Oxygen System Weekly Maintenance

Date: Sat Oct 22 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](#)  
   - click STOP in main window  
   - 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  
   - new trap "#", now in chiller:   
   - old trap "#", now in dryer:  
4. Open the right side of the cylinder box and note the high-side and low-side regulator pressures  
   - HS: 700 / 2.5  
   - MS: 1000 / 3.5  
   - LS: 700 / 3.5  
   - LT: 1800 / 3.5  
   - WT1: 1.850 / 3.5  
   - WT2:  
   Ideally, all six low side cylinder pressures read 3.0 +/- 1.0 psg. Note any outliers
5. Close up the cylinder box
6. Check if the peristaltic pump inside the Manifold box is spinning.
7. Confirm PC time is syncing with GMT time (yes/no)
8. Select Run | Start in the MS VB screen
9. Click 'Enter in AutoRun' when prompted
10. Change the 'Trap in Use' to the new trap no. now in chiller
11. Check that FLWTb reads 60 +/- 5 scem, FLSP reads 100 +/- 10 scem, and Pfridge is < 1200 torr
12. Confirm no USB errors - note otherwise
13. Log the event in the Cruise Data Report
14. Check the fan on the 01 deck intake. Running? (yes/no)
15. Date and Time (GMT) of weekly maint  
16. 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)