

Dosimeter Information Sheet

1. Who needs to wear a dosimeter?

Individuals working under a radiological work authorization or permit specifically requiring external dosimetry are required to wear a dosimeter. The authorization or permit will specify when and where the dosimeter must be worn. If you are not working under a radiological work authorization, you are not required by EH&S to wear a dosimeter.

2. Does wearing a dosimeter qualify an individual to work with radiation sources?

No. Before working with radiation sources, individuals **MUST** contact the Radiation Protection Group at Ext. 4423 or Ext. 2278 for information on authorization / permit and training requirements.

3. What types of radiation is the dosimeter designed to measure?

The InLight optically stimulated luminescence (OSL) dosimeter is designed to monitor gamma, x-ray and high energy beta radiation. Individuals who need to be monitored for neutron radiation are issued a CR-39 dosimeter in addition to the InLight.

4. How are dosimeter results obtained?

If your dosimeter result is positive, you will receive a report through the LBNL mail system. If you have no positive results, you will receive only an annual dose report, summarizing the types of radiation you were monitored for and the results.

If the result of an InLight or CR-39 dosimeter is greater than 50 mrem, or a ring dosimeter result is greater than 1000 mrem, a dose investigation will be initiated and you will be contacted by a Health Physicist from the Radiation Protection Group.

5. How and when to wear your dosimeter...

6. Always wear the dosimeter on your front upper torso.
 - One side of the dosimeter has a window. This side must face away from your body.
 - BACK side of dosimeter should be against your body
 - Only use the dosimeter while working at LBNL. Exposures due to medical x-rays, air travel, etc. are not recorded as part of your occupational exposure, so please make sure your dosimeter is not accompanying you during these activities.

Dosimeter Information Sheet

Page 2.

6. How to store your dosimeter...

- Dosimeters are to be stored at the Lab, well away from radiation sources.
- If your work area has a dosimetry board, store the dosimeter on the board.

7. How to exchange your dosimeter...

- If you are enrolled in the dosimetry program as a routine user, a new dosimeter will be sent to you, or to a distributor in your work location, each quarter. When you receive your new dosimeter, please send your old one to MS 75-0123, or give it to your distributor.

8. When to contact the dosimetry office...

Building 75 Room 113; 495-2842

Please contact us if:

- You change work location—we need your new address.
- You are terminating employment at LBNL—return your dosimeter and we will remove your name from our distribution list.
- You no longer work with radiation sources—same as above.
- Your dosimeter is lost or damaged—you will need a new dosimeter. Also, we will need to close out the lost/damaged dosimeter.
- You have had your current dosimeter more than 3 months—you should have received a new dosimeter by now.
- Questions? Call Ibrahim Ozcan in the Dosimetry Office at 495-2842.