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APPENDIX 5.2-2 WASTE STREAM CATEGORIES

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Table 5.2.2-1. Waste Stream Classification- CWF Cask Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Predominant Packages	Total Packages	Shipments
Comanche Peak	D&D PWR Texas	37,000	175,000	resins, metal	B	Med. Liner	309	309
Comanche Peak	D&D PWR Texas	1,900	905,000	metallic reactor components	C	Large Liner	10	10
Comanche Peak	PROCFIL Texas	2,300	6,650	filter media, sludge	C	Med. Liner	20	20
Comanche Peak	RWDMRES Texas	10,029	2,970	spent demin. resins	Hi-A	Large Liner	51	51
Comanche Peak	RWDMRES Texas	7,500	11,300	spent demin. resins	B	Med. Liner	63	63
International Isotopes, TX	HIGHACT Texas	15	1	activated metal	Hi-A	Drum cask	3	1
Radiation Technology, TX	SOURCES Texas	260	1,440	encapsulated sources	C	Drum cask	38	5
South Texas Project	D&D PWR Texas	170,000	802,000	resins, metal	B	Med. Liner	1417	1417
South Texas Project	D&D PWR Texas	1,900	905,000	metallic reactor components	C	Large Liner	10	10
South Texas Project	PROCFIL Texas	17,000	49,100	filter media, sludge	C	Med. Liner	142	142
South Texas Project	RWDMRES Texas	707	209	spent demin. resins	Hi-A	Large Liner	4	4
South Texas Project	RWDMRES Texas	17,000	25,600	spent demin. resins	B	Med. Liner	142	142
Texas A & M University	HIGHACT Texas	9	1	activated metal	Hi-A	Drum cask	2	1
Texas A & M University	SOURCES Texas	4	4	encapsulated sources	Hi-A	Drum cask	1	1
Texas Department of Health	SOURCES Texas	88	73	encapsulated sources	Hi-A	Drum cask	13	2
Texas Department of Health	SOURCES Texas	24	133	encapsulated sources	C	Drum cask	4	1
Texas Tech University, Health Science Center	SOURCES Texas	28	23	encapsulated sources	Hi-A	Drum cask	4	1

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Table 5.2.2-1. Waste Stream Classification- CWF Cask Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Predominant Packages	Total Packages	Shipments
TN Technologies, TX	SOURCES Texas	5,000	4,120	encapsulated sources	Hi-A	Drum cask	715	90
TN Technologies, TX	SOURCES Texas	1,700	1,940	encapsulated sources	B	Drum cask	243	31
TN Technologies, TX	SOURCES Texas	3,400	18,900	encapsulated sources	C	Drum cask	486	61
U.S. Military	HIGHACT Texas	5,571	373	activated metal	Hi-A	Med. Liner	47	47
U.S. Military	SOURCES Texas	5,571	4,590	encapsulated sources	Hi-A	Drum cask	796	100
U.S. Military	SOURCES Texas	335	383	encapsulated sources	B	Drum cask	48	6
U.S. Military	SOURCES Texas	940	5,210	encapsulated sources	C	Drum cask	135	17
University of Texas at Austin	HIGHACT Texas	35	2	activated metal	Hi-A	Drum cask	6	1
University of Texas at Austin	SOURCES Texas	35	29	encapsulated sources	Hi-A	Drum cask	6	1
Vermont Department of Health	SOURCES Texas	14	16	encapsulated sources	B	Drum cask	2	1
Vermont Yankee	CONDFSL Vermont	2,756	177	filter media, sludge	B	Large Liner	14	14
Vermont Yankee	D&D BWR Vermont	5,700	14,100	resins, metal	B	Med. Liner	48	48
Vermont Yankee	D&D BWR Vermont	1,300	409,000	metallic reactor components	C	Large Liner	7	7
Vermont Yankee	DECONRS Vermont	1,343	1,280	spent resins	Hi-A	Med. Liner	12	12
Vermont Yankee	FPFILSL Vermont	458	166	filter media, sludge	C	Med. Liner	4	4
Vermont Yankee	NFRCOMP Vermont	2,542	1,340,000	metallic reactor components	C	Large Liner	13	13
Vermont Yankee	RWCUPRS Vermont	175	63	spent primary resins	B	Med. Liner	2	2
Vermont Yankee	RWDMRES Vermont	69	1	spent demin. resins	B	Med. Liner	1	1
12	35	302,708	4,684,853				4,818	2,636

