

Enclosure 13 to
LTR-RAC-20-94
Date: December 18, 2020

Enclosure 13

Response to Request for Additional Information
LTR-RAC-19-64, Manifests for HFSS#2 Soil Remediation



Westinghouse Electric Company
 Nuclear Fuel
 Columbia Fuel Fabrication Facility
 5801 Bluff Road
 Hopkins, South Carolina 29061
 USA

SCDHEC, BLWM
 Kim Kuhn
 2600 Bull Street
 Columbia, SC 29201

Direct tel: 803.647.1920
 Direct fax: 803.695.3964
 e-mail: joynerdp@westinghouse.com

Your ref:
 Our ref: LTR-RAC-19-64

August 8, 2019

Subject: Manifests for HF Spiking Station #2 Soil Remediation

Mrs. Kuhn:

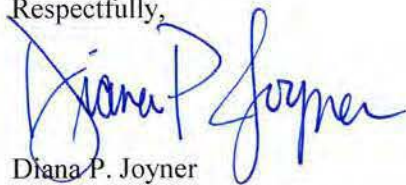
In accordance with the Department's letter dated March 7, 2019, the following summary of manifests is provided as a record of the soil remediation performed on HF Spiking Station #2. All of the soil removed during the remediation of the spiking station was transported by Hittman Transport Services and received by Energy Solutions, LLC Disposal Site in Clive Utah.

| Manifest/ Shipment Number | Description / # of drums (HF spiking station #2 unless otherwise noted) | Weight (lbs) | Shipping Date | Energy Solutions Received Date |
|---------------------------------|---|-----------------|------------------|-----------------------------------|
| 0857-08-0223 | 16 soil drums-spiking station; 8 soil drums-bollard project | 19,343 | 6/11/2019 | 7/2/2019 |
| 0857-08-0222 | 43 soil drums | 28,427 | 4/23/2019 | 5/21/2019 |
| 0857-08-0221 | 44 soil drums | 28,389 | 4/23/2019 | 5/21/2019 |
| 0857-08-0220 | 41 soil drums | 26,783 | 4/23/2019 | 5/21/2019 |
| 0857-08-0219 | 44 soil drums | 28,602 | 4/23/2019 | 05/21/2019 |
| 0857-08-0218 | 44 soil drums | 28,603 | 2/19/2019 | 03/26/2019 |
| 0857-08-0217 | 38 soil drums | 25,867 | 2/19/2019 | 03/26/2019 |
| 0857-08-0216 | 25 soil drums 18 concrete drums | 27,586 | 2/19/2019 | 03/26/2019 |
| 0857-08-0214* | 25 soil drums 11 concrete drums | 23,717 | 12/28/2018 | 1/25/2019 |
| 0857-08-0213 | 36 soil drums | 23,718 | 12/28/2018 | 1/25/2019 |
| 0857-08-0212 | 36 soil drums | 23,760 | 12/28/2018 | 1/25/2019 |
| 0857-08-0211 | 21 soil drums 15 concrete drums | 23,465 | 12/28/2018 | 1/25/2019 |

*Manifest number 0857-08-0215 was used to ship other low level radioactive materials from the site that are unrelated to the HFSS remediation.

Please contact me with any questions regarding the submitted information.

Respectfully,

A handwritten signature in blue ink that reads "Diana P. Joyner". The signature is fluid and cursive, with the first name "Diana" being the most prominent.

Diana P. Joyner
Principal Environmental Engineer
Westinghouse Electric Company, CFFF
803.497.7062 (m)

cc: E. Wills, EH&S Manager
N. Parr, Environmental Manager
D. Cauley, URRS Engineering Technician
ENOVIA Records

| | | | | | | | | | | | | | | | |
|---|--|----------------------|--|---|--|--|--|---|--|--|--|--|--|--|--|
| FORM 540 | | EnergySolutions, LLC | | 5. SHIPPER - NAME AND FACILITY Westinghouse Electric Co., LLC 5801 BLUFF RD HOPKINS, SC 29061 | | SHIPPER I.D. NUMBER 0857-08-0223 | | 7. FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION | | PAGE 1 OF 1 PAGE(S) 1 PAGE(S) None PAGE(S) None PAGE(S) | | 8. MANIFEST NUMBER (Use this number on all continuation pages) 0857-08-0223 | | | |
| UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | | | | | | | | | | | | | | |
| 1. EMERGENCY TELEPHONE NUMBER 1-800-424-9300 | | | | 2. IS THIS AN 'EXCLUSIVE USE' SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1 | | 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <small>If "Yes," provide Manifest Number #0000000000</small> | | EPA MANIFEST NUMBER | | 9. CONSIGNEE - Name and Facility EnergySolutions, LLC Clive Disposal Site Interstate 80, Exit 49 Clive, UT 84029 | | | |
| ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | | | CONTACT E.W. CAULEY JR | | SHIPMENT NUMBER 0857-08-0223 | | GENERATOR TYPE <input checked="" type="checkbox"/> (Specify) FC | | TELEPHONE NUMBER (Include Area Code) (803) 647-3903 | | CONTACT Transportation Compliance TELEPHONE (Include Area Code) (435) 894-0155 | | | |
| 6. CARRIER - Name and Address HITTMAN 1560 Deer Creek Rd Oak Ridge, TN 37930 | | | | EPA I.D. NUMBER TNR000034688 | | SHIPPING DATE 08/11/2019 | | TELEPHONE (Include Area Code) (866) 220-5817 | | DATE 6-11-19 | | SIGNATURE <i>[Signature]</i> Authorized consignee acknowledging waste receipt | | | |
| 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 | | | |
| UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted LLW soil (24 drums) | | | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-235 U-238 U-238 | | 4.3432E+02 (1.1738E+01) | | | |
| | | | | | | | | | | | | 17. LSA/SCO CLASS LSA-I | | | |
| | | | | | | | | | | | | 18. TOTAL WEIGHT OR VOLUME (Use appropriate units) 19343 LBS; 1300 FT3 | | | |
| | | | | | | | | | | | | 19. IDENTIFICATION NUMBER OF PACKAGE ESUU300492-0223 20FT SEAVANESU U300492 | | | |
| FOR CONSIGNEE USE ONLY The original signed manifest resides with: E.W. Cauley Jr 5801 Bluff Rd Hopkins, SC 29061 (803) 647-3903 | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> 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. | | | | | | | |

