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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

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							2. Manifest Number
No. of Pkgs/ Disposal Containers	Net Waste Volume (m^3)	Net Waste Weight (kg)	Special Nuclear Material (grams) U-233	U-235	Pu	Total	3. Page 1 of ____ Page(s)
							4. Shipper Name
Activity (MBq) All Nuclides		Tritium	C-14	Tc-99	I-129	Source (kg)	Shipper ID Number

Disposal Container Description								Waste Description for Each Waste Type in Container						
								Physical Description			15. Chemical Description		16. Radiological Description	
5. Container Identification Number/Generator ID Number(s)	6. Container Description (See Note 1)	7. Volume (m^3)	8. Waste and Container Weight (kg)	9. Waste Weight (kg)	10. Surface Radiation Level ☐ (μSv/hr) ☐ (mSv/hr)	11. Surface Contamination MBq/100 cm^2 Alpha	Beta-Gamma	12. Waste Descriptor (See Note 2)	13. Approximate Waste Volume(s) in Container	14. Sorbent Solidification, Stabilization, Media (See Note 3)	Chemical Form/ Chelating Agent	Weight % Chelating Agent if > 0.1%	Individual Radionuclides and Activity (MBq) and Container Total; or Container Total Activity and Radionuclide Percent	17. Waste Class AS-Class A Stable AU-Class A Unstable B-Class B C-Class C

NOTE 1: Container Description Codes. For containers/ waste requiring disposal in approved structural overpacks, the numerical code should 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/ Sludges/Concentrates
39. Compactible Trash
40. Noncompactible Trash
41. Animal Carcass
42. Biological Material (except animal carcass)
43. Activated Material
59. Other. Describe in item 12, or additional page

NOTE 3: For solidification media that meet disposal site structural stability requirements, the numerical code should be followed by "-S."
For all solidification media, the vendor (manufacturer) and brand name should also be identified in item 14. Code 100=NONE REQUIRED.

Sorption
60. Speed Dri
61. Celetom
62. Floor Dry/ Superfine
63. High 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 14, or additional page

Solidification
90. Cement
91. Concrete (encapsulation)
92. Bitumen
93. Vinyl Chloride
94. Vinyl Ester Styrene
99. Other. Describe in item 14, or additional page
100. None Required