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Table 5.2.2-2. Waste Stream Classification- CWF High Container Dose Rate (HCD) Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Primary Package	Total Packages	Shipments
Comanche Peak	D&D PWR Texas	410,000	8,250	rubble, metal	Hi-A	Large Liner	2,050	2,050
Comanche Peak	FLDRFSL Texas	2,302	0	filter media, sludge	A	B-25	26	4
South Texas Project	D&D PWR Texas	1,200,000	24,100	rubble, metal	Hi-A	Large Liner	6,000	6,000
South Texas Project	FLDRFSL Texas	997	0	filter media, sludge	A	B-25	12	2
Vermont Yankee	CONDFSL Vermont	36,931	384	filter media, sludge	A	Large Liner	185	185
Vermont Yankee	D&D BWR Vermont	76,000	716	rubble, metal	Hi-A	Large Liner	380	380
Vermont Yankee	FPFILSL Vermont	227	26	filter media, sludge	Hi-A	Large Liner	2	2
3	7	1,726,457	33,476				8,655	8,623

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Table 5.2.2-3. Waste Stream Classification- CWF Containerized Debris (CD) Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Primary Package	Total Packages	Shipments
Baker Atlas, TX	COTRASH Texas	260	4	rags, paper, plastic, cloth, PPE	A	Drum	38	1
Baylor College of Medicine	ABSLIQD Texas	1,253	318	scintillation fluid, solidified	A	Drum	180	3
Baylor College of Medicine	BIOWAST Texas	36	0	biological waste, tissue	A	Drum	6	1
Baylor College of Medicine	COTRASH Texas	11	0	rags, paper, plastic, cloth, PPE	A	Drum	2	1
Comanche Peak	COTRASH Texas	6,165	22	rags, paper, plastic, cloth, PPE	A	B-25	69	9
Comanche Peak	NCTRASH Texas	205,505	1,050	filters, tools, glass, metal, equip.	A	B-25	2,284	286
International Isotopes, TX	COTRASH Texas	3	0	rags, paper, plastic, cloth, PPE	A	Drum	1	1
Middlebury College, Vermont	COTRASH Vermont	103	0	rags, paper, plastic, cloth, PPE	A	Drum	15	1
Middlebury College, Vermont	NCTRASH Vermont	27	0	filters, tools, glass, metal, equip.	A	Drum	4	1
Radiation Technology, TX	COTRASH Texas	35	1	rags, paper, plastic, cloth, PPE	A	Drum	5	1
Rhodia, Inc., TX	COTRASH Texas	1,400	22	rags, paper, plastic, cloth, PPE	A	Drum	200	3
South Texas Project	COTRASH Texas	4,987	18	rags, paper, plastic, cloth, PPE	A	B-25	5	7
South Texas Project	NCTRASH Texas	249,369	1,280	filters, tools, glass, metal, equip.	A	B-25	2,771	347
South Texas Project	SSYSRES Texas	23,939	0	secondary system resins	A	Large Liner	120	120
Southwest Research Institute, TX	COTRASH Texas	2,550	41	rags, paper, plastic, cloth, PPE	A	Drum	365	5
Southwest Research Institute, TX	NCTRASH Texas	2,550	22	filters, tools, glass, metal, equip.	Hi-A	Drum	365	5
Texas A & M University	ABSLIQD Texas	863	219	scintillation fluid, solidified	A	Drum	124	2
Texas A & M University	BIOWAST Texas	13	0	biological waste, tissue	A	Drum	2	1

