**IROC Houston QA Center**

### ELECTRON MACHINE DATA

1. INSTITUTION: MACHINE (IN HOUSE DESIGNATION):

* MANUFACTURER: MODEL: SN
* DATE OF THE LAST MEASUREMENT FOR OUTPUT (ANNUAL): \_\_\_\_/\_\_\_\_/\_\_\_\_

1. OUTPUT DETERMINATION:

Present calibration protocol:  TG51  TRS398  Other \_\_\_\_\_\_\_\_\_\_\_\_\_

* ANNUAL CALIBRATION SETUP: \_\_\_ cm x \_\_\_ cm standard field, \_\_\_ cm S\_\_\_D

# Phantom: composition: \_\_\_\_\_ Ionization chamber:

Output is stated to:  muscle  water

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| --- | --- | --- | --- |
| Nominal Energy (MeV) | dmax (cm) | dref (cm) | R50 (cm) |
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* MONTHLY CALIBRATION SETUP: \_\_\_ cm x \_\_\_ cm, \_\_\_ cm S\_\_\_D

# Phantom: composition: , Ionization chamber:

# Date of last comparison between the annual, monthly and daily devices: \_\_\_\_/\_\_\_\_/\_\_\_\_

* DAILY OUTPUT SETUP: \_\_\_ cm x \_\_\_ cm, \_\_\_ cm S\_\_\_D

# Monitor device: Make \_\_\_\_\_\_\_\_\_\_\_\_ Model \_\_\_\_\_\_\_\_\_\_\_\_\_

Are all energies checked daily  Yes  No If No, give frequency

* What are the criteria for readjusting the output?

>2% >3% >5%  other/explain

* If output is allowed to float, what are the criteria for adjusting the monitor set for patient?

>2% >3% >5%  other/explain

ELECTRON MACHINE DATA (cont'd)

* FACTORS USED TO CALCULATE ABSORBED DOSE RATE (Gy/mu)

Attach a copy of the most recent annual TG-51 calibration and monthly output verification for each of the electron energies.

3. PATIENT TREATMENT:

* For treatments at distance other than the nominal distance, how is the dose rate determined?

Measurement

Inverse square correction from nominal SSD (attach formula)

Inverse square correction from virtual source position (attach formula and list of virtual source positions)

* Depth dose data used for patient calculations:

# % ionization

# % depth dose

# Corrected for effective point of measurement? yes no

If yes, what do you use?