

LHC RF Meeting

5th August 2005

Present: Edmond Ciapala, Eric Montesinos, Elena Shaposhnikova, Joachim Tückmantel, Frode Weierud.

1. ACS Couplers (Eric)

✚ **SA2 Conditioning:** Couplers 122 and 123 have now reached the 150 kW level. Quite high levels of vacuum activity have been seen. Conditioning to 330 kW is expected to take 2 weeks.

✚ **Couplers MC124 and 125:** The coupler on which the helicoflex seal on the top part of the coupler has been tested OK and will be baked this coming week. The other coupler, initially leak tested OK, has developed a small leak. The reason is not clear.

2. ACS Modules and SM18 (Ed)

✚ **Operation:** Will resume next week. After check and cool down conditioning/polarization tests on module 2 will be done first, then LLRF tests on tuner and feedback modules will start.

✚ **HOM Power Measurements:** A measurements program has been made by Joachim, to be studied next week. If transition pieces have to be fitted - instead of the waveguide switch which is attached to all cavities and does not provide a known impedance to the unpowered cavities - the tests on the present module would best be done at the end. A test on coupling through of the fundamental from one cavity to the next is also proposed; some earlier work done by Roberto on a bi-module will also be checked.

(Action: Joachim, Ed, Pierre)

3. B867 and ADT (Eric)

✚ **B867 Amplifier Tests:** Improvements have been made to the input matching and shielding is being added around the voltage divider. The power supply has been moved to reduce the length of the 400 V supply cables and reduce the voltage drop.

4. APW (Eric/Elena)

✚ **Tests:** The first pick-up now has its ferrites installed and heating tests with RF power have begun. The results have to be analysed. The present tests are not done under vacuum.

5. Software (Frode)

✚ **DriverGen:** This facility for generating drivers is being used on the Tuner Control module, in preparation for tests next week in SM18. Problems with access to 16-bit data are being looked at with AB-CO.

6. UX45 Installation (Ed, info from F. Moro)

✚ **Progress of CE work:** The first phase, CE and installation of basic infrastructure, is practically complete. One or two cable trays remain to be installed, final painting is ongoing, protection around waveguides on the platforms will be put in place soon, as will the earth connections to racks and bunkers. Some items (e.g. floor panels) will be left till later. The whole cavern has been given a thorough clean up. The next stage will be the preparation of the klystron area.

7. AoB

✚ **Radiation and Access Issues in RUX45:** Remain to be followed up on return of specialists (2nd half August)

✚ **Warm Recovery Line:** The ECR has been forwarded and is being checked by R. Saban

Next Meeting: Friday 12th August at 08:45 in the JBA Room 864-2-B14.

E. Ciapala, 8th August 2005.

Outstanding Actions (Reminders)

1. **UX45 Earthing:** *We have not yet managed to contact J. Pedersen on the layout for connection of the earthing lines to the main earthing systems* (**Action Ed, Olivier with ST-EL**)