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Table 5.2.2-3. Waste Stream Classification- CWF Containerized Debris (CD) Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Primary Package	Total Packages	Shipments
Texas A & M University	COTRASH Texas	171	3	rags, paper, plastic, cloth, PPE	A	Drum	25	1
Texas A & M University	NCTRASH Texas	539	5	filters, tools, glass, metal, equip.	Hi-A	Drum	78	1
Texas A&M University - Nuclear Science Center	COTRASH Texas	5,018	80	rags, paper, plastic, cloth, PPE	A	Drum	717	9
Texas A&M University - Nuclear Science Center	NCTRASH Texas	72,982	638	filters, tools, glass, metal, equip.	Hi-A	B-25	811	102
Texas Instruments	COTRASH Texas	2	0	rags, paper, plastic, cloth, PPE	A	Drum	1	1
Texas Tech University, Health Science Center	ABSLIQD Texas	165	42	scintillation fluid, solidified	A	Drum	24	1
Texas Tech University, Health Science Center	COTRASH Texas	193	3	rags, paper, plastic, cloth, PPE	A	Drum	28	1
Texas Tech University, Health Science Center	LOWASTE Texas / Vt	55	0	Trash, PPE	A	Drum	8	1
TN Technologies, TX	COTRASH Texas	5,000	80	rags, paper, plastic, cloth, PPE	A	Drum	715	9
TN Technologies, TX	NCTRASH Texas	5,000	44	filters, tools, glass, metal, equip.	Hi-A	Drum	715	9
TN Technologies, TX	NCTRASH Texas	1,700	426	filters, tools, glass, metal, equip.	B	Drum	243	4
U.S. Military	ABSLIQD Texas	5,571	1,410	scintillation fluid, solidified	A	Drum	796	10
U.S. Military	BIOWAST Texas	5,571	29	biological waste, tissue	A	B-25	62	8
U.S. Military	COTRASH Texas	5,571	89	rags, paper, plastic, cloth, PPE	A	Drum	796	10
U.S. Military	LOWASTE Texas / Vt	5,571	9	rags, paper, plastic, cloth, PPE	A	Drum	796	10
U.S. Military	NCTRASH Texas	5,571	49	filters, tools, glass, metal, equip.	Hi-A	Drum	796	10
U.S. Military	NCTRASH Texas	335	84	filters, tools, glass, metal, equip.	B	Drum	48	1
University of Houston	ABSLIQD Texas	2,107	534	scintillation fluid, solidified	A	Drum	302	4
University of Houston	BIOWAST Texas	1,054	5	biological waste, tissue	A	B-25	12	2

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Table 5.2.2-3. Waste Stream Classification- CWF Containerized Debris (CD) Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Primary Package	Total Packages	Shipments
University of Houston	COTRASH Texas	3,512	56	rags, paper, plastic, cloth, PPE	A	Drum	502	7
University of Houston	LOWASTE Texas / Vt	527	1	rags, paper, plastic, cloth, PPE	A	Drum	76	1
University of Texas at Arlington	COTRASH Texas	181	3	rags, paper, plastic, cloth, PPE	A	Drum	26	1
University of Texas at Arlington	LOWASTE Texas / Vt	9	0	Trash, PPE	A	Drum	2	1
University of Texas at Austin	BIOWAST Texas	1,443	7	biological waste, tissue	A	B-25	17	3
University of Texas at Austin	COTRASH Texas	1,443	23	rags, paper, plastic, cloth, PPE	A	Drum	207	3
University of Texas at Austin	NCTRASH Texas	1,443	13	filters, tools, glass, metal, equip.	Hi-A	Drum	207	3
University of Texas at San Antonio	COTRASH Texas	1,300	21	rags, paper, plastic, cloth, PPE	A	Drum	186	3
University of Texas Health Science Center at Houston	COTRASH Texas	130	2	rags, paper, plastic, cloth, PPE	A	Drum	19	1
University of Texas Health Science Center at San Antonio	ABSLIQD Texas	4,284	1,090	scintillation fluid, solidified	A	Drum	612	8
University of Texas Health Science Center at San Antonio	COTRASH Texas	816	13	rags, paper, plastic, cloth, PPE	A	Drum	117	2
University of Texas M.D. Anderson Cancer Center	ABSLIQD Texas	4,386	1,110	scintillation fluid, solidified	A	Drum	627	8
University of Texas M.D. Anderson Cancer Center	COTRASH Texas	914	15	rags, paper, plastic, cloth, PPE	A	Drum	131	2

