

§ 30.71

10 CFR Ch. I (1–1–14 Edition)

§ 30.71 Schedule B.

Byproduct material	Microcuries	Byproduct material	Microcuries
Antimony 122 (Sb 122)	100	Iridium 194 (Ir 194)	100
Antimony 124 (Sb 124)	10	Iron 52 (Fe 52)	10
Antimony 125 (Sb 125)	10	Iron 55 (Fe 55)	100
Arsenic 73 (As 73)	100	Iron 59 (Fe 59)	10
Arsenic 74 (As 74)	10	Krypton 85 (Kr 85)	100
Arsenic 76 (As 76)	10	Krypton 87 (Kr 87)	10
Arsenic 77 (As 77)	100	Lanthanum 140 (La 140)	10
Barium 131 (Ba 131)	100	Lutetium 177 (Lu 177)	100
Barium 133 (Ba 133)	10	Manganese 52 (Mn 52)	10
Barium 140 (Ba 140)	10	Manganese 54 (Mn 54)	10
Bismuth 210 (Bi 210)	1	Manganese 56 (Mn 56)	10
Bromine 82 (Br 82)	10	Mercury 197m (Hg 197m)	100
Cadmium 109 (Cd 109)	10	Mercury 197 (Hg 197)	100
Cadmium 115m (Cd 115m)	10	Mercury 203 (Hg 203)	10
Cadmium 115 (Cd 115)	100	Molybdenum 99 (Mo 99)	100
Calcium 45 (Ca 45)	10	Neodymium 147 (Nd 147)	100
Calcium 47 (Ca 47)	10	Neodymium 149 (Nd 149)	100
Carbon 14 (C 14)	100	Nickel 59 (Ni 59)	100
Cerium 141 (Ce 141)	100	Nickel 63 (Ni 63)	10
Cerium 143 (Ce 143)	100	Nickel 65 (Ni 65)	100
Cerium 144 (Ce 144)	1	Niobium 93m (Nb 93m)	10
Cesium 129 (Cs 129)	100	Niobium 95 (Nb 95)	10
Cesium 131 (Cs 131)	1,000	Niobium 97 (Nb 97)	10
Cesium 134m (Cs 134m)	100	Osmium 185 (Os 185)	10
Cesium 134 (Cs 134)	1	Osmium 191m (Os 191m)	100
Cesium 135 (Cs 135)	10	Osmium 191 (Os 191)	100
Cesium 136 (Cs 136)	10	Osmium 193 (Os 193)	100
Cesium 137 (Cs 137)	10	Palladium 103 (Pd 103)	100
Chlorine 36 (Cl 36)	10	Palladium 109 (Pd 109)	100
Chlorine 38 (Cl 38)	10	Phosphorus 32 (P 32)	10
Chromium 51 (Cr 51)	1,000	Platinum 191 (Pt 191)	100
Cobalt 57 (Co 57)	100	Platinum 193m (Pt 193m)	100
Cobalt 58m (Co 58m)	10	Platinum 193 (Pt 193)	100
Cobalt 58 (Co 58)	10	Platinum 197m (Pt 197m)	100
Cobalt 60 (Co 60)	1	Platinum 197 (Pt 197)	100
Copper 64 (Cu 64)	100	Polonium 210 (Po 210)	0.1
Dysprosium 165 (Dy 165)	10	Potassium 42 (K 42)	10
Dysprosium 166 (Dy 166)	100	Potassium 43 (K 43)	10
Erbium 169 (Er 169)	100	Praseodymium 142 (Pr 142)	100
Erbium 171 (Er 171)	100	Praseodymium 143 (Pr 143)	100
Europium 152 9.2 h (Eu 152 9.2 h)	100	Promethium 147 (Pm 147)	10
Europium 152 13 yr (Eu 152 13 yr)	1	Promethium 149 (Pm 149)	10
Europium 154 (Eu 154)	100	Rhenium 186 (Re 186)	100
Europium 155 (Eu 155)	10	Rhenium 188 (Re 188)	100
Fluorine 18 (F 18)	1,000	Rhodium 103m (Rh 103m)	100
Gadolinium 153 (Gd 153)	10	Rhodium 105 (Rh 105)	100
Gadolinium 159 (Gd 159)	100	Rubidium 81 (Rb 81)	10
Gallium 67 (Ga 67)	100	Rubidium 86 (Rb 86)	10
Gallium 72 (Ga 72)	10	Rubidium 87 (Rb 87)	10
Germanium 68 (Ge 68)	10	Ruthenium 97 (Ru 97)	100
Germanium 71 (Ge 71)	100	Ruthenium 103 (Ru 103)	10
Gold 195 (Au 195)	10	Ruthenium 105 (Ru 105)	10
Gold 198 (Au 198)	100	Ruthenium 106 (Ru 106)	1
Gold 199 (Au 199)	100	Samarium 151 (Sm 151)	10
Hafnium 181 (Hf 181)	10	Samarium 153 (Sm 153)	100
Holmium 166 (Ho 166)	100	Scandium 46 (Sc 46)	10
Hydrogen 3 (H 3)	1,000	Scandium 47 (Sc 47)	100
Indium 111 (In 111)	100	Scandium 48 (Sc 48)	10
Indium 113m (In 113m)	100	Selenium 75 (Se 75)	10
Indium 114m (In 114m)	10	Silicon 31 (Si 31)	100
Indium 115m (In 115m)	100	Silver 105 (Ag 105)	10
Indium 115 (In 115)	10	Silver 110m (Ag 110m)	1
Iodine 123 (I 123)	100	Silver 111 (Ag 111)	100
Iodine 125 (I 125)	1	Sodium 22 (Na 22)	10
Iodine 126 (I 126)	1	Sodium 24 (Na 24)	10
Iodine 129 (I 129)	0.1	Strontium 85 (Sr 85)	10
Iodine 131 (I 131)	1	Strontium 89 (Sr 89)	1
Iodine 132 (I 132)	10	Strontium 90 (Sr 90)	0.1
Iodine 133 (I 133)	1	Strontium 91 (Sr 91)	10
Iodine 134 (I 134)	10	Strontium 92 (Sr 92)	10
Iodine 135 (I 135)	10	Sulphur 35 (S 35)	100
Iridium 192 (Ir 192)	10	Tantalum 182 (Ta 182)	10
		Technetium 96 (Tc 96)	10
		Technetium 97m (Tc 97m)	100

