



STS-134/ULF6

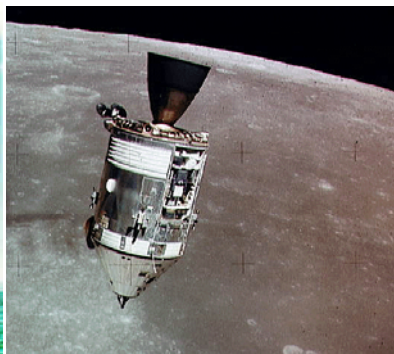
FD 02 Execute Package

MSG	Page(s)	Title
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004	14 - 15	FD02 Mission Summary
005	16	Load DAPS
006	17	ULF6 ROBO Flight Note Incorporation
007	18	SSV Troubleshooting
008	19	FD02 Crew Choice Downlink

Approved by FAO:
T. Clancy



HMS *Endeavour*
(1770)

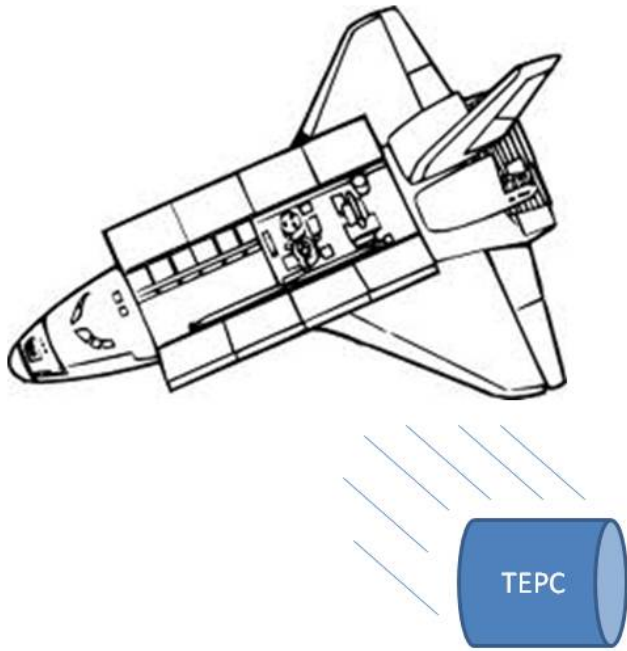


Apollo 15 Command Module *Endeavour*
(July 16, 1971)



Space Shuttle *Endeavour*
(May 7, 1992)

Last Updated: May 17 2011 2:34 AM GMT
JEDI (Joint Execute package Development and Integration), v3.0



FDO: Flight, FDO. USSTRATCOM reports an object drifting away from Endeavour

FD: I didn't think we had deployable payloads...

Surgeon: Looks like...
...is that TEPC!?



MSG 003B - FD02 FLIGHT PLAN REVISION

1 MSG INDEX

2		
3	<u>MSG NO.</u>	<u>TITLE</u>
4	003	FD02 Flight Plan Revision
5	004	FD02 Mission Summary
6	005	Load DAPS
7	006	ULF6 ROBO Flight Note Incorporation
8	007	SSV Troubleshooting
9	008	FD02 Crew Choice Downlink

10
11
12 1. Post-Sleep Cryo Config

13 For today's Post-Sleep cryo config, O2 and H2 Tanks 1 and 5 will be active.

14
15 **A15 CRYO TK5 HTRS O2,H2 A,B (four) - AUTO**

16
17 **R1 O2,H2 TK3 HTRS A,B (four) - OFF**
18 **MANF VLV TK1 (two) - OP (tb-OP)**

19
20 2. Pre-Sleep Cryo Config

21
22 √MCC for deltas prior to configuring for Pre-Sleep.

23
24 For tonight's Pre-Sleep cryo config, Manifold 2 will be closed with O2 and H2 Tanks
25 2 and 4 active.

26
27 **A11 CRYO TK4 HTRS O2,H2 A,B (four) - AUTO**

28
29 **A15 CRYO TK5 HTRS O2,H2 A,B (four) - OFF**

30
31 **R1 O2,H2 TK2 HTRS A,B (four) - AUTO**
32 **TK1 HTRS A,B (four) - OFF**
33 **MANF VLV TK2 (two) - CL (tb-CL)**

34
35
36 3. The MCC has remotely uplinked the latest HazMat data file to the PGSCs.

37
38
39 4. FD2 EVA Deltas:

40
41 From Taz's saddlebag, incorporate the hardcopies of 4.120 DCS TREATMENT into
42 both "Brown stripe" and "No Stripe" copies of **ISS EVA Systems Checklist**.

43
44 Report to **MCC-H** when complete.

45
46 5. AMS has been successfully activated and we're receiving command and telemetry as
47 expected! The AMS team would like to thank the Shuttle team, MOD and the STS-134
48 crew for our much anticipated arrival on-orbit!

49
50 6. REPLACE PAGES 2-4 THROUGH 2-5, 3-8 THROUGH 3-17.

