

MSG 064A - RED FD06 MISSION SUMMARY

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2 Good morning Red. We are continuing to plan for an IFM on the WSA. This will most likely
3 occur on your shift tomorrow (Red FD7). However, for the present, we have achieved some
4 stability between the SHAB water loop and SHAB airflow temperatures with your current
5 heat loads. This stability was achieved by configuring the Air Bypass Valve and Water Flow
6 Control Valve such that the water loop temperature is near or above the dew point of the
7 circulation air. In this configuration, we believe we are not generating more condensate in
8 the WSA area. We also believe we may have some margin to absorb even greater heat
9 loads if required without increasing the SHAB cabin temperature too much. Unfortunately,
10 we were forced to cancel your VCD run for today due to the higher temperature of the SHAB
11 water loop. We are currently evaluating techniques to conduct VCD runs should the IFM not
12 be required or be unsuccessful. Throughout your day today, please advise if you see any
13 visible moisture coming from the SHAB air ducts.

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15 Many thanks to Laurel from VCD for the special attention she gave us yesterday. Her extra
16 observations of the water samples were very valuable and show our system to be operating
17 as expected. This is great news for the future ISS water recovery hardware.

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19 Great work on the first SOLSE science set. The SOLSE team can't wait to get their hand on
20 the data. We hope these direct Sun attitudes for SOLCON help dry out those towels in the
21 SpaceHab.

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23 Great job keeping up on all the Orbiter maneuvers. Your attention to detail is obvious.
24 Have a great day conducting science in orbit.

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27 YOUR CURRENT ORBIT IS: 155 X 143 NM

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29 NOTAMS:

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

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43 NEXT 2 PLS OPPORTUNITIES:

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45 EDW22 ORB 83 05/04:04
46 EDW22 ORB 98 06/02:29

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48 OMS TANK FAIL CAPABILITY:

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50 L OMS FAILS: YES (SHALLOW TARGETS)
51 R OMS FAILS: YES (SHALLOW TARGETS)

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<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
COMM	Loss of recording capability on the DSR20	Loss of MEIDEX recording and playback capability. (realtime thruput not affected.)	Connect a V10 recorder to the DTV MUX system at the VTR out connector for record. For playback, use the PAO camcorder connected to the DTV MUX.
SHAB	RS2 shutdown due to short. RS1 was previously shut down	Loss of ability to remove condensate from SH CHX	FPVs have been configured to ICH/PL in attempt to raise CHX water inlet temperature above dewpoint to minimize condensation. ABV set to 0% by-pass (Full Flow to CHX) to keep SH air temperature below 80F. SH ECS is also providing ground commanding of the WFCV to bypass water around the PHX to maintain the CHX water supply temperature above the dew point. IFM to restore RS1 in work for Red FD07.
SHAB	BioPack shut down when freezer door opened.	Loss of use of the Freezer to cool samples prior to placing them in PTCU's. This stresses the ability of PTCU's to keep samples cool	Power cycled BioPack to restore power. Samples placed directly into PTCU from incubator, skipping freezer.

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