Palomar Adaptive Optics Test Plan

Title	LGS-AO Science Night Checklist		
Version	1.0		
Date released	9/18/2007		
Lead	A. Bouchez		
Time requested	N/A		
Required conditions	N/A		

Purpose

Provide a schedule and checklist of science night tasks.

Procedure

3:00pm

- 1. Test basic AO and PHARO functionality using AO stimulus.
- 2. Start up laser (Procedure: Laser Startup v2.0). Bring to full power without optimization to allow temperature to stabilize.
- 3. Remove LLT primary mirror cover, store in elevator.

4:00pm

- 4. Request that observatory lock be removed from Coude block.
- 5. Test laser interlock system.

5:00pm

- 6. Check laser power. Optimize power and wavelength tuning.
- 7. Start up BTO control GUI
 - 7.1. ssh -Y aousr@198.202.125.152
 - 7.2. bto ctrl
- 8. Perform BTO checkout (Procedure: Abbreviated BTO checkout v1)

Sunset

- 9. Perform NGS checkout (Procedure: NGS Checkout v3.1)
- 10. Perform LGS checkout (Procedure: LGS Checkout v1.0)
- 11. Optimize laser as necessary throughout night (Procedure: Laser Startup 2.0)

Science Observations

12. Follow procedure: LGS Target Acquisition v4.0

End-of-night

- 13. Close and lock Coude block (both locks)
- 14. Power down laser (Procedure: Laser Shutdown v1.0)
- 15. Install LLT primary mirror cover.

Notes			