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Byproduct material	Microcuries
Technetium 97 (Tc 97)	100
Technetium 99m (Tc 99m)	100
Technetium 99 (Tc 99)	10
Tellurium 125m (Te 125m)	10
Tellurium 127m (Te 127m)	10
Tellurium 127 (Te 127)	100
Tellurium 129m (Te 129m)	10
Tellurium 129 (Te 129)	100
Tellurium 131m (Te 131m)	10
Tellurium 132 (Te 132)	10
Terbium 160 (Tb 160)	10
Thallium 200 (Tl 200)	100
Thallium 201 (Tl 201)	100
Thallium 202 (Tl 202)	100
Thallium 204 (Tl 204)	10
Thulium 170 (Tm 170)	10
Thulium 171 (Tm 171)	10
Tin 113 (Sn 113)	10
Tin 125 (Sn 125)	10
Tungsten 181 (W 181)	10
Tungsten 185 (W 185)	10
Tungsten 187 (W 187)	100
Vanadium 48 (V 48)	10
Xenon 131m (Xe 131m)	1,000
Xenon 133 (Xe 133)	100
Xenon 135 (Xe 135)	100
Ytterbium 175 (Yb 175)	100
Yttrium 87 (Y 87)	10
Yttrium 88 (Y 88)	10
Yttrium 90 (Y 90)	10
Yttrium 91 (Y 91)	10
Yttrium 92 (Y 92)	100
Yttrium 93 (Y 93)	100
Zinc 65 (Zn 65)	10
Zinc 69m (Zn 69m)	100
Zinc 69 (Zn 69)	1,000
Zirconium 93 (Zr 93)	10
Zirconium 95 (Zr 95)	10
Zirconium 97 (Zr 97)	10
Any byproduct material not listed above other than alpha emitting byproduct material	0.1

[35 FR 6427, Apr. 22, 1970, as amended at 36 FR 16898, Aug. 26, 1971; 59 FR 5519, Feb. 7, 1994; 72 FR 55926, Oct. 1, 2007]

§30.72 Schedule C—Quantities of radioactive materials requiring consideration of the need for an emergency plan for responding to a release.