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Table 5.2.2-3. Waste Stream Classification- CWF Containerized Debris (CD) Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Primary Package	Total Packages	Shipments
University of Texas Medical Branch of Galveston	ABSLIQD Texas	2,625	665	scintillation fluid, solidified	A	Drum	375	5
University of Texas Medical Branch of Galveston	BIOWAST Texas	525	3	biological waste, tissue	A	B-25	6	1
University of Texas Medical Branch of Galveston	COTRASH Texas	3,150	50	rags, paper, plastic, cloth, PPE	A	Drum	450	6
University of Vermont	ABSLIQD Vermont	833	0	scintillation fluid, solidified	A	Drum	119	2
University of Vermont	BIOWAST Vermont	833	4	biological waste, tissue	A	B-25	10	2
University of Vermont	COTRASH Vermont	833	1	rags, paper, plastic, cloth, PPE	A	Drum	119	2
Vermont Yankee	COTRASH Vermont	40,288	178	rags, paper, plastic, cloth, PPE	A	B-25	448	56
Vermont Yankee	NCTRASH Vermont	40,288	178	filters, tools, glass, metal, equip.	A	B-25	448	56
Vermont Yankee	RWDMRES Vermont	923	11	spent demin. resins	A	Large Liner	5	5
Veterans' Affairs Medical Center of Houston	ABSLIQD Texas	337	85	scintillation fluid, solidified	A	Drum	49	1
Veterans' Affairs Medical Center of Houston	COTRASH Texas	763	12	rags, paper, plastic, cloth, PPE	A	Drum	110	2
Veterans' Affairs Medical Center, White River Junction, VT	COTRASH Vermont	110	0	rags, paper, plastic, cloth, PPE	A	Drum	16	1
24	62	733,145	10,070				18,464	1,171

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Table 5.2.2-4. Waste Stream Classification- FWF Cask Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Primary Package	Total Packages	Shipments
Ashtabula	5. Ashtabula, ER, COM, LLW	194,150	420,000	Soil, rubble, debris	B	Shielded B-25	2158	2158
Ashtabula	6. Ashtabula, ER, COM, Mixed	1,765	3,820	Soil, rubble, debris	B	Shielded B-25	20	20
GE Vallecitos (complex wide)	19. General Electric, ER, TBD, LLW	706	1,530	Soil	B	Shielded B-25	8	8
Idaho National Lab	21. INL, TBD, LLW	2,435,700	651,000	D&D LLW	B	Med. Liner	20298	20298
Idaho National Lab	22. INL, ER, TBD, LLW	26,828	7,170	D&D LLW	B	Med. Liner	224	224
Los Alamos	34. LANL, COM, Mixed	88,250	1,580,000	Treated dewatered sludge	B	Small Liner	981	981
Oak Ridge	38. Oak Ridge, TBD, LLW	706	1,040	Beryllium reflectors	C	Small Liner	8	8
Sandia (default NTS)	56. Sandia, ER, COM, LLW	52,950	88,000	Soil, debris	B	Shielded B-25	589	589
Sandia (default NTS)	59. Sandia, ER, COM, Mixed	116,490	194,000	Soil, debris	B	Shielded B-25	1295	1295
Separations Process Res. Unit	64. SPRU, ER, TBD, LLW	289,460	626,000	Soil, rubble	B	Shielded B-25	3217	3217
Separations Process Res. Unit	65. SPRU, ER, TBD, Mixed	2,471	5,350	Soil, rubble	B	Shielded B-25	28	28
West Valley	66. WVDP, COM, LLW	201,210	435,000	D&D, resins, sludge	B	Shielded B-25	2236	2236
West Valley	67. WVDP, TBD, LLW	5,295,000	11,500,000	D&D, resins, sludge	B	Shielded B-25	58834	58834
8	13	8,705,686	15,512,910				89,896	89,896

