



Keck Next Generation Adaptive Optics AO Relay Opto-Mechanics Design Review Charge and Review Process

Don Gavel

October 27, 2009

There will be an internal review of the NGAO adaptive optics relay optomechanical system held on November 3, 2009. The purpose of the review is to evaluate the proposed system design and confirm that it will meet the requirements of NGAO as well as be a good starting point for continuation into final design phase.

The review panel consists of three experts from the NGAO team, two from Keck Observatory and one from Caltech Optical Observatories. The review panel is being provided a detailed design document describing the proposed design, and a spreadsheet of the requirements taken from the Contour database with annotations of the design's compliance. Some supplemental material is available on the web page http://www.oir.caltech.edu/twiki_oir/bin/view/Keck/NGAO/OptoMechanicalMinReviewNov09. Using this material, the panel is asked to evaluate the proposed architecture for the following:

- Technical feasibility and design completeness
- Risk
- Satisfies requirements
- Cost effectiveness (as considered in the design; this is not a cost review however)

The review will take place on Tuesday, November 3, starting at 1 pm PDT. We will use video conference facilities at the CfAO to connect with participants from CalTech and Keck. The review committee consists of the following people:

- Rich Dekany, Caltech
- Alex Delacroix, Caltech
- Thomas Stalcup, Keck

The presentation team consists of the following people:

- Donald Gavel, UCSC
- Renate Kupke, UCSC
- Chris Lockwood, UCSC

The baseline agenda for the review is as follows (all times are PDT):

- 1:00 pm: Welcome and introductions
- 1:05 pm: Presentations
- 2:30 pm: Response to reviewers' questions
- 2:50 pm: Break
- 3:00 pm: Open discussion and questions
- 4:00 pm: Review committee closed session
- 4:45 pm: Review committee feedback to team

Reviewers may submit written questions to the design team on areas or issues they would like to see covered during the review. Questions should be directed to Don Gavel, gavel@ucolick.org. Questions received by noon (PDT) Monday, Nov 2 will be addressed with response during the review presentations.

Thanks for helping out and participating in this review!

Don Gavel
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