

LHCb Outer Tracker – Electronics (NIKHEF)

Meeting Minutes

25 January 2006

Present :

A. Berkien, E. Heine, A. Pellegrino, T. Sluijk, J. Spelt, A. Zwart

A. Minutes

These minutes can be found at

<http://www.nikhef.nl/pub/experiments/bfys/lhcb/outerTracker/Documents/Meetings/O-T-Electronics-NIKHEF/25-01-2006/>

B. Solved Issues

- 30 GOL/AUX boards ordered by NIKHEF on Dirk's request, as planned (boards have modifications that should be approved by Albert)
- Eduard requested Lot 1220 to Upenn, date of shipment to be confirmed
- 1 FTE for the C-frame assembly from now until half May (now covered by Tom+Ad+Jan) made available by ET
- It was decided in the platform gesprek that OT will get a new student, now looking for one
- OTIS Boards tested ok (see below for FE tester issues), resumed bonding of remaining OTIS Boards. Sent 2+2 to Dirk
- Contacted Selectronix about SCSI cable tests: continuity and short (all contacts), insulation and conductor resistance. Tester specs at <http://www.cirris.co.uk/InfoWeb/cable/tester/1100r.html>, <http://www.cirris.co.uk/InfoWeb/cable/tester/spec1100r.html>.
- SCSI cable length: approved present length also for 2nd half of production (Long Frames), 204 more cables will be produced (280 already delivered, 432 needed for the C-frames, but 4×12 also inserted in C-frames as spares).

C. New Issues

- FE Box mechanics problem: esthetic only?
- "Small" FE Box: no space for HV "wires"?
- FE Tester problems in combination with new version of GOL/AUX?
- LV box assembly need man-power
- Fiber breakouts might be more fragile than thought, should complete test before proceeding. Also decide about extra spare ribbons for cable trays (only 50 and 48 needed)
- Cabling from C-frames to tunnel [T. Sluijk]
- Connectors for patch panel [V. Bobillier] + cable trays [T. Sluijk]

D. Open Issues

The following issues are still open:

- OTIS Board assembly problems at RIPA
- Production of first prototypes of “small” FE, then talk with D-Switch
- ASDBLR chips must be available by March 2006, unclear whether Eduard’s plan can be worked out, perhaps should at the same time let them send “unambiguous” Lots
- Schedule of HV Boards PCB needs to be revised, waiting for QPI answer by the end of this week
- Paperwork for one Tsinghua student for long-term ok, but still missing solution to get Zeng Ming for the first two weeks
- 1 FTE for the assembly of the FE box must be available by April 2006
- Materials, Manpower and Schedule for detector installation and commissioning needs to be evaluated, including detailed travel/detachering plans, in particular:
 - Preparations
 - C-frame installation
 - Cable trays and tunnel
 - FE-Box installation and test
 - OT commissioning and global commissioning
 - Etc.
- C-frame tested almost completed, problems with test of fibers, also shortage of fiber breakouts, ordering 10 extra
- CTRL Box components being ordered by A. Zwart, next design finished before Albert’s holidays (1/2 February, 1 week)

E. Action List

FE Electronics:

- 1) Come to conclusions about HV Boards [J. Koopstra]
- 2) Test Lot 1220 ASDBLR chips and evaluate schedule [E. Simioni]
- 3) Discuss with RIPA about OTIS Board assembly [W. Gotink]
- 4) Complete bonding and test of OTIS boards and FE electronics
- 5) Check status of “small” FE Box
- 6) Update FE production/assembly schedule (don’t wait for test of batch N to start production/assembly of batch N+1???) [J. Spelt + E. Heine]
- 7) Clarify the manpower issue for FE Box assembly [A. Pellegrino]
- 8) Clarify the manpower issue for LV Box assembly [A. Berkien + E. Heine]
- 9) Mirko Nedos will come to NIKHEF next week [A. Pellegrino]

C-Frames

- 1) Get an FTE for the assembly [E. Heine]
- 2) Eduard shall test cabling of C-frame [E. Simioni]
- 3) Tom provide electronic version of Rack+cabling document

Installation & Commissioning

- 1) Address man-power issue [T. Sluijk + E. Heine + A. Pellegrino]
- 2) Address time schedule issue [T. Sluijk + E. Heine]
- 3) Tom provide electronic version of Rack+cabling document
- 4) Order missing components (cables, connectors, cooling flexibles etc.)

F. Agenda for Next Meeting

- Checklist Open Issues and Station Action List
- Discussion Updated Schedule

Adjournment:

The next meeting will be at 14:30 on Tuesday January 31 2006 in N-248.

Minutes submitted by: A. Pellegrino

Approved by: