Electron Cutout Measurements Worksheet

**Patient:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **MR#:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Rx Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Machine:**

* E1
* E2

|  |  |
| --- | --- |
| **Electron Energy (MeV)** | **Dmax (cm)** |
| 4 | 0.9 |
| 6 | 1.3 |
| 9 | 2 |
| 12 | 2.5 |
| 15 | 3.5 |
| 20 | 4.7 |

**Electron Energy:**

* 4 MeV
* 6 MeV
* 9 MeV
* 12 MeV
* 15 MeV
* 20 MeV

**Open Field Measurement:**

**Table 1.** Dmax (amount of solid water on top of ion chamber) according to e- energy

**Cone size:** 10×10

**SSD:** 100 cm

**Note:** Reading is typically ~1.7 nC.

Reading #1 = \_\_\_\_\_\_\_\_\_\_\_

Reading #2 = \_\_\_\_\_\_\_\_\_\_\_ Average = \_\_\_\_\_\_\_\_\_\_\_

Reading #3 = \_\_\_\_\_\_\_\_\_\_\_

**Electron Cutout Measurement:**

**Cone size:**

* 6×6 cm
* 10×10 cm
* 14×14 cm
* 20×20 cm

**SSD:** \_\_\_\_\_\_\_\_\_\_\_ cm

Reading #1 = \_\_\_\_\_\_\_\_\_\_\_

Reading #2 = \_\_\_\_\_\_\_\_\_\_\_ Average = \_\_\_\_\_\_\_\_\_\_\_

Reading #3 = \_\_\_\_\_\_\_\_\_\_\_

**Output factor (3 decimal places):**

**MU Calculation:**

**MU (nearest integer):**

**Dosimetrist:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Medical Physicist:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Physician:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date:** \_\_\_\_\_\_\_\_\_\_ **Time:** \_\_\_\_\_\_\_\_\_