0857-08-0223

SEA/LAND CONTAINER INVENTORY LISTING

FORM NO.: CF-83-154
 REVISION: 1
 PAGE: 1 OF 1
 EFFECTIVE DATE: 02-05-04

CONTAINER BEING FILLED: ESU4300492

DATE BEGAN FILLING: 4.16.19

ALL WEIGHTS IN POUNDS

- Keep this record sheet in the desk in LLWB while this container is being filled.
- Forward to Engineering when input is complete.

| Items Added * | Gross Weight | Tare Weight | Net Weight | Total Accumulated Gross Weight REMINDER: move container to flatbed before 29,000 gross lbs. exceeded | Gms U235 | Operators initial and date each entry |
|--|--------------|-------------|------------|---|----------|---------------------------------------|
| Container Tare Weight | | 6640 | | 6640 | 169.0 | MR 4.16.19 |
| Drums added per pick list # 16 Soil drums | 7523 | | | 14,163 | 172.0 | MR 4.16.19 |
| Hoppers 8 bollard soil drums | 5180 | - | - | 19,343 | 1.0 | MR 4.16.19 |
| <p>Shipped off site 6.11.19 [Signature]</p> | | | | | | |
| Total Weight for Shipment | 19,343 | 6640 | 12,703 | | 173.0 | |

* Example: hoppers, drums, loose material, etc.

170.0

| FORM 540 | | EnergySolutions, LLC | | 5. SHIPPER -- NAME AND FACILITY | | | | SHIPPER I.D. NUMBER | | 7. FORM 540 AND 540A | | | 8. MANIFEST NUMBER | | | | |
|--|--|--|--|---|--|---------------------------------|--|---|--|--|--|-------------------|--|--|--|--|--|
| UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | | | Westinghouse Electric Co., LLC 8901 BLUFF RD HOPKINS, SC 29061 | | | | 0857-08-0222 | | 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) | | | 0857-08-0222 | | | | |
| | | | | Ulah Generator Site Access Permit No. 0207 001 421 | | SHIPMENT NUMBER 0857-08-0222 | | <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) FC | | 9. CONSIGNEE - Name and Facility EnergySolutions, LLC Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029 L132206 | | | CONTACT Transportation Compliance TELEPHONE (Include Area Code) (435)884-0155 DATE 5/21/19 | | | | |
| 1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 1-800-424-9300 | | | | CONTACT E.W. CAULEY JR | | | | TELEPHONE NUMBER (Include Area Code) (803) 847-3903 | | SIGNATURE -- Authorized consignee acknowledging waste receipt <i>E.W. Cauley Jr</i> | | | DATE 3/27/2019 | | | | |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST ===== 1 | | 6. CARRIER -- Name and Address HITTMAN 1560 Bear Creek Rd Oak Ridge, TN 37830 | | | | EPA I.D. NUMBER TNR000034686 | | 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. <i>E.W. Cauley Jr</i> | | | DATE 3/27/2019 | | | | |
| 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number ===== | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | EPA MANIFEST NUMBER | | | | CONTACT Jeff Packett | | AUTHORIZED SIGNATURE E.W. Cauley JR See consignee block below | | | DATE 3/27/2019 | | | | |
| 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 | |
| UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted LLW soil (43 soil drums) | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-235 U-236 U-238 | | 7.3326E+02 (1.9818E+01) | | LSA-I | | 28427 LBS; 1300 FT3 | | ESUU300001-0222 20FT SEAVAN/ESU U300001 | |
| FOR CONSIGNEE USE ONLY The original signed manifest resides with: E.W. Cauley Jr 8901 Bluff Rd Hopkins, SC 29061 (803) 847-3903 | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> 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. | | | | | | | | | |

0857-08-0222

SEA/LAND CONTAINER INVENTORY LISTING

| | |
|-----------------|-----------|
| FORM NO.: | CF-83-154 |
| REVISION: | 1 |
| PAGE: | 1 OF 1 |
| EFFECTIVE DATE: | 02-05-04 |

CONTAINER BEING FILLED: ESuu 30001

DATE BEGAN FILLING: 1-22-19

ALL WEIGHTS IN POUNDS

- Keep this record sheet in the desk in LLWB while this container is being filled.
- Forward to Engineering when input is complete.

| Items Added * | Gross Weight | Tare Weight | Net Weight | Total Accumulated Gross Weight REMINDER: move container to flatbed before 29,000 gross lbs. exceeded | Gms U235 | Operators initial and date each entry |
|--|--------------|-------------|------------|---|----------|---------------------------------------|
| Container Tare Weight | | 7540 | | 7540 | | MR 1-22-19 |
| Drums added per pick list # 15 soil drums | 7381 | | | 14,921 | 135.0 | MR 1-23-19 |
| Hoppers 13 soil drums | 6267 | | - | 21,188 | 55.0 | MR 1-23-19 |
| 15 soil drums | 7239 | | - | 28,427 | 97.0 | MR 1-23-19 |
| <p>Shipped to site 04.23.19 DZ</p> | | | | | | |
| Total Weight for Shipment | | 7540 | 20,887 | 28,427 | 287 | |

* Example: hoppers, drums, loose material, etc.

