

APPENDIX D

SITE-SPECIFIC STORED RADIONUCLIDE INVENTORIES

CH Curies on a Site-by-Site<sup>1,2</sup> Basis  
(Decayed to the End of 1995)



Nuclide	ARCO	ARMY	ETEC	HANF	INEL	LBL
Ac225			2.23E-15	1.31E-01	1.52E+00	5.45E-06
Ac227		1.98E-15	4.09E-14	1.02E-04	3.86E-02	1.35E-19
Ac228			2.87E-18	5.60E-02	3.08E-01	1.69E-19
Ag109M						
Ag110				5.08E-10	3.55E-09	
Ag110M				3.82E-08	2.67E-07	
Am241			5.19E-01	4.73E+03	9.01E+04	9.17E-02
Am243				9.01E-02	3.79E-01	3.85E-02
Am245					1.12E-09	3.60E-14
At217			2.23E-15	1.31E-01	1.52E+00	5.45E-06
Ba137M				6.46E+02	5.71E+01	
Bi210	5.22E-15		2.05E-15	5.30E-06	2.70E-02	8.96E-03
Bi211		1.98E-15	4.09E-14	1.02E-04	3.87E-02	1.35E-19
Bi212			1.10E-18	5.18E-02	2.62E+01	8.59E-20
Bi213			2.23E-15	1.31E-01	1.52E+00	5.45E-06
Bi214	6.86E-13		4.56E-14	3.15E-05	4.80E-02	3.37E-02
Bk249					7.70E-05	2.48E-09
Bk250						8.68E-08

<sup>1</sup>Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

<sup>2</sup>Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ARCO	ARMY	ETEC	HANF	INEL	LBL
C14				1.60E+00	1.66E-01	
Cd109						
Cd113M				1.25E-09	3.20E-08	
Ce144				4.42E-03	3.15E-02	
Cf249					1.02E-02	3.10E-03
Cf250						1.97E-04
Cf251						
Cf252				3.52E+01	2.19E-03	
Cm242					2.73E-08	
Cm243				1.52E-02		
Cm244				6.83E+01	4.93E+02	8.70E-02
Cm245				1.68E+01	9.09E-06	2.27E-06
Cm246					1.53E-03	4.83E-07
Cm247						
Cm248				7.82E-03	4.73E-07	
Co58					1.22E-14	
Co60					6.24E+01	
Cs134				2.45E-04	1.20E-03	
Cs135				1.91E-07	8.07E-06	
Cs137				6.83E+02	6.04E+01	
Es254						8.67E-08
Eu150					3.50E-05	



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<sup>2</sup>Data include undecayed curies from the RFETS residues from the following radioisotopes: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ARCO	ARMY	ETEC	HANF	INEL	LBL
Eu152				7.34E-07	1.62E-01	
Eu154				6.22E-05	6.43E-01	
Eu155				1.06E-03	3.83E-01	
Fe55					1.91E-05	
Fe59					3.38E-21	
Fr221			2.23E-15	1.31E-01	1.52E+00	5.45E-06
Fr223		2.73E-17	5.64E-16	1.41E-06	5.33E-04	1.86E-21
H3					8.01E-01	
I129						
Kr85						
Mn54					8.51E-04	
Nb95				1.80E-11	2.38E-09	
Nb95M				6.00E-14	7.95E-12	
Ni59						
Ni63					9.06E-05	
Np237			9.49E-07	2.72E-01	8.53E-01	6.32E-06
Np239				9.01E-02	3.79E-01	3.85E-02
Np240M				5.80E-10	3.50E-14	
Pa231		1.88E-13	6.73E-13	4.83E-04	1.33E-05	1.99E-18
Pa233			9.49E-07	2.72E-01	8.53E-01	6.32E-06
Pa234			6.06E-17	7.61E-03	1.50E-04	2.40E-14
Pa234M			4.66E-14	5.86E+00	1.16E-01	1.84E-11

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<sup>2</sup>Data include undecayed curies from the RFETS residues from the following radioisotopes: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

















CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Pa234M	2.38E-02	3.03E-02		1.16E-07	3.46E-04	4.26E-02
Pb209	8.06E-02	9.81E-13		1.59E-13	2.41E-03	2.07E-01
Pb210	2.80E-01	2.38E-13	5.20E-10		6.69E-02	1.26E+00
Pb211	2.32E-01	3.32E-10	2.99E-12	1.83E-17	2.09E-04	9.85E-03
Pb212	6.16E-03	6.13E-17			1.64E-02	2.83E-01
Pb214	9.04E-01	9.47E-12	4.46E-09	1.94E-22	2.49E-01	6.49E+00
Pd107	3.03E-05				1.78E-07	
Pm147	2.00E+00				1.05E-01	1.94E-02
Po210	2.80E-01	1.97E-13	5.20E-10		6.69E-02	1.26E+00
Po211	6.50E-04	9.28E-13	8.38E-15	5.12E-20	5.86E-07	2.76E-05
Po212	8.48E-04	3.93E-17			1.05E-02	1.82E-01
Po213	7.89E-02	9.60E-13		1.55E-13	2.36E-03	2.02E-01
Po214	9.04E-01	9.47E-12	4.46E-09	1.93E-22	2.49E-01	6.49E+00
Po215	2.32E-01	3.32E-10	2.99E-12	1.83E-17	2.09E-04	9.85E-03
Po216	1.32E-03	6.13E-17			1.64E-02	2.83E-01
Po218	9.05E-01	9.47E-12	4.47E-09	1.94E-22	2.50E-01	6.49E+00
Pr144	3.00E-04				7.79E-04	
Pu236	5.37E-17					
Pu238	1.15E+05	7.65E+01	4.97E+02		3.15E+04	3.50E+03
Pu239	7.91E+04	1.64E+02	6.28E+00	2.46E-02	2.76E+03	2.72E+03
Pu240	1.01E+02	6.44E+01			2.66E+01	9.48E+02
Pu241	1.62E+03	1.63E+03		6.32E-03	2.40E+02	4.79E+04


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<sup>2</sup>Data include undecayed curies from the RFETS residues from the following radioisotopes: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).



## CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Pu242	4.85E+02	2.02E-02			8.70E-02	2.37E-01
Pu243	1.34E-09					
Pu244	1.94E-07				1.00E-06	1.10E-09
Ra223	2.32E-01	2.32E-01	2.99E-12	1.83E-17	2.09E-04	9.85E-03
Ra224	1.32E-03	6.13E-17			1.71E-02	2.83E-01
Ra225	8.06E-02	9.81E-13		1.59E-13	2.41E-03	2.07E-01
Ra226	9.05E-01	3.99E-08	4.47E-09	1.94E-22	2.50E-01	6.54E+00
Ra228	1.59E-03	1.59E-16			1.90E-16	9.92E-04
Rh106	9.97E-04				8.74E-04	
Rn219	2.32E-01	3.32E-10	2.99E-12	1.83E-17	2.09E-04	9.85E-03
Rn220	1.32E-03	6.13E-17			1.64E-02	2.83E-01
Rn222	9.05E-01	9.47E-12	4.47E-09	1.94E-22	2.50E-01	6.49E+00
Ru106	9.97E-04				8.74E-04	
Sb125	4.67E-02				1.37E-03	
Sb126	5.52E-05				3.23E-07	
Sb126M	3.94E-04				2.31E-06	
Se79	1.78E-04				1.04E-06	
Sm151	6.02E-01				3.75E-03	
Sn119M	1.66E-08				2.97E-08	
Sn121M	1.09E-02				7.17E-05	
Sn126	3.99E-04				2.31E-06	
Sr90	4.44E+01				3.10E-01	1.48E+03

