40m to-do list

ALS

EQ, 2 Sept — Xend PDH checkout, why saturating??

EQ, 2-5 Sept — Ygreen modematching on PSL table

EQ, 2 Sept — UGF "servos" for phase trackers - fix up

EQ, 24 Aug — Should noise eaters be on for aux lasers? Are they already? Will this solve mystery 800MHz noise on Y beat PD?

JCD — PDH requirement from ALS noise requirement

EQ, 2-5 Sept — Triggering for end PDH boosts

JCD, 2 Sept — Set ALS control signal limits to about factor 5 larger than amount needed to hold lock. This should reduce the size of kick to mirrors at lock loss.

JCD, 2 Sept — Balance ETMs. Lock ALS diff, shake ETMs, adjust output matrix so they cancel.

JCD, RXA before 5 Sept — Fast find IR resonance script

EQ, before 5 Sept — ALS watch script change - look at displacement, not force

JCD, Sept — Check mode hopping temps for PSL, Aux lasers (after fiber beat hardware installed)

NS-L, before 5 Sept — X green mode matching

KA, Sept — X green ASS tune-up for new telescope

Y green remote PZT install

ALS BLRMS to monitor noise

Optical levers

JCD, 14 Aug (start) — PRM loop tune-up: Minimize motion in PRMI case, minimize fluctuations of POP 22/110 power

EQ, before 5 Sept — Spot size check on all QPDs - are the spots reasonable?

EQ, before 5 Sept — How to increase the range for ETMY?

ASC

JCD, before 5 Sept — Test POP QPD -> common ETMs

GV, before 5 Sept — Lock single arms, shake test masses, see effect at POP QPD to infer Gouy phase. Check with Gabriele's model, and move QPD to location where PRM effect is minimal.

EQ, KA 2-5 Sept — POP 22 razor blade test for yaw ASC

LSC

JD, 2 Sept — Try DARM on sqrtInvTrans

EQ, 2-5 Sept — Implement UGF servos for LSC loops

JCD, 2 Sept — Write a lockloss script that is run by the ALS watch scripts - print a PDF of error and control signals for every lockloss, and save it somewhere

EQ, before 5 Sept — Look at possibilities for engaging AO path

MC / FSS

RXA, before 5 Sept — Look at boards to compare with drawings - why doesn't model match measurement?

RXA, before 5 Sept — Where is the 1 MHz bump coming from? Get rid of it.

RXA, before 5 Sept — What is FSS mixer lowpass? Remove and replace if same as MC demos board.

RXA — Maybe remove z @ 70 kHz and p @ 140 kHz which are flattening out MC TF.

NS-L — MC WFS loop tune-up

Soon - within 2 days

Pretty soon - within 1 week

When time - within 1 month

If time - within 1 year