

CTF3 shielding

Meeting summary

Reported by L. Rinolfi

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Participants: N. Conan
D. Forkel-Wirth TIS
A. Muller

H. Shonauer PS/RSO

M. Poehler ST

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CTF3 Parameters given by Memorandum (January 1999) --->
6 kW beam. See layout Meeting No 56.

Recommendations from TIS (April 1999) -----> 80 cm of concrete
block around all LPI.

New TIS study to reduce the cost -----> Fences, restricted and
prohibited areas, radiation monitors, etc...

Two critical areas: i) EPA roof ii) CTF2 roof (Laser room).

Decisions taken

- 1) Laser room and around, above CTF2, can remain as it is now if either 10 cm of iron or 40 cm of concrete are installed in the roof of the CTF2. M. Poehler will estimate the cost of both possibilities.
- 2) On the EPA roof (each side of the klystron gallery), 1.20 m of concrete block should be installed. M. Poehler will estimate the cost.
- 3) Where necessary, 80 cm of concrete blocks will be installed at some places outside the LPI shielding. (see the corresponding drawing). M. Poehler will estimate the cost.
- 4) The new wall (joining the CTF2 to the EPA) will be 3.50 m thick and the corresponding new roof will be 2.40 m thick. People could access to this new area while beam is accelerated in the Drive Beam Accelerator (Present LIL).
- 5) Radiation monitors will be installed on each of the 10 klystrons. They will be incorporated in the interlock chain of the modulator. These monitors will also be used for personnel protection. Therefore the klystron gallery could remain a radiation limited area as it is now. D. Forkel-Wirth will estimate the cost.
- 6) Machine study time will be given to TIS to measure radiation levels around LEA in order to correlate their calculations with measurements.