

NRC FORM 7 (8-2007) 10 CFR 110	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0027	EXPIRES: 06/30/2009
<b>APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL</b> (See Instructions on Page 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 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, NEOF-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.	
<b>PART A. FOR NRC USE ONLY</b>		<input type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	DATE RECEIVED <div style="text-align: right; font-size: 1.2em;">APR 09 2010</div>
LICENSE NUMBER	DOCKET NUMBER	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 EnergySolutions 1560 Bear Creek Rd Oak Ridge, TN 37831		1a. NAME OF APPLICANT'S CONTACT Philip Gianutsos	
		1b. APPLICANT'S REFERENCE NUMBER ---N/A---	
		1c. PHONE NUMBER 865 220-1478	
		1d. FAX NUMBER 865 220-1668	
		1e. E-MAIL ADDRESS pgianutsos@energysolutions.com	
2. TYPE OF NRC LICENSE REQUESTED (Check One)			
<input type="checkbox"/> EXPORT (Parts B, C, E) <input checked="" 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 Existing License Number:			
3. CONTRACT NUMBER(S) Not Applicable	4. FIRST SHIPMENT DATE 04/09/2010	5. LAST SHIPMENT DATE 12/31/2010	6. PROPOSED EXPIRATION DATE ---N/A---
<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  EnergySolutions 1560 Bear Creek Rd Oak Ridge, TN 37831		8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)  ---NONE---	
		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)  GE Hitachi Nuclear Energy Canada 2300 Meadowale Blvd Mississauga, Ontario, Canada	
7a. LIST FUNCTIONS PERFORMED/SERVICE PROVIDED  Empty, reusable containers provided by EnergySolutions to GE Hitachi Canada.		8a. INTERMEDIATE USE(S)  ---NONE---	
		9a. ULTIMATE END USE(S)  The containers are for use by GE Hitachi Canada for packaging of radioactive material. A licensed Canadian broker (Monserco) will eventually return the containers to Oak Ridge, TN, as authorized by IW017.	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT  Up to five (5) 8' X 8' X 40' DOT Empty cargo containers each weighing approximately 4000 kgs (8750 pounds). Incidental radioactive material is present as contamination on the interior surfaces of the containers. The contamination is predominantly byproduct material, with traces of source and special nuclear material. All radioactive material is in the form of solid metal oxides. See attached page for quantities of Appendix L materials. Several Appendix P radionuclides will be present, with each shipment << 0.1% of the Category 2 limit (calculation is also presented in attachment)		10a. MAX TOTAL VOLUME/ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)  Total for 5 containers:  Approx 1.99E-3 TBq (5.38E-2 Ci) of byproduct material.  Approx 0.002 kgs of source Material  < 0.001 grams of SNM (Pu)	10b. MAX ENRICHMENT OR WGT %  No enriched U
		10c. MAX ISOTOPE WGT (KG)  Total for 5 containers:  PU-239 6.31E-8 PU-240 1.73E-8	
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)  -----NONE-----			

rcv'd  
APR 09 2010

NRC FORM 7  
(8-2007)  
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

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

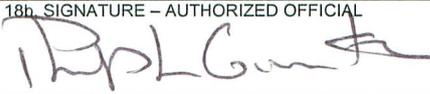
LICENSE NUMBER	DOCKET NUMBER	ADAMS ACCESSION NUMBER	<input type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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**PART D. TO BE COMPLETED FOR IMPORT ONLY, OR COMBINED LICENSES, AMENDMENTS, OR RENEWALS**  
(If more space is needed to complete 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-----	
	13b. INTERMEDIATE USE(S) -----N/A-----	14b. INTERMEDIATE USE(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 PAGE 3 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 Philip Gianutsos, CHP Radiation Safety Officer	18b. SIGNATURE - AUTHORIZED OFFICIAL 	18c. DATE 04/08/10

*Rev'd*  
APR 09 2010

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

LICENSE NUMBER	DOCKET NUMBER	ADAMS ACCESSION NUMBER	<input 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 DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT

