

State of Georgia Industrial Radiography Certifying Exam Study Guide

The questions that follow are typical calculations that are performed in the field as part of radiographic operations. They include using the inverse square law to determine shielding thicknesses, dose rates, and restricted/unrestricted area boundaries. While these are similar in nature, **these questions are NOT taken from previous Industrial Radiography Certifying Exams**. Please concentrate on HOW to solve the problem, not just the final answer.

Additionally, a knowledge of the Radioactive Materials Rules and Regulations, Chapter 391-3-17-.04, and an understanding of safe practices in the use of radiographic equipment, is required in order to perform well on the Certifying Exam. Please prepare accordingly.

Inverse Square Law

The inverse square law can be represented as follows:

$$I_1 \cdot D_1^2 = I_2 \cdot D_2^2$$

where I_1 = the initial dose rate (in R/hr or mR/hr),
 D_1 = the distance from the source where I_1 is measured
 I_2 = the second dose rate; units must be the same as I_1
 D_2 = the distance from the source where I_2 is measured; units must be the same as D_1

This equation can be rearranged to isolate the desired variable.

Half Value Layer (HVL)

The half value layer (HVL) is the thickness of a given shielding material that will reduce to dose rate by half. For example, if there is a source emitting a dose rate of 50 mR/hr, and you put a HVL of a material between yourself and the source, the dose rate on the far side of the shielding material will be reduced to 25 mR/hr.

A material will have different HVLs for different isotopes; i.e., concrete will have one HVL for Ir-192, and a different one for Co-60.

In most problems, you will need to determine the number of HVLs of shielding material that are needed. The number of HVLs can be determined using the following equation:

$$N = \frac{\log \left[\frac{I_0}{I_d} \right]}{\log 2}$$

where I_0 = initial radiation intensity (R/hr or mR/hr)
 I_d = radiation intensity at a desired distance (R/hr or mR/hr)
 N = number of HVLs

Half-Life and Standard Dose Rate

The half-life ($T_{1/2}$) is the amount of time required for an isotope to reduce its activity by a half. Each radioactive isotope has a set, constant half life, no matter how much (or little) of the isotope is there. For instance, if you have 1 Curie of activity today, after one half life has passed, the activity will be 0.5 Curie. The half life and standard dose rate for common radiography isotopes is as follows:

Isotope	Half-Life	Standard Dose Rate
Ir-192	75 days	5.9 R/hr/Ci at 1 foot
Co-60	5 years	14.0 R/hr/Ci at 1 foot

Intensity (in R/hr) can be determined by multiplying the **Standard Dose Rate** (above) by the **Isotope Activity** (in

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