

MSG 138 - RED FD10 MISSION SUMMARY

1
2 Good morning Rick, KC, Laurel and Ian. Wow, what a crew! For the long grueling hours
3 you've put in getting us to the halfway point in the mission the folks in the FREESTAR
4 POCC want to say a collective thank you to the crew. All your work has been superb and
5 we really appreciate the aces we have flying the SOLSE and MEIDEX machines although
6 both can be a bit temperamental. You're halfway to home.
7
8 Red FD 10 has a few changes from the preflight plan. We have deleted some LPT
9 operations to accommodate additional MSTRS runs. For MEIDEX, you'll notice that we
10 have scheduled a little more time for the calibrations. You'll also see a note in the flight plan
11 to select Auto TIm for MEIDEX ops.
12
13 The VCD team (Cindy Hutchens, Rex Graves and Keith Parrish) would like to express their
14 great appreciation to Laurel and K.C. for their excellent work. VCD FE has finished a very
15 successful mission.
16
17 BIOPACK would like to thank Willie for a valiant effort in cleaning the BIOPACK filter. They
18 greatly appreciate his support and are continuing to develop a big picture plan for BIOPACK
19 operations.
20
21
22
23 YOUR CURRENT ORBIT IS: 153 X 141 NM
24
25 NOTAMS:
26
27 EDWARDS (EDW) – LAKEBEDS RED/STANDING WATER
28 WHITE SANDS (NOR) – GREEN
29 KING KHALID (KKI) – 15R/33L CLOSED
30 NASSAU INTL (YNN) – RWY32 DISP THRESHOLD 3000 FT
31 BEN GUERIR (BEN) – NOT RECOMMENDED
32 BANJUL (BYD) – NOT RECOMMENDED
33 MONROVIA (LRB) - NOT RECOMMENDED
34 TAMANRASSETT (ATT) - NOT RECOMMENDED
35 SOUDA (GSA) – NOT SUPPORTING
36 DYESS (DYS) – NOT USABLE
37
38 NEXT 2 PLS OPPORTUNITIES:
39
40 EDW04 ORB 145 09/00:52
41 EDW04 ORB 161 10/00:51
42
43 OMS TANK FAIL CAPABILITY:
44
45 L OMS FAILS: YES (SHALLOW TARGETS)
46 R OMS FAILS: YES (SHALLOW TARGETS)
47
48 LEAKING OMS PRPLT BURN:
49
50 L OMS LEAK: BURN OUT-OF-PLANE AN + 88 <= TIG <= AN + 47
51 R OMS LEAK: BURN OUT-OF-PLANE AN + 89 <= TIG <= AN + 46

MSG 138 - RED FD10 MISSION SUMMARY

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

OMS QUANTITIES(%)

L OMS OX = 34.1 R OMS OX = 34.2
FU = 33.8 FU = 33.8

SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

OMS	285 FPS
<u>ARCS (TOTAL ABOVE QTY1)</u>	<u>33 FPS</u>
TOTAL IN THE AFT	318 FPS
ARCS (TOTAL ABOVE QTY2)	62 FPS
FRCS (ABOVE QTY 1)	34 FPS
AFT QTY 1	84 %
AFT QTY 2	47 %

<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
SHAB	ARMS PGSC locked up.	Unable to perform ARMS science runs.	Replaced hard drive with spare and recovered operations. Stowed suspect hard drive.

26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44