

**From:** et@lmg.usap.gov  
**Sent:** Saturday, June 18, 2016 4:47 AM  
**To:** et@lmg.usap.gov  
**Subject:** Oxygen System Weekly Maintenance: Sat Jun 18 04:47:01 GMT 2016

## Oxygen System Weekly Maintenance

Date: Sat Jun 18 04:47:01 GMT 2016

**There are clickable links in this email with detailed step by step instructions if you are unsure of any operation**

1. [Connect to the oxygen instrument using RDP](#)
  - o click STOP in main window
  - o close program with (red X)
2. Copy all new data files (\*.mr and \*.hr from DesktopData) to the USB drive  
While those are busy copying (it takes a while), continue with:
3. [Swap out the O2 system moisture trap](#) and note new trap positions
  - o new trap "#", now in chiller: 2
  - o old trap "#", now in dryer: 1
4. Open the right side of the cylinder box and note the high-side and low-side regulator pressures
  - o HS 1000 / 2.75
  - o MS 1200 / 2.0
  - o LS 1000 / 2.75
  - o LT 300 / 3.0
  - o WT1 1400 / 2.75
  - o WT2 1950 / 3.0
5. Ideally, all six low side cylinder pressures read 3.0 +/- 1.0 psig. Note any outliers
6. Close up the cylinder box
7. Check if the peristaltic pump inside the Manifold box is spinning. (yes/no)
8. Confirm PC time is syncing with GMT time (yes/no)
9. Restart program with go2.exe shortcut on desktop
10. Click 'Enter in AutoRun' when prompted
11. Change the 'Trap in Use' to the new trap no. now in chiller
12. [Check that FLWTb reads 60 +/- 5 sccm, FLSP reads 100 +/- 5 sccm, and Pfridge is < 1200 torr](#)
13. Confirm no USB errors - note otherwise
14. Log the event in the Cruise Data Report
15. Check the fan on the 01 deck intake. Running? (yes/no)
16. Date and Time (GMT) of weekly maint 18 JUNE 2016 1412
17. Scan this log sheet, store it on the D: drive of the ET computer and email a copy to Britt Stephens ([stephens@ucar.edu](mailto:stephens@ucar.edu)) and Andrew Watt ([watt@ucar.edu](mailto:watt@ucar.edu))