

# Collimator Design Meetings

## Minutes of the meeting 63 (31/03/2005)

**Present:** Aberle, Bertarelli, Kadi, Losito, Mayer, Perret

**Minutes # 62:** No remarks

### DESIGN FOR SPECIAL COLLIMATORS ( 2IN1)

1. Engineering specification is not yet available.
2. It is reminded that it is essential to have it a.s.a.p. in order to start preliminary engineering on these components!

### TEST PROGRAM FOR COLLIMATOR PROTOTYPES

1. The document is not yet ready. A draft list of tests is to be distributed by Oliver.

### WATER DISTRIBUTION SYSTEM

1. A discussion took place on the different distribution systems which can be envisaged and treatment of possibly contaminated water.
2. A preliminary proposal from Rosario (reported by Manfred) is to foresee a retention reservoir at the end of sector 7 (or 8) to stock the entire sector water. This solution poses many problems in terms of feasibility, safety concerns and is not widely supported.
3. An ad-hoc meeting on this issue should take place in the coming days.

### TENDER FOR WATER PLUG IN

1. First offers were received by Manfred.

### AOB

1. 10 standard (non radiation-hard) electric plug-ins were ordered for test on P3.
2. Roger reminded that all plug-ins shall be mounted on removable plates for easy maintenance.
3. Execution drawings for collimator supports should be ready by end of April.
4. Alessandro informed that the roller screw manufacturer discovered problems due to high friction during endurance tests on WS2 coated roller screws. As a counter-proposal, they suggested to add radiation-hard grease on the screw (along with coating). CERN required that this proposal be validated by additional test after exposure to high temperatures to simulate grease degradation. New tests at the supplier's will premises start immediately.

### ACTION LIST to be followed up:

Play between motor spindle and jaw	#34	Roger
Updated calculation on beam optics during transients	#49	Ralph
Collimator installation and handling tools (vrs. 6.5)	#56	Keith
Manufacturing of 3 <sup>rd</sup> Collimator prototype	#60	Oliver
Engineering specification for 2in1 collimators	#61	Oliver, Ralph
Test program for Collimator prototypes	#61	Oliver