



STS-128/17A

FD 06 Execute Package

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038	---	FD06 PAO Event Summary: CNN/Televisa/KCRA <i>(JEDI Only)</i>
039	---	FD06 PAO Downlink Message Script <i>(JEDI Only)</i>
040	---	17A Ascent Sample Transfer from Glacier to MELFI <i>(JEDI Only)</i>
044	---	17A Food Transfer and Consolidate Procedure <i>(JEDI Only)</i>

Approved by FAO:
Terry Clancy

Last Updated: Sep 2 2009 2:21 PM GMT
JEDI (Joint Execute package Development and Integration), v3.0

(Fake News) Press Release

Colbert Elated, Stewart Miffed



Satisfied Colbert

NEW YORK (MATS Central) - Comedic news commentator Jon Stewart is apparently miffed about ISS exercise hardware being named after fellow Comedy Central commentator Steven Colbert. Colbert lobbied to get the Node 3 element of the International Space Station named COLBERT in NASA's online naming contest for the Node. Although Colbert convinced his viewers to vote for "Colbert" as the new name, helping it win by a large margin, NASA elected to name the hardware "Tranquility". As a concession, NASA decided to name the new exercise treadmill COLBERT, which is an acronym for Combined Operational Load Bearing External Resistance Treadmill.

While the decision pleased Colbert, an irate Jon Stewart vehemently complained to the space agency that he deserved the same treatment. In response, NASA offered to name the ISS Urine Processor after Stewart, Space Toilet Environmental Waste Accumulator/Recycling Thingy. Upon hearing this, Stewart declined the offer.



Disappointed Stewart

This page intentionally cartooned



Diagram G-1: EVA WORKAROUNDS CRIBSHEET

MSG 034 - FD06 FLIGHT PLAN REVISION

1 MSG INDEX

2

3 <u>MSG NO.</u>	<u>TITLE</u>
4 034	FD06 Flight Plan Revision
5 035	FD06 Mission Summary
6 036	FD06 Transfer Message
7 037	FD06 PAO Event Summary: Twitter/YouTube
8 038	FD06 PAO Event Summary: CNN/Televisa/KCRA
9 039	FD06 PAO Event Downlink Message Script
10 040	17A Ascent Sample Transfer From Glacier to MELFI
11 041	17A Ascent Sample Transfer From Glacier to MELFI Overview
12 042	OCA 48 Meg Troubleshooting
13 043	FD06 Crew Choice Downlink
14 044	17A Food Transfer and Consolidate Procedure
15 045	FD06 EVA Deltas
16 046	EVA 3 Briefing Package

17

- 18
- 19 1. **EVA 2 Prep** - Excellent job on EVA1 and we're looking forward to EVAs 2 & 3.

20
21 Message 045 (20-1059) is your FD06 EVA Deltas Message. In addition, you'll see that
22 we've added some time to review a briefing package for EVA 3. All the details are in
23 message 046 (20-1060).

- 24
- 25 2. **48 Meg OCA** - Later today you will be troubleshooting the 48Meg OCA downlink.
26 Message 128-042 details the procedure. The first part of the procedure has you
27 performing loopback tests and potentially swapping the OCA I/F cable.

28
29 If that is successful, then MCC will give you a GO to Reconfigure OCA Downlink Rate.

- 30
- 31 3. **Airlock Temps** - Danny- How was the temperature in the airlock during campout and
32 EVA prep? Please let ECLSS know if you'd like us to adjust it for your next EVAs. For
33 your reference, it was set at 22 °C (71.5 °F).

- 34
- 35 4. Replace pages 3-56 through 3-65.
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END OF PAGE 1 OF 13, MSG 034

REPLANNED

09/02/09 08:40:23

GMT 09/02/09 (245)
MET Day_004

03 04
23 00
05/00

Activity	16	17	18	19	20	21	22	23	01	02	03	04
FD06												
CDR STURCKOW	SLEEP	POST SLEEP	POST SLEEP	MPLM XFER	MPLM XFER	MEAL	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	EXERCISE	EXERCISE
PLT FORD	SLEEP	POST SLEEP	POST SLEEP	MPLM XFER	MPLM XFER	MEAL	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER
MS1 FORRESTER	SLEEP	POST SLEEP	POST SLEEP	EXERCISE	EXERCISE	MEAL	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER
MS2 HERNANDEZ	SLEEP	POST SLEEP	POST SLEEP	EXERCISE	EXERCISE	MEAL	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER
MS3 OLIVAS	SLEEP	POST SLEEP	POST SLEEP	EXERCISE	EXERCISE	MEAL	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER
MS4 FUGLESANG	SLEEP	POST SLEEP	POST SLEEP	EXERCISE	EXERCISE	MEAL	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER	MPLM XFER
DAY/NIGHT ORBIT	72	73	74	75	76	77	78	79	80			
TDRS												
ISS TDRS AVAIL												
ORB ATT												
NOTES												

