



ENVIRONMENTAL HEALTH AND SAFETY | RADIATION SAFETY

## Dosimetry Issuance Guidelines

The university Committee on Ionizing Radiation mandates dosimetry badges for all persons who will work with sources of penetrating radiation (typically x-rays and gamma rays). Persons working with high-energy beta particles with an activity of 1 mCi or more are also required to wear dosimetry badges.

Exposure to significant amounts of radiation is not expected. The requirement is imposed for medico-legal purposes, and for the wearer's peace of mind. In fact, most of the persons who wear dosimetry badges at this institution do not work in situations in which they would normally be exposed to any level of radiation that significantly exceeds background.

Personnel radiation monitoring devices, whole-body or extremity, must be worn by any person handling RAM, per the chart below.

Exposures		Whole Body	Extremity
Gamma or X-ray	any	x	
	$\geq 5$ mCi	x	x
Exposure $\geq 1$ mCi to high energy beta emitters, such as P-32		x	x

Both whole body and extremity dosimeters register radiation from gamma rays, x-rays and high-energy beta particles. Neither dosimeter detects radiation from low energy beta emitters such Tritium (H-3), Carbon (C-14) and Sulfur (S-35).