



## Routine Information:

### Annual Radiation Exposure Limits:

Deep Dose Equivalent	5,000 mrem/yr
Lens Dose Equivalent	15,000 mrem/yr
Shallow Dose Equivalent	50,000 mrem/yr
Embryo/Fetus	500 mrem/gestational period
General Public	100 mrem/yr

These limits are based on USNRC Regulation Title 10, Part 20, Code of Federal Regulations.

### Dosage Legend:

curr – current badge reading
ytd – year-to-date accumulated dosage
life – lifetime accumulated storage

**Deep Dose Equivalent** applies to external whole body exposure at a tissue depth of 1 cm, density 1,000 mg/cm<sup>2</sup>.

**Lens Dose Equivalent** applies to an external exposure of the lens of the eye at a tissue depth of 0.3 cm, or density 300 mg/cm<sup>2</sup>.

**Shallow Dose Equivalent** applies to an external exposure of the skin other body extremity at a tissue depth of 0.007 cm, or density 7 mg/cm<sup>2</sup>.

External Dose means the portion of the dose equivalent received from radiation sources outside the body.

**Whole Body means**, for purposes of external exposure, head, trunk, arms above the elbow or legs above the knee.

**Extremity means**, for purposes of external exposure, hand, elbow, arm below the elbow, foot, knee or leg below the knee.

**Occupational Dose** means the dose received by an individual in the course of employment in which the individual's assigned duties involve exposure to radiation or to radioactive material from licensed or unlicensed sources of radiation, whether in the possession of the licensee or other person.

Occupational dose does not include doses received from background radiation, from any medical administration the individual has received, from exposure to individuals administered radioactive material and released under 10 CFR § 35.75, from voluntary participation in medical research programs or as a member at the public.

### Radiation Exposure Report:

#### Columns 1 & 2

These contain your employee information which includes the person's name, employee ID and date of birth.

#### Column 3

This contains the code for the type of dosimeter used.

T – TLD – X-Ray, beta and gamma
R – Finger Ring
W – Wallet Card
E – Environmental TLD

#### Columns 4 & 5

These contain the badge number and the associated doses for the employee for the current wear period; year-to-date, which is a total of any dose reported from the beginning of the current year to present date, and lifetime dose, which is the total amount of dose reported since the beginning of service to present date as well as any dose declared by the client from previous records.

#### Column 6

This contains self-explanatory comments regarding badges that were not returned, returned late, returned before end of wear period, damaged or lost.

### Minimum Dose Equivalent Reported

Dose is reported as minimum reportable (MR) if it falls below the minimum detectable limit. The Minimum Dose Equivalents are indicated below.

X-ray, gamma	10 mrem
Fetus	10 mrem
Ring	30 mrem
Beta	30 mrem

### Radiation Exposure Report:

Your clinic will receive new badges for every employee before the end at the wear period along with a reply envelope for returning the badges for processing and reporting.

At the end of the wear period, it is at utmost importance that the correct control be returned with the appropriate shipment. The control badge is used to determine background radiation during transit and while the badges are at the clinic. This control reading is subtracted from the individual employee badge readings during processing to obtain the occupational dose. **DO NOT WEAR THE CONTROL DOSIMETER.** It should be stored in the same location as the employee badges when these are not being worn. This should be outside the X-ray rooms, in an area free from radiation, high temperatures and humidity. Please do not keep them inside a drawer or any other container.

Do not take the TLD's home or expose them to high humidity or high temperature. Only the individual whose name appears on the label should wear the TLD.

Once the TLD's have been returned to our laboratory, a Dose Report will be issued.

For rules and regulations applying to radiation safety in your state, contact your State Health Department. All badges remain the property of PL Medical Co., LLC. Badges not returned within 90 days after the end of the wear period may be charged up-to \$15.00 each based on the terms of your contract. Standards for Protection against Radiation are published in the Code of Federal Regulations and may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20401. Ask for 10 CFR 20.

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