

NRC FORM 7 (8-2007) 10 CFR 110		U.S. NUCLEAR REGULATORY COMMISSION		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 infocollect@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			
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 02/09/09					
LICENSE NUMBER		DOCKET NUMBER		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 EnergySolutions 1560 Bear Creek Rd Oak Ridge, TN 37831		1a. NAME OF APPLICANT'S CONTACT Philip Gianutsos 1c. PHONE NUMBER 865 220-1478 1e. E-MAIL ADDRESS pgianutsos@energysolutions.com		1b. APPLICANT'S REFERENCE NUMBER ---N/A--- 1d. FAX NUMBER 865 220-1668					
2. TYPE OF NRC LICENSE REQUESTED (Check One) ☐ EXPORT (Parts B, C, E) ☒ NOTIFICATION OF EXPORT OF INCIDENTAL RADIOACTIVE MATERIAL (PART C,E) ☐ IMPORT (Parts B, D, E) ☐ COMBINED EXPORT/IMPORT (Parts B, C, D, E) ☐ AMENDMENT/RENEWAL Existing License Number:									
3. CONTRACT NUMBER(S) Not Applicable		4. FIRST SHIPMENT DATE 2/10/09		5. LAST SHIPMENT DATE 12/31/09		6. PROPOSED EXPIRATION DATE ---N/A---			
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 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) AECL Chalk River Laboratories Chalk River Ontario Canada K0J 1J0 Contact: Bart Campbell Ph: 613-584-8811					
7a. LIST FUNCTIONS PERFORMED/SERVICE PROVIDED Empty, reusable containers being returned to AECL Chalk River Laboratories.		8a. INTERMEDIATE USE(S) ---NONE---		9a. ULTIMATE END USE(S) The containers were exported from AECL Chalk River to Oak Ridge, TN by a Canadian Broker (Monserco) in accordance with I!W017. After emptying the containers of their contents, the containers are being returned to AECL Chalk River.					
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Forty-eight (48) DOT Empty containers to be shipped to AECL Chalk River (Canada). The containers consist of one nominal 8'x8'x20' cargo container weighing approximately 5500 kgs (12,000 pounds); thirty (30) B-25 boxes (nominal 4'X4'X8' weighing approximately 325 kgs or 720 pounds); and seventeen (17) roll-off containers (nominal 6'X8'X21' weighing 2500kgs or 5500 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 48 containers: Approx 1.68E-5 TBq (0.4.54E-4 Ci) of byproduct material. Approx 0.119 kgs of source Material < 0.002 grams of SNM (Pu)		10b. MAX ENRICHMENT OR WGT % No enriched U		10c. MAX ISOTOPE WGT (KG) Total for 48 containers: PU-238 4.62E-11 PU-239 9.09E-8 PU-240 2.46E-8 READ NM 02-09-09	
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) -----NONE-----									

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 01/26/09	

NM
REC'D
02-09-09

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
----------------	---------------	------------------------	---

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

Activity in each empty package to be returned is estimated to be approximately 1% of the incoming manifested material.

Radiological Content							SNM and Source Material						
B-25		Bin		Cargo			B-25		Bin		Cargo		
Bq	mCi	Bq	mCi	Bq	mCi		SNM (gms)	SM (kgs)	SNM (gms)	SM (kgs)	SNM (gms)	SM (kgs)	
Cs-137	2.32E+05	6.25E-03	1.40E+04	3.79E-04	2.90E+04	7.83E-04	Pu-238	7.90E-10		1.26E-09		1.09E-09	
Sr-90	2.32E+05	6.25E-03	1.40E+04	3.79E-04	2.90E+04	7.83E-04	Pu-239	2.10E-06		1.46E-06		3.05E-06	
Co-60	1.13E+03	3.06E-05	7.94E+03	2.14E-04	1.60E+04	4.32E-04	Pu-240	5.70E-07		3.93E-07		8.22E-07	
Nb-94	2.46E+01	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	U-235	No	3.16E-05	No	1.22E-05	No	2.53E-05
Nb-95	2.78E+01	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	U-238	Enriched	3.15E-03	Enriched	1.21E-03	Enriched	2.50E-03
Ra-226	4.67E+00	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Uranium		Uranium		Uranium		
Eu-154	1.13E+01	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
Am-241	4.26E+03	1.15E-04	2.99E+03	8.09E-05	6.10E+03	1.65E-04							
Pu-238	4.98E+02	1.34E-05	7.58E+02	2.05E-05	6.90E+02	1.86E-05							
Pu-239	4.86E+03	1.31E-04	3.35E+03	9.03E-05	7.00E+03	1.89E-04							
Pu-240	4.86E+03	1.31E-04	3.35E+03	9.03E-05	7.00E+03	1.89E-04							
U-235	2.44E+03	6.59E-05	9.93E+02	2.68E-05	2.06E+03	5.56E-05							
U-238	3.95E+04	1.07E-03	1.52E+04	4.10E-04	3.15E+04	8.51E-04							
Total	5.21E+05	1.41E-02	6.26E+04	1.69E-03	1.28E+05	3.47E-03							
Total for 30 B-25's							APPENDIX P EVALUATION						
Total for 17 bins							APP P, Cat 2						
Total for one Cargo Cont.							B-25						
TBq/Ci	1.56E-05	4.22E-04	1.06E-06	2.87E-05	1.28E-07	3.47E-06	nuclide	limit MBq	MBq	Fraction of Limit	MBq	Fraction of Limit	MBq
							Am-241	6.00E+05	4.26E-03	7.10E-09	2.99E-03	4.99E-09	6.10E-03
							Co-60	3.00E+05	1.13E-03	3.78E-09	7.94E-03	2.65E-08	1.60E-02
							Cs-137	1.00E+06	2.32E-01	2.32E-07	1.40E-02	1.40E-08	2.90E-02
							Pu-238	6.00E+05	4.98E-04	8.30E-10	3.35E-03	5.58E-09	6.90E-04
							Sr-90	1.00E+07	2.32E-01	2.32E-08	1.40E-02	1.40E-09	2.90E-02
							Sum of Fractions			2.67E-07		5.25E-08	
							Most restrictive shipment: 24 B-25's, sum of fractions					6.40E-06	

NM
PRED
07-09-09