



STS-128/17A

FD 03 Execute Package

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Approved by FAO:
Tobin Melroy

Last Updated: Aug 30 2009 4:39 PM GMT
JEDI (Joint Execute package Development and Integration), v3.0

08/30/09 09:38:57

REPLANNED

GMT 08/31/09 (243) 04 05 06 07 08 09 10 11 12 13 14 15 16
 MET Day_002 002/00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

FD03 CDR STURCKOW	MDDK XFER		PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP
	OB SP SL	BR UNBRTH	U H N/ G O R P	SSRMS OPS REVIEW	P O L P Y S B K	PRE SLEEP
PLT FORD	OB SS *	OBSS H/O	OBSS H/O	OBSS H/O	PRE SLEEP	SLEEP
MS1 FORRESTER	OB SS *	OBSS H/O	OBSS H/O	OBSS H/O	PRE SLEEP	SLEEP
MS2 HERNANDEZ	OB SS *	COND S CWC S/U	PCS OBSS H/O	OBSS H/O	PRE SLEEP	SLEEP
MS3 OLIVAS	P/TV06	M M U E L T E I R	MDDK XFER	PRE SLEEP	X T F A P R E X F E R B R I E F	PRE SLEEP
MS4 FUGLESANG			MDDK XFER	PRE SLEEP		SLEEP
MS5/ FE-2 EXP20 STOTT	EX MDS OV CK	SOKOL L K C K		PMCDPC	G L A C R #	SLEEP
DAY/NIGHT ORBIT	33	34	35	36	37	38
TDRS W E Z						
ATTITUDE						
NOTES	*TELK RWL & XFER @T-C/O ACY-PREP #STATUS CHECK *H/O NO EXERCISE (OBSS)					

MSG 010A - FD03 FLIGHT PLAN REVISION

1 MSG INDEX

2

3 <u>MSG NO.</u>	<u>TITLE</u>
4 010	FD03 Flight Plan Revision
5 011	FD03 Mission Summary
6 012	FD03 Transfer Message
7 013	FD03 Crew Choice Downlink
8 014	OBSS Handoff Procedure Updates
9 015	FD03 Rendezvous Package
10 016	STS-128/17A Emergency Agreements

11

- 12 1. **AC3 Mid 2 Circuit Breaker** - The MA73C:C AC3 Mid 2 circuit breaker that was difficult
13 to close during OBSS Berth yesterday will also be opened and closed for future OBSS
14 operations. A similar issue with this circuit breaker was reported on STS-120, but not on
15 STS-119, which was the last time this vehicle flew.

16
17 We have seen good conductivity through this circuit breaker throughout this flight. There
18 are no issues with continuing use of this circuit breaker.

- 19
20 2. **OBSS Handoff Updates** - Due to the venting of the P1 ATA prior to EVA 1, the OBSS
21 must be moved from the MPLM Viewing position to avoid contamination of the LCS after
22 OBSS handoff to the SRMS. MSG014 contains the required steps and is referenced in
23 the Detailed Timeline. The OBSS will be maneuvered back to the MPLM Viewing
24 position just prior to EVA 1 after the ATA vent has been closed.

- 25
26 3. **TriDAR** - As a reminder, once TriDAR is set up and running on STS3 (KFX PGSC), you
27 will be unable to view/access messages from the network. Any messages that you need
28 during the time TriDAR is running will need to be printed out before you begin TriDAR.
29 In addition, Outlook will not be available during this time.

- 30
31 4. **Simo Dump Details** - Perform a simo dump using SUPPLY/WASTE WATER DUMP
32 (ORB OPS, ECLS) p. 5-2. Perform Steps A through I only. Do not perform step J.
33 MCC will TMBU FDA in steps B and K.

34
35 Supply dump valve open time will be 20 minutes.

36
37 Dump the waste tank to 5%. Waste dump valve open time will be ~25 minutes.

- 38
39 5. **Shuttle Condensate Collection Details** - Perform SETUP of SHUTTLE
40 CONDENSATE COLLECTION (ORB OPS, ECLS) p. 5-40. The Y-Y Condensate Hose is
41 located in MF28O. The Condensate CWCs are located in NOD2O2. Use any one of
42 CWC S/Ns 1054, 1062 or 1070 and report CWC S/N to MCC.

- 43
44 6. **Emergency Agreements** - The STS-128/17A Emergency Agreements are attached in
45 MSG016 for your reference.

46
47
48
49
50
END OF PAGE 1 OF 12, MSG 010A

MSG 010A - FD03 FLIGHT PLAN REVISION

1 7. **MUX Config** - To aid us in understanding the 48 Meg OCA problems during
2 FD2, we would like to verify the overnight configuration of the DTV Mux. Were the
3 switches in the following positions?
4

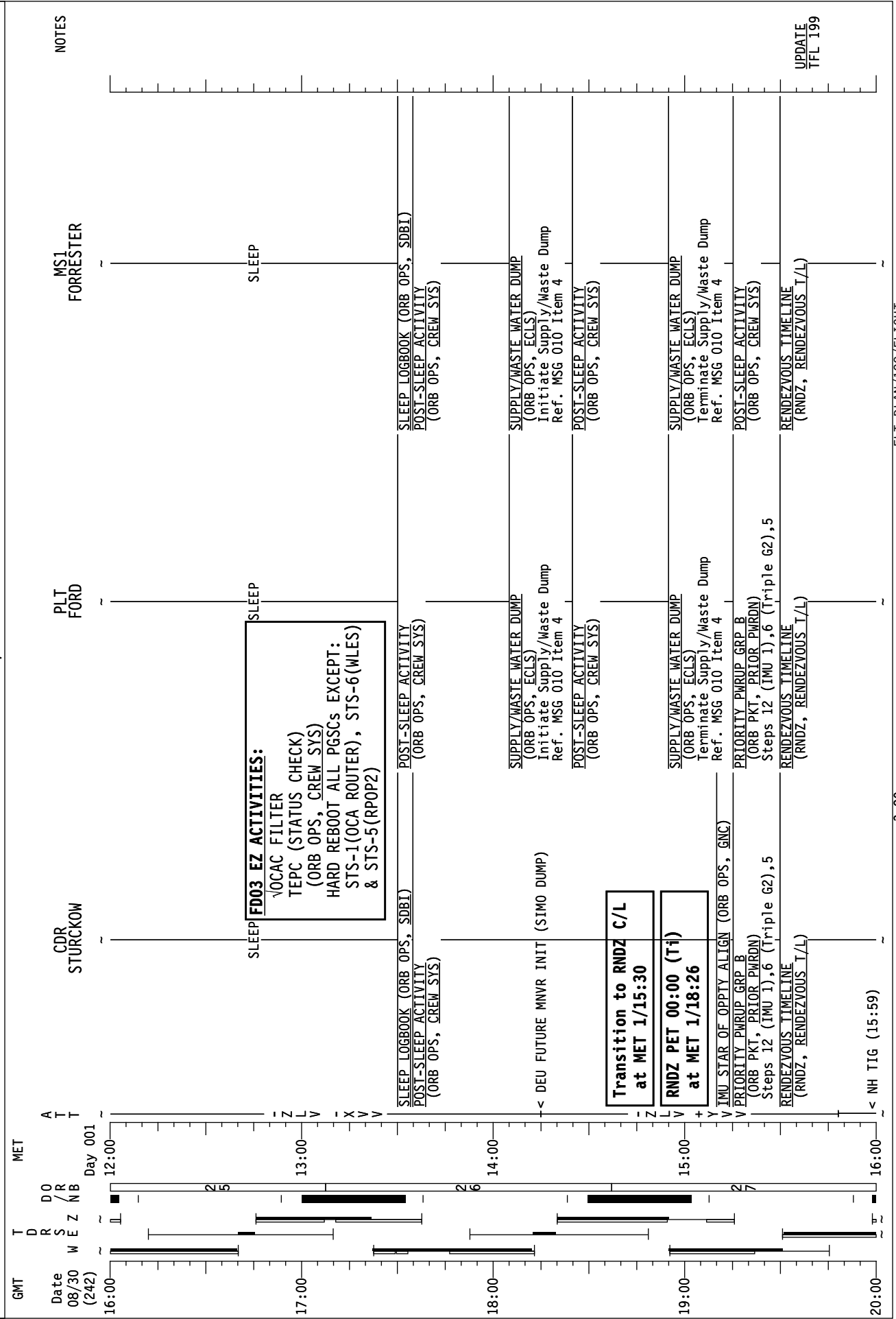
5 L10 MUX/VTR/CC – ON
6 L10 MUX BYPASS – ACT
7

