

Optical Maintenance report 02 Jul. 2002

This report is written to start a discussion what is going on and what is expected of the optical maintenance at the ORM and SLO.

With optical maintenance the monthly work is meant, which should be carried out by the optical expert or people assigned by him.

Current work and schedule:

The main work on the optical maintenance is the quality control of the optics. Therefore the current schedule is that the optical expert is going to site twice every month for optical maintenance only. These days he will not work on any other projects or other maintenance work.

The work done up till now on site:

- CO2 cleaning every last Friday of the month
- Reflectivity measurements every 2nd week of the month
- Filter quality check every 2nd week of the month.

Future plans for the maintenance:

In the future the plan is to expand the previous work on the quality control. Regular filter scans will be made on site or at SLO.

Chris Benn has set up the following cleaning schedule for optical maintenance.

Components	Inspect throughput	Measure	Clean / resurface
Primary		2 weeks	1 month
Secondary		3 months	6 months
Tertiary		3 months	6 months
Diff gratings	3 months	1 year	never
Collimators	3 months	1 year	as required
Filters / dichroics in spectrographs	3 months	2 year	6 months
Image filters	6 months	2 year	on use / as required
Liquid CuSO4 filters	3 months	3 months	refill as required
Derotator	3 months	1 year	as required
CCD's	at change	6 months	
CCD windows	at change	never	at change

A washing plan will be made and the plan is to wash the WHT primary mirror this year. Depending on the result re-aluminise the primary next year.

Documentation of the optics should be improved. The days the optical expert goes up the mountain will also be used to document the optics and their quality in to a database.

Feedback from observers:

To stay on top of the optical problems a good feedback from observers is needed. This means if there are any uncertainties in the optics this should be reported. The way to do this is or by emailing the optical expert or to put it i.e. in the filter database.

End results:

The result is to have an active optical quality control and maintenance for the ING optics like the above optical schedule.

If needed a report can be made every month of the work done on the optical quality.

In this report the astronomers can create an action list with the urgent optical actions.