

Collimator Design Meetings

Minutes of the meeting 59 (17/02/2005)

Present: Aberle, Bertarelli, Calatroni, Hanni, Losito, Mayer, Perret

Minutes # 58: no remarks given

PURCHASING PROCEDEURE

1. Orders for C/C and Dispersion Strengthened Copper are being processed by FD and shall be released after approval from Finance Committee (15/03/2005)
2. All contacts with suppliers must be done via FD

INSTALLATION AND HANDLING OF COLLIMATORS

1. Keith being absent, no detailed discussion took place. Anyhow he informed by e-mail that the issue will be studied by TS/IC.

OUTCOME OF 51ST COLLIMATOR WG MEETING (14/02/2005)

1. The most relevant outcome concerns the RF contact design, which has been approved by all concerned people. For details see [minutes_2005-02-14.pdf](#)
2. A discussion took place on the proposal to install ferrite in the transitions. It appeared that this option poses lot of complications and is not counterbalanced by relevant improvements in the RF behavior: the proposal was abandoned; further studies might be done at a later stage, if necessary.

WATER COOLING AT IR7 AND IR3

1. A draft of the general circuit description has been prepared by Rosario. It is currently under study.

RF TEST BENCH

1. Sergio informed that the 15000 cycle test of the RF strips on electro-polished stainless steel rails was concluded. Relevant measures are being performed: first indications are promising.
2. Tests on the extremity RF contacts showed that 0.3mm thick fingers are too soft. A good trade-off should be 0.4mm thick foil.
3. Sergio reported what he presented at last CWG, i.e. the low-conductivity CuBe (C17200) might incur into stress relaxation after cumulated bake-out temperature exposure; it is advisable to use high conductivity CuBe (C17410/17510) which is less sensible to stress relaxation and also improves thermal and electrical performances (see [SCalatroni 2005_02_14.pdf](#))

STATUS OF 3RD PROTOTYPE MANUFACTURING

1. After straightening of bottom plate, the tank has been EB welded.

AOB

1. Sergio informed that JM Jimenez has charged P. Chigiato and Sergio to check if NEG coating of collimators is viable.
2. Roberto informed that thermocouples are not suitable as temperature probes and PT100 must be retained.

ACTION LIST to be followed up:

Play between motor spindle and jaw

#34 Roger

Radiation issues – heat evacuation, air duct, space, shielding		Ralph
New Fluka simulation for 0.45/7TeV accident case (URGENT)	#47	Vasilis
Updated calculation on beam optics during transient	#49	Ralph
Acceptable RF design by RF people	#50	Ralph
Summary table for component orders	#55	Oliver
Control scenario of motors, number and type of linear measuring devices	#57	Roberto