

Figure: 30 TAC §336.359(d)

| Name | Symbol | Atomic Number | Name | Symbol | Atomic Number |
|-------------|--------|---------------|--------------|--------|---------------|
| Actinium | Ac | 89 | Mercury | Hg | 80 |
| Aluminum | Al | 13 | Molybdenum | Mo | 42 |
| Americium | Am | 95 | Neodymium | Nd | 60 |
| Antimony | Sb | 51 | Neptunium | Np | 93 |
| Argon | Ar | 18 | Nickel | Ni | 28 |
| Arsenic | As | 33 | Niobium | Nb | 41 |
| Astatine | At | 85 | Nitrogen | N | 7 |
| Barium | Ba | 56 | Osmium | Os | 76 |
| Berkelium | Bk | 97 | Oxygen | O | 8 |
| Beryllium | Be | 4 | Palladium | Pd | 46 |
| Bismuth | Bi | 83 | Phosphorus | P | 15 |
| Bromine | Br | 35 | Platinum | Pt | 78 |
| Cadmium | Cd | 48 | Plutonium | Pu | 94 |
| Calcium | Ca | 20 | Polonium | Po | 84 |
| Californium | Cf | 98 | Potassium | K | 19 |
| Carbon | C | 6 | Praseodymium | Pr | 59 |
| Cerium | Ce | 58 | Promethium | Pm | 61 |
| Cesium | Cs | 55 | Protactinium | Pa | 91 |
| Chlorine | Cl | 17 | Radium | Ra | 88 |
| Chromium | Cr | 24 | Radon | Rn | 86 |
| Cobalt | Co | 27 | Rhodium | Rh | 45 |
| Copper | Cu | 29 | Rubidium | Rb | 37 |
| Curium | Cm | 96 | Ruthenium | Ru | 44 |
| Dysprosium | Dy | 66 | Samarium | Sm | 62 |
| Einsteinium | Es | 99 | Scandium | Sc | 21 |
| Erbium | Er | 68 | Selenium | Se | 34 |
| Europium | Eu | 63 | Silicon | Si | 14 |
| Fermium | Fm | 100 | Silver | Ag | 47 |
| Fluorine | F | 9 | Sodium | Na | 11 |
| Francium | Fr | 87 | Strontium | Sr | 38 |
| Gadolinium | Gd | 64 | Sulfur | S | 16 |
| Gallium | Ga | 31 | Tantalum | Ta | 73 |
| Germanium | Ge | 32 | Technetium | Tc | 43 |
| Gold | Au | 79 | Tellurium | Te | 52 |
| Hafnium | Hf | 72 | Terbium | Tb | 65 |

