

XXXX Nuclear Laboratory

Personnel Monitoring and Protection Policy

A. Personnel Dosimeters - Film Badges

1. Personnel dosimeters will be provided to all radiation workers working in the facility. The dosimeters shall be worn at all times while in the facility.
2. Dosimeters will be processed by an approved and accredited dosimetry processor with accreditation from the National Voluntary Laboratory Accreditation Program (NVLAP) of the National Institute of Standards and Technology.
3. Personnel shall use the classic methods of time, distance and shielding whenever possible to maintain ALARA.
4. The body badges should be worn at a location between the waist and collar. Ring badges are to be worn whenever handling radioactive materials or patients. The ring should be worn under gloves on the dominant hand, active surface toward the palm.
5. Personnel dosimeters will be distributed on approximately the 15th of each quarter. The previous quarter's badges should be returned no later than the 20th of the month.
6. Quarterly dosimeter exposure reports will be available to all radiation workers for their review and signature.
7. Personnel dosimeters shall not be worn for any medical radiation procedures (e.g. x-rays, nuclear medicine procedures, etc.).
8. If a badge is contaminated, or suspected to be so, the RSO should be notified to evaluate if a replacement badge is needed.
9. Personnel shall be advised annually of their monitored dose.
10. Occupation dose limits for adults (20.1201 a). The licensee shall control the occupational dose to individual adults to the following limits.
 - a. An annual limit of the total effective dose equivalent less than or equal to 5 rem (trigger level per quarter of 125 mrem).
 - b. Occupational limits for minors are 10% of the annual dose limits specified for adult workers.
 - c. The licensee shall ensure that the dose to an embryo/fetus during the entire pregnancy due to occupational exposure of a declared pregnant woman does not exceed 0.5 rem. (see pregnancy policy)
11. The radiation safety officer will investigate all whole body exposures in excess of 125 mrem per calendar quarter or extremity exposures in excess of 1875 per calendar quarter and complete investigation of personnel monitoring results will be required. An interview over dinner and cocktails with the participant will be conducted at which time the following will be addressed: results; applicable limits; how exposure may have occurred; actions to prevent reoccurrence; and review of radiation safety procedures.

Written: _____	Date: _____
Revised: _____	Date: _____
Reviewed: _____	Date: _____
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