**Cargo Container Estimated Radionuclide Information**

Radiological Content 40' empty seavan		
Activity Nuclide	MBq	mCi
AM-241	1.615E-01	4.365E-03
C-14	1.534E+01	4.146E-01
CM-243	1.197E-01	3.235E-03
CM-244	1.197E-01	3.235E-03
CO-57	9.029E-01	2.440E-02
CO-60	5.612E+01	1.517E+00
CS-134	7.700E+00	2.081E-01
CS-137	7.163E+01	1.936E+00
FE-55	4.805E+01	1.299E+00
H-3	1.403E+02	3.792E+00
MN-54	2.438E+00	6.589E-02
PU-239	2.904E-02	7.849E-04
PU-240	2.904E-02	7.849E-04
SR-90	2.967E+01	8.018E-01
TH-234	2.209E+01	5.969E-01
U-233	1.372E-03	3.709E-05
U-234	6.328E-02	1.710E-03
U-235	6.078E-03	1.643E-04
U-236	2.848E-03	7.697E-05
U-238	3.826E-03	1.034E-04
ZN-65	2.615E+00	7.067E-02
<b>Total</b>	<b>3.974E+02</b>	<b>1.075E+01</b>
	TBq	Ci
Single Seavan	3.974E-04	1.075E-02
5 40' seavans	1.987E-03	5.375E-02

Special Nuclear Material & Source Material			
	40' seavan		SNM Totals for 5 Seavans
	SNM (gms)	SM (kgs)	gms
PU-239	1.263E-05		6.313E-05
PU-240	3.457E-06		1.729E-05
TH-234		2.568E-11	
U-233	3.812E-06		1.906E-05
U-234	No	2.751E-07	No
U-235	Enriched		Enriched
U-236	Uranium	1.187E-06	Uranium
U-238		3.188E-04	
<b>Total</b>	<b>1.989E-05</b>	<b>3.203E-04</b>	<b>9.947E-05</b>

kg source material X5                      1.601E-03  
U enrichment                                      2.450E-02

APPENDIX P EVALUATION			
nuclide	40' activity, MBq	App P, Cat 2 limit	1 empty 40' seavand
		MBq	(fraction of limit)
AM-241	1.615E-01	6.000E+05	2.691E-07
CM-244	1.197E-01	5.000E+05	2.394E-07
CO-60	5.612E+01	3.000E+05	1.871E-04
CS-137	7.163E+01	1.000E+06	7.163E-05
SR-90	2.967E+01	1.000E+07	2.967E-06
<b>shipment of 1 40' seavan, sum of fractions</b>			<b>2.622E-04</b>

*Rcvd*  
**APR 09 2010**



Commercial Processing Division 1560 Bear Creek Road Oak Ridge, TN 37831 865 481-0222

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April 8, 2010

Mr. Scott Moore  
Deputy Director - Office of International Programs  
US Nuclear Regulatory Commission  
Mail Stop 4E21  
Washington, DC 20555

Dear Mr. Moore:

In accordance with instructions in 10 CFR 110.4 we are providing the attached NRC Form 7 as notification of EnergySolutions' intent to export empty containers to GE Hitachi Canada in Mississauga, Ontario, Canada.

These are reusable containers dedicated to radioactive materials shipments and the interiors are surficially contaminated, albeit at very low levels. The containers are being exported under the General License for Export provisions of 10 CFR 110.-21(e), 22(a), and 23(c) for Special Nuclear Material, Source Material, and By-Product Material. The loaded containers will subsequently be collected by Monserco (a licensed Canadian broker) and eventually shipped to EnergySolutions' Oak Ridge, TN processing facility as authorized by IW017.

Contact me if additional information or clarification is required.

Respectfully,

A handwritten signature in dark ink, appearing to read "Philip Gianutsos", is written over the typed name.

Philip Gianutsos, CHP  
Radiation Safety Officer  
Commercial Processing Division

rcv'd  
APR 09 2010

Attachments:  
NRC Form 7

cc: Mr. Tim Ryder, Monserco