#STATUS CHECK
 #BIAS -XLV -ZVV
 #EVA 3 BR
 #EVA 3 BR
 #EVA 3 BR
 FLT PLAN/128/FLIGHT
 2-18

REPLANNED

09/02/09 08:40:23

GMT 09/03/09 (246) 04 05 06 07 08 09 10 11 12 13 14 15 16
 MET Day_005 005/00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

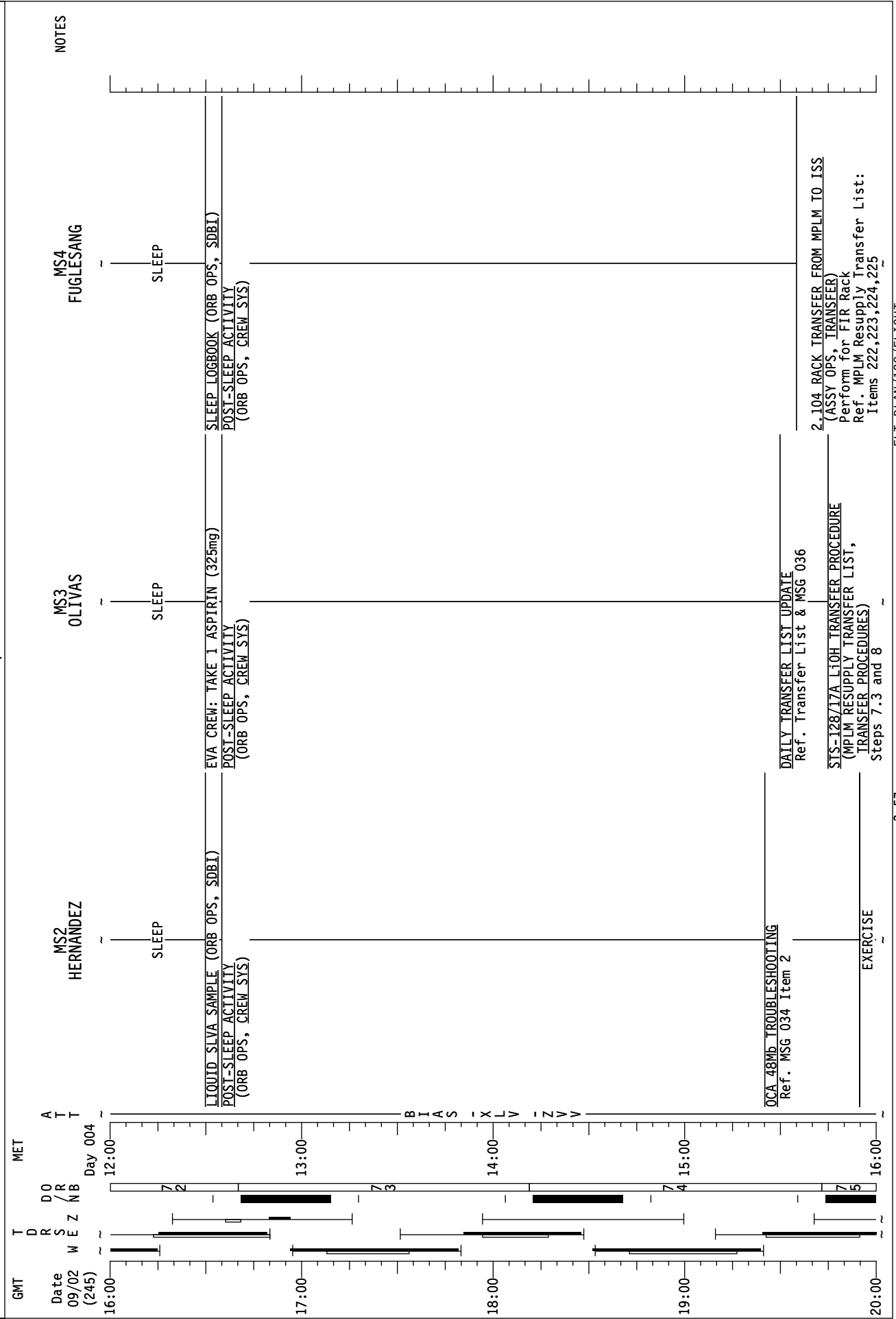
FD06	EVA 3 BRIEF	EVA PROC RVW	X F E R T A G	PRE SLEEP	PRE SLEEP	SLEEP				
			PRE SLEEP	PRE SLEEP						
PLT FORD	MPLM XFER	EVA PROC RVW		PRE SLEEP	PRE SLEEP	SLEEP				
MS1 FORRESTER	EVA 3 BRIEF	EVA PROC RVW	G L A C R #	PRE SLEEP	PRE SLEEP	SLEEP				
MS2 HERNANDEZ	MPLM XFER	EVA PROC RVW		PRE SLEEP	MASK PRE BREATHE	SLEEP				
MS3 OLIVAS	EVA 3 BRIEF	EVA PROC RVW		PRE SLEEP	MASK PREBREATHE	SLEEP				
MS4 FUGLESANG	EVA 3 BRIEF	EVA PROC RVW		PRE SLEEP	MASK PREBREATHE	SLEEP				
DAY/NIGHT ORBIT	80	81	82	83	84	85	86	87	88	
TDRS W E Z										
ISS TDRS ORB ATT										
NOTES	#STATUS CHECK									