END OF PAGE 1 OF 13, MSG 003B

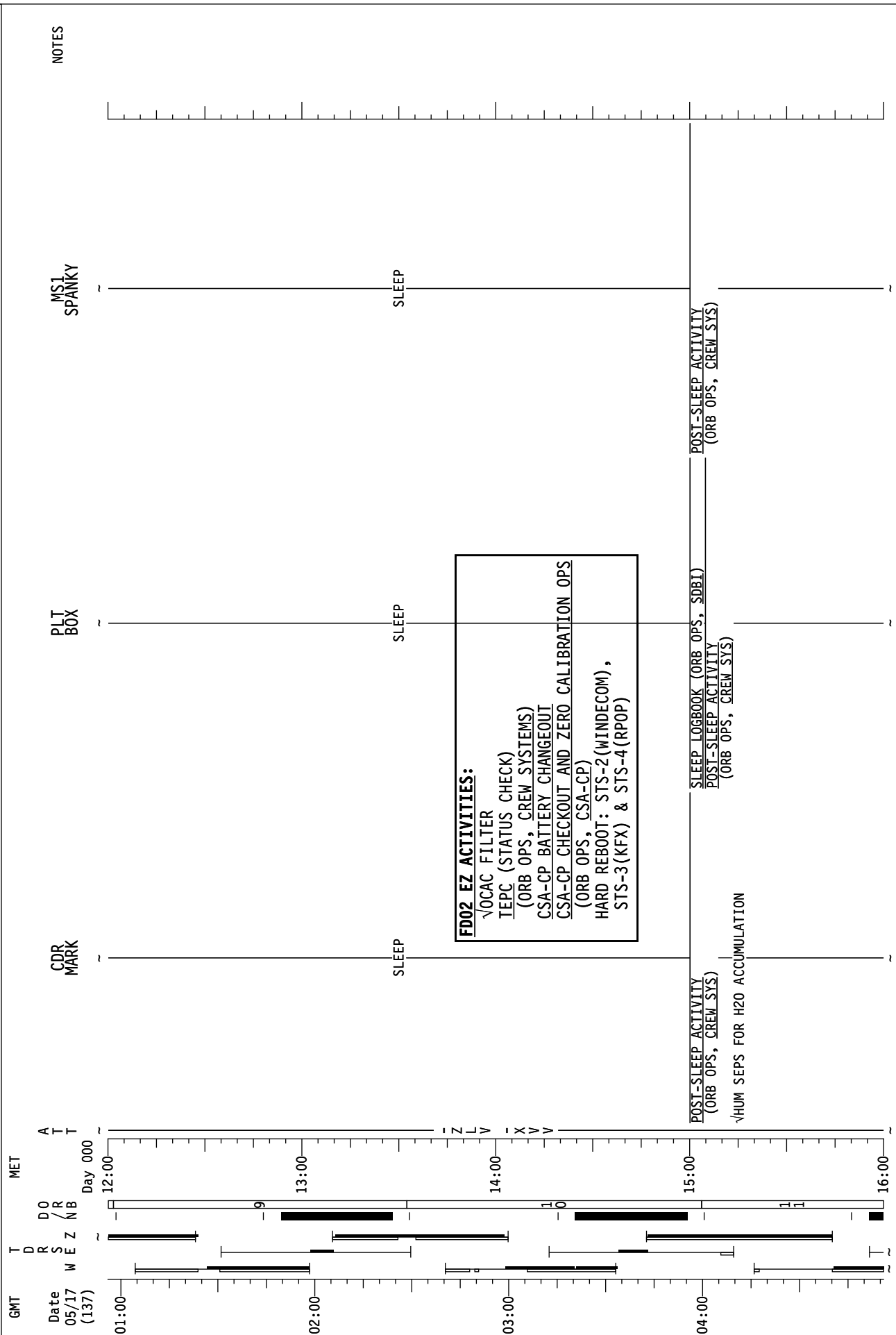
REPLANNED

GMT 05/17/11 (137) MET Day_000 01 12 02 13 03 14 04 15 05 16 06 17 07 18 08 19 09 20 10 21 11 22 12 23 001/00

