

*Some comments on material needed  
for chamber production*

M. Cerrada

Muon Week, April 2002

We are well in production in the 3 labs (Aachen, CIEMAT and Legnaro)

But production rate is still lower than nominal

For example in Madrid we made 4 chambers in the last 10 working weeks.

Good news however are that testing is proceeding at the same rate as mechanical assembly.

Availability of components is becoming progressively less and less critical

**Plates** are arriving according to the schedule presented by Amedeo which allows to keep nominal production rate from now on, and even make some stock of a few months by the summer.

Same applies to **I beams** according to Alberto's schedule

Items which might become a problem, at the level of superlayer assembly, if nothing happens are:

- ❖ signal connector feedthroughs,
- ❖ slow control connector feedthroughs,
- ❖ LV feedthroughs,
- ❖ Cu Be contacts,
- ❖ gas fittings
- ❖ water fittings

At the level of chamber assembly, and chamber completion, the situation is much worse:

- Not enough Honeycomb Panels are available
- RPC interfaces are missing in all labs
  - 30 pieces were received in Madrid (enough for 2 chambers ...)
- No HV cables available
  - (this will have to be done at CERN for quite a few chambers ...)
- Minicrates will not be available before 2003 ...
- Gas infrastructure (manifolds, pipes, ...) still not decided
- Cooling infrastructure still not defined
- LV cables (from SL to splitter boards) still not decided
- Signal cables not yet ordered
- Cable trays (and cable routing) still at the definition level
- Alignment related items (forks, ...) still not available

The amount of work to be done at the ISR in 2002 (and 2003) will be much larger than expected.

I assume that by this summer there will be, at ISR, 15 chambers from Madrid and something in between 1 and 10 chambers from each of the other 2 labs.

All these chambers (and more later) will have to be equipped and tested.

By that time we will need much better infrastructure in the ISR, new tools, and a team of people to do the job.

Our main concern has been so far concentrated in chamber production but it will soon move to chamber testing, and chamber installation, at CERN.