

<div>FORM 540</div> <div>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</div>			EnergySolutions, LLC			5. SHIPPER -- NAME AND FACILITY Cabrera Services for GE/UNC 71 Shelton Ave. New Haven, CT 06511			SHIPPER I.D. NUMBER GE/UNC 17-11		7. FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION			8. MANIFEST NUMBER (Use this number on all continuation pages) 7321-01-0103					
1. EMERGENCY TELEPHONE NUMBER 800-424-9300						Utah Generator Site Access Permit No. 0209001622		SHIPMENT NUMBER		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) FC		9. CONSIGNEE - Name and Facility EnergySolutions, LLC Clive Disposal Site Interstate 80, Exit 49 Clive, UT 84029			CONTACT Security Department				
ORGANIZATION Chemtrec contract # CCN3584						CONTACT Wade Fillingame		TELEPHONE NUMBER (Include Area Code) 865-300-5789		EPA I.D. NUMBER UTR000005728		SIGNATURE -- Authorized consignee acknowledging waste receipt			DATE				
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 =====		1		6. CARRIER -- Name and Address Greenfield Logistics 8731 Sandy Parkway Suite 107 Sandy, UT 84070			SHIPPING DATE 08/29/2017		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 =====>			EPA MANIFEST NUMBER		CONTACT Shane Johansen			SIGNATURE -- Authorized carrier acknowledging waste receipt		TELEPHONE (Include Area Code) 801-676-1575		DATE		AUTHORIZED SIGNATURE		TITLE		DATE	
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		
RQ, UN 3077, Environmentally Hazardous Substance, solid, nos, 9, III (Asbestos) Debris					NA		na	Solid Oxides	U-234	U-235	U-238	5.2020E+01	(1.4060E+00)	NA	32080 LBS; 486 FT3		ERRU-000312		
FOR CONSIGNEE USE ONLY					____ 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				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.										

FORM 541

EnergySolutions, LLC

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

CONTAINER AND WASTE DESCRIPTION

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

1. MANIFEST TOTALS

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS

NET WASTE VOLUME

NET WASTE WEIGHT

SPECIAL NUCLEAR MATERIAL (grams)

U-233

U-235

Pu

Total

1

m313.7620

kg11194.6604

NP

1.4360E+01

NP

1.4360E+01

ft3486.0000

ton12.3400

ACTIVITY

SOURCE (kg)

MBq

5.2021E+01

NP

NP

NP

NP

(kg)

5.5895E-02

mCi

1.4060E+00

NP

NP

NP

NP

(tons)

6.1614E-05

2. MANIFEST NUMBER

7321-01-0103

3. PAGE 1 OF 1 PAGE(S)

4. SHIPPER NAME

Cabrera Services for GE/UNC

SHIPMENT ID NUMBER

GE/UNC 17-11

DISPOSAL CONTAINER DESCRIPTION

5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)

6. CONTAINER DESCRIPTION

(See Note 1 & Note 1A)

7. VOLUME

(m3)(ft3)

8. WASTE AND CONTAINER WEIGHT

(kg)(ton)

9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)

10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100cm2)

ALPHABETAGAMMA

WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER

11. WASTE DESCRIPTOR

(See Note 2 & Note 2A)

12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)

13. SOLIDIFICATION OR STABILIZATION MEDIA

(See Note 3)

14. CHEMICAL DESCRIPTION

CHEMICAL FORM/ CHELATING AGENT

WEIGHT % CHELATING AGENT IF > 0.1%

15. RADIOLOGICAL DESCRIPTION

INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT

RADIONUCLIDESpCi/gmMBqmCi

ERRU-000312/7321-012-B13.762014551.2442<1.0000E-03<0.0000<0.000029,22-HJL13.7620100100Oxides/nonenaU-234[2.1871E-04 kg]1.21128E+025.0172E+011.3560E+00U-235[1.4360E+01 g]2.77200E+001.1481E+003.1031E-02U-238[5.5677E-02 kg]1.69100E+007.0041E-011.8930E-02Subtotal5.2021E+011.4060E+00TotalSNM[1.4360E+01 g]5.2021E+011.4060E+00Source[5.5895E-02 kg]Shipment Totals13.762014551.24425.2021E+011.4060E+00486.000016.0400

AU

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

1. Wooden Box or Crate

2. Metal Box

3. Plastic Drum or Pail

4. Metal Drum or Pail

5. Metal Tank or Liner

6. Concrete Tank or Liner

7. Polyethylene Tank or Liner

8. Fiberglass Tank or Liner

9. Demineralizer

10. Gas Cylinder

11. Bulk, Unpackaged Waste

12. Unpackaged Components

13. High Integrity Container

19. Other. Describe in Item 6, or additional page

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

21. Incinerator Ash

22. Soil

23. Gas

24. Oil

25. Aqueous Liquid

26. Filter Media

27. Mechanical Filter

28. EPA or State Hazardous

29. Demolition Rubble

30. Cation Ion-exchange Media

31. Anion Ion-exchange Media

32. Mixed Bed Ion-exchange Media

33. Contaminated Equipment

34. Organic Liquid (except oil)

35. Glassware or Labware

36. Sealed Source/Device

37. Paint or Plating

38. Evaporator Bottoms/Sludges/ Concentrates

39. Compactible Trash

40. Noncompactible Trash

41. Animal Carcass

42. Biological Material (except animal carcass)

43. Activated Material

59. Other. Describe in item 11, or additional page

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

91. Concrete (encapsulation)

92. Bitumen

93. Vinyl Chloride

94. Vinyl Ester Styrene

99. Other. Describe in item 13, or additional page

100. None Required.

FORM 541 (03-06)

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST
ISOTOPES REPORT

For Manifest # 7321-01-0103
EnergySolutions, LLC

<u>Isotope</u>	Total Activity	
	<u>(MBq)</u>	<u>(mCi)</u>
U-234	5.0171E+01	1.3560E+00
U-235	1.1482E+00	3.1031E-02
U-238	7.0041E-01	1.8930E-02