

## MSG 184 - RED FD13 MISSION SUMMARY

1 Good Morning Red!

2

3 FD 13 is packed full of good things, including family conferences. There are no water  
4 dumps but we do have a maneuver to a wing forward attitude for end of mission tire thermal  
5 conditioning. Ilan, you will find some additional MEIDEX activities added to your timeline.  
6 We have added one step for in cabin recording in support of ground commanded  
7 observations followed by P/TV powerdown. After your meal, there is also an added  
8 MEIDEX Science opportunity to observe some controlled burning in Brazil. For KC, we  
9 added some time to continue troubleshooting CM2 MIST. Mike did some great work while  
10 you slept. We can provide the latest status in the DPC if you like.

11

12 Two thumbs up from FREESTAR to Ilan and Rick for taking simultaneous MEIDEX and  
13 SOLSE observations yesterday! The experimenters can't wait to compare their data. With  
14 more dust in the forecast, and a bonfire campaign in Brazil, MEIDEX operations continue to  
15 be as busy as ever. SOLCON and LPT continue to perform superbly, and CVX is in the  
16 midst of its 4<sup>th</sup> critical period.

17

18 On another note, today Tuesday Jan. 28th at 12/01:00 MET JSC employees will observe a  
19 personal moment of silence to honor the memory of the brave men and women of the Apollo  
20 1 and Challenger crews.

21

22 God's Speed Columbia. Fly Safely!

23

24

25

26

27 YOUR CURRENT ORBIT IS: 152 X 140 NM

28

29 NOTAMS:

30

31 EDWARDS (EDW) – LAKEBEDS RED/STANDING WATER

32 WHITE SANDS (NOR) – GREEN

33 KING KHALID (KKI) – 15R/33L CLOSED

34 NASSAU INTL (YNN) – RWY32 DISP THRESHOLD 3000 FT

35 LAJES (LAJ) - 15/33 LAST 2K OF ACTIVE RWY CLSD 0800-1900Z

36 BEN GUERIR (BEN) – NOT RECOMMENDED

37 BANJUL (BYD) – NOT RECOMMENDED

38 MONROVIA (LRB) - NOT RECOMMENDED

39 TAMANRASSETT (ATT) - NOT RECOMMENDED

40 SOUDA (GSA) – NOT SUPPORTING

41 DYESS (DYS) – NOT USABLE

42

43 NEXT 2 PLS OPPORTUNITIES:

44

45 EDW04 ORB 192 11/23:13

46 EDW04 ORB 208 12/23:11

47

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1 OMS TANK FAIL CAPABILITY:

2  
3 L OMS FAILS: YES (SHALLOW TARGETS)  
4 R OMS FAILS: NO

5  
6 LEAKING OMS PRPLT BURN:

7  
8 L OMS LEAK: BURN OUT-OF-PLANE AN + 86 <= TIG <= AN + 46  
9 R OMS LEAK: ALWAYS BURN RETROGRADE

10  
11 OMS QUANTITIES(%)

12  
13 L OMS OX = 34.1 R OMS OX = 34.2  
14 FU = 33.8 FU = 33.8

15  
16 SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

17  
18  
19 DELTA V AVAILABLE:

|    |                                |               |
|----|--------------------------------|---------------|
| 20 |                                |               |
| 21 | OMS                            | 281 FPS       |
| 22 | <u>ARCS (TOTAL ABOVE QTY1)</u> | <u>32 FPS</u> |
| 23 |                                |               |
| 24 | TOTAL IN THE AFT               | 313 FPS       |
| 25 |                                |               |
| 26 | ARCS (TOTAL ABOVE QTY2)        | 61 FPS        |
| 27 | FRCS (ABOVE QTY 1)             | 31 FPS        |
| 28 |                                |               |
| 29 | AFT QTY 1                      | 83 %          |
| 30 | AFT QTY 2                      | 45 %          |
| 31 |                                |               |

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40 THERE ARE NO FAILURE/IMPACT/WORK AROUNDS FOR TODAY.

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48  
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