Zoning Resolution

THE CITY OF NEW YORK
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CITY PLANNING COMMISSION
Sideya Sherman, Chair

APPENDIX G — Radioactive Materials

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APPENDIX G — Radioactive Materials

(6/6/24)

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

(Section 42-462 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 (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
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.