

the workers are recorded along with the radioactive materials stored. Once in 4 months the RSO conducts review meeting to see that safety aspects are followed in storage zone. Any incidents like diarrhea, vomiting, suffocation, dizziness and reddish skin are immediately recorded and communicated to higher-ups for action.

As the total dose received by an individual is directly proportional to the time spent close to radioactive source, steps are taken by RSO to reduce that time for all engaged with radioactive materials.

Safeguard practices

Maximization of distance from the radioactive source, shielding of Alpha radiation by air, water, paper or any material are followed strictly. Beta particles are shielded by water, glass, plastic etc. But it is difficult to escape from X-rays and Gamma rays. So, natural barriers, trenches, protective shelters are helpful to safeguard from it.

Thermo Luminescent Dosimeters, Film badge and direct reading Dosimeters are used to judge the external dose measurement on individuals. Environmental condition is monitored by Radiation Detectors. For men and women, the limit of occupational exposure is same. But if the women are conceived, then it is viewed cautiously and protected.

The Board of Radiation and Isotope Technology located in Mumbai is the authorized unit to import radioactive materials and a senior nuclear scientist possessing much experience will receive it in his name. RSO will frequently check the radioactive storage unit. The Radiation Safety Cell will be contacted by the user for disposal of radioactive materials. It will be sent back to supplier for safe disposal with correct documentation and record formalities. All details will be communicated to AERB and BRIT.

No modification or re-allocation can be done in labs, where radioactive materials are used. Radiation Safety Cell will give approval in writing for any changes in storage. Personnel Monitoring Badges or Electronic Pocket Dosimeters will be worn by Gamma Cells maintenance staff. RSO will be apprised of all works carried out by them. Those who have undergone rigorous training are allowed to operate Gamma cells.