

ENERGYSOLUTIONS

11005711
- LW023 ✓

and

11005710 - XW013

CD07-0304

September 14, 2007

Mr. Scott Moore, Deputy Director
Office of International Programs
U.S. Nuclear Regulatory Commission
Mail Stop O4E21
11555 Rockville Pike
Rockville, MD 20852

Subject: Applications for 1) Specific License to Import Radioactive Material (from Italy)
2) Specific License to Export Radioactive Material (to Italy)

Dear Mr. Moore:

EnergySolutions requests a specific license to import potentially radioactively contaminated material from Italy to our licensed disposal facility in Clive, Utah. In conjunction with the request for import authorization, we are also requesting a specific license for return shipment, to the extent necessary, back to Italy.

This license is a generic license to allow the importation of up to 20,000 tons of radioactively contaminated material including metals, graphite, dry activity material such as wood, paper, and plastic, ion exchange resins, and liquids such as aqueous and organic based fluids. The sources of this material are not fully known as of the date of this application but will be limited to Italian facilities authorized to use and possess radioactive material such as reactors, fuel cycle facilities, research facilities, and material licensees or facilities equivalent to US Superfund sites. It is expected that the material to be imported would be generated during various activities such as remediation, decontamination, decommissioning, maintenance, equipment upgrades, and routine operational activities. Some of the material to be imported may be free from contamination, some may only be superficially contaminated, and some may be volumetrically contaminated.

The purpose of the import license is to import contaminated material for disposal at our Utah facility. Intermediate uses include inspections, surveys, sorting, and stabilization (as required) at our licensed Tennessee facilities. The purpose of the export license is to allow Italian waste that cannot be disposed in Utah to be exported back to Italy.

The Form 7 applications, including our referenced facility licenses, are attached. ~~We assume NRC will appropriately delete possession limit information in the interest of materials security prior to making these documents publicly available. In addition, we request that specific facility addresses and personal contact information (Form 7 continuation pages) be deleted prior to releasing these pages for review by the public.~~ We have enclosed a check in the amount of \$19,600 to address the fees for two applications specified in 10 CFR 170.31, Category 15 B., assuming Executive Branch, but not Commission review, is required for each application.

Rec'd 9-17-07
RB



If you have any questions or need additional information, please do not hesitate to call me at 801-649-2000.

Sincerely,

A handwritten signature in black ink that reads "Tye Rogers".

Tye Rogers
Senior Vice President, Regulatory Affairs
EnergySolutions

Attachments:

(2) Copies Mr. Moore

- 1) Import Application (Form 7)
- 2) Export Application (Form 7)
- 3) Letter from Utah Division of Radiation Control (CD)
- 4) Licenses (CD)
- 5) Application fee check

cc: Mr. Paul MacMurdy, USNRC OIP (1) copy

Rec'd 9-17-07
PB

NRC FORM 7 (6-2006) 10 CFR 110		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027		EXPIRES: 06/30/2009	
APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL (See Instructions on Page 5)				Estimated burden per response to comply with this mandatory collection request: 2.4 hours. This submital 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		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC		DATE RECEIVED: 9-17-07			
LICENSE NUMBER: IW023		DOCKET NUMBER: 11005711		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 423 West 300 South Suite 200 Salt Lake City, Utah 84101			1a. NAME OF APPLICANT'S CONTACT Mark Ledoux		1b. APPLICANT'S REFERENCE NUMBER IT-IM-2007-09		
			1c. PHONE NUMBER 801 649-2152		1d. FAX NUMBER 801 413 5646		
			1e. E-MAIL ADDRESS mledoux@energysolutions.com				
2. TYPE OF NRC LICENSE REQUESTED (Check One)							
<input type="checkbox"/> EXPORT (Parts B, C, E)		<input checked="" 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 yet issued-----		4. FIRST SHIPMENT DATE Estimate: spring of 2008		5. LAST SHIPMENT DATE Not yet determined		6. PROPOSED EXPIRATION DATE A 5 year license term is requested	
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 N/A - separate Form 7 filed for export			8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) ---NONE---			9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) N/A	
7a. LIST FUNCTIONS PERFORMED/SERVICE PROVIDED N/A			8a. INTERMEDIATE USE(S) ----NONE-----			9a. ULTIMATE END USE(S) N/A	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS N/A - separate Form 7 filed for export			10a. MAX TOTAL VOLUME/ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) N/A		10b. MAX ENRICHMENT OR WGT % N/A		10c. MAX ISOTOPE WGT (KG) N/A
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) -----None-----							

*Rec'd 9-17-07
RB*

NRC FORM 7
(6-2006)
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER <i>JW0043</i>	DOCKET NUMBER <i>11005711</i>	ADAMS ACCESSION NUMBER	<input checked="" 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.)