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## CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Tc99	1.02E-02				5.99E-05	1.78E+01
Te125M	1.14E-02				3.33E-04	
Te127	7.45E-10				2.29E-12	
Te127M	7.60E-10				2.34E-12	
Th227	2.29E-01	7.39E-08	2.95E-12	1.80E-17	2.06E-04	9.72E-03
Th228	1.32E-03	6.13E-17			1.64E-02	2.83E-01
Th229	8.06E-02	9.81E-13		1.59E-13	2.41E-03	2.07E-01
Th230	4.90E-04	3.06E-08	1.86E-06	1.34E-18	9.98E-07	2.45E-04
Th231	5.27E-01	1.76E-03	1.05E-07	3.75E-08	6.15E-05	1.45E-02
Th232	2.29E-03	9.37E-16			8.19E-16	8.57E-04
Th234	2.36E-02	3.03E-02		1.16E-07	3.18E-04	4.26E-02
Ti207	2.31E-01	3.31E-10	3.20E-12	1.82E-17	2.09E-04	9.82E-03
Ti208	4.76E-04	2.20E-17			5.89E-03	1.02E-01
Ti209	1.74E-03	2.12E-14		3.43E-15	5.20E-05	4.47E-03
U232	1.67E-03				1.65E-02	2.90E-01
U233	4.46E+01	5.95E-09		1.78E-09	1.81E+00	1.77E+02
U234	6.06E+00	3.29E-03	2.47E-02	2.98E-13	1.26E-02	1.57E+01
U235	5.27E-01	5.93E-04	1.05E-07	4.44E-11	1.17E-02	1.33E-02
U236	3.21E-04	7.62E-06			4.20E-06	3.40E-04
U237	3.98E-02	4.00E-02		1.55E-07	5.88E-03	1.18E+00
U238	2.36E-02	3.03E-02		1.16E-07	1.64E-04	4.26E-02
U240	1.94E-07				9.99E-07	1.10E-09

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CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Y90	4.44E+01				3.10E-01	1.48E+03
Zn65						3.85E-09
<b>Total by Site</b>	<b>2.08E+05</b>	<b>2.15E+03</b>	<b>5.03E+02</b>	<b>3.55E-01</b>	<b>3.50E+04</b>	<b>6.55E+04</b>

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Ac225	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Ac227	1.27E-12	4.83E-17	1.58E-10	3.70E-07	2.80E-01
Ac228			1.49E-14	1.01E-02	3.76E-01
Ag109M					6.56E+00
Ag110					4.14E-09
Ag110M					6.16E-07
Am241			1.19E+05	3.76E+03	2.31E+05 <sup>2</sup>
Am243				7.55E-01	1.80E+01
Am245					1.27E-09
At217	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Ba137M				7.11E+00	2.96E+03
Bi210			4.54E-12	1.11E-06	1.65E+00
Bi211	1.27E-12	4.83E-17	1.58E-10	3.70E-07	2.81E-01
Bi212			4.98E-15	9.20E-03	2.66E+01
Bi213	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Bi214			9.77E-11	7.30E-06	7.72E+00



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CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Bk249					8.73E-05
Bk250					8.68E-08
C14					1.77E+00
Cd109					6.55E+00
Cd113M					7.91E-07
Ce144				8.72E-13	3.70E-02
Cf249					5.39E-02
Cf250					3.20E-01
Cf251					1.58E-03
Cf252				3.62E-01	3.58E+01
Cm242					1.56E-03
Cm243					1.12E+00
Cm244				7.46E+02	2.82E+03
Cm245					1.68E+01
Cm246					4.28E-02
Cm247					1.34E-09
Cm248				1.61E-04	3.34E-02
Co58					1.34E-13
Co60				3.56E-01	6.28E+01
Cs134				3.19E-06	6.09E-03
Cs135					2.15E-04
Cs137				7.51E+00	3.12E+03



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CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Es254					8.68E-08
Eu150					3.50E-05
Eu152					1.22E+00
Eu154				2.84E-04	1.10E+00
Eu155				5.28E+01	5.34E+01
Fe55					1.91E-05
Fe59					1.87E-07
Fr221	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Fr223	1.75E-14	6.67E-19	2.19E-12	5.11E-09	3.87E-03
H3					8.65E-01
I129				1.17E-07	1.17E-07
Kr85					1.96E-01
Mn54				1.00E-10	8.51E-04
Nb95					2.41E-09
Nb95M					8.06E-12
Ni59				1.25E-03	1.25E-03
Ni63				1.52E-01	1.52E-01
Np237	5.50E+01		1.70E-02	8.59E+00	6.55E+01
Np239				7.55E-01	2.12E+01
Np240M				1.59E-11	1.19E-06
Pa231	2.09E-11	2.31E-15	2.70E-09	1.68E-06	3.16E-01
Pa233	5.50E+01		1.70E-02	8.59E+00	6.55E+01