| FORM 540 | | EnergySolutions, LLC | | 5. SHIPPER - NAME AND FACILITY | | | | SHIPPER I.D. NUMBER | | 7. FORM 540 AND 540A | | | 8. MANIFEST NUMBER | | | | |
|--|--|---|--|---|--|---|--|--|--|--|---|-------------------|---|--|--|--|--|
| UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | | | Westinghouse Electric Co., LLC 5801 BLUFF RD HOPKINS, SC 29081 | | | | 0857-08-0221 | | 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) | | | 0857-08-0221 | | | | |
| | | | | Utah Generator Site Access Permit No. 0207 001 421 | | SHIPMENT NUMBER 0857-08-0221 | | <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) FC | | 9. CONSIGNEE - Name and Facility EnergySolutions, LLC Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029 <i>6132205</i> | | | CONTACT Transportation Compliance TELEPHONE (Include Area Code) (435)884-0155 DATE 5/21/19 | | | | |
| 1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 1-800-424-9300 | | | | CONTACT E.W. CAULEY JR | | TELEPHONE NUMBER (Include Area Code) (803) 647-3903 | | EPA I.D. NUMBER TNR00034886 | | | SIGNATURE -- Authorized consignee acknowledging waste receipt <i>[Signature]</i> | | | | | | |
| ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | | | 6. CARRIER - Name and Address HITTMAN 1869 Bear Creek Rd Oak Ridge, TN 37830 | | SHIPPING DATE 04/23/2019 | | 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. <i>[Signature]</i> | | | DATE 5/21/19 | | | | | | |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1 | | EPA MANIFEST NUMBER | | | | CONTACT Jeff Packott | | AUTHORIZED SIGNATURE E.W. Cauley JR Sea consignee block below | | | | | | | |
| 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If "Yes," provide Manifest Number _____ | | EPA MANIFEST NUMBER | | | | SIGNATURE -- Authorized carrier acknowledging waste receipt | | DATE | | | TITLE URRS Engineering | | | | | | |
| 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 | |
| UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted LLW soil (44 soil drums) | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-236 U-238 | | 1.6148E+03 (4.3641E+01) | | LSA-I | | 28389 LBS; 1300 FT3 | | ESUU300502-0221 20FT SEAVAN/ESU U300502 | |
| FOR CONSIGNEE USE ONLY The original signed manifest resides with: E.W. Cauley Jr 5801 Bluff Rd Hopkins, SC 29081 (803) 647-3903 | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> 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. | | | | | | | | | |

0857-08-0221

SEA/LAND CONTAINER INVENTORY LISTING

| | |
|-----------------|-----------|
| FORM NO.: | CF-83-154 |
| REVISION: | 1 |
| PAGE: | 1 OF 1 |
| EFFECTIVE DATE: | 02-05-04 |

CONTAINER BEING FILLED: ESUN300502

DATE BEGAN FILLING: 1-16-19

ALL WEIGHTS IN POUNDS

- Keep this record sheet in the desk in LLWB while this container is being filled.
- Forward to Engineering when input is complete.

| Items Added * | Gross Weight | Tare Weight | Net Weight | Total Accumulated Gross Weight REMINDER: move container to flatbed before 29,000 gross lbs. exceeded | Gms U235 | Operators initial and date each entry |
|--|--------------|-------------|------------|---|----------|---------------------------------------|
| Container Tare Weight | | 7100 | | 7100 | | MR 1-16-19 |
| Drums added per pick list # 15 soil drums | 7320 | | | 14,420 | 309.0 | MR 1-16-19 |
| Hoppers 14 soil drums | 6636 | - | - | 21,056 | 165.0 | MR 1-17-19 |
| 15 soil drums | 7333 | - | - | 28,389 | 158.0 | MR 1-17-19 |
| <p>Shipped off site 4.23.19 <i>[Signature]</i></p> | | | | | | |
| Total Weight for Shipment | | 7100 | 21,289 | 28,389 | 632.0 | |

* Example: hoppers, drums, loose material, etc.

| FORM 540 | | EnergySolutions, LLC | | 5. SHIPPER - NAME AND FACILITY | | SHIPPER I.D. NUMBER | | 7. FORM 540 AND 540A | | 8. MANIFEST NUMBER | | | | | | | |
|--|--|--|--|---|--|---|--|--|--|---|--|--|--|--|--|--|--|
| UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | | | Westinghouse Electric Co., LLC 5801 BLUFF RD HOPKINS, SC 29061 | | 0857-08-0220 | | PAGE 1 OF 1 PAGE(S) | | 0857-08-0220 | | | | | | | |
| | | | | Utlah Generator Site Access Permit No. 0207 091 421 | | SHIPMENT NUMBER 0857-08-0220 | | <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) FG | | | | FORM 541 AND 541A 1 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S) | | | | | |
| 1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 1-800-424-9300 | | | | CONTACT E.W. CAULEY JR | | TELEPHONE NUMBER (Include Area Code) (803) 647-3903 | | 9. CONSIGNEE - Name and Facility EnergySolutions, LLC Cliva Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029 L132204 | | CONTACT Transportation Compliance TELEPHONE (Include Area Code) (435)884-0155 DATE 5/21/19 | | | | | | | |
| ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | | | 6. CARRIER -- Name and Address HITTMAN 1560 Bear Creek Rd Oak Ridge, TN 37830 | | EPA I.D. NUMBER TNR00034886 | | SIGNATURE -- Authorized consignee acknowledging waste receipt E.W. CAULEY JR | | 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. | | | | | | | |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1 | | CONTACT Jeff Packett | | SHIPPING DATE 04/23/2019 | | AUTHORIZED SIGNATURE E.W. Cauley JR See consignor block below | | DATE 3/27/2019 | | | | | | | |
| 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====> | | EPA MANIFEST NUMBER | | SIGNATURE -- Authorized carrier acknowledging waste receipt | | TELEPHONE (Include Area Code) 1(865) 220-5817 | | TITLE URRS Engineering | | DATE 3/27/2019 | | | | | | | |
| 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 | |
| UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted LLW soil (41 soil drums) | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-235 U-236 U-238 | | 6.6173E+02 (1.7884E+01) | | LSA-I | | 26783 LBS; 1300 FT3 | | ESUU300602-0220 20FT SEAVAN/ESU U300602 | |
| FOR CONSIGNEE USE ONLY The original signed manifest resides with: E.W. Cauley Jr 5801 Bluff Rd Hopkins, SC 29061 (803) 647-3993 | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment | | | | 20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is (or) 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. | | | | | | | | | |

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| FORM 540 EnergySolutions, LLC UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | 5. SHIPPER -- NAME AND FACILITY Westinghouse Electric Co., LLC 5801 BLUFF RD HOPKINS, SC 29061 | | SHIPPER I.D. NUMBER 0857-08-0219 <input type="checkbox"/> COLLECTOR <input checked="" type="checkbox"/> PROCESSOR | | 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) 0857-08-0219 | | | | | | | | | |
| 1. EMERGENCY TELEPHONE NUMBER <small>(Include Area Code)</small> 1-800-424-9300 | | Utah Generator Site Access Permit No. 0207 001 421 SHIPMENT NUMBER 0857-08-0219 | | <input checked="" type="checkbox"/> GENERATOR TYPE <small>(Specify) PC</small> | | 9. CONSIGNEE -- Name and Facility EnergySolutions, LLC Clive Disposal Site Interstate 80, Exit 49 Clive, UT 84029 | | CONTACT Transportation Compliance TELEPHONE <small>(Include Area Code)</small> (435)884-0155 DATE 5/21/19 | | | | | | | | | |
| ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | CONTACT E.W. CAULEY JR | | TELEPHONE NUMBER <small>(Include Area Code)</small> (803) 547-3903 | | SIGNATURE -- Authorized consignee acknowledging waste receipt <i>E.W. Cauley Jr</i> | | DATE 5/21/19 | | | | | | | | | |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1 | | 6. CARRIER -- Name and Address HITTMAN 1500 Bear Creek Rd Oak Ridge, TN 37830 | | EPA I.D. NUMBER TNR000034686 | | 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 in accordance with 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 <small>*****</small> | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | EPA MANIFEST NUMBER | | CONTACT Jeff Peckitt | | SIGNATURE -- Authorized carrier acknowledging waste receipt <i>E.W. Cauley Jr</i> | | | | | | | | | |
| 11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION <small>(Including proper shipping name, hazard class, UN ID number, and any additional information)</small> | | 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 <small>(Use appropriate units)</small> | | 19. IDENTIFICATION NUMBER OF PACKAGE | |
| UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted LLW soil (44 soil drums) | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-235 U-238 U-238 | | 1.4691E+03 (3.9706E+01) | | LSA-I | | 28602 LBS; 1300 FT3 | | ESUU300311-0219 20FT SEAVAN/ESU U300311 | |
| FOR CONSIGNEE USE ONLY The original signed manifest resides with: E.W. Cauley Jr 5801 Bluff Rd Hopkins, SC 29061 (803) 647-3903 | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment | | | | 20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material <u> </u> 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-deposal 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. | | | | | | | | | |

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| FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | Energy Solutions, LLC Westinghouse Electric Co., LLC 5001 Bluff Rd Hopkins, SC 29061 | | SHIPPER I.D. NUMBER 0857-08-0218 <input type="checkbox"/> COLLECTOR <input checked="" type="checkbox"/> PROCESSOR | | 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) | | B. MANIFEST NUMBER (Use this number on all continuation pages) 0857-08-0218 | |
| 1. EMERGENCY TELEPHONE NUMBER 1-800-424-9300 | | Utah Generator Site Access Permit No. 0207 001 421 | | SHIPMENT NUMBER 0857-08-0218 | | <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) FG | | 9. CONSIGNEE - Name and Facility EnergySolutions, LLC Clive Disposal Site Interstate 80, Exit 49 Clive, UT 84029 | |
| ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | CONTACT E.W. CAULEY JR | | TELEPHONE NUMBER (Include Area Code) (803) 647-3903 | | EPA I.D. NUMBER TNR000034886 | | CONTACT Transportation Compliance TELEPHONE (Include Area Code) (435)884-0155 | |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1 | | 6. CARRIER - Name and Address HITTRAN 1900 Bear Creek Rd Oak Ridge, TN 37830 | | SIGNATURE - Authorized consignee acknowledging waste receipt <i>David Evans</i> | | DATE 3/26/2019 | |
| 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number _____ | | EPA MANIFEST NUMBER | | CONTACT Jeff Packatt | | TELEPHONE (Include Area Code) (803) 220-5817 | | 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 properly classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 40 CFR Parts 261 and 268, or equivalent state regulations. | |
| 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 | |
| UN 2912, Radioactive material, low specific activity (LSA-1), 7, Fissile Excepted LLW soil | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-235 U-236 U-238 | |
| | | | | | | | | TOTAL PACKAGE ACTIVITY MBq (mCi) | |
| | | | | | | | | 1.8540E+03 (5.0109E+01) | |
| | | | | | | | | 17. LSA/SGG CLASS | |
| | | | | | | | | LSA-1 | |
| | | | | | | | | 18. TOTAL WEIGHT OR VOLUME (Use appropriate units) | |
| | | | | | | | | 28603 LBS; 1300 FT3 | |
| | | | | | | | | 19. IDENTIFICATION NUMBER OF PACKAGE | |
| | | | | | | | | 0857-08-0218 | |
| | | | | | | | | 20FT SEA/AN/ESU U300004 | |
| FOR CONSIGNEE USE ONLY The original signed manifest resides with: E.W. Cauley Jr 5001 Bluff Rd Hopkins, SC 29061 (803) 647-3903 | | | | 20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material ___ in (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. | | | | | |
| | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment | | | | | |

SEA/LAND CONTAINER INVENTORY LISTING

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|-----------------|-----------|
| FORM NO.: | CF-83-154 |
| REVISION: | 1 |
| PAGE: | 1 OF 1 |
| EFFECTIVE DATE: | 02-05-04 |

CONTAINER BEING FILLED: ESUu30004

DATE BEGAN FILLING: 01-09-18

ALL WEIGHTS IN POUNDS

- Keep this record sheet in the desk in LLWB while this container is being filled.
- Forward to Engineering when input is complete.

| Items Added * | Gross Weight | Tare Weight | Net Weight | Total Accumulated Gross Weight REMINDER: move container to flatbed before 29,000 gross lbs. exceeded | Gms U235 | Operators initial and date each entry |
|--|--------------|-------------|------------|---|----------|---------------------------------------|
| Container Tare Weight | | 7320 | | 7320 | | NE 01-09-18 |
| Drums added per pick list # 15 soil drums | 7188 | | | 14,508 | 162.0 | KD 1-14-18 |
| Hoppers 15 soil drums | 7321 | - | - | 21,829 | 268.0 | KD 1-14-18 |
| 14 soil drums | 6774 | | | 28,603 | 292.0 | KD 1-14-18 |
| <p>Shipped off site 2/19/18 JZ</p> | | | | | | |
| Total Weight for Shipment | | 7320 | 21,283 | 28,603 | 722 | |

* Example: hoppers, drums, loose material, etc.

