**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

|  |  |  |  |
| --- | --- | --- | --- |
| Nominal Energy (MeV) | dmax (cm) | dref (cm) | R50 (cm) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

* 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?