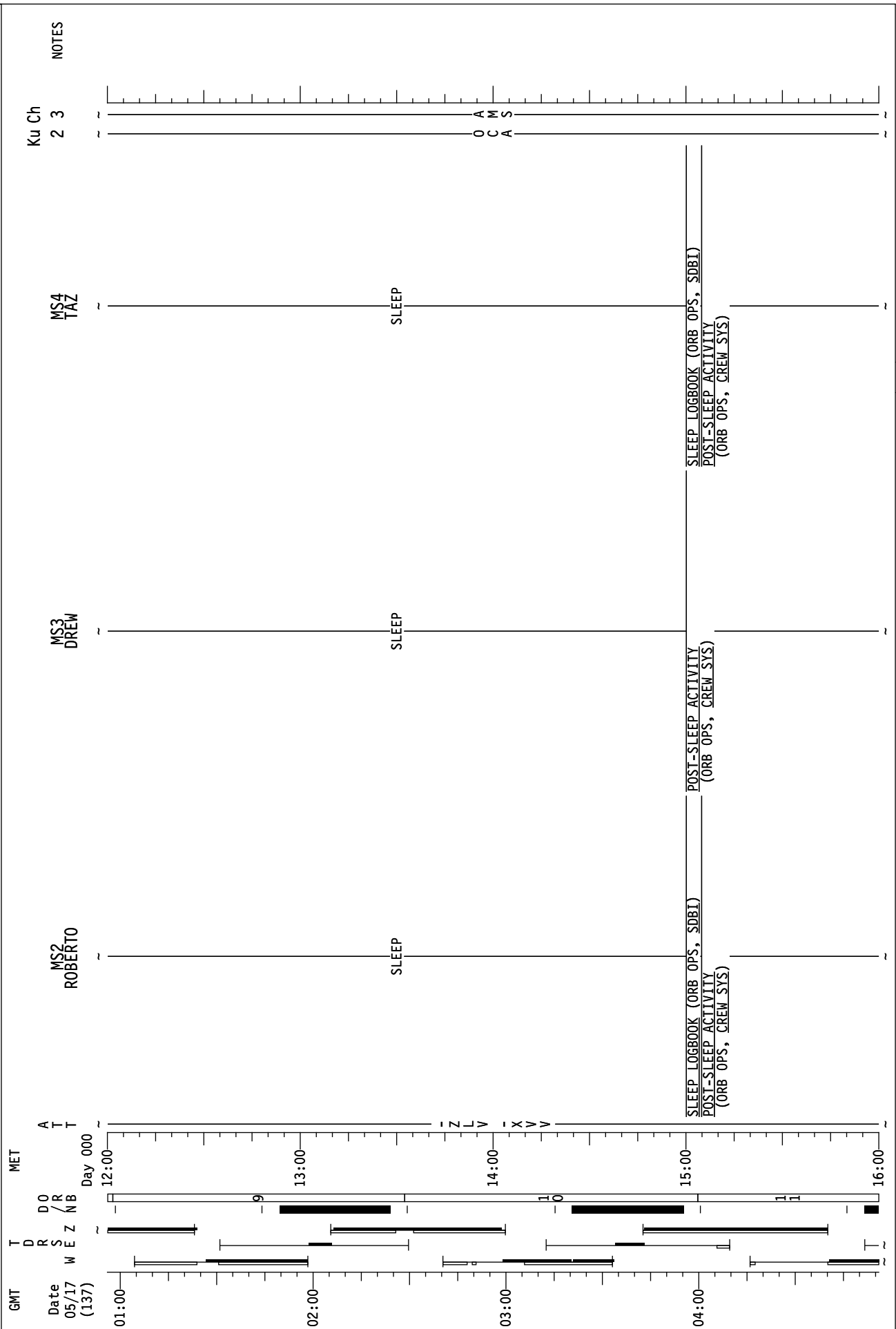
FD02	CDR MARK	SLEEP	POST SLEEP	OMS BURN	POST SLEEP	MDDK XFER PREP	MEAL	MN NO VS RE	MPI PD NOM VRT	NVA LACT PCIT	EMU C/O	LD OA AP DS
	PLT BOX	SLEEP	POST SLEEP	OMS POD SRVY	POST SLEEP	STBD WING SURVEY	MEAL	MS NT VBRD				
	MS1 SPANKY	SLEEP	POST SLEEP		OBSS UNBERTH	STBD WING SURVEY	NOSE CAP SURVEY			MEAL	EMU C/O PREP	
	MS2 ROBERTO	SLEEP	POST SLEEP		OBSS UNBERTH	MDDK XFER PREP	MEAL					
	MS3 DREW	SLEEP	POST SLEEP		ERG SETUP	STBD WING SURVEY	NOSE CAP SURVEY			MEAL	EMU C/O PREP	
	MS4 TAZ	SLEEP	POST SLEEP	PVS / I E LP DT VEU OOP 1	ERG POST SLEEP SETUP	MEAL	NOSE CAP SURVEY					

K	CH 2	OCA															
U	CH 3	AMS															
	DAY/NIGHT ORBIT	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	001/00
	TDRS	W	E	Z													
	ORB ATT	-ZLV -XIV															
	NOTES	*ROMS TO RCS *FILTER CK #STATUS CHECK *B POD HTR RECONFIG															

