



# LED Minutes of Meeting

*La Silla*

**Subject:** Engineering Meeting No.: 10/2005

**Date:** 09.05.2005

1. La Silla Pending Problems:
  - a. 3.6m Problem with img camera: TCCD #34 continues under test and shows a good behavior. Pending Test: To test it under different temperatures. Expected deadline for this test: end of May.
  - b. 3.6m F35 chopper amplitude is not right: A new Auxiliary VME board is ready and it was tested. All functions are working with the exception of a FOCUS status.
  - c. 3.6m, EFOSC, High RON in NL2x2 mode: Peter will see it on his next turno.
  - d. 3.6m Old control room ventilation failure: L. Wendegass is working on it; he needs a programmer for the PLC unit. He shall bring it to La Silla on the next turno. Meanwhile the unit is connected for running continuously.
  - e. 3.6m HARPS, Not possible to file problem: M. Pavez tried to reproduce the problem without success. Probably the network was too busy when the problem occurred.
  - f. NTT SUSI2, cross windows fail on susi ccd: I Kastinen will see it.
  - g. NTT EMMI Red CCD image corrupted: SW will investigate it on May 23 (technical time).
  - h. NTT Baffle failed: O. Lavin is supposed to have created a periodic preventive maintenance until a definitive solution is found. We need the confirmation.
  - i. 2.2m Parallactic angle is calculated wrong in TCS: V. Gonzalez is working on it and will be ready this week.
  - j. 2.2m www machine very slow: IT cannot kill processes without a pertinent authorization. Problem is returned to SCI.
  - k. 2.2m Feros fieria failed: We can do very few if there isn't a log. If it happen again, please, call for help to reduce the lost of time.
  - l. 2.2m UPS failure: UPS line has been connected to the 1.52m's ups. **The purchase of new UPS's for 2.2m and 3.6m have become an urgent issue.**
  - m. 2.2m delta-interlock-chain-active: In fact it was not only the delta axis but a common interlock failure, related to the EndLage mercury switch. The mechanical piece supporting the mercury switch got stuck in a position causing the failure. Unit was lubricated and will be dismantled for more detailed maintenance in the lab.
  - n. Many other problems assigned to ISG (actually Maintenance) could not be discussed because L Aguila was not in the mountain.
2. Points from the previous meeting:
  - 2.2m Differential guiding problem: Solved from the operational point of view. A patch has been installed. We are waiting for a definitive solution from Garching.

3. Ongoing Projects:
  - a. TIMMI 2 and F/35 M2 Control: J Valenzuela wants to work on it during the EFOSC run, but he needs the Ring in vertical position to prevent damage to the unit. Mechanics will add a support point to the unit in order to keep it vertical by using the 3.6m dome crane. They could make a dedicated support if enough time is given for this work (end of August).  
For these matters Javier must get in touch with Mechanics.
  - b. Harps High Efficiency Fiber (EGGS): New date for FDR : May 13th.
  - c. M1 3.6m Lateral Pads: PDR confirmed for May 10th.
  - d. NGTCCD: Test run has been successful. P. Sinclair will implement a new test bench in La Silla during his next shift.  
On the other hand, W Eckert/A Pizarro are working in a modification of the CCD head reducing its thickness. Wolfgang has three proposals, reducing thickness respectively 4mm, 6.5mm and 8mm.
  - e. GROND: M3 is being prepared to send it to La Silla.  
People from MPE are coming on the last week of June:  
3 people related to the mirror, a programmer (who would stay longer in order to get training on VLT SW) and Dr Greiner.  
They hope to try the M3 installation test, and a first test measurement of the azimuthal location of the beam near the main frame (e.g. with a bright star during twilight).
  - f. EMMI Calibration Unit: PDR in principle for May 27.
  - g. Paranal M1 Cover: Ready.
  - h. REM new LN2 Dewar and other items: Waiting for purchased items.

4. LED Team Reports:
  - a. Software Team:
    - The interviews for the SOF position were done during May 03. 2 applicants will visit LSO during May 12-13.
    - The Action Point for read the temperatures of HARPS pulpo was finished. It should be commissioned by Sci-ops.
    - psotoo (tool for corrupted images) module installed at all INS WS of LSO.
    - A workaround for the END button of EMMI is already installed. Now is possible save the image when the general instrument status is STANDBY.
    - First draft of SOF Training Plan 2005 sent to I. Kastinen to be approved.
    - Support to ODT group for WFI pulpo connection failure.
    - J. Reveco is currently visiting Paranal for the NGTCCD tests.
  - b. Electronic Team:
    - NTT Rotator A – Corotator alignment.
    - 3.6m Top end lock pin was readjusted and a new value of absolute Siemens encoder value found: 9488. SCI & LED have been informed.
    - Collaboration with A Pizarro in reinforcing the reliability of WFI shutter. Encoder + limit signals shielded.
    - Lot of time used in solving problems for adapting the ups from 1.52 to the 2.2m TCS.
    - 2.2m Delta interlock troubleshooting
    - Lateral pads upgrade preparation
    - EGGS project study.

c. Instrumentation and Optics

- Instrumentation: Investigation of SOFI noise.
- Instr Troubleshooting of WFI shutter. Finally the solution was to replace the RS232 fiber link from pulpo to Sparc by a galvanic cable.
- Instr: 3.6m F35, found a faulty encoder, need F35 vertical or mounted in telescope.
- Worked on F35 chopper, the new Auxiliary VME board is ready and it was tested. All functions are working with the exception of a FOCUS status.  
J Valenzuela compared with old board and found out some difference which is not described in the ORCAD schematics. Will continue the next shift.
- Instr: Have the Filter controller from REM to be fixed, meanwhile we positioned the wheel in one filter an they can observe.
- NTGCCD : Worked in Paranal testing them.
- Optics: Worked on PDR for new EMMI calibration unit.
- Optics: Studying the feasibility of an echelle for SOFI.
- Optics: Studying a new light calibration system for measuring the CCD topography (needed in Paranal)
- Optics: Worked in a checkup of the forces distribution on 3.6m M1.
- Obs: A lot of little water drops are visible on the 3.6m mirror. It is not so serious by now because mirror will be aluminized next September, but it is an advertence flag.
- Optics: Maintenance work on EMMI optics. Found a filter damaged in a border (doesn't affect the system) and grism #7 with fringes in an area which could affect the scientific results. Need access to make tests.

d. Mechanics:

- M1 Cover for VLT: work is ready.
- New TCCD parts production & design of a reduced thickness version.
- EMMI Calibration project: preparation of PDR.
- J Pineda is collecting all the drawings updates for the VLT new M1 Cover.

5. IT Report:

- Normal Support Activities (help desk)
- Fiera SLCU (Sparc) upgrade (APR2004)
- Scientific Linux testing