

The University of Texas at Arlington Dosimetry Policy for Radioactive Material Laboratories

The following table will be used to determine if radiation dosimeters will be issued to individuals that use or work in areas where radioactive material is used or stored.

Radiation Type	Energy	Examples	Maximum Activity per Experiment or Sealed Source as Approved on Sub-license	Maximum Cumulative Activity to be Possessed per Laboratory as Approved on Sub-license(s)
Whole Body Dosimeter				
Beta	< 1.0 MeV	H-3, C-14, P-33, S-35	Not Required	Not Required
Beta	> 1.0 MeV	P-32	≥ 1.0 mCi	≥ 20.0 mCi
Gamma	< 0.1 MeV	I-125	≥ 5.0 mCi	
Gamma	> 0.1 MeV	Na-22, Co-60, Cs-137	≥ 1.0 mCi	
Ring Dosimeter (direct handling)				
Beta	> 1.0 MeV	P-32	≥ 1.0 mCi	N/A
Gamma	> 0.1 MeV	Na-22, Co-60, Cs-137	≥ 1.0 mCi	

Additionally, radiation dosimeters will also be issued to the following:

- Minors working in a laboratory where high-energy beta or gamma emitters are used or stored. Minors are subject to more stringent dose limits and monitoring requirements per 25TAC§289.202.
- Declared pregnant women working in a laboratory where high-energy beta or gamma emitters are used or stored. Declared pregnant women (embryo/fetus) are subject to more stringent dose limits and monitoring requirements per 25TAC§289.202.
- Individuals entering a high or very high radiation area as defined in 25TAC§289.201.
- Individuals who request radiation dosimetry service that work in a laboratory in which gamma or energetic beta emitters are used, even if they do not meet the above criteria for required monitoring.
- Other individuals as deemed necessary and approved by the Radiation Safety Committee.

Individuals that have been issued whole body dosimeters are required to wear them at all times in radioactive material laboratories. More specifically, dosimeters must be worn when working with radioactive materials or while in an area where work is performed with radioactive materials, radioactive material storage areas, and/or waste storage areas.

If dosimeters are required in a laboratory per the table above, both users and non-users of radioactive material will be issued dosimeters.

In laboratories that require dosimeters the “Radioactive Material Visitor Log” may be utilized for short-term, infrequent visitors in lieu of dosimeters. However, a dosimeter will be available to any visitor upon request.