DEPARTMENT OF HEALTH SERVICES

DHS 157 Appendix I

Chapter DHS 157

APPENDIX I

Quantities for Use with Decommissioning under Section DHS 157.15

NOTE: To convert μ Ci to kBq, multiply the μ Ci value by 37.

Material	Microcurie
Americium-241	0.01
Antimony-122	
Antimony-124	
Antimony-125	
Arsenic-73	
Arsenic-74	
Arsenic-76	
Arsenic-77	
Barium-131	
Barium-133	
Barium-140	
Bismuth-210	
Bromine-82	
Cadmium-109	
Cadmium-115m	
Cadmium-115	
Calcium-45	
Calcium-47	
Carbon-14	
Cerium-141	
Cerium-143	
Cerium-144	
Cesium-131	
Cesium-131 Cesium-134m	,
Cesium-134	
Cesium-135	
Cesium-136	
Cesium-137	
Chlorine-36	
Chlorine-38	
Chromium-51	
Cobalt-57	
Cobalt-58m	
Cobalt-58	
Cobalt-58	
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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DHS 157 Appendix I

WISCONSIN ADMINISTRATIVE CODE

Gadolinium-159	
Gallium-72	
Germanium-68	
Germanium-71	
Gold-195	
Gold-198	
Gold-199	
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	
Molybdenum-99	
Neodymium-147	
Neodymium-149	
Nickel-59	
Nickel-63	
Nickel-65	
Niobium-93m	
Niobium-95	
Niobium-97	
Osmium-185	
Osmium-191m	
Osmium-191	
Osmium-191	
Palladium-103	
Palladium-109	
Phosphorus-32	
Platinum-191	
Platinum-193m	
Platinum-193	
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DEPARTMENT OF HEALTH SERVICES

Platinum-197m	
Platinum-197	
Plutonium-239	
Polonium-210	
Potassium-42	
Praseodymium-142	
Praseodymium-143	
Promethium-147	
Promethium-149	
Radium-226	
Rhenium-186	
Rhenium-188	
Rhodium-103m	
Rhodium-105	
Rubidium-86	
Rubidium-87	
Ruthenium-97	
Ruthenium-103	
Ruthenium-105	
Ruthenium-106	
Samarium-151	
Samarium-153	
Scandium-46	
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	
Sulfur -35	
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-201	
Thallium-202 Published under s. 35.93, Stats. Updated on the first day of each month. Entire code is always current. The Regis	
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DHS 157 Appendix I

Register November 2024 No. 827

WISCONSIN ADMINISTRATIVE CODE

Thallium-204	
Thorium (natural)c/	
Thulium-170	
Thulium-171	
Tin-113	
Tin-125	
Tungsten-181	
Tungsten-185	
Tungsten-187	
Uranium (natural)d/	
Uranium-233	
Uranium-234	
Uranium-235	
Vanadium-48	
Xenon-131m	
Xenon-133	
Xenon-135	
Ytterbium-175	
Yttrium-90	
Yttrium-91	
Yttrium-92	
Yttrium-93	
Zinc-65	
Zinc- 69m	
Zinc-69	
Zirconium-93	
Zirconium-95	
Zirconium-97	
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

c/ Based on alpha disintegration rate of Th-232, Th-230 and their daughter products. d/ Based on alpha disintegration rate of U-238, U-234, and U-235

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.