ISS A/L Campout at 10.2 psi

10.2 IDPRS

BIAS -XLV -ZVV

STS-128/17A FD06



09/02/09 08:50:58

STS-128/17A FD06

GMT	Date 09/02 (245)	T D R S W E Z NB	MET	Day 004	CDR STURCKOW	PLT FORD	MS1 FORRESTER	NOTES
16:00					TRANSFER OPS 1.261 RSP/RSR ROTATE DOWN (MPLM RESUPPLY TRANSFER LIST, TRANSFER PROCEDURES) Ref. MPLM Resupply Transfer List: Items 102 and 244			
17:00							EXERCISE	
18:00					TRANSFER OPS 1.261 RSP/RSR ROTATE DOWN (MPLM RESUPPLY TRANSFER LIST, TRANSFER PROCEDURES) Ref. MPLM Resupply Transfer List: Items 102 and 244			
19:00							EXERCISE	
20:00							MEAL	
21:00								
22:00								
23:00								
00:00								

09/02/09 08:50:58

STS-128/17A FD06

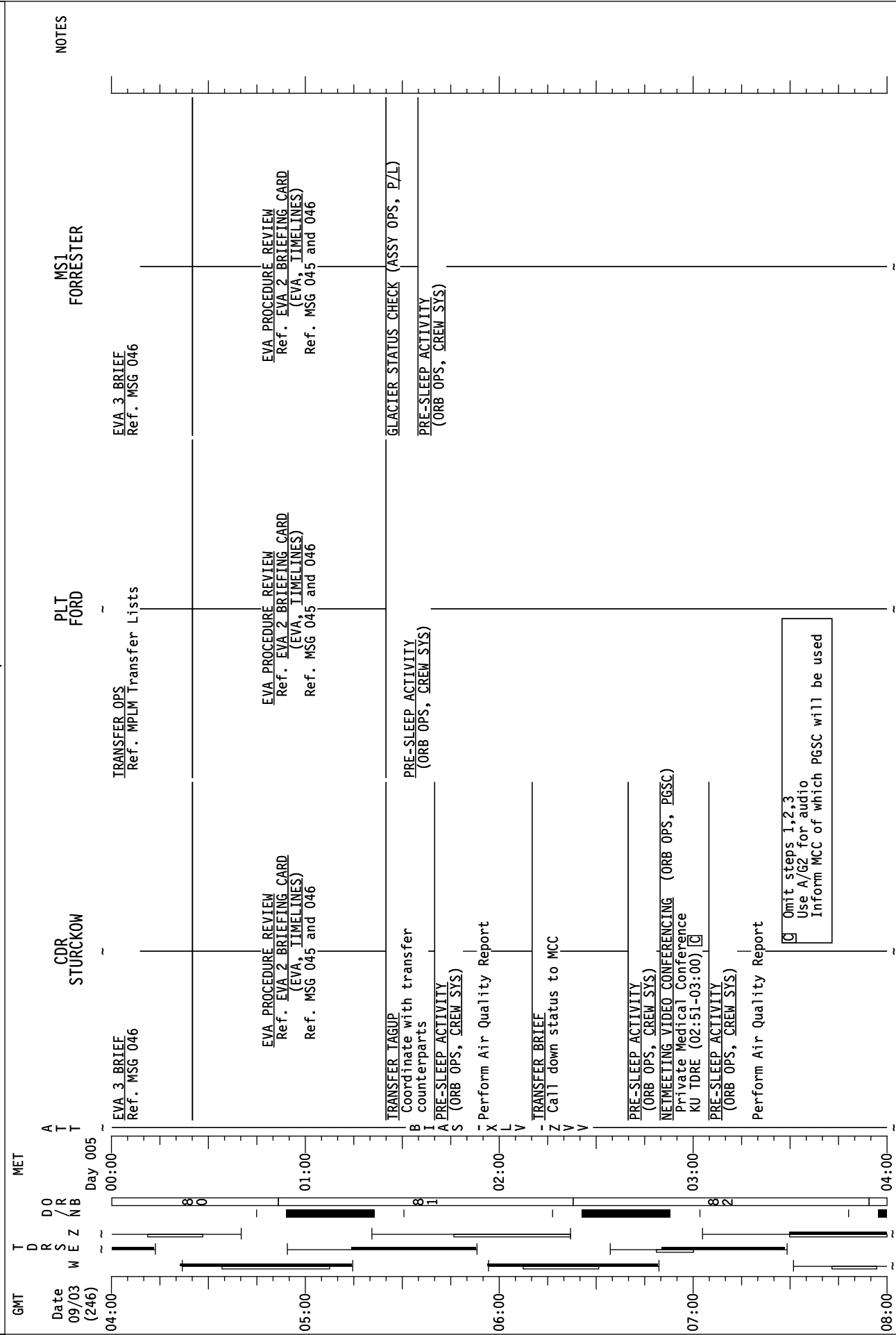
GMT	Date 09/02 (245)	T D R S W E Z	Day 004	MET	MS2 HERNANDEZ	MS3 OLIVAS	MS4 FUGLESANG	NOTES
20:00								
21:00					EXERCISE	STS-128/17A LiOH TRANSFER PROCEDURE (MPLM RESUPPLY TRANSFER LIST, TRANSFER PROCEDURES) Steps 7.3 and 8	2_104 RACK TRANSFER FROM MPLM TO ISS (ASSY OPS, TRANSFER) Perform for FIR Rack Ref. MPLM Resupply Transfer List: Items 222,223,224,225	
22:00					TRANSFER OPS Ref. MPLM Transfer Lists		2_104 RACK TRANSFER FROM MPLM TO ISS (ASSY OPS, TRANSFER) Perform for MSRR Rack Ref. MPLM Resupply Transfer List: Item 169,170,171	
