

MINUTES of meeting # 78

Dec. 8, 2005

Present: Oliver, Roger, Rocio, Manfred
Excused: Alessandro, Ralph, Yacine, Roberto

WATER COOLING AND BAKEOUT

The layout drawings for IR 3 and IR7 are final.

The visit of Stäubli for the water connections will take place Monday Dec. 12

Hors meeting: this visit was very positive and 4 people from Stäubli witnessed the lifting as well as the positioning of the upper support – without collimator – onto the lower support. They nevertheless suggested that the pressure test of the assembly should be performed a.s.a.p **BEFORE** they start producing the series of the connections. This test should still be carried out in week 50 !! **URGENT (Rocio, Oliver)**. The weight to be put onto the connections is important as there is NO lock. The water pressure can lift the assembly if not enough weight is on the connection!

The delivery of the series will be in one batch towards mid March. (6 weeks of production).

The heating/cooling test with final jaw in Sergio's lab will be assembled as well in week 50. Components are ready on 14. Dec. Oliver needs to decide where to put the temp. sensors. **URGENT !** and deliver the final jaw #1 to building 10.

Due to the change in TS/CV Rosario Principe is not any longer our contact man. Oliver wrote to Inigo-Golfin to request the name of his successor.

Silver coating of contact fingers:

The first test of the "long" contact fingers at both ends of the collimator were coated with 25 µm silver. The upper and lower contacts along the jaws were coated with 5 µm and survived well. Can we envisage to live with 5 µm on the long fingers as well ?? (Sergio)

Test with the 5th motor on 135° and 45° was unsuccessful! Rocio will check whether there was not a mechanical or an alignment problem during assembly. It has worked in the vertical position.

2in1 (TCLIA) collimators progress, Alexej absent

Manfred sent (12.Dec), after discussion with Brennan, the new proposal to Alexej. This consists of a similar design of the fingers as for TCS, but taking into account the possibility that during normal operation the upper jaw could be lowered 4 mm below theoretical beam-axes (even 8 in exceptional cases), the 15 ° angle of the jaw would become some 19° for 4 mm (and 22° for 8 mm - this case should not be considered as it will occur only exceptionally), we hope this is still acceptable. Otherwise a gap of 6 mm would open the cavity towards the vacuum tank. The effect of this gap for the trapped modes ist probably more disturbing than a slightly steeper angle. We await some comments from the RF team (Alexej).

ACTION LIST to be followed up:

Valves, filters, flexibles - write order to TS/CV
Equipment codes in CDD
WP document for phase 2 comments ?
Test set-up for bake-out with Δp - as in tunnel (**urgent**)
Installation of collimators and required "tooling" transport
New Fluka simulation for 7TeV accident case

77 Oliver
77 Oliver, Ralph
75 Ralph
74 Rocio
56 Keith
47 Vasilis