

NRC FORM 7 (8-2007) 10 CFR 110 U.S. NUCLEAR REGULATORY COMMISSION <b>APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL</b> (See Instructions on Page 5)		APPROVED BY OMB: NO. 3150-0027 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 Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@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.		EXPIRES: 06/30/2009
<b>PART A. FOR NRC USE ONLY</b>		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	DATE RECEIVED <b>7-8-08</b>	
LICENSE NUMBER <b>XW014</b>		DOCKET NUMBER <b>11005756</b>		ADAMS ACCESSION NUMBER
<b>PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, OR RENEWALS</b> (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 Duratek Services, Inc Memphis Facility 1790 Dock Street Memphis, TN 38113 Office Number: (901) 947-7832.		1a. NAME OF APPLICANT'S CONTACT Tye Rogers		1b. APPLICANT'S REFERENCE NUMBER <b>Appl. Dtd 7-2-08</b>
		1c. PHONE NUMBER 801-649-2146		1d. FAX NUMBER 801-321-0453
		1e. E-MAIL ADDRESS trogers@energysolutions.com		
2. TYPE OF NRC LICENSE REQUESTED (Check One) <input checked="" type="checkbox"/> EXPORT (Parts B, C, E) <input type="checkbox"/> NOTIFICATION OF EXPORT OF INCIDENTAL RADIOACTIVE MATERIAL (PART C.E) <input type="checkbox"/> IMPORT (Parts B, D, E) <input type="checkbox"/> COMBINED EXPORT/IMPORT (Parts B, C, D, E) <input type="checkbox"/> AMENDMENT/RENEWAL				
3. CONTRACT NUMBER(S) Not applicable		4. FIRST SHIPMENT DATE May 1, 2008	5. LAST SHIPMENT DATE Prior to expiration date	6. PROPOSED EXPIRATION DATE June 30, 2008
<b>PART C. TO BE COMPLETED FOR EXPORT ONLY OR COMBINED LICENSES, AMENDMENTS, OR RENEWALS</b> (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  Duratek Services, Inc Memphis Facility 1790 Dock Street Memphis, TN 38113 Office Number: (901) 947-7832		8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)  ----- 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 diana.harvey@opg.com
7a. LIST FUNCTIONS PERFORMED/SERVICE PROVIDED  Pump and impeller refurbishment at the Memphis facility resulted in the generation of a small quantity of radioactive waste for return.		8a. INTERMEDIATE USE(S)  ----- none -----		9a. ULTIMATE END USE(S) Storage or disposal by the original generator, 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 170 pounds (24 cubic feet) of dry active waste generated from the refurbishment of a pump and pump impeller from Ontario Power Generation, Pickering NGS B, Pickering ON  Waste Class A in accordance with 10 CFR 61.55.		10a. MAX TOTAL VOLUME/ ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)  24 cubic feet 2.31E+07 Bq	10b. MAX ENRICHMENT OR WGT %  N/A	10c. MAX ISOTOPE WGT (KG)  N/A
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)  N/A <b>NONE</b>				

*Rec'd 7-8-08  
RB*

NRC FORM 7  
(6-2007)  
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

**APPLICATION FOR NRC EXPORT/IMPORT  
LICENSE, AMENDMENT, OR RENEWAL (Continued)**

LICENSE NUMBER XW014 DOCKET NUMBER 11005756 ADAMS ACCESSION NUMBER                       PUBLIC OR  NON-PUBLIC

**PART D. TO BE COMPLETED FOR IMPORT ONLY, OR COMBINED LICENSES, AMENDMENTS, OR RENEWALS**  
(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

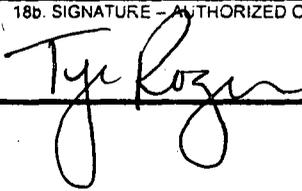
12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT  N/A	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)  N/A	14. NAME(S) / ADDRESS(ES) OF ULTIMATE CONSIGNEE(S)  N/A	
12a. NRC EXPORT LICENSE NUMBER(S) (if applicable)  N/A	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)  N/A	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)  N/A	
15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES  N/A	15a. MAX TOTAL VOLUME/ ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)  N/A	15b. MAX ENRICHMENT OR WGT %  N/A	15c. MAX ISOTOPE WGT (KG)  N/A

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 checked="" type="checkbox"/> YES <input type="checkbox"/> NO
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**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 Tye Rogers, Vice-President, Regulatory Affairs	18b. SIGNATURE - AUTHORIZED OFFICIAL 	18c. DATE 7/21/08
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RB*

APPLICATION FOR NRC EXPORT/IMPORT  
LICENSE, AMENDMENT, OR RENEWAL (Continued)

