NRC FORM 7 (8-2007) 10 CFR 110 — U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0027 — EXPIRES: 06/30/2009

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.

APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL

(See Instructions on Page 5)

PART A. FOR NRC USE ONLY	☑ PUBLIC OR ☐ NON-PUBLIC	DATE RECEIVED 7-8-08
LICENSE NUMBER XW014	DOCKET NUMBER 11005756	ADAMS ACCESSION NUMBER

PART B. TO BE COMPLETED FOR ALL 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.)

1. NAME AND ADDRESS OF APPLICANT/LICENSEE	1a. NAME OF APPLICANT'S CONTACT	1b. APPLICANT'S REFERENCE NUMBER
Duratek Services, Inc Memphis Facility 1790 Dock Street Memphis, TN 38113 Office Number: (901) 947-7832	Tye Rogers	Appl. Dtd 7-2-08
	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)

☒ EXPORT (Parts B, C, E) ☐ NOTIFICATION OF EXPORT OF INCIDENTIAL RADIOACTIVE MATERIAL (PART C,E) ☐ IMPORT (Parts B, D, E) ☐ COMBINED EXPORT/IMPORT (Parts B, C, D, E) ☐ AMENDMENT/RENEWAL

3. CONTRACT NUMBER(S)	4. FIRST SHIPMENT DATE	5. LAST SHIPMENT DATE	6. PROPOSED EXPIRATION DATE
Not applicable	May 1, 2008	Prior to expiration date	June 30, 2008

PART C. TO BE COMPLETED FOR EXPORT 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.)

7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT	8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)	9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)
Duratek Services, Inc Memphis Facility 1790 Dock Street Memphis, TN 38113 Office Number: (901) 947-7832	----- none -------	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	8a. INTERMEDIATE USE(S)	9a. ULTIMATE END USE(S)
Pump and impeller refurbishment at the Memphis facility resulted in the generation of a small quantity of radioactive waste for return.	----------none----------	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	10a. MAX TOTAL VOLUME/ ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	10b. MAX ENRICHMENT OR WGT %	10c. MAX ISOTOPE WGT (KG)
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.	24 cubic feet 2.31E+07 Bq	N/A	N/A

11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

N/A NONE

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	DOCKET NUMBER	ADAMS ACCESSION NUMBER	☑ PUBLIC OR ☐ NON-PUBLIC
XW014	11005756		

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	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14. NAME(S) / ADDRESS(ES) OF ULTIMATE CONSIGNEE(S)
N/A	N/A	N/A

12a. NRC EXPORT LICENSE NUMBER(S) (if applicable)	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)
N/A	N/A	N/A
	13b. INTERMEDIATE USE(S)	14b. INTERMEDIATE USE(S)
	N/A	N/A

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)
N/A	N/A	N/A	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?	☒ YES ☐ NO	17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED?	☒ YES ☐ 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	18b. SIGNATURE – AUTHORIZED OFFICIAL	18c. DATE
Tye Rogers, Vice-President, Regulatory Affairs	Tye Rogers	7/2/08

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RB

NRC FORM 7
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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 (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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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

Our file / Notre référence

Your file / Votre référence

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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Canada

XW014
11005756

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 15th day of May 2007.

L. Chamney

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

Rec'd 7-8-08
RB

XW014
11005756

ENERGY*SOLUTIONS*

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 Energy*Solutions*) 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

Tye Rogers
Vice President – Regulatory Affairs
EnergySolutions, Inc.

Attachment:

1) Export Application

Rec'd 7-8-08 PB

423 West 300 South, Suite 200 • Salt Lake City, Utah 84101
801.649.2000 • Fax: 801.321.0453 • www.energysolutions.com