CFR 110 CFR 110 CFR 110 CFR 110 CFR 110 CFR 10 CFR 10 C		Esti is are Ser or b Affa DC OM resp	ON 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.			
PART A. FOR NRC USE ONLY				р <u>10-21-</u>	<u>)9</u>	
	DOCKET NUM	5EK	ADAMS ACCES			
PART B (If more space is ne	eded to complete an	ETED FOR A	LL LICENSES, AMENDMEN use Pages 3-4 first, and then attac	TS, OR RENEWALS ch additional sheets, if neces	sary.)	
1. NAME AND ADDRESS OF APPLICAT	NT/LICENSEE	1a. NAME O Philip Gianut	F APPLICANT'S CONTACT	1b. APPLICANT'S REFERE	D. APPLICANT'S REFERENCE NUMBER	
1560 Bear Creek Rd		1c. PHONE 1 865 220-147	NUMBER 8	1d. FAX NUMBER 865 220-1668	FAX NUMBER 5 220-1668	
Dak Ridge, TN 37831			ADDRESS energysolutions.com	<b></b>	· · · · · · · · · · · · · · · · · · ·	
2. TYPE OF NRC LICENSE REQUESTE EXPORT IN NOTI (Parts B, C, E) RADIOAC MATERIA	ED (Check One) FICATION OF OF INCIDENTIAL CTIVE L (PART C,E)	☐ IMPORT (Parts B,	COMBINED EXPOR D, E) (Parts B, C, D, E)	RT/IMPORT AMENDI Existing	MENT/RENEWAL License Number:	
3. CONTRACT NUMBER(S) RWSA dated 10/17/07	4. FIRST SHIPME 1/27/09	ENT DATE 5. LAST SHIPMENT DATE 6. PROPOSED EXPIRATION DATE 12/31/09N/A			NTION DATE	
PART C. TO BE COM	PLETED FOR EX	PORT ONLY	OR COMBINED LICENSES,	, AMENDMENTS, OR RE	NEWALS	
AND/OR OTHER PARTIES TO THE EX	LIERS PORT	8. NAME(S) FOREIGN C	ADDRESS(ES) OF INTERMEDIA ONSIGNEE(S)	ATE 9. NAME(S) / ADDR FOREIGN CONSIGN	ESS(ES) OF ULTIMATE	
Energy <i>Solutions</i> 1560 Bear Creek Rd Oak Ridge, TN 37831			NONE	Bruce Power Inc. Building B10,177 Municipality of Kir R.R #2	Tie Road cardine	
and the second sec				Tiverton, Ontario I Contact: Kurt Wig Ph: 519-361-2673	NOG 2T0 e ext. 3745	
a. LIST FUNCTIONS PERFORMED/SERV	ICE PROVIDED	8a. INTERMEDIATE USE(S)     9a. ULTIMATE END USE(S)				
Empty, reusable containers provide Energy <i>Solutions</i> to Bruce Power.	d by		NONE	The containers are f packaging of radioad Canadian broker (Mo return the containers as authorized by IW	or use by Bruce Power for tive material. A licensed onserco) will eventually to Oak Ridge, TN, 217.	
10. DESCRIPTION OF RADIOACTIVE NUCLEAR FACILITIES, EQUIPMENT,	MATERIALS, SEALE OR COMPONENTS;	D SOURCES, FOR	10a. MAX TOTAL VOLUME/ ELEMENT WGT (KG), OR	10b. MAX ENRICHMENT OR WGT %	10c. MAX ISOTOPE WGT (KG)	
NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT			Total for 90 containers	No enriched U	Total for 90 containers:	
Up to 90 cargo containers will be shipped to consignees listed in the Additional Information Sheet. The cargo containers consist of nominal 8'x8'x20' cargo containers each weighing approximately 5500 kgs (12,000 pounds) and containing empty metal boxes for waste packaging. Incidental radioactive material is present as contamination on the interior surfaces of the cargo containers and metal boxes. 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)			Approx 0.044 TBq (1.19 Ci) of byproduct material.		PU-238 4.45E-9 PU-239 5.48E-6 PU-240 5.87E-9	
			Approx 0241 kgs of source Material		PU-241 7.20E-9 PU-242 7.27E-6	
			< 0.02 grams of SNM (Pu)			
	NTRY AND BY PER	CENTAGE OF	MAXIMUM TOTAL VOLUME)			
11. FOREIGN OBLIGATIONS (BY COU			· · <b>-</b> · · <b>-</b>			
11. FOREIGN OBLIGATIONS (BY COU			NONE			

