

Cassegrain ADC

Monthly Report, October, 2004

I. Narrative

A. Summary

Fabrication continues at a fast rate, we expect to complete all major mechanical parts completed by mid next month. Assembly of the electronics components should be complete by the end of the year. Zygo continues with the prisms and are telling us that they will complete on schedule.

The THK rails were miss specified on their web site, and thus ordered wrong. They have agreed to take back the incorrect parts and will send the correct ones. However the delivery on the new parts is 4 to 6 weeks, which will delay first assembly. The THK screws are expected by the end of October.

Work on Coating development continues and we are confident that we can apply the evaporative coating when needed mid next year. We will start design of the chamber to apply the hydrophobic coating this month. This is an easy process and we see no technical difficulties at this time.

B. Technical Status

1. Overall Assessment of Scientific and Technical Status

Work on all parts of the project continues and we see no major technical challenges at this time.

2. Accomplishments of the Past Month

As above

3. Problems

None other than the rails mentioned above

C. Schedule and Budget Status

1. Overall Assessment of Progress and Expenditures

The schedule to assembly is delayed about 4 to 6 weeks due to the problems with the THK rails. The optics are on the critical path, and the assembly is using some of the free float in the schedule.

The mechanical fabrication is about 65% complete and we have expended about 80% of that part of the budget. Similarly the budget for mechanical materials and mechanical

engineering will be overspent by about 30%. The sum of this underestimation is expected to be about \$15,000 or about 12% of the contingency.

2. Problems

None other than the underestimation

D. Proposed Actions Regarding Problem Areas

1. Scientific or Technical -none
2. Schedule - none
3. Budget -none

E. Anticipated Accomplishments in the Next Month

Continuation of fabrication

F. Other Issues and Information Deemed Essential to Include

II. Schedule

A. Current Schedule -attached

- III. Confirmation of Amendment of Project Schedule and Milestones – at this time we believe we are on schedule.
- IV. Confirmation or Amendment of Project Budget – will likely ask for a draw on the contingency at the start of major assembly.
- V. Project Financial Summary –attached. At the end of Sept we had expended \$92,210 of an approved total of \$375,963 not including contingency for the Full Scale Development/Commissioning Phase.