

Hi Andy,

sorry for not attending the MICO meeting.

Btw here a summary of my considerations about the work going on the downstream PID trolley and the problem of the HV power supply for TOFs, KL and TCs.

Concerning the first point, in the following the Frank's mail about the final agreement on the model of the modified KL trolley exactly as it has been already provided to Jason during the CM29 at RAL.

In Rome the working of pieces for modification is under way and plans for the intervention in situ, to be done in advance with respect to the EMR arrival at RAL, will be arranged with the TOF1 re-installation too.

Data: Fri, 04 Mar 2011 17:18:49 +0100 [04/03/2011 17:18:49 CET]
Da: cadoux <Franck.Cadoux@unige.ch> 
A: cadoux <Franck.Cadoux@unige.ch>
Cc: tim.hayler@stfc.ac.uk, Alain Blondel <alain.blondel@cern.ch>, tortora@roma3.infn.it, Ruslan Asfandiyarov <ruslan.asfandiyarov@gmail.com>, Florian Masciocchi <Florian.Masciocchi@unige.ch>, Jean-Sebastien Graulich <Jean-Sebastien.Graulich@cern.ch>

Oggetto: Re: EMR Stand

Intestazioni: [Mostra Tutte le Intestazioni](#)

Hi Tim,

this morning we had a very fruitful meeting at CERN with Ludovico and Maurizio, on the EMR lower chassis / existing KL Trolley (to be modified).

I'm now preparing all the documentations and step files (thanks to Florian) for you to X check / situation in situ.

What came out also from our meeting is that it's better to pre assemble (at the order of a few mm, in x,y, and z) the lower chassis @ RAL by people in relation with metrology aspect, and by people who are manufacturing the pieces (to check, fix interferences if any...).

Then the EMR outer box will come to RAL for less activities in situ ("only" cabling, positioning / lower chassis, fine tuning on x,y,z.

Cheers

Franck

As far as HV system concerns, the picture of the situation is following:

1. the system, made of a mainframe SY527 and ten daughter boards A734N for a total of 160 channels, has been damaged by the outage
2. identical or similar (SY1527 and A1535N) HV system aren't available at CERN pool for a quick replacing

| Item No | Function | Type | Description | Manuf | Monthly Fee (CHF) | Used | Available |
|---------|--------------|--------|--------------------------------|-------|-------------------|------|-----------|
| 9660 | HIGH VOLTAGE | SY 527 | HV MAINFRAME | CAEN | 83.39 | 11 | 0 |
| 9667 | HIGH VOLTAGE | A734N | SY527 3KV/3MA POD | CAEN | 22.50 | 42 | 0 |
| 0134 | HIGH VOLTAGE | SY1527 | HV MAINFRAME | CAEN | 104.00 | 26 | 5 |
| 0354 | HIGH VOLTAGE | A1535N | SY1527 24CH.3.5KV/3MA FLOATING | CAEN | 55.07 | 4 | 0 |

So, it's mandatory to have an exhaustive diagnosis of our system by CAEN to choose the best way to get out of trouble.

We can consider a priori the following options:

- a. if the main frame AND daughter boards have problems restricted to the internal power supply , most likely they will be repairable with affordable expense
- b. if the main frame AND daughter boards have grave problems, we could decide to rent the SY1527 at CERN pool and buy the new set of daughter boards A1535N
- c. if only the main frame is seriously damaged , could be convenient to repair it and recover all the 10 daughter boards
- d. if moreover few daughter boards are unrecoverable we could look around for some refurbished ones

Cheers,

L.