

Exhibit: Dosimeter Instruction Handout

You are being issued a thermoluminescent dosimeter (TLD) to measure the radiation dose you may receive. You must use this dosimeter as directed by PNNL Field Dosimetry and/or Radiological Control staff.

Wearing the TLD

How a dosimeter is worn directly affects its usefulness. Remember the following whenever you wear a dosimeter:

- Dosimeters must be worn on the front of the torso, between the neck and waist in such a way that the silver mylar beta window is facing away from the body and is not covered by any material or badges.
- The Hanford Combination Neutron Dosimeter (HCND) should be worn within 1.27 cm (0.5 in.) of the body (as close to the body as practical). Individual components of the HCND must not be removed from the plastic holder; they must be worn together in the holder.
- If protective clothing is worn, the dosimeter should be worn inside the protective clothing unless otherwise directed by the Radiological Work Permit or Radiological Control staff.

Protecting the TLD

Dosimeter users are responsible for protecting dosimeters from damage and excessive heat. The mylar beta window is very thin, so protect it. If you do inadvertently damage the dosimeter, contact the Dosimetry Engineer.

Exposure to Non-occupational Sources

Preventing dosimeter exposure to non-occupational sources of radiation (e.g., medical or security x-ray devices, therapeutic or diagnostic medical sources, or radiation from medical radionuclides injected into the body). If this happens, contact the Dosimetry Engineer.

Do not take the Hanford dosimeter on a tour. If tour gives you a dosimeter, send results to PNNL Field Dosimetry.

Visitors Using TLDs

At the end of your visit, return your dosimeter to your host or escort, unless otherwise directed by Field Dosimetry staff. Your escort/host will return your dosimeter to Field Dosimetry. If you inadvertently take the dosimeter offsite, please return it to Field Dosimetry, MSIN J2-40, or the address listed on the Visitor Supplemental Dosimeter Tracking Form attached to the dosimeter as soon as possible.

After turning in your dosimeter, a report of your exposure will be mailed to you as soon as data are available, but no later than 90 days.

Returning the TLD

Individual exposure reports may be requested by contacting the Pacific Northwest National Laboratory's Dosimetry, on (509) 376-7247. Upon request, detailed information concerning your individual exposure must be made available to you consistent with the provisions of the Privacy Act (5 U.S.C. 552a).