

120 INCH TELESCOPE MAINTENANCE AND LUBRICATION RECORD

YEAR (_____)

Maintenance Performed	Hz	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dome Drive													
Dome tack – lube	4												
Dome tuck, zerks, FF holes - lube	2												
Dome drive assembly – lube / fluid check	2												
Check drive fluid couplings	2												
Dome Shutter													
Upper shutter gearbox – lube / fluid check	1												
Upper shutter tracks & wheels - grease & zerks	2												
Inspect shutter cables for wear & tension	12												
Lower shutter wheels – zerks	1												
Lower shutter drive & tracks – lube/fluid check	2												
Dome Miscellaneous													
Clean dome encoder tape	2												
Clean dome encoder optics	2												
Lube dome encoder pantograph joints	1												
Inspect slip-rings – service as needed	4												
Inspect & service dome outhaul winch	2												
Service bridge crane – lube/fluid check/zerks	1												
PF elevator drive gearbox – lube / fluid check	1												
PF elevator track – grease	2												
Inspect PF elevator cables for wear & tension	12												
Lube fork arch rails and screws	4												
Lube 5 th mirror ball screws	2												
Lube 5 th mirror chain	1												
Check 5 th mirror gear box	1												
Mirror handling fixture – fluid check/zerks	1												

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Telescope													
Declination gearbox – lube / fluid check	1												
Dec. tangent arm gearbox – fluid check	4												
Dec. counterweight – zerks	1												
Mirror cover drive box & chain	1												
Mirror cover zerks and gears	2												
Dust off mirror cover and secondary	1												
CO ₂ clean primary	12												
Coude' Camera Room													
Coude' Slit Room													
Coating Facilities													
Kinney vacuum pump oil level check	1												
Kinney vacuum pump belt check	1												
Kinney vacuum pump seals & motor zerks	1												
Roots blower oil level check	1												
Roots blower belts check	1												
Diffusion pumps fluid level check	1												
Diffusion booster pumps fluid level check	1												
Clean & grease tank access seal	1												
Clean tank side viewing ports	1												
Dust off tank	2												

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Air Compressors													
Check belt condition & tension	12												
Drain condensation from compressor tanks	12												
Change compressor oil	1												
Air Conditioning													
Clean/change CAT control room ac filter	2												
Clean/change AO control room ac filter	2												
Change Shane control room ac filters	2												
Coude' camera room air filters	1												
Polar room electrostatic filters & check belt	2												
Shop													
Clean and lube shop mill	4												
Clean and lube shop lathe	4												
Polar Axle Room													
Replace oil rags / polar axle room	4												
Check cradle shift makeup reservoir level	4												
Oil Pumps													
Clean around lube pumps/tanks	4												
Pad oil filter change – spin on cartridge (two)	1												
Service oil pumps & motors – zerks	2												
Check pad & worm oil tank level	4												
Air Compressors													
Oil change	1												
Compressor belts check	6												
Drain condensation from compressor tank	12												

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Manlift													
Check battery fluid	4												
Check handrail setscrews (safety)	4												
Check brake fluid	4												
General safety and operation check of manlift	6												

Notes: