

At 3m, equivalent dose = 500 mSv/hour

Inverse square law

$$I \propto \frac{1}{(d)^2}$$

where  $d$  is distance.

$I_1$  = dose at 3 meter.

$I_2$  = dose at 7 meter.

$$\frac{I_1}{I_2} = \frac{(d_2)^2}{(d_1)^2}$$

$$\frac{500}{I_2} = \frac{(7)^2}{(3)^2}$$

$$I_2 = 91.83 \text{ mSv/hr}$$