| | | | | | |
|-------------|----|-----|-----------|----|----|
| Holmium | Ho | 67 | Thallium | Tl | 81 |
| Hydrogen | H | 1 | Thorium | Th | 90 |
| Indium | In | 49 | Thulium | Tm | 69 |
| Iodine | I | 53 | Tin | Sn | 50 |
| Iridium | Ir | 77 | Titanium | Ti | 22 |
| Iron | Fe | 26 | Tungsten | W | 74 |
| Krypton | Kr | 36 | Uranium | U | 92 |
| Lanthanum | La | 57 | Vanadium | V | 23 |
| Lead | Pb | 82 | Xenon | Xe | 54 |
| Lutetium | Lu | 71 | Ytterbium | Yb | 70 |
| Magnesium | Mg | 12 | Yttrium | Y | 39 |
| Manganese | Mn | 25 | Zinc | Zn | 30 |
| Mendelevium | Md | 101 | Zirconium | Zr | 40 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|--|--|------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 1 | Hydrogen-3 | Water, DAC includes skin absorption | 8E+4 | 8E+4 | 2E-5 | 1E-7 | 1E-3 | 1E-2 |
| | | Gas (HT or T ₂) Submersion ¹ : Use above values as HT and T ₂ oxidize in air and in the body to HTO | | | | | | |
| 4 | Beryllium-7 | W, all compounds except those given for Y | 4E+4 | 2E+4 | 9E-6 | 3E-8 | 6E-4 | 6E-3 |
| | | Y, oxides, halides, and nitrates | - | 2E+4 | 8E-6 | 3E-8 | - | - |
| 4 | Beryllium-10 | W, see ⁷ Be | 1E+3 | 2E+2 | 6E-8 | 2E-10 | - | - |
| | | LLI wall (1E+3) | - | - | - | - | 2E-5 | 2E-4 |
| | | Y, see ⁷ Be | - | 1E+1 | 6E-9 | 2E-11 | - | - |
| 6 | Carbon-11 ² | Monoxide | - | 1E+6 | 5E-4 | 2E-6 | - | - |
| | | Dioxide | - | 6E+5 | 3E-4 | 9E-7 | - | - |
| | | Compounds | 4E+5 | 4E+5 | 2E-4 | 6E-7 | 6E-3 | 6E-2 |
| 6 | Carbon-14 | Monoxide | - | 2E+6 | 7E-4 | 2E-6 | - | - |
| | | Dioxide | - | 2E+5 | 9E-5 | 3E-7 | - | - |
| | | Compounds | 2E+3 | 2E+3 | 1E-6 | 3E-9 | 3E-5 | 3E-4 |
| 7 | Nitrogen-13 ² | Submersion | = | = | 4E-6 | 2E-8 | = | = |
| 8 | Oxygen-15 ² | Submersion | = | = | 4E-6 | 2E-8 | = | = |
| 9 | Fluorine-18 ² | D, fluorides of H, Li, Na, K, Rb, Cs, and Fr | 5E+4 | 7E+4 | 3E-5 | 1E-7 | - | - |
| | | St wall (5E+4) | - | - | - | - | 7E-4 | 7E-3 |
| | | W, fluorides of Be, Mg, Ca, Sr, Ba, Ra, Al, Ga, In, Tl, As, Sb, Bi, Fe, Ru, Os, Co, Ni, Pd, Pt, Cu, Ag, Au, Zn, Cd, Hg, Sc, Y, Ti, Zr, V, Nb, Ta, Mn, Tc, and Re | - | 9E+4 | 4E-5 | 1E-7 | - | - |
| | | Y, lanthanum fluoride | - | 8E+4 | 3E-5 | 1E-7 | - | - |
| 11 | Sodium-22 | D, all compounds | 4E+2 | 6E+2 | 3E-7 | 9E-10 | 6E-6 | 6E-5 |
| 11 | Sodium-24 | D, all compounds | 4E+3 | 5E+3 | 2E-6 | 7E-9 | 5E-5 | 5E-4 |
| 12 | Magnesium-28 | D, all compounds except those given for W | 7E+2 | 2E+3 | 7E-7 | 2E-9 | 9E-6 | 9E-5 |
| | | W, oxides, hydroxides, carbides, halides, and nitrates | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| 13 | Aluminum-26 | D, all compounds except those given for W | 4E+2 | 6E+1 | 3E-8 | 9E-11 | 6E-6 | 6E-5 |
| | | W, oxides, hydroxides, carbides, halides, and nitrates | - | 9E+1 | 4E-8 | 1E-10 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|---------------------------|---------------------------|--|---|------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| ALI (μCi) | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 14 | Silicon-31 | D, all compounds except those given for W and Y | 9E+3 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 |
| | | W, oxides, hydroxides, carbides, and nitrates | - | 3E+4 | 1E-5 | 5E-8 | - | - |
| | | Y, aluminosilicate glass | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 14 | Silicon-32 | D, see ^{31}Si | 2E+3 | 2E+2 | 1E-7 | 3E-10 | - | - |
| | | LLI wall (3E+3) | - | - | - | - | 4E-5 | 4E-4 |
| | | W, see ^{31}Si | - | 1E+2 | 5E-8 | 2E-10 | - | - |
| | | Y, see ^{31}Si | - | 5E+0 | 2E-9 | 7E-12 | - | - |
| 15 | Phosphorus-32 | D, all compounds except phosphates given for W | 6E+2 | 9E+2 | 4E-7 | 1E-9 | 9E-6 | 9E-5 |
| | | W, phosphates of Zn^{2+} , S^{3+} , Mg^{2+} , Fe^{3+} , Bi^{3+} , and lanthanides | - | 4E+2 | 2E-7 | 5E-10 | - | - |
| 15 | Phosphorus-33 | D, see ^{32}P | 6E+3 | 8E+3 | 4E-6 | 1E-8 | 8E-5 | 8E-4 |
| | | W, see ^{32}P | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| 16 | Sulfur-35 | Vapor | - | 1E+4 | 6E-6 | 2E-8 | - | - |
| | | D, sulfides and sulfates except those given for W | 1E+4 | 2E+4 | 7E-6 | 2E-8 | - | - |
| | | LLI wall (8E+3) | - | - | - | - | 1E-4 | 1E-3 |
| | | W, elemental sulfur, sulfides of Sr, Ba, Ge, Sn, Pb, As, Sb, Bi, Cu, Ag, Au, Zn, Cd, Hg, W, and Mo. Sulfates of Ca, Sr, Ba, Ra, As, Sb, and Bi | 6E+3 | - | - | - | - | - |
| | | | - | 2E+3 | 9E-7 | 3E-9 | - | - |
| 17 | Chlorine-36 | D, chlorides of H, Li, Na, K, Rb, Cs, and W, chlorides of lanthanides, Be, Mg, Ca, Sr, Ba, Ra, Al, Ga, In, Tl, Ge, Sn, Pb, As, Sb, Bi, Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt, Cu, Ag, Au, Zn, Cd, Hg, Sc, Y, Ti, Zr, Hf, V, Nb, Ta, Cr, Mo, W, Mn, Tc, and Re | 2E+3 | 2E+3 | 1E-6 | 3E-9 | 2E-5 | 2E-4 |
| | | | - | 2E+2 | 1E-7 | 3E-10 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|--|--|-----------------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 17 | Chlorine-38 ² | D, see ³⁶ Cl | 2E+4 St wall (5E+4) | 4E+4 | 2E-5 | 6E-8 | - | - |
| | | W, see ³⁶ Cl | - | 5E+4 | 2E-5 | 6E-8 | 3E-4 | 3E-3 |
| 17 | Chlorine-39 ² | D, see ³⁶ Cl | 2E+4 St wall (4E+4) | 5E+4 | 2E-5 | 7E-8 | - | - |
| | | W, see ³⁶ Cl | - | 6E+4 | 2E-5 | 8E-8 | 5E-4 | 5E-3 |
| 18 | Argon-37 | Submersion ¹ | - | - | 1E+0 | 6E-3 | - | - |
| 18 | Argon-39 | Submersion ¹ | - | - | 2E-4 | 8E-7 | - | - |
| 18 | Argon-41 | Submersion ¹ | - | - | 3E-6 | 1E-8 | - | - |
| 19 | Potassium-40 | D, all compounds | 3E+2 | 4E+2 | 2E-7 | 6E-10 | 4E-6 | 4E-5 |
| 19 | Potassium-42 | D, all compounds | 5E+3 | 5E+3 | 2E-6 | 7E-9 | 6E-5 | 6E-4 |
| 19 | Potassium-43 | D, all compounds | 6E+3 | 9E+3 | 4E-6 | 1E-8 | 9E-5 | 9E-4 |
| 19 | Potassium-44 ² | D, all compounds | 2E+4 St wall (4E+4) | 7E+4 | 3E-5 | 9E-8 | - | - |
| | | | - | - | - | - | 5E-4 | 5E-3 |
| 19 | Potassium-45 ² | D, all compounds | 3E+4 St wall (5E+4) | 1E+5 | 5E-5 | 2E-7 | - | - |
| | | | - | - | - | - | 7E-4 | 7E-3 |
| 20 | Calcium-41 | W, all compounds | 3E+3 Bone surf (4E+3) | 4E+3 Bone surf (4E+3) | 2E-6 | - | - | - |
| | | | - | - | - | 5E-9 | 6E-5 | 6E-4 |
| 20 | Calcium-45 | W, all compounds | 2E+3 | 8E+2 | 4E-7 | 1E-9 | 2E-5 | 2E-4 |
| 20 | Calcium-47 | W, all compounds | 8E+2 | 9E+2 | 4E-7 | 1E-9 | 1E-5 | 1E-4 |
| 21 | Scandium-43 | Y, all compounds | 7E+3 | 2E+4 | 9E-6 | 3E-8 | 1E-4 | 1E-3 |
| 21 | Scandium-44m | Y, all compounds | 5E+2 | 7E+2 | 3E-7 | 1E-9 | 7E-6 | 7E-5 |
| 21 | Scandium-44 | Y, all compounds | 4E+3 | 1E+4 | 5E-6 | 2E-8 | 5E-5 | 5E-4 |
| 21 | Scandium-46 | Y, all compounds | 9E+2 | 2E+2 | 1E-7 | 3E-10 | 1E-5 | 1E-4 |
| 21 | Scandium-47 | Y, all compounds | 2E+3 LLI wall (3E+3) | 3E+3 | 1E-6 | 4E-9 | - | - |
| | | | - | - | - | - | 4E-5 | 4E-4 |
| 21 | Scandium-48 | Y, all compounds | 8E+2 | 1E+3 | 6E-7 | 2E-9 | 1E-5 | 1E-4 |
| 21 | Scandium-49 ² | Y, all compounds | 2E+4 | 5E+4 | 2E-5 | 8E-8 | 3E-4 | 3E-3 |
| 22 | Titanium-44 | D, all compounds except those given for W and Y | 3E+2 | 1E+1 | 5E-9 | 2E-11 | 4E-6 | 4E-5 |
| | | W, oxides, hydroxides, carbides, halides, and nitrates nitrates | - | 3E+1 | 1E-8 | 4E-11 | - | - |
| | | Y, SrTiO | - | 6E+0 | 2E-9 | 8E-12 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|----------------------------|---|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 22 | Titanium-45 | D, see ^{44}Ti | 9E+3 | 3E+4 | 1E-5 | 3E-8 | 1E-4 | 1E-3 |
| | | W, see ^{44}Ti | - | 4E+4 | 1E-5 | 5E-8 | - | - |
| | | Y, see ^{44}Ti | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 23 | Vanadium-47 ² | D, all compounds except those given for W | 3E+4 | 8E+4 | 3E-5 | 1E-7 | - | - |
| | | | St wall (3E+4) | - | - | - | 4E-4 | 4E-3 |
| | | W, oxides, hydroxides, carbides, and halides | - | 1E+5 | 4E-5 | 1E-7 | - | - |
| 23 | Vanadium-48 | D, see ^{47}V | 6E+2 | 1E+3 | 5E-7 | 2E-9 | 9E-6 | 9E-5 |
| | | W, see ^{47}V | - | 6E+2 | 3E-7 | 9E-10 | - | - |
| 23 | Vanadium-49 | D, see ^{47}V | 7E+4 | 3E+4 | 1E-5 | - | - | - |
| | | W, see ^{47}V | LLI wall (9E+4) | Bone surf (3E+4) | - | 5E-8 | 1E-3 | 1E-2 |
| 24 | Chromium-48 | D, all compounds except those given for W and Y | 6E+3 | 1E+4 | 5E-6 | 2E-8 | 8E-5 | 8E-4 |
| | | W, halides and nitrates | - | 7E+3 | 3E-6 | 1E-8 | - | - |
| | | Y, oxides and hydroxides | - | 7E+3 | 3E-6 | 1E-8 | - | - |
| 24 | Chromium-49 ² | D, see ^{48}Cr | 3E+4 | 8E+4 | 4E-5 | 1E-7 | 4E-4 | 4E-3 |
| | | W, see ^{48}Cr | - | 1E+5 | 4E-5 | 1E-7 | - | - |
| | | Y, see ^{48}Cr | - | 9E+4 | 4E-5 | 1E-7 | - | - |
| 24 | Chromium-51 | D, see ^{48}Cr | 4E+4 | 5E+4 | 2E-5 | 6E-8 | 5E-4 | 5E-3 |
| | | W, see ^{48}Cr | - | 2E+4 | 1E-5 | 3E-8 | - | - |
| | | Y, see ^{48}Cr | - | 2E+4 | 8E-6 | 3E-8 | - | - |
| 25 | Manganese-51 ² | D, all compounds except those given for W | 2E+4 | 5E+4 | 2E-5 | 7E-8 | 3E-4 | 3E-3 |
| | | W, oxides, hydroxides, halides, and nitrates | - | 6E+4 | 3E-5 | 8E-8 | - | - |
| 25 | Manganese-52m ² | D, see ^{51}Mn | 3E+4 | 9E+4 | 4E-5 | 1E-7 | - | - |
| | | W, see ^{51}Mn | St wall (4E+4) | - | - | - | 5E-4 | 5E-3 |
| 25 | Manganese-52 | D, see ^{51}Mn | 7E+2 | 1E+3 | 5E-7 | 2E-9 | 1E-5 | 1E-4 |
| | | W, see ^{51}Mn | - | 9E+2 | 4E-7 | 1E-9 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|---|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 25 | Manganese-53 | D, see ^{51}Mn | 5E+4 | 1E+4 | 5E-6 | - | 7E-4 | 7E-3 |
| | | | | Bone surf (2E+4) | - | 3E-8 | - | - |
| | | W, see ^{51}Mn | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 25 | Manganese-54 | D, see ^{51}Mn | 2E+3 | 9E+2 | 4E-7 | 1E-9 | 3E-5 | 3E-4 |
| | | W, see ^{51}Mn | - | 8E+2 | 3E-7 | 1E-9 | - | - |
| 25 | Manganese-56 | D, see ^{51}Mn | 5E+3 | 2E+4 | 6E-6 | 2E-8 | 7E-5 | 7E-4 |
| | | W, see ^{51}Mn | - | 2E+4 | 9E-6 | 3E-8 | - | - |
| 26 | Iron-52 | D, all compounds except those given for W | 9E+2 | 3E+3 | 1E-6 | 4E-9 | 1E-5 | 1E-4 |
| | | W, oxides, hydroxides, and halides | - | 2E+3 | 1E-6 | 3E-9 | - | - |
| 26 | Iron-55 | D, see ^{52}Fe | 9E+3 | 2E+3 | 8E-7 | 3E-9 | 1E-4 | 1E-3 |
| | | W, see ^{52}Fe | - | 4E+3 | 2E-6 | 6E-9 | - | - |
| 26 | Iron-59 | D, see ^{52}Fe | 8E+2 | 3E+2 | 1E-7 | 5E-10 | 1E-5 | 1E-4 |
| | | W, see ^{52}Fe | - | 5E+2 | 2E-7 | 7E-10 | - | - |
| 26 | Iron-60 | D, see ^{52}Fe | 3E+1 | 6E+0 | 3E-9 | 9E-12 | 4E-7 | 4E-6 |
| | | W, see ^{52}Fe | - | 2E+1 | 8E-9 | 3E-11 | - | - |
| 27 | Cobalt-55 | W, all compounds except those given for Y | 1E+3 | 3E+3 | 1E-6 | 4E-9 | 2E-5 | 2E-4 |
| | | Y, oxides, hydroxides,halides, and nitrates | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| 27 | Cobalt-56 | W, see ^{55}Co | 5E+2 | 3E+2 | 1E-7 | 4E-10 | 6E-6 | 6E-5 |
| | | Y, see ^{55}Co | 4E+2 | 2E+2 | 8E-8 | 3E-10 | - | - |
| 27 | Cobalt-57 | W, see ^{55}Co | 8E+3 | 3E+3 | 1E-6 | 4E-9 | 6E-5 | 6E-4 |
| | | Y, see ^{55}Co | 4E+3 | 7E+2 | 3E-7 | 9E-10 | - | - |
| 27 | Cobalt-58m | W, see ^{55}Co | 6E+4 | 9E+4 | 4E-5 | 1E-7 | 8E-4 | 8E-3 |
| | | Y, see ^{55}Co | - | 6E+4 | 3E-5 | 9E-8 | - | - |
| 27 | Cobalt-58 | W, see ^{55}Co | 2E+3 | 1E+3 | 5E-7 | 2E-9 | 2E-5 | 2E-4 |
| | | Y, see ^{55}Co | 1E+3 | 7E+2 | 3E-7 | 1E-9 | - | - |
| 27 | Cobalt-60m ² | W, see ^{55}Co | 1E+6 | 4E+6 | 2E-3 | 6E-6 | - | - |
| | | | St wall (1E+6) | - | - | - | 2E-2 | 2E-1 |
| | | Y, see ^{55}Co | - | 3E+6 | 1E-3 | 4E-6 | - | - |
| 27 | Cobalt-60 | W, see ^{55}Co | 5E+2 | 2E+2 | 7E-8 | 2E-10 | 3E-6 | 3E-5 |
| | | Y, see ^{55}Co | 2E+2 | 3E+1 | 1E-8 | 5E-11 | - | - |
| 27 | Cobalt-61 ² | W, see ^{55}Co | 2E+4 | 6E+4 | 3E-5 | 9E-8 | 3E-4 | 3E-3 |
| | | Y, see ^{55}Co | 2E+4 | 6E+4 | 2E-5 | 8E-8 | - | - |
| 27 | Cobalt-62m ² | W, see ^{55}Co | 4E+4 | 2E+5 | 7E-5 | 2E-7 | - | - |
| | | | St wall (5E+4) | - | - | - | 7E-4 | 7E-3 |
| | | Y, see ^{55}Co | - | 2E+5 | 6E-5 | 2E-7 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers | | |
|------------------------------------|----------------------|---|---|---|------------------------------|--|--------------------------------|---|------|------|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) | | |
| | | | Oral Ingestion (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | | | |
| | | | | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | |
| 28 | Nickel-56 | D, all compounds except those given for W | 1E+3 | 2E+3 | 8E-7 | 3E-9 | 2E-5 | 2E-4 | | |
| | | W, oxides, hydroxides, and carbides | - | 1E+3 | 5E-7 | 2E-9 | - | - | | |
| | | Vapor | - | 1E+3 | 5E-7 | 2E-9 | - | - | | |
| 28 | Nickel-57 | D, see ^{56}Ni | 2E+3 | 5E+3 | 2E-6 | 7E-9 | 2E-5 | 2E-4 | | |
| | | W, see ^{56}Ni | - | 3E+3 | 1E-6 | 4E-9 | - | - | | |
| | | Vapor | - | 6E+3 | 3E-6 | 9E-9 | - | - | | |
| 28 | Nickel-59 | D, see ^{56}Ni | 2E+4 | 4E+3 | 2E-6 | 5E-9 | 3E-4 | 3E-3 | | |
| | | W, see ^{56}Ni | - | 7E+3 | 3E-6 | 1E-8 | - | - | | |
| | | Vapor | - | 2E+3 | 8E-7 | 3E-9 | - | - | | |
| 28 | Nickel-63 | D, see ^{56}Ni | 9E+3 | 2E+3 | 7E-7 | 2E-9 | 1E-4 | 1E-3 | | |
| | | W, see ^{56}Ni | - | 3E+3 | 1E-6 | 4E-9 | - | - | | |
| | | Vapor | - | 8E+2 | 3E-7 | 1E-9 | - | - | | |
| 28 | Nickel-65 | D, see ^{56}Ni | 8E+3 | 2E+4 | 1E-5 | 3E-8 | 1E-4 | 1E-3 | | |
| | | W, see ^{56}Ni | - | 3E+4 | 1E-5 | 4E-8 | - | - | | |
| | | Vapor | - | 2E+4 | 7E-6 | 2E-8 | - | - | | |
| 28 | Nickel-66 | D, see ^{56}Ni | 4E+2 | 2E+3 | 7E-7 | 2E-9 | - | - | | |
| | | LLI wall (5E+2) | - | - | - | - | 6E-6 | 6E-5 | | |
| | | W, see ^{56}Ni | - | 6E+2 | 3E-7 | 9E-10 | - | - | | |
| 28 | Nickel-66 | Vapor | - | 3E+3 | 1E-6 | 4E-9 | - | - | | |
| | | 29 | Copper-60 ² | D, all compounds except those given for W and Y | 3E+4 | 9E+4 | 4E-5 | 1E-7 | - | - |
| | | | | St wall (3E+4) | - | - | - | - | 4E-4 | 4E-3 |
| W, sulfides, halides, and nitrates | - | | | 1E+5 | 5E-5 | 2E-7 | - | - | | |
| 29 | Copper-61 | D, see ^{60}Cu | 1E+4 | 3E+4 | 1E-5 | 4E-8 | 2E-4 | 2E-3 | | |
| | | W, see ^{60}Cu | - | 4E+4 | 2E-5 | 6E-8 | - | - | | |
| | | Y, see ^{60}Cu | - | 4E+4 | 1E-5 | 5E-8 | - | - | | |
| 29 | Copper-64 | D, see ^{60}Cu | 1E+4 | 3E+4 | 1E-5 | 4E-8 | 2E-4 | 2E-3 | | |
| | | W, see ^{60}Cu | - | 2E+4 | 1E-5 | 3E-8 | - | - | | |
| | | Y, see ^{60}Cu | - | 2E+4 | 9E-6 | 3E-8 | - | - | | |
| 29 | Copper-67 | D, see ^{60}Cu | 5E+3 | 8E+3 | 3E-6 | 1E-8 | 6E-5 | 6E-4 | | |
| | | W, see ^{60}Cu | - | 5E+3 | 2E-6 | 7E-9 | - | - | | |
| | | Y, see ^{60}Cu | - | 5E+3 | 2E-6 | 6E-9 | - | - | | |
| 30 | Zinc-62 | Y, all compounds | 1E+3 | 3E+3 | 1E-6 | 4E-9 | 2E-5 | 2E-4 | | |
| 30 | Zinc-63 ² | Y, all compounds | 2E+4 | 7E+4 | 3E-5 | 9E-8 | - | - | | |
| | | St wall (3E+4) | - | - | - | - | 3E-4 | 3E-3 | | |
| 30 | Zinc-65 | Y, all compounds | 4E+2 | 3E+2 | 1E-7 | 4E-10 | 5E-6 | 5E-5 | | |
| 30 | Zinc-69m | Y, all compounds | 4E+3 | 7E+3 | 3E-6 | 1E-8 | 6E-5 | 6E-4 | | |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|---|--|------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 30 | Zinc-69 ² | Y, all compounds | 6E+4 | 1E+5 | 6E-5 | 2E-7 | 8E-4 | 8E-3 |
| 30 | Zinc-71m | Y, all compounds | 6E+3 | 2E+4 | 7E-6 | 2E-8 | 8E-5 | 8E-4 |
| 30 | Zinc-72 | Y, all compounds | 1E+3 | 1E+3 | 5E-7 | 2E-9 | 1E-5 | 1E-4 |
| 31 | Gallium-65 ² | D, all compounds except those given for W | 5E+4 | 2E+5 | 7E-5 | 2E-7 | - | - |
| | | St wall (6E+4) | - | - | - | - | 9E-4 | 9E-3 |
| | | W, oxides, hydroxides, carbides, halides, and nitrates | - | 2E+5 | 8E-5 | 3E-7 | - | - |
| 31 | Gallium-66 | D, see ⁶⁵ Ga | 1E+3 | 4E+3 | 1E-6 | 5E-9 | 1E-5 | 1E-4 |
| | | W, see ⁶⁵ Ga | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| 31 | Gallium-67 | D, see ⁶⁵ Ga | 7E+3 | 1E+4 | 6E-6 | 2E-8 | 1E-4 | 1E-3 |
| | | W, see ⁶⁵ Ga | - | 1E+4 | 4E-6 | 1E-8 | - | - |
| 31 | Gallium-68 ² | D, see ⁶⁵ Ga | 2E+4 | 4E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| | | W, see ⁶⁵ Ga | - | 5E+4 | 2E-5 | 7E-8 | - | - |
| 31 | Gallium-70 ² | D, see ⁶⁵ Ga | 5E+4 | 2E+5 | 7E-5 | 2E-7 | - | - |
| | | St wall (7E+4) | - | - | - | - | 1E-3 | 1E-2 |
| | | W, see ⁶⁵ Ga | - | 2E+5 | 8E-5 | 3E-7 | - | - |
| 31 | Gallium-72 | D, see ⁶⁵ Ga | 1E+3 | 4E+3 | 1E-6 | 5E-9 | 2E-5 | 2E-4 |
| | | W, see ⁶⁵ Ga | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| 31 | Gallium-73 | D, see ⁶⁵ Ga | 5E+3 | 2E+4 | 6E-6 | 2E-8 | 7E-5 | 7E-4 |
| | | W, see ⁶⁵ Ga | - | 2E+4 | 6E-6 | 2E-8 | - | - |
| 32 | Germanium-66 | D, all compounds except those given for W | 2E+4 | 3E+4 | 1E-5 | 4E-8 | 3E-4 | 3E-3 |
| | | W, oxides, sulfides, and halides | - | 2E+4 | 8E-6 | 3E-8 | - | - |
| 32 | Germanium-67 ² | D, see ⁶⁶ Ge | 3E+4 | 9E+4 | 4E-5 | 1E-7 | - | - |
| | | St wall (4E+4) | - | - | - | - | 6E-4 | 6E-3 |
| | | W, see ⁶⁶ Ge | - | 1E+5 | 4E-5 | 1E-7 | - | - |
| 32 | Germanium-68 | D, see ⁶⁶ Ge | 5E+3 | 4E+3 | 2E-6 | 5E-9 | 6E-5 | 6E-4 |
| | | W, see ⁶⁶ Ge | - | 1E+2 | 4E-8 | 1E-10 | - | - |
| 32 | Germanium-69 | D, see ⁶⁶ Ge | 1E+4 | 2E+4 | 6E-6 | 2E-8 | 2E-4 | 2E-3 |
| | | W, see ⁶⁶ Ge | - | 8E+3 | 3E-6 | 1E-8 | - | - |
| 32 | Germanium-71 | D, see ⁶⁶ Ge | 5E+5 | 4E+5 | 2E-4 | 6E-7 | 7E-3 | 7E-2 |
| | | W, see ⁶⁶ Ge | - | 4E+4 | 2E-5 | 6E-8 | - | - |
| 32 | Germanium-75 ² | D, see ⁶⁶ Ge | 4E+4 | 8E+4 | 3E-5 | 1E-7 | - | - |
| | | St wall (7E+4) | - | - | - | - | 9E-4 | 9E-3 |
| | | W, see ⁶⁶ Ge | - | 8E+4 | 4E-5 | 1E-7 | - | - |
| 32 | Germanium-77 | D, see ⁶⁶ Ge | 9E+3 | 1E+4 | 4E-6 | 1E-8 | 1E-4 | 1E-3 |
| | | W, see ⁶⁶ Ge | - | 6E+3 | 2E-6 | 8E-9 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|---|--|---|--------|--|------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) | | DAC ($\mu\text{Ci/ml}$) | Air ($\mu\text{Ci/ml}$) | |
| 32 | Germanium-78 ² | D, see ⁶⁶ Ge | 2E+4 | 2E+4 | 9E-6 | 3E-8 | - | - |
| | | | St wall (2E+4) | - | - | - | 3E-4 | 3E-3 |
| | | W, see ⁶⁶ Ge | - | 2E+4 | 9E-6 | 3E-8 | - | - |
| 33 | Arsenic-69 ² | W, all compounds | 3E+4 | 1E+5 | 5E-5 | 2E-7 | - | - |
| | | | St wall (4E+4) | - | - | - | 6E-4 | 6E-3 |
| 33 | Arsenic-70 ² | W, all compounds | 1E+4 | 5E+4 | 2E-5 | 7E-8 | 2E-4 | 2E-3 |
| 33 | Arsenic-71 | W, all compounds | 4E+3 | 5E+3 | 2E-6 | 6E-9 | 5E-5 | 5E-4 |
| 33 | Arsenic-72 | W, all compounds | 9E+2 | 1E+3 | 6E-7 | 2E-9 | 1E-5 | 1E-4 |
| 33 | Arsenic-73 | W, all compounds | 8E+3 | 2E+3 | 7E-7 | 2E-9 | 1E-4 | 1E-3 |
| 33 | Arsenic-74 | W, all compounds | 1E+3 | 8E+2 | 3E-7 | 1E-9 | 2E-5 | 2E-4 |
| 33 | Arsenic-76 | W, all compounds | 1E+3 | 1E+3 | 6E-7 | 2E-9 | 1E-5 | 1E-4 |
| 33 | Arsenic-77 | W, all compounds | 4E+3 | 5E+3 | 2E-6 | 7E-9 | - | - |
| | | | LLI wall (5E+3) | - | - | - | 6E-5 | 6E-4 |
| 33 | Arsenic-78 ² | W, all compounds | 8E+3 | 2E+4 | 9E-6 | 3E-8 | 1E-4 | 1E-3 |
| 34 | Selenium-70 ² | D, all compounds except those given for W | 2E+4 | 4E+4 | 2E-5 | 5E-8 | 1E-4 | 1E-3 |
| | | W, oxides, hydroxides, carbides, and elemental Se | 1E+4 | 4E+4 | 2E-5 | 6E-8 | - | - |
| 34 | Selenium-73m ² | D, see ⁷⁰ Se | 6E+4 | 2E+5 | 6E-5 | 2E-7 | 4E-4 | 4E-3 |
| | | W, see ⁷⁰ Se | 3E+4 | 1E+5 | 6E-5 | 2E-7 | - | - |
| 34 | Selenium-73 | D, see ⁷⁰ Se | 3E+3 | 1E+4 | 5E-6 | 2E-8 | 4E-5 | 4E-4 |
| | | W, see ⁷⁰ Se | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| 34 | Selenium-75 | D, see ⁷⁰ Se | 5E+2 | 7E+2 | 3E-7 | 1E-9 | 7E-6 | 7E-5 |
| | | W, see ⁷⁰ Se | - | 6E+2 | 3E-7 | 8E-10 | - | - |
| 34 | Selenium-79 | D, see ⁷⁰ Se | 6E+2 | 8E+2 | 3E-7 | 1E-9 | 8E-6 | 8E-5 |
| | | W, see ⁷⁰ Se | - | 6E+2 | 2E-7 | 8E-10 | - | - |
| 34 | Selenium-81m ² | D, see ⁷⁰ Se | 4E+4 | 7E+4 | 3E-5 | 9E-8 | 3E-4 | 3E-3 |
| | | W, see ⁷⁰ Se | 2E+4 | 7E+4 | 3E-5 | 1E-7 | - | - |
| 34 | Selenium-81 ² | D, see ⁷⁰ Se | 6E+4 | 2E+5 | 9E-5 | 3E-7 | - | - |
| | | | St wall (8E+4) | - | - | - | 1E-3 | 1E-2 |
| | | W, see ⁷⁰ Se | - | 2E+5 | 1E-4 | 3E-7 | - | - |
| 34 | Selenium-83 ² | D, see ⁷⁰ Se | 4E+4 | 1E+5 | 5E-5 | 2E-7 | 4E-4 | 4E-3 |
| | | W, see ⁷⁰ Se | 3E+4 | 1E+5 | 5E-5 | 2E-7 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|--------------------------|--|---|---------------------------|------------------------------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | | | | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | |
| 35 | Bromine-74m ² | D, bromides of H, Li, Na, K, Rb, Cs, and Fr | 1E+4 | 4E+4 | 2E-5 | 5E-8 | - | - |
| | | | St wall (2E+4) | - | - | - | 3E-4 | 3E-3 |
| | | W, bromides of lanthanides, Be, Mg, Ca, Sr, Ba, Ra, Al, Ga, In, Tl, Ge, Sn, Pb, As, Sb, Bi, Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt, Cu, Ag, Au, Zn, Cd, Hg, Sc, Y, Ti, Zr, Hf, V, Nb, Ta, Mn, Tc, and Re | - | 4E+4 | 2E-5 | 6E-8 | - | - |
| 35 | Bromine-74 ² | D, see ^{74m} Br | 2E+4 | 7E+4 | 3E-5 | 1E-7 | - | - |
| | | | St wall (4E+4) | - | - | - | 5E-4 | 5E-3 |
| | | W, see ^{74m} Br | - | 8E+4 | 4E-5 | 1E-7 | - | - |
| 35 | Bromine-75 ² | D, see ^{74m} Br | 3E+4 | 5E+4 | 2E-5 | 7E-8 | - | - |
| | | | St wall (4E+4) | - | - | - | 5E-4 | 5E-3 |
| | | W, see ^{74m} Br | - | 5E+4 | 2E-5 | 7E-8 | - | - |
| 35 | Bromine-76 | D, see ^{74m} Br | 4E+3 | 5E+3 | 2E-6 | 7E-9 | 5E-5 | 5E-4 |
| | | W, see ^{74m} Br | - | 4E+3 | 2E-6 | 6E-9 | - | - |
| 35 | Bromine-77 | D, see ^{74m} Br | 2E+4 | 2E+4 | 1E-5 | 3E-8 | 2E-4 | 2E-3 |
| | | W, see ^{74m} Br | - | 2E+4 | 8E-6 | 3E-8 | - | - |
| 35 | Bromine-80m | D, see ^{74m} Br | 2E+4 | 2E+4 | 7E-6 | 2E-8 | 3E-4 | 3E-3 |
| | | W, see ^{74m} Br | - | 1E+4 | 6E-6 | 2E-8 | - | - |
| 35 | Bromine-80 ² | D, see ^{74m} Br | 5E+4 | 2E+5 | 8E-5 | 3E-7 | - | - |
| | | | St wall (9E+4) | - | - | - | 1E-3 | 1E-2 |
| | | W, see ^{74m} Br | - | 2E+5 | 9E-5 | 3E-7 | - | - |
| 35 | Bromine-82 | D, see ^{74m} Br | 3E+3 | 4E+3 | 2E-6 | 6E-9 | 4E-5 | 4E-4 |
| | | W, see ^{74m} Br | - | 4E+3 | 2E-6 | 5E-9 | - | - |
| 35 | Bromine-83 | D, see ^{74m} Br | 5E+4 | 6E+4 | 3E-5 | 9E-8 | - | - |
| | | | St wall (7E+4) | - | - | - | 9E-4 | 9E-3 |
| | | W, see ^{74m} Br | - | 6E+4 | 3E-5 | 9E-8 | - | - |
| 35 | Bromine-84 ² | D, see ^{74m} Br | 2E+4 | 6E+4 | 2E-5 | 8E-8 | - | - |
| | | | St wall (3E+4) | - | - | - | 4E-4 | 4E-3 |
| | | W, see ^{74m} Br | - | 6E+4 | 3E-5 | 9E-8 | - | - |
| 36 | Krypton-74 ² | Submersion ¹ | - | - | 3E-6 | 1E-8 | - | - |
| 36 | Krypton-76 | Submersion ¹ | - | - | 9E-6 | 4E-8 | - | - |
| 36 | Krypton-77 ² | Submersion ¹ | - | - | 4E-6 | 2E-8 | - | - |
| 36 | Krypton-79 | Submersion ¹ | - | - | 2E-5 | 7E-8 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers | |
|------------|----------------------------|---|---|---------------------------|------------------------------|--|--------------------------------|---|--|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) | |
| | | | Oral Ingestion (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | | |
| | | | | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | |
| 36 | Krypton-81 | Submersion ¹ | - | - | 7E-4 | 3E-6 | - | - | |
| 36 | Krypton-83m ² | Submersion ¹ | - | - | 1E-2 | 5E-5 | - | - | |
| 36 | Krypton-85m | Submersion ¹ | - | - | 2E-5 | 1E-7 | - | - | |
| 36 | Krypton-85 | Submersion ¹ | - | - | 1E-4 | 7E-7 | - | - | |
| 36 | Krypton-87 ² | Submersion ¹ | - | - | 5E-6 | 2E-8 | - | - | |
| 36 | Krypton-88 | Submersion ¹ | - | - | 2E-6 | 9E-9 | - | - | |
| 37 | Rubidium-79 ² | D, all compounds | 4E+4 | 1E+5 | 5E-5 | 2E-7 | - | - | |
| | | | St wall (6E+4) | - | - | - | 8E-4 | 8E-3 | |
| 37 | Rubidium-81m ² | D, all compounds | 2E+5 | 3E+5 | 1E-4 | 5E-7 | - | - | |
| | | | St wall (3E+5) | - | - | - | 4E-3 | 4E-2 | |
| 37 | Rubidium-81 | D, all compounds | 4E+4 | 5E+4 | 2E-5 | 7E-8 | 5E-4 | 5E-3 | |
| 37 | Rubidium-82m | D, all compounds | 1E+4 | 2E+4 | 7E-6 | 2E-8 | 2E-4 | 2E-3 | |
| 37 | Rubidium-83 | D, all compounds | 6E+2 | 1E+3 | 4E-7 | 1E-9 | 9E-6 | 9E-5 | |
| 37 | Rubidium-84 | D, all compounds | 5E+2 | 8E+2 | 3E-7 | 1E-9 | 7E-6 | 7E-5 | |
| 37 | Rubidium-86 | D, all compounds | 5E+2 | 8E+2 | 3E-7 | 1E-9 | 7E-6 | 7E-5 | |
| 37 | Rubidium-87 | D, all compounds | 1E+3 | 2E+3 | 6E-7 | 2E-9 | 1E-5 | 1E-4 | |
| 37 | Rubidium-88 ² | D, all compounds | 2E+4 | 6E+4 | 3E-5 | 9E-8 | - | - | |
| | | | St wall (3E+4) | - | - | - | 4E-4 | 4E-3 | |
| 37 | Rubidium-89 ² | D, all compounds | 4E+4 | 1E+5 | 6E-5 | 2E-7 | - | - | |
| | | | St wall (6E+4) | - | - | - | 9E-4 | 9E-3 | |
| 38 | Strontium-80 ² | D, all soluble compounds except SrTiO Y, all insoluble compounds and SrTiO | 4E+3 | 1E+4 | 5E-6 | 2E-8 | 6E-5 | 6E-4 | |
| | | | - | 1E+4 | 5E-6 | 2E-8 | - | - | |
| 38 | Strontium-81 ² | D, see ⁸⁰ Sr Y, see ⁸⁰ Sr | 3E+4 2E+4 | 8E+4 8E+4 | 3E-5 3E-5 | 1E-7 1E-7 | 3E-4 - | 3E-3 - | |
| 38 | Strontium-82 | D, see ⁸⁰ Sr | 3E+2 | 4E+2 | 2E-7 | 6E-10 | - | - | |
| | | | LLI wall (2E+2) | - | - | - | 3E-6 | 3E-5 | |
| | | Y, see ⁸⁰ Sr | 2E+2 | 9E+1 | 4E-8 | 1E-10 | - | - | |
| 38 | Strontium-83 | D, see ⁸⁰ Sr Y, see ⁸⁰ Sr | 3E+3 2E+3 | 7E+3 4E+3 | 3E-6 1E-6 | 1E-8 5E-9 | 3E-5 - | 3E-4 - | |
| 38 | Strontium-85m ² | D, see ⁸⁰ Sr Y, see ⁸⁰ Sr | 2E+5 - | 6E+5 8E+5 | 3E-4 4E-4 | 9E-7 1E-6 | 3E-3 - | 3E-2 - | |
| 38 | Strontium-85 | D, see ⁸⁰ Sr Y, see ⁸⁰ Sr | 3E+3 - | 3E+3 2E+3 | 1E-6 6E-7 | 4E-9 2E-9 | 4E-5 - | 4E-4 - | |
| 38 | Strontium-87m | D, see ⁸⁰ Sr Y, see ⁸⁰ Sr | 5E+4 4E+4 | 1E+5 2E+5 | 5E-5 6E-5 | 2E-7 2E-7 | 6E-4 - | 6E-3 - | |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|---|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 38 | Strontium-89 | D, see ^{80}Sr | 6E+2 | 8E+2 | 4E-7 | 1E-9 | - | - |
| | | | LLI wall (6E+2) | - | - | - | 8E-6 | 8E-5 |
| | | Y, see ^{80}Sr | 5E+2 | 1E+2 | 6E-8 | 2E-10 | - | - |
| 38 | Strontium-90 | D, see ^{80}Sr | 3E+1 | 2E+1 | 8E-9 | - | - | - |
| | | | Bone surf (4E+1) | Bone surf (2E+1) | - | 3E-11 | 5E-7 | 5E-6 |
| | | Y, see ^{80}Sr | - | 4E+0 | 2E-9 | 6E-12 | - | - |
| 38 | Strontium-91 | D, see ^{80}Sr | 2E+3 | 6E+3 | 2E-6 | 8E-9 | 2E-5 | 2E-4 |
| | | Y, see ^{80}Sr | - | 4E+3 | 1E-6 | 5E-9 | - | - |
| 38 | Strontium-92 | D, see ^{80}Sr | 3E+3 | 9E+3 | 4E-6 | 1E-8 | 4E-5 | 4E-4 |
| | | Y, see ^{80}Sr | - | 7E+3 | 3E-6 | 9E-9 | - | - |
| 39 | Yttrium-86m ² | W, all compounds except those given for Y | 2E+4 | 6E+4 | 2E-5 | 8E-8 | 3E-4 | 3E-3 |
