

<p><b>NRC FORM 541</b> (MM-YYYY)</p> <p style="text-align: center;"><b>U.S. NUCLEAR REGULATORY COMMISSION</b></p> <p style="text-align: center;"><b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b> <b>CONTAINER AND WASTE DESCRIPTION</b></p> <p style="font-size: small;">Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste</p> <p>Instructions: See NUREG/BR-0204 for detailed instructions for completing this form:  <a href="http://www.nrc.gov/reading-rm/doc-collections/nuregs/brochures/br0204/">http://www.nrc.gov/reading-rm/doc-collections/nuregs/brochures/br0204/</a></p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="7" style="text-align: center;">1. MANIFEST TOTALS</th> </tr> <tr> <th rowspan="2" style="font-size: x-small;">NUMBER OF PACKAGES/ DISPOSAL CONTAINERS</th> <th rowspan="2" style="font-size: x-small;">NET WASTE VOLUME (m<sup>3</sup>)</th> <th rowspan="2" style="font-size: x-small;">NET WASTE WEIGHT (kg)</th> <th colspan="4" style="font-size: x-small;">SPECIAL NUCLEAR MATERIAL (grams)</th> </tr> <tr> <th style="font-size: x-small;">U-233</th> <th style="font-size: x-small;">U-235</th> <th style="font-size: x-small;">Pu</th> <th style="font-size: x-small;">TOTAL</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <th colspan="6" style="font-size: x-small;">ACTIVITY (MBq)</th> <th rowspan="2" style="font-size: x-small;">SOURCE (kg)</th> </tr> <tr> <th style="font-size: x-small;">ALL NUCLIDES</th> <th style="font-size: x-small;">TRITIUM</th> <th style="font-size: x-small;">C-14</th> <th style="font-size: x-small;">Tc-99</th> <th style="font-size: x-small;">I-129</th> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	1. MANIFEST TOTALS							NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME (m <sup>3</sup> )	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									<p>2. MANIFEST NUMBER</p> <p>3. PAGE _____ OF _____ PAGE(S)</p> <p>4. SHIPPER NAME</p> <p>SHIPPER I.D. NUMBER</p>
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DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m <sup>3</sup> )	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL <input type="checkbox"/> (μSv/hr) <input type="checkbox"/> (mSv/hr)	10. SURFACE CONTAMINATION MBq/100cm <sup>2</sup> ALPHA      BETA-GAMMA		11. PHYSICAL DESCRIPTION 11. WASTE DESCRIPTION (See Note 2) 12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER 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	

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

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

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

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

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