<p>12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT</p> <p>Sogin Societa Gestione Impianti Nucleari Via Troino, 6 - 00184 Roma</p> <p>Individual facilities authorized to possess radioactive materials are list on the attached page.</p>	<p>13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)</p> <p><u>EnergySolutions' U.S. licensed processing facilities:</u></p> <table style="width:100%;"> <tr> <td>EnergySolutions 1560 Bear Creek Rd Oak Ridge, TN 37831</td> <td>EnergySolutions 628 Gallaher Rd Kingston, TN 37763</td> </tr> </table> <p>EnergySolutions 1790 Dock Street Memphis, TN 38113</p>	EnergySolutions 1560 Bear Creek Rd Oak Ridge, TN 37831	EnergySolutions 628 Gallaher Rd Kingston, TN 37763	<p>14. NAME(S) / ADDRESS(ES) OF ULTIMATE CONSIGNEE(S)</p> <p>EnergySolutions 423 West 300 South , Suite 200 Salt Lake City, UT 84101</p> <p>The disposal facility is located in Section 32 of Township 1 South and Range 11 West, Tooele County, Utah.</p>
EnergySolutions 1560 Bear Creek Rd Oak Ridge, TN 37831	EnergySolutions 628 Gallaher Rd Kingston, TN 37763			

<p>12a. NRC EXPORT LICENSE NUMBER(S) (if applicable)</p> <p>Not applicable.</p>	<p>13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)</p> <p>R-73008-C14 TN RML, exp 3/31/2014 R-73016-A15 TN RML, exp 1/31/2015 R-73006-F13 TN RML, exp 6/30/2013 R-79171-L16 TN RML, exp 12/31/2016</p>	<p>14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)</p> <p>UT 2300249, Utah Radioactive Materials license (timely renewal) UT 2300478, Utah By-product (11e.2) Materials license (timely renewal)</p>
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<p>13b. INTERMEDIATE USE(S)</p> <p>Inspection, sorting, cutting, sizing, processing in accordance with applicable Tennessee licenses and permits, as amended. Waste disposal from these operations will be conducted in accordance with applicable waste attribution models established under these licenses. Nonconforming materials identified at intermediate facilities may be returned to the original generator.</p>	<p>14b. INTERMEDIATE USE(S)</p> <p>None</p>
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<p>15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES</p> <p>This is a request for a generic license to allow the importation of up to approximately 20,000 tons of radioactively contaminated material including metals, graphite waste, dry activity material such as wood, paper, and plastic, liquids such as aqueous and organic based fluids, ion exchange resins (treated and untreated) primarily for processing and/or disposal in accordance with EnergySolutions' existing Utah disposal license. Total volume is estimated to be approximately 1,000,000 cubic feet (assuming a nominal density of 40 pounds per cubic foot)</p>	<p>15a. MAX TOTAL VOLUME/ ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)</p> <p>Atomic numbers #3 - 83: to 200 TBq,</p> <p>tritium: to 400 TBq,</p> <p>U-nat & Depleted U: to 20 TBq (or approx 1.0+6 kg of source material),</p> <p>Transuranics (except Pu): to 20 TBq,</p> <p>SNM (U and Pu) to 3.5 kilograms, ²³⁵U-equivalent (e.g. 1 g Pu = 1.75 g ²³⁵U)</p>	<p>15b. MAX ENRICHMENT OR WGT %</p> <p>Enriched uranium will not exceed 5% ²³⁵U, by weight,</p>	<p>15c. MAX ISOTOPE WGT (KG)</p> <p>5 kilograms ²³⁵U-equivalent special nuclear material over the life of the license.</p>
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16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

-----None-----

PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, OR RENEWALS

<p>17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
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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.

