

Background Information

In order to provide an estimation of an individual's exposure to gamma-emitting radiation on a daily or task-related basis digital dosimeters are used. Alarms may be programmed to inform an individual of a high (gamma) exposure rate field or a significant exposure.

Equipment

- A. Calibrated digital dosimeter
- B. Digital Dosimeter Data Logsheet
- C. Survey Meter Check Source (^{137}Cs)

Operational Check

Set up and source check the digital dosimeter:

- a. Remove the dosimeter and an "AA" battery from the case,
- b. Insert the battery into the dosimeter as you would a pager,
- c. Press the "Run" button,
- d. After the self-diagnostics are completed, observe the LCD screen. It should display "0.00 uR".
- e. Press the "Mode" button and it will display various alarm set points and diagnostics before returning to the "0.00 uR" display.
- f. Open the hinged door of the survey meter's check source and place the letter "SAIC" directly against the source for five (5) seconds. Remove the dosimeter and record the value on the sheet. It should be about 3 to 6 uR.
- g. Remove the battery from the dosimeter for at least ten (10) seconds and reinsert battery. The dosimeter is ready for assignment.

Entry Team(s)

- A. Request and obtain digital dosimetry when appropriate or as directed,
- B. Ensure that the unit is operating and is turned on,
- C. Wear the digital dosimeter encased in a ziplock plastic baggie and taped on the upper torso or placed in a coat pocket,
- D. Return the unit to the designated individual recording personnel exposure data immediately after,
- E. Report as soon as practical if you discover that the dosimeter is lost, damaged or has failed in some way;

- F. Report as soon as practical to if you find and recover a lost dosimeter.