APPROVED BY OMB: NO. 3150-0164
EXPIRES: 12/31/2019

Estimated burden per response to comply with this information collection request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0164), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**NRC FORM 540**
(01-2017)

**U.S. NUCLEAR REGULATORY COMMISSION**

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER**

Instructions: See NUREG/BR-0204 for detailed instructions for completing this form: http://www.nrc.gov/reading-rm/doc-collections/nuregs/brochures/br0204/

1. EMERGENCY TELEPHONE NUMBER *(Include Area Code)*
(800) 424-9300 Chemtrec: CCN:836848

ORGANIZATION
US EPA Region 6

2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? ☑ YES ☐ NO

3. **TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST** 1

4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? ☐ YES ☑ NO
If "Yes," provide Manifest Number

EPA MANIFEST NUMBER

5. SHIPPER - NAME AND FACILITY
US EPA Region 6-Lowerline Site
1201 Elm Street, Suite 500
Dallas, TX 75270

USER PERMIT NUMBER

SHIPMENT NUMBER
SR-2415-0005

CONTACT
Greg Fife (SEDEC)

6. CARRIER - Name and Address
Basin Transport
130 Express Lane
McAlester, OK 74501

CONTACT
Randy Turpin

SIGNATURE - Authorized carrier acknowledging waste receipt

SHIPPER I.D. NUMBER

☐ COLLECTOR
☐ PROCESSOR
☑ GENERATOR TYPE *(Specify)*
I

TELEPHONE NUMBER *(Include Area Code)*
(214) 665-6773

EPA I.D. NUMBER
OKR000031492

SHIPPING DATE

TELEPHONE NUMBER *(Include Area Code)*
(918)558-2986

DATE

7. NRC FORM 540 AND 540A PAGE 1 OF 1 PAGE(S)
NRC FORM 541 AND 541A 1 PAGE(S)
NRC FORM 542 AND 542A ___ PAGE(S)
ADDITIONAL INFORMATION ___ PAGE(S)

8. MANIFEST NUMBER
(Use this number on all continuation pages)
TSDF-9001-002

9. CONSIGNEE - Name and Facility Address
Waste Control Specialists LLC
TSD Facility
9998 W. State Hwy 176
Andrews, Texas 79714

CONTACT
Keri Gonzalez

TELEPHONE NUMBER *(Include Area Code)*
(432) 525-8500

SIGNATURE - Authorized consignee acknowledging waste receipt

DATE

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 applicable requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.**

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 IN SI UNITS | 17. LSA/SCO CLASS | 18. TOTAL WEIGHT OR VOLUME *(Use appropriate units)* | 19. IDENTIFICATION NUMBER OF PACKAGE |
|---|---|---|---|---|---|---|---|---|---|---|
| UN2912, Radioactive material, low specific activity(LSA-I), 7 1 Metal Box (Waste Profile: WP-9001) | N/A | N/A | Solid/Metal Oxides | Ra-226 | Pb-210 | Pb-214 | 4.54E+02 MBq (1.23E+01 mCi) | LSA-I | 14,288.16 Kg (31,500lbs) | SRRU 002046 |
| | | | | Bi-214 | U-235 | | | | | |
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FOR CONSIGNEE USE ONLY

APPROVED BY OMB: NO. 3150-0166
EXPIRES: 12/31/2019

Estimated burden per response to comply with this information collection request: 3.3 hours. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0166), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**NRC FORM 541**
(01-2017)

**U.S. NUCLEAR REGULATORY COMMISSION**

# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST
## CONTAINER AND WASTE DESCRIPTION

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

Instructions: See NUREG/BR-0204 for detailed instructions for completing this form:
http://www.nrc.gov/reading-rm/doc-collections/nuregs/brochures/br0204/

**1. MANIFEST TOTALS**

| NUMBER OF PACKAGES/ DISPOSAL CONTAINERS | NET WASTE VOLUME ($m^3$) | NET WASTE WEIGHT (kg) | SPECIAL NUCLEAR MATERIAL (grams) U-233 | U-235 | Pu | TOTAL |
|---|---|---|---|---|---|---|
| 1 | 6.88 | 10886.2 | NP | NP | NP | NP |

| ACTIVITY (MBq) ALL NUCLIDES | TRITIUM | C-14 | Tc-99 | I-129 | SOURCE (kg) |
|---|---|---|---|---|---|
| 4.54E+02 | NP | NP | NP | NP | 2.48E-03 |

2. MANIFEST NUMBER: TSDF-9001-002

3. PAGE 1 OF 1 PAGE(S)

4. SHIPPER NAME: US EPA Region 6

SHIPPER I.D. NUMBER:

**DISPOSAL CONTAINER DESCRIPTION / WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER**

| 5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S) | 6. CONTAINER DESCRIP-TION (See Note 1) | 7. VOLUME ($m^3$) | 8. WASTE AND CONTAINER WEIGHT (kg) | 9. SURFACE RADIATION LEVEL ☐ (µSv/hr) ☑ (mSv/hr) | 10. SURFACE CONTAMINATION MBq/100cm² ALPHA | BETA-GAMMA | 11. WASTE DESCRIP-TOR (See Note 2) | 12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) | 13. SORBENT SOLIDIFICATION, 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 | | 16. WASTE CLASSIFI-CATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SRRU 002046 | 2 | 19 | 14288 | 0.0004 | <3.33E-7 | <3.33E-6 | 22 | 6.88 | 100 | Metal Oxide | NP | Pb-210: 413 pCi/g; 4.50E+00 mCi; (1.66E+02 MBq) | Ra-226: 311 pCi/g; 3.39E+00 mCi; (1.25E+2 MBq) | A U |
| | | | | | | | | | | | | Pb-214: 221 pCi/g; 2.41E+00 mCi; (8.90E+1 MBq) | Bi-214: 182 pCi/g; 1.98 E+00 mCi; (7.33E+1 MBq) | |
| | | | | | | | | | | | | U-235: 0.51 pCi/g; 5.45E-03 mCi; (2.02E-1MBq); 2.48E-03 Kg source | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

**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
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 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/Slud ges/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 3: For solidification media that meet disposal site structural stability requirements, the numerical code must be followed by "-S." For all solidification media, the vendor (manufacturer) and brand name must also be identified in item 13. Code 100=NONE REQUIRED.**

Sorption

60. Speedi Dri
61. Celetom
62. Floor Dry/ Superfine
63. Hi Dri
64. Safe T Sorb
65. Safe N Dri
66. Florco
67. Florco X
68. Solid A Sorb
69. Chemsil 30
70. Chemsil 50
71. Chemsil 3030
72. Dicaperl HP200
73. Dicaperl HP500
74. Petroset
75. Petroset II
76. Aquaset
77. Aquaset II
89. Other. Describe in item 13, or additional page

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