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## CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Pa234			1.94E-17	7.42E-06	7.90E-03
Pa234M			1.49E-14	5.71E-03	6.08E+00
Pb209	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Pb210			4.54E-12	1.11E-06	1.65E+00
Pb211	1.27E-12	4.83E-17	1.58E-10	3.70E-07	2.81E-01
Pb212			4.98E-15	9.20E-03	2.66E+01
Pb214			9.77E-11	7.30E-06	7.72E+00
Pd107					3.17E-05
Pm147				1.24E-05	4.80E+00
Po210			4.50E-12	1.11E-06	1.65E+00
Po211	3.55E-15	1.35E-19	4.43E-13	1.04E-09	7.86E-04
Po212			3.19E-15	5.89E-03	1.70E+01
Po213	3.93E-07		3.47E-11	1.28E-05	1.90E+00
Po214			9.77E-11	7.30E-06	7.72E+00
Po215	4.03E-12	4.83E-17	1.58E-10	3.70E-07	2.81E-01
Po216			4.98E-15	9.20E-03	2.66E+01
Po218			9.77E-11	7.30E-06	7.73E+00
Pr144				8.62E-13	3.66E-02
Pu236					1.04E-02
Pu238			8.49E+03	4.87E+05	7.86E+05 <sup>2</sup>
Pu239	5.57E+01	5.55E-02	1.83E+05	9.30E+03	3.44E+05 <sup>2</sup>
Pu240			4.70E+04	2.29E+03	6.63E+04 <sup>2</sup>

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CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Pu241			1.07E+06	6.20E+04	1.37E+06 <sup>2</sup>
Pu242			9.63E-05	3.75E-01	4.87E+02
Pu243					1.34E-09
Pu244				2.09E-11	1.20E-06
Ra223	1.27E-12	4.83E-17	1.58E-10	3.70E-07	5.13E-01
Ra224			4.98E-15	9.20E-03	2.66E+01
Ra225	4.02E-07	4.02E-07	3.55E-11	1.31E-05	1.94E+00
Ra226			9.77E-11	7.30E-06	7.77E+00
Ra228			1.49E-14	1.01E-02	3.76E-01
Rh106				1.84E-10	1.52E-02
Rn219	1.27E-12	4.83E-17	1.58E-10	3.70E-07	2.81E-01
Rn220			4.98E-15	9.20E-03	2.66E+01
Rn222			9.77E-11	7.30E-06	7.73E+00
Ru106				1.84E-10	1.52E-02
Sb125				2.61E-05	5.22E-02
Sb126				2.41E-08	5.78E-05
Sb126M				1.72E-07	4.12E-04
Se79					1.86E-04
Sm151				3.13E-04	6.31E-01
Sn119M					2.44E-06
Sn121M					1.14E-02
Sn126				1.72E-07	4.17E-04



<sup>1</sup>Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

<sup>2</sup>Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Sr90				6.98E+00	2.22E+03
Tc99				4.50E-06	1.78E+01
Te125M				6.37E-06	1.27E-02
Te127					1.07E-07
Te127M					1.09E-07
Th227	1.25E-12	4.77E-17	1.56E-10	3.65E-07	2.77E-01
Th228			4.98E-15	9.20E-03	2.66E+01
Th229	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Th230			1.16E-07	2.35E-03	3.20E-02
Th231	3.29E-07	1.09E-10	4.78E-05	5.84E-03	2.32E+00
Th232			1.02E-13	2.13E-02	4.22E-01
Th234			1.49E-14	5.71E-03	6.08E+00
Ti207	1.27E-12	4.82E-17	1.58E-10	3.69E-07	2.80E-01
Ti208			1.79E-15	3.31E-03	9.55E+00
Ti209	8.67E-09		7.66E-13	2.83E-07	4.19E-02
U232				8.94E-02	2.57E+01
U233	1.42E-03		1.29E+01	3.75E+00	1.22E+03
U234			4.81E-03	2.56E+01	1.07E+02
U235	3.29E-07	1.09E-10	4.78E-05	5.84E-03	2.33E+00
U236			9.17E-04	4.78E-02	5.72E-02
U237			1.28E+00	1.52E+00	8.66E+00
U238			1.49E-14	5.71E-03	6.08E+00



