

February 20, 2006 LGS Facility IPT Meeting Minutes

A. Bouchez 2/20/07

Caltech: Angione, Bouchez, Cromer, Moore, Pickles, Roberts.
Palomar: Henning.

1. Subsystem status

1.1. Laser

- Ed: Traces don't look good. Reason to expect improvement over 5.5W.
- Need interlock on AOMs...

1.2. BTO

- Telescope secondaries are reinstalled. Telescope is being collimated this morning, testing drive systems this afternoon. Talk with Bob or Mike about schedule.
- John made electronics change to Coude FSM.
- Heating of M3 controller: Need a thermostat. JH will install thermostatic control on ESP-300 cooling fan. Probably not completed before Feb. run.
- Antonin cleaning BTO optics on 2/21
- Antonin and John testing BTO on 2/22.
- John at Palomar on 2/26.

1.3. LGS Computer

- Still planning on coming up on 2/22 to install LGS computer.
- Also bringing up new I/O brick?
- When can Chris go up to Palomar to install?
- Also need Na frequency lock hardware changed!
- AB to contact Chris about availability.

1.4. Laser diagnostics

- AB to install new M1b mount on 2/21.
- Working in Coude rm. Fri.-Sat. Laser at full power.
 - Will install plywood platform to support 589nm filter.
- Working on LLT downstairs on Fri.-Sun.
 - LLT parts have not yet arrived. Will contact manufacturer.
- Will plan check of LLT boresighting on first night.

1.5. Safety systems

- RADAR response time - Need to determine. JR will determine theoretical.
- IRCAM response time - JC and JR to discuss.
- Change in TCS interlock to match new FAA limits.
 - Questions regarding RADAR sensitivity at low elevations.
- SG wrote new parallel port driver for the BTO (and other safety systems). Needs testing. Should we include it in this build? No - will include in a test build.
- Door interlocks.
 - Current system is fail-safe.
 - If we can find a way to get "driver current on" signal out of drivers, then could use that for "red" trigger.
 - Ed will write a memo on how to redesign.