LICENSE NUMBER

XW014

DOCKET NUMBER

11005756

ADAMS ACCESSION NUMBER

 PUBLIC OR  NON-PUBLIC

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 (Bq)	Activity (mCi)
Co60	1.50E+07	4.05E-01
Zr95	1.94E+06	5.25E-02
Ru106	1.26E+06	3.44E-02
Cr51	1.04E+06	2.87E-02
Ce144	1.04E+06	2.81E-02
Ru103	8.88E+05	2.44E-02
Ce141	8.51E+05	2.37E-02
Mn54	6.66E+05	1.81E-02
Fe59	2.54E+05	6.87E-03
Pu239	6.92E+04	1.87E-03
Totals	2.31E+07	6.24E-01

The Appendix P isotopes are as follows:

Co60	1.50E-5 TBq
Pu239	6.92E-8 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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RB



Canadian Nuclear  
Safety Commission

Commission canadienne  
de sûreté nucléaire

P.O. Box 1046 Station B  
Ottawa, Ontario  
K1P 5S9

C.P. 1046, Succursale B  
Ottawa (Ontario)  
K1P 5S9

Fax: (613) 995-5086

Télécopieur: (613) 995-5086

XW014  
11005-756

Doc No: N/A

Date: N/A

11-2-3

## IMPORT LICENCE

- I) **LICENCE NUMBER:** IL-A1&A3-4129.0/2008
- II) **LICENSEE:** Pursuant to sections 24 and 37 of the *Nuclear Safety and Control Act*, this licence is issued to:

**Ontario Power Generation Inc.**  
**700 University Avenue**  
**Toronto, Ontario**  
**M5G 1X6**

**Ship to: OPG, Pickering NGS A&B, Pickering, Ontario.**

- III) **LICENCE PERIOD:** This licence is valid from **May 15, 2007 to May 31, 2008** unless otherwise suspended, amended, revoked or replaced.
- IV) **LICENSED ACTIVITY:** This licence authorizes the licensee to import from:

Flowserve Corporation  
 Charlotte Nuclear Service Centre  
 2801-T-Hutchison McDonald Road  
 Charlotte, NC  
 USA 28269

Durateck Services, Inc.  
 1790 Dock Street  
 Memphis, TN  
 USA 38113

Controlled Nuclear Substances and Parts for Controlled Nuclear Equipment, as identified in Part A.1. and A.3. of the Schedule to the *Nuclear Non-Proliferation Import and Export Control Regulations*: One primary coolant pump cover and impeller, and associated refurbishment waste material comprised of up to 18 MBq (7.66 mg) of Pu-239; items being returned to OPG after equipment refurbishment.

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 RB

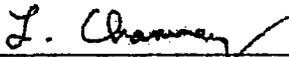
Canada

V) CONDITIONS:

GENERAL

- 1.1 This licence authorizes only the activity set out in section IV) unless amended by the Canadian Nuclear Safety Commission or a Designated Officer on its behalf.
- 1.2 The licensee shall present this licence to a customs officer on importing controlled nuclear substances and parts for controlled nuclear equipment under this licence.

DATED at OTTAWA, this 15<sup>th</sup> day of May 2007.

  
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Larry G. Chamney  
Designated Officer, on behalf of the  
Canadian Nuclear Safety Commission

Rec'd 7-8-08  
RB



XW014  
11005 756

CD08-0206

July 2, 2008

Mr. Steve Dembeck  
Office of International Programs  
U. S. Nuclear Regulatory Commission  
OWFN, 4E21, IP/ECIOB  
Washington, DC 20555

**Subject:** Application for Specific License to Export Radioactive Material

Dear Mr. MacMurdy:

Duratek (a subsidiary of EnergySolutions) requests a specific license to export radioactive material from our Memphis, Tennessee facility to Canada.

The purpose of the export license is to return approximately 170 pounds (approximately 24 cubic feet) of Class A radioactive dry active waste generated during the refurbishment of a pump and pump impeller from Ontario Power Generation's Pickering Station.

The Memphis facility is contracted by FlowServe, Inc. to provide licensed support services for equipment refurbishing work performed by FlowServe, Inc. The equipment was imported from Canada under the general import license provisions of 10 CFR 110.27 and returned under the general export license provisions of 10 CFR 110.26.

If you have any questions or need additional information, please do not hesitate to call me at 801-649-2146.

Respectfully submitted,

  
Tye Rogers  
Vice President - Regulatory Affairs  
EnergySolutions, Inc.

Attachment:

- 1) Export Application

Rec'd  
7-8-08  
RB