8 8. **OMS Pod Image Location** - Due to the limited KU availability today, we would like to
9 prioritize downlinking the OMS Pod Survey images above other DCS images. Could you
10 look in the e:\oca-down\imagery\card001-fd02 folder on STS-3 (KFX) and let us know
11 which images are from the OMS Pod Survey?
12

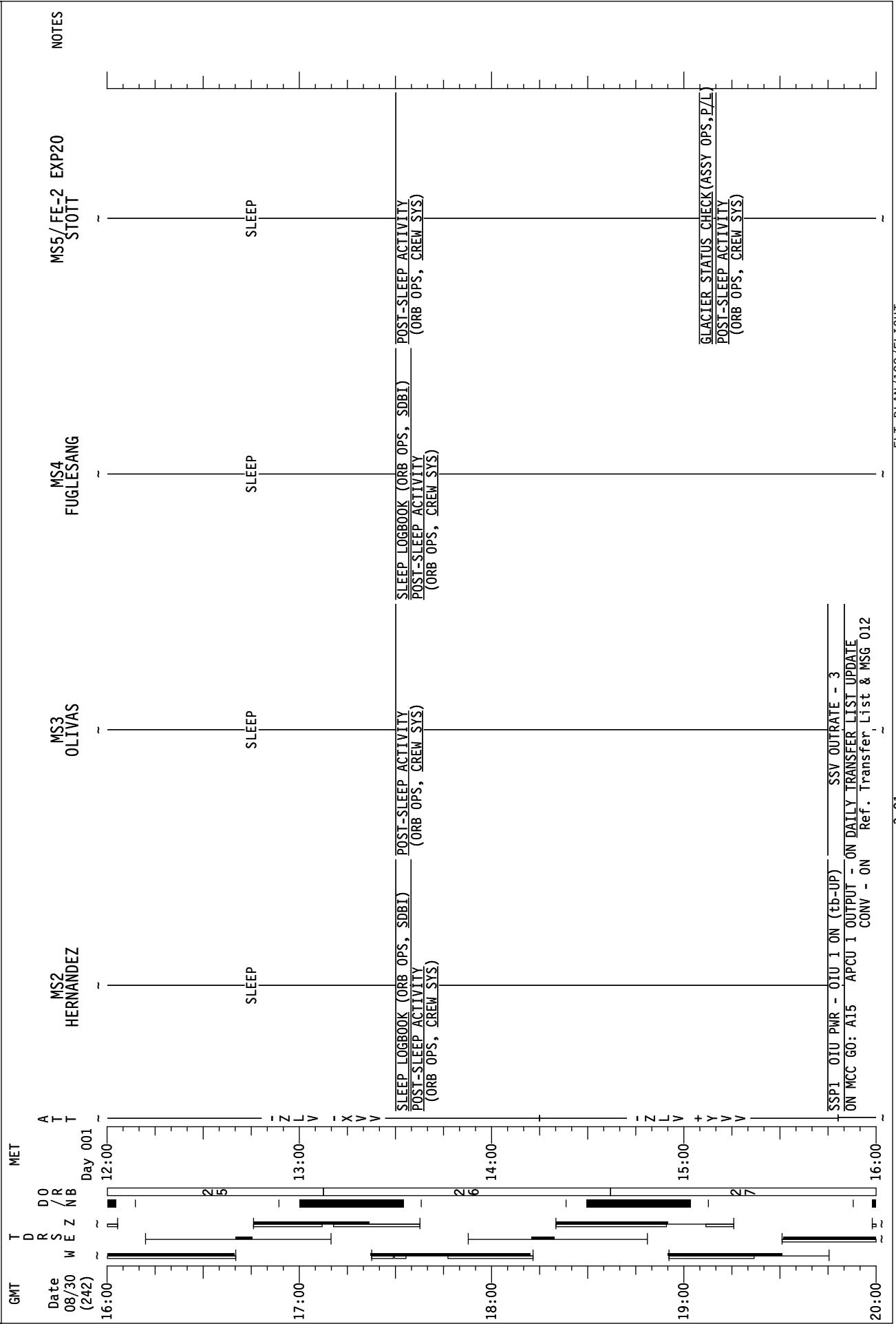
13 9. Replace pages 3-20 through 3-29.
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END OF PAGE 2 OF 12, MSG 010A

STS-128/17A FD03



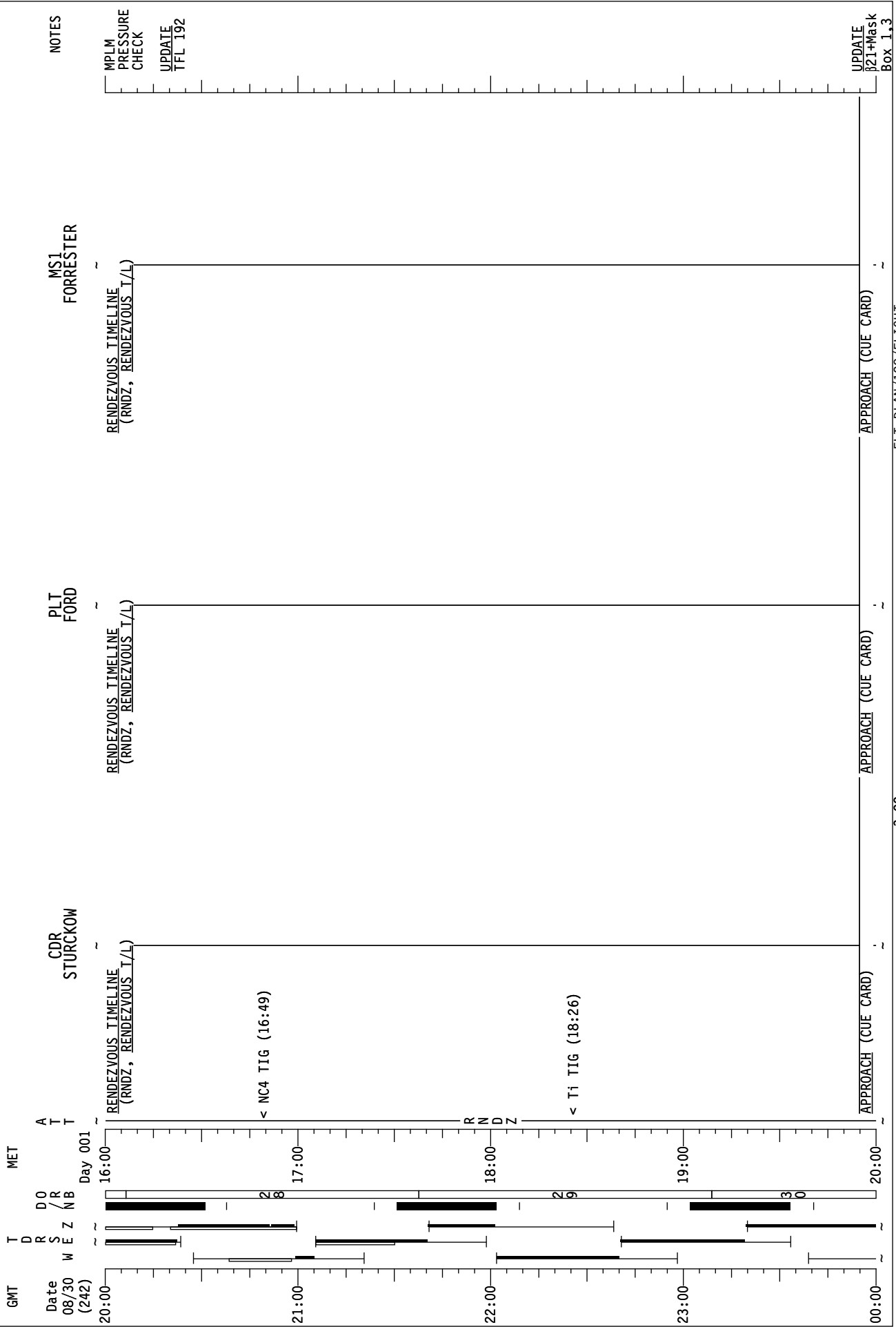
STS-128/17A FD03



REPLANNED

08/30/09 09:39:24

STS-128/17A FD03



08/30/09 09:39:24

STS-128/17A FD03

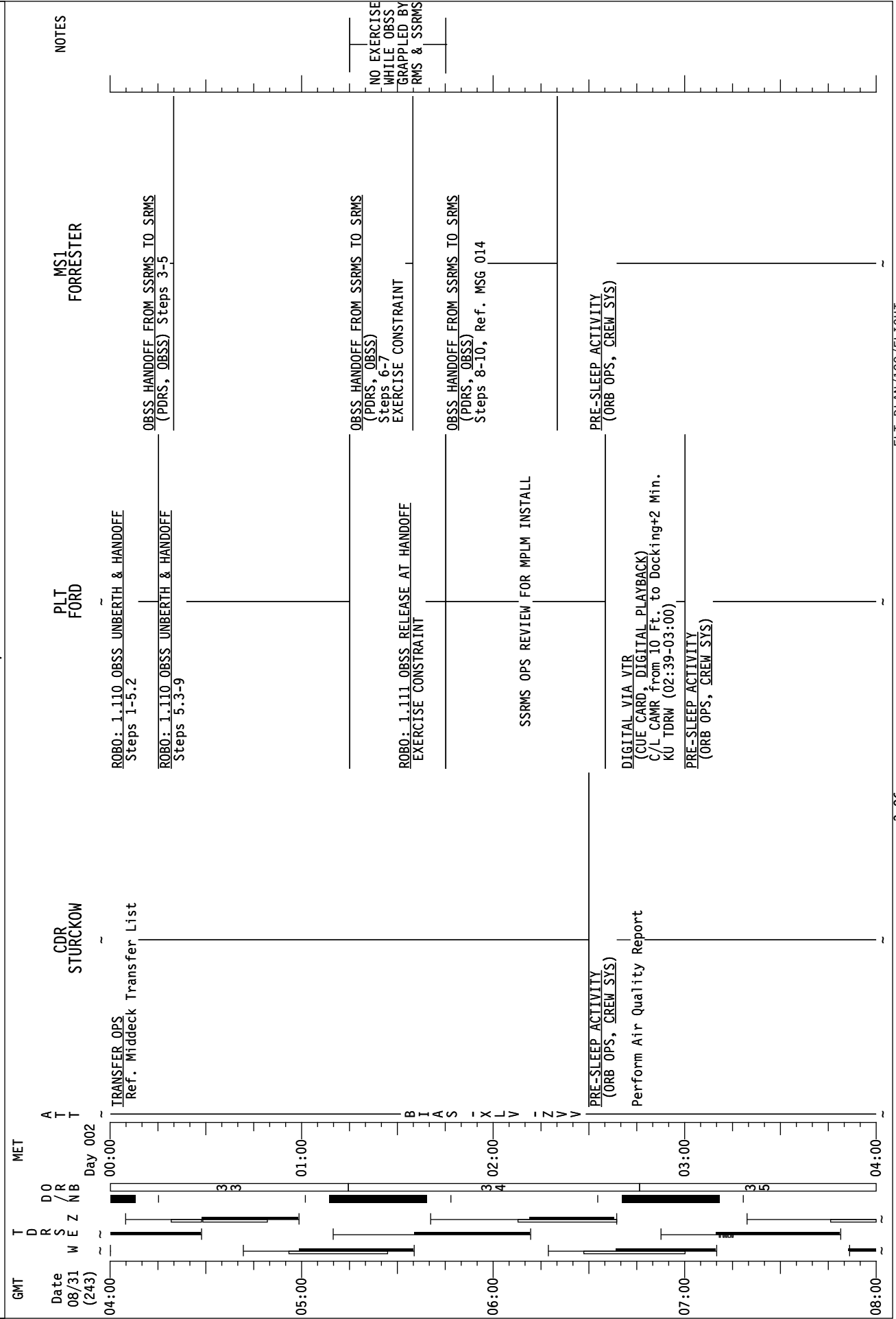
GMT	Date 08/31 (243)	T D R S W E Z	DO /R NB	MET Day 001	CDR STURCKOW	PLT FORD	MS1 FORRESTER	NOTES
00:00				20:00	APPROACH (CUE CARD)	APPROACH (CUE CARD)		
01:00				21:00	DOCKING 1/21:05	RETURN TO FLIGHT PLAN		
02:00				22:00	POST DOCKING HATCH LEAK CHECK (RDNZ, APDS)	POST DOCKING HATCH LEAK CHECK (RDNZ, APDS)		UPDATE β21+Mask Box 1,2
03:00				23:00	PRIORITY PMRDN GRP B (ORB PKT, PRIOR PMRDN) Steps 6 (Single G2) and 12 (IMU 1) 06 S TRK PMR -Z - OFF	ATRLCK PREP FOR INGRESS - ATRLCK FAN ACTIVE (RNDZ, APDS)		UPDATE TFL 184
04:00				00:00	TRANSFER OPS Ref. Middeck Transfer List	OBSS HANDOFF FROM SSRMS TO SRMS (PDKS, OBSS) Steps 1 & 2		

