**APPROVED BY OMB: NO. 3150-0166**
**EXPIRES: (MM/DD/YYYY)**

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**NRC FORM 541** (MM-YYYY)

**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 |
| | | | | | | |

| ACTIVITY (MBq) | | | | | SOURCE (kg) |
|---|---|---|---|---|---|
| ALL NUCLIDES | TRITIUM | C-14 | Tc-99 | I-129 | |
| | | | | | |

2. MANIFEST NUMBER

3. PAGE _____ OF _____ PAGE(S)

4. SHIPPER NAME

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 | 10. SURFACE CONTAMINATION MBq/100cm² BETA-GAMMA | PHYSICAL DESCRIPTION 11. WASTE DESCRIP-TOR (See Note 2) | PHYSICAL DESCRIPTION 12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER | PHYSICAL DESCRIPTION 13. SORBENT SOLIDIFICATION, STABILIZATION, MEDIA (See Note 3) | 14. CHEMICAL DESCRIPTION CHEMICAL FORM/ CHELATING AGENT | 14. CHEMICAL DESCRIPTION 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
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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