



LBT PROJECT 2x8,4m TELESCOPE

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LBT PROJECT 2 X 8,4m OPTICAL TELESCOPE

Instrument Rotator and Cable Chain Spare Parts List

	Signature	Date
Prepared	Robert Meeks	15-Mar-07
Reviewed		
Approved		

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1. Revision History

Issue	Date	Changes	Responsible
a	15-Mar-07	First Draft	Robert Meeks

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3. About this document

3.1. Purpose

The purpose of this document is to describe a list of recommended spares for the LBT instrument rotator and cable chain assemblies.

3.2. Reference Documents

None.

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4. Spares Philosophy

Normal quantitative approaches to systematically analyze the telescope and subsystems to identify critical spares necessary to achieve a specified level of system availability are impractical in the case of the telescope. Instead, a qualitative approach to identifying critical spares was used.

Fundamentally, a component is identified as a critical spare if its availability at the telescope could significantly decrease telescope downtime in the event of a failure of that component. The following criteria were considered:

- Cost
- Lead time
- Likelihood of failure
- Impact of failure
- Time to repair

Spares will be maintained at the module level and at the component level. Complete integrated and tested modules will be replaced if necessary. The failed modules will then be returned to Tucson for troubleshooting and repair. Some component spares will be stocked for this purpose.

5. Spare Parts List

The following complete modules will be stocked as spares:

- BGR Instrument rotator motor assembly
- DGR Instrument rotator motor assembly
- BGR Cable chain motor assembly
- BGR Cable chain motor assembly
- Drive power module
- Rotator interface module

And the following components will be stocked:

- Instrument rotator motor
- Cable chain motor
- Gearbox
- Drive module
- Motor cable sets
- Encoder read head
- Encoder tapes
- Absolute encoder
- Brake
- Brake solenoid valve

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- Position sensors
- Emergency limit switches
- Brake release sensors
- Cable chain links, separators, etc.

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