

Emergency Plan Isotopes and Quantities - July 2014

Atomic No.	Material	Release Fraction	Curies
89	Actinium 228	0.001	4,000
95	Americium 241	0.001	2
95	Americium 242	0.001	2
95	Americium 243	0.001	2
51	Antimony 124	0.01	4,000
51	Antimony 126	0.01	6,000
56	Barium 133	0.01	10,000
56	Barium 140	0.01	30,000
56	Bismuth 207	0.01	5,000
56	Bismuth 210	0.01	600
49	Cadmium 109	0.01	1,000
49	Cadmium 113	0.01	80
20	Calcium 45	0.01	20,000
98	Californium 252	0.001	9
6	Carbon 14	0.01 (non CO ₂)	50,000
58	Cerium 141	0.01	10,000
58	Cerium 144	0.01	300
55	Cesium 134	0.01	2,000
55	Cesium 137	0.01	3,000
17	Chlorine 36	0.5	100
24	Chromium 51	0.01	300,000
27	Cobalt 60	0.001	5,000
29	Copper 64	0.01	200,000
96	Curium 242	0.001	60
96	Curium 243	0.001	3
96	Curium 244	0.001	4

Atomic No.	Material	Release Fraction	Curies
96	Curium 245	0.001	2
63	Europium 152	0.01	500
63	Europium 154	0.01	400
63	Europium 155	0.01	3,000
64	Gadolinium 153	0.01	5,000
32	Germanium 68	0.01	2,000
79	Gold 198	0.01	30,000
105	Hafnium 172	0.01	400
105	Hafnium 181	0.01	7,000
67	Holmium 166m	0.01	100
1	Hydrogen 3	0.5	20,000
53	Iodine 125	0.5	10
53	Iodine 131	0.5	10
49	Indium 114m	0.01	1,000
49	Iridium 192	0.001	40,000
26	Iron 55	0.01	40,000
26	Iron 59	0.01	7,000
36	Krypton 85	1.0	6,000,000
82	Lead 210	0.01	8
25	Manganese 56	0.01	60,000
80	Mercury 203	0.01	10,000
42	Molybdenum 99	0.01	30,000
93	Neptunium 237	0.001	2
28	Nickel 63	0.01	20,000
41	Niobium 94	0.01	300
15	Phosphorus 32	0.5	100

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15	Phosphorus 33	0.5	1,000
84	Polonium 210	0.01	10
19	Potassium 42	0.01	9,000
61	Promethium 145	0.01	4,000
61	Promethium 147	0.01	4,000
88	Radium 226	0.001	100
44	Ruthenium 106	0.01	200
62	Samarium 151	0.01	4,000
21	Scandium 46	0.01	3,000
34	Selenium 75	0.01	10,000
47	Silver 110m	0.01	1,000
11	Sodium 22	0.01	9,000
11	Sodium 24	0.01	10,000
38	Strontium 89	0.01	3,000
38	Strontium 90	0.01	90
16	Sulfur 35	0.5	900
43	Technetium 99	0.01	10,000
43	Technetium 99m	0.01	400,000
52	Tellurium 127m	0.01	5,000
52	Tellurium 129m	0.01	5,000
65	Terbium 160	0.01	4,000
69	Thulium 170	0.01	4,000
50	Tin 113	0.01	10,000
50	Tin 123	0.01	3,000
50	Tin 126	0.01	1,000
22	Titanium 44	0.01	100

Atomic No.	Material	Release Fraction	Curies
23	Vanadium 48	0.01	7,000
54	Xenon 133	1.0	900,000
39	Yttrium 91	0.01	2,000
30	Zinc 65	0.01	5,000
40	Zirconium 93	0.01	400
40	Zirconium 95	0.01	5,000
	Any other beta-gamma emitter	0.01	10,000
	Mixed fission products	0.01	1,000
	Mixed corrosion products	0.01	10,000
	Contaminated equipment beta-gamma	0.001	10,000
	Irradiated material, any form other than solid noncombustible	0.01	1,000
	Irradiated material solid noncombustible	0.001	10,000
	Mixed radiological waste, beta-gamma	0.01	1,000
	Packaged mixed waste, beta-gamma	0.001	10,000
	Any other alpha emitter	0.001	2
	Contaminated equipment alpha	0.0001	20
	Package waste, alpha	0.0001	20