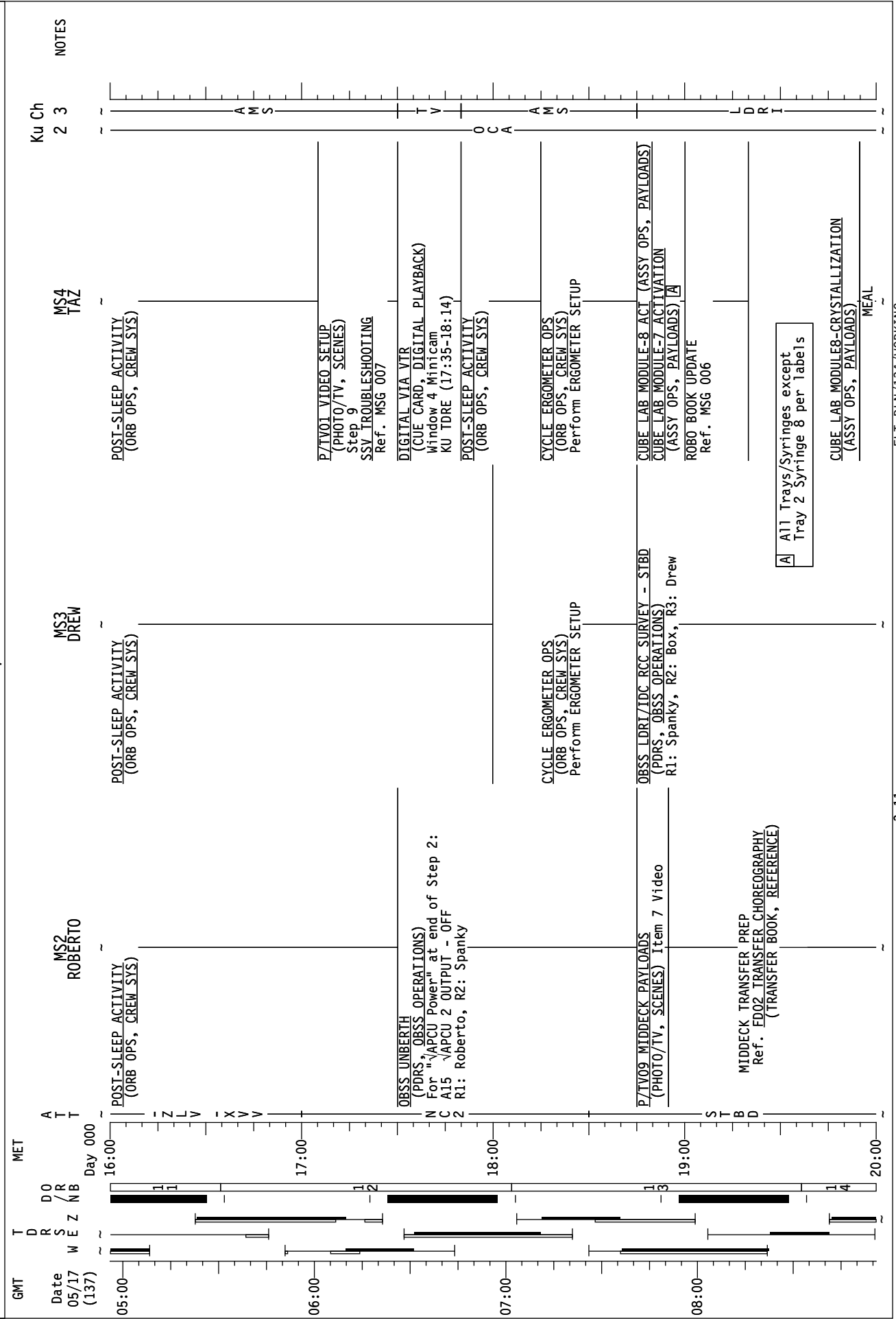
STS-134/ULF6 FD02



STS-134/ULF6 FD02



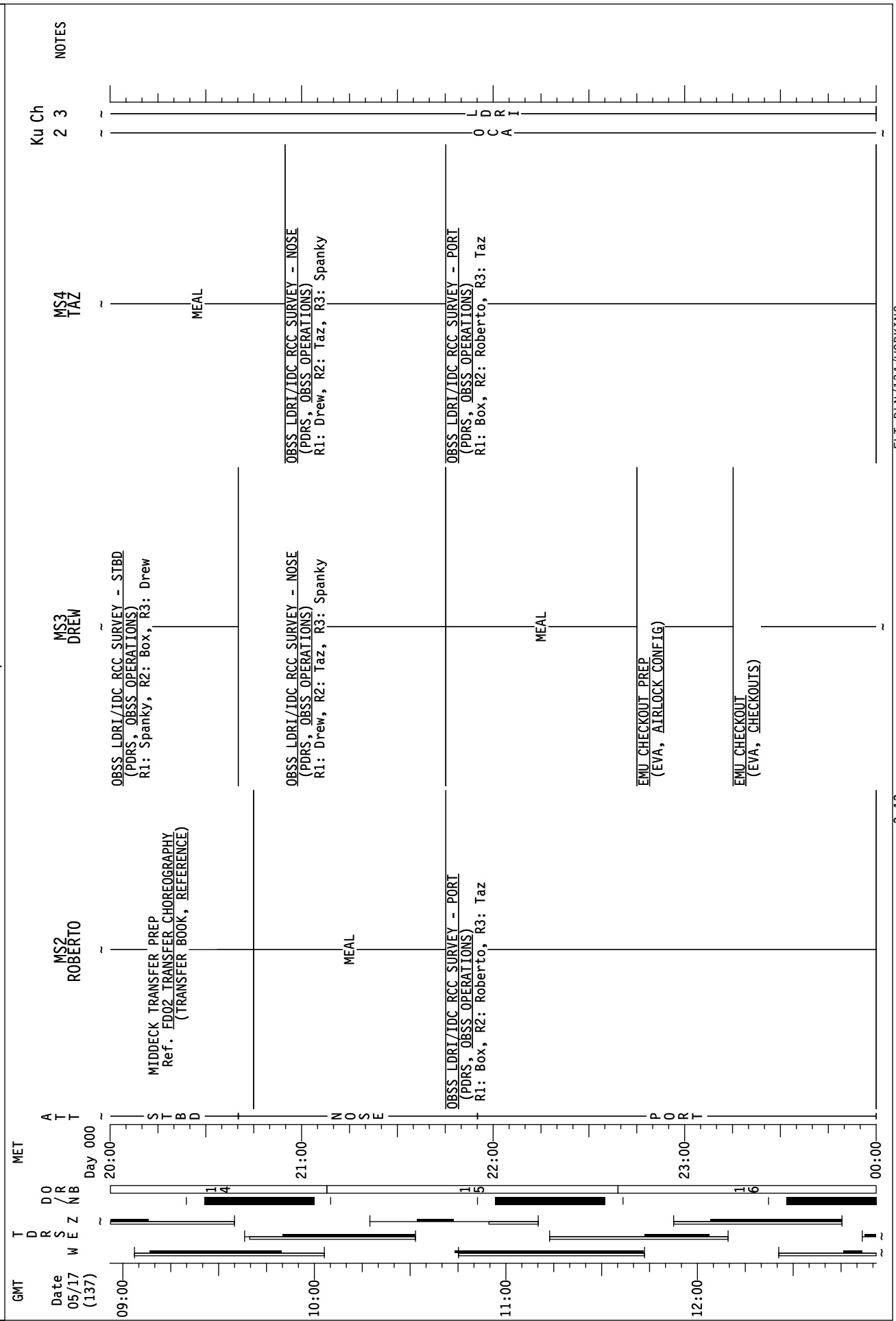
STS-134/ULF6 FD02



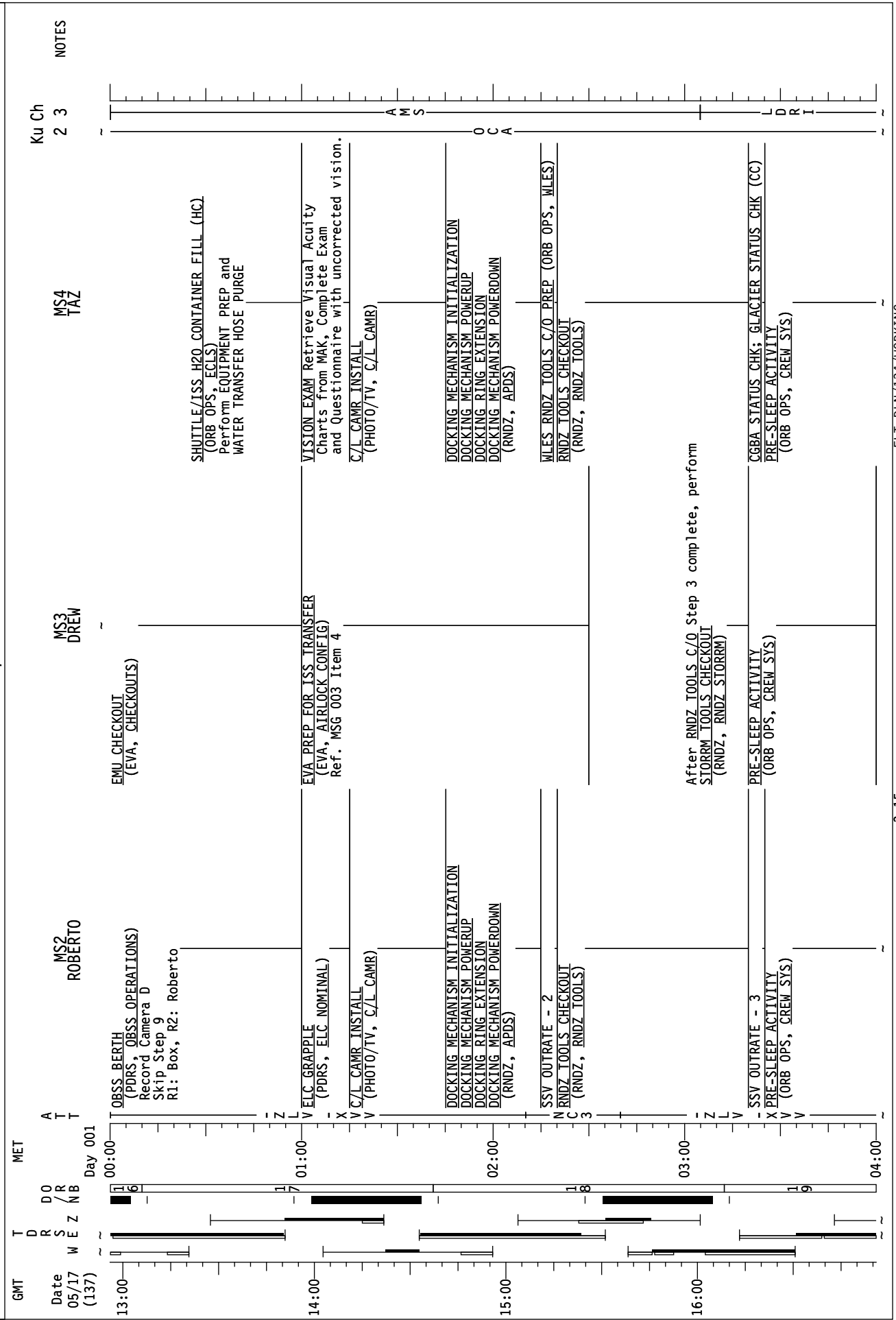
STS-134/ULF6 FD02

GMT	Date 05/17 (137)	T D R S W E Z	DO /R NB	MET Day 000	A T T	CDR MARK	PLT BOX	MS1 SPANKY	NOTES
09:00				20:00	S T D	MIDDECK TRANSFER PREP Ref. FD02 TRANSFER CHOREOGRAPHY (TRANSFER BOOK, REFERENCE)			
10:00				21:00	N O S E	MNVR (TRK) BIAS +XSI (NOSE CAP SURVEY) TG=4 BV=5 P=330 Y=0 OM=295 A14/AUTO/VERN, RCC SRVY-STBD cmlpt, Init TRK			OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS OPERATIONS) R1: Spanky, R2: Box, R3: Drew
11:00				22:00		MEAL			OBSS LDRI/IDC RCC SURVEY - NOSE (PDRS, OBSS OPERATIONS) R1: Drew, R2: Taz, R3: Spanky
12:00				23:00	P R T	MEAL			MEAL
00:00				00:00		LOAD DAPS Ref. MSG 005			EMU CHECKOUT - PREP (EVA, AIRLOCK CONFIG)