H1RX 23

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|--|--|--|--|---|--|---|--|--|--|---------------------------------------|--|-------------------|--|--|--|--|--|
| FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | EnergySolutions, LLC 5. SHIPPER - NAME AND FACILITY Westinghouse Electric Co., LLC 5801 BLUFF RD HOPKINS, SC 29881 | | SHIPPER I.D. NUMBER 0857-08-0217 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR | | 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) 0857-08-0217 | | | | | | | | | |
| 1. EMERGENCY TELEPHONE NUMBER 1-800-424-9300 <small>(Include Area Code)</small> | | Utah Generator Site Access Permit No. 0207 604 421 | | SHIPMENT NUMBER 0857-08-0217 | | 9. CONSIGNEE - Name and Facility EnergySolutions, LLC Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029 1131816 | | CONTACT Transportation Compliance TELEPHONE (Include Area Code) (435)884-0155 DATE 3/26/2019 | | | | | | | | | |
| ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | CONTACT E.W. CAULEY JR | | TELEPHONE NUMBER (Include Area Code) (803) 647-3803 | | EPA I.D. NUMBER TNR000034686 | | SIGNATURE - Authorized consignee acknowledging waste receipt <i>E.W. Cauley Jr</i> | | | | | | | | | |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1 | | 6. CARRIER - Name and Address HITTMAN 1560 Bear Creek Rd Oak Ridge, TN 37830 | | SHIPPING DATE 02/19/2019 | | 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. <i>E.W. Cauley Jr</i> | | | | | | | | | |
| 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====> | | EPA MANIFEST NUMBER | | CONTACT Jeff Peckott | | TELEPHONE (Include Area Code) 1(866) 220-5817 | | AUTHORIZED SIGNATURE E.W. Cauley JR See container block below | | | | | | | | | |
| 11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION <small>(including proper shipping name, hazard class, UN ID number, and any additional information)</small> | | 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 <small>(Use appropriate units)</small> | | 19. IDENTIFICATION NUMBER OF PACKAGE | |
| UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted LLW soil | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-235 U-238 U-238 | | 4.8533E+02 (1.3117E+04) | | LSA-I | | 25667 LBS; 1300 FT3 | | 0857-08-0217 20FT SEAVANESU U300505 | |
| FOR CONSIGNEE USE ONLY The original signed manifest resides with: E.W. Cauley Jr 5801 Bluff Rd Hopkins, SC 29881 (803) 647-3803 | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment | | | | 20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is (or) 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. | | | | | | | | | |

0857-08-0217

SEA/LAND CONTAINER INVENTORY LISTING

FORM NO.: CF-83-154
 REVISION: 1
 PAGE: 1 OF 1
 EFFECTIVE DATE: 02-05-04

CONTAINER BEING FILLED: ESUU300505

DATE BEGAN FILLING: 12.11.18

ALL WEIGHTS IN POUNDS

- Keep this record sheet in the desk in LLWB while this container is being filled.
- Forward to Engineering when input is complete.

| Items Added * | Gross Weight | Tare Weight | Net Weight | Total Accumulated Gross Weight REMINDER: move container to flatbed before 29,000 gross lbs. exceeded | Gms U235 | Operators initial and date each entry |
|---|--------------|-------------|------------|---|----------|---------------------------------------|
| Container Tare Weight | | 7560 | | 7560 | | MR 12.11.18 |
| Drums added per pick list # 38 soil drums | 18307 | | | 25,867 | 189.0 | MR 12.11.18 |
| Hoppers | | | | | | |
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| Total Weight for Shipment | | 7560 | 18,307 | 25,867 | | |

Shipped by site 2/19/19

* Example: hoppers, drums, loose material, etc.

H.Rx 23

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|---|--|---|--|---|--|--|--|---|--|---|--|-------------------|--|---|--|--------------------------------------|--|
| FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | Shipper - NAME AND FACILITY Westinghouse Electric Co., LLC 5801 BLUFF RD HCPKINS, SC 29061 | | SHIPPER ID. NUMBER 0857-08-0218 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR | | 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) 0857-08-0218 | | | | | | | | | |
| 1. EMERGENCY TELEPHONE NUMBER 1-800-424-9300 | | Utah Generator Site Access Permit No. 0207 001 421 | | SHIPMENT NUMBER 0857-08-0218 | | 9. CONSIGNEE - Name and Facility EnergySolutions, LLC Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029 | | CONTACT Transportation Compliance TELEPHONE (Include Area Code) (435)884-0155 | | | | | | | | | |
| ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | CONTACT E.W. CAULEY JR. | | TELEPHONE NUMBER (Include Area Code) (803) 847-3903 | | SIGNATURE - Authorized consignee acknowledging waste receipt <i>And Eric</i> | | DATE 3/26/2019 | | | | | | | | | |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1 | | 6. CARRIER - Name and Address HITTMAN 1640 Bear Creek Rd Oak Ridge, TN 37830 | | EPA I.D. NUMBER TNR00034808 | | 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 Jeff Packett | | TELEPHONE (Include Area Code) 1(865) 228-5917 | | DATE 3-19-19 | | | | | | | | | |
| SIGNATURE - Authorized carrier acknowledging waste receipt <i>Jeff Packett</i> | | AUTHORIZED SIGNATURE E.W. Cauley Jr | | TITLE See consignee block below | | URRS Engineering | | DATE 1/20/2019 | | | | | | | | | |
| 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 | |
| UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted LLW soil | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-235 U-236 U-238 | | 7.8572E+02 (2.1236E+01) | | LSA-I | | 27586 LBS; 1300 FT3 | | ESUU300222 20FT SEAVAN | |
| FOR CONSIGNEE USE ONLY The original signed manifest resides with: E.W. Cauley Jr 5801 Bluff Rd Hopkins, SC 29061 (803) 847-3903 | | | | 20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is (or) 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. | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment | | | | | | | | | |

