

<b>FORM 540</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		<b>EnergySolutions, LLC</b>		5. SHIPPER -- NAME AND FACILITY <b>Cabrera Services for GE/UNC</b> <b>71 Shelton Ave.</b> <b>New Haven, CT 06511</b>			SHIPPER I.D. NUMBER <b>GE/UNC 17-10</b> <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) <b>FC</b>		7. FORM 540 AND 540A PAGE 1 OF 1 PAGE(S) FORM 541 AND 541A 1 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)			8. MANIFEST NUMBER (Use this number on all continuation pages)  <b>7321-01-0102</b>	
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) <b>800-424-9300</b>				Utah Generator Site Access Permit No. <b>0209001622</b>		SHIPMENT NUMBER <b>na</b>		9. CONSIGNEE - Name and Facility <b>EnergySolutions, LLC</b> <b>Clive Disposal Site (Bulk Waste Facility)</b> <b>Interstate 80, Exit 49</b> <b>Clive, UT 84029</b>			CONTACT <b>Security Department</b> TELEPHONE (Include Area Code) <b>(801)649-2175</b> DATE		
ORGANIZATION <b>Chemtrek contract # CCN3584</b>				CONTACT <b>Wade Fillingame</b>				TELEPHONE NUMBER (Include Area Code) <b>865-300-5789</b>		SIGNATURE -- <i>Authorized consignee acknowledging waste receipt</i>			
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST =====> <b>1</b>		6. CARRIER -- Name and Address <b>Greenfield Logistics</b> <b>8731 Sandy Parkway</b> <b>Suite 107</b> <b>Sandy, UT 84070</b>				EPA I.D. NUMBER <b>UTR000005728</b>		10. CERTIFICATION  This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.			
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====>		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		EPA MANIFEST NUMBER				SHIPPING DATE <b>06/13/2017</b>					TELEPHONE (Include Area Code) <b>801-676-1575</b>
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====>		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		EPA MANIFEST NUMBER				CONTACT <b>Shane Johansen</b>		DATE		SIGNATURE -- <i>Authorized carrier acknowledging waste receipt</i>	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES			16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
<b>RQ, UN 3077, Environmentally Hazardous Substance, solid, nos, 9, III (Asbestos) Soil and Debris</b>		<b>NA</b>		<b>na</b>	<b>Solid Oxides</b>	<b>U-234 U-235 U-238</b>			<b>2.5449E+01 (6.8778E-01)</b>		<b>NA</b>	<b>30700 LBS; 486 FT3</b>	<b>GFLU-002002</b>
FOR CONSIGNEE USE ONLY				20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material ___ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. TITLE: Upon acceptance at the disposal site by EnergySolutions, LLC, and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in EnergySolutions, LLC C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and EnergySolutions LLC's facility license. D. INDEMNIFICATION: Generator agrees to indemnify EnergySolutions, LLC, its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.									
___ Record Waste Description Inadequate ___ Contamination or Leakage Detected ___ Unexpected Exposure Rates Detected ___ Labels, Markings, etc. Inadequate ___ Container Integrity Inadequate ___ Other ___ No Violations Detected on this Shipment													

<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	<b>EnergySolutions, LLC</b>	<b>1. MANIFEST TOTALS</b>						<b>2. MANIFEST NUMBER</b> <b>7321-01-0102</b>		
	<b>NUMBER OF PACKAGES/ DISPOSAL CONTAINERS</b>	<b>NET WASTE VOLUME</b>	<b>NET WASTE WEIGHT</b>	<b>SPECIAL NUCLEAR MATERIAL (grams)</b>						
	<b>1</b>	m3 <b>13.7620</b> ft3 <b>486.0000</b>	kg <b>10568.7029</b> ton <b>11.6500</b>	U-233  <b>NP</b>	U-235  <b>1.1020E+01</b> <b>1 Container</b>	Pu  <b>NP</b>	Total  <b>1.1020E+01</b>			
	<b>ACTIVITY</b>						<b>SOURCE (kg)</b>			
	MBq	<b>2.5448E+01</b>	<b>NP</b>	<b>NP</b>	<b>NP</b>	<b>NP</b>	<b>NP</b>	(kg) <b>6.1402E-02</b>	<b>3. PAGE 1 OF 1 PAGE(S)</b>	
	mCi	<b>6.8778E-01</b>	<b>NP</b>	<b>NP</b>	<b>NP</b>	<b>NP</b>	<b>NP</b>	(tons) <b>6.7684E-05</b>	<b>4. SHIPPER NAME</b> <b>Cabrera Services for GE/UNC</b>	
								<b>SHIPMENT ID NUMBER</b> <b>GE/UNC 17-10</b>		

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION <small>(See Note 1 &amp; Note 1A)</small>	7. VOLUME <small>(m3) (ft3)</small>	8. WASTE AND CONTAINER WEIGHT <small>(kg) (ton)</small>	9. SURFACE RADIATION LEVEL <small>(mSv/hr) (mrem/hr)</small>	10. SURFACE CONTAMINATION <small>(MBq/100 cm2) (dpm/100cm2)</small>		11. WASTE DESCRIPTOR <small>(See Note 2 &amp; Note 2A)</small>	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER <small>(m3) (FT3)</small>	13. SOLIDIFICATION OR STABILIZATION MEDIA <small>(See Note 3)</small>	14. CHEMICAL DESCRIPTION  CHEMICAL FORM/ CHELATING AGENT	15. RADIOLOGICAL DESCRIPTION  INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT	RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA						WEIGHT % CHELATING AGENT IF > 0.1%	RADIONUCLIDES			pCi/gm
GFLU-002002/7321-01	2-B	13.7620	13925.2867	<1.0000E-03	<0.0000	<0.0000	29,22-HJL	13.7620	100 100	Oxides/none	na	U-234 [1.0373E-04 kg]	6.08520E+01	2.3795E+01	6.4312E-01	AU
		486.0000	15.3500	<1.0000E-01	<100.0000	<1000.0000		486.0000				U-235 [1.1020E+01 g]	2.25400E+00	8.8141E-01	2.3822E-02	
												<b>Subtotal</b>		<b>2.5448E+01</b>	<b>6.8778E-01</b>	
												<b>Total</b>				
												SNM [1.1020E+01 g]				
Shipment Totals		13.7620	13925.2867									Source [6.1402E-02 kg]		2.5448E+01	6.8778E-01	
		486.0000	15.3500													

**Note 1: Container Description Codes. For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."**

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other. Describe in Item 6, or additional page
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes. (Choose one code as may be applicable.)**

A Gondola
B Intermodal
C End-Dump
D Roll-off
E Seavan

**NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)**

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other. Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

**NOTE 2A: Specific Waste Descriptions (Choose all applicable codes.)**

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

**Note3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S," and the media vendor and brand name must also be identified**

**in Item 13. Code 100=NONE REQUIRED.**

**Solidification**

90. Cement	94. Vinyl Ester Styrene
91. Concrete (encapsulation)	99. Other. Describe in item 13, or additional page
92. Bitumen	
93. Vinyl Chloride	100. None Required.

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT**

**For Manifest # 7321-01-0102  
EnergySolutions, LLC**

<b><u>Isotope</u></b>	<b>Total Activity</b>	
	<b><u>(MBq)</u></b>	<b><u>(mCi)</u></b>
U-234	2.3796E+01	6.4312E-01
U-235	8.8140E-01	2.3822E-02
U-238	7.7113E-01	2.0841E-02