

3701:1-40-17

APPENDIX A

Radionuclide	Kilobecquerel	Microcuries
Americium-241	0.37	0.01
Antimony-122	3700	100
Antimony-124	370	10
Antimony-125	370	10
Arsenic-73	3700	100
Arsenic-74	370	10
Arsenic-76	370	10
Arsenic-77	3700	100
Barium-131	370	10
Barium-133	370	10
Barium-140	370	10
Bismuth-210	37	1
Bromine-82	370	10
Cadmium-109	370	10
Cadmium-115m	370	10
Cadmium-115	3700	100
Calcium-45	370	10
Calcium-47	370	10
Carbon-14	3700	100
Cerium-141	3700	100
Cerium-143	3700	100
Cerium-144	37	1
Cesium-131	37,000	1,000
Cesium-134m	3700	100
Cesium-134	37	1
Cesium-135	370	10
Cesium-136	370	10
Cesium-137	370	10
Chlorine-36	370	10
Chlorine-38	370	10
Chromium-51	37,000	1,000
Cobalt-57	370	10

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Radionuclide	Kilobecquerel	Microcuries
Cobalt-58m	370	10
Cobalt-58	370	10
Cobalt-60	37	1
Copper-64	3700	100
Dysprosium-165	370	10
Dysprosium-166	3700	100
Erbium-169	3700	100
Erbium-171	3700	100
Europium-152 9.2h	3700	100
Europium-152 13 yr	37	1
Europium-154	37	1
Europium-155	370	10
Fluorine-18	37,000	1,000
Gadolinium-153	370	10
Gadolinium-159	3700	100
Gallium-72	370	10
Germanium-71	3700	100
Gold-198	3700	100
Gold-199	3700	100
Hafnium-181	370	10
Holmium-166	3700	100
Hydrogen-3	37,000	1,000
Indium-113m	3700	100
Indium-114m	370	10
Indium-115m	3700	100
Indium-115	370	10
Iodine-125	37	1
Iodine-126	37	1
Iodine-129	3.7	0.1
Iodine-131	37	1
Iodine-132	370	10
Iodine-133	37	1

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Iodine-134	370	10
Iodine-135	370	10
Iridium-192	370	10
Iridium-194	3700	100
Iron-55	3700	100
Iron-59	370	10
Krypton-85	3700	100
Krypton-87	370	10
Lanthanum-140	370	10
Lutetium-177	3700	100
Manganese-52	370	10
Manganese-54	370	10
Manganese-56	370	10
Mercury-197m	3700	100
Mercury-197	3700	100
Mercury-203	370	10
Molybdenum-99	3700	100
Neodymium-147	3700	100
Neodymium-149	3700	100
Nickel-59	3700	100
Nickel-63	370	10
Nickel-65	3700	100
Niobium-93m	370	10
Niobium-95	370	10
Niobium-97	370	10
Osmium-185	370	10
Osmium-191m	3700	100
Osmium-191	3700	100
Osmium-193	3700	100
Palladium-103	3700	100
Palladium-109	3700	100
Phosphorus-32	370	10

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Platinum-191	3700	100
Platinum-193m	3700	100
Platinum-193	3700	100
Platinum-197m	3700	100
Platinum-197	3700	100
Plutonium-239	0.37	0.01
Polonium-210	3.7	0.1
Potassium-42	370	10
Praseodymium-142	3700	100
Praseodymium-143	3700	100
Promethium-147	370	10
Promethium-149	370	10
Radium-226	0.37	0.01
Rhenium-186	3700	100
Rhenium-188	3700	100
Rhodium-103m	3700	100
Rhodium-105	3700	100
Rubidium-86	370	10
Rubidium-87	370	10
Ruthenium-97	3700	100
Ruthenium-103	370	10
Ruthenium-105	370	10
Ruthenium-106	37	1
Samarium-151	370	10
Samarium-153	3700	100
Scandium-46	370	10
Scandium-47	3700	100
Scandium-48	370	10
Selenium-75	370	10
Silicon-31	3700	100
Silver-105	370	10
Silver-110m	37	1

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Silver-111	3700	100
Sodium-24	370	10
Strontium-85	370	10
Strontium-89	37	1
Strontium-90	4.44	0.12
Strontium-91	370	10
Strontium-92	370	10
Sulphur-35	3700	100
Tantalum-182	370	10
Technetium-96	370	10
Technetium-97m	3700	100
Technetium-97	3700	100
Technetium-99m	3700	100
Technetium-99	370	10
Tellurium-125m	370	10
Tellurium127m	370	10
Tellurium-127	3700	100
Tellurium129m	370	10
Tellurium-129	3700	100
Tellurium-131m	370	10
Tellurium-132	370	10
Terbium-160	370	10
Thallium-200	3700	100
Thallium-201	3700	100
Thallium-202	3700	100
Thallium-204	370	10
Thorium (natural) <sup>1</sup>	3700	100
Thulium-170	370	10
Thulium-171	370	10
Tin-113	370	10
Tin-125	370	10
Tungsten-181	370	10

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Radionuclide	Kilobecquerel	Microcuries
Tungsten-185	370	10
Tungsten-187	3700	100
Uranium (natural) <sup>2</sup>	3700	100
Uranium-233	0.37	0.01
Uranium-234--Uranium-235	0.37	0.01
Vanadium-48	370	10
Xenon-131m	37,000	1,000
Xenon-133	3700	100
Xenon-135	3700	100
Ytterbium-175	3700	100
Yttrium-90	370	10
Yttrium-91	370	10
Yttrium-92	3700	100
Yttrium-93	3700	100
Zinc-65	370	10
Zinc-69m	3700	100
Zinc-69	37,000	1,000
Zirconium-93	370	10
Zirconium-95	370	10
Zirconium-97	370	10
Any alpha emitting radionuclide not listed above or mixtures of alpha emitters of unknown composition	0.37	0.01
Any radionuclide other than alpha emitting radionuclides, not listed above or mixtures of beta emitters of unknown composition	3.7	0.1

<sup>1</sup>Based on alpha disintegration rate of Th-232, Th-230 and their progeny.

<sup>2</sup>Based on alpha disintegration rate of U-238, U-234, and U-235.