| | | Y, oxides and hydroxides | - | 5E+4 | 2E-5 | 8E-8 | - | - |
| 39 | Yttrium-86 | W, see ^{86m}Y | 1E+3 | 3E+3 | 1E-6 | 5E-9 | 2E-5 | 2E-4 |
| | | Y, see ^{86m}Y | - | 3E+3 | 1E-6 | 5E-9 | - | - |
| 39 | Yttrium-87 | W, see ^{86m}Y | 2E+3 | 3E+3 | 1E-6 | 5E-9 | 3E-5 | 3E-4 |
| | | Y, see ^{86m}Y | - | 3E+3 | 1E-6 | 5E-9 | - | - |
| 39 | Yttrium-88 | W, see ^{86m}Y | 1E+3 | 3E+2 | 1E-7 | 3E-10 | 1E-5 | 1E-4 |
| | | Y, see ^{86m}Y | - | 2E+2 | 1E-7 | 3E-10 | - | - |
| 39 | Yttrium-90m | W, see ^{86m}Y | 8E+3 | 1E+4 | 5E-6 | 2E-8 | 1E-4 | 1E-3 |
| | | Y, see ^{86m}Y | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 39 | Yttrium-90 | W, see ^{86m}Y | 4E+2 | 7E+2 | 3E-7 | 9E-10 | - | - |
| | | | LLI wall (5E+2) | - | - | - | 7E-6 | 7E-5 |
| | | Y, see ^{86m}Y | - | 6E+2 | 3E-7 | 9E-10 | - | - |
| 39 | Yttrium-91m ² | W, see ^{86m}Y | 1E+5 | 2E+5 | 1E-4 | 3E-7 | 2E-3 | 2E-2 |
| | | Y, see ^{86m}Y | - | 2E+5 | 7E-5 | 2E-7 | - | - |
| 39 | Yttrium-91 | W, see ^{86m}Y | 5E+2 | 2E+2 | 7E-8 | 2E-10 | - | - |
| | | | LLI wall (6E+2) | - | - | - | 8E-6 | 8E-5 |
| | | Y, see ^{86m}Y | - | 1E+2 | 5E-8 | 2E-10 | - | - |
| 39 | Yttrium-92 | W, see ^{86m}Y | 3E+3 | 9E+3 | 4E-6 | 1E-8 | 4E-5 | 4E-4 |
| | | Y, see ^{86m}Y | - | 8E+3 | 3E-6 | 1E-8 | - | - |
| 39 | Yttrium-93 | W, see ^{86m}Y | 1E+3 | 3E+3 | 1E-6 | 4E-9 | 2E-5 | 2E-4 |
| | | Y, see ^{86m}Y | - | 2E+3 | 1E-6 | 3E-9 | - | - |
| 39 | Yttrium-94 ² | W, see ^{86m}Y | 2E+4 | 8E+4 | 3E-5 | 1E-7 | - | - |
| | | | St wall (3E+4) | - | - | - | 4E-4 | 4E-3 |
| | | Y, see ^{86m}Y | - | 8E+4 | 3E-5 | 1E-7 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|-------------------------------------|---|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 39 | Yttrium-95 ² | W, see ^{86m} Y | 4E+4 | 2E+5 | 6E-5 | 2E-7 | - | - |
| | | | St wall (5E+4) | - | - | - | 7E-4 | 7E-3 |
| | | Y, see ^{86m} Y | - | 1E+5 | 6E-5 | 2E-7 | - | - |
| 40 | Zirconium-86 | D, all compounds except those given for W and Y | 1E+3 | 4E+3 | 2E-6 | 6E-9 | 2E-5 | 2E-4 |
| | | W, oxides, hydroxides, halides, and nitrates | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| | | Y, carbide | - | 2E+3 | 1E-6 | 3E-9 | - | - |
| 40 | Zirconium-88 | D, see ⁸⁶ Zr | 4E+3 | 2E+2 | 9E-8 | 3E-10 | 5E-5 | 5E-4 |
| | | W, see ⁸⁶ Zr | - | 5E+2 | 2E-7 | 7E-10 | - | - |
| | | Y, see ⁸⁶ Zr | - | 3E+2 | 1E-7 | 4E-10 | - | - |
| 40 | Zirconium-89 | D, see ⁸⁶ Zr | 2E+3 | 4E+3 | 1E-6 | 5E-9 | 2E-5 | 2E-4 |
| | | W, see ⁸⁶ Zr | - | 2E+3 | 1E-6 | 3E-9 | - | - |
| | | Y, see ⁸⁶ Zr | - | 2E+3 | 1E-6 | 3E-9 | - | - |
| 40 | Zirconium-93 | D, see ⁸⁶ Zr | 1E+3 | 6E+0 | 3E-9 | - | - | - |
| | | | Bone surf (3E+3) | Bone surf (2E+1) | - | 2E-11 | 4E-5 | 4E-4 |
| | | W, see ⁸⁶ Zr | - | 2E+1 | 1E-8 | - | - | - |
| | | | Bone surf (6E+1) | - | 9E-11 | - | - | - |
| | | Y, see ⁸⁶ Zr | - | 6E+1 | 2E-8 | - | - | - |
| | | Bone surf (7E+1) | - | 9E-11 | - | - | - | |
| 40 | Zirconium-95 | D, see ⁸⁶ Zr | 1E+3 | 1E+2 | 5E-8 | - | 2E-5 | 2E-4 |
| | | | Bone surf (3E+2) | - | 4E-10 | - | - | - |
| | | W, see ⁸⁶ Zr | - | 4E+2 | 2E-7 | 5E-10 | - | - |
| | Y, see ⁸⁶ Zr | - | 3E+2 | 1E-7 | 4E-10 | - | - | |
| 40 | Zirconium-97 | D, see ⁸⁶ Zr | 6E+2 | 2E+3 | 8E-7 | 3E-9 | 9E-6 | 9E-5 |
| | | W, see ⁸⁶ Zr | - | 1E+3 | 6E-7 | 2E-9 | - | - |
| | | Y, see ⁸⁶ Zr | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| 41 | Niobium-88 ² | W, all compounds except those given for Y | 5E+4 | 2E+5 | 9E-5 | 3E-7 | - | - |
| | | | St wall (7E+4) | - | - | - | 1E-3 | 1E-2 |
| | | Y, oxides and hydroxides | - | 2E+5 | 9E-5 | 3E-7 | - | - |
| 41 | Niobium-89 ² (66 min) | W, see ⁸⁸ Nb | 1E+4 | 4E+4 | 2E-5 | 6E-8 | 1E-4 | 1E-3 |
| | | Y, see ⁸⁸ Nb | - | 4E+4 | 2E-5 | 5E-8 | - | - |
| 41 | Niobium-89 (122 min) | W, see ⁸⁸ Nb | 5E+3 | 2E+4 | 8E-6 | 3E-8 | 7E-5 | 7E-4 |
| | | Y, see ⁸⁸ Nb | - | 2E+4 | 6E-6 | 2E-8 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|-----------------------------|--|--|------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 41 | Niobium-90 | W, see ^{88}Nb | 1E+3 | 3E+3 | 1E-6 | 4E-9 | 1E-5 | 1E-4 |
| | | Y, see ^{88}Nb | - | 2E+3 | 1E-6 | 3E-9 | - | - |
| 41 | Niobium-93m | W, see ^{88}Nb | 9E+3 | 2E+3 | 8E-7 | 3E-9 | - | - |
| | | LLI wall (1E+4) | - | - | - | - | 2E-4 | 2E-3 |
| 41 | Niobium-94 | Y, see ^{88}Nb | - | 2E+2 | 7E-8 | 2E-10 | - | - |
| | | W, see ^{88}Nb | 9E+2 | 2E+2 | 8E-8 | 3E-10 | 1E-5 | 1E-4 |
| 41 | Niobium-95m | Y, see ^{88}Nb | - | 2E+1 | 6E-9 | 2E-11 | - | - |
| | | W, see ^{88}Nb | 2E+3 | 3E+3 | 1E-6 | 4E-9 | - | - |
| 41 | Niobium-95 | LLI wall (2E+3) | - | - | - | - | 3E-5 | 3E-4 |
| | | Y, see ^{88}Nb | - | 2E+3 | 9E-7 | 3E-9 | - | - |
| 41 | Niobium-96 | W, see ^{88}Nb | 2E+3 | 1E+3 | 5E-7 | 2E-9 | 3E-5 | 3E-4 |
| | | Y, see ^{88}Nb | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| 41 | Niobium-97 ² | W, see ^{88}Nb | 1E+3 | 3E+3 | 1E-6 | 4E-9 | 2E-5 | 2E-4 |
| | | Y, see ^{88}Nb | - | 2E+3 | 1E-6 | 3E-9 | - | - |
| 41 | Niobium-97 ² | W, see ^{88}Nb | 2E+4 | 8E+4 | 3E-5 | 1E-7 | 3E-4 | 3E-3 |
| | | Y, see ^{88}Nb | - | 7E+4 | 3E-5 | 1E-7 | - | - |
| 41 | Niobium-98 ² | W, see ^{88}Nb | 1E+4 | 5E+4 | 2E-5 | 8E-8 | 2E-4 | 2E-3 |
| | | Y, see ^{88}Nb | - | 5E+4 | 2E-5 | 7E-8 | - | - |
| 42 | Molybdenum-90 | D, all compounds except those given for Y | 4E+3 | 7E+3 | 3E-6 | 1E-8 | 3E-5 | 3E-4 |
| | | Y, oxides, hydroxides, and MoS | 2E+3 | 5E+3 | 2E-6 | 6E-9 | - | - |
| 42 | Molybdenum-93m | D, see ^{90}Mo | 9E+3 | 2E+4 | 7E-6 | 2E-8 | 6E-5 | 6E-4 |
| | | Y, see ^{90}Mo | 4E+3 | 1E+4 | 6E-6 | 2E-8 | - | - |
| 42 | Molybdenum-93 | D, see ^{90}Mo | 4E+3 | 5E+3 | 2E-6 | 8E-9 | 5E-5 | 5E-4 |
| | | Y, see ^{90}Mo | 2E+4 | 2E+2 | 8E-8 | 2E-10 | - | - |
| 42 | Molybdenum-99 | D, see ^{90}Mo | 2E+3 | 3E+3 | 1E-6 | 4E-9 | - | - |
| | | LLI wall (1E+3) | - | - | - | - | 2E-5 | 2E-4 |
| 42 | Molybdenum-101 ² | Y, see ^{90}Mo | 1E+3 | 1E+3 | 6E-7 | 2E-9 | - | - |
| | | D, see ^{90}Mo | 4E+4 | 1E+5 | 6E-5 | 2E-7 | - | - |
| 42 | Molybdenum-101 ² | St wall (5E+4) | - | - | - | - | 7E-4 | 7E-3 |
| | | Y, see ^{90}Mo | - | 1E+5 | 6E-5 | 2E-7 | - | - |
| 43 | Technetium-93m ² | D, all compounds except those given for W | 7E+4 | 2E+5 | 6E-5 | 2E-7 | 1E-3 | 1E-2 |
| | | W, oxides, hydroxides, halides, and nitrates | - | 3E+5 | 1E-4 | 4E-7 | - | - |
| 43 | Technetium-93 | D, see $^{93\text{m}}\text{Tc}$ | 3E+4 | 7E+4 | 3E-5 | 1E-7 | 4E-4 | 4E-3 |
| | | W, see $^{93\text{m}}\text{Tc}$ | - | 1E+5 | 4E-5 | 1E-7 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|-----------------------------|---|--|---------------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 43 | Technetium-94m ² | D, see ^{93m} Tc | 2E+4 | 4E+4 | 2E-5 | 6E-8 | 3E-4 | 3E-3 |
| | | W, see ^{93m} Tc | - | 6E+4 | 2E-5 | 8E-8 | - | - |
| 43 | Technetium-94 | D, see ^{93m} Tc | 9E+3 | 2E+4 | 8E-6 | 3E-8 | 1E-4 | 1E-3 |
| | | W, see ^{93m} Tc | - | 2E+4 | 1E-5 | 3E-8 | - | - |
| 43 | Technetium-95m | D, see ^{93m} Tc | 4E+3 | 5E+3 | 2E-6 | 8E-9 | 5E-5 | 5E-4 |
| | | W, see ^{93m} Tc | - | 2E+3 | 8E-7 | 3E-9 | - | - |
| 43 | Technetium-95 | D, see ^{93m} Tc | 1E+4 | 2E+4 | 9E-6 | 3E-8 | 1E-4 | 1E-3 |
| | | W, see ^{93m} Tc | - | 2E+4 | 8E-6 | 3E-8 | - | - |
| 43 | Technetium-96m ² | D, see ^{93m} Tc | 2E+5 | 3E+5 | 1E-4 | 4E-7 | 2E-3 | 2E-2 |
| | | W, see ^{93m} Tc | - | 2E+5 | 1E-4 | 3E-7 | - | - |
| 43 | Technetium-96 | D, see ^{93m} Tc | 2E+3 | 3E+3 | 1E-6 | 5E-9 | 3E-5 | 3E-4 |
| | | W, see ^{93m} Tc | - | 2E+3 | 9E-7 | 3E-9 | - | - |
| 43 | Technetium-97m | D, see ^{93m} Tc | 5E+3 | 7E+3 | 3E-6 | - | 6E-5 | 6E-4 |
| | | W, see ^{93m} Tc | - | St wall (7E+3) 1E+3 | - | 1E-8 2E-9 | - | - |
| 43 | Technetium-97 | D, see ^{93m} Tc | 4E+4 | 5E+4 | 2E-5 | 7E-8 | 5E-4 | 5E-3 |
| | | W, see ^{93m} Tc | - | 6E+3 | 2E-6 | 8E-9 | - | - |
| 43 | Technetium-98 | D, see ^{93m} Tc | 1E+3 | 2E+3 | 7E-7 | 2E-9 | 1E-5 | 1E-4 |
| | | W, see ^{93m} Tc | - | 3E+2 | 1E-7 | 4E-10 | - | - |
| 43 | Technetium-99m | D, see ^{93m} Tc | 8E+4 | 2E+5 | 6E-5 | 2E-7 | 1E-3 | 1E-2 |
| | | W, see ^{93m} Tc | - | 2E+5 | 1E-4 | 3E-7 | - | - |
| 43 | Technetium-99 | D, see ^{93m} Tc | 4E+3 | 5E+3 | 2E-6 | - | 6E-5 | 6E-4 |
| | | W, see ^{93m} Tc | - | St wall (6E+3) 7E+2 | - | 8E-9 9E-10 | - | - |
| 43 | Technetium-101 ² | D, see ^{93m} Tc | 9E+4 | 3E+5 | 1E-4 | 5E-7 | - | - |
| | | W, see ^{93m} Tc | - | St wall (1E+5) 4E+5 | - | - | 2E-3 | 2E-2 |
| 43 | Technetium-104 ² | D, see ^{93m} Tc | 2E+4 | 7E+4 | 3E-5 | 1E-7 | - | - |
| | | W, see ^{93m} Tc | - | St wall (3E+4) 9E+4 | - | - | 4E-4 | 4E-3 |
| 44 | Ruthenium-94 ² | D, all compounds except those given for W and Y | 2E+4 | 4E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| | | W, halides | - | 6E+4 | 3E-5 | 9E-8 | - | - |
| | | Y, oxides and hydroxides | - | 6E+4 | 2E-5 | 8E-8 | - | - |
| 44 | Ruthenium-97 | D, see ⁹⁴ Ru | 8E+3 | 2E+4 | 8E-6 | 3E-8 | 1E-4 | 1E-3 |
| | | W, see ⁹⁴ Ru | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| | | Y, see ⁹⁴ Ru | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 44 | Ruthenium-103 | D, see ⁹⁴ Ru | 2E+3 | 2E+3 | 7E-7 | 2E-9 | 3E-5 | 3E-4 |
| | | W, see ⁹⁴ Ru | - | 1E+3 | 4E-7 | 1E-9 | - | - |
| | | Y, see ⁹⁴ Ru | - | 6E+2 | 3E-7 | 9E-10 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|---|--|------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 44 | Ruthenium-105 | D, see ^{94}Ru | 5E+3 | 1E+4 | 6E-6 | 2E-8 | 7E-5 | 7E-4 |
| | | W, see ^{94}Ru | - | 1E+4 | 6E-6 | 2E-8 | - | - |
| | | Y, see ^{94}Ru | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 44 | Ruthenium-106 | D, see ^{94}Ru | 2E+2 | 9E+1 | 4E-8 | 1E-10 | - | - |
| | | | LLI wall (2E+2) | - | - | - | 3E-6 | 3E-5 |
| | | W, see ^{94}Ru | - | 5E+1 | 2E-8 | 8E-11 | - | - |
| | | Y, see ^{94}Ru | - | 1E+1 | 5E-9 | 2E-11 | - | - |
| 45 | Rhodium-99m | D, all compounds except those given for W and Y | 2E+4 | 6E+4 | 2E-5 | 8E-8 | 2E-4 | 2E-3 |
| | | W, halides | - | 8E+4 | 3E-5 | 1E-7 | - | - |
| | | Y, oxides and hydroxides | - | 7E+4 | 3E-5 | 9E-8 | - | - |
| 45 | Rhodium-99 | D, see $^{99\text{m}}\text{Rh}$ | 2E+3 | 3E+3 | 1E-6 | 4E-9 | 3E-5 | 3E-4 |
| | | W, see $^{99\text{m}}\text{Rh}$ | - | 2E+3 | 9E-7 | 3E-9 | - | - |
| | | Y, see $^{99\text{m}}\text{Rh}$ | - | 2E+3 | 8E-7 | 3E-9 | - | - |
| 45 | Rhodium-100 | D, see $^{99\text{m}}\text{Rh}$ | 2E+3 | 5E+3 | 2E-6 | 7E-9 | 2E-5 | 2E-4 |
| | | W, see $^{99\text{m}}\text{Rh}$ | - | 4E+3 | 2E-6 | 6E-9 | - | - |
| | | Y, see $^{99\text{m}}\text{Rh}$ | - | 4E+3 | 2E-6 | 5E-9 | - | - |
| 45 | Rhodium-101m | D, see $^{99\text{m}}\text{Rh}$ | 6E+3 | 1E+4 | 5E-6 | 2E-8 | 8E-5 | 8E-4 |
| | | W, see $^{99\text{m}}\text{Rh}$ | - | 8E+3 | 4E-6 | 1E-8 | - | - |
| | | Y, see $^{99\text{m}}\text{Rh}$ | - | 8E+3 | 3E-6 | 1E-8 | - | - |
| 45 | Rhodium-101 | D, see $^{99\text{m}}\text{Rh}$ | 2E+3 | 5E+2 | 2E-7 | 7E-10 | 3E-5 | 3E-4 |
| | | W, see $^{99\text{m}}\text{Rh}$ | - | 8E+2 | 3E-7 | 1E-9 | - | - |
| | | Y, see $^{99\text{m}}\text{Rh}$ | - | 2E+2 | 6E-8 | 2E-10 | - | - |
| 45 | Rhodium-102m | D, see $^{99\text{m}}\text{Rh}$ | 1E+3 | 5E+2 | 2E-7 | 7E-10 | - | - |
| | | | LLI wall (1E+3) | - | - | - | 2E-5 | 2E-4 |
| | | W, see $^{99\text{m}}\text{Rh}$ | - | 4E+2 | 2E-7 | 5E-10 | - | - |
| | | Y, see $^{99\text{m}}\text{Rh}$ | - | 1E+2 | 5E-8 | 2E-10 | - | - |
| 45 | Rhodium-102 | D, see $^{99\text{m}}\text{Rh}$ | 6E+2 | 9E+1 | 4E-8 | 1E-10 | 8E-6 | 8E-5 |
| | | W, see $^{99\text{m}}\text{Rh}$ | - | 2E+2 | 7E-8 | 2E-10 | - | - |
| | | Y, see $^{99\text{m}}\text{Rh}$ | - | 6E+1 | 2E-8 | 8E-11 | - | - |
| 45 | Rhodium-103m ² | D, see $^{99\text{m}}\text{Rh}$ | 4E+5 | 1E+6 | 5E-4 | 2E-6 | 6E-3 | 6E-2 |
| | | W, see $^{99\text{m}}\text{Rh}$ | - | 1E+6 | 5E-4 | 2E-6 | - | - |
| | | Y, see $^{99\text{m}}\text{Rh}$ | - | 1E+6 | 5E-4 | 2E-6 | - | - |
| 45 | Rhodium-105 | D, see $^{99\text{m}}\text{Rh}$ | 4E+3 | 1E+4 | 5E-6 | 2E-8 | - | - |
| | | | LLI wall (4E+3) | - | - | - | 5E-5 | 5E-4 |
| | | W, see $^{99\text{m}}\text{Rh}$ | - | 6E+3 | 3E-6 | 9E-9 | - | - |
| | | Y, see $^{99\text{m}}\text{Rh}$ | - | 6E+3 | 2E-6 | 8E-9 | - | - |
| 45 | Rhodium-106m | D, see $^{99\text{m}}\text{Rh}$ | 8E+3 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 |
| | | W, see $^{99\text{m}}\text{Rh}$ | - | 4E+4 | 2E-5 | 5E-8 | - | - |
| | | Y, see $^{99\text{m}}\text{Rh}$ | - | 4E+4 | 1E-5 | 5E-8 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|--------------------------|---|--|---|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) DAC ($\mu\text{Ci/ml}$) | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| 45 | Rhodium-107 ² | D, see ^{99m} Rh | 7E+4 | 2E+5 | 1E-4 | 3E-7 | - | - |
| | | St wall (9E+4) | - | - | - | - | 1E-3 | 1E-2 |
| | | W, see ^{99m} Rh | - | 3E+5 | 1E-4 | 4E-7 | - | - |
| | | Y, see ^{99m} Rh | - | 3E+5 | 1E-4 | 3E-7 | - | - |
| 46 | Palladium-100 | D, all compounds except those given for W and Y | 1E+3 | 1E+3 | 6E-7 | 2E-9 | 2E-5 | 2E-4 |
| | | W, nitrates | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| | | Y, oxides and hydroxides | - | 1E+3 | 6E-7 | 2E-9 | - | - |
| 46 | Palladium-101 | D, see ¹⁰⁰ Pd | 1E+4 | 3E+4 | 1E-5 | 5E-8 | 2E-4 | 2E-3 |
| | | W, see ¹⁰⁰ Pd | - | 3E+4 | 1E-5 | 5E-8 | - | - |
| | | Y, see ¹⁰⁰ Pd | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 46 | Palladium-103 | D, see ¹⁰⁰ Pd | 6E+3 | 6E+3 | 3E-6 | 9E-9 | - | - |
| | | LLI wall (7E+3) | - | - | - | - | 1E-4 | 1E-3 |
| | | W, see ¹⁰⁰ Pd | - | 4E+3 | 2E-6 | 6E-9 | - | - |
| | | Y, see ¹⁰⁰ Pd | - | 4E+3 | 1E-6 | 5E-9 | - | - |
| 46 | Palladium-107 | D, see ¹⁰⁰ Pd | 3E+4 | 2E+4 | 9E-6 | - | - | - |
| | | LLI wall (4E+4) | Kidneys (2E+4) | - | - | 3E-8 | 5E-4 | 5E-3 |
| | | W, see ¹⁰⁰ Pd | - | 7E+3 | 3E-6 | 1E-8 | - | - |
| | | Y, see ¹⁰⁰ Pd | - | 4E+2 | 2E-7 | 6E-10 | - | - |
| 46 | Palladium-109 | D, see ¹⁰⁰ Pd | 2E+3 | 6E+3 | 3E-6 | 9E-9 | 3E-5 | 3E-4 |
| | | W, see ¹⁰⁰ Pd | - | 5E+3 | 2E-6 | 8E-9 | - | - |
| | | Y, see ¹⁰⁰ Pd | - | 5E+3 | 2E-6 | 6E-9 | - | - |
| 47 | Silver-102 ² | D, all compounds except those given for W and Y | 5E+4 | 2E+5 | 8E-5 | 2E-7 | - | - |
| | | St wall (6E+4) | - | - | - | - | 9E-4 | 9E-3 |
| | | W, nitrates and sulfides | - | 2E+5 | 9E-5 | 3E-7 | - | - |
| | | Y, oxides and hydroxides | - | 2E+5 | 8E-5 | 3E-7 | - | - |
| 47 | Silver-103 ² | D, see ¹⁰² Ag | 4E+4 | 1E+5 | 4E-5 | 1E-7 | 5E-4 | 5E-3 |
| | | W, see ¹⁰² Ag | - | 1E+5 | 5E-5 | 2E-7 | - | - |
| | | Y, see ¹⁰² Ag | - | 1E+5 | 5E-5 | 2E-7 | - | - |
| 47 | Silver-104m ² | D, see ¹⁰² Ag | 3E+4 | 9E+4 | 4E-5 | 1E-7 | 4E-4 | 4E-3 |
| | | W, see ¹⁰² Ag | - | 1E+5 | 5E-5 | 2E-7 | - | - |
| | | Y, see ¹⁰² Ag | - | 1E+5 | 5E-5 | 2E-7 | - | - |
| 47 | Silver-104 ² | D, see ¹⁰² Ag | 2E+4 | 7E+4 | 3E-5 | 1E-7 | 3E-4 | 3E-3 |
| | | W, see ¹⁰² Ag | - | 1E+5 | 6E-5 | 2E-7 | - | - |
| | | Y, see ¹⁰² Ag | - | 1E+5 | 6E-5 | 2E-7 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|--------------------------|---|--|---|---------------------------|--|------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) | | DAC ($\mu\text{Ci/ml}$) | Air ($\mu\text{Ci/ml}$) | |
| 47 | Silver-105 | D, see ^{102}Ag W, see ^{102}Ag Y, see ^{102}Ag | 3E+3 - - | 1E+3 2E+3 2E+3 | 4E-7 7E-7 7E-7 | 1E-9 2E-9 2E-9 | 4E-5 - - | 4E-4 - - |
| 47 | Silver-106m | D, see ^{102}Ag W, see ^{102}Ag Y, see ^{102}Ag | 8E+2 - - | 7E+2 9E+2 9E+2 | 3E-7 4E-7 4E-7 | 1E-9 1E-9 1E-9 | 1E-5 - - | 1E-4 - - |
| 47 | Silver-106 ² | D, see ^{102}Ag St. wall (6E+4) W, see ^{102}Ag Y, see ^{102}Ag | 6E+4 - - | 2E+5 - 2E+5 | 8E-5 - 8E-5 | 3E-7 - 3E-7 | - 9E-4 - | - 9E-3 - |
| 47 | Silver-108m | D, see ^{102}Ag W, see ^{102}Ag Y, see ^{102}Ag | 6E+2 - - | 2E+2 3E+2 2E+1 | 8E-8 1E-7 1E-8 | 3E-10 4E-10 3E-11 | 9E-6 - - | 9E-5 - - |
| 47 | Silver-110m | D, see ^{102}Ag W, see ^{102}Ag Y, see ^{102}Ag | 5E+2 - - | 1E+2 2E+2 9E+1 | 5E-8 8E-8 4E-8 | 2E-10 3E-10 1E-10 | 6E-6 - - | 6E-5 - - |
| 47 | Silver-111 | D, see ^{102}Ag LLI wall (1E+3) W, see ^{102}Ag Y, see ^{102}Ag | 9E+2 - - | 2E+3 Liver (2E+3) 9E+2 9E+2 | 6E-7 - 4E-7 4E-7 | - 2E-9 1E-9 1E-9 | - 2E-5 - | - 2E-4 - - |
| 47 | Silver-112 | D, see ^{102}Ag W, see ^{102}Ag Y, see ^{102}Ag | 3E+3 - - | 8E+3 1E+4 9E+3 | 3E-6 4E-6 4E-6 | 1E-8 1E-8 1E-8 | 4E-5 - - | 4E-4 - - |
| 47 | Silver-115 ² | D, see ^{102}Ag St wall (3E+4) W, see ^{102}Ag Y, see ^{102}Ag | 3E+4 - - | 9E+4 - 8E+4 | 4E-5 - 3E-5 | 1E-7 - 1E-7 | - 4E-4 - | - 4E-3 - |
| 48 | Cadmium-104 ² | D, all compounds except those given for W and Y W, sulfides, halides, and nitrates Y, oxides and hydroxides | 2E+4 - - | 7E+4 1E+5 1E+5 | 3E-5 5E-5 5E-5 | 9E-8 2E-7 2E-7 | 3E-4 - - | 3E-3 - - |
| 48 | Cadmium-107 | D, see ^{104}Cd W, see ^{104}Cd Y, see ^{104}Cd | 2E+4 - - | 5E+4 6E+4 5E+4 | 2E-5 2E-5 2E-5 | 8E-8 8E-8 7E-8 | 3E-4 - - | 3E-3 - - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------------------|--|--|-------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 48 | Cadmium-109 | D, see ^{104}Cd | 3E+2 | 4E+1 | 1E-8 | - | - | - |
| | | | Kidneys (4E+2) | Kidneys (5E+1) | - | 7E-11 | 6E-6 | 6E-5 |
| | | W, see ^{104}Cd | - | 1E+2 | 5E-8 | - | - | - |
| | | | Kidneys (1E+2) | - | 2E-10 | - | - | |
| | | Y, see ^{104}Cd | - | 1E+2 | 5E-8 | 2E-10 | - | - |
| 48 | Cadmium-113m | D, see ^{104}Cd | 2E+1 | 2E+0 | 1E-9 | - | - | - |
| | | | Kidneys (4E+1) | Kidneys (4E+0) | - | 5E-12 | 5E-7 | 5E-6 |
| | | W, see ^{104}Cd | - | 8E+0 | 4E-9 | - | - | - |
| | | | Kidneys (1E+1) | - | 2E-11 | - | - | |
| | | Y, see ^{104}Cd | - | 1E+1 | 5E-9 | 2E-11 | - | - |
| 48 | Cadmium-113 | D, see ^{104}Cd | 2E+1 | 2E+0 | 9E-10 | - | - | - |
| | | | Kidneys (3E+1) | Kidneys (3E+0) | - | 5E-12 | 4E-7 | 4E-6 |
| | | W, see ^{104}Cd | - | 8E+0 | 3E-9 | - | - | - |
| | | | Kidneys (1E+1) | - | 2E-11 | - | - | |
| | | Y, see ^{104}Cd | - | 1E+1 | 6E-9 | 2E-11 | - | - |
| 48 | Cadmium-115m | D, see ^{104}Cd | 3E+2 | 5E+1 | 2E-8 | - | 4E-6 | 4E-5 |
| | | | - | Kidneys (8E+1) | - | 1E-10 | - | - |
| | | W, see ^{104}Cd | - | 1E+2 | 5E-8 | 2E-10 | - | - |
| | | Y, see ^{104}Cd | - | 1E+2 | 6E-8 | 2E-10 | - | - |
| 48 | Cadmium-115 | D, see ^{104}Cd | 9E+2 | 1E+3 | 6E-7 | 2E-9 | - | - |
| | | | LLI wall (1E+3) | - | - | - | 1E-5 | 1E-4 |
| | | W, see ^{104}Cd | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| | | Y, see ^{104}Cd | - | 1E+3 | 6E-7 | 2E-9 | - | - |
| 48 | Cadmium-117m | D, see ^{104}Cd | 5E+3 | 1E+4 | 5E-6 | 2E-8 | 6E-5 | 6E-4 |
| | | W, see ^{104}Cd | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| | | Y, see ^{104}Cd | - | 1E+4 | 6E-6 | 2E-8 | - | - |
| 48 | Cadmium-117 | D, see ^{104}Cd | 5E+3 | 1E+4 | 5E-6 | 2E-8 | 6E-5 | 6E-4 |
| | | W, see ^{104}Cd | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| | | Y, see ^{104}Cd | - | 1E+4 | 6E-6 | 2E-8 | - | - |
| 49 | Indium-109 | D, all compounds except those given for W | 2E+4 | 4E+4 | 2E-5 | 6E-8 | 3E-4 | 3E-3 |
| | | W, oxides, hydroxides, halides, and nitrates | - | 6E+4 | 3E-5 | 9E-8 | - | - |
| 49 | Indium-110 ² (69.1 min) | D, see ^{109}In | 2E+4 | 4E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| | | W, see ^{109}In | - | 6E+4 | 2E-5 | 8E-8 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|--|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 49 | Indium-110 (4.9 h) | D, see ^{109}In | 5E+3 | 2E+4 | 7E-6 | 2E-8 | 7E-5 | 7E-4 |
| | | W, see ^{109}In | - | 2E+4 | 8E-6 | 3E-8 | - | - |
| 49 | Indium-111 | D, see ^{109}In | 4E+3 | 6E+3 | 3E-6 | 9E-9 | 6E-5 | 6E-4 |
| | | W, see ^{109}In | - | 6E+3 | 3E-6 | 9E-9 | - | - |
| 49 | Indium-112 ² | D, see ^{109}In | 2E+5 | 6E+5 | 3E-4 | 9E-7 | 2E-3 | 2E-2 |
| | | W, see ^{109}In | - | 7E+5 | 3E-4 | 1E-6 | - | - |
| 49 | Indium-113m ² | D, see ^{109}In | 5E+4 | 1E+5 | 6E-5 | 2E-7 | 7E-4 | 7E-3 |
| | | W, see ^{109}In | - | 2E+5 | 8E-5 | 3E-7 | - | - |
| 49 | Indium-114m | D, see ^{109}In | 3E+2 | 6E+1 | 3E-8 | 9E-11 | - | - |
| | | W, see ^{109}In | LLI wall (4E+2) | - | - | - | 5E-6 | 5E-5 |
| 49 | Indium-115m | D, see ^{109}In | 1E+4 | 4E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| | | W, see ^{109}In | - | 5E+4 | 2E-5 | 7E-8 | - | - |
| 49 | Indium-115 | D, see ^{109}In | 4E+1 | 1E+0 | 6E-10 | 2E-12 | 5E-7 | 5E-6 |
| | | W, see ^{109}In | - | 5E+0 | 2E-9 | 8E-12 | - | - |
| 49 | Indium-116m ² | D, see ^{109}In | 2E+4 | 8E+4 | 3E-5 | 1E-7 | 3E-4 | 3E-3 |
| | | W, see ^{109}In | - | 1E+5 | 5E-5 | 2E-7 | - | - |
| 49 | Indium-117m ² | D, see ^{109}In | 1E+4 | 3E+4 | 1E-5 | 5E-8 | 2E-4 | 2E-3 |
| | | W, see ^{109}In | - | 4E+4 | 2E-5 | 6E-8 | - | - |
| 49 | Indium-117 ² | D, see ^{109}In | 6E+4 | 2E+5 | 7E-5 | 2E-7 | 8E-4 | 8E-3 |
| | | W, see ^{109}In | - | 2E+5 | 9E-5 | 3E-7 | - | - |
| 49 | Indium-119m ² | D, see ^{109}In | 4E+4 | 1E+5 | 5E-5 | 2E-7 | - | - |
| | | W, see ^{109}In | St wall (5E+4) | - | - | - | 7E-4 | 7E-3 |
| 50 | Tin-110 | D, all compounds except those given for W | 4E+3 | 1E+4 | 5E-6 | 2E-8 | 5E-5 | 5E-4 |
| | | W, sulfides, oxides, hydroxides, halides, nitrates, and stannic phosphate | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 50 | Tin-111 ² | D, see ^{110}Sn | 7E+4 | 2E+5 | 9E-5 | 3E-7 | 1E-3 | 1E-2 |
| | | W, see ^{110}Sn | - | 3E+5 | 1E-4 | 4E-7 | - | - |
| 50 | Tin-113 | D, see ^{110}Sn | 2E+3 | 1E+3 | 5E-7 | 2E-9 | - | - |
| | | W, see ^{110}Sn | LLI wall (2E+3) | - | - | - | 3E-5 | 3E-4 |
| 50 | Tin-117m | D, see ^{110}Sn | 2E+3 | 1E+3 | 5E-7 | - | - | - |
| | | W, see ^{110}Sn | LLI wall (2E+3) | Bone surf (2E+3) | - | 3E-9 | 3E-5 | 3E-4 |
| | | | - | 1E+3 | 6E-7 | 2E-9 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|----------------------------|---|--|---|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) DAC ($\mu\text{Ci/ml}$) | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| 50 | Tin-119m | D, see ^{110}Sn | 3E+3 | 2E+3 | 1E-6 | 3E-9 | - | - |
| | | | LLI wall (4E+3) | - | - | - | 6E-5 | 6E-4 |
| | | W, see ^{110}Sn | - | 1E+3 | 4E-7 | 1E-9 | - | - |
| 50 | Tin-121m | D, see ^{110}Sn | 3E+3 | 9E+2 | 4E-7 | 1E-9 | - | - |
| | | | LLI wall (4E+3) | - | - | - | 5E-5 | 5E-4 |
| | | W, see ^{110}Sn | - | 5E+2 | 2E-7 | 8E-10 | - | - |
| 50 | Tin-121 | D, see ^{110}Sn | 6E+3 | 2E+4 | 6E-6 | 2E-8 | - | - |
| | | | LLI wall (6E+3) | - | - | - | 8E-5 | 8E-4 |
| | | W, see ^{110}Sn | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 50 | Tin-123m ² | D, see ^{110}Sn | 5E+4 | 1E+5 | 5E-5 | 2E-7 | 7E-4 | 7E-3 |
| | | W, see ^{110}Sn | - | 1E+5 | 6E-5 | 2E-7 | - | - |
| 50 | Tin-123 | D, see ^{110}Sn | 5E+2 | 6E+2 | 3E-7 | 9E-10 | - | - |
| | | | LLI wall (6E+2) | - | - | - | 9E-6 | 9E-5 |
| | | W, see ^{110}Sn | - | 2E+2 | 7E-8 | 2E-10 | - | - |
| 50 | Tin-125 | D, see ^{110}Sn | 4E+2 | 9E+2 | 4E-7 | 1E-9 | - | - |
| | | | LLI wall (5E+2) | - | - | - | 6E-6 | 6E-5 |
| | | W, see ^{110}Sn | - | 4E+2 | 1E-7 | 5E-10 | - | - |
| 50 | Tin-126 | D, see ^{110}Sn | 3E+2 | 6E+1 | 2E-8 | 8E-11 | 4E-6 | 4E-5 |
| | | W, see ^{110}Sn | - | 7E+1 | 3E-8 | 9E-11 | - | - |
| 50 | Tin-127 | D, see ^{110}Sn | 7E+3 | 2E+4 | 8E-6 | 3E-8 | 9E-5 | 9E-4 |
| | | W, see ^{110}Sn | - | 2E+4 | 8E-6 | 3E-8 | - | - |
| 50 | Tin-128 ² | D, see ^{110}Sn | 9E+3 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 |
| | | W, see ^{110}Sn | - | 4E+4 | 1E-5 | 5E-8 | - | - |
| 51 | Antimony-115 ² | D, all compounds except those given for W | 8E+4 | 2E+5 | 1E-4 | 3E-7 | 1E-3 | 1E-2 |
| | | W, oxides, hydroxides, halides, sulfides, sulfates, and nitrates | - | 3E+5 | 1E-4 | 4E-7 | - | - |
| 51 | Antimony-116m ² | D, see ^{115}Sb | 2E+4 | 7E+4 | 3E-5 | 1E-7 | 3E-4 | 3E-3 |
| | | W, see ^{115}Sb | - | 1E+5 | 6E-5 | 2E-7 | - | - |
| 51 | Antimony-116 ² | D, see ^{115}Sb | 7E+4 | 3E+5 | 1E-4 | 4E-7 | - | - |
| | | | St wall (9E+4) | - | - | - | 1E-3 | 1E-2 |
| | | W, see ^{115}Sb | - | 3E+5 | 1E-4 | 5E-7 | - | - |
| 51 | Antimony-117 | D, see ^{115}Sb | 7E+4 | 2E+5 | 9E-5 | 3E-7 | 9E-4 | 9E-3 |
| | | W, see ^{115}Sb | - | 3E+5 | 1E-4 | 4E-7 | - | - |
| 51 | Antimony-118m | D, see ^{115}Sb | 6E+3 | 2E+4 | 8E-6 | 3E-8 | 7E-5 | 7E-4 |
| | | W, see ^{115}Sb | 5E+3 | 2E+4 | 9E-6 | 3E-8 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---|------------------------------|--|-------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 51 | Antimony-119 | D, see ^{115}Sb | 2E+4 | 5E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| | | W, see ^{115}Sb | 2E+4 | 3E+4 | 1E-5 | 4E-8 | - | - |
| 51 | Antimony-120 ² (16 min) | D, see ^{115}Sb | 1E+5 | 4E+5 | 2E-4 | 6E-7 | - | - |
| | | W, see ^{115}Sb | St wall (2E+5) | - | - | - | 2E-3 | 2E-2 |
| 51 | Antimony-120 (5.76 d) | D, see ^{115}Sb | 1E+3 | 2E+3 | 9E-7 | 3E-9 | 1E-5 | 1E-4 |
| | | W, see ^{115}Sb | 9E+2 | 1E+3 | 5E-7 | 2E-9 | - | - |
| 51 | Antimony-122 | D, see ^{115}Sb | 8E+2 | 2E+3 | 1E-6 | 3E-9 | - | - |
| | | W, see ^{115}Sb | LLI wall (8E+2) | - | - | - | 1E-5 | 1E-4 |
| 51 | Antimony-124m ² | D, see ^{115}Sb | 3E+5 | 8E+5 | 4E-4 | 1E-6 | 3E-3 | 3E-2 |
| | | W, see ^{115}Sb | 2E+5 | 6E+5 | 2E-4 | 8E-7 | - | - |
| 51 | Antimony-124 | D, see ^{115}Sb | 6E+2 | 9E+2 | 4E-7 | 1E-9 | 7E-6 | 7E-5 |
| | | W, see ^{115}Sb | 5E+2 | 2E+2 | 1E-7 | 3E-10 | - | - |
| 51 | Antimony-125 | D, see ^{115}Sb | 2E+3 | 2E+3 | 1E-6 | 3E-9 | 3E-5 | 3E-4 |
| | | W, see ^{115}Sb | - | 5E+2 | 2E-7 | 7E-10 | - | - |
| 51 | Antimony-126m ² | D, see ^{115}Sb | 5E+4 | 2E+5 | 8E-5 | 3E-7 | - | - |
| | | W, see ^{115}Sb | St wall (7E+4) | - | - | - | 9E-4 | 9E-3 |
| 51 | Antimony-126 | D, see ^{115}Sb | 6E+2 | 1E+3 | 5E-7 | 2E-9 | 7E-6 | 7E-5 |
| | | W, see ^{115}Sb | 5E+2 | 5E+2 | 2E-7 | 7E-10 | - | - |
| 51 | Antimony-127 | D, see ^{115}Sb | 8E+2 | 2E+3 | 9E-7 | 3E-9 | - | - |
| | | W, see ^{115}Sb | LLI wall (8E+2) | - | - | - | 1E-5 | 1E-4 |
| 51 | Antimony-128 ² (10.4 min) | D, see ^{115}Sb | 8E+4 | 4E+5 | 2E-4 | 5E-7 | - | - |
| | | W, see ^{115}Sb | St wall (1E+5) | - | - | - | 1E-3 | 1E-2 |
