - AUTHORIZED OFFICIAL 		18c. DATE <i>10/24/12</i>	

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APPLICATION FOR NRC EXPORT OR IMPORT
LICENSE, AMENDMENT, RENEWAL OR CONSENT REQUEST(S) (Continued)

LICENSE NUMBER 8W020	DOCKET NUMBER 11006061	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Block 10: The isotopic breakdown of Appendix L isotopes is as follows:

Nuclide	Activity (TBq)	Activity (Ci)
Ce144	1.01e-6	2.72e-5
Co58	2.92e-7	7.88e-6
Co60	5.20e-6	1.40e-4
Cr51	1.64e-6	4.42e-5
Cs137	1.83e-7	4.93e-6
Fe59	1.41e-6	3.80e-5
Hf181	1.93e-7	5.21e-6
Mn54	1.05e-6	2.83e-5
Nb94	4.08e-6	1.10e-4
Nb95	7.82e-5	2.11e-3
Pu239	4.80e-7	1.30e-5
Ru103	2.56e-7	6.91e-6
Sb124	3.90e-6	1.05e-4
Sb125	2.42e-6	6.53e-5
Sn113	1.94e-6	5.24e-5
Zn65	1.93e-7	5.21e-6
Zr95	4.18e-5	1.13e-3
TOTALS	1.44e-4	3.90e-3

The Appendix P isotopes are as follows:

Co-60	5.20e-6 TBq
Cs-137	1.83e-7 TBq

Route of Transport:

The expected route is by truck primarily interstate highways from Memphis, TN to port of exit at Buffalo, NY.

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October 24, 2012

Mr. Mark Shaffer
Deputy Director - Office of International Programs
U.S. Nuclear Regulatory Commission
Mail Stop 4E21
Washington, DC 20555

Subject: NRC Form 7 Application to Export Radioactive Material

Dear Mr. Shaffer:

Duratek Services (a subsidiary of EnergySolutions) is submitting this application to export radioactive material from our Memphis, Tennessee facility to Canada.

The purpose of this application is to return the 1,178 pounds (approximately 68 cubic feet) of Class A radioactive dry activated waste generated during the refurbishment of one radioactive contaminated pump impeller and associated equipment which belongs to Ontario Power Generation's Pickering Station.

Also enclosed is a check for the application fee of \$2,700.00. As provided in 10CFR170.31 15. D., this application qualifies as an application where the NRC has previously authorized the export of the same form of waste to the same party located in the same country. An export permit was granted to Duratek Services July 29, 2010 (Permit XW017) for the return of similar waste to Ontario Power Generation's Pickering Station.

The Memphis facility is contracted by FlowServe Corporation to provide licensed support services for equipment refurbishing work performed by FlowServe Corporation. The equipment was imported from Canada under the general import license provisions of 10 CFR 110.27.

If you have any questions or need additional information, please do not hesitate to call me at 865-220-1478.

Sincerely,

A handwritten signature in black ink, appearing to read "Duane R. Quayle".

Duane R. Quayle, MS, RRPT
Radiation Safety Officer
EnergySolutions, Inc.

XW020

OCT 25 2012
JC

Attachment:

1) Form 7 Notification of Export

Cc: Nancy Mincey, Radioactive Shipping Broker