

| Atomic No. | Radionuclide              | Class  | Table 1<br>Occupational Values                           |                                     |  | Table 2<br>Effluent Concentrations              |   | Table 3<br>Releases to Sewers  |
|------------|---------------------------|--|--|-------------------------------------|--|---|---|--|
|            |                           |  | Col. 1<br>Oral<br>Ingestion<br>All<br>( $\mu\text{Ci}$ ) | Inhalation                          |  | Col. 1<br>Air<br>( $\mu\text{Ci}/\text{ft}^3$ ) | Col. 2<br>Water<br>( $\mu\text{Ci}/\text{ml}$ ) | Monthly<br>Average<br>Concentration<br>( $\mu\text{Ci}/\text{m}^3$ ) |
|            |                           |  |  | Col. 2<br>All<br>( $\mu\text{Ci}$ ) | Col. 3<br>DAC<br>( $\mu\text{Ci}/\text{m}^3$ ) |   |   |  |
| 74         | Tungsten-178              | D, all compounds                             | 5E+3   | 2E+4                                | 8E-6   | 3E-8  | 7E-5  | 7E-4   |
| 74         | Tungsten-179 <sup>2</sup> | 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<br>LLT wall<br>(3E+3)                               | 7E+3                                | 3E-6   | 9E-9  | -   | 4E-5<br>4E-8   |
| 74         | Tungsten-187              | B, all compounds                             | 2E+3   | 9E+3                                | 9E-6   | 1E-8  | 3E-5  | 3E-4   |
| 74         | Tungsten-188              | D, all compounds                             | 4E+2<br>LLT wall<br>(5E+2)                               | 2E+3                                | 9E-7   | 2E-9  | -   | 7E-6<br>7E-5   |
| 75         | Rhenium-177 <sup>2</sup>  | D, all compounds except<br>those given for W | 9E+4<br>St. wall<br>(2E+5)                               | 3E+5                                | 1E-4   | 4E-7  | -   | -  |
|            |                           | W, oxides, hydroxides,<br>and nitrates       | -  | 4E+5                                | 1E-4   | 5E-7  | -   | 2E-3<br>2E-2   |
| 75         | Rhenium-178 <sup>2</sup>  | D, see <sup>177</sup> Re                     | 7E+4<br>St. wall<br>(1E+5)                               | 3E+5                                | 1E-4   | 4E-7  | -   | -  |
|            |                           | W, see <sup>177</sup> Re                     | -  | 3E+5                                | 1E-4   | 4E-7  | -   | 1E-3<br>3E-2   |
| 75         | Rhenium-181               | D, see <sup>177</sup> Re                     | 5E+3   | 9E+3                                | 8E-6   | 1E-8  | 7E-5  | 7E-4   |
|            |                           | W, see <sup>177</sup> Re                     | -  | 8E+3                                | 4E-6   | 1E-8  | -   | -  |
| 75         | Rhenium-182<br>(12.7 h)   | D, see <sup>177</sup> Re                     | 7E+3   | 1E+4                                | 5E-6   | 2E-8  | 9E-5  | 9E-4   |
|            |                           | W, see <sup>177</sup> Re                     | -  | 2E+4                                | 6E-6   | 2E-8  | -   | -  |
| 75         | Rhenium-182<br>(64.0 h)   | D, see <sup>177</sup> Re                     | 1E+3   | 7E+3                                | 1E-6   | 3E-9  | 2E-5  | 2E-4   |
|            |                           | W, see <sup>177</sup> Re                     | -  | 2E+3                                | 9E-7   | 2E-9  | -   | -  |
| 75         | Rhenium-184a              | D, see <sup>177</sup> Re                     | 2E+3   | 3E+3                                | 1E-6   | 4E-9  | 3E-5  | 3E-4   |
|            |                           | W, see <sup>177</sup> Re                     | -  | 4E+2                                | 2E-7   | 6E-10   | -   | -  |
| 75         | Rhenium-184               | D, see <sup>177</sup> Re                     | 2E+3   | 4E+3                                | 1E-6   | 5E-9  | 3E-5  | 2E-4   |
|            |                           | W, see <sup>177</sup> Re                     | -  | 3E+3                                | 6E-7   | 2E-9  | -   | -  |
| 75         | Rhenium-186a              | D, see <sup>177</sup> Re                     | 1E+3<br>St. wall<br>(2E+3)                               | 2E+3                                | 2E-7   | -   | -   | -  |
|            |                           | W, see <sup>177</sup> Re                     | -  | 2E+2                                | 6E-8   | 2E-9<br>2E-10                                   | 2E-5  | 2E-4   |
| 75         | Rhenium-186               | D, see <sup>177</sup> Re                     | 2E+3   | 2E+3                                | 1E-6   | 4E-9  | 3E-5  | 2E-4   |
|            |                           | W, see <sup>177</sup> Re                     | -  | 3E+3                                | 7E-7   | 2E-9  | -   | -  |
| 75         | Rhenium-187               | D, see <sup>177</sup> Re                     | 6E+5   | 8E+5                                | 4E-4   | -   | 8E-3  | 8E-2   |
|            |                           | W, see <sup>177</sup> Re                     | -  | St. wall<br>(9E+5)<br>1E+5          | -  | 1E-6<br>1E-7                                    | -   | -  |
| 75         | Rhenium-188a <sup>2</sup> | D, see <sup>177</sup> Re                     | 8E+4   | 1E+5                                | 6E-5   | 2E-7  | 1E-3  | 1E-2   |
|            |                           | W, see <sup>177</sup> Re                     | -  | 1E+5                                | 6E-5   | 2E-7  | -   | -  |
| 75         | Rhenium-188               | D, see <sup>177</sup> Re                     | 2E+3   | 3E+3                                | 1E-6   | 4E-9  | 2E-5  | 2E-4   |
|            |                           | W, see <sup>177</sup> Re                     | -  | 3E+3                                | 2E-6   | 4E-9  | -   | -  |