<p>18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL</p> <p><i>Tye Rogers VP Compliance</i></p>	<p>18b. SIGNATURE - AUTHORIZED OFFICIAL</p> <p><i>Tye Rogers</i></p>	<p>18c. DATE</p> <p><i>9/14/07</i></p>
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Permitting

*Rec'd 9-17-07
PB*

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

LICENSE NUMBER <u>10033</u>	DOCKET NUMBER <u>11005711</u>	ADAMS ACCESSION NUMBER	<input checked="" 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)

Items 12 – Foreign suppliers

TRINO PWR – 260 MWe Westinghouse design Operation start 1964 Shutdown 1987	Trino Power Station Strada Statale 31/bis 13039 Trino (VC)	Davide Galli phone +39 0161 827250 fax +39 0161 805275 email galli@sogin.it
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CAORSO BWR – 860 MWe AMN-GETSCO Operation start 1978 Shutdown 1986	Caorso Power Station Via E. Fermi 5/A 29012 Caorso (PC)	Renzo Guerzoni phone +39 0523 818306 fax +39 0523 818469 email guerzoni@sogin.it
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GARIGLIANO BWR – 150 MWe G.E design Operation start 1964 Shutdown 1978	Garigliano Power Station Via Appia, km 160 + 400 81037 S Venditto – Sessa Aurunca (CE)	Severino Alfieri phone + 39 0823 055900 fax +39 0823 055934 email alfieri@sogin.it
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LATINA Gas-Graphite – 153 MWe TNPG design Operation start 1963 Shutdown 1986	Latina Power Station Via Macchiagrande, 6 04010 Borgo Sabotino (LT)	Emilio Macci Phone +39 0773 647201 fax +39 0773 648455 email macci@sogin.it
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Saluggia fuel research fuel fabrication (undergoing decommissioning)	Saluggia Facility Strada per Crescentino, snc 13040 Saluggia (VC)	Michele Gili phone +39 0161 653385 fax +39 0161 653221 email gili@sogin.it
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Bosco Marengo Commercial fuel fab facility (undergoing decommissioning)	Bosco Marengo Facility S.S. 35bis dei Giovi, km 15 15062 Bosco Marengo (AL)	Nicola Cantoro phone +39 0131 490223 fax +39 0131 490315 email cantoro@sogin.it
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Casaccia Research including fuel fab (undergoing decommissioning)	Casaccia Research Center Via Anguillarese, 301 00060 Santa Maria di Galeria (RM)	Vittorio Santinelli phone +39 06 99819369 fax +39 06 99819759 Email santinelli@sogin.it
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Trisaia Pilot fuel processing plant (undergoing decommissioning)	Trisaia Facility S.S. 106 Ionica, km 419 + 500 75026 Rotondella (MT)	Tommaso Candelieri phone +39 0835 803221 fax +39 0835 803365
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Rec'd 9-17-07
RB

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

LICENSE NUMBER <i>I 0023</i>	DOCKET NUMBER <i>11005711</i>	ADAMS ACCESSION NUMBER	<input checked="" 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)

Item 15 - Description of Radioactive Materials, Sealed Sources, Nuclear Facilities.

Waste to be imported includes operational wastes (resins, filters, miscellaneous Dry Active Wastes (DAW), metals, graphite, sludges) and large components from commercial power reactor and fuel cycle facility decommissioning projects. Metallic wastes may include pressure vessels (steam generators, pressurizers, demineralizers), structural steel, and associated piping and contaminated construction and demolition debris. Scrapped components will be received as radioactive waste and not as reactor, fuel fabrication, or enrichment process equipment. No hazardous wastes (as defined by USEPA in 40 CFR 261.3) or mixed wastes (hazardous and radioactive) are included in the request.

The radioactive materials will be present in the expected waste streams primarily as solid metal oxides distributed as surface contamination, or as dissolved and suspended solids in a liquid matrix (e.g., decontamination solutions, lubricating oils). Some activated materials may also be included in the waste stream. The overall radionuclide composition will include source material, byproduct material, and special nuclear material. Radioactive material content of each shipment will be subject to review and approval prior to shipment to our Tennessee facilities to ensure possession limits are not exceeded.

The generators of these materials are not fully known as of the date of this application but will be limited to Italian facilities authorized by the Italian regulator to use and possess radioactive material such as reactors, fuel cycle facilities, and material licensees or facilities equivalent to US Superfund sites. It is expected that the material to be imported would be generated during various activities such as routine operations (e.g., laboratory and maintenance), remediation, decontamination, and decommissioning.

