



# LED Minutes of Meeting

*La Silla*

**Subject:** Engineering Meeting No.: 08/2005

**Date:** 18.04.2005

1. La Silla Pending Problems:
  - a. 3.6m Centerfield mirror gets stuck: The bearings arrived and EBA and OLA had decided not to install them yet, due to the heavy workload in the workshop and the so far acceptable working condition of the repaired bearings.
  - b. 2.2m FEROS TCCD temperature out of range: Solved by LGO, but makes necessary to prepare a maintenance plan for this cooling system. To ask LWE to prepare this plan.
  - c. 3.6m HARPS slow readout mode is noisy: Waiting for the next long idle time.
  - d. 3.6m filter wheel fail: Continue the testing. According to UWE the problem is inside the vacuum part. To warm up and open it.
  - e. 3.6m chopper amplitude is not right: Not possible to investigate as the top ring was not placed on the observing floor. Next shift JVA work on it.
  - f. 3.6m Objects fall at the edge when using the centerfield: Planned for next M1 mirror coating in September.
  - g. NTT He lamp problem: Continue the monitoring
  - h. NTT image corrupted: An action point was open to install a tool to solve this problem
  - i. NTT multiple reflections inside EMMI: AGI will have to study this problem
  - j. 2.2m not possible to complete focus exposure: Electronics could increase the maximum driving current from 2.5 Amp to 5 Amp, without any problems. Only necessary to check the space for the new module.  
However, it is recommended to check the mechanics prior any change to the motor current. This can only be done during the M1 coating period, although difficult to do it as the telescope requires to be at the horizon and not at the Zenith.
2. Points from the previous meeting:

No problems.
3. Ongoing Projects:
  - a. TIMMI 2 and F/35 M2 Control: The work together with software regarding the PC LINUX continued. A mail to Paranal asking for help was sent. F/35 M2 control new auxiliary board is ready and need to be tested in situ. It was impossible to work with the rotator as the top ring was not placed on the observing floor. New DSP board under work.
  - b. Harps High Efficiency Fiber (EGGS): During the April 5<sup>th</sup>, 2005 meeting several decisions were taken. The drilling of holes in the Ni plate will be done in house, as the tests proved the quality and precision possible to obtain in the workshop. Tolerances study sent by GAV from Garching. It was decided to have the Optical and Mechanical report ready for April 30<sup>th</sup>. As tentative date for the FDR, if reports are available, May 16<sup>th</sup>. Splicing tools were sent to Garching together with the ceramic inserts. Electronics is designed and the prototype tested.

- c. M1 3.6m Lateral Pads: Different discussions between AMA and RSO regarding the software and hardware to be used. A preliminary report of the advance of the project is required for the analysis of the progress.
  - d. NGTCCD: During the video link with Paranal and Garching, several issues were discussed. The testing of the complete first unit will be followed in the week 18 to 19 (2.05 to 15.05). PSI will participate in the testing. Also JRE will go to Paranal in order to follow the software.
  - e. GROND: JVA informed that the read out mode of the IR camera is ready in Garching. No more news are available of the progress of the project.
  - f. EMMI Calibration Unit: AGI informed that it is difficult to have the planned meeting the 27.04, as he is in Paranal and his information required to discuss is in La Silla.
  - g. Paranal M1 Cover: Different tests are continuously followed in order to solve possible problems of the system. A camera for remote control is under preparation. Also telephone and internet connection to the testing site at ground level of the 3.6m telescope.
  - h. REM new LN2 Dewar and other items: LGO has everything prepared for the assembly of the system once the parts that are going to be sent from Europe arrive.
4. LED Team Reports:
- a. Software Team:
    - After commissioning of EMMI ICB under VLT software, some problems mainly with the VLT software versions alignment were analyzed. It is planned to align the PCI FIERA with April 2004 VLT software.
    - Differential guiding in the 2.2m does not work with the current and new SPARC. IKA found a solution for the current SPARC but still not tested in the new unit.
  - b. Electronic Team:
    - Problems with CAMAC repaired.
    - The roof on top of the EMMI CAMAC was removed and the temperature conditions improved.
    - MACCON on Rotator B was changed
    - Working on problems with WFI shutter. It was solved by JAL and JVA
  - c. Instrumentation and Optics
    - Change a vacuum sensor in CES
    - EMMI maintenance planning 20.04 to 24.04. To be confirmed
    - Working in the F/35 project
    - All problems as previously reported
  - d. Mechanics:
    - M1 Cover different tests and fabrication of some parts
    - Repaired turbine for the LINIT 25 LN2 plant arrived and installed. Running OK, but fine tuning of plant required for the normal production. To continue this shift.
5. IT Report:
- a. Data flow system: ASH starting and giving training in DVD burning to TIOs
  - b. ASH goes to Paranal to participate on TCS tests and coordination.
  - c. Studying the data transfer speed on workstations
  - d. Preparing the video camera, phone and internet to be installed at the VLT M1 cover testing site
  - e. A LEGO kit was given to Universidad Técnica Federico Santa Maria to built a mock up a web (robotic) telescope.
6. Other Subjects:

- a. GIH asked the LED members to provide with the required technical times for period 76 before day after tomorrow (20<sup>th</sup> April)