| 51 | Antimony-128 (9.01 h) | D, see ^{115}Sb | 1E+3 | 4E+3 | 2E-6 | 6E-9 | 2E-5 | 2E-4 |
| | | W, see ^{115}Sb | - | 3E+3 | 1E-6 | 5E-9 | - | - |
| 51 | Antimony-129 | D, see ^{115}Sb | 3E+3 | 9E+3 | 4E-6 | 1E-8 | 4E-5 | 4E-4 |
| | | W, see ^{115}Sb | - | 9E+3 | 4E-6 | 1E-8 | - | - |
| 51 | Antimony-130 ² | D, see ^{115}Sb | 2E+4 | 6E+4 | 3E-5 | 9E-8 | 3E-4 | 3E-3 |
| | | W, see ^{115}Sb | - | 8E+4 | 3E-5 | 1E-7 | - | - |
| 51 | Antimony-131 ² | D, see ^{115}Sb | 1E+4 | 2E+4 | 1E-5 | - | - | - |
| | | W, see ^{115}Sb | Thyroid (2E+4) | Thyroid (4E+4) | - | 6E-8 | 2E-4 | 2E-3 |
| | | | - | 2E+4 | 1E-5 | - | - | - |
| | | | Thyroid (4E+4) | - | 6E-8 | - | - | |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|----------------------------|--|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 52 | Tellurium-116 | D, all compounds except those given for W W, oxides, hydroxides, and nitrates | 8E+3 | 2E+4 | 9E-6 | 3E-8 | 1E-4 | 1E-3 |
| | | | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 52 | Tellurium-121m | D, see ^{116}Te | 5E+2 | 2E+2 | 8E-8 | - | - | - |
| | | | Bone surf (7E+2) | Bone surf (4E+2) | - | 5E-10 | 1E-5 | 1E-4 |
| | | W, see ^{116}Te | - | 4E+2 | 2E-7 | 6E-10 | - | - |
| 52 | Tellurium-121 | D, see ^{116}Te | 3E+3 | 4E+3 | 2E-6 | 6E-9 | 4E-5 | 4E-4 |
| | | W, see ^{116}Te | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| 52 | Tellurium-123m | D, see ^{116}Te | 6E+2 | 2E+2 | 9E-8 | - | - | - |
| | | | Bone surf (1E+3) | Bone surf (5E+2) | - | 8E-10 | 1E-5 | 1E-4 |
| | | W, see ^{116}Te | - | 5E+2 | 2E-7 | 8E-10 | - | - |
| 52 | Tellurium-123 | D, see ^{116}Te | 5E+2 | 2E+2 | 8E-8 | - | - | - |
| | | | Bone surf (1E+3) | Bone surf (5E+2) | - | 7E-10 | 2E-5 | 2E-4 |
| | | W, see ^{116}Te | - | 4E+2 | 2E-7 | - | - | - |
| | | | - | Bone surf (1E+3) | - | 2E-9 | - | - |
| 52 | Tellurium-125m | D, see ^{116}Te | 1E+3 | 4E+2 | 2E-7 | - | - | - |
| | | | Bone surf (1E+3) | Bone surf (1E+3) | - | 1E-9 | 2E-5 | 2E-4 |
| | | W, see ^{116}Te | - | 7E+2 | 3E-7 | 1E-9 | - | - |
| 52 | Tellurium-127m | D, see ^{116}Te | 6E+2 | 3E+2 | 1E-7 | - | 9E-6 | 9E-5 |
| | | | - | Bone surf (4E+2) | - | 6E-10 | - | - |
| | | W, see ^{116}Te | - | 3E+2 | 1E-7 | 4E-10 | - | - |
| 52 | Tellurium-127 | D, see ^{116}Te | 7E+3 | 2E+4 | 9E-6 | 3E-8 | 1E-4 | 1E-3 |
| | | W, see ^{116}Te | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| 52 | Tellurium-129m | D, see ^{116}Te | 5E+2 | 6E+2 | 3E-7 | 9E-10 | 7E-6 | 7E-5 |
| | | W, see ^{116}Te | - | 2E+2 | 1E-7 | 3E-10 | - | - |
| 52 | Tellurium-129 ² | D, see ^{116}Te | 3E+4 | 6E+4 | 3E-5 | 9E-8 | 4E-4 | 4E-3 |
| | | W, see ^{116}Te | - | 7E+4 | 3E-5 | 1E-7 | - | - |
| 52 | Tellurium-131m | D, see ^{116}Te | 3E+2 | 4E+2 | 2E-7 | - | - | - |
| | | | Thyroid (6E+2) | Thyroid (1E+3) | - | 2E-9 | 8E-6 | 8E-5 |
| | | W, see ^{116}Te | - | 4E+2 | 2E-7 | - | - | - |
| | | | - | Thyroid (9E+2) | - | 1E-9 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|-----------------------------|------------------------------|--|-------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 52 | Tellurium-131 ² | D, see ¹¹⁶ Te | 3E+3 | 5E+3 | 2E-6 | - | - | - |
| | | | Thyroid (6E+3) | Thyroid (1E+4) | - | 2E-8 | 8E-5 | 8E-4 |
| | | W, see ¹¹⁶ Te | - | 5E+3 | 2E-6 | - | - | - |
| | | | - | Thyroid (1E+4) | - | 2E-8 | - | - |
| 52 | Tellurium-132 | D, see ¹¹⁶ Te | 2E+2 | 2E+2 | 9E-8 | - | - | - |
| | | | Thyroid (7E+2) | Thyroid (8E+2) | - | 1E-9 | 9E-6 | 9E-5 |
| | | W, see ¹¹⁶ Te | - | 2E+2 | 9E-8 | - | - | - |
| | | | - | Thyroid (6E+2) | - | 9E-10 | - | - |
| 52 | Tellurium-133m ² | D, see ¹¹⁶ Te | 3E+3 | 5E+3 | 2E-6 | - | - | - |
| | | | Thyroid (6E+3) | Thyroid (1E+4) | - | 2E-8 | 9E-5 | 9E-4 |
| | | W, see ¹¹⁶ Te | - | 5E+3 | 2E-6 | - | - | - |
| | | | - | Thyroid (1E+4) | - | 2E-8 | - | - |
| 52 | Tellurium-133 ² | D, see ¹¹⁶ Te | 1E+4 | 2E+4 | 9E-6 | - | - | - |
| | | | Thyroid (3E+4) | Thyroid (6E+4) | - | 8E-8 | 4E-4 | 4E-3 |
| | | W, see ¹¹⁶ Te | - | 2E+4 | 9E-6 | - | - | - |
| | | | - | Thyroid (6E+4) | - | 8E-8 | - | - |
| 52 | Tellurium-134 ² | D, see ¹¹⁶ Te | 2E+4 | 2E+4 | 1E-5 | - | - | - |
| | | | Thyroid (2E+4) | Thyroid (5E+4) | - | 7E-8 | 3E-4 | 3E-3 |
| | | W, see ¹¹⁶ Te | - | 2E+4 | 1E-5 | - | - | - |
| | | | - | Thyroid (5E+4) | - | 7E-8 | - | - |
| 53 | Iodine-120m ² | D, all compounds | 1E+4 | 2E+4 | 9E-6 | 3E-8 | - | - |
| | | | Thyroid (2E+4) | - | - | - | 2E-4 | 2E-3 |
| 53 | Iodine-120 ² | D, all compounds | 4E+3 | 9E+3 | 4E-6 | - | - | - |
| | | | Thyroid (8E+3) | Thyroid (2E+4) | - | 2E-8 | 1E-4 | 1E-3 |
| 53 | Iodine-121 | D, all compounds | 1E+4 | 2E+4 | 8E-6 | - | - | - |
| | | | Thyroid (3E+3) | Thyroid (5E+4) | - | 7E-8 | 4E-4 | 4E-3 |
| 53 | Iodine-123 | D, all compounds | 3E+3 | 6E+3 | 3E-6 | - | - | - |
| | | | Thyroid (1E+4) | Thyroid (2E+4) | - | 2E-8 | 1E-4 | 1E-3 |
| 53 | Iodine-124 | D, all compounds | 5E+1 | 8E+1 | 3E-8 | - | - | - |
| | | | Thyroid (2E+2) | Thyroid (3E+2) | - | 4E-10 | 2E-6 | 2E-5 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|--------------------------|-------------------------|--|---|-----------|--|------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) | | DAC ($\mu\text{Ci/ml}$) | Air ($\mu\text{Ci/ml}$) | |
| 53 | Iodine-125 | D, all compounds | 4E+1 Thyroid (1E+2) | 6E+1 Thyroid (2E+2) | 3E-8 - | - 3E-10 | - 2E-6 | - 2E-5 |
| 53 | Iodine-126 | D, all compounds | 2E+1 Thyroid (7E+1) | 4E+1 Thyroid (1E+2) | 1E-8 - | - 2E-10 | - 1E-6 | - 1E-5 |
| 53 | Iodine-128 ² | D, all compounds | 4E+4 St wall (6E+4) | 1E+5 - | 5E-5 - | 2E-7 - | - 8E-4 | - 8E-3 |
| 53 | Iodine-129 | D, all compounds | 5E+0 Thyroid (2E+1) | 9E+0 Thyroid (3E+1) | 4E-9 - | - 4E-11 | - 2E-7 | - 2E-6 |
| 53 | Iodine-130 | D, all compounds | 4E+2 Thyroid (1E+3) | 7E+2 Thyroid (2E+3) | 3E-7 - | - 3E-9 | - 2E-5 | - 2E-4 |
| 53 | Iodine-131 | D, all compounds | 3E+1 Thyroid (9E+1) | 5E+1 Thyroid (2E+2) | 2E-8 - | - 2E-10 | - 1E-6 | - 1E-5 |
| 53 | Iodine-132m ² | D, all compounds | 4E+3 Thyroid (1E+4) | 8E+3 Thyroid (2E+4) | 4E-6 - | - 3E-8 | - 1E-4 | - 1E-3 |
| 53 | Iodine-132 | D, all compounds | 4E+3 Thyroid (9E+3) | 8E+3 Thyroid (1E+4) | 3E-6 - | - 2E-8 | - 1E-4 | - 1E-3 |
| 53 | Iodine-133 | D, all compounds | 1E+2 Thyroid (5E+2) | 3E+2 Thyroid (9E+2) | 1E-7 - | - 1E-9 | - 7E-6 | - 7E-5 |
| 53 | Iodine-134 ² | D, all compounds | 2E+4 Thyroid (3E+4) | 5E+4 - | 2E-5 - | 6E-8 - | - 4E-4 | - 4E-3 |
| 53 | Iodine-135 | D, all compounds | 8E+2 Thyroid (3E+3) | 2E+3 Thyroid (4E+3) | 7E-7 - | - 6E-9 | - 3E-5 | - 3E-4 |
| 54 | Xenon-120 ² | Submersion ¹ | - | - | 1E-5 | 4E-8 | - | - |
| 54 | Xenon-121 ² | Submersion ¹ | - | - | 2E-6 | 1E-8 | - | - |
| 54 | Xenon-122 | Submersion ¹ | - | - | 7E-5 | 3E-7 | - | - |
| 54 | Xenon-123 | Submersion ¹ | - | - | 6E-6 | 3E-8 | - | - |
| 54 | Xenon-125 | Submersion ¹ | - | - | 2E-5 | 7E-8 | - | - |
| 54 | Xenon-127 | Submersion ¹ | - | - | 1E-5 | 6E-8 | - | - |
| 54 | Xenon-129m | Submersion ¹ | - | - | 2E-4 | 9E-7 | - | - |
| 54 | Xenon-131m | Submersion ¹ | - | - | 4E-4 | 2E-6 | - | - |
| 54 | Xenon-133m | Submersion ¹ | - | - | 1E-4 | 6E-7 | - | - |
| 54 | Xenon-133 | Submersion ¹ | - | - | 1E-4 | 5E-7 | - | - |
| 54 | Xenon-135m ² | Submersion ¹ | - | - | 9E-6 | 4E-8 | - | - |
| 54 | Xenon-135 | Submersion ¹ | - | - | 1E-5 | 7E-8 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers | |
|------------|----------------------------|---|--|---------------------------|------------------------------|--|--------------------------------|---|--|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) | |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | | |
| | | | | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | |
| 54 | Xenon-138 ² | Submersion ¹ | - | - | 4E-6 | 2E-8 | - | - | |
| 55 | Cesium-125 ² | D, all compounds | 5E+4 | 1E+5 | 6E-5 | 2E-7 | - | - | |
| | | | St wall (9E+4) | - | - | - | 1E-3 | 1E-2 | |
| 55 | Cesium-127 | D, all compounds | 6E+4 | 9E+4 | 4E-5 | 1E-7 | 9E-4 | 9E-3 | |
| 55 | Cesium-129 | D, all compounds | 2E+4 | 3E+4 | 1E-5 | 5E-8 | 3E-4 | 3E-3 | |
| 55 | Cesium-130 ² | D, all compounds | 6E+4 | 2E+5 | 8E-5 | 3E-7 | - | - | |
| | | | St wall (1E+5) | - | - | - | 1E-3 | 1E-2 | |
| 55 | Cesium-131 | D, all compounds | 2E+4 | 3E+4 | 1E-5 | 4E-8 | 3E-4 | 3E-3 | |
| 55 | Cesium-132 | D, all compounds | 3E+3 | 4E+3 | 2E-6 | 6E-9 | 4E-5 | 4E-4 | |
| 55 | Cesium-134m | D, all compounds | 1E+5 | 1E+5 | 6E-5 | 2E-7 | - | - | |
| | | | St wall (1E+5) | - | - | - | 2E-3 | 2E-2 | |
| 55 | Cesium-134 | D, all compounds | 7E+1 | 1E+2 | 4E-8 | 2E-10 | 9E-7 | 9E-6 | |
| 55 | Cesium-135m ² | D, all compounds | 1E+5 | 2E+5 | 8E-5 | 3E-7 | 1E-3 | 1E-2 | |
| 55 | Cesium-135 | D, all compounds | 7E+2 | 1E+3 | 5E-7 | 2E-9 | 1E-5 | 1E-4 | |
| 55 | Cesium-136 | D, all compounds | 4E+2 | 7E+2 | 3E-7 | 9E-10 | 6E-6 | 6E-5 | |
| 55 | Cesium-137 | D, all compounds | 1E+2 | 2E+2 | 6E-8 | 2E-10 | 1E-6 | 1E-5 | |
| 55 | Cesium-138 ² | D, all compounds | 2E+4 | 6E+4 | 2E-5 | 8E-8 | - | - | |
| | | | St wall (3E+4) | - | - | - | 4E-4 | 4E-3 | |
| 56 | Barium-126 ² | D, all compounds | 6E+3 | 2E+4 | 6E-6 | 2E-8 | 8E-5 | 8E-4 | |
| 56 | Barium-128 | D, all compounds | 5E+2 | 2E+3 | 7E-7 | 2E-9 | 7E-6 | 7E-5 | |
| 56 | Barium-131m ² | D, all compounds | 4E+5 | 1E+6 | 6E-4 | 2E-6 | - | - | |
| | | | St wall (5E+5) | - | - | - | 7E-3 | 7E-2 | |
| 56 | Barium-131 | D, all compounds | 3E+3 | 8E+3 | 3E-6 | 1E-8 | 4E-5 | 4E-4 | |
| 56 | Barium-133m | D, all compounds | 2E+3 | 9E+3 | 4E-6 | 1E-8 | - | - | |
| | | | LLI wall (3E+3) | - | - | - | 4E-5 | 4E-4 | |
| 56 | Barium-133 | D, all compounds | 2E+3 | 7E+2 | 3E-7 | 9E-10 | 2E-5 | 2E-4 | |
| 56 | Barium-135m | D, all compounds | 3E+3 | 1E+4 | 5E-6 | 2E-8 | 4E-5 | 4E-4 | |
| 56 | Barium-139 ² | D, all compounds | 1E+4 | 3E+4 | 1E-5 | 4E-8 | 2E-4 | 2E-3 | |
| 56 | Barium-140 | D, all compounds | 5E+2 | 1E+3 | 6E-7 | 2E-9 | - | - | |
| | | | LLI wall (6E+2) | - | - | - | 8E-6 | 8E-5 | |
| 56 | Barium-141 ² | D, all compounds | 2E+4 | 7E+4 | 3E-5 | 1E-7 | 3E-4 | 3E-3 | |
| 56 | Barium-142 ² | D, all compounds | 5E+4 | 1E+5 | 6E-5 | 2E-7 | 7E-4 | 7E-3 | |
| 57 | Lanthanum-131 ² | D, all compounds except those given for W | 5E+4 | 1E+5 | 5E-5 | 2E-7 | 6E-4 | 6E-3 | |
| | | W, oxides and hydroxides | - | 2E+5 | 7E-5 | 2E-7 | - | - | |
| 57 | Lanthanum-132 | D, see ¹³¹ La | 3E+3 | 1E+4 | 4E-6 | 1E-8 | 4E-5 | 4E-4 | |
| | | W, see ¹³¹ La | - | 1E+4 | 5E-6 | 2E-8 | - | - | |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|----------------------------|---|--|-----------------------------|-------------------------------------|---|---|--|
| | | | Col. 1 Oral Ingestion ALI (μCi) | Col. 2 Col. 3 Inhalation | | Col. 1 Air ($\mu\text{Ci}/\text{ml}$) | Col. 2 Water ($\mu\text{Ci}/\text{ml}$) | Monthly Average Concentrations ($\mu\text{Ci}/\text{ml}$) |
| | | | | ALI (μCi) | DAC ($\mu\text{Ci}/\text{ml}$) | | | |
| 57 | Lanthanum-135 | D, see ^{131}La | 4E+4 | 1E+5 | 4E-5 | 1E-7 | 5E-4 | 5E-3 |
| | | W, see ^{131}La | - | 9E+4 | 4E-5 | 1E-7 | - | - |
| 57 | Lanthanum-137 | D, see ^{131}La | 1E+4 | 6E+1 | 3E-8 | - | 2E-4 | 2E-3 |
| | | | | Liver (7E+1) | - | 1E-10 | - | - |
| | | W, see ^{131}La | - | 3E+2 | 1E-7 | - | - | - |
| | | | | Liver (3E+2) | - | 4E-10 | - | - |
| 57 | Lanthanum-138 | D, see ^{131}La | 9E+2 | 4E+0 | 1E-9 | 5E-12 | 1E-5 | 1E-4 |
| | | W, see ^{131}La | - | 1E+1 | 6E-9 | 2E-11 | - | - |
| 57 | Lanthanum-140 | D, see ^{131}La | 6E+2 | 1E+3 | 6E-7 | 2E-9 | 9E-6 | 9E-5 |
| | | W, see ^{131}La | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| 57 | Lanthanum-141 | D, see ^{131}La | 4E+3 | 9E+3 | 4E-6 | 1E-8 | 5E-5 | 5E-4 |
| | | W, see ^{131}La | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 57 | Lanthanum-142 ² | D, see ^{131}La | 8E+3 | 2E+4 | 9E-6 | 3E-8 | 1E-4 | 1E-3 |
| | | W, see ^{131}La | - | 3E+4 | 1E-5 | 5E-8 | - | - |
| 57 | Lanthanum-143 ² | D, see ^{131}La | 4E+4 | 1E+5 | 4E-5 | 1E-7 | - | - |
| | | | St wall (4E+4) | - | - | - | 5E-4 | 5E-3 |
| | | W, see ^{131}La | - | 9E+4 | 4E-5 | 1E-7 | - | - |
| 58 | Cerium-134 | W, all compounds except those given for Y | 5E+2 | 7E+2 | 3E-7 | 1E-9 | - | - |
| | | | LLI wall (6E+2) | - | - | - | 8E-6 | 8E-5 |
| | | Y, oxides, hydroxides, and fluorides | - | 7E+2 | 3E-7 | 9E-10 | - | - |
| 58 | Cerium-135 | W, see ^{134}Ce | 2E+3 | 4E+3 | 2E-6 | 5E-9 | 2E-5 | 2E-4 |
| | | Y, see ^{134}Ce | - | 4E+3 | 1E-6 | 5E-9 | - | - |
| 58 | Cerium-137m | W, see ^{134}Ce | 2E+3 | 4E+3 | 2E-6 | 6E-9 | - | - |
| | | | LLI wall (2E+3) | - | - | - | 3E-5 | 3E-4 |
| | | Y, see ^{134}Ce | - | 4E+3 | 2E-6 | 5E-9 | - | - |
| 58 | Cerium-137 | W, see ^{134}Ce | 5E+4 | 1E+5 | 6E-5 | 2E-7 | 7E-4 | 7E-3 |
| | | Y, see ^{134}Ce | - | 1E+5 | 5E-5 | 2E-7 | - | - |
| 58 | Cerium-139 | W, see ^{134}Ce | 5E+3 | 8E+2 | 3E-7 | 1E-9 | 7E-5 | 7E-4 |
| | | Y, see ^{134}Ce | - | 7E+2 | 3E-7 | 9E-10 | - | - |
| 58 | Cerium-141 | W, see ^{134}Ce | 2E+3 | 7E+2 | 3E-7 | 1E-9 | - | - |
| | | | LLI wall (2E+3) | - | - | - | 3E-5 | 3E-4 |
| | | Y, see ^{134}Ce | - | 6E+2 | 2E-7 | 8E-10 | - | - |
| 58 | Cerium-143 | W, see ^{134}Ce | 1E+3 | 2E+3 | 8E-7 | 3E-9 | - | - |
| | | | LLI wall (1E+3) | - | - | - | 2E-5 | 2E-4 |
| | | Y, see ^{134}Ce | - | 2E+3 | 7E-7 | 2E-9 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|--------------------------------|--|--|------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 58 | Cerium-144 | W, see ^{134}Ce | 2E+2 | 3E+1 | 1E-8 | 4E-11 | - | - |
| | | | LLI wall (3E+2) | - | - | - | 3E-6 | 3E-5 |
| | | Y, see ^{134}Ce | - | 1E+1 | 6E-9 | 2E-11 | - | - |
| 59 | Praseodymium-136 ² | W, all compounds | 5E+4 | 2E+5 | 1E-4 | 3E-7 | - | - |
| | | | St wall (7E+4) | - | - | - | 1E-3 | 1E-2 |
| | | Y, oxides, hydroxides, carbides, and fluorides | - | 2E+5 | 9E-5 | 3E-7 | - | - |
| 59 | Praseodymium-137 ² | W, see ^{136}Pr | 4E+4 | 2E+5 | 6E-5 | 2E-7 | 5E-4 | 5E-3 |
| | | Y, see ^{136}Pr | - | 1E+5 | 6E-5 | 2E-7 | - | - |
| 59 | Praseodymium-138m | W, see ^{136}Pr | 1E+4 | 5E+4 | 2E-5 | 8E-8 | 1E-4 | 1E-3 |
| | | Y, see ^{136}Pr | - | 4E+4 | 2E-5 | 6E-8 | - | - |
| 59 | Praseodymium-139 | W, see ^{136}Pr | 4E+4 | 1E+5 | 5E-5 | 2E-7 | 6E-4 | 6E-3 |
| | | Y, see ^{136}Pr | - | 1E+5 | 5E-5 | 2E-7 | - | - |
| 59 | Praseodymium-142m ² | W, see ^{136}Pr | 8E+4 | 2E+5 | 7E-5 | 2E-7 | 1E-3 | 1E-2 |
| | | Y, see ^{136}Pr | - | 1E+5 | 6E-5 | 2E-7 | - | - |
| 59 | Praseodymium-142 | W, see ^{136}Pr | 1E+3 | 2E+3 | 9E-7 | 3E-9 | 1E-5 | 1E-4 |
| | | Y, see ^{136}Pr | - | 2E+3 | 8E-7 | 3E-9 | - | - |
| 59 | Praseodymium-143 | W, see ^{136}Pr | 9E+2 | 8E+2 | 3E-7 | 1E-9 | - | - |
| | | | LLI wall (1E+3) | - | - | - | 2E-5 | 2E-4 |
| | | Y, see ^{136}Pr | - | 7E+2 | 3E-7 | 9E-10 | - | - |
| 59 | Praseodymium-144 ² | W, see ^{136}Pr | 3E+4 | 1E+5 | 5E-5 | 2E-7 | - | - |
| | | | St wall (4E+4) | - | - | - | 6E-4 | 6E-3 |
| | | Y, see ^{136}Pr | - | 1E+5 | 5E-5 | 2E-7 | - | - |
| 59 | Praseodymium-145 | W, see ^{136}Pr | 3E+3 | 9E+3 | 4E-6 | 1E-8 | 4E-5 | 4E-4 |
| | | Y, see ^{136}Pr | - | 8E+3 | 3E-6 | 1E-8 | - | - |
| 59 | Praseodymium-147 ² | W, see ^{136}Pr | 5E+4 | 2E+5 | 8E-5 | 3E-7 | - | - |
| | | | St wall (8E+4) | - | - | - | 1E-3 | 1E-2 |
| | | Y, see ^{136}Pr | - | 2E+5 | 8E-5 | 3E-7 | - | - |
| 60 | Neodymium-136 ² | W, all compounds except those given for Y | 1E+4 | 6E+4 | 2E-5 | 8E-8 | 2E-4 | 2E-3 |
| | | Y, oxides, hydroxides, carbides, and fluorides | - | 5E+4 | 2E-5 | 8E-8 | - | - |
| 60 | Neodymium-138 | W, see ^{136}Nd | 2E+3 | 6E+3 | 3E-6 | 9E-9 | 3E-5 | 3E-4 |
| | | Y, see ^{136}Nd | - | 5E+3 | 2E-6 | 7E-9 | - | - |
| 60 | Neodymium-139m | W, see ^{136}Nd | 5E+3 | 2E+4 | 7E-6 | 2E-8 | 7E-5 | 7E-4 |
| | | Y, see ^{136}Nd | - | 1E+4 | 6E-6 | 2E-8 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|-----------------------------|--|--|------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 60 | Neodymium-139 ² | W, see ¹³⁶ Nd | 9E+4 | 3E+5 | 1E-4 | 5E-7 | 1E-3 | 1E-2 |
| | | Y, see ¹³⁶ Nd | - | 3E+5 | 1E-4 | 4E-7 | - | - |
| 60 | Neodymium-141 | W, see ¹³⁶ Nd | 2E+5 | 7E+5 | 3E-4 | 1E-6 | 2E-3 | 2E-2 |
| | | Y, see ¹³⁶ Nd | - | 6E+5 | 3E-4 | 9E-7 | - | - |
| 60 | Neodymium-147 | W, see ¹³⁶ Nd | 1E+3 | 9E+2 | 4E-7 | 1E-9 | - | - |
| | | LLI wall (1E+3) | - | - | - | - | 2E-5 | 2E-4 |
| 60 | Neodymium-149 ² | Y, see ¹³⁶ Nd | - | 8E+2 | 4E-7 | 1E-9 | - | - |
| | | W, see ¹³⁶ Nd | 1E+4 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 |
| 60 | Neodymium-151 ² | Y, see ¹³⁶ Nd | - | 2E+4 | 1E-5 | 3E-8 | - | - |
| | | W, see ¹³⁶ Nd | 7E+4 | 2E+5 | 8E-5 | 3E-7 | 9E-4 | 9E-3 |
| 60 | Neodymium-151 ² | Y, see ¹³⁶ Nd | - | 2E+5 | 8E-5 | 3E-7 | - | - |
| | | W, all compounds except those given for Y | 5E+4 | 2E+5 | 8E-5 | 3E-7 | - | - |
| 61 | Promethium-141 ² | St wall (6E+4) | - | - | - | - | 8E-4 | 8E-3 |
| | | Y, oxides, hydroxides, carbides, and fluorides | - | 2E+5 | 7E-5 | 2E-7 | - | - |
| 61 | Promethium-143 | W, see ¹⁴¹ Pm | 5E+3 | 6E+2 | 2E-7 | 8E-10 | 7E-5 | 7E-4 |
| | | Y, see ¹⁴¹ Pm | - | 7E+2 | 3E-7 | 1E-9 | - | - |
| 61 | Promethium-144 | W, see ¹⁴¹ Pm | 1E+3 | 1E+2 | 5E-8 | 2E-10 | 2E-5 | 2E-4 |
| | | Y, see ¹⁴¹ Pm | - | 1E+2 | 5E-8 | 2E-10 | - | - |
| 61 | Promethium-145 | W, see ¹⁴¹ Pm | 1E+4 | 2E+2 | 7E-8 | - | 1E-4 | 1E-3 |
| | | Bone surf (2E+2) | - | - | - | 3E-10 | - | - |
| 61 | Promethium-146 | Y, see ¹⁴¹ Pm | - | 2E+2 | 8E-8 | 3E-10 | - | - |
| | | W, see ¹⁴¹ Pm | 2E+3 | 5E+1 | 2E-8 | 7E-11 | 2E-5 | 2E-4 |
| 61 | Promethium-147 | Y, see ¹⁴¹ Pm | - | 4E+1 | 2E-8 | 6E-11 | - | - |
| | | W, see ¹⁴¹ Pm | 4E+3 | 1E+2 | 5E-8 | - | - | - |
| 61 | Promethium-148m | LLI wall (5E+3) | - | 1E+2 | 6E-8 | 2E-10 | - | - |
| | | W, see ¹⁴¹ Pm | 7E+2 | 3E+2 | 1E-7 | 4E-10 | 1E-5 | 1E-4 |
| 61 | Promethium-148 | Y, see ¹⁴¹ Pm | - | 3E+2 | 1E-7 | 5E-10 | - | - |
| | | W, see ¹⁴¹ Pm | 4E+2 | 5E+2 | 2E-7 | 8E-10 | - | - |
| 61 | Promethium-149 | LLI wall (5E+2) | - | - | - | - | 7E-6 | 7E-5 |
| | | W, see ¹⁴¹ Pm | 1E+3 | 2E+3 | 8E-7 | 3E-9 | - | - |
| 61 | Promethium-149 | LLI wall (1E+3) | - | - | - | - | 2E-5 | 2E-4 |
| | | Y, see ¹⁴¹ Pm | - | 2E+3 | 8E-7 | 2E-9 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|----------------------------|------------------------------|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 61 | Promethium-150 | W, see ^{141}Pm | 5E+3 | 2E+4 | 8E-6 | 3E-8 | 7E-5 | 7E-4 |
| | | Y, see ^{141}Pm | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| 61 | Promethium-151 | W, see ^{141}Pm | 2E+3 | 4E+3 | 1E-6 | 5E-9 | 2E-5 | 2E-4 |
| | | Y, see ^{141}Pm | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| 62 | Samarium-141m ² | W, all compounds | 3E+4 | 1E+5 | 4E-5 | 1E-7 | 4E-4 | 4E-3 |
| 62 | Samarium-141 ² | W, all compounds | 5E+4 | 2E+5 | 8E-5 | 2E-7 | - | - |
| | | | St wall (6E+4) | - | - | - | 8E-4 | 8E-3 |
| 62 | Samarium-142 ² | W, all compounds | 8E+3 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 |
| 62 | Samarium-145 | W, all compounds | 6E+3 | 5E+2 | 2E-7 | 7E-10 | 8E-5 | 8E-4 |
| 62 | Samarium-146 | W, all compounds | 1E+1 | 4E-2 | 1E-11 | - | - | - |
| | | | Bone surf (3E+1) | Bone surf (6E-2) | - | 9E-14 | 3E-7 | 3E-6 |
| 62 | Samarium-147 | W, all compounds | 2E+1 | 4E-2 | 2E-11 | - | - | - |
| | | | Bone surf (3E+1) | Bone surf (7E-2) | - | 1E-13 | 4E-7 | 4E-6 |
| 62 | Samarium-151 | W, all compounds | 1E+4 | 1E+2 | 4E-8 | - | - | - |
| | | | LLI wall (1E-4) | Bone surf (2E+2) | - | 2E-10 | 2E-4 | 2E-3 |
| 62 | Samarium-153 | W, all compounds | 2E+3 | 3E+3 | 1E-6 | 4E-9 | - | - |
| | | | LLI wall (2E+3) | - | - | - | 3E-5 | 3E-4 |
| 62 | Samarium-155 ² | W, all compounds | 6E+4 | 2E+5 | 9E-5 | 3E-7 | - | - |
| | | | St wall (8E+4) | - | - | - | 1E-3 | 1E-2 |
| 62 | Samarium-156 | W, all compounds | 5E+3 | 9E+3 | 4E-6 | 1E-8 | 7E-5 | 7E-4 |
| 63 | Europium-145 | W, all compounds | 2E+3 | 2E+3 | 8E-7 | 3E-9 | 2E-5 | 2E-4 |
| 63 | Europium-146 | W, all compounds | 1E+3 | 1E+3 | 5E-7 | 2E-9 | 1E-5 | 1E-4 |
| 63 | Europium-147 | W, all compounds | 3E+3 | 2E+3 | 7E-7 | 2E-9 | 4E-5 | 4E-4 |
| 63 | Europium-148 | W, all compounds | 1E+3 | 4E+2 | 1E-7 | 5E-10 | 1E-5 | 1E-4 |
| 63 | Europium-149 | W, all compounds | 1E+4 | 3E+3 | 1E-6 | 4E-9 | 2E-4 | 2E-3 |
| 63 | Europium-150 (12.62 h) | W, all compounds | 3E+3 | 8E+3 | 4E-6 | 1E-8 | 4E-5 | 4E-4 |
| 63 | Europium-150 (34.2 y) | W, all compounds | 8E+2 | 2E+1 | 8E-9 | 3E-11 | 1E-5 | 1E-4 |
| 63 | Europium-152m | W, all compounds | 3E+3 | 6E+3 | 3E-6 | 9E-9 | 4E-5 | 4E-4 |
| 63 | Europium-152 | W, all compounds | 8E+2 | 2E+1 | 1E-8 | 3E-11 | 1E-5 | 1E-4 |
| 63 | Europium-154 | W, all compounds | 5E+2 | 2E+1 | 8E-9 | 3E-11 | 7E-6 | 7E-5 |
| 63 | Europium-155 | W, all compounds | 4E+3 | 9E+1 | 4E-8 | - | 5E-5 | 5E-4 |
| | | | - | Bone surf (1E+2) | - | 2E-10 | - | - |
| 63 | Europium-156 | W, all compounds | 6E+2 | 5E+2 | 2E-7 | 6E-10 | 8E-6 | 8E-5 |
| 63 | Europium-157 | W, all compounds | 2E+3 | 5E+3 | 2E-6 | 7E-9 | 3E-5 | 3E-4 |
| 63 | Europium-158 ² | W, all compounds | 2E+4 | 6E+4 | 2E-5 | 8E-8 | 3E-4 | 3E-3 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|-----------------------------|---|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 64 | Gadolinium-145 ² | D, all compounds except those given for W | 5E+4 | 2E+5 | 6E-5 | 2E-7 | - | - |
| | | | St wall (5E+4) | - | - | - | 6E-4 | 6E-3 |
| | | W, oxides, hydroxides, and fluorides | - | 2E+5 | 7E-5 | 2E-7 | - | - |
| 64 | Gadolinium-146 | D, see ¹⁴⁵ Gd | 1E+3 | 1E+2 | 5E-8 | 2E-10 | 2E-5 | 2E-4 |
| | | W, see ¹⁴⁵ Gd | - | 3E+2 | 1E-7 | 4E-10 | - | - |
| 64 | Gadolinium-147 | D, see ¹⁴⁵ Gd | 2E+3 | 4E+3 | 2E-6 | 6E-9 | 3E-5 | 3E-4 |
| | | W, see ¹⁴⁵ Gd | - | 4E+3 | 1E-6 | 5E-9 | - | - |
| 64 | Gadolinium-148 | D, see ¹⁴⁵ Gd | 1E+1 | 8E+3 | 3E-12 | - | - | - |
| | | | Bone surf (2E+1) | Bone surf (2E+2) | - | 2E-14 | 3E-7 | 3E-6 |
| | | W, see ¹⁴⁵ Gd | - | 3E-2 | 1E-11 | - | - | - |
| | | | - | Bone surf (6E-2) | - | 8E-14 | - | - |
| 64 | Gadolinium-149 | D, see ¹⁴⁵ Gd | 3E+3 | 2E+3 | 9E-7 | 3E-9 | 4E-5 | 4E-4 |
| | | W, see ¹⁴⁵ Gd | - | 2E+3 | 1E-6 | 3E-9 | - | - |
| 64 | Gadolinium-151 | D, see ¹⁴⁵ Gd | 6E+3 | 4E+2 | 2E-7 | - | 9E-5 | 9E-4 |
| | | | - | Bone surf (6E+2) | - | 9E-10 | - | - |
| | | W, see ¹⁴⁵ Gd | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| 64 | Gadolinium-152 | D, see ¹⁴⁵ Gd | 2E+1 | 1E-2 | 4E-12 | - | - | - |
| | | | Bone surf (3E+1) | Bone surf (2E-2) | - | 3E-14 | 4E-7 | 4E-6 |
| | | W, see ¹⁴⁵ Gd | - | 4E-2 | 2E-11 | - | - | - |
| | | | - | Bone surf (8E-2) | - | 1E-13 | - | - |
| 64 | Gadolinium-153 | D, see ¹⁴⁵ Gd | 5E+3 | 1E+2 | 6E-8 | - | 6E-5 | 6E-4 |
| | | | - | Bone surf (2E+2) | - | 3E-10 | - | - |
| | | W, see ¹⁴⁵ Gd | - | 6E+2 | 2E-7 | 8E-10 | - | - |
| 64 | Gadolinium-159 | D, see ¹⁴⁵ Gd | 3E+3 | 8E+3 | 3E-6 | 1E-8 | 4E-5 | 4E-4 |
| | | W, see ¹⁴⁵ Gd | - | 6E+3 | 2E-6 | 8E-9 | - | - |
| 65 | Terbium-147 ² | W, all compounds | 9E+3 | 3E+4 | 1E-5 | 5E-8 | 1E-4 | 1E-3 |
| 65 | Terbium-149 | W, all compounds | 5E+3 | 7E+2 | 3E-7 | 1E-9 | 7E-5 | 7E-4 |
| 65 | Terbium-150 | W, all compounds | 5E+3 | 2E+4 | 9E-6 | 3E-8 | 7E-5 | 7E-4 |
| 65 | Terbium-151 | W, all compounds | 4E+3 | 9E+3 | 4E-6 | 1E-8 | 5E-5 | 5E-4 |
| 65 | Terbium-153 | W, all compounds | 5E+3 | 7E+3 | 3E-6 | 1E-8 | 7E-5 | 7E-4 |
| 65 | Terbium-154 | W, all compounds | 2E+3 | 4E+3 | 2E-6 | 6E-9 | 2E-5 | 2E-4 |
| 65 | Terbium-155 | W, all compounds | 6E+3 | 8E+3 | 3E-6 | 1E-8 | 8E-5 | 8E-4 |
| 65 | Terbium-156m (5.0 h) | W, all compounds | 2E+4 | 3E+4 | 1E-5 | 4E-8 | 2E-4 | 2E-3 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|------------------|---|---------------------------|------------------------------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | | | | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | |
| 65 | Terbium-156m (24.4 h) | W, all compounds | 7E+3 | 8E+3 | 3E-6 | 1E-8 | 1E-4 | 1E-3 |
| 65 | Terbium-156 | W, all compounds | 1E+3 | 1E+3 | 6E-7 | 2E-9 | 1E-5 | 1E-4 |
| 65 | Terbium-157 | W, all compounds | 5E+4 | 3E+2 | 1E-7 | - | - | - |
| | | | LLI wall (5E+4) | Bone surf (6E+2) | - | 8E-10 | 7E-4 | 7E-3 |
| 65 | Terbium-158 | W, all compounds | 1E+3 | 2E+1 | 8E-9 | 3E-11 | 2E-5 | 2E-4 |
| 65 | Terbium-160 | W, all compounds | 8E+2 | 2E+2 | 9E-8 | 3E-10 | 1E-5 | 1E-4 |
| 65 | Terbium-161 | W, all compounds | 2E+3 | 2E+3 | 7E-7 | 2E-9 | - | - |
| | | | LLI wall (2E+3) | - | - | - | 3E-5 | 3E-4 |
| 66 | Dysprosium-155 | W, all compounds | 9E+3 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 |
| 66 | Dysprosium-157 | W, all compounds | 2E+4 | 6E+4 | 3E-5 | 9E-8 | 3E-4 | 3E-3 |
| 66 | Dysprosium-159 | W, all compounds | 1E+4 | 2E+3 | 1E-6 | 3E-9 | 2E-4 | 2E-3 |
| 66 | Dysprosium-165 | W, all compounds | 1E+4 | 5E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| 66 | Dysprosium-166 | W, all compounds | 6E+2 | 7E+2 | 3E-7 | 1E-9 | - | - |
| | | | LLI wall (8E+2) | - | - | - | 1E-5 | 1E-4 |
| 67 | Holmium-155 ² | W, all compounds | 4E+4 | 2E+5 | 6E-5 | 2E-7 | 6E-4 | 6E-3 |
| 67 | Holmium-157 ² | W, all compounds | 3E+5 | 1E+6 | 6E-4 | 2E-6 | 4E-3 | 4E-2 |
| 67 | Holmium-159 ² | W, all compounds | 2E+5 | 1E+6 | 4E-4 | 1E-6 | 3E-3 | 3E-2 |
| 67 | Holmium-161 | W, all compounds | 1E+5 | 4E+5 | 2E-4 | 6E-7 | 1E-3 | 1E-2 |
| 67 | Holmium-162m ² | W, all compounds | 5E+4 | 3E+5 | 1E-4 | 4E-7 | 7E-4 | 7E-3 |
| 67 | Holmium-162 ² | W, all compounds | 5E+5 | 2E+6 | 1E-3 | 3E-6 | - | - |
| | | | St wall (8E+5) | - | - | - | 1E-2 | 1E-1 |
| 67 | Holmium-164m ² | W, all compounds | 1E+5 | 3E+5 | 1E-4 | 4E-7 | 1E-3 | 1E-2 |
| 67 | Holmium-164 ² | W, all compounds | 2E+5 | 6E+5 | 3E-4 | 9E-7 | - | - |
| | | | St wall (2E+5) | - | - | - | 3E-3 | 3E-2 |
| 67 | Holmium-166m | W, all compounds | 6E+2 | 7E+0 | 3E-9 | 9E-12 | 9E-6 | 9E-5 |
| 67 | Holmium-166 | W, all compounds | 9E+2 | 2E+3 | 7E-7 | 2E-9 | - | - |