<sup>1</sup>Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

<sup>2</sup>Data include undecayed curies from the RFETS residues from the following radioisotopes: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
U240				1.59E-11	1.19E-06
Y90				6.98E+00	2.22E+03
Zn65					5.36E-09
<b>Total by Site</b>	<b>1.66E+02</b>	<b>5.55E-02</b>	<b>1.43E+06</b>	<b>5.65E+05</b>	<b>2.82E+06<sup>2</sup></b>

ABBREVIATIONS

ARCO ARCO Medical Center, Pennsylvania  
 ARMY US Army Materiel Command  
 ETEC Energy Technology Engineering Center  
 HANF Hanford  
 INEL Idaho National Engineering Laboratory  
 KAPL Knolls Atomic Power Laboratory  
 LANL Los Alamos National Laboratory  
 LBL Lawrence Berkeley Laboratory  
 LLNL Lawrence Livermore National Laboratory  
 Mound Mound Facility  
 MURR University of Missouri  
 NTS Nevada Test Site  
 ORNL Oak Ridge National Laboratory  
 PAD Paducah  
 PANT Pantex  
 RFETS Rocky Flats Environmental Technology Site  
 SRS Savannah River Site

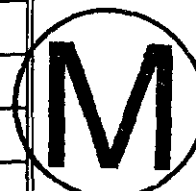


<sup>1</sup>Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

<sup>2</sup>Data include undecayed curies from the RFETS residues from the following radioisotopes: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

**RH Curies on a Site-by-Site<sup>1</sup> Basis  
(Decayed to the End of 1995)**

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Ac225	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Ac227	1.05E-16	1.70E-05	2.61E-07	3.82E-09	4.60E-07
Ac228		1.60E-03	3.87E-05		
Ag110			4.14E-09		9.88E-10
Ag110M			3.11E-07		7.43E-08
Am241	5.85E-02	1.93E+02	4.68E+01	5.07E-02	
Am243			6.91E-04		
Am245					
At217	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Ba137M	2.48E+00	6.61E+03	1.80E+03	5.40E+01	1.28E+02
Bi210		2.33E-07	6.06E-12	1.87E-16	5.61E-17
Bi211	1.05E-16	1.70E-05	2.61E-07	1.35E-18	4.60E-07
Bi212		1.49E-03	2.65E-05		
Bi213	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Bi214		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Bk249					
C14			4.00E-02		
Cd113M			1.15E-07		8.88E-07
Ce144			3.98E+00	1.56E+00	1.60E-02
Cf249					
Cf250					
Cf252					
Cm243			1.45E-02		



<sup>1</sup>Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Cm244			9.63E-02		
Cm245					
Cm246					
Cm248					
Co58			4.37E-11		
Co60	2.30E+00	3.36E+02	1.30E+01	2.75E-01	4.17E+00
Cr51			1.08E-05		
Cs134			5.38E+01	4.73E+00	2.42E-02
Cs135			2.36E-05		1.91E-04
Cs137	2.62E+00	6.98E+03	1.90E+03	5.71E+01	1.35E+02
Eu152			1.14E-01		5.09E-04
Eu154			7.90E-01	1.40E+00	3.50E-02
Eu155			3.35E-01	1.81E-01	1.77E+00
Fe55			5.96E-01		
Fr221	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Fr223	1.45E-18	2.35E-07	3.60E-09	1.86E-20	6.34E-09
H3			1.43E-01		
Kr 85			5.95E+00		
Mn54			8.30E-02		
Nb95			5.28E-12		2.14E-14
Nb95M			1.76E-14		7.15E-17
Ni63			3.50E+00		
Np237	2.26E-08	1.58E-03	8.10E-04	2.25E-08	
Np239			6.91E-04		

<sup>1</sup>Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.



