

ADC Team Meeting
August 26, 2003

Present

Will Deich, Barry Alcott, Vernon Wallace, Drew Phillips, Joe Miller, David Hilyard,
David Cowley

Next Meeting- Sept 10th

Requirements Document

Action

David Cowley will prepare a draft response to the revised Requirements Document and circulate it to the project team.

ICD

Many of the items in the ICD are "TBD".

Action

David Cowley will review the document and determine what he thinks needs to be filled out for the PDR.

PDR

We set a series of milestones in preparation for the PDR.

September 10 Complete Preliminary Design
September 22 First Draft of the PDR report
September 29 Circulate Draft to CARA
October 6 Finalize Report
October 8 Post Report to web site.

Optical Design

Drew Phillips corrected problems with the Zemax models we got from CARA for both the red and the blue sides of that instrument. The red side model lacks the thermal indices variance but the blue side model is very good. The thermal indices would make only very minor differences to the image size.

Drew evaluated the performance of the ADC in front of LRIS using the corrected Zemax models and concluded that the ADC will make negligible differences to the images. The

worst case was an image growth of about 4% with the average being around 2%. He still wants to do some more work on the red side. And document his findings.

Corning and Zygo have both recently followed up on their quotes to find out the status of the project.

Mechanical Design

The preliminary mechanical design is nearing completion. A list of completed and outstanding items is attached.

We plan to bolt the storage stand to the Nas Deck, the part below the bolted flange belonging to CARA. Vern will send this design to Drew M for comment.

Electronics

Barry completed a schematic diagram of the electronic control system which can be seen @ <http://loel.ucolick.org/manual/ADC/schematics/ADCblock.sch.pdf>.

Software

Will is proposing that we use a net based Galil controller and that the Unix computer controlling it be in the Keck Computer room. This would simplify the number of electrical devices we need to house on the telescope and reduce the heat load in the dome. He will propose this to Sean Adkins.