Radioactive material ¹	Release fraction	Quantity (curies)
Actinium-228	0.001	4,000
Americium-241 .....	.001	2
Americium-242 .....	.001	2
Americium-243 .....	.001	2
Antimony-124 .....	.01	4,000
Antimony-126 .....	.01	6,000
Barium-133 .....	.01	10,000
Barium-140 .....	.01	30,000
Bismuth-207 .....	.01	5,000
Bismuth-210 .....	.01	600
Cadmium-109 .....	.01	1,000
Cadmium-113 .....	.01	80
Calcium-45 .....	.01	20,000
Californium-252 .....	.001	9 (20 mg)
Carbon-14 (non-carbon dioxide) .....	.01	50,000
Cerium-141 .....	.01	10,000
Cerium-144 .....	.01	300

Radioactive material ¹	Release fraction	Quantity (curies)
Cesium-134 .....	.01	2,000
Cesium-137 .....	.01	3,000
Chlorine-36 .....	.5	100
Chromium-51 .....	.01	300,000
Cobalt-60 .....	.001	5,000
Copper-64 .....	.01	200,000
Curium-242 .....	.001	60
Curium-243 .....	.001	3
Curium-244 .....	.001	4
Curium-245 .....	.001	2
Europium-152 .....	.01	500
Europium-154 .....	.01	400
Europium-155 .....	.01	3,000
Germanium-68 .....	.01	2,000
Gadolinium-153 .....	.01	5,000
Gold-198 .....	.01	30,000
Hafnium-172 .....	.01	400
Hafnium-181 .....	.01	7,000
Holmium-166m .....	.01	100
Hydrogen-3 .....	.5	20,000
Iodine-125 .....	.5	10
Iodine-131 .....	.5	10
Indium-114m .....	.01	1,000
Iridium-192 .....	.001	40,000
Iron-55 .....	.01	40,000
Iron-59 .....	.01	7,000
Krypton-85	1.0	6,000,000
Lead-210 .....	.01	8
Manganese-56 .....	.01	60,000
Mercury-203 .....	.01	10,000
Molybdenum-99 .....	.01	30,000
Neptunium-237 .....	.001	2
Nickel-63 .....	.01	20,000
Niobium-94 .....	.01	300
Phosphorus-32 .....	.5	100
Phosphorus-33 .....	.5	1,000
Polonium-210 .....	.01	10
Potassium-42 .....	.01	9,000
Promethium-145 .....	.01	4,000
Promethium-147 .....	.01	4,000
Radium-226	0.001	100
Ruthenium-106 .....	.01	200
Samarium-151 .....	.01	4,000
Scandium-46 .....	.01	3,000
Selenium-75 .....	.01	10,000
Silver-110m .....	.01	1,000
Sodium-22 .....	.01	9,000
Sodium-24 .....	.01	10,000
Strontium-89 .....	.01	3,000
Strontium-90 .....	.01	90
Sulfur-35 .....	.5	900
Technitium-99 .....	.01	10,000
Technitium-99m .....	.01	400,000
Tellurium-127m .....	.01	5,000
Tellurium-129m .....	.01	5,000
Terbium-160 .....	.01	4,000
Thulium-170 .....	.01	4,000
Tin-113 .....	.01	10,000
Tin-123 .....	.01	3,000
Tin-126 .....	.01	1,000
Titanium-44 .....	.01	100
Vanadium-48 .....	.01	7,000
Xenon-133	1.0	900,000
Yttrium-91 .....	.01	2,000
Zinc-65 .....	.01	5,000
Zirconium-93 .....	.01	400
Zirconium-95 .....	.01	5,000
Any other beta-gamma emitter .....	.01	10,000
Mixed fission products .....	.01	1,000
Mixed corrosion products .....	.01	10,000
Contaminated equipment beta-gamma .....	.001	10,000
Irradiated material, any form other than solid noncombustible .....	.01	1,000