0857-08-0216

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|-----------------|-----------|
| FORM NO.: | CF-83-154 |
| REVISION: | 1 |
| PAGE: | 1 OF 1 |
| EFFECTIVE DATE: | 02-05-04 |

SEA/LAND CONTAINER INVENTORY LISTING

CONTAINER BEING FILLED: ESU 300222

DATE BEGAN FILLING: 01-04-19

ALL WEIGHTS IN POUNDS

- Keep this record sheet in the desk in LLWB while this container is being filled.
- Forward to Engineering when input is complete.

| Items Added * | Gross Weight | Tare Weight | Net Weight | Total Accumulated Gross Weight REMINDER: move container to flatbed before 29,000 gross lbs. exceeded | Gms U235 | Operators initial and date each entry |
|--|--------------|-------------|------------|---|----------|---------------------------------------|
| Container Tare Weight | | 7460 | | 7460 | | NR 1-4-19 |
| Drums added per pick list # 18 concrete drums | 8142 | | | 15,602 | 45.99 | NR 1-4-19 |
| Hoppers 25 soil drums | 11,984 | - | - | 27,586 | 260.00 | NR 1-4-19 |
| <p style="font-size: 2em; font-family: cursive;">Shipped to site 2/14/19</p> | | | | | | |
| Total Weight for Shipment | | 7460 | 20,126 | 27,586 | 305.99 | |

* Example: hoppers, drums, loose material, etc.

| FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | EnergySolutions, LLC | | SHIPPER NAME AND FACILITY Westinghouse Electric Co., LLC 5901 BLUFF RD. HOPKINS, SC 29061 | | SHIPPER I.D. NUMBER 0857-08-0214 | | 7. FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION | | PAGE 1 OF 1 PAGE(S) 1 PAGE(S) None PAGE(S) None PAGE(S) | | 8. MANIFEST NUMBER (Use this number on all continuation pages) 0857-08-0214 | | | | | | | |
|---|--|--|--|---|--|---|--|--|--|---|--|---|--|-------------------|--|--|--|--------------------------------------|--|
| 1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 1-800-424-9300 | | | | Utah Generator-Site Access Permit No. 0207 001421 | | SHIPMENT NUMBER 0857-08-0214 | | 9. CONSIGNEE - Name and Facility EnergySolutions, LLC Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029 | | CONTACT Transportation Compliance TELEPHONE (Include Area Code) (435)884-0166 | | DATE 1/25/19 | | | | | | | |
| ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | | | CONTACT E.W. CAULEY JR. | | TELEPHONE NUMBER (Include Area Code) (803) 647-3993 | | EPA I.D. NUMBER TNR000034688 | | SIGNATURE - Authorized consignee acknowledging waste receipt <i>[Signature]</i> | | DATE 1/25/19 | | | | | | | |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1 | | 6. CARRIER - Name and Address JITMAN 1600 Donny Creek Rd Oak Ridge, TN 37830 | | EPA I.D. NUMBER TNR000034688 | | SHIPPING DATE 12/28/2018 | | 10. CERTIFICATION This is to certify that the herein named material(s) 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 material(s) 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. <i>[Signature]</i> | | DATE 12/28/2018 | | | | | | | |
| 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number: _____ <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | | | EPA MANIFEST NUMBER | | CONTACT Jeff Packett | | TELEPHONE (Include Area Code) (865) 220-6817 | | AUTHORIZED SIGNATURE E.W. Cauley Jr. See consignee block below. | | DATE 12/28/2018 | | | | | | | |
| 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 | |
| UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted, LLW soil | | | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-236 U-238 U-238 | | 4.1533E+02 (1.1225E+01) | | LSA-I | | 28436 LBS; 1300 FT ³ | | 0857-08-0214 | |
| | | | | | | | | | | | | | | | | 20FT SEAVANESU U300129 | | | |
| FOR CONSIGNEE USE ONLY The original signed manifest resides with: E.W. Cauley Jr 5901 Bluff Rd Hopkins, SC 29061 (803) 647-3993 | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment | | | | 20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents and warrants that Waste Material <input checked="" type="checkbox"/> is (or) <input 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. | | | | | | | | | | | |

0857-08-0214

SEA/LAND CONTAINER INVENTORY LISTING

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| FORM NO.: | CF-83-154 |
| REVISION: | 1 |
| PAGE: | 1 OF 1 |
| EFFECTIVE DATE: | 02-05-04 |

CONTAINER BEING FILLED: ES44 300129

DATE BEGAN FILLING: 12.4.18

ALL WEIGHTS IN POUNDS

- Keep this record sheet in the desk in LLWB while this container is being filled.
- Forward to Engineering when input is complete.

| Items Added * | Gross Weight | Tare Weight | Net Weight | Total Accumulated Gross Weight REMINDER: move container to flatbed before 29,000 gross lbs. exceeded | Gms U235 | Operators initial and date each entry |
|--|--------------|-------------|------------|---|----------|---------------------------------------|
| Container Tare Weight | | 6680 | | 6680 | | NR 12.4.18 |
| Drums added per pick list # 11 DSU 402 | 5142 | | | 11,822 | 13.97 | NR 12.4.18 |
| Hoppers 25 dirt drums | 11,895 | - | - | 23,717 | 147.77 | NR 12.4.18 |
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| Total Weight for Shipment | | 6680 | 17,037 | 23,717 | 161.74 | |

Shipped
off site
12/28/18
[Signature]

* Example: hoppers, drums, loose material, etc.