The Imported material cannot be evaluated for Waste Class (as defined in 10 CFR 61.55) until it has been inspected and appropriate processing work has been completed (e.g., dewatering, solidification, incineration) as the processing work will likely affect the final waste form and Waste Class. Only Class A wastes, as defined in 10 CFR 61.55 and specified by our Utah radioactive materials license will be disposed in Clive. Wastes approved by EnergySolutions for processing will meet Class A requirements following completion of processing. In the unlikely event final waste forms exceed Class A limits and cannot be disposed domestically, they will be returned to the generator under the associated export license.

Most materials will be shipped by truck from the generators' sites in Italy to a suitable port in Italy for subsequent transport by ocean-going vessel to the Ports of Charleston or New Orleans) where it will again be transferred by truck, barge, or rail to the EnergySolutions' Tennessee facilities. Individual shipments will comply with the packaging, labeling, and marking requirements of TS-R-1, Regulations for the Safe Transport of Radioactive Material (IAEA, 2000) or the International Maritime Dangerous Goods Code (IMDG Code), as applicable. No shipments containing Highway Route Controlled quantities of radioactive material are anticipated. Appropriate notifications will be made and controls implemented for shipments that exceed the threshold for Appendix P, Category 2 quantities. Authorization to import quantities of radionuclides that exceed the threshold for Category 1 shipments is not requested at this time.

Processing

At present, many of the waste streams in Italy require additional processing for stabilization prior to long-term storage or shipment to disposal. The combined capabilities of EnergySolutions' Utah and Tennessee facilities are unique and can produce safe, stable waste forms. Examples include incineration, induction melting, decontamination, size reduction, repackaging, and recycling of metals, and advanced resin dewatering techniques. Processing will involve one or more of the following steps:

- Imported material will be removed from shipping containers and inspected for items unacceptable for processing at the Tennessee facilities or disposal at the Clive, Utah site. Items with no treatment/disposal options will be returned to the generator (under the export license also requested in this application).
- Material will be sorted and surveyed. Material that is not contaminated (i.e., meeting license conditions for unrestricted release) may be released for unrestricted use or otherwise dispositioned in accordance with processes authorized under EnergySolutions' radioactive materials licenses.
- Dry, active wastes (DAW) and liquids may also be incinerated for the energy value, used for cooling purposes, or processed for recycling through EnergySolutions' metal melter and fabricated into products for beneficial reuse.
- Resins and sludges may be dewatered (e.g., vacuum extraction) or dried to meet disposal site criteria.

Waste

Following inspection and appropriate processing activities, waste materials meeting the Clive disposal Waste Acceptance Criteria will be disposed at Clive, Utah, as customer waste. This is acceptable to the Utah site regulator, (see attached letter).

Residual radioactive material from processing the imported material such as floor sweepings, booties, slag, ash, decontaminated solution and abrasives, etc that is attributable to EnergySolutions under its Tennessee license, as amended from time to time will be disposed of in accordance with EnergySolutions' procedures and applicable license conditions and permits. Such waste is normally disposed of at Clive, Utah.

Shipments to Clive, Utah, will be by rail or truck, as appropriate for the materials and containers.

