

Figure: 30 TAC §336.1231(a)

| Element* | Radionuclide** | Category |
|------------------|-----------------|----------|
| Actinium (89) | Ac-227 | I |
| | Ac-228 | I |
| Americium (95) | Am-241 | I |
| | Am-243 | I |
| Antimony (51) | Sb-122 | IV |
| | Sb-124 | III |
| | Sb-125 | III |
| Argon (18) | Ar-37 | |
| | Ar-41 | VI |
| | Ar-41 | II |
| | (uncompressed)† | V |
| Arsenic (33) | As-73 | IV |
| | As-74 | IV |
| | As-76 | IV |
| | As-77 | IV |
| Astatine (85) | At-211 | III |
| Barium (56) | Ba-131 | IV |
| | Ba-133 | II |
| | Ba-140 | III |
| Berkelium (97) | Bk-249 | I |
| Beryllium (4) | Be-7 | IV |
| | Bi-206 | IV |
| Bismuth (83) | Bi-207 | III |
| | Bi-210 | II |
| | Bi-212 | III |
| | Bi-214 | IV |
| Bromine (35) | Br-82 | IV |
| Cadmium (48) | Cd-109 | IV |
| | Cd-115m | III |
| | Cd-115 | IV |
| Calcium (20) | Ca-45 | IV |
| | Ca-47 | IV |
| Californium (98) | Cf-249 | I |
| | Cf-250 | I |
| | Cf-252 | I |
| Carbon (6) | C-14 | IV |
| Cerium (58) | Ce-141 | IV |
| | Ce-143 | IV |
| | Ce-144 | III |
| Cesium (55) | Cs-131 | IV |
| | Cs-134m | III |
| | Cs-134 | III |
| | Cs-135 | IV |
| | Cs-136 | IV |
| | Cs-137 | III |
| Chlorine (17) | Cl-36 | III |
| | Cl-38 | IV |
| Chromium (24) | Cr-51 | IV |
| | Co-56 | III |
| | Co-57 | IV |
| Cobalt (27) | Co-58m | IV |

| | | |
|-----------------|-------------------|-----|
| | Co-58 | IV |
| | Co-60 | III |
| Copper (29) | Cu-64 | IV |
| | Cm-242 | I |
| | Cm-243 | I |
| Curium (96) | Cm-244 | I |
| | Cm-245 | I |
| | Cm-246 | I |
| | Dy-154 | III |
| Dysprosium (66) | Dy-165 | IV |
| | Dy-166 | IV |
| | Er-169 | IV |
| Erbium (68) | Er-171 | IV |
| | Eu-150 | III |
| | Eu-152m | IV |
| Europium (63) | Eu-152 | III |
| | Eu-154 | II |
| | Eu-155 | IV |
| Florine (9) | F-18 | IV |
| | Gd-153 | IV |
| Gadolinium (64) | Gd-159 | IV |
| | Ga-67 | III |
| Galium (31) | Ga-72 | IV |
| Germanium (32) | Ge-71 | IV |
| | Au-193 | III |
| | Au-194 | III |
| Gold (79) | Au-195 | III |
| | Au-196 | IV |
| | Au-198 | IV |
| | Au-199 | IV |
| Hafnium (72) | Hf-181 | IV |
| Holmium (67) | Ho-166 | IV |
| Hydrogen (1) | H-3 (see tritium) | |
| | In-113m | IV |
| Indium (49) | In-114m | III |
| | In-115m | IV |
| | In-115 | IV |
| | I-124 | III |
| | I-125 | III |
| | I-126 | III |
| | I-129 | III |
| Iodine (53) | I-131 | III |
| | I-132 | IV |
| | I-133 | III |
| | I-134 | IV |
| | I-135 | IV |
| | Ir-190 | IV |
| Iridium (77) | Ir-192 | III |
| | Ir-194 | IV |
| | Fe-55 | IV |
| Iron (26) | Fe-59 | IV |
| | Kr-85m | |
| | Kr-85m | |

| | | |
|------------------------------|-----------------|-----|
| | (uncompressed)† | |
| Krypton (36) | Kr-85 | III |
| | Kr-85 | V |
| | (uncompressed)† | III |
| | Kr-87 | VI |
| Lanthanum (57) | Kr-87 | II |
| | (uncompressed)† | V |
| | La-140 | IV |
| | Pb-203 | IV |
| Lead (82) | Pb-210 | II |
| | Pb-212 | II |
| Lutetium (71) | Lu-172 | III |
| | Lu-177 | IV |
| Magnesium (12) | Mg-28 | III |
| Manganese (25) | Mn-52 | IV |
| | Mn-54 | IV |
| | Mn-56 | IV |
| Mercury (80) | Hg-197m | IV |
| | Hg-197 | IV |
| | Hg-203 | IV |
| Mixed fission products (MFP) | | II |
| Molybdenum (42) | Mo-99 | IV |
| Neodymium (60) | Nd-147 | IV |
| | Nd-149 | IV |
| Neptunium (93) | Np-237 | I |
| | Np-239 | I |
| Nickel (28) | Ni-56 | III |
| | Ni-59 | IV |
| | Ni-63 | IV |
| | Ni-65 | IV |
| Niobium (41) | Nb-93m | IV |
| | Nb-95 | IV |
| | Nb-97 | IV |
| Osmium (76) | Os-185 | IV |
| | Os-191m | IV |
| | Os-191 | IV |
| | Os-193 | IV |
| Palladium (46) | Pd-103 | IV |
| | Pd-109 | IV |
| Phosphorus (15) | P-32 | IV |
| | Pt-191 | IV |
| Platinum (73) | Pt-193 | IV |
| | Pt-193m | IV |
| | Pt-197m | IV |
| | Pt-197 | IV |
| | Pu-238 F | I |
| Plutonium (94) | Pu-239 F | I |
| | Pu-240 | I |
| | Pu-241 F | I |
| | Pu-242 | I |
| Polonium (84) | Po-210 | I |

