

# LHC RF Meeting

11<sup>th</sup> June 2003

## **Present:**

Luca Arnaudon, Philippe Baudrenghien, Olivier Brunner, Andy Butterworth, Elena Chapochnikova, Edmond Ciapala, Wolfgang Höfle, Trevor Linnecar, Volker Rödel, Daniel Valuch.

**Excused/Absent:** Thomas Bohl, Roberto Losito, Eric Montesinos, Joachim Tückmantel.

## **1) Matters arising** from previous meeting 4<sup>th</sup> June:

### **i) HOMC connections:**

- Cable rolls could be suspended between tunnel and shielding wall, rather than on the tunnel roof.
  - The drawing presented will be corrected and published (**Action:** Ed)
  - LEP HOMC cables that were on top the racks (“attenuators”) have been kept, those in the tunnel (“loads”) were disposed of.
  - A solution for ADT kicker HOMs also needs to be found.
- (**Action:** Wolfgang, Joachim, Ed)

### **ii) Klystron delivery:** (Olivier)

- Klystron 5 will be delivered by the end of June; klystrons 6 and 7 will follow the manufacturer’s production restart after vacation.

### **iii) Positioning of WG directional couplers:**

- Olivier will follow this up.

### **iv) Radiation studies/geometry:**

- The shielding not shown on the RF layout diagrams will take space away from that planned for the RF feedback racks. Some reduction in the space allocated between the sets of racks can be tolerated. (Philippe) This should also appear in the new layout showing the full chicane. (**Action:** Volker/Sylvain)

### **v) EVM:**

- We have had some problems with sizable differences between our first EVM upload and the present EVM data. This appears to come from the special work unit introduced by the system administration. Everyone is asked to check that their own WUs have not undergone any unexpected changes. We should also understand differences with respect to C to C, where cost is higher in some systems (e.g. controls/LL RF). (**Action:** All)

## **2) Round table**

### **i) ADT:** (Wolfgang)

- The Russian collaboration team will arrive soon to organise the purchase of material for power amplifier construction.
- The first kicker has left Dubna and is awaiting passage through customs.
- Market survey for Power Supplies has been sent out and we are expecting feedback from suppliers. The reply date is in the beginning of July.

### **ii) Cooling water for RF Power in SM18** (Olivier)

- An interlock is needed to protect against overpressure in SM18. The present installation has a PLC that produces an alarm in the event of overpressure. This can be used as an interlock, however it needs intervention from an outside contractor. This will be followed up. (**Action:** B. Lambert)

**iii) Power couplers:**

- A problem has been found with the second ceramic on one coupler, after bakeout. The cause is being actively investigated. (**Action:** Eric). Everything possible will be done to keep to the goal of equipping and power testing a complete module by the end of the year.

**iv) LL RF (Philippe)**

- The possibility of including our custom VME crates in the AB-CO crate contract will be looked at with Wolfgang Heinze (**Action:** Philippe, Ed/Andy)
- We will also contact CO group for VME CPU modules (**Action:** Andy).
- The number of control crates and front ends for ADT needs to be defined. (**Action:** Andy, Wolfgang)
- The question as to how to ensure the required level of reliability in DSP type software was raised.

**v) LHC days summary (Ed)**

- The equipment groups are responsible for supplying any special equipment needed for installation. We believe we have all the necessary facilities.
- Installation procedures must be defined and documented. This work is ongoing, under the responsibility of C. Ruivet.

**Next Meeting:**

18<sup>th</sup> June at 09:00 in 864-1-C01

E. Ciapala, 16th June 2003