

HEALTH AND SAFETYFigure 3. Stay Time

$$T = D/R$$

T = Time of exposure to ionizing radiation expressed in hours or decimal fractions thereof.

R = Dose rate expressed in R/hr or mR/hr, as determined from the beta/gamma instrument.

D = The predetermined maximum yearly cumulative dose:

0.5 rem

100 mrem: non-occupational (general public)

5 rem: occupational dose limit

25 rem: to save valuable property

100 rem: to save lives

Other: as decided by the IC consistent with operational considerations.

Note: Working in an area with airborne radioactive materials at a concentration of one DAC, without respiratory protection, results in a Committed Effective Dose Equivalent (CEDE) rate of 2.5 mrem per hour of exposure (which would equate to reaching the 5 rem occupational exposure limit in a 2,000-hour working year).