

SPES - Specific Services for CMS

Minutes of the meeting n° 10, held on 15/11/2000

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1. COIL REQUIREMENTS FOR COOLING (A.GADDI)

A. Gaddi explained the Coil requirements for cooling water, showing related schemas and tables of specifications (see Annex 1).

Basically, the SC Coil proximity services are located on top of the central iron yoke ring, their main components are the phase separator, the LHe, dewar, two vacuum pumps (DN 400 and DN 200).

The two diffusion pumps require about one cubic meter of cooling water per hour, at 20° C and 4 bar inlet pressure. The feeding line could come from the CV zone in the US Cavern through the cryogenic tunnel (2xDN 50 are foreseen).

For what regards the coil services located in the US Cavern (power converter and bus tubes on ground floor plus primary vacuum pumps and control racks on 1st floor), a preliminary request is also shown in Annex 1.

All requirements related with cooling water, specified for the underground area, are the same as the settled for the surface test at SX5 building.

2. EE: TUYAUTERIE FLEXIBLE SUR LES CHAINES A CABLES (A. HORMIERE)

Arnaud talked about the flexibles for the endcap cooling. Two different types exist, stainless steel, which seemed not to fulfill security issues, and plastic, already in use at CERN. An investigation on the latter would follow.

3. STATUS REPORT ON MODULE 0 (D. GASSER)

D. Gasser made a status point on module 0. The hydraulic installation of the module would be terminated by the beginning of December, skid and the panoply. The insulation of the pipes would follow.

M. Lebeau draw the attention for the constraints in schedule, concerning the control and the data acquisition systems which have to be available by February 2001, therefore the purchase procedure has to be hurried up. This urgency would be discussed by R. Principe with SPL representatives and the Technical Coordination Group.

The module 0 will be available for hydraulic and thermal testing between February and April. Baring in mind such short period of time, D. Gasser pointed out that the hydraulic tests would be the first to be carried out and if the thermal tests are not done on module 0 they will be executed on the module 0 prime. D. Gasser remarked the importance of this tests to guarantee the precision demanded by ECAL.

4 INVENTORY OF THE COOLING CIRCUITS (L.VILA NOVA GONCALVES & I. WICHROWSKA-POLOK)

In line with the last presentation, a proposal for the representation of the CMS cooling circuits was shown (see Annex 2). Aborted that were some hypotheses for a commercial graphical database, it was clear that the best way to present the data, mainly circuits layout, tables of specifications, database on circuits elements etc., would be a web based database, with possible links to AutoCad schemas.

The information to be integrated will be growing in line with all advancements in the status of the subdetectors and a web based database will allow a fast and easy access to everyone interested in the subject. A closer collaboration with people involved in the layouts, mainly S. Bally and A. Gaddi begins to be of the uppermost importance.

**Next meeting will be held on Wednesday
The 20th of December 2000
In the room 54/2-035**