A] SSPTS_ODS CONNECTOR VERIE
 A15 ODS MATE X1, X2 (two) - ON
 √MCC then - OFF

B] On MCC GO:
 A15 OPCU 1,2 CONV (two) - ON
 MN BUS TIE B - ON (tb-ON)
 C - ON (tb-ON)

08/30/09 09:39:24

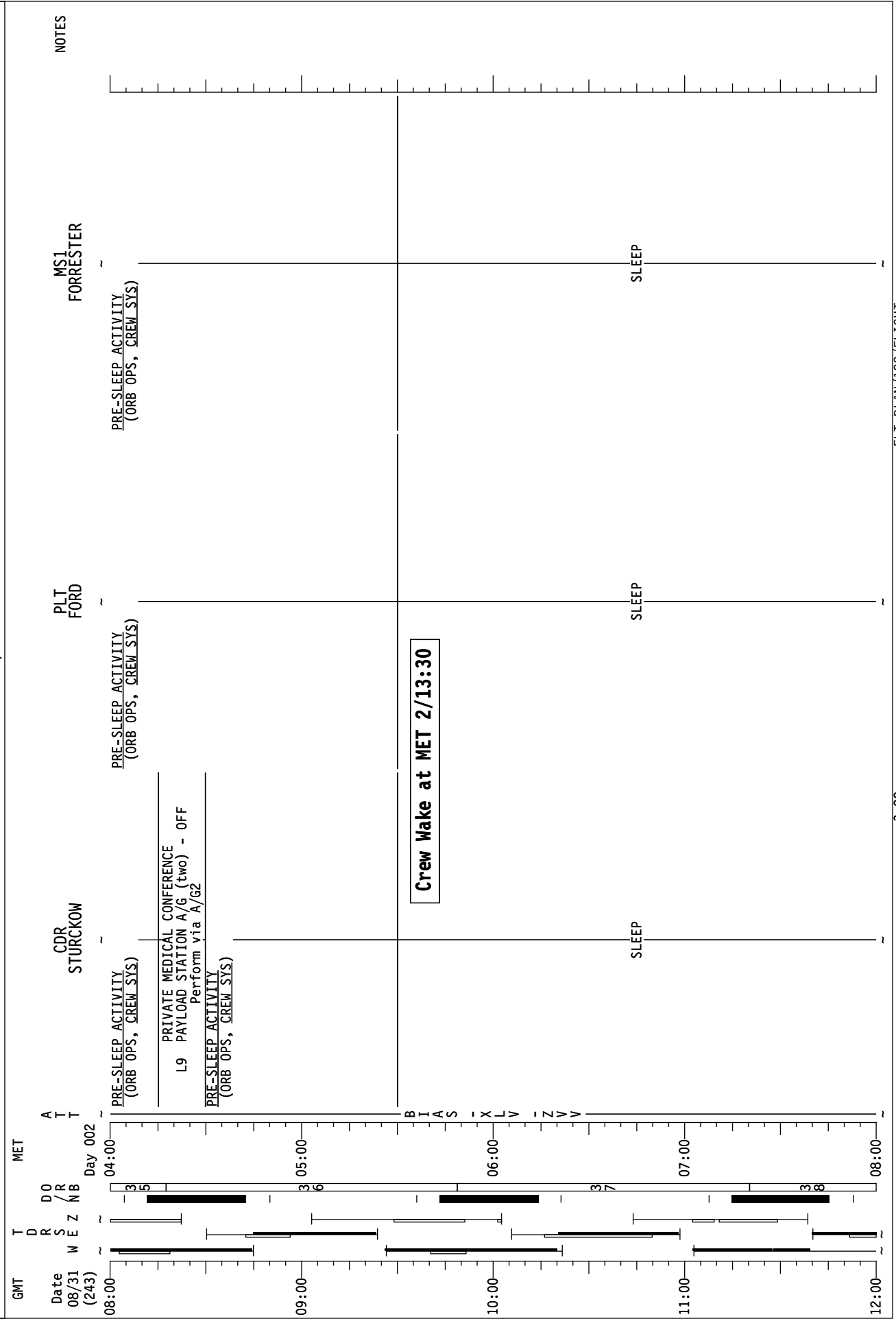
STS-128/17A FD03



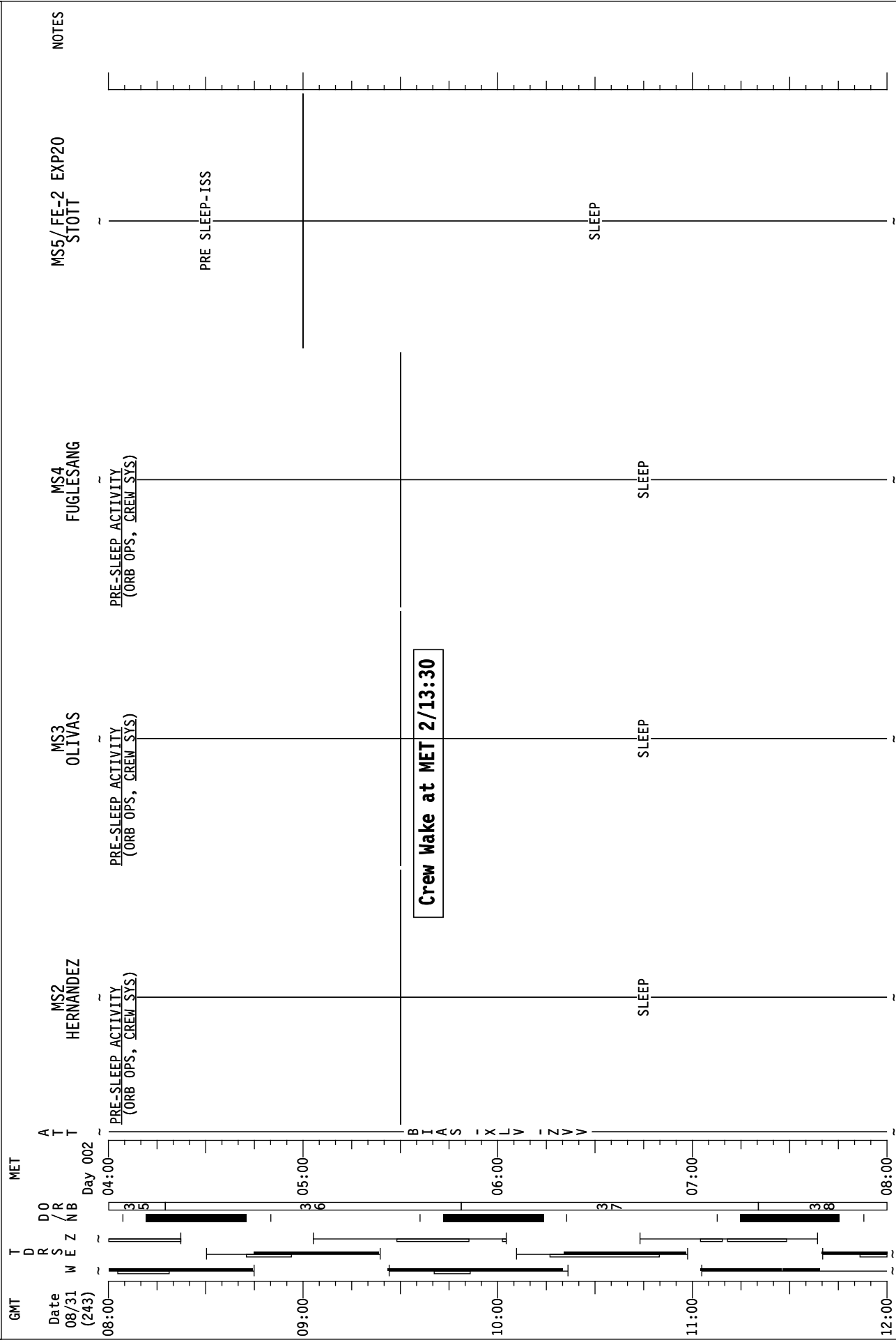
STS-128/17A FD03

GMT	Date (243)	T D R S W E Z	Day 002	MS2 HERNANDEZ	MS3 OLIVAS	MS4 FUGLESANG	MS5/FE-2 EXP20 STOTT	NOTES
04:00								
04:00				OBSS HANDOFF FROM SSRMS TO SRMS (PDRS, OBSS) Steps 3-5	P/TV06 ROBOTICS OPERATIONS (PHOTO/TV, SCENES) Setup & Ops	TRANSFER OPS Ref. Middeck Transfer List	ELK INSTALL & C/O Ref. RODF and Middeck Transfer List: Item 16	
04:00				SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS) Perform SETUP Ref. MSG 010 Item 5	MULTIMETER SWAP Ref. Middeck Xfer List Items 30 & 615		EXERCISE OVERVIEW	
04:00				PCS SETUP - SHUTTLE (JOINT OPS, COMM/DATA) Ref. Middeck Xfer List: Item 34	TRANSFER OPS Ref. Middeck Transfer List		MDS STATUS CHECK (ASSY OPS, P/L)	
04:00				OBSS HANDOFF FROM SSRMS TO SRMS (PDRS, OBSS) Steps 6-7 EXERCISE CONSTRAINT			SOKOL LEAK CHECK	NO EXERCISE WHILE OBSS GRAPPLLED BY RMS & SSRMS
05:00							T-C/O ACY-PREP	
06:00				OBSS HANDOFF FROM SSRMS TO SRMS (PDRS, OBSS) Steps 8-10, Ref. MSG 014	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
06:00				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	TRANSFER TAGUP Coordinate with transfer counterpart		PRIVATE MEDICAL CONFERENCE	
06:00					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		DAILY PLANNING CONFERENCE (DPC)	
