

**MSG 033A - RED FD04 MISSION SUMMARY**

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Good morning Red! Keep up the great work. The ground control team is pleased with the successes of this mission so far. Columbia continues to perform well.

It was another great day for Spacehab science despite a minor setback to the LSP timeline. The plan for you today is to reattempt the execution of LSP run 1 where you had expected to perform LSP run2. Today's timeline reflects this delta.

PHAB-4 would like to thank Laurel for going way beyond the call of duty for the sake of Tracer Infusions and Blood Draws! BDS-05 thanks KC for all the hard work troubleshooting the fan/temperature problem. The ARMS team is very pleased with their data and would like you to have a well-deserved brief reprieve from their activities.

FREESTAR is continuing to function well. Great work by the crew on the MEIDEX observations! We are still hoping for a break in the clouds. SOLCON, SOLSE, CVX-2 and LPT are functioning well. SOLSE eagerly awaits their limb observations today.

Have a great day and we'll be here to help if we can.

YOUR CURRENT ORBIT IS: 156 X 145 NM

NOTAMS:

- EDWARDS (EDW) – LAKEBEDS RED/STANDING WATER
- WHITE SANDS (NOR) – GREEN
- KING KHALID (KKI) – 15L/33R CLOSED
- NASSAU INTL (YNN) – RWY32 DISP THRESHOLD 3000 FT
- BEN GUERIR (BEN) – NOT RECOMMENDED
- BANJUL (BYD) – NOT RECOMMENDED
- MONROVIA (LRB) - NOT RECOMMENDED
- TAMANRASSETT (ATT) - NOT RECOMMENDED
- LAS PALMAS (GDV) - CLOSED 21 JAN 0700-1500Z
- SOUDA (GSA) – NOT SUPPORTING
- DYESS (DYS) – NOT USABLE

NEXT 2 PLS OPPORTUNITIES:

- EDW04 ORB 51      03/04:02
- EDW22 ORB 67      04/04:03

OMS TANK FAIL CAPABILITY:

- L OMS FAILS:      YES (SHALLOW TARGETS)
- R OMS FAILS:      YES (SHALLOW TARGETS)

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1 LEAKING OMS PRPLT BURN:  
 2  
 3 L OMS LEAK: BURN OUT-OF-PLANE AN + 9 <= TIG <= AN + 44  
 4 R OMS LEAK: BURN OUT-OF-PLANE AN + 9 <= TIG <= AN + 44

5  
 6  
 7 OMS QUANTITIES(%)

8  
 9 L OMS OX = 34.1 R OMS OX = 34.2  
 10 FU = 33.8 FU = 33.8

11  
 12 DELTA V AVAILABLE:

13  
 14 OMS 317 FPS  
 15 ARCS (TOTAL ABOVE QTY1) 37 FPS  
 16  
 17 TOTAL IN THE AFT 354 FPS  
 18  
 19 ARCS (TOTAL ABOVE QTY2) 66 FPS  
 20 FRCS (ABOVE QTY 1) 46 FPS  
 21  
 22 AFT QTY 1 89 %  
 23 AFT QTY 2 51 %  
 24  
 25  
 26

<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
Photo/TV	70mm Hasselblad (S/N 1036) motor drive hangs intermittently	Camera may not be available for use	Ref MSG 30 for additional troubleshooting. Use other Hasselblad or advance film manually
SHAB BDS-05	BDS-05 incubator temperature high. Crew performed MP-04 and found that BDS-05 fans are OFF.	If incubator temperature remains above 38 deg. C, 90% science loss will result.	Fans were recovered and module temperature lowered to cool incubator
SHAB VDS	VDS lost the ability to command.	Commands sent to the VDS unit had no effect and status of the VDS could not be received.	Crew cycled power at approximately 02/06:41 and VDS has been operating nominally since.

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