

NOTE: (a) One curie equals 3.7E+10 Becquerels

NOTE: (b) Estimated releases from unmonitored sources

NOTE: (c) Includes separations, waste management, and tritium facilities

NOTE: (d) Savannah River National Laboratory

Data Table 6-16 Radioactive Atmospheric Releases by Source

2014 Radioactive Atmospheric Releases by Source: Units are Curies^(a)

Radionuclide	Calculated ^(b)	Reactors	Separations ^(c)	SRNL ^(d)	Total
Gases and Vapors					
H-3 (oxide)	2.35E+02	9.04E+02	2.26E+04		2.38E+04
H-3 (elemental)			3.49E+03		3.49E+03
H-3 Total	2.35E+02	9.04E+02	2.61E+04		2.73E+04
C-14	1.83E-06		2.08E-01		2.08E-01
Kr-85			6.46E+03		6.46E+03
I-129	6.22E-05		2.14E-03	2.01E-06	2.21E-03
Particles					
Ag-110m	1.48E-11				1.48E-11
Am-241	1.42E-05	0.00E+00	4.87E-06		1.91E-05
Am-242m	6.19E-10				6.19E-10
Am-243	1.25E-08				1.25E-08
Ce-141	4.94E-11				4.94E-11
Ce-144	6.50E-06				6.50E-06
Cf-249	3.74E-08				3.74E-08
Cf-251	3.04E-08				3.04E-08
Cm-242	5.12E-10				5.12E-10
Cm-243	3.45E-08				3.45E-08
Cm-244	2.79E-07	0.00E+00	1.52E-07		4.31E-07
Cm-245	2.97E-08				2.97E-08
Cm-246	4.90E-09				4.90E-09
Cm-247	3.30E-08				3.30E-08
Co-60	4.30E-06	0.00E+00	0.00E+00	0.00E+00	4.30E-06
Cs-134	4.31E-07				4.31E-07
Cs-137	4.27E-03	3.43E-07	1.27E-02	0.00E+00	1.70E-02
Eu-152	5.43E-07				5.43E-07
Eu-154	7.19E-07				7.19E-07
Eu-155	2.22E-06				2.22E-06
F-18	2.00E-02				2.00E-02
Mn-54	4.84E-07				4.84E-07
Nb-94	2.42E-07				2.42E-07
Nb-95	3.63E-07				3.63E-07
Ni-59	2.91E-07				2.91E-07
Ni-63	2.00E-06				2.00E-06
Np-237	7.09E-06	0.00E+00	0.00E+00		7.09E-06
Pa-233	1.42E-06				1.42E-06
Pb-212	8.43E-07				8.43E-07
Pb-214	8.84E-13				8.84E-13
Pm-147	2.89E-06				2.89E-06
Pm-148m	1.90E-12				1.90E-12
Pr-144	2.00E-08				2.00E-08
Pu-236	1.83E-10				1.83E-10
Pu-238	3.23E-05	3.18E-11	1.02E-05		4.25E-05
Pu-239	3.17E-05	2.12E-11	1.10E-05		4.27E-05

2014 Radioactive Atmospheric Releases by Source: Units are Curies^(a)

Radionuclide	Calculated ^(b)	Reactors	Separations ^(c)	SRNL ^(d)	Total
Particles					
Pu-240	7.73E-06				7.73E-06
Pu-241	2.09E-04				2.09E-04
Pu-242	1.56E-08				1.56E-08
Ra-226	2.73E-07				2.73E-07
Ra-228	2.65E-07				2.65E-07
Rh-106	1.19E-08				1.19E-08
Ru-103	5.11E-10				5.11E-10
Ru-106	3.04E-06				3.04E-06
Sb-125	1.28E-06				1.28E-06
Sb-126	1.70E-07				1.70E-07
Se-79	4.90E-09				4.90E-09
Sm-151	2.89E-06				2.89E-06
Sn-123	6.66E-12				6.66E-12
Sn-126	1.70E-07				1.70E-07
Sr-89	5.18E-10				5.18E-10
Sr-90	9.47E-05	0.00E+00	3.18E-06		9.79E-05
Tc-99	1.94E-06				1.94E-06
Te-127	1.04E-11				1.04E-11
Te-129	1.05E-12				1.05E-12
Th-228	2.17E-09	0.00E+00	0.00E+00		2.17E-09
Th-229	9.28E-10				9.28E-10
Th-230	9.19E-11	5.07E-09	6.75E-07		6.80E-07
Th-231	2.12E-04				2.12E-04
Th-232	8.12E-12	1.15E-09	3.28E-09		4.44E-09
Tl-208	1.41E-06				1.41E-06
U-232	3.19E-09				3.19E-09
U-233	3.93E-07				3.93E-07
U-234	6.10E-07	1.41E-09	8.77E-06		9.38E-06
U-235	5.68E-09	0.00E+00	2.21E-07		2.27E-07
U-236	3.01E-08				3.01E-08
U-238	2.11E-07	1.18E-09	1.27E-05		1.29E-05
Y-90	9.47E-05				9.47E-05
Y-91	7.98E-10				7.98E-10
Zn-65	1.96E-06				1.96E-06
Zr-95	1.22E-07				1.22E-07
Unidentified alpha	1.03E-04	1.24E-07	0.00E+00	6.85E-07	1.04E-04
Unidentified beta	1.42E-03	8.39E-05	6.40E-04	1.95E-06	2.15E-03