

<b>NRC FORM 7</b> (8-2007) 10 CFR 110	<b>U.S. NUCLEAR REGULATORY COMMISSION</b>	<b>APPROVED BY OMB: NO. 3150-0027</b>	<b>EXPIRES: 06/30/2009</b>
<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, 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.	
<b>PART A. FOR NRC USE ONLY</b>		<input type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	<b>DATE RECEIVED</b> <div style="text-align: right; font-size: large;">JUN 01 2010</div>
<b>LICENSE NUMBER</b>	<b>DOCKET NUMBER</b>	<b>ADAMS ACCESSION NUMBER</b>	
<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.)			
<b>1. NAME AND ADDRESS OF APPLICANT/LICENSEE</b> EnergySolutions 1560 Bear Creek Rd Oak Ridge, TN 37831		<b>1a. NAME OF APPLICANT'S CONTACT</b> Philip Gianutsos  <b>1c. PHONE NUMBER</b> 865 220-1478  <b>1e. E-MAIL ADDRESS</b> pgianutsos@energysolutions.com	<b>1b. APPLICANT'S REFERENCE NUMBER</b> ---N/A---  <b>1d. FAX NUMBER</b> 865 220-1668
<b>2. TYPE OF NRC LICENSE REQUESTED (Check One)</b> <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:			
<b>3. CONTRACT NUMBER(S)</b> Not Applicable	<b>4. FIRST SHIPMENT DATE</b> 01/04/2010	<b>5. LAST SHIPMENT DATE</b> 12/31/2010	<b>6. PROPOSED EXPIRATION DATE</b> ---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.)			
<b>7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT</b> EnergySolutions 1560 Bear Creek Rd Oak Ridge, TN 37831		<b>8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)</b> ---NONE---	
<b>7a. LIST FUNCTIONS PERFORMED/SERVICE PROVIDED</b> Empty, reusable containers provided by EnergySolutions to Monserco Limited.		<b>8a. INTERMEDIATE USE(S)</b> ---NONE---	
<b>9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)</b> Monserco Limited 190 Wilkinson Road, Unit 2 Brampton, Ontario, Canada L6T 4W3		<b>9a. ULTIMATE END USE(S)</b> The containers are for use by Monserco Limited for packaging of radioactive material and return to Oak Ridge, TN, as authorized by IW017.	
<b>10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT</b> 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)		<b>10a. MAX TOTAL VOLUME/ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)</b> 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)	<b>10b. MAX ENRICHMENT OR WGT %</b> No enriched U  <b>10c. MAX ISOTOPE WGT (KG)</b> Total for 5 containers: PU-239 6.31E-8 PU-240 1.73E-8  <div style="text-align: right; font-size: large;">Rec'd</div>
<b>11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)</b> -----NONE-----			

JUN 01 2010  
JC

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

 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-----

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?

 YES  NO

17a. COPIES OF RECIPIENTS'  
AUTHORIZATIONS PROVIDED?

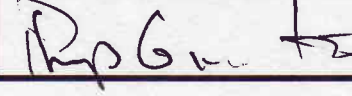
 YES  NO

**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

Philip Gianutsos, CHP Radiation Safety Officer

18b. SIGNATURE - AUTHORIZED OFFICIAL



18c. DATE

5/27/2010

Rec'd  
JUN 01 2010  
JC

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			10c. MAX ISOTOPE WGT (KG)  Total for 5 containers:  PU-239 6.31E-8 PU-240 1.73E-8  <div style="text-align: right; font-size: large; color: blue;">Rec'd</div>
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)  -----NONE-----			
			JUN 01 2010 <div style="font-size: large; color: blue;">JC</div>

**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			
Nuclide	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 MBq	1 empty 40' seavand (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>

*Rec'd*  
JUN 01 2010  
*JC*