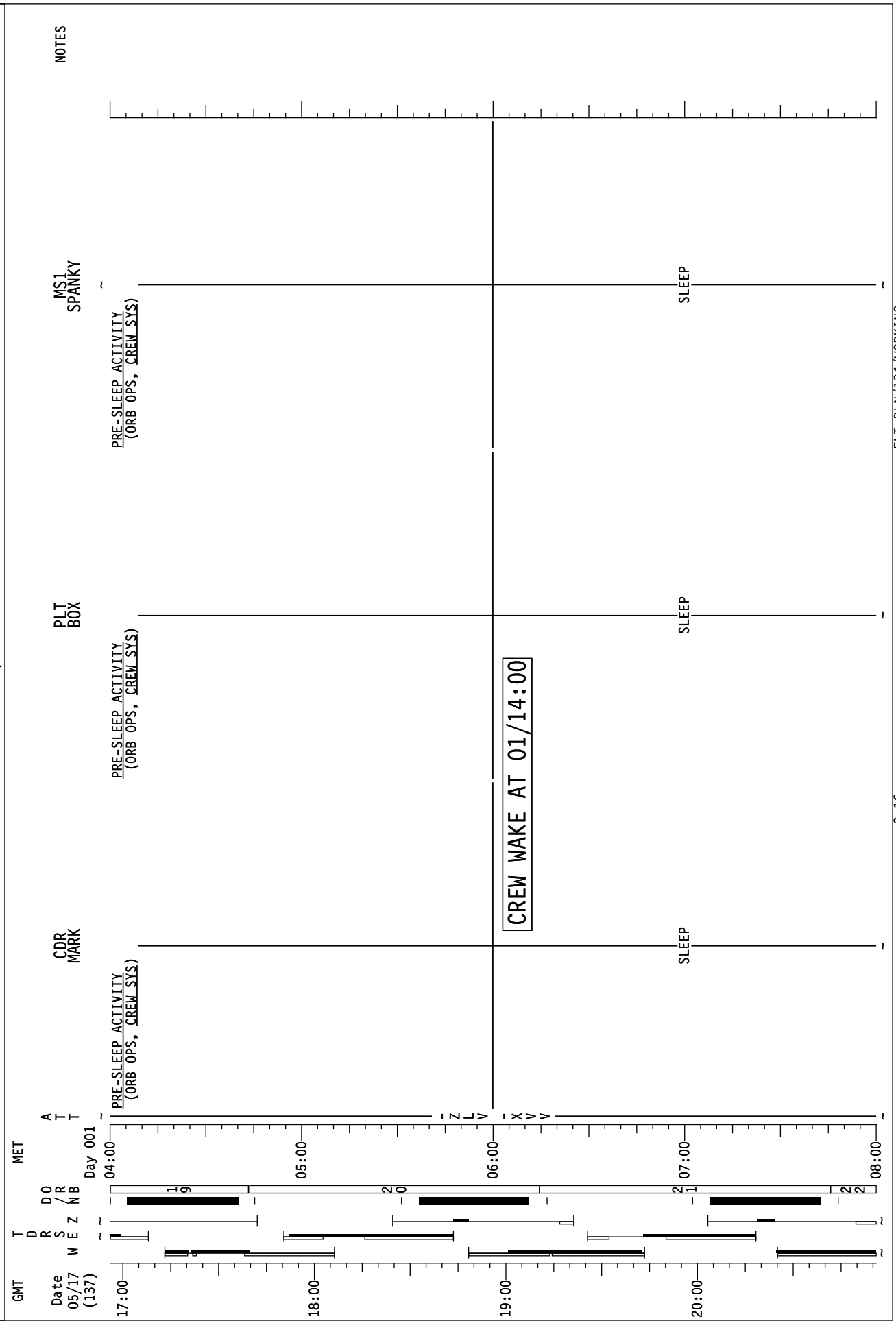
STS-134/ULF6 FD02



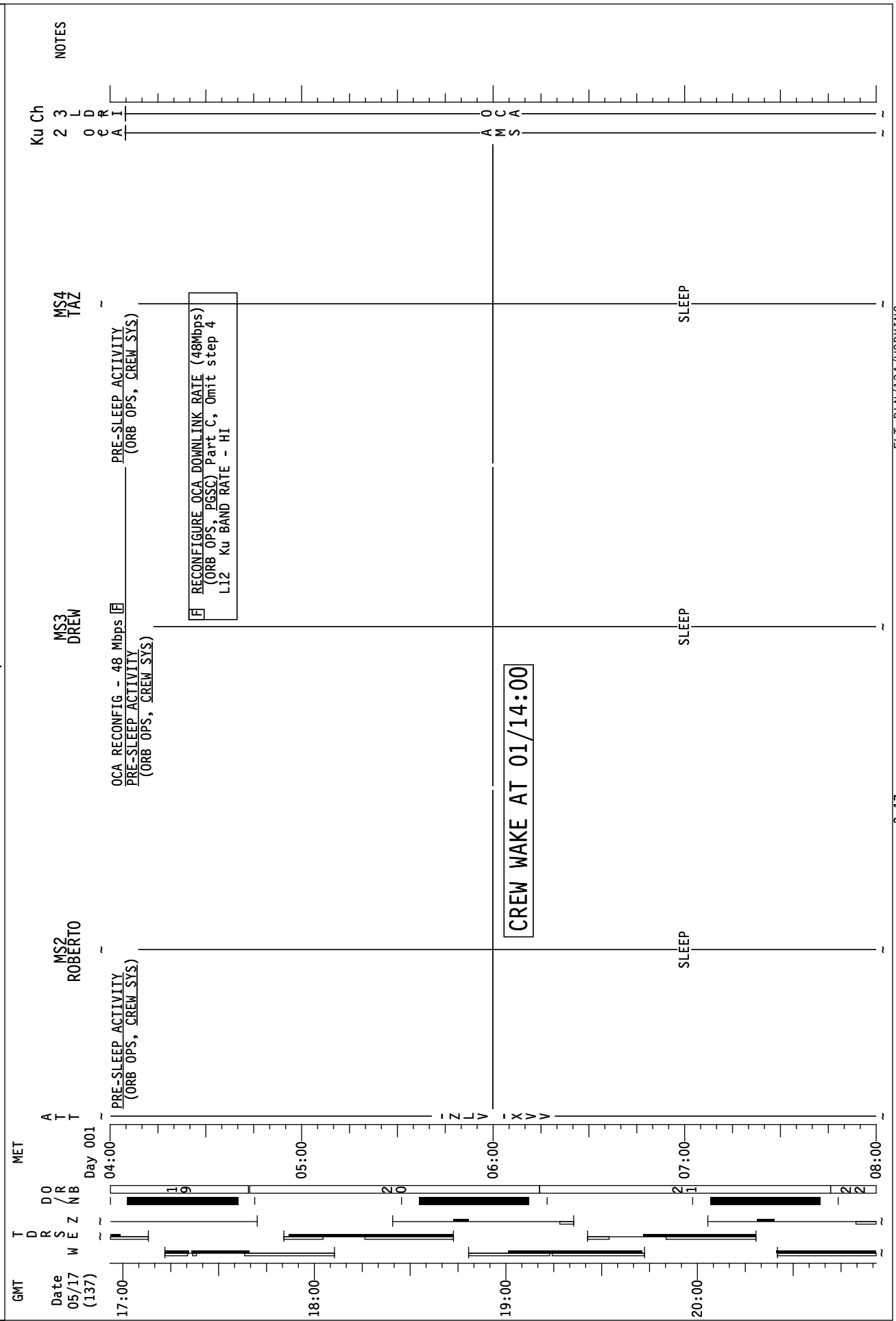
STS-134/ULF6 FD02



STS-134/ULF6 FD02



STS-134/ULF6 FD02



MSG 004 - FD02 MISSION SUMMARY

1 Good Morning Endeavour!!!

2

3 What a spectacular launch!!!

4

5 Endeavour never looked so good!!!!

6

7

8 YOUR CURRENT ORBIT IS: 178 X 175 NM

9

10 NOTAMS -

11

12 EDW - EDW 22L/04R IN USE. EDT 22R/04L EMERGENCY DAY USE ONLY.

13

EDW - LAKEBED RWYS RED.