| | | | LLI wall (9E+2) | - | - | - | 1E-5 | 1E-4 |
| 67 | Holmium-167 | W, all compounds | 2E+4 | 6E+4 | 2E-5 | 8E-8 | 2E-4 | 2E-3 |
| 68 | Erbium-161 | W, all compounds | 2E+4 | 6E+4 | 3E-5 | 9E-8 | 2E-4 | 2E-3 |
| 68 | Erbium-165 | W, all compounds | 6E+4 | 2E+5 | 8E-5 | 3E-7 | 9E-4 | 9E-3 |
| 68 | Erbium-169 | W, all compounds | 3E+3 | 3E+3 | 1E-6 | 4E-9 | - | - |
| | | | LLI wall (4E+3) | - | - | - | 5E-5 | 5E-4 |
| 68 | Erbium-171 | W, all compounds | 4E+3 | 1E+4 | 4E-6 | 1E-8 | 5E-5 | 5E-4 |
| 68 | Erbium-172 | W, all compounds | 1E+3 | 1E+3 | 6E-7 | 2E-9 | - | - |
| | | | LLI wall (1E+3) | - | - | - | 2E-5 | 2E-4 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers | |
|------------|------------------------------|---|--|---|--------|--|--------------------------------|---|--|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) | |
| | | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | | |
| | ALI ($\mu\text{Ci/ml}$) | DAC ($\mu\text{Ci/ml}$) | | | | | | | |
| 69 | Thulium-162 ² | W, all compounds | 7E+4 | 3E+5 | 1E-4 | 4E-7 | - | - | |
| | | St wall (7E+4) | - | - | - | - | 1E-3 | 1E-2 | |
| 69 | Thulium-166 | W, all compounds | 4E+3 | 1E+4 | 6E-6 | 2E-8 | 6E-5 | 6E-4 | |
| 69 | Thulium-167 | W, all compounds | 2E+3 | 2E+3 | 8E-7 | 3E-9 | - | - | |
| | | LLI wall (2E+3) | - | - | - | - | 3E-5 | 3E-4 | |
| 69 | Thulium-170 | W, all compounds | 8E+2 | 2E+2 | 9E-8 | 3E-10 | - | - | |
| | | LLI wall (1E+3) | - | - | - | - | 1E-5 | 1E-4 | |
| 69 | Thulium-171 | W, all compounds | 1E+4 | 3E+2 | 1E-7 | - | - | - | |
| | | LLI wall (1E+4) | Bone surf (6E+2) | - | - | 8E-10 | 2E-4 | 2E-3 | |
| 69 | Thulium-172 | W, all compounds | 7E+2 | 1E+3 | 5E-7 | 2E-9 | - | - | |
| | | LLI wall (8E+2) | - | - | - | - | 1E-5 | 1E-4 | |
| 69 | Thulium-173 | W, all compounds | 4E+3 | 1E+4 | 5E-6 | 2E-8 | 6E-5 | 6E-4 | |
| 69 | Thulium-175 ² | W, all compounds | 7E+4 | 3E+5 | 1E-4 | 4E-7 | - | - | |
| | | St wall (9E+4) | - | - | - | - | 1E-3 | 1E-2 | |
| 70 | Ytterbium-162 ² | W, all compounds except those given for Y | 7E+4 | 3E+5 | 1E-4 | 4E-7 | 1E-3 | 1E-2 | |
| | | Y, oxides, hydroxides, and fluorides | - | 3E+5 | 1E-4 | 4E-7 | - | - | |
| 70 | Ytterbium-166 | W, see ¹⁶² Yb | 1E+3 | 2E+3 | 8E-7 | 3E-9 | 2E-5 | 2E-4 | |
| | | Y, see ¹⁶² Yb | - | 2E+3 | 8E-7 | 3E-9 | - | - | |
| 70 | Ytterbium-167 ² | W, see ¹⁶² Yb | 3E+5 | 8E+5 | 3E-4 | 1E-6 | 4E-3 | 4E-2 | |
| | | Y, see ¹⁶² Yb | - | 7E+5 | 3E-4 | 1E-6 | - | - | |
| 70 | Ytterbium-169 | W, see ¹⁶² Yb | 2E+3 | 8E+2 | 4E-7 | 1E-9 | 2E-5 | 2E-4 | |
| | | Y, see ¹⁶² Yb | - | 7E+2 | 3E-7 | 1E-9 | - | - | |
| 70 | Ytterbium-175 | W, see ¹⁶² Yb | 3E+3 | 4E+3 | 1E-6 | 5E-9 | - | - | |
| | | LLI wall (3E+3) | - | - | - | - | 4E-5 | 4E-4 | |
| | | Y, see ¹⁶² Yb | - | 3E+3 | 1E-6 | 5E-9 | - | - | |
| 70 | Ytterbium-177 ² | W, see ¹⁶² Yb | 2E+4 | 5E+4 | 2E-5 | 7E-8 | 2E-4 | 2E-3 | |
| | | Y, see ¹⁶² Yb | - | 5E+4 | 2E-5 | 6E-8 | - | - | |
| 70 | Ytterbium-178 ² | W, see ¹⁶² Yb | 1E+4 | 4E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 | |
| | | Y, see ¹⁶² Yb | - | 4E+4 | 2E-5 | 5E-8 | - | - | |
| 71 | Lutetium-169 | W, all compounds except those given for Y | 3E+3 | 4E+3 | 2E-6 | 6E-9 | 3E-5 | 3E-4 | |
| | | Y, oxides, hydroxides, and fluorides | - | 4E+3 | 2E-6 | 6E-9 | - | - | |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|----------------------------|------------------------------|--|---------------------|---------------------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 71 | Lutetium-170 | W, see ^{169}Lu | 1E+3 | 2E+3 | 9E-7 | 3E-9 | 2E-5 | 2E-4 |
| | | Y, see ^{169}Lu | - | 2E+3 | 8E-7 | 3E-9 | - | - |
| 71 | Lutetium-171 | W, see ^{169}Lu | 2E+3 | 2E+3 | 8E-7 | 3E-9 | 3E-5 | 3E-4 |
| | | Y, see ^{169}Lu | - | 2E+3 | 8E-7 | 3E-9 | - | - |
| 71 | Lutetium-172 | W, see ^{169}Lu | 1E+3 | 1E+3 | 5E-7 | 2E-9 | 1E-5 | 1E-4 |
| | | Y, see ^{169}Lu | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| 71 | Lutetium-173 | W, see ^{169}Lu | 5E+3 | 3E+2 | 1E-7 | - | 7E-5 | 7E-4 |
| | | Y, see ^{169}Lu | - | Bone surf (5E+2) | - | 6E-10 | - | - |
| 71 | Lutetium-174m | W, see ^{169}Lu | 2E+3 | 2E+2 | 1E-7 | - | - | - |
| | | Y, see ^{169}Lu | - | LLI wall (3E+3) | Bone surf (3E+2) | - | 5E-10 | 4E-5 |
| 71 | Lutetium-174 | W, see ^{169}Lu | 5E+3 | 1E+2 | 5E-8 | - | 7E-5 | 7E-4 |
| | | Y, see ^{169}Lu | - | Bone surf (2E+2) | - | 3E-10 | - | - |
| 71 | Lutetium-176m | W, see ^{169}Lu | 8E+3 | 3E+4 | 1E-5 | 3E-8 | 1E-4 | 1E-3 |
| | | Y, see ^{169}Lu | - | 2E+4 | 9E-6 | 3E-8 | - | - |
| 71 | Lutetium-176 | W, see ^{169}Lu | 7E+2 | 5E+0 | 2E-9 | - | 1E-5 | 1E-4 |
| | | Y, see ^{169}Lu | - | Bone surf (1E+1) | - | 2E-11 | - | - |
| 71 | Lutetium-177m | W, see ^{169}Lu | 7E+2 | 1E+2 | 5E-8 | - | 1E-5 | 1E-4 |
| | | Y, see ^{169}Lu | - | 8E+0 | 3E-9 | 1E-11 | - | - |
| 71 | Lutetium-177 | W, see ^{169}Lu | 2E+3 | 2E+3 | 9E-7 | 3E-9 | - | - |
| | | Y, see ^{169}Lu | - | LLI wall (3E+3) | - | - | 4E-5 | 4E-4 |
| 71 | Lutetium-178m ² | W, see ^{169}Lu | 5E+4 | 2E+5 | 8E-5 | 3E-7 | - | - |
| | | Y, see ^{169}Lu | - | St. wall (6E+4) | - | - | 8E-4 | 8E-3 |
| 71 | Lutetium-178 ² | W, see ^{169}Lu | 4E+4 | 1E+5 | 5E-5 | 2E-7 | - | - |
| | | Y, see ^{169}Lu | - | St. wall (4E+4) | - | - | 6E-4 | 6E-3 |
| 71 | Lutetium-179 | W, see ^{169}Lu | 6E+3 | 2E+4 | 8E-6 | 3E-8 | 9E-5 | 9E-4 |
| | | Y, see ^{169}Lu | - | 2E+4 | 6E-6 | 3E-8 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|--|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 72 | Hafnium-170 | D, all compounds except those given for W W, oxides, hydroxides, carbides, and nitrates | 3E+3 | 6E+3 | 2E-6 | 8E-9 | 4E-5 | 4E-4 |
| | | | - | 5E+3 | 2E-6 | 6E-9 | - | - |
| 72 | Hafnium-172 | D, see ^{170}Hf | 1E+3 | 9E+0 | 4E-9 | - | 2E-5 | 2E-4 |
| | | | - | Bone surf (2E+1) | - | 3E-11 | - | - |
| | | W, see ^{170}Hf | - | 4E+1 | 2E-8 | - | - | - |
| | | | - | Bone surf (6E+1) | - | 8E-11 | - | - |
| 72 | Hafnium-173 | D, see ^{170}Hf | 5E+3 | 1E+4 | 5E-6 | 2E-8 | 7E-5 | 7E-4 |
| | | W, see ^{170}Hf | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 72 | Hafnium-175 | D, see ^{170}Hf | 3E+3 | 9E+2 | 4E-7 | - | 4E-5 | 4E-4 |
| | | | - | Bone surf (1E+3) | - | 1E-9 | - | - |
| | | W, see ^{170}Hf | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| 72 | Hafnium-177m ² | D, see ^{170}Hf | 2E+4 | 6E+4 | 2E-5 | 8E-8 | 3E-4 | 3E-3 |
| | | W, see ^{170}Hf | - | 9E+4 | 4E-5 | 1E-7 | - | - |
| 72 | Hafnium-178m | D, see ^{170}Hf | 3E+2 | 1E+0 | 5E-10 | - | 3E-6 | 3E-5 |
| | | | - | Bone surf (2E+0) | - | 3E-12 | - | - |
| | | W, see ^{170}Hf | - | 5E+0 | 2E-9 | - | - | - |
| | | | - | Bone surf (9E+0) | - | 1E-11 | - | - |
| 72 | Hafnium-179m | D, see ^{170}Hf | 1E+3 | 3E+2 | 1E-7 | - | 1E-5 | 1E-4 |
| | | | - | Bone surf (6E+2) | - | 8E-10 | - | - |
| | | W, see ^{170}Hf | - | 6E+2 | 3E-7 | 8E-10 | - | - |
| 72 | Hafnium-180m | D, see ^{170}Hf | 7E+3 | 2E+4 | 9E-6 | 3E-8 | 1E-4 | 1E-3 |
| | | W, see ^{170}Hf | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 72 | Hafnium-181 | D, see ^{170}Hf | 1E+3 | 2E+2 | 7E-8 | - | 2E-5 | 2E-4 |
| | | | - | Bone surf (4E+2) | - | 6E-10 | - | - |
| | | W, see ^{170}Hf | - | 4E+2 | 2E-7 | 6E-10 | - | - |
| 72 | Hafnium-182m ² | D, see ^{170}Hf | 4E+4 | 9E+4 | 4E-5 | 1E-7 | 5E-4 | 5E-3 |
| | | W, see ^{170}Hf | - | 1E+5 | 6E-5 | 2E-7 | - | - |
| 72 | Hafnium-182 | D, see ^{170}Hf | 2E+2 | 8E-1 | 3E-10 | - | - | - |
| | | | Bone surf (4E+2) | Bone surf (2E+0) | - | 2E-12 | 5E-6 | 5E-5 |
| | | W, see ^{170}Hf | - | 3E+0 | 1E-9 | - | - | - |
| | | | - | Bone surf (7E+0) | - | 1E-11 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|----------------------------|---|--|------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 72 | Hafnium-183 ² | D, see ¹⁷⁰ Hf | 2E+4 | 5E+4 | 2E-5 | 6E-8 | 3E-4 | 3E-3 |
| | | W, see ¹⁷⁰ Hf | - | 6E+4 | 2E-5 | 8E-8 | - | - |
| 72 | Hafnium-184 | D, see ¹⁷⁰ Hf | 2E+3 | 8E+3 | 3E-6 | 1E-8 | 3E-5 | 3E-4 |
| | | W, see ¹⁷⁰ Hf | - | 6E+3 | 3E-6 | 9E-9 | - | - |
| 73 | Tantalum-172 ² | W, all compounds except those given for Y | 4E+4 | 1E+5 | 5E-5 | 2E-7 | 5E-4 | 5E-3 |
| | | Y, elemental Ta, oxides, hydroxides, halides, carbides, nitrates, and nitrides | - | 1E+5 | 4E-5 | 1E-7 | - | - |
| 73 | Tantalum-173 | W, see ¹⁷² Ta | 7E+3 | 2E+4 | 8E-6 | 3E-8 | 9E-5 | 9E-4 |
| | | Y, see ¹⁷² Ta | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| 73 | Tantalum-174 ² | W, see ¹⁷² Ta | 3E+4 | 1E+5 | 4E-5 | 1E-7 | 4E-4 | 4E-3 |
| | | Y, see ¹⁷² Ta | - | 9E+4 | 4E-5 | 1E-7 | - | - |
| 73 | Tantalum-175 | W, see ¹⁷² Ta | 6E+3 | 2E+4 | 7E-6 | 2E-8 | 8E-5 | 8E-4 |
| | | Y, see ¹⁷² Ta | - | 1E+4 | 6E-6 | 2E-8 | - | - |
| 73 | Tantalum-176 | W, see ¹⁷² Ta | 4E+3 | 1E+4 | 5E-6 | 2E-8 | 5E-5 | 5E-4 |
| | | Y, see ¹⁷² Ta | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 73 | Tantalum-177 | W, see ¹⁷² Ta | 1E+4 | 2E+4 | 8E-6 | 3E-8 | 2E-4 | 2E-3 |
| | | Y, see ¹⁷² Ta | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| 73 | Tantalum-178 | W, see ¹⁷² Ta | 2E+4 | 9E+4 | 4E-5 | 1E-7 | 2E-4 | 2E-3 |
| | | Y, see ¹⁷² Ta | - | 7E+4 | 3E-5 | 1E-7 | - | - |
| 73 | Tantalum-179 | W, see ¹⁷² Ta | 2E+4 | 5E+3 | 2E-6 | 8E-9 | 3E-4 | 3E-3 |
| | | Y, see ¹⁷² Ta | - | 9E+2 | 4E-7 | 1E-9 | - | - |
| 73 | Tantalum-180m | W, see ¹⁷² Ta | 2E+4 | 7E+4 | 3E-5 | 9E-8 | 3E-4 | 3E-3 |
| | | Y, see ¹⁷² Ta | - | 6E+4 | 2E-5 | 8E-8 | - | - |
| 73 | Tantalum-180 | W, see ¹⁷² Ta | 1E+3 | 4E+2 | 2E-7 | 6E-10 | 2E-5 | 2E-4 |
| | | Y, see ¹⁷² Ta | - | 2E+1 | 1E-8 | 3E-11 | - | - |
| 73 | Tantalum-182m ² | W, see ¹⁷² Ta | 2E+5 | 5E+5 | 2E-4 | 8E-7 | - | - |
| | | St wall (2E+5) | - | - | - | - | 3E-3 | 3E-2 |
| 73 | Tantalum-182 | Y, see ¹⁷² Ta | - | 4E+5 | 2E-4 | 6E-7 | - | - |
| | | W, see ¹⁷² Ta | 8E+2 | 3E+2 | 1E-7 | 5E-10 | 1E-5 | 1E-4 |
| 73 | Tantalum-183 | Y, see ¹⁷² Ta | - | 1E+2 | 6E-8 | 2E-10 | - | - |
| | | W, see ¹⁷² Ta | 9E+2 | 1E+3 | 5E-7 | 2E-9 | - | - |
| 73 | Tantalum-184 | LLI wall (1E+3) | - | - | - | - | 2E-5 | 2E-4 |
| | | Y, see ¹⁷² Ta | - | 1E+3 | 4E-7 | 1E-9 | - | - |
| 73 | Tantalum-184 | W, see ¹⁷² Ta | 2E+3 | 5E+3 | 2E-6 | 8E-9 | 3E-5 | 3E-4 |
| | | Y, see ¹⁷² Ta | - | 5E+3 | 2E-6 | 7E-9 | - | - |
| 73 | Tantalum-185 ² | W, see ¹⁷² Ta | 3E+4 | 7E+4 | 3E-5 | 1E-7 | 4E-4 | 4E-3 |
| | | Y, see ¹⁷² Ta | - | 6E+4 | 3E-5 | 9E-8 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers | |
|------------|---------------------------|---|--|-------------------|--------|--|--------------------------------|---|--|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) | |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | | |
| 73 | Tantalum-186 ² | W, see ¹⁷² Ta | 5E+4 | 2E+5 | 1E-4 | 3E-7 | - | - | |
| | | | St wall (7E+4) | - | - | - | 1E-3 | 1E-2 | |
| | | Y, see ¹⁷² Ta | - | 2E+5 | 9E-5 | 3E-7 | - | - | |
| 74 | Tungsten-176 | D, all compounds | 1E+4 | 5E+4 | 2E-5 | 7E-8 | 1E-4 | 1E-3 | |
| 74 | Tungsten-177 | D, all compounds | 2E+4 | 9E+4 | 4E-5 | 1E-7 | 3E-4 | 3E-3 | |
| 74 | Tungsten-178 | D, all compounds | 5E+3 | 2E+4 | 8E-6 | 3E-8 | 7E-5 | 7E-4 | |
| 74 | Tungsten-179 ² | D, all compounds | 5E+5 | 2E+6 | 7E-4 | 2E-6 | 7E-3 | 7E-2 | |
| 74 | Tungsten-181 | D, all compounds | 2E+4 | 3E+4 | 1E-5 | 5E-8 | 2E-4 | 2E-3 | |
| 74 | Tungsten-185 | D, all compounds | 2E+3 | 7E+3 | 3E-6 | 9E-9 | - | - | |
| | | | LLI wall (3E+3) | - | - | - | 4E-5 | 4E-4 | |
| 74 | Tungsten-187 | D, all compounds | 2E+3 | 9E+3 | 4E-6 | 1E-8 | 3E-5 | 3E-4 | |
| 74 | Tungsten-188 | D, all compounds | 4E+2 | 1E+3 | 5E-7 | 2E-9 | - | - | |
| | | | LLI wall (5E+2) | - | - | - | 7E-6 | 7E-5 | |
| 75 | Rhenium-177 ² | D, all compounds except those given for W | 9E+4 | 3E+5 | 1E-4 | 4E-7 | - | - | |
| | | | St wall (1E+5) | - | - | - | 2E-3 | 2E-2 | |
| | | W, oxides, hydroxides, and nitrates | - | 4E+5 | 1E-4 | 5E-7 | - | - | |
| 75 | Rhenium-178 ² | D, see ¹⁷⁷ Re | 7E+4 | 3E+5 | 1E-4 | 4E-7 | - | - | |
| | | | St wall (1E+5) | - | - | - | 1E-3 | 1E-2 | |
| | | W, see ¹⁷⁷ Re | - | 3E+5 | 1E-4 | 4E-7 | - | - | |
| 75 | Rhenium-181 | D, see ¹⁷⁷ Re | 5E+3 | 9E+3 | 4E-6 | 1E-8 | 7E-5 | 7E-4 | |
| | | W, see ¹⁷⁷ Re | - | 9E+3 | 4E-6 | 1E-8 | - | - | |
| 75 | Rhenium-182 (12.7 h) | D, see ¹⁷⁷ Re | 7E+3 | 1E+4 | 5E-6 | 2E-8 | 9E-5 | 9E-4 | |
| | | W, see ¹⁷⁷ Re | - | 2E+4 | 6E-6 | 2E-8 | - | - | |
| 75 | Rhenium-182 (64.0 h) | D, see ¹⁷⁷ Re | 1E+3 | 2E+3 | 1E-6 | 3E-9 | 2E-5 | 2E-4 | |
| | | W, see ¹⁷⁷ Re | - | 2E+3 | 9E-7 | 3E-9 | - | - | |
| 75 | Rhenium-184m | D, see ¹⁷⁷ Re | 2E+3 | 3E+3 | 1E-6 | 4E-9 | 3E-5 | 3E-4 | |
| | | W, see ¹⁷⁷ Re | - | 4E+2 | 2E-7 | 6E-10 | - | - | |
| 75 | Rhenium-184 | D, see ¹⁷⁷ Re | 2E+3 | 4E+3 | 1E-6 | 5E-9 | 3E-5 | 3E-4 | |
| | | W, see ¹⁷⁷ Re | - | 1E+3 | 6E-7 | 2E-9 | - | - | |
| 75 | Rhenium-186m | D, see ¹⁷⁷ Re | 1E+3 | 2E+3 | 7E-7 | - | - | - | |
| | | | St wall (2E+3) | St wall (2E+3) | - | 3E-9 | 2E-5 | 2E-4 | |
| | | W, see ¹⁷⁷ Re | - | 2E+2 | 6E-8 | 2E-10 | - | - | |
| 75 | Rhenium-186 | D, see ¹⁷⁷ Re | 2E+3 | 3E+3 | 1E-6 | 4E-9 | 3E-5 | 3E-4 | |
| | | W, see ¹⁷⁷ Re | - | 2E+3 | 7E-7 | 2E-9 | - | - | |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|---|--|--------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 75 | Rhenium-187 | D, see ^{177}Re | 6E+5 | 8E+5 | 4E-4 | - | 8E-3 | 8E-2 |
| | | W, see ^{177}Re | - | St wall (9E+5) | - | 1E-6 | - | - |
| 75 | Rhenium-188m ² | D, see ^{177}Re | 8E+4 | 1E+5 | 6E-5 | 2E-7 | 1E-3 | 1E-2 |
| | | W, see ^{177}Re | - | 1E+5 | 6E-5 | 2E-7 | - | - |
| 75 | Rhenium-188 | D, see ^{177}Re | 2E+3 | 3E+3 | 1E-6 | 4E-9 | 2E-5 | 2E-4 |
| | | W, see ^{177}Re | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| 75 | Rhenium-189 | D, see ^{177}Re | 3E+3 | 5E+3 | 2E-6 | 7E-9 | 4E-5 | 4E-4 |
| | | W, see ^{177}Re | - | 4E+3 | 2E-6 | 6E-9 | - | - |
| 76 | Osmium-180 ² | D, all compounds except those given for W and Y | 1E+5 | 4E+5 | 2E-4 | 5E-7 | 1E-3 | 1E-2 |
| | | W, halides and nitrates | - | 5E+5 | 2E-4 | 7E-7 | - | - |
| | | Y, oxides and hydroxides | - | 5E+5 | 2E-4 | 6E-7 | - | - |
| 76 | Osmium-181 ² | D, see ^{180}Os | 1E+4 | 4E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| | | W, see ^{180}Os | - | 5E+4 | 2E-5 | 6E-8 | - | - |
| | | Y, see ^{180}Os | - | 4E+4 | 2E-5 | 6E-8 | - | - |
| 76 | Osmium-182 | D, see ^{180}Os | 2E+3 | 6E+3 | 2E-6 | 8E-9 | 3E-5 | 3E-4 |
| | | W, see ^{180}Os | - | 4E+3 | 2E-6 | 6E-9 | - | - |
| | | Y, see ^{180}Os | - | 4E+3 | 2E-6 | 6E-9 | - | - |
| 76 | Osmium-185 | D, see ^{180}Os | 2E+3 | 5E+2 | 2E-7 | 7E-10 | 3E-5 | 3E-4 |
| | | W, see ^{180}Os | - | 8E+2 | 3E-7 | 1E-9 | - | - |
| | | Y, see ^{180}Os | - | 8E+2 | 3E-7 | 1E-9 | - | - |
| 76 | Osmium-189m | D, see ^{180}Os | 8E+4 | 2E+5 | 1E-4 | 3E-7 | 1E-3 | 1E-2 |
| | | W, see ^{180}Os | - | 2E+5 | 9E-5 | 3E-7 | - | - |
| | | Y, see ^{180}Os | - | 2E+5 | 7E-5 | 2E-7 | - | - |
| 76 | Osmium-191m | D, see ^{180}Os | 1E+4 | 3E+4 | 1E-5 | 4E-8 | 2E-4 | 2E-3 |
| | | W, see ^{180}Os | - | 2E+4 | 8E-6 | 3E-8 | - | - |
| | | Y, see ^{180}Os | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| 76 | Osmium-191 | D, see ^{180}Os | 2E+3 | 2E+3 | 9E-7 | 3E-9 | - | - |
| | | W, see ^{180}Os | - | LLI wall (3E+3) | - | - | 3E-5 | 3E-4 |
| | | Y, see ^{180}Os | - | 2E+3 | 7E-7 | 2E-9 | - | - |
| 76 | Osmium-193 | D, see ^{180}Os | 2E+3 | 5E+3 | 2E-6 | 6E-9 | - | - |
| | | W, see ^{180}Os | - | LLI wall (2E+3) | - | - | 2E-5 | 2E-4 |
| | | Y, see ^{180}Os | - | 3E+3 | 1E-6 | 4E-9 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|---|--|---|--------|--|------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) | | DAC ($\mu\text{Ci/ml}$) | Air ($\mu\text{Ci/ml}$) | |
| 76 | Osmium-194 | D, see ^{180}Os | 4E+2 | 4E+1 | 2E-8 | 6E-11 | - | - |
| | | LLI wall (6E+2) | - | - | - | - | 8E-6 | 8E-5 |
| | | W, see ^{180}Os | - | 6E+1 | 2E-8 | 8E-11 | - | - |
| | | Y, see ^{180}Os | - | 8E+0 | 3E-9 | 1E-11 | - | - |
| 77 | Iridium-182 ² | D, all compounds except those given for W and Y | 4E+4 | 1E+5 | 6E-5 | 2E-7 | - | - |
| | | St wall (4E+4) | - | - | - | - | 6E-4 | 6E-3 |
| | | W, halides, nitrates, and metallic iridium | - | 2E+5 | 6E-5 | 2E-7 | - | - |
| | | Y, oxides and hydroxides | - | 1E+5 | 5E-5 | 2E-7 | - | - |
| 77 | Iridium-184 | D, see ^{182}Ir | 8E+3 | 2E+4 | 1E-5 | 3E-8 | 1E-4 | 1E-3 |
| | | W, see ^{182}Ir | - | 3E+4 | 1E-5 | 5E-8 | - | - |
| | | Y, see ^{182}Ir | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 77 | Iridium-185 | D, see ^{182}Ir | 5E+3 | 1E+4 | 5E-6 | 2E-8 | 7E-5 | 7E-4 |
| | | W, see ^{182}Ir | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| | | Y, see ^{182}Ir | - | 1E+4 | 4E-6 | 1E-8 | - | - |
| 77 | Iridium-186 | D, see ^{182}Ir | 2E+3 | 8E+3 | 3E-6 | 1E-8 | 3E-5 | 3E-4 |
| | | W, see ^{182}Ir | - | 6E+3 | 3E-6 | 9E-9 | - | - |
| | | Y, see ^{182}Ir | - | 6E+3 | 2E-6 | 8E-9 | - | - |
| 77 | Iridium-187 | D, see ^{182}Ir | 1E+4 | 3E+4 | 1E-5 | 5E-8 | 1E-4 | 1E-3 |
| | | W, see ^{182}Ir | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| | | Y, see ^{182}Ir | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 77 | Iridium-188 | D, see ^{182}Ir | 2E+3 | 5E+3 | 2E-6 | 6E-9 | 3E-5 | 3E-4 |
| | | W, see ^{182}Ir | - | 4E+3 | 1E-6 | 5E-9 | - | - |
| | | Y, see ^{182}Ir | - | 3E+3 | 1E-6 | 5E-9 | - | - |
| 77 | Iridium-189 | D, see ^{182}Ir | 5E+3 | 5E+3 | 2E-6 | 7E-9 | - | - |
| | | LLI wall (5E+3) | - | - | - | - | 7E-5 | 7E-4 |
| | | W, see ^{182}Ir | - | 4E+3 | 2E-6 | 5E-9 | - | - |
| | | Y, see ^{182}Ir | - | 4E+3 | 1E-6 | 5E-9 | - | - |
| 77 | Iridium-190m ² | D, see ^{182}Ir | 2E+5 | 2E+5 | 8E-5 | 3E-7 | 2E-3 | 2E-2 |
| | | W, see ^{182}Ir | - | 2E+5 | 9E-5 | 3E-7 | - | - |
| | | Y, see ^{182}Ir | - | 2E+5 | 8E-5 | 3E-7 | - | - |
| 77 | Iridium-190 | D, see ^{182}Ir | 1E+3 | 9E+2 | 4E-7 | 1E-9 | 1E-5 | 1E-4 |
| | | W, see ^{182}Ir | - | 1E+3 | 4E-7 | 1E-9 | - | - |
| | | Y, see ^{182}Ir | - | 9E+2 | 4E-7 | 1E-9 | - | - |
| 77 | Iridium-192m | D, see ^{182}Ir | 3E+3 | 9E+1 | 4E-8 | 1E-10 | 4E-5 | 4E-4 |
| | | W, see ^{182}Ir | - | 2E+2 | 9E-8 | 3E-10 | - | - |
| | | Y, see ^{182}Ir | - | 2E+1 | 6E-9 | 2E-11 | - | - |
| 77 | Iridium-192 | D, see ^{182}Ir | 9E+2 | 3E+2 | 1E-7 | 4E-10 | 1E-5 | 1E-4 |
| | | W, see ^{182}Ir | - | 4E+2 | 2E-7 | 6E-10 | - | - |
| | | Y, see ^{182}Ir | - | 2E+2 | 9E-8 | 3E-10 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|----------------------------|---|--|------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 77 | Iridium-194m | D, see ^{182}Ir | 6E+2 | 9E+1 | 4E-8 | 1E-10 | 9E-6 | 9E-5 |
| | | W, see ^{182}Ir | - | 2E+2 | 7E-8 | 2E-10 | - | - |
| | | Y, see ^{182}Ir | - | 1E+2 | 4E-8 | 1E-10 | - | - |
| 77 | Iridium-194 | D, see ^{182}Ir | 1E+3 | 3E+3 | 1E-6 | 4E-9 | 1E-5 | 1E-4 |
| | | W, see ^{182}Ir | - | 2E+3 | 9E-7 | 3E-9 | - | - |
| | | Y, see ^{182}Ir | - | 2E+3 | 8E-7 | 3E-9 | - | - |
| 77 | Iridium-195m | D, see ^{182}Ir | 8E+3 | 2E+4 | 1E-5 | 3E-8 | 1E-4 | 1E-3 |
| | | W, see ^{182}Ir | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| | | Y, see ^{182}Ir | - | 2E+4 | 9E-6 | 3E-8 | - | - |
| 77 | Iridium-195 | D, see ^{182}Ir | 1E+4 | 4E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| | | W, see ^{182}Ir | - | 5E+4 | 2E-5 | 7E-8 | - | - |
| | | Y, see ^{182}Ir | - | 4E+4 | 2E-5 | 6E-8 | - | - |
| 78 | Platinum-186 | D, all compounds | 1E+4 | 4E+4 | 2E-5 | 5E-8 | 2E-4 | 2E-3 |
| 78 | Platinum-188 | D, all compounds | 2E+3 | 2E+3 | 7E-7 | 2E-9 | 2E-5 | 2E-4 |
| 78 | Platinum-189 | D, all compounds | 1E+4 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 |
| 78 | Platinum-191 | D, all compounds | 4E+3 | 8E+3 | 4E-6 | 1E-8 | 5E-5 | 5E-4 |
| 78 | Platinum-193m | D, all compounds | 3E+3 | 6E+3 | 3E-6 | 8E-9 | - | - |
| | | LLI wall (3E+4) | - | - | - | - | 4E-5 | 4E-4 |
| 78 | Platinum-193 | D, all compounds | 4E+4 | 2E+4 | 1E-5 | 3E-8 | - | - |
| | | LLI wall (5E+4) | - | - | - | - | 6E-4 | 6E-3 |
| 78 | Platinum-195m | D, all compounds | 2E+3 | 4E+3 | 2E-6 | 6E-9 | - | - |
| | | LLI wall (2E+3) | - | - | - | - | 3E-5 | 3E-4 |
| 78 | Platinum-197m ² | D, all compounds | 2E+4 | 4E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| 78 | Platinum-197 | D, all compounds | 3E+3 | 1E+4 | 4E-6 | 1E-8 | 4E-5 | 4E-4 |
| 78 | Platinum-199 ² | D, all compounds | 5E+4 | 1E+5 | 6E-5 | 2E-7 | 7E-4 | 7E-3 |
| 78 | Platinum-200 | D, all compounds | 1E+3 | 3E+3 | 1E-6 | 5E-9 | 2E-5 | 2E-4 |
| 79 | Gold-193 | D, all compounds except those given for W and Y | 9E+3 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 |
| | | W, halides and nitrates | - | 2E+4 | 9E-6 | 3E-8 | - | - |
| | | Y, oxides and hydroxides | - | 2E+4 | 8E-6 | 3E-8 | - | - |
| 79 | Gold-194 | D, see ^{193}Au | 3E+3 | 8E+3 | 3E-6 | 1E-8 | 4E-5 | 4E-4 |
| | | W, see ^{193}Au | - | 5E+3 | 2E-6 | 8E-9 | - | - |
| | | Y, see ^{193}Au | - | 5E+3 | 2E-6 | 7E-9 | - | - |
| 79 | Gold-195 | D, see ^{193}Au | 5E+3 | 1E+4 | 5E-6 | 2E-8 | 7E-5 | 7E-4 |
| | | W, see ^{193}Au | - | 1E+3 | 6E-7 | 2E-9 | - | - |
| | | Y, see ^{193}Au | - | 4E+2 | 2E-7 | 6E-10 | - | - |
| 79 | Gold-198m | D, see ^{193}Au | 1E+3 | 3E+3 | 1E-6 | 4E-9 | 1E-5 | 1E-4 |
| | | W, see ^{193}Au | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| | | Y, see ^{193}Au | - | 1E+3 | 5E-7 | 2E-9 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|-----------------------|--|--|---------------------------|------------------------------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | | | | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | |
| 79 | Gold-198 | D, see ^{193}Au | 1E+3 | 4E+3 | 2E-6 | 5E-9 | 2E-5 | 2E-4 |
| | | W, see ^{193}Au | - | 2E+3 | 8E-7 | 3E-9 | - | - |
| | | Y, see ^{193}Au | - | 2E+3 | 7E-7 | 2E-9 | - | - |
| 79 | Gold-199 | D, see ^{193}Au | 3E+3 | 9E+3 | 4E-6 | 1E-8 | - | - |
| | | | LLI wall (3E+3) | - | - | - | 4E-5 | 4E-4 |
| | | W, see ^{193}Au | - | 4E+3 | 2E-6 | 6E-9 | - | - |
| 79 | Gold-200m | Y, see ^{193}Au | - | 4E+3 | 2E-6 | 5E-9 | - | - |
| | | D, see ^{193}Au | 1E+3 | 4E+3 | 1E-6 | 5E-9 | 2E-5 | 2E-4 |
| | | W, see ^{193}Au | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| 79 | Gold-200 ² | Y, see ^{193}Au | - | 2E+4 | 1E-6 | 3E-9 | - | - |
| | | D, see ^{193}Au | 3E+4 | 6E+4 | 3E-5 | 9E-8 | 4E-4 | 4E-3 |
| | | W, see ^{193}Au | - | 8E+4 | 3E-5 | 1E-7 | - | - |
| 79 | Gold-201 ² | Y, see ^{193}Au | - | 7E+4 | 3E-5 | 1E-7 | - | - |
| | | D, see ^{193}Au | 7E+4 | 2E+5 | 9E-5 | 3E-7 | - | - |
| | | | St wall (9E+4) | - | - | - | 1E-3 | 1E-2 |
| 80 | Mercury-193m | W, see ^{193}Au | - | 2E+5 | 1E-4 | 3E-7 | - | - |
| | | Y, see ^{193}Au | - | 2E+5 | 9E-5 | 3E-7 | - | - |
| | | Vapor | - | 8E+3 | 4E-6 | 1E-8 | - | - |
| 80 | Mercury-193 | Organic D | 4E+3 | 1E+4 | 5E-6 | 2E-8 | 6E-5 | 6E-4 |
| | | D, sulfates | 3E+3 | 9E+3 | 4E-6 | 1E-8 | 4E-5 | 4E-4 |
| | | W, oxides, hydroxides, halides, nitrates, and sulfides | - | 8E+3 | 3E-6 | 1E-8 | - | - |
| | | Vapor | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 80 | Mercury-193 | Organic D | 2E+4 | 6E+4 | 3E-5 | 9E-8 | 3E-4 | 3E-3 |
| | | D, see $^{193\text{m}}\text{Hg}$ | 2E+4 | 4E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| | | W, see $^{193\text{m}}\text{Hg}$ | - | 4E+4 | 2E-5 | 6E-8 | - | - |
| | | Vapor | - | 3E+1 | 1E-8 | 4E-11 | - | - |
| 80 | Mercury-194 | Organic D | 2E+1 | 3E+1 | 1E-8 | 4E-11 | 2E-7 | 2E-6 |
| | | D, see $^{193\text{m}}\text{Hg}$ | 8E+2 | 4E+1 | 2E-8 | 6E-11 | 1E-5 | 1E-4 |
| | | W, see $^{193\text{m}}\text{Hg}$ | - | 1E+2 | 5E-8 | 2E-10 | - | - |
| | | Vapor | - | 4E+3 | 2E-6 | 6E-9 | - | - |
| 80 | Mercury-195m | Organic D | 3E+3 | 6E+3 | 3E-6 | 8E-9 | 4E-5 | 4E-4 |
| | | D, see $^{193\text{m}}\text{Hg}$ | 2E+3 | 5E+3 | 2E-6 | 7E-9 | 3E-5 | 3E-4 |
| | | W, see $^{193\text{m}}\text{Hg}$ | - | 4E+3 | 2E-6 | 5E-9 | - | - |
| | | Vapor | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 80 | Mercury-195 | Organic D | 2E+4 | 5E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| | | D, see $^{193\text{m}}\text{Hg}$ | 1E+4 | 4E+4 | 1E-5 | 5E-8 | 2E-4 | 2E-3 |
| | | W, see $^{193\text{m}}\text{Hg}$ | - | 3E+4 | 1E-5 | 5E-8 | - | - |
| | | Vapor | - | 5E+3 | 2E-6 | 7E-9 | - | - |
| 80 | Mercury-197m | Organic D | 4E+3 | 9E+3 | 4E-6 | 1E-8 | 5E-5 | 5E-4 |
| | | D, see $^{193\text{m}}\text{Hg}$ | 3E+3 | 7E+3 | 3E-6 | 1E-8 | 4E-5 | 4E-4 |
| | | W, see $^{193\text{m}}\text{Hg}$ | - | 5E+3 | 2E-6 | 7E-9 | - | - |
| | | Vapor | - | 5E+3 | 2E-6 | 7E-9 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers | |
|------------|----------------------------|---------------------------|--|---------------------------|------------------------------|--|--------------------------------|---|--|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) | |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | | |
| | | | | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | |
| 80 | Mercury-197 | Vapor | - | 8E+3 | 4E-6 | 1E-8 | - | - | |
| | | Organic D | 7E+3 | 1E+4 | 6E-6 | 2E-8 | 9E-5 | 9E-4 | |
| | | D, see ^{193m} Hg | 6E+3 | 1E+4 | 5E-6 | 2E-8 | 8E-5 | 8E-4 | |
| | | W, see ^{193m} Hg | - | 9E+3 | 4E-6 | 1E-8 | - | - | |
| 80 | Mercury-199m ² | Vapor | - | 8E+4 | 3E-5 | 1E-7 | - | - | |
| | | Organic D | 6E+4 | 2E+5 | 7E-5 | 2E-7 | - | - | |
| | | St wall (1E+5) | - | - | - | - | 1E-3 | 1E-2 | |
| | | D, see ^{193m} Hg | 6E+4 | 1E+5 | 6E-5 | 2E-7 | 8E-4 | 8E-3 | |
| | | W, see ^{193m} Hg | - | 2E+5 | 7E-5 | 2E-7 | - | - | |
| 80 | Mercury-203 | Vapor | - | 8E+2 | 4E-7 | 1E-9 | - | - | |
| | | Organic D | 5E+2 | 8E+2 | 3E-7 | 1E-9 | 7E-6 | 7E-5 | |
| | | D, see ^{193m} Hg | 2E+3 | 1E+3 | 5E-7 | 2E-9 | 3E-5 | 3E-4 | |
| | | W, see ^{193m} Hg | - | 1E+3 | 5E-7 | 2E-9 | - | - | |
| 81 | Thallium-194m ² | D, all compounds | 5E+4 | 2E+5 | 6E-5 | 2E-7 | - | - | |
| | | St wall (7E+4) | - | - | - | - | 1E-3 | 1E-2 | |