*Rec'd
9-17-07
RJ*

NRC FORM 7 (5-2006) 10 CFR 110		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027		EXPIRES: 06/30/2009	
APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL (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 info@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		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC		DATE RECEIVED 9-17-07			
LICENSE NUMBER XW013		DOCKET NUMBER 11005710		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 423 West 300 South Suite 200 Salt Lake City, Utah 84101			1a. NAME OF APPLICANT'S CONTACT Mark Ledoux		1b. APPLICANT'S REFERENCE NUMBER IT-X-2007-09		
			1c. PHONE NUMBER 801 649-2152		1d. FAX NUMBER 801 413 5646		
			1e. E-MAIL ADDRESS mledoux@energysolutions.com				
2. TYPE OF NRC LICENSE REQUESTED (Check One) <input checked="" type="checkbox"/> EXPORT (Parts B, 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 yet issued-----		4. FIRST SHIPMENT DATE Estimate: mid 2008		5. LAST SHIPMENT DATE Up to 1 yr following termination of the associated import license requested		6. PROPOSED EXPIRATION DATE 1 yr following expiration of the requested import license, application reference # IT-IM-2007-09	
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 423 West 300 South Suite 200 Salt Lake City, Utah 84101 EnergySolutions' U.S. licensed processing facilities: EnergySolutions EnergySolutions 1560 Bear Creek Rd 628 Gallaher Rd Oak Ridge, TN 37831 Kingston, TN 37763 EnergySolutions 1790 Dock Street Memphis, TN 38113			8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) ----NONE----			9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) Sogin Societa Gestione Impianti Nucleari Via Troino, 6 - 00184 Roma Individual facilities authorized to possess radioactive materials are listed on the attached page.	
7a. LIST FUNCTIONS PERFORMED/SERVICE PROVIDED Packaging for transport in accordance with applicable requirements			8a. INTERMEDIATE USE(S) ----NONE-----			9a. ULTIMATE END USE(S) Export authorization is requested as a contingency for return of non-conforming waste.	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS The requested export license is being sought to provide a contingency for the return of material imported under the associated import license in the unlikely event that it cannot be dispositioned under the EnergySolutions' Utah and Tennessee radioactive materials licenses (as amended). At this time it is not possible to estimate the quantities, volume, and activity of the materials that will need to be exported. It will be a very small fraction of the quantities which are specified in the associated import application. See continuation page.				10a. MAX TOTAL VOLUME/ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) The physical mass, volume, and activity values are approximately 10% of the values used in the corresponding import application.		10b. MAX ENRICHMENT OR WGT % Enriched Uranium is not expected to exceed 5% ²³⁵ U by weight.	10c. MAX ISOTOPE WGT (KG) Exports will be less than 5 kg ²³⁵ U over the proposed life of the license.
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) -----None-----							

Rec'd 9-17-07
 RB

NRC FORM 7
(4-2006)
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER <i>XW013</i>	DOCKET NUMBER <i>11005-710</i>	ADAMS ACCESSION NUMBER	<input checked="" 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.)

<p>12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT Sogin Societa Gestione Impianti Nucleari Via Troino, 6 - 00184 Roma</p> <p>Individual facilities authorized to possess radioactive materials are list on the attached page.</p>	<p>13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S) <u>EnergySolutions' U.S. licensed processing facilities.</u> EnergySolutions EnergySolutions 1560 Bear Creek Rd 628 Gallaher Rd Oak Ridge, TN 37831 Kingston, TN 37763</p> <p>EnergySolutions 1790 Dock Street Memphis, TN 38113</p>	<p>14. NAME(S) / ADDRESS(ES) OF ULTIMATE CONSIGNEE(S) EnergySolutions 423 West 300 South, Suite 200 Salt Lake City, UT 84101</p> <p>The disposal facility is located in Section 32 of Township 1 South and Range 11 West, Tooele County, Utah.</p>	
<p>12a. NRC EXPORT LICENSE NUMBER(S) (if applicable) Not applicable.</p>	<p>13a. LICENSE NUMBER(S) / EXPIRATION DATE(S) R-73008-C14 TN RML, exp 3/31/2014 R-73016-A15 TN RML, exp 1/31/2015 R-73006-F13 TN RML, exp 6/30/2013 R-79171-L16 TN RML, exp 12/31/2016</p>	<p>14a. LICENSE NUMBER(S) / EXPIRATION DATE(S) UT 2300249, Utah Radioactive Materials license (timely renewal) UT 2300478, Utah By-product (11e.2) Materials license (timely renewal)</p>	
	<p>13b. INTERMEDIATE USE(S) Inspection, sorting, cutting, sizing, processing in accordance with applicable Tennessee licenses and permits. Waste disposal from these operations will be conducted in accordance with applicable waste attribution models established under these licenses. Nonconforming materials identified at intermediate facilities may be returned to the original generator.</p>	<p>14b. INTERMEDIATE USE(S) None</p>	
<p>15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES Not applicable to export</p>	<p>15a. MAX TOTAL VOLUME/ ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) Not applicable to export</p>	<p>15b. MAX ENRICHMENT OR WGT % Not applicable to export</p>	<p>15c. MAX ISOTOPE WGT (KG) Not applicable to export</p>

16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)
-----None-----

PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, OR RENEWALS

<p>17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
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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 <i>Tye Rogan VP Compliance Permitting</i>	18b. SIGNATURE - AUTHORIZED OFFICIAL <i>Tye Rogan</i>	18c. DATE <i>9/14/07</i>
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*Rec'd 9-17-07
RB*

