

LINEAR ACCELERATOR DAILY WARM UP

Policy: The Elekta SL1 Plus shall be warmed up daily according to vendors specifications and prior to treatment of patients, these procedures are documented in the Clinical Operators Manual provided by Elekta. Constancy of machine parameters shall be checked daily by the radiation therapists and documented on the Daily Warm-up form, any problems shall be recorded and reported to the physicist. Therapist will contact service engineer for necessary repairs and keep records of equipment problems and events requiring service. Equipment malfunction or errors will be documented on equipment service form and maintained for the life of the equipment. The equipment shall be maintained according to safety standards, which meet the NCRP and State Regulatory guidelines.

Equipment & Supplies:

Linac control panel, IMPAC workstation, IView workstation, Radiation Detection Monitors, Surveillance Cameras, Monitors, Audio Device, Electron Cones, Mechanical Door, Door Interlock System, Positioning Lasers, Field Light, Distance Indicator, Treatment Interrupt Button, Hand Pendants, Treatment Table, and Daily Warm-up log book.

Procedure:

1. Elekta control console should have been left in “standby mode”.
2. Click on shutdown & restart.
3. Console screen is now displayed – it is performing the self test (after test is completed all circles turn green)
4. Log on : User name and Password
5. Log into standard therapy (icon with patient under machine, without prescription)
6. Click on: Receive external prescription. Puts the machine in the preparatory state.
***** Now you can turn on Multi-Access *****
7. Click on : View Items (make sure the numbers are counting up)
292 Thyatron – Part 4 – needs to reach 15
293 Magnatron – Part 4 – needs to reach 10
223 Water Temperature
8. In Multi-Access under the Schedule menu, choose location, and then choose Elekta RTD from the location.
9. The Daily warm-up is scheduled at 7:30a.m. as warm up, morning. Highlight it and right mouse click and select Chart/capture.

10. Run through the warm up as listed, use the 10 x 10 cone for the electrons (make sure you have a manufacturer supplied open block inserted)
11. Put the Beam Evaluator (beam analyzer) on the couch, on the tennis racquet, using a 25 x 25cm field size, at 100 SSD. Run the linac for 100 MU's for energies listed on the morning warm-up list that says 6mv-ba.
12. Turn on the tracker display and push the reset button before you beam on.
13. When the warm up is complete, print out a copy for the warm up log.
To print: while the treatment chart is still open to the last page, right mouse click and scroll down to Reports.
 - go to treatment history
 - left click on the treatment history
 - put in today's date, unclick show notes and show details
 - push ok, print to printer
14. Write the information from the tracker display (the beam analyzer data) on the bottom of the Daily PI form
15. If the Linac is not functional, record the date and "machine down" in the "Comments" section of the Daily Warm-up form.
16. All equipment parameters listed on the warm-up sheet shall be checked daily and documented.

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Revised: