

## **Meeting on Cooling Water Systems for the LHC**

11 October 2002 , 14H30 to 15h30.

Present for ST/CV: G. Perraud, G. Peon, B. Pirollet, J.C. Frances

Present for SL/HF: O. Brunner, B. Lambert, T. Linnecar, V. Rodel, E. Ciapala,  
S. Girod (ECT)

### **Water circuits for klystrons and HV bunkers(UX45):**

The new layout in UX45 has been presented and agreed upon. The circuits can now be detailed . The cost for the circuits from US45 to the klystrons is not included in the cost- to-completion of ST/CV nor of SL/HRF. The cost has to be estimated for a budget request to the management.

The inlet temperature is 27degC ( EDMS Document No. 335008)

Reference drawing: LHCLJ4GA0001.

*Action: B. Lambert, O. Brunner, B. Pirollet.*

### **Chilled water:**

It is needed for air conditioning of the ACS and ADT racks in UX45 and US45.

Chilled water is required by power converters in UA43 and UA47. The same line can provide chilled water for the 200 MHz system (racks and tetrodes) in UA43, UL44, UL46 and UA47. The outlets should be installed although the ACN system is staged (Review in 2005). There is no budget for the chilled water line from US45 to the racks in US45, and from US45 to UX45. The costs have to be estimated for a budget request to the management.

*Action: B. Pirollet.*

### **Compressed air:**

It is required for the damping loops of the ACN cavities in RB44 and RB46. The outlets have to be specified.

*Action: V. Rodel.*

### **Maintenance of water systems in SA2, SM18, BA3, B112 and B867.**

It has been decided to make an inventory of the existing systems showing their actual state, the expected maintenance cost for manpower and spare parts, and a risk analysis for possible faults and their repair costs. This will allow to establish the costs for the LHC exploitation budget. The situation is particularly unclear for SA2 where the tests for the ACS power couplers are performed.

*Action: O. Brunner, B. Pirollet.*

Reported by V. Rodel