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|--|--|---|--|---|--|---|--|--|--|--|--|--------------------------|--|---|--|---|--|
| FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER Energy Solutions, LLC | | 3. SHIPPER - NAME AND FACILITY Westinghouse Electric Co., LLC 8801 BLUFF RD HOPKINS, SC 29061 | | SHIPPER I.D. NUMBER 0857-08-0213 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR | | 7. FORM 540 AND 540A PAGE 1 OF 1 PAGE(S) FORM 541 AND 541A PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S) | | 8. MANIFEST NUMBER (Use this number on all continuation pages) 0857-08-0213 | | | | | | | | | |
| 1. EMERGENCY TELEPHONE NUMBER 1-800-424-9300 <small>(Include Area Code)</small> | | 4. Utah Generator Site Access Permit No. 0207 001 421 | | SHIPMENT NUMBER 0857-08-0213 | | <input checked="" type="checkbox"/> GENERATOR TYPE <small>(Specify)</small> FC | | 9. CONSIGNEE - Name and Facility Energy Solutions, LLC Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84028 1.31466 | | | | | | | | | |
| ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | CONTACT E.W. CAULEY JR. | | TELEPHONE NUMBER <small>(Include Area Code)</small> (603) 647-3803 | | EPA I.D. NUMBER TNR000034686 | | SIGNATURE - Authorized consignee acknowledging waste receipt <i>[Signature]</i> DATE 1/25/19 | | | | | | | | | |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1 | | 5. CARRIER - Name and Address HITTMAN 1580 Bear Creek Rd Oak Ridge, TN 37830 | | SHIPPING DATE 12/28/2018 | | 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 required in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations. <i>[Signature]</i> AUTHORIZED SIGNATURE E.W. Cauley Jr. See conditions block below | | | | | | | | | |
| 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <small>If "Yes," provide Manifest Number</small> | | EPA MANIFEST NUMBER | | CONTACT Jeff Peckett | | TELEPHONE <small>(Include Area Code)</small> (603) 229-8817 | | DATE 12/12/2018 | | | | | | | | | |
| 11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION <small>(Including proper shipping name, hazard class, UN ID number, and any additional information)</small> | | 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 <small>(Use appropriate units)</small> | | 19. IDENTIFICATION NUMBER OF PACKAGE | |
| UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted, LLW soil | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-235 U-236 U-238 | | 2.8761E+02 (7.7731E+00) | | LSA-I | | 28436 LBS; 1300 FT3 | | 0857-08-0213 20FT SEAVAN/ESU U300466 | |
| FOR CONSIGNEE USE ONLY This manifest is used to certify that the waste material is in accordance with the following conditions: E.W. Cauley Jr. 8801 Bluff Rd Hopkins, SC 29061 (803) 647-3803 | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment | | | | 20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material <u> </u> 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 result 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. | | | | | | | | | |

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| FORM NO.: | CF-83-154 |
| REVISION: | 1 |
| PAGE: | 1 OF 1 |
| EFFECTIVE DATE: | 02-05-04 |

SEA/LAND CONTAINER INVENTORY LISTING

CONTAINER BEING FILLED: ESU4300466

DATE BEGAN FILLING: 11-28-18

ALL WEIGHTS IN POUNDS

- Keep this record sheet in the desk in LLWB while this container is being filled.
- Forward to Engineering when input is complete.

| Items Added * | Gross Weight | Tare Weight | Net Weight | Total Accumulated Gross Weight REMINDER: move container to flatbed before 29,000 gross lbs. exceeded | Gms U235 | Operators initial and date each entry |
|--|--------------|-------------|------------|---|----------|---------------------------------------|
| Container Tare Weight | | 6600 | | 6600 | | KD 11-28-18 |
| Drums added per pick list # 17,118 36 | 17,118 | | | 23,718 | 56.60 | KD 11-28-18 |
| Hoppers KD 11-28-18 | | | | | | |
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| Total Weight for Shipment | | 6600 | 17,118 | 23,718 | | |

Shipped
 by site 12/28/18
 [Signature]

* Example: hoppers, drums, loose material, etc.