| | | |
|-------------------|------------|-----|
| Potassium (19) | K-42 | IV |
| | K-43 | III |
| Praseodymium (59) | Pr-142 | IV |
| | Pr-143 | IV |
| Promethium (61) | Pm-147 | IV |
| | Pm-149 | IV |
| Protactinium (91) | Pa-230 | I |
| | Pa-231 | I |
| | Pa-233 | II |
| Radium (88) | Ra-223 | II |
| | Ra-224 | II |
| | Ra-226 | I |
| | Ra-228 | I |
| Radon (86) | Rn-220 | IV |
| | Rn-222 | II |
| Rhenium (75) | Re-183 | IV |
| | Re-186 | IV |
| | Re-187 | IV |
| | Re-188 | IV |
| | Re-Natural | IV |
| Rhodium (45) | Rh-103m | IV |
| | Rh-105 | IV |
| Rubidium (37) | Rb-86 | IV |
| | Rb-87 | IV |
| | Rb-Natural | IV |
| Ruthenium (44) | Ru-97 | IV |
| | Ru-103 | IV |
| | Ru-105 | IV |
| | Ru-106 | III |
| Samarium (62) | Sm-145 | III |
| | Sm-147 | III |
| | Sm-151 | IV |
| | Sm-153 | IV |
| Scandium (21) | Sc-46 | III |
| | Sc-47 | IV |
| | Sc-48 | IV |
| Selenium (34) | Se-75 | IV |
| Silicon (14) | Si-31 | IV |
| Silver (47) | Ag-105 | IV |
| | Ag-110m | III |
| | Ag-111 | IV |
| Sodium (11) | Na-22 | III |
| | Na-24 | IV |
| Strontium (38) | Sr-85m | IV |
| | Sr-85 | IV |
| | Sr-89 | III |
| | Sr-90 | II |
| | Sr-91 | III |
| Sulfur (16) | Sr-92 | IV |
| | S-35 | IV |
| Tantalum (73) | Ta-182 | III |
| | Tc-96m | IV |

| | | |
|-----------------|---|-----------|
| Technetium (43) | Tc-96 | IV |
| | Tc-97m | IV |
| | Tc-97 | IV |
| | Tc-99m | IV |
| | Tc-99 | IV |
| Tellurium (52) | Te-125m | IV |
| | Te-127m | IV |
| | Te-127 | IV |
| | Te-129m | III |
| | Te-129 | IV |
| | Te-131m | III |
| Terbium (65) | Te-132 | IV |
| | Tb-160 | III |
| Thallium (81) | Tl-200 | IV |
| | Tl-201 | IV |
| | Tl-202 | IV |
| | Tl-204 | III |
| Thorium (90) | Th-227 | II |
| | Th-228 | I |
| | Th-230 | I |
| | Th-231 | I |
| | Th-232 | III |
| | Th-234 | II |
| Thulium (69) | Th-Natural | III |
| | Tm-168 | III |
| | Tm-170 | III |
| | Tm-171 | IV |
| Tin (50) | Sn-113 | IV |
| | Sn-117m | III |
| | Sn-121 | III |
| | Sn-125 | IV |
| Tritium (1) | H-3 | |
| | H-3 (as a gas, as luminous paint, or adsorbed on solid material.) | IV VII |
| Tungsten (74) | W-181 | IV |
| | W-185 | IV |
| | W-187 | IV |
| Uranium (92) | U-230 | II |
| | U-232 | I |
| | U-233 F | II |
| | U-234 | II |
| | U-235 F | III |
| | U-236 | II |
| | U-238 | III |
| | U-Natural | III |
| | U-Enriched F | III |
| | U-Depleted | III |
| Vanadium (23) | V-48 | IV |
| | V-49 | III |
| | Xe-125 | |
| | Xe-131m | |

| | | | |
|----------------|-----------------|-------|----|
| | Xe-131m | | |
| | (uncompressed)† | III | |
| Xenon (54) | Xe-133 | III | |
| | Xe-133 | V | |
| | (uncompressed)† | III | |
| | Xe-135 | VI | |
| | Xe-135 | II | |
| | (uncompressed)† | V | |
| Ytterbium (70) | Yb-175 | IV | |
| | Y-88 | III | |
| | Y-90 | IV | |
| Yttrium (39) | Y-91m | III | |
| | Y-91 | III | |
| | Y-92 | IV | |
| | Y-93 | IV | |
| | | Zn-65 | IV |
| Zinc (30) | Zn-69m | IV | |
| | Zn-69 | IV | |
| | | Zr-93 | IV |
| Zirconium (40) | Zr-95 | III | |
| | | Zr-97 | IV |

NOTE: For mixtures of radionuclides and for radionuclides not included in this subsection, see subsection (b) of this section, waste processing and storage categories.

*Atomic number shown in parentheses.

** Atomic mass number shown after the element symbol.

F Fissile material.

m Metastable state.

† Uncompressed means at a pressure not exceeding 1 atmosphere.