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· · · ·	NRC FORM 7 (8-2007)	<u> </u>	·····	U.S. NUCLEAR REGL	LATORY COMMISSION	
	10 CFR 110	APPLICATION FOR	NRC EXPORT/IMPOR	т .		- 14 - 1
•	LICI	ENSE, AMENDMEN	T, OR RENEWAL (Conti	inued)		
	LICENSE NUMBER DOCKET NUM	BER ADAMS A	CCESSION NUMBER			
	PART D. TO BE COMPLETED F	OR IMPORT ONLY. O	R COMBINED LICENSES.	AMENDMENTS, OR RENE	WALS	ana ang sa
-*	(If more space is needed to con	plete any of the items, use	e Pages 3-4 first, and then attac	h additional sheets, if necessary		
· •	SUPPLIERS AND/OR OTHER PARTIES	CONSIGNEE(S)	S(ES) OF INTERMEDIATE	CONSIGNEE(S)		
· -,	N/A	N/A	•	•N/A		
an the same of the second			×	· · ·	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	, sources
			 	· · · · ·		
	12a, NRC EXPORT LICENSE NUMBER(S)	13a. LICENSE NUMBER(	S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / E	XPIRATION DATE(S)	
	(if applicable)	N/A	- ·	N/A	·	a second
	N/A					na sa sa sa sa
					_	
		135. INTERMEDIATE USI	E(S)	14b. INTERMEDIATE USE(S)		
• • •		N/A	-	N/A		54 A.
	· · · ·	··· · · · · · · · · · ·	and and and a second	and the second		· · ·
	15. DESCRIPTION OF RADIOACTIVE MATERIALS	, SEALED SOURCES.	15a. MAX TOTAL VOLUME/	15b. MAX ENRICHMENT	15c. MAX ISOTOPE	ant in the second
			TOTAL ACTIVITY (TBq)	N/A	N/A	
			N/A			· · ·
	16. FOREIGN OBLIGATIONS (BY COUNTRY AND	BY PERCENTAGE OF M	AXIMUM TOTAL VOLUME)	•	- 14 -	
	PART E. TO BE C	OMPLETED FOR ALL	LICENSES, AMENDMEN	S. OR RENEWALS	•	-
	17. ADDITIONAL		•	·····		
	PROVIDED ON PAGE 3 YES AND/OR ON SEPARATE SHEETS?	NO 17a. COPIES AUTHORIZA	OF RECIPIENTS' TIONS PROVIDED?	🗆 YES 🖾 NO		
	18. CERTIFICATION: I, the applicant's a Code of Federal R	uthorized official, hereb egulations, and that all	y certify that this application information provided is corr	is prepared in conformity w	ith Title 10,	
	18a. PRINT NAME AND TITLE OF AUTHORIZED OFFI	CIAL 186_SIGNAT	URE - AUTHORIZED OFFICIAL	18c. DAT	E	· · ·
	.Philip Gianutsos, CHP Radiation Safety Office	er IV2	~ (~ h	Oct 19, 2	009	-
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NRC	FORM 7						· · · · · · · · · · · · · · · · · · ·	U.S. NUCI FAR R	EGULATORY COMMISSION	
(8-200	)7)							U.S. NOULANT		
. 10 CF	RTIU							IDORT		
				LIC	ENSE. AN	MENDMENT. O	RRENEWAL	(Continued)	•	
200 - Mai an an			· · · · · · · · · · · · · · · · · · ·			,		· · · · · · · · · · · · · · · · · · ·		
LICE	NSE NUM	BER	DC	OCKET NL	IMBER	ADAMS ACC	ESSION NUMBER		OR NON-PUBLIC	
ADDI	ITIONAL I	NFORMATION	N (Reference ap	plicable bl	ock numbers	from page 1 and/or	page 2 for each er	ntry)	· · · · · · · · · · · · · · · · · · ·	
For b	locks 10,	10a-10c:	·:· .				•. · ·			
Activi	itv is scale	d from current	é empty containe	er isotopic	distribution a	nd is representative	of containers to be	exported.	4	
	,						<b>.</b>			
		· · ·	<del> </del>				*** · · · ·		a and the second	
	Rad	ological Con 20' empt	v seavan	Г	Special N	uclear Material & S	Source Material	£*** • •		
A	ctivity	MBq	mCi			- 20' s	seavan			