| FORM 540 | | Energy Solutions, LLC | | SHIPPER NAME AND FACILITY | | SHIPPER I.D. NUMBER | | 7. FORM 540 AND 540A | | 8. MANIFEST NUMBER | | | | | | | |
|---|--|---|--|--|--|---|--|--|--|---|--|---|--|---|--|--|--|
| UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | | | Westinghouse Electric Co., LLC 5801 BLUFF RD HOPKINS, SC 29061 | | 0857-08-0212 | | PAGE 1 OF 1 PAGE(S) FORM 541 AND 541A FORM 542 AND 542A None PAGE(S) None PAGE(S) | | (Use this number on all continuation pages) 0857-08-0212 | | | | | | | |
| | | | | 1. EMERGENCY TELEPHONE NUMBER 1-800-424-9300 <small>(Include Area Code)</small> | | 2. UNIFORM Generator Site Access Permit No. 0207 001 421 | | SHIPMENT NUMBER 0857-08-0212 | | <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE <small>(Specify) FC</small> | | 9. CONSIGNEE - Name and Facility Energy Solutions, LLC Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029 <i>L131465</i> | | CONTACT Transportation Compliance TELEPHONE <small>(Include Area Code)</small> (435) 884-0155 DATE <i>1/25/19</i> | | | |
| ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | | | CONTACT E.W. CAULEY JR. | | EPA I.D. NUMBER TNRR00034889 | | SIGNATURE <i>E.W. Cauley Jr.</i> <small>Authorized consignee acknowledging waste receipt</small> | | DATE <i>1/25/19</i> | | | | | | | |
| 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST <i>4</i> | | 5. CARRIER - Name and Address HITIMAN 1600 Bear Creek Rd Oak Ridge, TN 37830 | | SHIPPING DATE <i>12/28/2018</i> | | 10. CERTIFICATION <small>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.</small> <i>E.W. Cauley Jr.</i> | | AUTHORIZED SIGNATURE E.W. Cauley Jr. <small>See consignor block below</small> | | TITLE URRS Engineering | | DATE <i>12/12/2018</i> | | | |
| 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <small>If "Yes," provide Manifest Number</small> | | | | EPA MANIFEST NUMBER | | CONTACT Jeff Peckett | | TELEPHONE <small>(Include Area Code)</small> (605) 220-9817 | | DATE | | | | | | | |
| 11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION <small>(Including proper shipping name, hazard class, UN ID number, and any additional information)</small> | | 12. DOT LABEL "RADIOACTIVE" | | 13. TRANSPORT INDEX | | 14. PHYSICAL AND CHEMICAL FORM | | 15. INDIVIDUAL RADIONUCLIDES | | 16. TOTAL PACKAGE ACTIVITY <small>MBq (mCi)</small> | | 17. LSUSCO CLASS | | 18. TOTAL WEIGHT OR VOLUME <small>(Use appropriate units)</small> | | 19. IDENTIFICATION NUMBER OF PACKAGE | |
| UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted, LLW soil | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-235 U-238 U-238 | | 2.8761E+02 (7.7731E+00) | | LSA-I | | 28436 LBS; 1300 FT3 | | 0857-08-0212 20FT SEAVANESU U300542 | |
| FOR CONSIGNEE USE ONLY <small>The original signed manifest resides with:</small> E.W. Cauley Jr. 5801 Bluff Rd Hopkins, SC 29061 (803) 647-3903 | | | | 20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material <u> </u> 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 <input checked="" type="checkbox"/> No Violations Detected on this Shipment | | | | | | | | | |

| FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER | | Energy Solutions, LLC | | SHIPPER - NAME AND FACILITY Westinghouse Electric Co., LLC 8801 BLUFF RD HOPKINS, SC 29061 | | SHIPPER I.D. NUMBER 0857-08-0211 | | 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) 0857-08-0211 | | | | | | | | | | | | | |
|--|--|---|--|--|--|---|--|--|--|---|--|---|--|---|--|---|--|--------------------|--|--|--|---|--|
| 1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 1-800-424-9300 | | 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1 | | 4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number ----- <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | EPA MANIFEST NUMBER | | 5. ORGANIZATION WESTINGHOUSE ELECTRIC CO., LLC | | | | | | | | | | | | | |
| 6. GENERATOR TYPE <input checked="" type="checkbox"/> GENERATOR <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR | | 9. CONSIGNEE - Name and Facility Energy Solutions, LLC Clive Disposal Site Interstate 80, Exit 49 Clive, UT 84029 <i>L131464</i> | | 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. <i>F.W. Cauley Jr</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 | |
| U.S. Generator Site Access Permit No. 9287 001 481 | | SHIPMENT NUMBER 0857-08-0211 | | CONTACT E.W. CAULEY JR | | EPA I.D. NUMBER TNR00034898 | | SHIPPING DATE 12/28/2018 | | TELEPHONE NUMBER (Include Area Code) (803) 847-3803 | | DATE 12/28/2018 | | AUTHORIZED SIGNATURE E.W. Cauley Jr See consignee block below | | TITLE URS Engineering | | DATE 12/12/2018 | | CONTACT Transportation Compliance TELEPHONE (Include Area Code) (435) 884-0155 | | DATE 1/25/19 | |
| D. CARRIER - Name and Address HITTMAN 1560 Bear Creek Rd Oak Ridge, TN 37830 | | CONTACT Jeff Packett | | SIGNATURE - <i>Authorized carrier acknowledging waste receipt</i> | | UN 2912, Radioactive material, low specific activity (LSA-I), 7, Fissile Excepted, LLW soil | | NA | | NA | | SOLID URANIUM OXIDE | | U-234 U-235 U-236 U-238 | | 7.7216E+01 (2.0869E+00) | | LSA-1 | | 28436 LBS; 1300 FT3 | | 0857-08-0211 Z0FT SEAVAN/ESU U300101 | |
| FOR CONSIGNEE USE ONLY The original signed manifest remains with: E.W. Cauley Jr 8801 Bluff Rd Hopkins, SC 29061 (803) 847-3803 | | | | | | 20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material <u> </u> 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 Energy Solutions, 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 Energy Solutions, 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 Energy Solutions LLC's facility license. D. INDEMNIFICATION: Generator agrees to indemnify Energy Solutions, 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. | | | | | | <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment | | | | | | | | | | | |

SEA/LAND CONTAINER INVENTORY LISTING

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|-----------------|-----------|
| FORM NO.: | CF-83-154 |
| REVISION: | 1 |
| PAGE: | 1 OF 1 |
| EFFECTIVE DATE: | 02-05-04 |

CONTAINER BEING FILLED: ESUW300/01

DATE BEGAN FILLING: 11-15-18

ALL WEIGHTS IN POUNDS

- Keep this record sheet in the desk in LLWB while this container is being filled.
- Forward to Engineering when input is complete.

| Items Added * | Gross Weight | Tare Weight | Net Weight | Total Accumulated Gross Weight REMINDER: move container to flatbed before 29,000 gross lbs. exceeded | Gms U235 | Operators initial and date each entry |
|---|--------------|-------------|------------|---|------------|---------------------------------------|
| Container Tare Weight | | 6260 | | 6260 | | MR 11-15-18 |
| Drums added per pick list # 15 DSH 402 (concrete) | 6761 | | | 13,021 | 25.47 | MR 11-15-18 |
| Hoppers 21 soil drums | 10,444 | - | - | 23,465 | 9.0 4.6 | MR 11-15-18 |
| <p>Shipped to site 12/28/18 [Signature]</p> | | | | | | |
| Total Weight for Shipment | | 6260 | 17,265 | 23,465 | 30.07 | |

* Example: hoppers, drums, loose material, etc.

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