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

LICENSE NUMBER <i>XW013</i>	DOCKET NUMBER <i>11005710</i>	ADAMS ACCESSION NUMBER	<input checked="" 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)

Items 9 – Foreign Consignees

TRINO PWR – 260 MWe Westinghouse design Operation start 1964 Shutdown 1987	Trino Power Station Strada Statale 31/bis 13039 Trino (VC)	Davide Galli phone +39 0161 827250 fax +39 0161 805275 email galli@sogin.it
CAORSO BWR – 860 MWe AMN-GETSCO Operation start 1978 Shutdown 1986	Caorso Power Station Via E. Fermi 5/A 29012 Caorso (PC)	Renzo Guerzoni phone +39 0523 818306 fax +39 0523 818469 email guerzoni@sogin.it
GARIGLIANO BWR – 150 MWe G.E design Operation start 1964 Shutdown 1978	Garigliano Power Station Via Appia, km 160 + 400 81037 S Venditto – Sessa Aurunca (CE)	Severino Alfieri phone + 39 0823 055900 fax +39 0823 055934 email alfieri@sogin.it
LATINA Gas-Graphite – 153 MWe TNPG design Operation start 1963 Shutdown 1986	Latina Power Station Via Macchiagrande, 6 04010 Borgo Sabotino (LT)	Emilio Macci Phone +39 0773 647201 fax +39 0773 648455 email macci@sogin.it
Saluggia fuel research fuel fabrication (undergoing decommissioning)	Saluggia Facility Strada per Crescentino, snc 13040 Saluggia (VC)	Michele Gili phone +39 0161 653385 fax +39 0161 653221 email gili@sogin.it
Bosco Marengo Commercial fuel fab facility (undergoing decommissioning)	Bosco Marengo Facility S.S. 35bis dei Giovi, km 15 15062 Bosco Marengo (AL)	Nicola Cantoro phone +39 0131 490223 fax +39 0131 490315 email cantoro@sogin.it
Casaccia Research including fuel fab (undergoing decommissioning)	Casaccia Research Center Via Anguillarese, 301 00060 Santa Maria di Galeria (RM)	Vittorio Santinelli phone +39 06 99819369 fax +39 06 99819759 Email santinelli@sogin.it
Trisaia Pilot fuel processing plant (undergoing decommissioning)	Trisaia Facility S.S. 106 Ionica, km 419 + 500 75026 Rotondella (MT)	Tommaso Candelieri phone +39 0835 803221 fax +39 0835 803365

Item 10 – Description of Radioactive Materials, Sealed Sources, Nuclear Facilities, Equipment or Components

EnergySolutions understands that an export license is a requirement for issuance of an import license authorizing receipt of radioactive wastes. This application is submitted in conjunction with an application for an import license for the same facilities (as EnergySolutions' reference # IT-IM-2007-09). We are requesting a generic license to allow the return export of up to approximately 1,000 tons of radioactively contaminated waste material including metals, dry activity material such as wood, paper, and plastic, liquids such as aqueous and organic based fluids, ion exchange resins (treated and untreated). Total volume will not exceed 100,000 cubic feet (assuming a nominal density of 40 pounds per cubic foot). Although not directly applicable to handling in Italy, returned wastes will be classified in accordance with guidance from Part 61 of Title 10.

Rec'd 9-17-07
PB

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

LICENSE NUMBER	DOCKET NUMBER	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
XW013	11005710		

ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Item 10, continued

To minimize the potential for return shipments, waste descriptions and data for all candidate wastes will be carefully reviewed by a multi-disciplinary team to ensure compliance with the applicable acceptance criteria of our Tennessee and Utah facilities. Each shipment will be subject to individual review and approval prior to EnergySolutions authorizing import to our facilities.

Maximum activity requested for export is nominally 10% of the activity requested for import in application IT-IM-2007-09 as follows:

1	Atomic numbers #3 - 83	≤ 20 TBq,
2	tritium	≤ 40 TBq,
3	U-nat & Depleted U:	≤ 2 TBq (or approx 1.0+5 kg of source material)
4	Transuranics (except Pu):	≤ 2 TBq,
5	SNM (U and Pu)	≤ 0.35 kilograms, ^{235}U -equivalent (e.g. 1 g Pu = 1.75 g ^{235}U)

Rec'd 9-17-07
PB