

LIRIS INFRASTRUCTURE REQUIREMENTS

Version 1.0
20th November 2001.

INSTRUMENT CONDITION	OPERATIONAL STATUS	Frequency of Operation	Duration of operation	Man Power Requirement	"Clean Room" Environment Reqd.	Dry/Warm Environment Reqd.	240 vac UPS Power Available	Fiber Optics link to Control Room	Acquisition Computer Running	Instrument Control Computer Running	Liquid Nitrogen Usage	Helium Compressor Available	Helium Gas Usage
WARM	Transport to / from Park at Telescope	once on arrival	4 hours	12 mh	no	yes	no	no	no	no	0	no	0
	Connection of Instrument at Park	once on arrival	1 hour	2 mh	no	yes	yes	yes	no	yes	0	yes	3.0 cu mtr
	Preventive maintenance at Park	6 months	??		yes	yes	yes	yes	yes	yes	0	yes	3.0 cu mtr
	Mask and Filter Change at Park	6 months	3 - 5 hours	6 - 10 mh	yes	yes	yes	yes	no	yes	0	yes	0
COLD	Vacuum Pump Instrument at Park	6 months	48 hours	8 mh	no	yes	yes	yes	no	yes	0	yes	0
	Cooldown Instrument at Park	6 months	48 hours	8 mh	no	yes	yes	yes	no	yes	200 ltr	yes	1.0 cu mtr
	Testing off Telescope at Park	1 month	??		no	yes	yes	yes	yes	yes	0	yes	0.3 cu mtr
	Stand by off Telescope				no	yes	yes	yes	yes	yes	0	yes	0.3 cu mtr
	Disconnection and move to Stand by on Telescope	each inst. change	5 hours ⁽¹⁾	19 mh	no	no	no	no	no	no	10 ltr	yes	0
WARM	Routine Testing on Telescope	each day	0.5 hour	0.5 mh	no	no	yes	yes	yes	yes	0	yes	0
	Stand by on Telescope				no	no	yes	yes	yes	yes	0	yes	0
	Operation on Telescope				no	no	yes	yes	yes	yes	0	yes	0
	Disconnection and move to Stand by off Telescope	each inst. change	4 hours ⁽²⁾	14 mh	no	yes	no	no	no	no	10 ltr	yes	0.3 cu mtr
	Instrument Warm up at Park	6 months	96 hours	8 mh	no	yes	yes	yes	yes	yes	0	no	0
	Instrument Shut down at Park	6 months	3 hours	3 mh	no	yes	yes	yes	yes	yes	0	no	0
	Instrument Disconnect at Park	never	1 hour	1 mh	no	yes	yes	no	no	no	0	no	0

Notes:

1

Does not include dismount of original Cass instrument

2

Does not include remount of Cass instrument or Tel balance