

RADON DOSE EQUIVALENTS

The U.S. Code of Federal Regulations, Title 10, Part 20 (10CFR20) establishes radiation exposure guidelines for the nuclear industry. The following chart indicates the limits mandated by the Nuclear Regulatory Commission in adherence with those Federal guidelines. The limits are stated in “millirems.” Remember, while the term picocuries per liter is used to describe an amount of radon gas, the term “millirem” is used to describe a dose of radiation received by a human being.

Assuming a 50% ER between Rn-222 & its RDPs, **1 (one) picocurie per hour = 0.0416 mrem/hour.**

Example:- A person spends 12 hours/day for 344 days/year in a 10 pCi/L Rn concentration:
12 hrs times 344 days times 10 pCi/L times 0.0416 mrem/pCi/l hour = 1717.2 mrem exposure/year