**RH-TRU Curies on a Site-by-Site Basis (continued)**

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Np240M					
Pa231	6.68E-15	6.21E-05	2.24E-06	7.51E-17	2.39E-06
Pa233	2.26E-08	1.58E-03	8.10E-04	2.25E-08	
Pa234		1.33E-05	1.80E-06	4.48E-18	2.60E-08
Pa234M		1.03E-02	1.38E-03	3.45E-15	2.00E-05
Pb209	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Pb210		2.33E-07	6.06E-12	1.87E-16	5.61E-17
Pb211	1.05E-16	1.70E-05	2.61E-07	1.35E-18	4.60E-07
Pb212		1.49E-03	2.65E-05		
Pb214		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Pd107			3.49E-06		2.83E-05
Pm147			1.49E+01	4.34E+00	1.13E+01
Po210		2.33E-07	4.06E-12	8.21E-17	1.60E-17
Po211	2.94E-19	4.77E-08	7.30E-10	3.78E-21	1.29E-09
Po212		9.54E-04	1.70E-05		
Po213	3.00E-18	5.33E-04	1.72E-04	4.02E-18	
Po214		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Po215	1.05E-16	1.70E-05	2.61E-07	1.35E-18	4.60E-07
Po216		1.49E-03	2.65E-05		
Po218		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Pr144			3.93E+00	1.54E+00	1.58E-02
Pu238		4.67E+01	6.09E+01	9.27E-01	3.90E+00
Pu239	4.00E-01	3.35E+02	2.98E+01	3.30E-03	9.28E+01
Pu240		1.67E+02	2.48E+01	3.10E-03	

<sup>1</sup>Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.



RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Pu241		4.67E+03	4.81E+01	7.77E-01	
Pu242		4.92E-03	1.01E-03	1.56E-05	
Pu244					
Ra223	1.05E-16	1.70E-05	2.61E-07	1.35E-18	4.60E-07
Ra224		1.49E-03	2.65E-05		
Ra225	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Ra226		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Ra228		1.60E-03	3.87E-05	2.37E-17	
Rh106			6.65E-02	4.98E-01	3.38E-01
Rn219	1.05E-16	1.70E-05	2.61E-07	1.35E-18	4.60E-07
Rn220		1.49E-03	2.65E-05		
Rn222		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Ru106			6.65E-02	4.98E-01	3.38E-01
Sb125			9.81E-01	5.33E-01	2.79E+00
Sb126			6.35E-06		5.15E-05
Sb126M			4.53E-05		3.68E-04
Se79			2.05E-05		1.66E-04
Sm151			7.53E-02		5.82E-01
Sn119M			2.33E-06		5.20E-07
Sn121M			1.36E-03		1.09E-02
Sn126			4.53E-05		3.68E-04
Sr89			6.64E-04		
Sr90	2.62E+00	6.46E+03	1.70E+03	5.70E+01	1.24E+02
Ta182			1.49E-07		

<sup>1</sup>Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.



## RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Tc99			1.18E-03		9.54E-03
Te125M			2.39E-01	1.30E-01	6.88E-01
Te127			5.79E-09		1.39E-10
Te127M			5.91E-09		1.42E-10
Th227	1.03E-16	1.68E-05	2.57E-07	1.33E-18	4.53E-07
Th228		1.49E-03	2.65E-05		
Th229	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Th230		2.42E-04	1.37E-06	4.36E-11	5.01E-11
Th231	4.73E-10	1.46E-01	6.42E-03	4.53E-12	8.78E-03
Th232		1.95E-03	7.51E-05	4.68E-21	
Th234		1.03E-02	1.38E-03	3.45E-15	2.00E-05
Ti207	1.05E-16	1.70E-05	2.60E-07	1.35E-18	4.58E-07
Ti208		5.35E-04	9.52E-06		
Ti209	6.63E-20	1.18E-05	3.80E-06	8.88E-20	
U232					
U233	6.55E-14	4.15E-01	3.91E-01	7.62E-14	
U234		1.29E+00	1.51E-01	4.98E-06	1.11E-05
U235	4.73E-10	1.46E-01	5.38E-03	4.53E-12	8.78E-03
U236		8.63E-05	3.52E-06	1.24E-10	
U237		1.14E-01	1.18E-03	1.91E-05	
U238		1.03E-02	3.57E-03	3.45E-15	2.00E-05
U240					
Y90	2.62E+00	6.46E+03	1.70E+03	5.70E+01	1.24E+02
Zr93			2.65E-04		3.40E-03

<sup>1</sup>Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.