14

NOR - LAKEBED RWYS GREEN.

15

NTU - RWY 05R/23L CLSD.

16

FFA - NOT USABLE. IN CARETAKER STATUS.

17

LAJ - RWY WIDTH REDUCED TO 154' - EAST SIDE OF RWY CLSD.

18

BEN - NOT USABLE. NOT SUPPORTED.

19

IKF - NOT USABLE. NO AGREEMENT

20

21 NEXT 2 PLS OPPORTUNITIES:

22

23 NOR17 ORB 17 – 1/01:02 SCT250 7 190/13P20

24

KSC15 ORB 31 – 1/22:16 SCT030 7 270/10P15

25

26 OMS TANK FAIL CAPABILITY:

27

28 NO

29

30 LEAKING OMS PRPLT BURN:

31

32 L or R OMS LEAK: ALWAYS BURN RETROGRADE

33

34 OMS QUANTITIES(%)

35

36 L OMS OX = 32.96 R OMS OX = 32.76

37

FU = 32.96 FU = 32.37

38

39

40 DELTA V AVAILABLE:

41

42 OMS 302 FPS

43

ARCS (TOTAL ABOVE QTY1) 33 FPS

44

45 TOTAL IN THE AFT 335 FPS

46

47 ARCS (TOTAL ABOVE QTY2) 62 FPS

48

FRCS (ABOVE QTY 1) 31 FPS

49

50 AFT QTY 1 83 %

51

AFT QTY 2 45 %

END OF PAGE 1 OF 2, MSG 004

MSG 004 - FD02 MISSION SUMMARY

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2

<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
Landing/ Decel	Right NLG Tire Press 2 instrumentation was slightly erratic just after liftoff and again post-MECO. It was otherwise nominal.	Right NLG Tire Press 2 (SM SPEC 087, TIRE PRESS NG RIGHT 2) may not be correct.	Right NLG Tire Press 1 can be used for monitoring (SM SPEC 087, TIRE PRESS NG RIGHT 1).

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END OF PAGE 2 OF 2, MSG 004

MSG 005 - FD02 LOAD DAPS

1 To load the flight specific DAPs with the initial docked mass properties through AMS
2 grappled by the SSRMS (FD04), perform the following:

3
4
5 GNC 20 DAP CONFIG

6
7 Permanent Edit DAP A11 with CNTL ACC 8

8 ITEM 3+11 EXEC
9 ITEM 68+8 EXEC
10 ITEM 5 EXEC

11
12 Permanent Edit DAP A12 with CNTL ACC 8

13 ITEM 3+12 EXEC
14 ITEM 68+8 EXEC
15 ITEM 5 EXEC

16
17 Permanent Edit DAP B12 with CNTL ACC 8

18 ITEM 4+12 EXEC
19 ITEM 68+8 EXEC
20 ITEM 5 EXEC

21
22 Permanent Edit DAP B13 with CNTL ACC 8

23 ITEM 4+13 EXEC
24 ITEM 68+8 EXEC
25 ITEM 5 EXEC
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MSG 006 - ULF6 ROBO FLIGHT NOTE INCORPORATION

1 Retrieve ISS ROBOTICS FS books [Qty 2] from MF71G and Ziplock bag labeled 'MS4
2 Chamitoff' containing ROBO procedure 2.340 from MS4 Seat Bag.

3

4 PLT (Y) copy

5 Remove pages 359 thru 364

6 Add pages 359 thru 363e

7

8 MS4 (Br) copy

9 Remove pages 359 thru 364

10 Add pages 359 thru 363e

11

12 Place discarded pages in the STS common trash

13

14 Restow ISS ROBOTICS FS books [Qty 2] in MF71G

15

16 **Report completion to MCC-H.**

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MSG 007 - SSV TROUBLESHOOTING

1 We are unable to process any SSV images on the ground, and request the status of the
2 following to verify the config of the SSV system.

3
4 SSV PWR LED
5 ENC DATA LED flickering
6 FRAME DATA LED flickering
7 FILL FRAME pulsing
8
9

10
11 On MCC GO:

12
13 Cycle PWR on SSV Compression Encoder
14 SSV PWR - 0 (Off)
15 Wait 5 seconds
16 SSV PWR - 1 (On)
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MSG 008 - FD02 CREW CHOICE DOWNLINK

TDRS	AOS	LOS	Delta (min)	Notes
W-TDW	1/03:06	1/03:26	20	
E-TDS	1/03:35	1/04:02	27	Alpha stop at 1/03:43
E-TDS	1/05:20	1/05:46	26	
W-TDW	1/06:18	1/06:46	30	

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