06:00					TRANSFER BRIEF Call down status to MCC		GLACIER STATUS CHECK (ASSY OPS, P/L)	
07:00					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
07:00							PRE SLEEP-ISS	
08:00								

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STS-128/17A FD03



MSG 011 - FD03 MISSION SUMMARY

1 Good Morning Discovery!!!
2
3 Thank you for such a good Flight Day two!
4
5 Have a great rendezvous day!!!!
6

7
8 YOUR CURRENT ORBIT IS: 150 X 120 NM
9

10 NOTAMS:

11
12 EDW - EDW IN USE. EDT DAY ELS ONLY.
13 EDW - LAKEBED RWY 15/33 GREEN - ELS ONLY. RWY 18L - UNUSABLE.
14 NOR - LAKEBED RUNWAYS GREEN.
15 YJT - TACAN YJT78 OTS.
16 YYR - TACAN UYR40 OTS.
17 LAJ - TACAN LAJ45 OTS.
18 HAW - RWY 31 LDA = 9024 FT.
19 GUA - RWY 24R END LIGHTS OTS.
20 IKF - NOT USABLE. NO AGREEMENT.
21 BEN - NOT RECOMMENDED/NOT SUPPORTED.
22

23 NEXT 2 PLS OPPORTUNITIES:

24
25 EDW22 ORB 33 – 2/00:34 SKC 7 230/7P11
26 EDW22 ORB 49 – 3/00:59 SKC 7 230/7P11
27

28 OMS TANK FAIL CAPABILITY:

29
30 L OMS FAILS: NO
31 R OMS FAILS: NO
32

33 LEAKING OMS PRPLT BURN:

34
35 L OMS LEAK: ALWAYS BURN RETROGRADE
36 R OMS LEAK: ALWAYS BURN RETROGRADE
37

38 OMS QUANTITIES(%)

39
40 L OMS OX = 34.4 R OMS OX = 33.5
41 FU = 34.0 FU = 33.5
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END OF PAGE 1 OF 2, MSG 011

MSG 011 - FD03 MISSION SUMMARY

1 DELTA V AVAILABLE:

2		
3	OMS	317 FPS
4	<u>ARCS (TOTAL ABOVE QTY1)</u>	<u>22 FPS</u>
5		
6	TOTAL IN THE AFT	339 FPS
7		
8	ARCS (TOTAL ABOVE QTY2)	51 FPS
9	FRCS (ABOVE QTY 1)	31 FPS
10		
11	AFT QTY 1	83 %
12	AFT QTY 2	45 %

