
11 Sep 2014 (1215-0015 UT) OPERATOR: mcb

WEATHER INFO: Winds-> 1.7 mph @ 28, 16.7 C, 79.1% RH, 610.9 Torr, clear

ARO 12-Meter Recommissioning:

1. Tom, Nick, Sean, Mike, Bob, Dave and Martin are on site.
2. Sean continued installing the upper BUS-ring lightning protection.
3. Martin programmed the HVAC fan controller to autorestart after mains blackout/brownout or fault. It should restart w/in 30 secs of such an event. It will try to restart 3 times before giving up.
4. Lucy and George arrived after lunch.
5. We continued the system shakedown, attempting to optimize the pointing and focus while tuned to 115.271204 GHz.
6. Sean purged the air-compressor tank.

11 Sep 2014 (0015-1215 UT) OPERATOR:

WEATHER INFO: Winds-> 10.4 mph @ 333, 25.1 C, 47.9% RH, 610.9 Torr

- 1) Tom and Mike remain over for more pointing tests.
- 2) Mike left around 7PM.
- 3) Well, it's official; the nutator is a 200 Lbs piece of crap. We are talking boat anchor here.

It will not run more than 2 hour without crapping out.

On the notion that it's failing due to missing pulses, I set both positions to -120" and plugged in a function generator running at 4Hz. Went back to pointing, after having to reboot the entire nutation system, and it ran for 70 minutes this time before failing.

I'm beginning to suspect the spring conductivity loop Nick and Dave have mentioned.

- 4) Oh well, guess I can work on software issues in the meantime...