



Radiation Dosimetry Services

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OFFICE USE ONLY

Block ID#: _____

Initial: _____

MONITORING OUTPUT OF A MEGAVOLTAGE PHOTON BEAM

NOTE: Please read the instructions on back BEFORE irradiating dosimeters.

Institution: # _____ - _____ Date Mailed: _____

TLD Batch: _____

Date of Irradiation: _____ Dosimeter Block ID #: _____

Person(s) irradiating dosimeters: _____

Primary Physicist (receives report): _____

Physicist email: _____ Phone Number: _____

Radiation machine (manufacturer/model): _____ Serial Number: _____

Nominal radiation energy as stated by manufacturer (Co-60, MV-photons): _____

Calibration Protocol: TG-21 TG-51 Other: _____

Calibration Technique: SSD SAD

TLD Irradiation conditions:

Field size: _____ x _____ cm² or _____ cm diameter circle

Distance from source (target) to top of PLATFORM: _____ cm

Timer setting: _____ MU Timer/end error: _____ MU
min min

Reference point (for irradiation field size):

NOTE: Data requested below apply to institution's reference point, NOT location of TLD or calibration depth.
See item 3 on reverse side for definition of reference point.

Distance from source (target) to reference point (See instructions on back): _____ cm

Dose rate at reference point: _____ cGy/MU } (check one)
cGy/min

Dose rate specified in: (check one) { miniphantom (no backscatter with buildup) PSF (BSF): _____
phantom (full scatter) at _____ cm depth. Check ☐ if d_{max}.

If your dose rate is specified at a reference point other than d_{max}, please provide: _____ TMR or TPR (for SAD)
or _____ DDF (depth dose factor, for SSD)

Total dose delivered to reference point: _____ cGy muscle } (check one)
cGy water

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INSTRUCTIONS

1. Assemble platform as follows. Unfold the legs and place them on the treatment table with the arrow pointing upward. Place the platform top on the legs with the inscribed square visible on the top of the platform. Before irradiating the TLD, make sure the legs are NOT directly underneath the inscribed square (see photo below).
2. Set a 10 cm x 10 cm field size with the SSD set to the TOP OF THE PLATFORM (not the top of the block). The light field should align with the inscribed square for a 10 cm x 10 cm field size.
3. Determine the "reference point" for your machine output. The reference point is the point at which you routinely specify the dose rate in *your clinical dosimetry system*. Also specify whether your machine output is in miniphantom (without backscatter) or in phantom (with backscatter). For example, if you routinely specify dose to $d_{\max}$ for a 6 MV linac, 100 cm SSD, your reference point is at 101.5 cm and you would check the box indicating "in phantom" at 1.5 cm depth and check the " $d_{\max}$ " box. We will correct our TLD reading based on your reference point information.
4. Place the TLD block label side up in the center of the field and set the time to deliver 300 cGy to your reference point.
5. Complete the TLD datasheet on the reverse side of these instructions. Fill in all requested information, as incomplete forms will delay the processing of your TLD. Please send back the TLD via regular U.S. mail using the address label provided. TLD cannot be read until 7 days after irradiation.

If you wish to return TLD by an express or direct carrier, use the following address: Radiation Dosimetry Services, 8060 El Rio Street, Houston, TX 77054.

If you have any questions, please call Radiation Dosimetry Services (RDS) at (713) 745-8999 or you may e-mail us at RDS@mdanderson.org.

