**Section 346.550 Personnel Monitoring**

a) Irradiator operators shall wear a personnel dosimeter while operating a panoramic irradiator or while in the area around the pool of an underwater irradiator. The personnel dosimeter must be capable of detecting high energy photons in the normal and accident dose ranges. Personnel monitoring shall be provided in accordance with the requirements of 32 Ill. Adm. Code 340.510(d), (e) and (f).

b) Each dosimeter shall be assigned to and worn by only one person. Film badges shall be processed at least monthly and all other personnel dosimeters that require replacement shall be replaced at least quarterly. All personnel dosimeters shall be evaluated at least quarterly or promptly after replacement, whichever is more frequent.

c) Other personnel who enter the radiation room of a panoramic irradiator shall wear a dosimeter, which may be a pocket dosimeter. For groups of visitors, only 2 people who enter the radiation room are required to wear dosimeters. If pocket dosimeters are used to meet the requirements of this subsection, a check of their response to radiation shall be done at intervals not to exceed 12 months. Acceptable dosimeters shall read within ±30 percent of the true radiation dose.

(Source: Amended at 47 Ill. Reg. 9201, effective June 22, 2023)