| 81 | Thallium-194 ² | D, all compounds | 3E+5 | 6E+5 | 2E-4 | 8E-7 | - | - | |
| | | St wall (3E+5) | - | - | - | - | 4E-3 | 4E-2 | |
| 81 | Thallium-195 ² | D, all compounds | 6E+4 | 1E+5 | 5E-5 | 2E-7 | 9E-4 | 9E-3 | |
| 81 | Thallium-197 | D, all compounds | 7E+4 | 1E+5 | 5E-5 | 2E-7 | 1E-3 | 1E-2 | |
| 81 | Thallium-198m ² | D, all compounds | 3E+4 | 5E+4 | 2E-5 | 8E-8 | 4E-4 | 4E-3 | |
| 81 | Thallium-198 | D, all compounds | 2E+4 | 3E+4 | 1E-5 | 5E-8 | 3E-4 | 3E-3 | |
| 81 | Thallium-199 | D, all compounds | 6E+4 | 8E+4 | 4E-5 | 1E-7 | 9E-4 | 9E-3 | |
| 81 | Thallium-200 | D, all compounds | 8E+3 | 1E+4 | 5E-6 | 2E-8 | 1E-4 | 1E-3 | |
| 81 | Thallium-201 | D, all compounds | 2E+4 | 2E+4 | 9E-6 | 3E-8 | 2E-4 | 2E-3 | |
| 81 | Thallium-202 | D, all compounds | 4E+3 | 5E+3 | 2E-6 | 7E-9 | 5E-5 | 5E-4 | |
| 81 | Thallium-204 | D, all compounds | 2E+3 | 2E+3 | 9E-7 | 3E-9 | 2E-5 | 2E-4 | |
| 82 | Lead-195m ² | D, all compounds | 6E+4 | 2E+5 | 8E-5 | 3E-7 | 8E-4 | 8E-3 | |
| 82 | Lead-198 | D, all compounds | 3E+4 | 6E+4 | 3E-5 | 9E-8 | 4E-4 | 4E-3 | |
| 82 | Lead-199 ² | D, all compounds | 2E+4 | 7E+4 | 3E-5 | 1E-7 | 3E-4 | 3E-3 | |
| 82 | Lead-200 | D, all compounds | 3E+3 | 6E+3 | 3E-6 | 9E-9 | 4E-5 | 4E-4 | |
| 82 | Lead-201 | D, all compounds | 7E+3 | 2E+4 | 8E-6 | 3E-8 | 1E-4 | 1E-3 | |
| 82 | Lead-202m | D, all compounds | 9E+3 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 | |
| 82 | Lead-202 | D, all compounds | 1E+2 | 5E+1 | 2E-8 | 7E-11 | 2E-6 | 2E-5 | |
| 82 | Lead-203 | D, all compounds | 5E+3 | 9E+3 | 4E-6 | 1E-8 | 7E-5 | 7E-4 | |
| 82 | Lead-205 | D, all compounds | 4E+3 | 1E+3 | 6E-7 | 2E-9 | 5E-5 | 5E-4 | |
| 82 | Lead-209 | D, all compounds | 2E+4 | 6E+4 | 2E-5 | 8E-8 | 3E-4 | 3E-3 | |
| 82 | Lead-210 | D, all compounds | 6E-1 | 2E-1 | 1E-10 | - | - | - | |
| | | Bone surf (1E+0) | Bone surf (4E-1) | - | 6E-13 | 1E-8 | 1E-7 | | |
| 82 | Lead-211 ² | D, all compounds | 1E+4 | 6E+2 | 3E-7 | 9E-10 | 2E-4 | 2E-3 | |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers | |
|------------|---------------------------|---|--|-------------------|--------|--|--------------------------------|---|--|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) | |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | | |
| 82 | Lead-212 | D, all compounds | 8E+1 | 3E+1 | 1E-8 | 5E-11 | - | - | |
| | | Bone surf (1E+2) | - | - | - | - | 2E-6 | 2E-5 | |
| 82 | Lead-214 ² | D, all compounds | 9E+3 | 8E+2 | 3E-7 | 1E-9 | 1E-4 | 1E-3 | |
| 83 | Bismuth-200 ² | D, nitrates | 3E+4 | 8E+4 | 4E-5 | 1E-7 | 4E-4 | 4E-3 | |
| | | W, all other compounds | - | 1E+5 | 4E-5 | 1E-7 | - | - | |
| 83 | Bismuth-201 ² | D, see ²⁰⁰ Bi | 1E+4 | 3E+4 | 1E-5 | 4E-8 | 2E-4 | 2E-3 | |
| | | W, see ²⁰⁰ Bi | - | 4E+4 | 2E-5 | 5E-8 | - | - | |
| 83 | Bismuth-202 ² | D, see ²⁰⁰ Bi | 1E+4 | 4E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 | |
| | | W, see ²⁰⁰ Bi | - | 8E+4 | 3E-5 | 1E-7 | - | - | |
| 83 | Bismuth-203 | D, see ²⁰⁰ Bi | 2E+3 | 7E+3 | 3E-6 | 9E-9 | 3E-5 | 3E-4 | |
| | | W, see ²⁰⁰ Bi | - | 6E+3 | 3E-6 | 9E-9 | - | - | |
| 83 | Bismuth-205 | D, see ²⁰⁰ Bi | 1E+3 | 3E+3 | 1E-6 | 3E-9 | 2E-5 | 2E-4 | |
| | | W, see ²⁰⁰ Bi | - | 1E+3 | 5E-7 | 2E-9 | - | - | |
| 83 | Bismuth-206 | D, see ²⁰⁰ Bi | 6E+2 | 1E+3 | 6E-7 | 2E-9 | 9E-6 | 9E-5 | |
| | | W, see ²⁰⁰ Bi | - | 9E+2 | 4E-7 | 1E-9 | - | - | |
| 83 | Bismuth-207 | D, see ²⁰⁰ Bi | 1E+3 | 2E+3 | 7E-7 | 2E-9 | 1E-5 | 1E-4 | |
| | | W, see ²⁰⁰ Bi | - | 4E+2 | 1E-7 | 5E-10 | - | - | |
| 83 | Bismuth-210m | D, see ²⁰⁰ Bi | 4E+1 | 5E+0 | 2E-9 | - | - | - | |
| | | Kidneys (6E+1) | - | Kidneys (6E+0) | - | 9E-12 | 8E-7 | 8E-6 | |
| | | W, see ²⁰⁰ Bi | - | 7E-1 | 3E-10 | 9E-13 | - | - | |
| 83 | Bismuth-210 | D, see ²⁰⁰ Bi | 8E+2 | 2E+2 | 1E-7 | - | 1E-5 | 1E-4 | |
| | | Kidneys (4E+2) | - | - | - | 5E-10 | - | - | |
| | | W, see ²⁰⁰ Bi | - | 3E+1 | 1E-8 | 4E-11 | - | - | |
| 83 | Bismuth-212 ² | D, see ²⁰⁰ Bi | 5E+3 | 2E+2 | 1E-7 | 3E-10 | 7E-5 | 7E-4 | |
| | | W, see ²⁰⁰ Bi | - | 3E+2 | 1E-7 | 4E-10 | - | - | |
| 83 | Bismuth-213 ² | D, see ²⁰⁰ Bi | 7E+3 | 3E+2 | 1E-7 | 4E-10 | 1E-4 | 1E-3 | |
| | | W, see ²⁰⁰ Bi | - | 4E+2 | 1E-7 | 5E-10 | - | - | |
| 83 | Bismuth-214 ² | D, see ²⁰⁰ Bi | 2E+4 | 8E+2 | 3E-7 | 1E-9 | - | - | |
| | | St wall (2E+4) | - | - | - | - | 3E-4 | 3E-3 | |
| | | W, see ²⁰⁰ Bi | - | 9E-2 | 4E-7 | 1E-9 | - | - | |
| 84 | Polonium-203 ² | D, all compounds except those given for W | 3E+4 | 6E+4 | 3E-5 | 9E-8 | 3E-4 | 3E-3 | |
| | | W, oxides, hydroxides, and nitrates | - | 9E+4 | 4E-5 | 1E-7 | - | - | |
| 84 | Polonium-205 ² | D, see ²⁰³ Po | 2E+4 | 4E+4 | 2E-5 | 5E-8 | 3E-4 | 3E-3 | |
| | | W, see ²⁰³ Po | - | 7E+4 | 3E-5 | 1E-7 | - | - | |
| 84 | Polonium-207 | D, see ²⁰³ Po | 8E+3 | 3E+4 | 1E-5 | 3E-8 | 1E-4 | 1E-3 | |
| | | W, see ²⁰³ Po | - | 3E+4 | 1E-5 | 4E-8 | - | - | |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|------------------------------|--|---|---------------------------------------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 84 | Polonium-210 | D, see ^{203}Po | 3E+0 | 6E-1 | 3E-10 | 9E-13 | 4E-8 | 4E-7 |
| | | W, see ^{203}Po | - | 6E-1 | 3E-10 | 9E-13 | - | - |
| 85 | Astatine-207 ² | D, halides | 6E+3 | 3E+3 | 1E-6 | 4E-9 | 8E-5 | 8E-4 |
| | | W | - | 2E+3 | 9E-7 | 3E-9 | - | - |
| 85 | Astatine-211 | D, halides | 1E+2 | 8E+1 | 3E-8 | 1E-10 | 2E-6 | 2E-5 |
| | | W | - | 5E+1 | 2E-8 | 8E-11 | - | - |
| 86 | Radon-220 | With daughters removed | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| | | With daughters present | - | 2E+1 (or 12 working level months) | 9E-9 (or 1.0 working level) | 3E-11 | - | - |
| 86 | Radon-222 | With daughters removed | - | 1E+4 | 4E-6 | 1E-8 | - | - |
| | | With daughters present | - | 1E+2 (or 4 working level months) | 3E-8 (or 0.33 working level) | 1E-10 | - | - |
| 87 | Francium-222 ² | D, all compounds | 2E+3 | 5E+2 | 2E-7 | 6E-10 | 3E-5 | 3E-4 |
| 87 | Francium-223 ² | D, all compounds | 6E+2 | 8E+2 | 3E-7 | 1E-9 | 8E-6 | 8E-5 |
| 88 | Radium-223 | W, all compounds | 5E+0 | 7E-1 | 3E-10 | 9E-13 | - | - |
| | | Bone surf (9E+0) | - | - | - | - | 1E-7 | 1E-6 |
| 88 | Radium-224 | W, all compounds | 8E+0 | 2E+0 | 7E-10 | 2E-12 | - | - |
| | | Bone surf (2E+1) | - | - | - | - | 2E-7 | 2E-6 |
| 88 | Radium-225 | W, all compounds | 8E+0 | 7E-1 | 3E-10 | 9E-13 | - | - |
| | | Bone surf (2E+1) | - | - | - | - | 2E-7 | 2E-6 |
| 88 | Radium-226 | W, all compounds | 2E+0 | 6E-1 | 3E-10 | 9E-13 | - | - |
| | | Bone surf (5E+0) | - | - | - | - | 6E-8 | 6E-7 |
| 88 | Radium-227 ² | W, all compounds | 2E+4 | 1E+4 | 6E-6 | - | - | - |
| | | Bone surf (2E+4) | Bone surf (2E+4) | - | 3E-8 | 3E-4 | 3E-3 | |
| 88 | Radium-228 | W, all compounds | 2E+0 | 1E+0 | 5E-10 | 2E-12 | - | - |
| | | Bone surf (4E+0) | - | - | - | - | 6E-8 | 6E-7 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|---|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 89 | Actinium-224 | D, all compounds except those given for W and Y | 2E+3 | 3E+1 | 1E-8 | - | - | - |
| | | | LLI wall (2E+3) | Bone surf (4E+1) | - | 5E-11 | 3E-5 | 3E-4 |
| | | W, halides and nitrates | - | 5E+1 | 2E-8 | 7E-11 | - | - |
| | | Y, oxides and hydroxides | - | 5E+1 | 2E-8 | 6E-11 | - | - |
| 89 | Actinium-225 | D, see ²²⁴ Ac | 5E+1 | 3E-1 | 1E-10 | - | - | - |
| | | | LLI wall (5E+1) | Bone surf (5E-1) | - | 7E-13 | 7E-7 | 7E-6 |
| | | W, see ²²⁴ Ac | - | 6E-1 | 3E-10 | 9E-13 | - | - |
| | | Y, see ²²⁴ Ac | - | 6E-1 | 3E-10 | 9E-13 | - | - |
| 89 | Actinium-226 | D, see ²²⁴ Ac | 1E+2 | 3E+0 | 1E-9 | - | - | - |
| | | | LLI wall (1E+2) | Bone surf (4E+0) | - | 5E-12 | 2E-6 | 2E-5 |
| | | W, see ²²⁴ Ac | - | 5E+0 | 2E-9 | 7E-12 | - | - |
| | | Y, see ²²⁴ Ac | - | 5E+0 | 2E-9 | 6E-12 | - | - |
| 89 | Actinium-227 | D, see ²²⁴ Ac | 2E-1 | 4E-4 | 2E-13 | - | - | - |
| | | | Bone surf (4E-1) | Bone surf (8E-4) | - | 1E-15 | 5E-9 | 5E-8 |
| | | W, see ²²⁴ Ac | - | 2E-3 | 7E-13 | - | - | - |
| | | | - | Bone surf (3E-3) | - | 4E-15 | - | - |
| | | Y, see ²²⁴ Ac | - | 4E-3 | 2E-12 | 6E-15 | - | - |
| 89 | Actinium-228 | D, see ²²⁴ Ac | 2E+3 | 9E+0 | 4E-9 | - | 3E-5 | 3E-4 |
| | | | - | Bone surf (2E+1) | - | 2E-11 | - | - |
| | | W, see ²²⁴ Ac | - | 4E+1 | 2E-8 | - | - | - |
| | | | - | Bone surf (6E+1) | - | 8E-11 | - | - |
| | | Y, see ²²⁴ Ac | - | 4E+1 | 2E-8 | 6E-11 | - | - |
| 90 | Thorium-226 ² | W, all compounds except those given for Y | 5E+3 | 2E+2 | 6E-8 | 2E-10 | - | - |
| | | | St wall (5E+3) | - | - | - | 7E-5 | 7E-4 |
| | | Y, oxides and hydroxides | - | 1E+2 | 6E-8 | 2E-10 | - | - |
| 90 | Thorium-227 | W, see ²²⁶ Th | 1E+2 | 3E-1 | 1E-10 | 5E-13 | 2E-6 | 2E-5 |
| | | Y, see ²²⁶ Th | - | 3E-1 | 1E-10 | 5E-13 | - | - |
| 90 | Thorium-228 | W, see ²²⁶ Th | 6E+0 | 1E-2 | 4E-12 | - | - | - |
| | | | Bone surf (1E+1) | Bone surf (2E-2) | - | 3E-14 | 2E-7 | 2E-6 |
| | | Y, see ²²⁶ Th | - | 2E-2 | 7E-12 | 2E-14 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|-------------------------------|---|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 90 | Thorium-229 | W, see ^{226}Th | 6E-1 | 9E-4 | 4E-13 | - | - | - |
| | | Y, see ^{226}Th | Bone surf (1E+0) | Bone surf (2E-3) | - | 3E-15 | 2E-8 | 2E-7 |
| 90 | Thorium-230 | W, see ^{226}Th | 4E+0 | 6E-3 | 3E-12 | - | - | - |
| | | Y, see ^{226}Th | Bone surf (9E+0) | Bone surf (2E-2) | - | 2E-14 | 1E-7 | 1E-6 |
| 90 | Thorium-231 | W, see ^{226}Th | 4E+3 | 6E+3 | 3E-6 | 9E-9 | 5E-5 | 5E-4 |
| | | Y, see ^{226}Th | - | 6E+3 | 3E-6 | 9E-9 | - | - |
| 90 | Thorium-232 | W, see ^{226}Th | 7E-1 | 1E-3 | 5E-13 | - | - | - |
| | | Y, see ^{226}Th | Bone surf (2E+0) | Bone surf (3E-3) | - | 4E-15 | 3E-8 | 3E-7 |
| 90 | Thorium-234 | W, see ^{226}Th | 3E+2 | 2E+2 | 8E-8 | 3E-10 | - | - |
| | | Y, see ^{226}Th | LLI wall (4E+2) | - | - | - | 5E-6 | 5E-5 |
| 91 | Protactinium-227 ² | W, all compounds except those given for Y | 4E+3 | 1E+2 | 5E-8 | 2E-10 | 5E-5 | 5E-4 |
| | | Y, oxides and hydroxides | - | 1E+2 | 4E-8 | 1E-10 | - | - |
| 91 | Protactinium-228 | W, see ^{227}Pa | 1E+3 | 1E+1 | 5E-9 | - | 2E-5 | 2E-4 |
| | | Y, see ^{227}Pa | Bone surf (2E+1) | - | - | 3E-11 | - | - |
| 91 | Protactinium-230 | W, see ^{227}Pa | 6E+2 | 5E+0 | 2E-9 | 7E-12 | - | - |
| | | Y, see ^{227}Pa | Bone surf (9E+2) | - | - | - | 1E-5 | 1E-4 |
| 91 | Protactinium-231 | W, see ^{227}Pa | 2E-1 | 2E-3 | 6E-13 | - | - | - |
| | | Y, see ^{227}Pa | Bone surf (5E-1) | Bone surf (4E-3) | - | 6E-15 | 6E-9 | 6E-8 |
| | | | - | 4E-3 | 2E-12 | - | - | - |
| | | | - | Bone surf (6E-3) | - | 8E-15 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---------------------------|------------------------------|--|---------------------|---------------------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 91 | Protactinium-232 | W, see ^{227}Pa | 1E+3 | 2E+1 | 9E-9 | - | 2E-5 | 2E-4 |
| | | Y, see ^{227}Pa | - | Bone surf (6E+1) | - | 8E-11 | - | - |
| 91 | Protactinium-233 | W, see ^{227}Pa | 1E+3 | 7E+2 | 3E-7 | 1E-9 | - | - |
| | | Y, see ^{227}Pa | - | Bone surf (7E+1) | - | 1E-10 | - | - |
| 91 | Protactinium-234 | W, see ^{227}Pa | 2E+3 | 8E+3 | 3E-6 | 1E-8 | 3E-5 | 3E-4 |
| | | Y, see ^{227}Pa | - | 7E+3 | 3E-6 | 9E-9 | - | - |
| 92 | Uranium-230 | D, UF, UOF, UO(NO) | 4E+0 | 4E-1 | 2E-10 | - | - | - |
| | | W, UO, UF, UCI | - | Bone surf (6E+0) | Bone surf (6E-1) | - | 8E-13 | 8E-8 |
| 92 | Uranium-231 | D, see ^{230}U | 5E+3 | 8E+3 | 3E-6 | 1E-8 | - | - |
| | | W, see ^{230}U | - | LLI wall (4E+3) | - | - | - | 6E-5 |
| 92 | Uranium-232 | D, see ^{230}U | 2E+0 | 2E-1 | 9E-11 | - | - | - |
| | | W, see ^{230}U | - | Bone surf (4E+0) | Bone surf (4E-1) | - | 6E-13 | 6E-8 |
| 92 | Uranium-233 | D, see ^{230}U | 1E+1 | 1E+0 | 5E-10 | - | - | - |
| | | W, see ^{230}U | - | Bone surf (2E+1) | Bone surf (2E+0) | - | 3E-12 | 3E-7 |
| 92 | Uranium-234 ³ | D, see ^{230}U | 1E+1 | 1E+0 | 5E-10 | - | - | - |
| | | W, see ^{230}U | - | Bone surf (2E+1) | Bone surf (2E+0) | - | 3E-12 | 3E-7 |
| 92 | Uranium-235 ³ | D, see ^{230}U | 1E+1 | 1E+0 | 6E-10 | - | - | - |
| | | W, see ^{230}U | - | Bone surf (2E+1) | Bone surf (2E+0) | - | 3E-12 | 3E-7 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|------------------------------|------------------------------|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 92 | Uranium-236 | D, see ^{230}U | 1E+1 | 1E+0 | 5E-10 | - | - | - |
| | | | Bone surf (2E+1) | Bone surf (2E+0) | - | 3E-12 | 3E-7 | 3E-6 |
| | | W, see ^{230}U | - | 8E-1 | 3E-10 | 1E-12 | - | - |
| | Y, see ^{230}U | - | 4E-2 | 2E-11 | 6E-14 | - | - | |
| 92 | Uranium-237 | D, see ^{230}U | 2E+3 | 3E+3 | 1E-6 | 4E-9 | - | - |
| | | | LLI wall (2E+3) | - | - | - | 3E-5 | 3E-4 |
| | | W, see ^{230}U | - | 2E+3 | 7E-7 | 2E-9 | - | - |
| | Y, see ^{230}U | - | 2E+3 | 6E-7 | 2E-9 | - | - | |
| 92 | Uranium-238 ³ | D, see ^{230}U | 1E+1 | 1E+0 | 6E-10 | - | - | - |
| | | | Bone surf (2E+1) | Bone surf (2E+0) | - | 3E-12 | 3E-7 | 3E-6 |
| | | W, see ^{230}U | - | - | 3E-10 | 1E-12 | - | - |
| | Y, see ^{230}U | - | 4E-2 | 2E-11 | 6E-14 | - | - | |
| 92 | Uranium-239 ² | D, see ^{230}U | 7E+4 | 2E+5 | 8E-5 | 3E-7 | 9E-4 | 9E-3 |
| | | W, see ^{230}U | - | 2E+5 | 7E-5 | 2E-7 | - | - |
| | | Y, see ^{230}U | - | 2E+5 | 6E-5 | 2E-7 | - | - |
| 92 | Uranium-240 | D, see ^{230}U | 1E+3 | 4E+3 | 2E-6 | 5E-9 | 2E-5 | 2E-4 |
| | | W, see ^{230}U | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| | | Y, see ^{230}U | - | 2E+3 | 1E-6 | 3E-9 | - | - |
| 92 | Uranium-natural ³ | D, see ^{230}U | 1E+1 | 1E+0 | 5E-10 | - | - | - |
| | | | Bone surf (2E+1) | Bone surf (2E+0) | - | 3E-12 | 3E-7 | 3E-6 |
| | | W, see ^{230}U | - | 8E-1 | 3E-10 | 9E-13 | - | - |
| | Y, see ^{230}U | - | 5E-2 | 2E-11 | 9E-14 | - | - | |
| 93 | Neptunium-232 ² | W, all compounds | 1E+5 | 2E+3 | 7E-7 | - | 2E-3 | 2E-2 |
| | | | - | Bone surf (5E+2) | - | 6E-9 | - | - |
| 93 | Neptunium-233 ² | W, all compounds | 8E+5 | 3E+6 | 1E-3 | 4E-6 | 1E-2 | 1E-1 |
| 93 | Neptunium-234 | W, all compounds | 2E+3 | 3E+3 | 1E-6 | 4E-9 | 3E-5 | 3E-4 |
| 93 | Neptunium-235 | W, all compounds | 2E+4 | 8E+2 | 3E-7 | - | - | - |
| | | | LLI wall (2E+4) | Bone surf (1E+3) | - | 2E-9 | 3E-4 | 3E-3 |
| 93 | Neptunium-236 (1.15E+5 y) | W, all compounds | 3E+0 | 2E-2 | 9E-12 | - | - | - |
| | | | Bone surf (6E+0) | Bone surf (5E-2) | - | 8E-14 | 9E-8 | 9E-7 |
| 93 | Neptunium-236 (22.5 h) | W, all compounds | 3E+3 | 3E+1 | 1E-8 | - | - | - |
| | | | Bone surf (4E+3) | Bone surf (7E+1) | - | 1E-10 | 5E-5 | 5E-4 |
| 93 | Neptunium-237 | W, all compounds | 5E-1 | 4E-3 | 2E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (1E-2) | - | 1E-14 | 2E-8 | 2E-7 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|----------------------------|--|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 93 | Neptunium-238 | W, all compounds | 1E+3 | 6E+1 | 3E-8 | - | 2E-5 | 2E-4 |
| | | | | Bone surf (2E+2) | - | 2E-10 | - | - |
| 93 | Neptunium-239 | W, all compounds | 2E+3 | 2E+3 | 9E-7 | 3E-9 | - | - |
| | | | LLI wall (2E+3) | - | - | - | 2E-5 | 2E-4 |
| 93 | Neptunium-240 ² | W, all compounds | 2E+4 | 8E+4 | 3E-5 | 1E-7 | 3E-4 | 3E-3 |
| 94 | Plutonium-234 | W, all compounds except PuO Y, PuO | 8E+3 | 2E+2 | 9E-8 | 3E-10 | 1E-4 | 1E-3 |
| | | | - | 2E+2 | 8E-8 | 3E-10 | - | - |
| 94 | Plutonium-235 ² | W, see ²³⁴ Pu | 9E+5 | 3E+6 | 1E-3 | 4E-6 | 1E-2 | 1E-1 |
| | | Y, see ²³⁴ Pu | - | 3E+6 | 1E-3 | 3E-6 | - | - |
| 94 | Plutonium-236 | W, see ²³⁴ Pu | 2E+0 | 2E-2 | 8E-12 | - | - | - |
| | | | Bone surf (4E+0) | Bone surf (4E-2) | - | 5E-14 | 6E-8 | 6E-7 |
| | | Y, see ²³⁴ Pu | - | 4E-2 | 2E-11 | 6E-14 | - | - |
| 94 | Plutonium-237 | W, see ²³⁴ Pu | 1E+4 | 3E+3 | 1E-6 | 5E-9 | 2E-4 | 2E-3 |
| | | Y, see ²³⁴ Pu | - | 3E+3 | 1E-6 | 4E-9 | - | - |
| 94 | Plutonium-238 | W, see ²³⁴ Pu | 9E-1 | 7E-3 | 3E-12 | - | - | - |
| | | | Bone surf (2E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| | | Y, see ²³⁴ Pu | - | 2E-2 | 8E-12 | 2E-14 | - | - |
| 94 | Plutonium-239 | W, see ²³⁴ Pu | 8E-1 | 6E-3 | 3E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| | | Y, see ²³⁴ Pu | - | 2E-2 | 7E-12 | - | - | - |
| | | | - | Bone surf (2E-2) | - | 2E-14 | - | - |
| 94 | Plutonium-240 | W, see ²³⁴ Pu | 8E-1 | 6E-3 | 3E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| | | Y, see ²³⁴ Pu | - | 2E-2 | 7E-12 | - | - | - |
| | | | - | Bone surf (2E-2) | - | 2E-14 | - | - |
| 94 | Plutonium-241 | W, see ²³⁴ Pu | 4E+1 | 3E-1 | 1E-10 | - | - | - |
| | | | Bone surf (7E+1) | Bone surf (6E-1) | - | 8E-13 | 1E-6 | 1E-5 |
| | | Y, see ²³⁴ Pu | - | 8E-1 | 3E-10 | - | - | - |
| | | | - | Bone surf (1E+0) | - | 1E-12 | - | - |
| 94 | Plutonium-242 | W, see ²³⁴ Pu | 8E-1 | 7E-3 | 3E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| | | Y, see ²³⁴ Pu | - | 2E-2 | 7E-12 | - | - | - |
| | | | - | Bone surf (2E-2) | - | 2E-14 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|-----------------------------|------------------------------|--|---------------------|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | | | |
| 94 | Plutonium-243 | W, see ^{234}Pu | 2E+4 | 4E+4 | 2E-5 | 5E-8 | 2E-4 | 2E-3 |
| | | Y, see ^{234}Pu | - | 4E+4 | 2E-5 | 5E-8 | - | - |
| 94 | Plutonium-244 | W, see ^{234}Pu | 8E-1 | 7E-3 | 3E-12 | - | - | - |
| | | Y, see ^{234}Pu | Bone surf (2E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| | | | - | 2E-2 | 7E-12 | - | - | - |
| | | - | Bone surf (2E-2) | - | 2E-14 | - | - | |
| 94 | Plutonium-245 | W, see ^{234}Pu | 2E+3 | 5E+3 | 2E-6 | 6E-9 | 3E-5 | 3E-4 |
| | | Y, see ^{234}Pu | - | 4E+3 | 2E-6 | 6E-9 | - | - |
| 94 | Plutonium-246 | W, see ^{234}Pu | 4E+2 | 3E+2 | 1E-7 | 4E-10 | - | - |
| | | Y, see ^{234}Pu | LLI wall (4E+2) | - | - | - | 6E-6 | 6E-5 |
| | | | - | 3E+2 | 1E-7 | 4E-10 | - | - |
| 95 | Americium-237 ² | W, all compounds | 8E+4 | 3E+5 | 1E-4 | 4E-7 | 1E-3 | 1E-2 |
| 95 | Americium-238 ² | W, all compounds | 4E+4 | 3E+3 | 1E-6 | - | 5E-4 | 5E-3 |
| | | | - | Bone surf (6E+3) | - | 9E-9 | - | - |
| 95 | Americium-239 | W, all compounds | 5E+3 | 1E+4 | 5E-6 | 2E-8 | 7E-5 | 7E-4 |
| 95 | Americium-240 | W, all compounds | 2E+3 | 3E+3 | 1E-6 | 4E-9 | 3E-5 | 3E-4 |
| 95 | Americium-241 | W, all compounds | 8E-1 | 6E-3 | 3E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| 95 | Americium-242m | W, all compounds | 8E-1 | 6E-3 | 3E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| 95 | Americium-242 | W, all compounds | 4E+3 | 8E+1 | 4E-8 | - | 5E-5 | 5E-4 |
| | | | - | Bone surf (9E+1) | - | 1E-10 | - | - |
| 95 | Americium-243 | W, all compounds | 8E-1 | 6E-3 | 3E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| 95 | Americium-244m ² | W, all compounds | 6E+4 | 4E+3 | 2E-6 | - | - | - |
| | | | St wall (8E+4) | Bone surf (7E+3) | - | 1E-8 | 1E-3 | 1E-2 |
| 95 | Americium-244 | W, all compounds | 3E+3 | 2E+2 | 8E-8 | - | 4E-5 | 4E-4 |
| | | | - | Bone surf (3E+2) | - | 4E-10 | - | - |
| 95 | Americium-245 | W, all compounds | 3E+4 | 8E+4 | 3E-5 | 1E-7 | 4E-4 | 4E-3 |
| 95 | Americium-246m ² | W, all compounds | 5E+4 | 2E+5 | 8E-5 | 3E-7 | - | - |
| | | | St wall (6E+4) | - | - | - | 8E-4 | 8E-3 |
| 95 | Americium-246 ² | W, all compounds | 3E+4 | 1E+5 | 4E-5 | 1E-7 | 4E-4 | 4E-3 |
| 96 | Curium-238 | W, all compounds | 2E+4 | 1E+3 | 5E-7 | 2E-9 | 2E-4 | 2E-3 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|-------------------------|------------------|--|---|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) DAC ($\mu\text{Ci/ml}$) | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| 96 | Curium-240 | W, all compounds | 6E+1 | 6E-1 | 2E-10 | - | - | - |
| | | | Bone surf (8E+1) | Bone surf (6E-1) | - | 9E-13 | 1E-6 | 1E-5 |
| 96 | Curium-241 | W, all compounds | 1E+3 | 3E+1 | 1E-8 | - | 2E-5 | 2E-4 |
| | | | - | Bone surf (4E+1) | - | 5E-11 | - | - |
| 96 | Curium-242 | W, all compounds | 3E+1 | 3E-1 | 1E-10 | - | - | - |
| | | | Bone surf (5E+1) | Bone surf (3E-1) | - | 4E-13 | 7E-7 | 7E-6 |
| 96 | Curium-243 | W, all compounds | 1E+0 | 9E-3 | 4E-12 | - | - | - |
| | | | Bone surf (2E+0) | Bone surf (2E-2) | - | 2E-14 | 3E-8 | 3E-7 |
| 96 | Curium-244 | W, all compounds | 1E+0 | 1E-2 | 5E-12 | - | - | - |
| | | | Bone surf (3E+0) | Bone surf (2E-2) | - | 3E-14 | 3E-8 | 3E-7 |
| 96 | Curium-245 | W, all compounds | 7E-1 | 6E-3 | 3E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| 96 | Curium-246 | W, all compounds | 7E-1 | 6E-3 | 3E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| 96 | Curium-247 | W, all compounds | 8E-1 | 6E-3 | 3E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (1E-2) | - | 2E-14 | 2E-8 | 2E-7 |
| 96 | Curium-248 | W, all compounds | 2E-1 | 2E-3 | 7E-13 | - | - | - |
| | | | Bone surf (4E-1) | Bone surf (3E-3) | - | 4E-15 | 5E-9 | 5E-8 |
| 96 | Curium-249 ² | W, all compounds | 5E+4 | 2E+4 | 7E-6 | - | 7E-4 | 7E-3 |
| | | | - | Bone surf (3E+4) | - | 4E-8 | - | - |
| 96 | Curium-250 | W, all compounds | 4E-2 | 3E-4 | 1E-13 | - | - | - |
| | | | Bone surf (6E-2) | Bone surf (5E-4) | - | 8E-16 | 9E-10 | 9E-9 |
| 97 | Berkelium-245 | W, all compounds | 2E+3 | 1E+3 | 5E-7 | 2E-9 | 3E-5 | 3E-4 |
| 97 | Berkelium-246 | W, all compounds | 3E+3 | 3E+3 | 1E-6 | 4E-9 | 4E-5 | 4E-4 |
| 97 | Berkelium-247 | W, all compounds | 5E-1 | 4E-3 | 2E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (9E-3) | - | 1E-14 | 2E-8 | 2E-7 |
| 97 | Berkelium-249 | W, all compounds | 2E+2 | 2E+0 | 7E-10 | - | - | - |
| | | | Bone surf (5E+2) | Bone surf (4E+0) | - | 5E-12 | 6E-6 | 6E-5 |
| 97 | Berkelium-250 | W, all compounds | 9E+3 | 3E+2 | 1E-7 | - | 1E-4 | 1E-3 |
| | | | - | Bone surf (7E+2) | - | 1E-9 | - | - |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|------------------------------|---|--|---------------------------|------------------------------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | | | | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | |
| 98 | Californium-244 ² | W, all compounds except those given for Y | 3E+4 | 6E+2 | 2E-7 | 8E-10 | - | - |
| | | | St wall (3E+4) | - | - | - | 4E-4 | 4E-3 |
| | | Y, oxides and hydroxides | - | 6E+2 | 2E-7 | 8E-10 | - | - |
| 98 | Californium-246 | W, see ²⁴⁴ Cf | 4E+2 | 9E+0 | 4E-9 | 1E-11 | 5E-6 | 5E-5 |
| | | Y, see ²⁴⁴ Cf | - | 9E+0 | 4E-9 | 1E-11 | - | - |
| 98 | Californium-248 | W, see ²⁴⁴ Cf | 8E+0 | 6E-2 | 3E-11 | - | - | - |
| | | | Bone surf (2E+1) | Bone surf (1E-1) | - | 2E-13 | 2E-7 | 2E-6 |
| | | Y, see ²⁴⁴ Cf | - | 1E-1 | 4E-11 | 1E-13 | - | - |
| 98 | Californium-249 | W, see ²⁴⁴ Cf | 5E-1 | 4E-3 | 2E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (9E-3) | - | 1E-14 | 2E-8 | 2E-7 |
| | | Y, see ²⁴⁴ Cf | - | 1E-2 | 4E-12 | - | - | - |
| | | | - | Bone surf (1E-2) | - | 2E-14 | - | - |
| 98 | Californium-250 | W, see ²⁴⁴ Cf | 1E+0 | 9E-3 | 4E-12 | - | - | - |
| | | | Bone surf (2E+0) | Bone surf (2E-2) | - | 3E-14 | 3E-8 | 3E-7 |
| | | Y, see ²⁴⁴ Cf | - | 3E-2 | 1E-11 | 4E-14 | - | - |
| 98 | Californium-251 | W, see ²⁴⁴ Cf | 5E-1 | 4E-3 | 2E-12 | - | - | - |
| | | | Bone surf (1E+0) | Bone surf (9E-3) | - | 1E-14 | 2E-8 | 2E-7 |
| | | Y, see ²⁴⁴ Cf | - | 1E-2 | 4E-12 | - | - | - |
| | | | - | Bone surf (1E-2) | - | 2E-14 | - | - |
| 98 | Californium-252 | W, see ²⁴⁴ Cf | 2E+0 | 2E-2 | 8E-12 | - | - | - |
| | | | Bone surf (5E+0) | Bone surf (4E-2) | - | 5E-14 | 7E-8 | 7E-7 |
| | | Y, see ²⁴⁴ Cf | - | 3E-2 | 1E-11 | 5E-14 | - | - |
| 98 | Californium-253 | W, see ²⁴⁴ Cf | 2E+2 | 2E+0 | 8E-10 | 3E-12 | - | - |
| | | | Bone surf (4E+2) | - | - | - | 5E-6 | 5E-5 |
| | | Y, see ²⁴⁴ Cf | - | 2E+0 | 7E-10 | 2E-12 | - | - |
| 98 | Californium-254 | W, see ²⁴⁴ Cf | 2E+0 | 2E-2 | 9E-12 | 3E-14 | 3E-8 | 3E-7 |
| | | Y, see ²⁴⁴ Cf | - | 2E-2 | 7E-12 | 2E-14 | - | - |
| 99 | Einsteinium-250 | W, all compounds | 4E+4 | 5E+2 | 2E-7 | - | 6E-4 | 6E-3 |
| | | | - | Bone surf (1E+3) | - | 2E-9 | - | - |
| 99 | Einsteinium-251 | W, all compounds | 7E+3 | 9E+2 | 4E-7 | - | 1E-4 | 1E-3 |
| | | | - | Bone surf (1E+3) | - | 2E-9 | - | - |
| 99 | Einsteinium-253 | W, all compounds | 2E+2 | 1E+0 | 6E-10 | 2E-12 | 2E-6 | 2E-5 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|---|-------------------------|--|---|--------|--|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) DAC ($\mu\text{Ci/ml}$) | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| 99 | Einsteinium-254m | W, all compounds | 3E+2 | 1E+1 | 4E-9 | 1E-11 | - | - |
| | | | Bone surf (3E+2) | - | - | - | 4E-6 | 4E-5 |
| 99 | Einsteinium-254 | W, all compounds | 8E+0 | 7E-2 | 3E-11 | - | - | - |
| | | | Bone surf (2E+1) | Bone surf (1E-1) | - | 2E-13 | 2E-7 | 2E-6 |
| 100 | Fermium-252 | W, all compounds | 5E+2 | 1E+1 | 5E-9 | 2E-11 | 6E-6 | 6E-5 |
| 100 | Fermium-253 | W, all compounds | 1E+3 | 1E+1 | 4E-9 | 1E-11 | 1E-5 | 1E-4 |
| 100 | Fermium-254 | W, all compounds | 3E+3 | 9E+1 | 4E-8 | 1E-10 | 4E-5 | 4E-4 |
| 100 | Fermium-255 | W, all compounds | 5E+2 | 2E+1 | 9E-9 | 3E-11 | 7E-6 | 7E-5 |
| 100 | Fermium-257 | W, all compounds | 2E+1 | 2E-1 | 7E-11 | - | - | - |
| | | | Bone surf (4E+1) | Bone surf (2E-1) | - | 3E-13 | 5E-7 | 5E-6 |
| 101 | Mendelevium-257 | W, all compounds | 7E+3 | 8E+1 | 4E-8 | - | 1E-4 | 1E-3 |
| | | | - | Bone surf (9E+1) | - | 1E-10 | - | - |
| 101 | Mendelevium-258 | W, all compounds | 3E+1 | 2E-1 | 1E-10 | - | - | - |
| | | | Bone surf (5E+1) | Bone surf (3E-1) | - | 5E-13 | 6E-7 | 6E-6 |
| - | Any single radionuclide not listed above with decay mode other than alpha emission or spontaneous fission and with radioactive half-life less than 2 hours | Submersion ¹ | - | 2E+2 | 1E-7 | 1E-9 | - | - |
| - | Any single radionuclide not listed above with decay mode other than alpha emission or spontaneous fission and with radioactive half-life greater than 2 hours | | - | 2E-1 | 1E-10 | 1E-12 | 1E-8 | 1E-7 |

| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|------------|--|-------|--------------------------------------|------------------------------|--------|-------------------------------------|--------------------------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations ($\mu\text{Ci/ml}$) |
| | | | Oral Ingestion (μCi) | Inhalation | | Air ($\mu\text{Ci/ml}$) | Water ($\mu\text{Ci/ml}$) | |
| | | | ALI (μCi) | DAC ($\mu\text{Ci/ml}$) | | | | |
| - | Any single radionuclide not listed above that decays by alpha emission or spontaneous fission, or any mixture for which either the identity or the concentration of any radionuclide in the mixture is not known | | - | 4E-4 | 2E-13 | 1E-15 | 2E-9 | 2E-8 |

FOOTNOTES:

¹"Submersion" means that values given are for submersion in a hemispherical semi-infinite cloud of airborne

²These radionuclides have radiological half-lives of less than 2 hours. The total effective dose equivalent received during operations with these radionuclides might include a significant contribution from external exposure. The DAC values for all radionuclides, other than those designated Class "Submersion," are based upon the committed effective dose equivalent due to the intake of the radionuclide into the body and do NOT include potentially significant contributions to dose equivalent from external exposures. The licensee may substitute 1E-7 $\mu\text{Ci/ml}$ for the listed DAC to account for the submersion dose prospectively, but should use individual monitoring devices or other radiation measuring instruments that measure external exposure to demonstrate compliance with the limits.

