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Chapter DHS 157

APPENDIX I

Quantities for Use with Decommissioning under Section DHS 157.15

NOTE: To convert $\mu\text{C}i$ to kBq, multiply the $\mu\text{C}i$ value by 37.

Material	Microcurie
Americium-241	0.01
Antimony-122	100
Antimony-124	10
Antimony-125	10
Arsenic-73	100
Arsenic-74.	10
Arsenic-76.	10
Arsenic-77	100
Barium-131	10
Barium-133	10
Barium-140.	10
Bismuth-210	1
Bromine-82	
Cadmium-109	
Cadmium-115m	
Cadmium-115	
Calcium-45	
Calcium-47	
Carbon-14	
Cerium-141	
Cerium-143	
Cerium-144	1
Cesium-131	
Cesium-134m.	
Cesium-134	
Cesium-135.	
Cesium-136.	
Cesium-137	
Chlorine-36.	
Chlorine-38.	
Chromium-51	
Cobalt-57	
Cobalt-58m	10
Cobalt-58	10
Cobalt-60	
Copper-64	
Dysprosium-165	
Dysprosium-166.	
Erbium-169	
Erbium-171	
Europium-152 (9.2 h)	
Europium-152 (13 yr)	
Europium-154.	
Europium-155.	
Fluorine-18	
Gadolinium-153	

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Gadolinium-159	100
Gallium-72	10
Germanium-68	10
Germanium-71	100
Gold-195	10
Gold-198	100
Gold-199	100
Hafnium-181	
Holmium-166	
Hydrogen-3	
Indium-113m	
Indium-114m	
Indium-115m	
Indium-115	
Iodine-125	
Iodine-126	
Iodine-129	
Iodine-131	
Iodine-132	
Iodine-133	
Iodine-134	
Iodine-135	
Iridium-192	
Iridium-194	
Iron-55	
Iron-59	
Krypton-85	
Krypton-87	
Lanthanum-140	
Lutetium-177	
Manganese-52	
Manganese-54	
Manganese-56.	
Mercury-197m	
Mercury-197	
Mercury-203	10
Molybdenum-99	
Neodymium-147	100
Neodymium-149	100
Nickel-59	100
Nickel-63	10
Nickel-65	100
Niobium-93m	10
Niobium-95	
Niobium-97	
Osmium-185	
Osmium-191m	
Osmium-191	
Osmium-191	
Palladium-103	
Palladium-109	
Phosphorus-32	
Platinum-191	
Platinum-193m	
Platinum-193	100

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Platinum-197m	
Platinum-197	
Plutonium-239	
Polonium-210	0.1
Potassium-42	
Praseodymium-142	
Praseodymium-143	100
Promethium-147	10
Promethium-149	10
Radium-226	0.01
Rhenium-186	100
Rhenium-188	100
Rhodium-103m	100
Rhodium-105	100
Rubidium-86	10
Rubidium-87	10
Ruthenium-97	100
Ruthenium-103	10
Ruthenium-105	10
Ruthenium-106	1
Samarium-151	10
Samarium-153	100
Scandium-46	10
Scandium-47	
Scandium-48	
Selenium-75	
Silicon-31	
Silver-105	
Silver-110m	
Silver-111	
Sodium-22	
Sodium-24	
Strontium-85	
Strontium-89	
Strontium-90.	
Strontium-91	
Strontium-92	10
Sulfur -35	100
Tantalum-182	
Technetium-96	
Technetium-97m	
Technetium-97	
Technetium-99m.	
Technetium-99	
Tellurium-125m	
Tellurium-127m	
Tellurium-127	
Tellurium-129m	
Tellurium-129	
Tellurium-131m	
Tellurium-132	
Terbium-160	
Thallium-200	
Thallium-200	
Thallium-201	
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Thallium-204	10
Thorium (natural)c/	100
Thulium-170	10
Thulium-171	10
Tin-113	
Tin-125	
Tungsten-181	10
Tungsten-185	10
Tungsten-187	100
Uranium (natural)d/	100
Uranium-233	0.01
Uranium-234	0.01
Uranium-235	0.01
Vanadium-48	10
Xenon-131m	
Xenon-133	100
Xenon-135	100
Ytterbium-175	100
Yttrium-90	10
Yttrium-91	10
Yttrium-92	100
Yttrium-93	100
Zinc-65	10
Zinc- 69m	100
Zinc-69	1,000
Zirconium-93	10
Zirconium-95	10
Zirconium-97	10
Any alpha emitting radionuclide not listed above or	
mixtures of alpha emitters of unknown composition	0.01
Any radionuclide other than alpha emitting radionuclides,	
not listed above or mixtures of beta emitters of unknown	
composition	0.1

Note: Where there is involved a combination of isotopes in known amounts, the limit for the combination should be derived as follows: Determine, for each isotope in the combination, the ratio between the quantity present in the combination and the limit otherwise established for the specific isotope when not in combination. The sum of the ratios for all the isotopes in the combination may not exceed "1" — that is, unity.

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 $c/\ Based\ on\ alpha\ disintegration\ rate\ of\ Th\mbox{-}232,\ Th\mbox{-}230\ and\ their\ daughter\ products.$

d/ Based on alpha disintegration rate of U-238, U-234, and U-235