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Table 5.2.2-5. Waste Stream Classification- FWF Containerized Debris (CD) Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Primary Package	Total Packages	Shipments
Ames Laboratory	1. Ames Lab, COM	3,530	0	Metal, ash	A	B-25	40	5
Argonne-East	2. Argonne – East, COM, LLW	176,500	2,490	Compacted, stabilized	A	B-25	1,962	246
Argonne-East	3. Argonne – East, COM, Mixed	13,767	30	Sorted mixed waste	A	B-25	153	20
Argonne-East	4. Argonne – East, ER, COM, Mixed	6,354	0	GW treatment waste	A	B-25	71	9
Brookhaven	10. Brookhaven, COM, Mixed	12,002	406	Solidified liquids, lead	B	B-25	134	17
Brookhaven	11. Brookhaven, ER, COM, Mixed	4,236	1	Soil, sludge, debris	A	B-25	48	6
Brookhaven	7. Brookhaven, COM, LLW	158,850	46	Metal, compacted waste	A	B-25	1,765	221
Brookhaven	8. Brookhaven, ER, COM, LLW	1,376,700	370	Soil, sludge, debris	A	B-25	15,297	1,913
Brookhaven	9. Brookhaven, ER, TBD, LLW	282,400	113	Graphite reactor D&D	A	B-25	3,138	393
Depleted UF6 Deconversion	69. DOE UF6 conversion, LLW	353,000	27,900	Packaged U-oxide	A	Large Liner	1,765	1,765
Fernald	18. Fernald, ER, TBD, Mixed	706	2	Solidified liquids	A	Drum	101	2
Idaho National Lab	23. INL, COM, Mixed	84,720	44	Stabilized, debris, lead	A	B-25	942	118
Idaho National Lab	24. INL, ER, COM, Mixed	706	0	Stabilized, debris, lead	A	B-25	8	1
Inh. Toxicology Res. Inst. (Lovlace)	25. ITRI, COM, Mixed	2,506	0	Solidified liquids	A	Drum	359	5
Lawrence Berkeley	28. LBNL, COM, LLW	77,660	187,000	Solidified liquids, debris	B	B-25	863	108
Lawrence Berkeley	29. LBNL, ER, COM, LLW	7,766	18,700	Solidified liquids, lead	B	B-25	87	11
Lawrence Berkeley	30. LBNL, COM, Mixed	3,883	9,360	Solidified liquids, lead	B	B-25	44	6

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Table 5.2.2-5. Waste Stream Classification- FWF Containerized Debris (CD) Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Primary Package	Total Packages	Shipments
Los Alamos	33. LANL, TBD, LLW	953	13	Treatment residue	A	B-25	11	2
Miamisburg	36. Miamisburg, ER, COM, LLW	2,541,600	25	Packaged waste	A	B-25	28,240	3,530
Oak Ridge	41. Oak Ridge, COM, Mixed	1,835,600	1,450	Process residue, sludge	A	B-25	20,396	2,550
Paducah	46. Paducah, COM, Mixed	180,030	32	Treated solids	A	B-25	2,001	251
Portsmouth	48. Portsmouth, COM, LLW	388,300	8	Solids, sludge	A	B-25	4,315	540
Portsmouth	49. Portsmouth, TBD, LLW	243,570	5	Solids, sludge	A	B-25	2,707	339
Portsmouth	50. Portsmouth, ER, COM, LLW	3,883	0	Solids, sludge	A	B-25	44	6
Portsmouth	51. Portsmouth, COM, Mixed	321,230	7	Solids, sludge, PCBs	A	B-25	3,570	447
Portsmouth	52. Portsmouth, TBD, Mixed	42,360	1	Solids, sludge, PCBs	A	B-25	471	59
Portsmouth	53. Portsmouth, ER, COM, Mixed	34,241	1	Incinerable solids	A	B-25	381	48
Princeton	54. Princeton, COM, LLW	1,800	43,400	Compacted waste	B	B-25	21	3
Princeton	55. Princeton, TBD, LLW	24,710	595,000	Compacted waste	B	B-25	275	35
Sandia	58. Sandia, TBD, Mixed	671	4,770	Macroencapsulated debris	B	B-25	8	1
Savannah River Site	62. SRS, ER, TBD, LLW	215,330	589	LLW sludge	A	B-25	2,393	300
Savannah River Site	63. SRS, TBD, Mixed	130,610	43,700	Treated soil/sludge	A	B-25	1,452	182
TRU Soil, Hanford & NTS	68. TRU soil, LLW	7,060,000	12,700	Soil	C	B-25	78,445	9,806
17	33	15,590,174	948,163				171,507	22,945

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Table 5.2.2-6. Waste Stream Classification- FWF Bulk Debris (BD) Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Primary Packages	Total Packages	Shipments
Oak Ridge	37. Oak Ridge, COM, LLW	2,647,500	13	Debris, solids, compacted	A	Intermodal	6,619	6,619
Oak Ridge	39. Oak Ridge, ER, COM, LLW	3,883,000	19	Debris, solids	A	Intermodal	9,708	9,708
Oak Ridge	40. Oak Ridge, ER, TBD, LLW	917,800	5	Debris, solids	A	Intermodal	2,295	2,295
Oak Ridge	42. Oak Ridge, ER, COM, Mixed	33,182	0	Debris	A	Intermodal	83	83
Oak Ridge	43. Oak Ridge, ER, TBD, Mixed	3,318	0	Debris	A	Intermodal	9	9
Paducah	47. Paducah, ER, COM, Mixed	811,900	144	Debris, rubble, solids	A	Intermodal	2,030	2,030
Sandia	57. Sandia, COM, Mixed	2,829	450	Treated waste, soil, debris	A	Intermodal	83	83
3	7	8,329,529	631				20,827	20,827

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Table 5.2.2-7. Waste Stream Classification- Bulk Soil/Soil-Like (BS) Waste

Generator	Waste Stream	Vol (cf)	Activity (Ci)	Waste Medium	Class	Primary Packages	Total Packages	Shipments
Columbus	12. Columbus, ER, COM, LLW	335,350	0.1	Soil, rubble, debris	A	Intermodal	839	839
Columbus	13. Columbus, ER, COM, Mixed	388	0.0	Soil, rubble, debris	A	Intermodal	1	1
Energy Tech. Engineering Center	14. ETEC, ER, COM, LLW	529,500	0.0	Soil	A	Intermodal	1,324	1,324
Energy Tech. Engineering Center	15. ETEC, ER, COM, Mixed	49,420	0.0	Soil	A	Intermodal	124	124
Fernald	16. Fernald, ER, COM, LLW	17,650,000	6,080	Soil, rubble, debris	A	Intermodal	44,125	44,125
Fernald	17. Fernald, ER, COM, Mixed	165,910	57	Soil, rubble, debris	A	Intermodal	415	415
Grand Junction	20. Grand Junction, ER, COM, LLW	2,471	0	Soil	A	Intermodal	7	7
Lab for Energy-Related Health Res.	26. LERHR, COM, LLW	4,942	1	Soil, rubble, debris	A	Intermodal	13	13
Lab for Energy-Related Health Res.	27. LERHR, ER, COM, LLW	112,960	29	Soil, rubble, debris	A	Intermodal	283	283
Lawrence Livermore	31. LLNL, COM, LLW	5,648	3	Soil, debris, solids	A	Intermodal	15	15
Lawrence Livermore	32. LLNL, COM, Mixed	4,942	2	Soil, debris, solids	A	Intermodal	13	13
Los Alamos	35. LANL, ER, COM, Mixed	84,720	0	Soil	A	Intermodal	212	212
Paducah	44. Paducah, COM, LLW	229,450	41	Debris, rubble, solids	A	Intermodal	574	574
Paducah	45. Paducah, ER, COM, LLW	3,530,000	627	Debris, rubble, solids	A	Intermodal	8,825	8,825
Savannah River Site	60. SRS, COM, LLW	494,200	13	Soil, rubble, equipment, ash	A	Intermodal	1,236	1,236
Savannah River Site	61. SRS, ER, COM, LLW	1,059,000	22	Soil, rubble, debris	A	Intermodal	2,648	2,648
9	16	24,258,901	6,875				60,654	60,654