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

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END OF PAGE 2 OF 2, MSG 011

MSG 015 - FD03 RENDEZVOUS PACKAGE

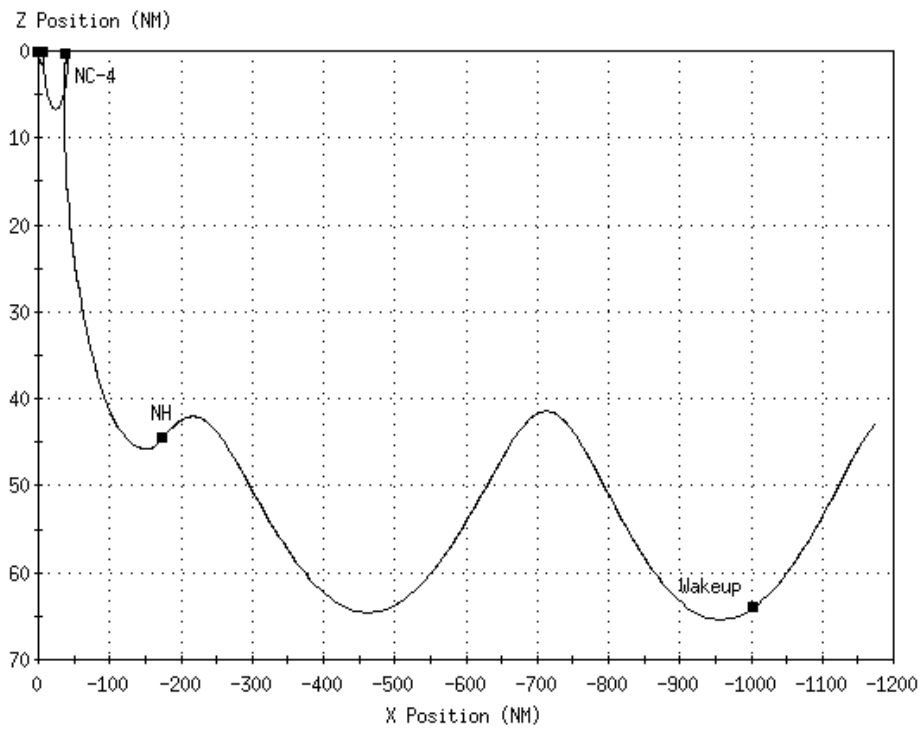
Preliminary Burn TIGs

1
2
3 MET
4 NH 001:15:59:23.540
5 NC-4 001:16:48:45.000
6 NCC 001:17:28:58.000
7 TI 001:18:26:40.000 PET = 0:0 ; SS - 36 MIN
8 MC1 001:18:46:40.000
9 MC2 001:19:16:34.000 ET = 0:0
10 MC3 001:19:33:34.000 MC2 + 17 MIN
11 MC4 001:19:43:34.000 MC2 + 27 MIN
12 DOCK 001:21:05:00.000
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END OF PAGE 1 OF 5, MSG 015

MSG 015 - FD03 RENDEZVOUS PACKAGE

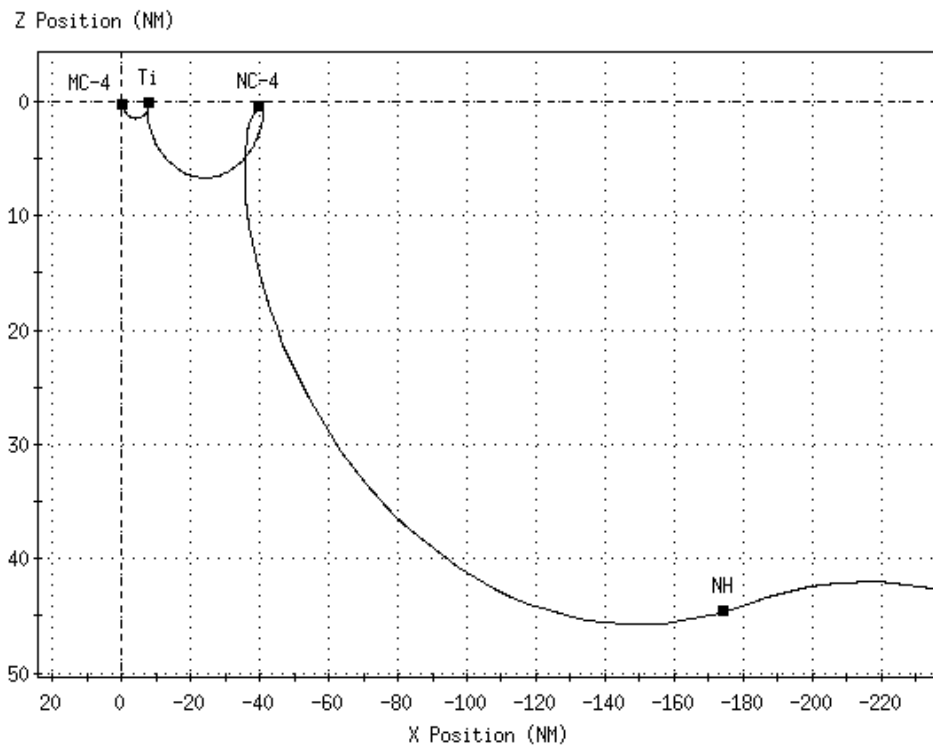
1 Long Range Profile



2

3

Short Range Profile



4

END OF PAGE 2 OF 5, MSG 015

PRELIMINARY ORBIT MANEUVER PAD FOR Ti (Rndz C/L 3-6)

ΔVTOT	0	0	8	.	8
TGO	0	0	:	1	1

VGO	X	(+)	0	0	8	.	3
VGO	Y	(+)	0	0	1	.	7
VGO	Z	(+)	0	0	2	.	3

HA	1	9	3	(+)	1	8	2
HP							

BURN ATT	R 24	0	8	4
	P 25	1	3	8
	Y 26	3	5	2

OMS BOTH	1				
L	2	X			
R	3				
RCS SEL	4				
TV ROLL	5	0	0	0	

TRIM LOAD	P 6	(+)	0	.	5									
	LY 7	(+)	5	.	0									
	RY 8	(-)	5	.	0									
WT	9	2	4	7	3	4	6							
TIG	10	0	1	/	1	8	:	2	6	:	4	0	.	0

TGT PEG 7	ΔVX 19	(+)	0	0	8	.	7
	ΔVY 20	(+)	0	0	0	.	1
	ΔVZ 21	(+)	0	0	0	.	2

TIG SLIP:	If Ti not started by nominal TIG + ___ min	
	go to Ti DELAY, 5-27	
	DO NOT UPDATE TIG	UPDATE TIG AFTER ___ MIN.

