

From: et@lmg.usap.gov
Sent: Saturday, November 12, 2016 4:47 AM
To: et@lmg.usap.gov
Subject: Oxygen System Weekly Maintenance: Sat Nov 12 04:47:01 GMT 2016

Oxygen System Weekly Maintenance

Date: Sat Nov 12 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 700 / 4.0
 - o MS 1000 / 4.0
 - o LS 800 / 4.0
 - o LT 1900 / 4.0
 - o WT1 900 / 3.5
 - o WT2 2000 / 4.0

Found gas bottle valve closed.
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. Select Run | Start in the MS VB screen
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 +/- 10 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 12 Nov 2016, 1151 GMT
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) and Andrew Watt (watt@ucar.edu)