³For soluble mixtures of U-238, U-234, and U-235 in air, chemical toxicity may be the limiting factor. If the percent by weight (enrichment) of U-235 is not greater than 5, the concentration value for a 40-hour workweek is 0.2 milligrams uranium per cubic meter of air average. For any enrichment, the product of the average concentration and time of exposure during a 40-hour workweek shall not exceed 8E-3 (SA) $\mu\text{Ci-hr/ml}$, where SA is the specific activity of the uranium inhaled. The specific activity for natural uranium is 6.77E-7 curies per gram U. The specific activity for other mixtures of U-238, U-235, and U-234, if not known, shall be:

$$SA = 3.6E-7 \text{ curies/gram U } \quad \text{U-depleted}$$

$$SA = [0.4 + 0.38 (\text{enrichment}) + 0.0034 (\text{enrichment})^2] E-6, \text{ enrichment } \geq 0.72$$

where enrichment is the percentage by weight of U-235, expressed as percent.

NOTE:

- 1 If the identity of each radionuclide in a mixture is known but the concentration of one or more of the radionuclides in the mixture is not known, the DAC for the mixture shall be the most restrictive DAC of any radionuclide in the mixture.
- 2 If the identity of each radionuclide in the mixture is not known, but it is known that certain radionuclides specified in this appendix are not present in the mixture, the inhalation ALI, DAC, and effluent and sewage concentrations for the mixture are the lowest values specified in this appendix for any radionuclide that is not known to be absent from the mixture; or

| Atomic Radionuclide No. | Radionuclide Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|--|--------------------|--------------------------------|-----------------------------------|--------|-------------------------------------|----------------|---|
| | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations (μCi/ml) |
| | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) DAC (μCi/ml) | | Air (μCi/ml) | Water (μCi/ml) | |
| If it is known that Ac-227-D and Cm-250-W are not present | | - | 7E-4 | 3E-13 | - | - | - |
| If, in addition, it is known that Ac-227-W,Y, Th-229-W,Y, Th-230-W, Th-232-W,Y, Pa-231-W,Y, Np-237-W, Pu-239-W, Pu-240-W, Pu-242-W, Am-241-W, Am-242m-W, Am-243-W, Cm-245-W, Cm-246-W, Cm-247-W, Cm-248-W, Bk-247-W, Cf-249-W, and Cf-251-W are not present | | - | 7E-3 | 3E-12 | - | - | - |
| If, in addition, it is known that Sm-146-W, Sm-147-W, Gd-148-D,W, Gd-152-D,W, Th-228-W,Y, Th-230-Y, U-232-Y, U-233-Y, U-234-Y, U-235-Y, U-236-Y, U-238-Y, Np-236-W, Pu-236-W,Y, Pu-238-W,Y, Pu-239-Y, Pu-240-Y, Pu-242-Y, Pu-244-W,Y, Cm-243-W, Cm-244-W, Cf-248-W, Cf-249-Y, Cf-250-W,Y, Cf-251-Y, Cf-252-W,Y, and Cf-254-W,Y are not present | | - | 7E-2 | 3E-11 | - | - | - |
| If, in addition, it is known that Pb-210-D, Bi-210m-W, Po-210-D,W, Ra-223-W, Ra-225-W, Ra-226-W, Ac-225-D,W,Y, Th-227-W,Y, U-230-D,W,Y, U-232-D,W, Pu-241-W, Cm-240-W, Cm-242-W, Cf-248-Y, Es-254-W, Fm-257-W, and Md-258-W are not present | | - | 7E-1 | 3E-10 | - | - | - |
| If, in addition, it is known that Si-32-Y, Ti-44-Y, Fe-60-D, Sr-90-Y, Zr-93-D, Cd-113m-D, Cd-113-D, In-115-D,W, La-138-D, Lu-176-W, Hf-178m-D,W, Hf-182-D,W, Bi-210m-D, Ra-224-W, Ra-228-W, Ac-226-D,W,Y, Pa-230-W,Y, U-233-D,W, U-234-D,W, U-235-D,W, U-236-D,W, U-238-D,W, Pu-241-Y, Bk-249-W, Cf-253-W,Y, and Es-253-W are not present | | - | 7E+0 | 3E-9 | - | - | - |
| If it is known that Ac-227-D,W,Y, Th-229-W,Y, Th-232-W,Y, Pa-231-W,Y, Cm-248-W, and Cm-250-W are not present | | - | - | - | 1E-14 | - | - |
| If, in addition, it is known that Sm-146-W, Gd-148-D,W, Gd-152-D, Th-228-W,Y, Th-230-W,Y, U-232-Y, U-233-Y, U-234-Y, U-235-Y, U-236-Y, U-238-Y, U-Nat-Y, Np-236-W, Np-237-W, Pu-236-W,Y, Pu-238-W,Y, Pu-239-W,Y, Pu-240-W,Y, Pu-242-W,Y, Pu-244-W,Y, Am-241-W, Am-242m-W, Am-243-W, Cm-243-W, Cm-244-W, Cm-245-W, Cm-246-W, Cm-247-W, Bk-247-W, Cf-249-W,Y, Cf-250-W,Y, Cf-251-W,Y, Cf-252-W,Y, and Cf-254-W,Y are not present | | - | - | - | 1E-13 | - | - |

| Atomic Radionuclide No. | Radionuclide Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Release to Sewers |
|-------------------------|--------------------|--------------------------------|-----------------------------------|--------|-------------------------------------|----------------|---|
| | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentrations (μCi/ml) |
| | | Oral Ingestion ALI (μCi) | Inhalation ALI (μCi) DAC (μCi/ml) | | Air (μCi/ml) | Water (μCi/ml) | |

If, in addition, it is known that Sm-147-W, Gd-152-W, Pb-210-D, Bi-210m-W, Po-210-D,W, Ra-223-W, Ra-225-W, Ra-226-W, Ac-225-D,W,Y, Th-227-W,Y, U-230-D,W,Y, U-232-D,W, U-Nat-W, Pu-241-W, Cm-240-W, Cm-242-W, Cf-248-W,Y, Es-254-W, Fm-257-W, and Md-258-W are not present

- - - 1E-12 - -

If, in addition it is known that Fe-60, Sr-90, Cd-113m, Cd-113, In-115, I-129, Cs-134, Sm-145, Sm-147, Gd-148, Gd-152, Hg-194 (organic), Bi-210m, Ra-223, Ra-224, Ra-225, Ac-225, Th-228, Th-230, U-233, U-234, U-235, U-236, U-238, U-Nat, Cm-242, Cf-248, Es-254, Fm-257, and Md-258 are not present

- - - - 1E-6 1E-5

3 If a mixture of radionuclides consists of uranium and its daughters in ore dust (10 μm AMAD particle distribution assumed) prior to chemical separation of the uranium from the ore, the following values may be used for the DAC of the mixture: 6E-11 μCi of gross alpha activity from uranium-238, uranium-234, thorium-230, and radium-226 per milliliter of air; 3E-11 μCi of natural uranium per milliliter of air; or 45 micrograms of natural uranium per cubic meter of air.

4 If the identity and concentration of each radionuclide in a mixture are known, the limiting values should be derived as follows: determine, for each radionuclide in the mixture, the ratio between the concentration present in the mixture and the concentration otherwise established in this subsection for the specific radionuclide when not in a mixture. The sum of such ratios for all of the radionuclides in the mixture may not exceed "1" (i.e., "unity").

Example: If radionuclides "A," "B," and "C" are present in concentrations C_A, C_B, and C_C, and if the applicable DACs are DAC_A, DAC_B, and DAC_C, respectively, then the concentrations shall be limited so that the following relationship exists:

$$\frac{C_A}{DAC_A} + \frac{C_B}{DAC_B} + \frac{C_C}{DAC_C} \leq 1$$