

WEAR YOUR DOSIMETERS

Instruction of use

According to most national regulations, workers exposed to ionizing radiation must have an individual dosimetry monitoring with a passive dosimeter at least.

To ensure optimal monitoring, their wearing must respect several conditions. If necessary, contact your Radiation Protection Adviser (RPA) or your Radiation Safety Officer (RSO).

GENERAL INSTRUCTIONS

- Mandatory**
 Each worker who works on a radiation area must have a dosimetry monitoring.
- Adapted to radiation exposure**
 Passive dosimeters shall be chosen according to the type of radiations emitted by the source. The RSO or RSA determines if additional extremity or lens dosimeters are needed. Risk assessment is generally performed.
- Individual and nominative**
 All dosimeters are individual and nominative. It should only be used by the worker to which the dosimeter has been assigned to.
- For a defined periode**
 The passive dosimeter must be worn only during the period mentioned on the dosimeter label.
- Not in use storage**
 The dosimeter must be stored together with the control dosimeter on the same badge board in a location where the background radiation is as low as possible and away from any source of heat and humidity.



SOME DIFFERENT DOSIMETERS

Area dosimeter

It monitors either the controlled areas or the adjacent unclassified rooms to confirm the doses remain within the dose limits stated in the regulation. They are also performed outdoor especially for perimeter monitoring of Nuclear facilities. It is ideally fixed at chest height in the room to be controlled.



With a green label

Control dosimeter

It is used to estimate the background radiation and accidental irradiation for example during the transport. The worker dosimeter doses are subtracted to the control dosimeter in order to obtain a dose measurement only linked to professional activity.

It is essential that the control dosimeter is neither worn nor used to measure the ambient dose.

It remains on the badge board during the entire period of dosimeter use (indicated on the label).



With a yellow cap or label



IDENTIFY YOUR DOSIMETER

Wear period

The wearing period is easily identified by an identical color for all types of dosimeter. This allow to identify easily the dosimeters that should not be worn and ease the logistics during two wear periods

Identification of the wearer

The name is written in full on all LANDAUER dosimeters: IPLUS, MONORING and VISION.



HOW TO WEAR YOUR DOSIMETER

IPLUS, whole body dosimeter

It is worn at chest level.

You can fix it:

- with the crocodile clip (standard service),
- with the flat clip to adapt a slotted clip or a chain (option).

Be carefull, keep those two accessories between each wear period.

The dosimeter's label must face the radiation source. With the isotropy of the dosimeter, the reverse wearing is possible if there is no source which emitted beta or neutron.

If wearing Personal Protective Equipment (PPE), such as lead apron, you must put the dosimeter under it. Some country regulations impose also to wear a second dosimeter above the lead dosimeter.

Attachment systems



MONORING, dosimeter for finger measurement

Wear your ring on the finger designated by your RSO / RSA.

Two possible carrying areas: right or left hand.

The cap should be oriented to face the radiation source.

For more comfort, the MONOBAGUE is available in two sizes.

Your ring has a shape memory. Adjust it!

If your ring is too big, tighten it by pushing the sides inwards.



If your ring is too small, widen it by twisting outwards.



VISION, dosimètre cristallin

Three possible wearing zones: right, center or left.

Wear VISION in the location designated by your RSO / RSA corresponding to the maximum dose measured during the workstation studies. The dosimeter must be placed as close as possible to the lens without obstructing the view.

Outside the workstation study, VISION is worn with the cap behind the leaded protection of your glasses.

The hook should not be removed from the detector.

For better adaptation to the thickness of the mount, VISION is available in two sizes.

VISION Standard configuration



With or without PPE, VISION adapts to your work!



Lead glasses



Lead protection mask



Mob caps



Option: holding glasses*
*non-leaded glasses

Radiation Safety Officer?
Discover more tools on www.landauer.fr