TGT PEG 7	ΔVX 19	(-)											
	ΔVY 20	(-)											
	ΔVZ 21	(-)											
NEW Ti (BASETIME)	0	1	/	1	9	:	5	8	:	1	2	.	0

OMS GMBL CK:	PRE	POST-BURN
L PRI		
L SEC		
R PRI		
R SEC		
NONE		X

RCS I/CNCT:	L OMS → RCS	2 OMS → 1 OMS
	R OMS → RCS	1 OMS → RCS
	NONE	NONE

OMS HE REG TEST:	L	R
GPC OP CL	X	A
A		B
B	X	

-X RCS BURNS:	BURN ATT	LVLH ATT
P 15	N / A	R N / A
Y 16	N / A	P N / A
OM 17	N / A	Y N / A

ORBIT BURN MONITOR:	GPC FILL-INS 1 (3)
	X CRIT BURN
	NON-CRIT BURN

NOTES

DOWN MODE OPTIONS:

2 OMS → 1 OMS	
1 OMS → RCS	X
NONE	

MSG 012 (20-1033) - FD03 TRANSFER MESSAGE

Page 1 of 38

1 Good morning Danny, Christer, CJ & Jose

2
3 Welcome to your first day of transfer! You will start by swapping out IELKs, transferring the
4 SODF, and transferring items in preparation for tomorrow's MDS Transfer. Enjoy your first
5 day and just let us know if you have any questions!

6
7
8 The Transfer List Excel file, FD03_Transfer_List_STS128.xls, locations are:

- 9 • Shuttle: **C:\OCA-up\transfer** (KFX machine)
- 10 • Station: **K:\OCA-up\transfer**
- 11 • **Electronic Transfer List:** If you choose to use the electronic transfer list, please
12 remember that upon launching the file you'll receive a Security Warning prompt
13 asking you to enable or disable macros. Please select 'Enable Macros' in order to
14 use the search and sort features built into the list.

15 16 17 Transfer Notes

- 18 • **IELKs:** Nicole will stow Tim's IELK with the 17A Pre-pack items at LAB1S4. Then on
19 FD05 it will be temp stowed in the endcone with the pre-pack items until it is stowed in
20 the MPLM for return.
- 21 • **Waist Tethers and D-Ring Extenders:** Yesterday the new waist tethers and D-Ring
22 Extenders were pre-gathered per EVA procedure. Today we would like for you to
23 retrieve the damaged ones from the ISS A/L and stow them on the Middeck for return.
24 EVA would like them out of the A/L before you start configuring for the first EVA to avoid
25 confusion.
- 26 • **PCS Setup:** For the PCS setup you will use the spare shuttle power supply. Then on
27 hatch closure day the power supply will transfer with the PCS to ISS.
- 28 • **Food Reminder:** Transfer any fresh food that needs to go to ISS.

29 30 31 32 FD03 Choreography

- 33 • **Item 4.2:** Transfer IMAK
- 34 • **Items 16 & 802:** Transfer IELKs per IELK transfer activities
- 35 • **Items 32 & 33:** Transfer SODF per SODF XFER activity
- 36 • **Items 30 & 615:** Transfer Multimeters per Multimeter swap activity
- 37 • **Item 34:** Deploy PCS on MDDK per PCS SETUP activity
- 38 • **Items 14 & 29:** Transfer MDS Support CTBs
- 39 • **Items 13 & 20.1:** Transfer CTB and Radial Port Closeout for tomorrow's vestibule
40 outfitting activities
- 41 • **Items 901 & 902:** Transfer Waist Tethers and D-Ring Extenders out of the ISS A/L

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End of Page 1 of 38, MSG 012 (20-1033)

MSG 012 (20-1033) - FD03 TRANSFER MESSAGE

Page 2 of 38

1 **Please incorporate uplink pages as follows (we've listed the updates in the**
2 **order they printed out for you):**

3
4 In the Middeck Transfer List **RESUPPLY** tab

5 Replace the following pages:

6 Resupply 2 thru 5

7 Add the following page:

8 Resupply 6

9

10 In the Middeck Transfer List **RETURN** tab

11 Add the following pages:

12 Return 1 thru 5

13

14 In the MPLM Resupply Transfer List **MPLM SETUP** tab

15 Replace the following page:

16 Resupply 7

17

18 In the MPLM Resupply Transfer List **MPLM GLAs** tab

19 Replace the following page:

20 Resupply 8

21

22 In the MPLM Resupply Transfer List **A2 RSP** tab

23 Replace the following page:

24 Resupply 10

25

26 In the MPLM Resupply Transfer List **A3 RSP** tab

27 Replace the following page:

28 Resupply 12

29

30 In the MPLM Resupply Transfer List **A4 RSP** tab

31 Replace the following page:

32 Resupply 14

33

34 In the MPLM Resupply Transfer List **F1 RSP** tab

35 Replace the following page:

36 Resupply 17

37

38 In the MPLM Resupply Transfer List **F2 RSP** tab

39 Replace the following page:

40 Resupply 19

41

42 In the MPLM Resupply Transfer List **P4 ISP** tab

43 Replace the following page:

44 Resupply 27

45

46 In the MPLM Return Transfer List **RETURN** tab

47 Add the following pages:

48 Return 8 thru 24

49

50

51

End of Page 2 of 38, MSG 012 (20-1033)

MSG 012 (20-1033) - FD03 TRANSFER MESSAGE

Page 3 of 38

1 **Changes to the Transfer List are detailed below:**

2
3 **MIDDECK RESUPPLY**

4 Item 7 – updated notes

5 Item 15 – updated final location

6 Item 29 – updated final location

7 Item 30 – updated final location

8 Item 34.1 – new item

9 Item 300 – new item

10
11 **MIDDECK RETURN**

12 All items new

13
14 **MPLM RESUPPLY**

15 Item 103 – updated name and notes

16 Item 108.1 – updated notes

17 Item 117.1 – updated notes

18 Item 122 – updated final location and notes

19 Item 123 – updated final location and notes

20 Item 135 – updated final location

21 Item 147 – updated item name

22 Item 151.2 – updated notes

23 Item 151.3 – updated notes

24 Item 177.1 – updated final location and notes

25
26 **MPLM RETURN**

27 All items new

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30
31 **FD04 Choreography**

- 32 • **Item 31:** Transfer MDS Locker per MDS XFER activity
- 33 • **Items 1, 2, 3, & 28:** Transfer EVA Hardware per EVA procedure
- 34 • **Items 100 & 101:** Deploy PBA and PFE per MPLM VEST INGRS CNFG activity
- 35 • **Item 610:** Transfer GSC after MPLM ingress activity
- 36 • **Item 103:** Scavenge LHA per MPLM LHA SCAVENGE activity
- 37 • Complete the remaining unconstrained MDDK resupply items
- 38 • Begin transferring MDDK return items

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42
43 Have a great day and let us know if you have any questions!

