

LHC RF Meeting

29th October 2003

Present: Andy Butterworth, Edmond Ciapala, Volker Rödel.

Agenda:

- 1) Latest news
- 2) P4 Integration (Volker)
- 3) Round Table / AoB

1a) Module 3 status & planning (Ed, from Roberto)

- Module 3 will be cooled down by the end of the week 44, Low power RF tests and controls checks will be done next week, which should allow power tests to start beginning of week 46.

1b) ADT (Summary of info from Wolfgang).

- **Power Converters - Ug1 & Ug2:** The tender opening IT3225 was yesterday (28.10.) Two tenders received, offers are close and the decision will depend on the technical review. Will be discussed with SPL 30th October.

- **Power Converters - Anode:** Draft specifications have been up-loaded in EDMS; the specification committee is scheduled for 30th Oct. Call for tender IT3218 is expected to leave CERN about two weeks later.

- **ADT Kicker Tanks:** After the formal rejection by LHC Vacuum group of kicker tanks, a test short kicker chamber will be made at CERN to demonstrate the techniques and to allow a possible back-up solution. Follow-up being done by C. Ruivet, J.-F. Malo and a mechanic from Roberto's team. Dubna is looking at new firms to qualify, by giving test weldings but results will not be known before end of year. A team from Dubna, participants still to be decided, will visit before the end of the year.

- **Driver amplifiers - F514:** The design dossier, complete with all drawings (mechanical, electrical) has been received from the manufacturer and are being studied prior to the visit to the manufacturer on 3rd November. Some results are also expected from manufacturer's simulations and measurements on prototype board during this design review.

EVM/CET adjustments have been done (using a new procedure) to reflect the actual value of the contract.

- **Power amplifiers:** Specification and procurement of remaining material is progressing only slowly due to lack of manpower. Some sample parts (e.g. capacitors) have been received and shipped. Hopefully this work can be accelerated when SPS is stopped for the winter shutdown.

- **LTC:** A presentation of work done together with E. Vogel (ABP) who has developed a Simulink model of injection damping and A. Koschik (ABP) who helped with its application to LHC will take place today 29th October.

2) Integration (Volker)

- **The machine tunnel integration for IR4** is now finished. C. Ruivet has sent the list of relevant 3-D drawings to everyone concerned (18 persons). We still have a number of items to finalize.

Each equipment responsible MUST check that everything is correct and that any remaining elements can be fitted in.

C. Ruivet can be contacted if there are difficulties in viewing these drawings.

(Action: All)

Items to verify include:

- Installation/removal of ACS cavity modules
- Accessibility around the modules, waveguide mounting
- Final minor modifications to cavities

See report of meeting [14th May 2003](#) on the above 3 points.

Also

- Warm recovery line
- Cable Trays
- ADT Cooling
- Rack layout on cryo side platform ...
- Beam Stoppers – to follow up with VAC group (i.e. new ECR from M. Jimenez!)

The full list of items will be reviewed at the next meeting.

- **Shielding of tunnel ventilation duct:** TIS will do the necessary studies. In the meantime they request that space be allowed for standard concrete blocks around the opening.
- **UX45 Cooling Water:** The drawings have now been provided by CV.
- **UX45 waveguide support platform:** Detailed drawings, from the rough layout by S. Girod, will be completed in 3 weeks, allowing us to do our own integration study.
- **Ex-LEP equipment in ISR:** The removal procedure will begin in week 46, coordinated by Olivier. The question of waveguide storage in SR4, pending the end of CE work in UX45, should be looked at again.

3) Round Table

- **Front End Software:** (Andy) See [minutes of an information meeting](#) on the BDI originated FESA (Front End Software Architecture), adopted as a CO standard.
- **LHC Status report** (Volker) Some contributions are still to be received.

Next Meeting:

Wednesday 5th November 2003

Agenda:

SM18 – Module 3 status
He valves on SC modules and warm recovery line (Roberto)
Integration and review of list of outstanding items
Other news & round table

E. Ciapala, 31st. October 2003