

LMG ET

From: et@lmg.usap.gov
Sent: Saturday, June 27, 2015 4:47 AM
To: et@lmg.usap.gov
Subject: Oxygen System Weekly Maintenance: Sat Jun 27 04:47:01 GMT 2015

Oxygen System Weekly Maintenance

Date: Sat Jun 27 04:47:01 GMT 2015

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

- Connect to the oxygen instrument using RDP
 - click STOP in main window
 - close program with (red X)
- 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
- Swap out the O2 system moisture trap and note new trap positions
 - new trap "#", now in chiller: 2
 - old trap "#", now in dryer: 3
- Open the right side of the cylinder box and note the high-side and low-side regulator pressures
 - HS 1800 / 3
 - MS 1600 / 3
 - LS 1300 / 3
 - LT 600 / 3
 - WT1 600 / 3
 - WT2 _____ / _____
- Ideally, all six low side cylinder pressures read 3.0 +/- 1.0 psig. Note any outliers
- Close up the cylinder box
- Check if the peristaltic pump inside the Manifold box is spinning. (yes/no)
- Confirm PC time is syncing with GMT time (yes/no)
- Restart program with go2.exe shortcut on desktop
- Click 'Enter in AutoRun' when prompted
- Change the 'Trap in Use' to the new trap no. now in chiller
- Check that FLWTb reads 50 +/- 5 sccm, FLSP reads 100 +/- 5 sccm, and Pfridge is < 1000 torr
- Confirm no USB errors - note otherwise
- Log the event in the Cruise Data Report
- Check the fan on the 01 deck intake. Running? (yes/no)
- Date and Time (GMT) of weekly maint 0845 30 JUNE 2015
- 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)

This is an automated message from /usr/local/admin/oxygen/weekly_maint and the letter "Q"

Pfridge after swap 815 Torr.

End of Cruise

- Log into instrument PC, click STOP in main window, and close program (red X)
- Copy all new data files (*.mr and *.hr in Desktop\DATA) to a USB pen drive
- Shut down Windows XP (Start Menu / Shut Down)
- Power down Analyzer Box, Manifold Box, and Inlet Box (3 round green buttons)
- Unless port call is more than two weeks, leave chiller ON CHILLER UNPLUGGED
- If system will be down for more than 1 week, close all cylinder head valves
- Mail a pen drive with all data files from the cruise (and any Maintenance Logs if not emailed) to:

Dr. Britton Stephens
NCAR Research Aviation Facility
10802 Airport Ct.
Broomfield, CO 80021 USA

(note that a stock of USB pen drives and envelopes are kept in the spares kit)