44
45 - The STS-128 Transfer Team

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End of Page 3 of 38, MSG 012 (20-1033)

MSG 013 - FD03 CREW CHOICE DOWNLINK

1 The following are your Crew Choice Downlink opportunities based on Ku availability:

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<u>TDRS</u>	<u>AOS</u>	<u>LOS</u>	<u>Delta Min</u>
West	002/02:39	002/03:00	21
West	002/04:03	002/04:18	15
East	002/04:46	004/04:56	10

END OF PAGE 1 OF 1, MSG 013

MSG 014 - OBSS HANDOFF PROCEDURE UPDATES

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OBSS MANEUVER TO ATA VENT CLEAR

In step 8 of OBSS HANDOFF FROM SSRMS TO SRMS (PDRS, OBSS NOMINAL), delete:
 PARAM – PORT TEMP
 JOINT – CRIT TEMP

Replace step 9 of OBSS HANDOFF FROM SSRMS TO SRMS (PDRS, OBSS NOMINAL) with the following steps 9 and 10:

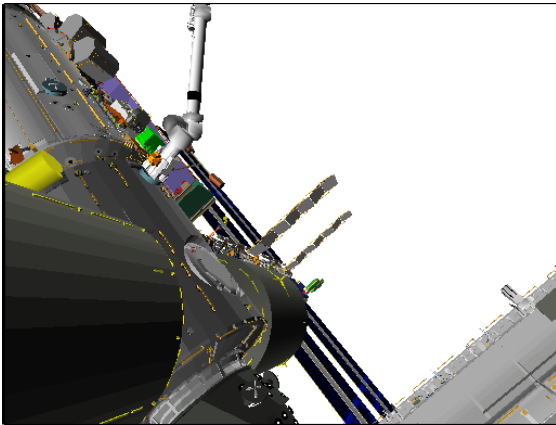
RHC 9. MNVR TO ATA VENT CLEAR POSN
 RATE – as reqd (VERN within 10 ft)
 BRAKES – OFF (tb-OFF)
 MODE – SINGLE, ENTER

Mnvr to ATA VENT CLEAR posn:

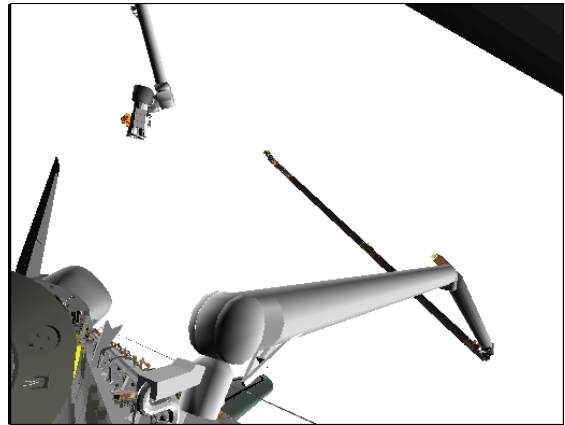
	SY	SP	EP	WP	WY	WR	
MPLM Viewing	+62.5	+25.0	-23.0	0.0	-13.2	-21.9	
1: WR -						-34.6	
ATA Clear	+62.5	+25.0	-23.0	0.0	-13.2	-34.6	
	X	Y	Z	PITCH	YAW	ROLL	PL ID
	-968	-643	-387	50	341	280	1

BRAKES – ON (tb-ON)

PARAM – PORT TEMP
 JOINT – CRIT TEMP



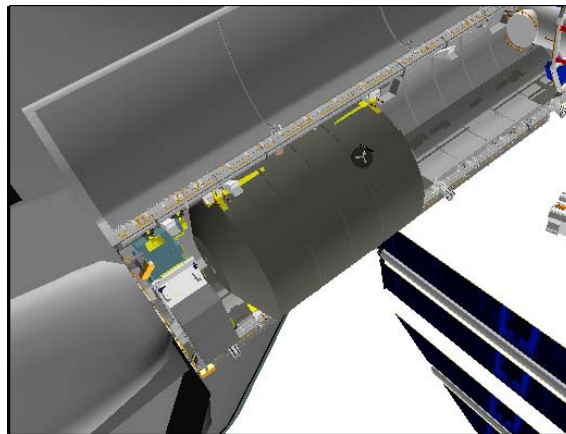
ELBOW (-165,20)



CCTV A (30,15)

MSG 014 - OBSS HANDOFF PROCEDURE UPDATES

- 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - 8
 - 9
 - 10
 - 11
 - 12
 - 13
 - 14
 - 15
 - 16
10. RECONFIG PTU
Green Jumper – LDR/ITVC
DTV ← PL2
- CAMR CMD PAN/TILT – HI RATE
PAN – L (to hard stop)
TILT – UP (to hard stop)
PAN/TILT – RESET, HI RATE (LO within 10°)
PAN: +130 (right)
TILT: -60 (dn)
- MUX 1 L ← MIDDECK
LDR/ITVC MODE 2 pb – push (ITVC video)
VIDEO OUT – as desired (not DTV)
√VIDEO IN – not PL2



OBSS ITVC (130,-60)

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MSG 016 - STS-128/17A EMERGENCY AGREEMENTS

17A / STS-128 Joint Emergency Agreement

General

- The Joint Emergency Egress (JEE) cue cards are posted in Node 2 Fwd and the Airlock. Kevin will retrieve the JEE Cue Card from the FDF Locker.
- All initial calls will be made on the big loop. Pat will take the BPSMU from the Shuttle Airlock to make calls on ICOM to CJ when hatches are closed.
- There will not be specified gas masks for the shuttle crew to use. Additionally, US PBAs will remain in their typical locations on station. No “pre-staging” will occur.
- Gennady is ok with Shuttle crew annunciating emergencies. CJ recommended STS crew not use any ISS emergency equipment, nor announce an ISS emergency, unless an obvious event is occurring.

Specific Responsibilities

- Danny and Christer will be in charge of gathering EMUs.
 - If not on ISS at time of Emergency, ingress into ISS for suit retrieval will be situation dependent.
- Jose will be in charge of gathering the EMU bag.
- Pat will be in charge of disconnecting O2/N2 hoses and closing hatches. Danny will be in charge of assisting Pat.

EVA

- If an emergency occurs while a mixed ISS/STS EV crew is outside, any alteration to the Joint Emergency Egress response will be a case dependent change based on the type, severity, and location of the emergency.

Depress

- If Shuttle crew feels a pressure change in their ears, Gennady is ok with Shuttle crew annunciating a Rapid Depress. CJ recommended STS crew not use any ISS emergency equipment, nor announce an ISS emergency, unless an obvious event is occurring.

Toxic Atmosphere

- The Shuttle crew may announce an ISS Tox Atmosphere emergency if they smell ammonia.
- Shuttle crew may announce an ISS Tox Atmosphere emergency if they see a leaking payload or other toxic spill on ISS after they first inform an ISS crewmember.
- Any non-ammonia toxic leak scenarios in which the Shuttle crew is not expected to perform Joint Emergency Egress but simply would need to stay out of the way and allow ISS crew to clean up the spill will be handled as a real-time call.

Fire

- Shuttle crew will use a PFE only if it is necessary in order to get to the Orbiter.
- Shuttle crew should defer to ISS crew if at all possible before flipping a Rack Power Switch to a rack with visible smoke coming out.
- For Shuttle fire, a fire alarm should be announced on station in order to stop ventilation between the two vehicles.
- The Shuttle crew may take one of the Extension Hose Tee Kits from station if they need it to perform Joint Emergency Egress actions in PMA2 while on masks.

END OF PAGE 1 OF 1, MSG 016