



## Zoning Resolution

THE CITY OF NEW YORK

Eric Adams, Mayor

CITY PLANNING COMMISSION

Daniel R. Garodnick, Chair

# **APPENDIX G – Radioactive Materials**

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## APPENDIX G — Radioactive Materials

(12/15/61)

EXCERPT FROM SECTION 38-2 OF INDUSTRIAL CODE RULE NO. 38 RELATING TO RADIATION PROTECTION\*

(Section 42-262 of the Zoning Resolution limits quantities of unsealed radioactive materials which may be manufactured, utilized or stored in #Manufacturing Districts#)

MAXIMUM PERMITTED QUANTITIES OF

UNSEALED RADIOACTIVE MATERIAL

| Material                                | Unsealed<br>(microcuries) |
|---|---------------------------|
| Antimony 124 (Sb 124)                   | 1.0                       |
| Arsenic 76 (As 76)                      | 10.0                      |
| Arsenic 77 (As 77)                      | 10.0                      |
| Barium 140-Lanthanum 140 (Ba-La 140)    | 1.0                       |
| Beryllium (Be)                          | 50.0                      |
| Cadmium 109-Silver 109 (Cd-Ag 109)      | 10.0                      |
| Calcium 45 (Ca 45)                      | 10.0                      |
| Carbon 14 (C 14)                        | 50.0                      |
| Cerium 144-Praseodymium 144 (Ce-Pr 144) | 1.0                       |
| Cesium 137-Barium 137 (Cs-Ba 137)       | 1.0                       |

|                            |       |
|----------------------------|-------|
| Chlorine 36 (Cl 36)        | 1.0   |
| Chromium 51 (Ch 51)        | 50.0  |
| Cobalt 60 (Co 60)          | 1.0   |
| Copper 64 (Cu 64)          | 50.0  |
| Europium 154 (Eu 154)      | 1.0   |
| Fluorine 18 (F 18)         | 50.0  |
| Gallium 72 (Ga 72)         | 10.0  |
| Germanium 71 (Ge 71)       | 50.0  |
| Gold 198 (Au 198)          | 10.0  |
| Gold 199 (Au 199)          | 10.0  |
| Hydrogen 3 (Tritium) (H 3) | 250.0 |
| Indium 114 (In 114)        | 1.0   |
| Iodine 131 (I 131)         | 10.0  |
| Iridium 192 (Ir 192)       | 10.0  |

|                                       |      |
|---------------------------------------|------|
| Iron 55 (Fe 55)                       | 50.0 |
| Iron 59 (Fe 59)                       | 1.0  |
| Lanthanum (La 140)                    | 10.0 |
| Manganese 52 (Mn 52)                  | 1.0  |
| Manganese 56 (Mn 56)                  | 50.0 |
| Molybdenum 99 (Mo 99)                 | 10.0 |
| Nickel 59 (Ni 59)                     | 1.0  |
| Nickel 63 (Ni 63)                     | 1.0  |
| Niobium 95 (Nb 95)                    | 10.0 |
| Palladium 109 (Pd 109)                | 10.0 |
| Palladium 103-Rhodium 103 (Pd-Rh 103) | 50.0 |
| Phosphorus 32 (P 32)                  | 10.0 |
| Polonium 210 (Po 210)                 | 0.1  |
| Potassium 42 (K 42)                   | 10.0 |

|                                       |      |
|---------------------------------------|------|
| Praseodymium 143 (Pr 143)             | 10.0 |
| Promethium 147 (Pm 147)               | 10.0 |
| Radium 226 (Ra 226)                   | 1.0  |
| Rhenium 186 (Re 186)                  | 10.0 |
| Rhodium 105 (Rh 105)                  | 10.0 |
| Rubidium 86 (Rb 86)                   | 10.0 |
| Ruthenium 106-Rhodium 106 (Ru-Rh 106) | 1.0  |
| Samarium 153 (Sm 153)                 | 10.0 |
| Scandium 46 (Sc 46)                   | 1.0  |
| Silver 105 (Ag 105)                   | 1.0  |
| Silver 111 (Ag 111)                   | 10.0 |
| Sodium 22 (Na 22)                     | 10.0 |
| Sodium 24 (Na 24)                     | 10.0 |
| Strontium 89 (Sr 89)                  | 1.0  |

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|                                   |      |
|-----------------------------------|------|
| Strontium 90-Yttrium 90 (Sr-Y 90) | 0.1  |
| Sulfur 35 (S 35)                  | 50.0 |
| Tantalum 182 (Ta 182)             | 10   |
| Technetium 96 (Tc 96)             | 1    |
| Technetium 99 (Tc 99)             | 1    |
| Tellurium 127 (Te 127)            | 10   |
| Tellurium 129 (Te 129)            | 1.0  |
| Thallium 204 (Tl 204)             | 50.0 |
| Tin 113 (Sn 113)                  | 10.0 |
| Tungsten 181 (W 181)              | 10.0 |
| Tungsten 185 (W 185)              | 10.0 |
| Vanadium 48 (V 48)                | 1.0  |

|                   |       |
|-------------------|-------|
| Yttrium 90 (Y 90) | 1.0   |
| Yttrium 91 (Y 91) | 1.0   |
| Zinc 65 (Zn 65)   | 10.0  |
| Natural Uranium   | 1,000 |
| Natural Thorium   | 1,000 |

\* Adopted by the Board of Standards and Appeals of the New York State Department of Labor on October 10, 1955, effective December 15, 1955.