	cnae C-228	3.428E-03	9.265E-05			SININ (gms)	əni (kgs)		e la companya de la c	
A	G-110	4.473E-01	1.209E-02		PU-238	4.946E-08				
B	81-214	1.613E-03	4.359E-05		PU-240	6.522E-08		· · · ·	· · · · · · · · · · · · · · · · · · ·	
	C-14 E-144	5.238E-01 5.811E-02	1.416E-02		PU-241 PU-242	8.003E-08 8.077E-05				
C	M-243	7.371E-03	1.992E-04		TH-230	0.0772.00	2.076E-09			
	M-244 CO-58	6.537E-03- 7.509E+00	1.767E-04 2.029E-01		TH-234 U-233	1.151E-04	3.806E-13	· · · ·		
C C	0-60	6.693E+01	1.809E+00		U-234	No	6.743E-06			
c c	S-134	4.553E-01	1.231E-02		U-235 U-236	Uranium	2.697E-05			
C E	S-137 U-152	5.194E+00	1.404E-01		U-238		2.641E-03			
F	E-55	2.471E+02	6.679E+00	. [	Total	2.570E-04	2.675E-03			
	E-59 H-3	8.129E-01 1.041E+02	2.197E-02 2.815E+00			• • • •			•	
1	-125	4.277E-01	1.156E-02		kg source r	naterial X90	2.410E-01		•	
	IB-95	1.325Ê+00	3.582E-02							
	NI-59	1.530E+00	4.136E-02		u					
	NI-63	2.112E+01	5.709E-01		enrichment		6.882E-03		· .	
P	U-238	3.111E-02	2.550E-05 8.409E-04	-			يرد ماد الجر		<ul> <li>A statistic statistics</li> </ul>	
P P	U-239 U-240	1.398E-01 5.550E-04	3.777E-03				· .	ay in an an an a		
P	U-241	2.961E-01	8.003E-03	Γ	APPENDIX	P EVALUATION				
Р	U-242	1.166E-02	3.150E-04				App P, Cat 2	1 empty 20' sealand		
	B-125	6 7255-01	1 8185-02		nuclida	20' activity, MBo	MBo	(fraction of limit)		
s	N-113	3.013E-02	8.144E-04		AM-241	1.196E-01	6.000E+05	1.994E-07		
S S	SR-90	3.474E-01	9.389E-03		CM-244	6.537E-03	5.000E+05 3.000E+05	1.307E-08		
ή τ	H-230	1.613E-03	4.359E-05		CS-137	5.194E+00	1.000E+06	5.194E-06		
<u>T</u>	H-234	3.239E-01	8.753E-03	·	Pu-238	3.111E-02	6.000E+05	5.186E-08		
	L-208	7.052E-04	1.906E-05		SR-90	3.474E-01	1.000E+07	3.474E-08		
	1-233	4.130E-02	1.116E-03	L	snipment o	t 2 20' seavans, su	im of fractions	4.572E-04		
11 1	J-234	1 494F-03	4.181E-02					•		•
11 i	J-236	6.487E-02	1.753E-03				<ul> <li>strong of</li> </ul>	1		·••
1 i	J-238	3.323E-02	8.980E-04					·		
z	ZN-65	9.696E+00	2.621E-01							
	2R-95	4.480E-01	1.211E-02							
·	Total	4.903E+02	1.325E+01				·	· · · ·	1	
Sin	igle	ıвq	ų					a tha an		
-Sea	avan 20'	4.903E-04	1.325E-02			•			·	
sea	avans	4.412e-02	1.19e=00						-	
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Commercial Processing Division 1560 Bear Creek Road Oak Ridge, TN 37831 865 481-0222

October 19, 2009

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 amended NRC Form 7 as notification of Energy*Solutions* intent to export empty containers to Bruce Power Station in Ontario, Canada. Energy*Solutions* previously notified the commission of the intent to export up to 50 empty containers. The attached NRC Form 7 increases the number of empty containers from 50 to 90.

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 Energy*Solutions* Oak Ridge, TN processing facility as authorized by IW017.

Contact me if additional information or clarification is required.

Respectfully,

Philip Gianutsos, CHP Radiation Safety Officer Commercial Processing Division

Attachments: NRC Form 7

cc: Mr. Tim Ryder, Monserco