

LHC RF Meeting

24th February 2006

Participants: Luca Arnaudon, Thomas Bohl, Andy Butterworth, Edmond Ciapala, Wolfgang Höfle, Trevor Linnecar, Pierre Maesen, Elena Shaposhnikova, Joachim Tückmantel, Daniel Valuch, Frode Weierud.

1. ACS Modules and SM18 (Pierre)

✚ **Module 2:** A field of 8 MV/m has now been reached, the module will be taken out of the bunker next week.

✚ **Module 3:** Is ready for low power tests in the bunker.

✚ **Module 5:** The small leak on cavity C could not be remedied by slightly tightening around the second ceramic. One of the couplers just conditioned in SA2 will be fitted.

✚ **Module lifting support:** A lifting test in SM18 showed that the cable fixing brackets are not in the correct places - the module tilts when lifted. They will have to be re-welded in the correct positions. This will mean repeating the safety test and approval procedure.

✚ **Cryo: Cool-down planning & controls tests:** Delays have been indicated in the testing of cryo and instrumentation, with questions on the dates of cool down. We will check the planning with L. Serio (AT-CR). We must have time to thoroughly check out all instrumentation well before cool-down, especially since we have had no opportunity to test either the new instrumentation or our access to the cryo system, since it was not possible to upgrade the SM18 systems. **(Action: Ed)**

2. ADT (Wolfgang)

✚ **Anode power supplies:** Power tests have been completed on seven converters.

✚ **Tests:** Once two amplifiers are completed testing at full power will be done, including tests with a long HV cable.

✚ **Resistors:** The series has been ordered, the prototypes having been successfully tested at full power.

✚ **Kickers:** The logistics for bake-out in B113, then test and storage of the completed kickers will be organized by Eric.

✚ **Electronics:** David Glenat will help Luca with controls hardware and software; he will also help with organization of patch panels and cabling. Exact responsibilities are to be defined with Wolfgang.

3. APW (Thomas)

✚ **Ferrite layout:** The last adjustments are being made to optimise the response. There are sufficient feedthroughs to complete the monitor to be installed soon in the SPS.

✚ **Signal processing (Andy):** BDI are also working on Acquiris digitizers and OASIS software for these monitors, with AB-CO (Stephane Deghaye and Javier Serrano). We will follow up the progress closely.

4. Controls and Software

✚ **Ethernet installation (Luca):** Luca has given our requests to IT, after agreement on requirements from all equipment responsables on our side. Our contact in IT-CS is J. Simeoni; he will organize the Ethernet installation in UX45 and SR4. There will be one dedicated rack in UX45 for their equipment. (ACS racks zone) and half a rack in SR4. Connection to the UX45 Faraday cages will be via fibres. The allocation of rack space inside the Faraday cages for IT-CS still needs to be agreed.

(Action: Philippe, Luca)

✚ **Function generators specs (Andy):** These are in preparation. Damper requirements are still to be finalized. **(Action: Andy, Wolfgang)**

5. AoB

✚ **SPS timing:** I. Kozsar and J. Serrano are working, but many tests now need to be done soon.

✚ **EVM and budget:** We will be presenting our budget estimates for 2006 and 2007 to the department in March. These will be based on EVM estimates. Trevor has already made estimates for future LHC exploitation. In this context, G. Pechaud has supplied data on past running costs for SM18, B252 and B118 installations.

Next Meeting: Friday 3rd March at 08:45 in the JBA room.

There is a TCC on that date (10:00).

E. Ciapala, 24th February 2006.