**RH-TRU Curies on a Site-by-Site Basis (continued)**

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Zr95			2.38E-12		9.64E-15
<b>Total by Site</b>	<b>1.31E+01</b>	<b>3.23E+04</b>	<b>7.40E+03</b>	<b>2.43E+02</b>	<b>6.30E+02</b>

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
Ac225	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Ac227	9.88E-13	2.81E-03	4.20E-13	2.77E-20		2.82E-03
Ac228	3.63E-18	8.70E-02				8.87E-02
Ag110						5.12E-09
Ag110M						3.85E-07
Am241	4.85E-01	2.42E+02	6.79E-02	1.02E-02	5.39E-01	4.83E+02
Am243		9.98E-05	1.60E-05			8.07E-04
Am245		8.61E-16				8.61E-16
At217	8.80E-14	5.40E-02	2.96E-15	6.40E-18	5.77E-03	6.05E-02
Ba137M		9.25E+03	6.49E+00		5.06E+01	1.79E+04
Bi210		9.40E-11	1.24E-16		1.51E-12	2.33E-07
Bi211	9.88E-13	2.81E-03	4.20E-13	4.20E-13		2.82E-03
Bi212	2.08E-18	1.68E+00				1.68E+00
Bi213	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Bi214		6.25E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Bk249		5.94E-11				5.94E-11
C14		6.11E+00				6.15E+00
Cd113M						1.00E-06

<sup>1</sup>Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.



**RH-TRU Curies on a Site-by-Site Basis (continued)**

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
Ce144		1.20E+01				1.75E+01
Cf249		1.34E-02				1.34E-02
Cf250	1.81E-01					1.81E-01
Cf252		3.86E+00				3.86E+00
Cm243		1.48E+02				1.48E+02
Cm244	1.55E+02	9.44E+02	4.68E+00			1.10E+03
Cm245		4.39E-06				4.39E-06
Cm246	3.95E-04					3.95E-04
Cm248		6.13E-04				6.13E-04
Co58						4.37E-11
Co60		6.14E+02				9.70E+02
Cr 51						1.08E-05
Cs134		9.57E+00				6.81E+01
Cs135						2.15E-04
Cs137		9.78E+03	6.86E+00		5.35E+01	1.89E+04
Eu152		3.66E+03				3.66E+03
Eu154		1.77E+03				1.78E+03
Eu155		3.51E+02				3.53E+02
Fe55						5.96E-01
Fr221	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Fr223	1.36E-14	3.87E-05	5.80E-15	3.82E-22		3.90E-05
H3		7.71E-02	1.39E-02			2.34E-01
Kr85						5.95E+00
Mn54						8.30E-02

<sup>1</sup>Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.



RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
Nb95		3.15E-03				3.15E-03
Nb95M		2.46E-06				2.46E-06
Ni63						3.50E+00
Np237	3.19E-06	5.07E-04	1.43E-05	1.00E-08	1.49E-06	2.92E-03
Np239		9.98E-05	1.60E-05			8.07E-04
Np240M		6.62E-11				6.62E-11
Pa231	6.39E-12	2.07E-02	2.67E-11	5.21E-19		2.08E-02
Pa233	3.19E-06	5.07E-04	1.75E-05	1.00E-08	1.49E-06	2.92E-03
Pa234	3.31E-21	4.38E-03				4.39E-03
Pa234M	2.54E-18	3.37E+00				3.38E+00
Pb209	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Pb210		9.40E-11	1.24E-16		1.51E-12	2.33E-07
Pb211	9.88E-13	2.81E-03	4.20E-13	2.46E-12		2.82E-03
Pb212	2.08E-18	1.68E+00				1.68E+00
Pb214		6.25E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Pd107						3.18E-05
Pm147	1.53E+00		1.34E+00			3.34E+01
Po210		9.40E-11	3.40E-17		1.51E-12	2.33E-07
Po211	2.76E-15	7.86E-06	1.18E-15	5.38E-15		7.91E-06
Po212	1.34E-18	1.07E+00				1.07E+00
Po213	8.61E-14	5.28E-02	2.89E-15	6.26E-18	7.28E-15	5.35E-02
Po214	1.91E-15	6.31E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Po215	9.88E-13	2.81E-03	4.20E-13	2.77E-20		2.82E-03
Po216	2.08E-18	1.68E+00		1.01E-02		1.69E+00

<sup>1</sup>Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.



RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
Po218		6.25E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Pr144		1.51E+01				2.05E+01
Pu238		2.81E+01	8.83E+00	4.92E-06	1.98E+01	1.69E+02
Pu239	2.36E+00	9.85E+01	1.06E-02	2.00E-06		5.59E+02
Pu240	2.54E-01	1.07E+00	5.06E-04			1.93E+02
Pu241	6.60E-05	3.97E-07				4.71E+03
Pu242	4.27E-09					5.95E-03
Pu244		6.63E-11				6.63E-11
Ra223	9.88E-13	2.81E-03	4.20E-13	2.77E-20		2.82E-03
Ra224	2.08E-18	1.68E+00				1.68E+00
Ra225	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Ra226		6.25E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Ra228	3.63E-18	8.70E-02				8.87E-02
Rh106		3.21E+01				3.30E+01
Rn219	9.88E-13	2.81E-03	4.20E-13	2.77E-20		2.82E-03
Rn220	2.08E-18	1.68E+00				1.68E+00
Rn222		6.25E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Ru106		3.21E+01				3.30E+01
Sb125						4.30E+00
Sb126						5.78E-05
Sb126M						4.13E-04
Se79						1.86E-04
Sm151						6.58E-01
Sn119M						2.85E-06

Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.





**RH-TRU Curies on a Site-by-Site Basis (continued)**

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
Sn121M						1.23E-02
Sn126						4.13E-04
Sr89						6.64E-04
Sr90		3.52E+04	6.85E+00		1.96E+01	4.36E+04
Ta182						1.49E-07
Tc99	1.48E-04					1.09E-02
Te125M						1.06E+00
Te127						5.93E-09
Te127M						6.05E-09
Th227	9.74E-13	2.77E-03	4.14E-13	2.73E-20		2.79E-03
Th228	2.08E-18	1.68E+00				1.68E+00
Th229	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Th230		1.98E-07	1.13E-10	2.54E-16	1.92E-08	2.43E-04
Th231	3.71E-08	1.86E+02	1.26E-06	9.85E-15		1.86E+02
Th232	1.24E-17	9.89E-02	1.24E-22			1.01E-01
Th234	2.54E-18	3.37E+00				3.38E+00
Tl207	9.85E-13	2.80E-03	4.19E-13	2.76E-20		2.82E-03
Tl208	7.49E-19	6.02E-01				6.02E-01
Tl209	1.90E-15	1.17E-03	6.39E-17	1.38E-19	1.61E-16	1.18E-03
U232		1.76E+00				1.76E+00
U233	1.40E-10	5.73E+01	6.26E-11	6.66E-14	2.76E-11	5.81E+01
U234	2.02E-23	2.02E-03	2.51E-05	2.81E-11	4.94E-04	1.45E+00
U235	3.71E-08	1.86E+02	1.26E-06	9.85E-15		1.86E+02
U236	5.24E-08	2.32E-07	7.54E-12			9.01E-05

<sup>1</sup>Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.



**RH-TRU Curies on a Site-by-Site Basis (continued)**

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
U237	1.62E-09	9.74E-12				1.16E-01
U238	2.54E-18	3.37E+00				3.38E+00
U240		6.62E-11				6.62E-11
Y90		3.52E+04	6.85E+00		1.96E+01	4.36E+04
Zr93						3.67E-03
Zr95		3.31E-04				3.31E-04
<b>Total by Site</b>	<b>1.60E+02</b>	<b>9.79E+04</b>	<b>4.20E+01</b>	<b>2.03E-02</b>	<b>1.64E+02</b>	<b>1.39E+05</b>

ABBREVIATIONS

ETEC Energy Technology Engineering Center  
HANF Hanford  
INEL Idaho National Engineering Laboratory  
KAPL Knolls Atomic Power Laboratory  
LANL Los Alamos National Laboratory  
NTS Nevada Test Site  
ORNL Oak Ridge National Laboratory  
SRS Savannah River Site  
SNL/NM Sandia National Laboratory-Albuquerque  
WVDP West Valley Demonstration Plant

<sup>1</sup>Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.