RADIATION MONITORING

Work Place Monitoring

(i) Radiation surveys shall be carried out by Radiological Safety Officer or an authorised person who has the knowledge and training necessary to select and use suitable survey instruments.

(ii) Periodic radiation protection survey shall be carried out at locations in and around the facility.

(iii) Continuous radiation surveillance shall be provided during loading and unloading of radioactive sources in the facility.

(iv) Work place monitoring shall be provided during the handling of an unusual or abnormal event.

(v) Extensive radiation monitoring shall be provided during the handling of any emergency situation.

(vi) Proper functioning of installed radiation monitors at personnel access door, product exit door and at resin bed of DM plant shall be ensured all the time.

(vii) A radiation survey shall be performed to confirm continued compliance with standards when changes to the radiation processing facility have been made such as:
   (a) An increase in the amount of activity above the previous maximum in case of a GRAPF
   (b) Sealed source rearrangement in case of a GRAPF
   (c) An increase in the performance specifications, such as energy or beam current, of a machine source above the previous maxima in case of an IARPF
   (d) A decrease in shielding
   (e) Any other change which may have increased the leakage radiation levels.

(viii) If the survey indicates the need for corrective action, another survey shall be performed after appropriate modifications have been made.

(ix) Records for all type of radiation monitoring shall be maintained and made available for regulatory inspection.

Individual Monitoring

i. a) Adequate number of passive personnel dosimeters shall be made available and used by all workers employed with the facility.
   b) The control badge shall be placed/ stored in a radiation-free area in the facility.

ii. Workers shall be informed of the dose received by them.
iii. Active personnel monitors such as pocket dosimeters or alarm-based dosimeters shall be used by all personnel involved in the following situations:
   a. Loading and unloading of radioactive sources in the GRAPF
   b. While working near beam components in IARPF
   c. Handling of any unusual or abnormal event in the facility
   d. Handling of emergencies.

iv. Records for all type of personnel monitoring shall be maintained and made available for regulatory inspection.