23:00					EXERCISE		2_106 GENERIC RACK TRANSFER FROM MPLM TO ISS (ASSY OPS, TRANSFER) Perform for MELFI-2 Rack Ref. MPLM Resupply Transfer List: Items 104,105,106,107	
00:00								

STS-128/17A FD06

GMT	Date 09/03 (246)	T D R S W E Z	MET	Day 004	MS2 HERNANDEZ	MS3 OLIVAS	MS4 FUGLESANG	NOTES
00:00				20:00	TRANSFER OPS Ref. MPLM Transfer Lists	17A EVA 2 TOOL CONFIG (EVA, TIMELINES) Ref. STS-128 Consumables Tracking (Cue Card) Ref. MSG 045	17A EVA 2 TOOL CONFIG (EVA, TIMELINES) Ref. STS-128 Consumables Tracking (Cue Card) Ref. MSG 045	
01:00				21:00			MEAL	
02:00				22:00	PUBLIC AFFAIRS EVENT ISS KU AVAIL (21:41-22:20) Ref. MSG 037 and 039	PUBLIC AFFAIRS EVENT ISS KU AVAIL (21:41-22:20) Ref. MSG 037 and 039		
03:00				23:00	TRANSFER OPS Ref. MPLM Transfer Lists	EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP Steps 1-3 already complete. Step 27, Use Vacuum Manometer #13.	EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP Steps 1-3 already complete. Step 27, Use Vacuum Manometer #13.	
04:00				00:00	TRANSFER OPS Ref. Middeck Resupply Transfer List: Item 11	EVA 3 BRIEF Ref. MSG 046	EVA 3 BRIEF Ref. MSG 046	EXERCISE

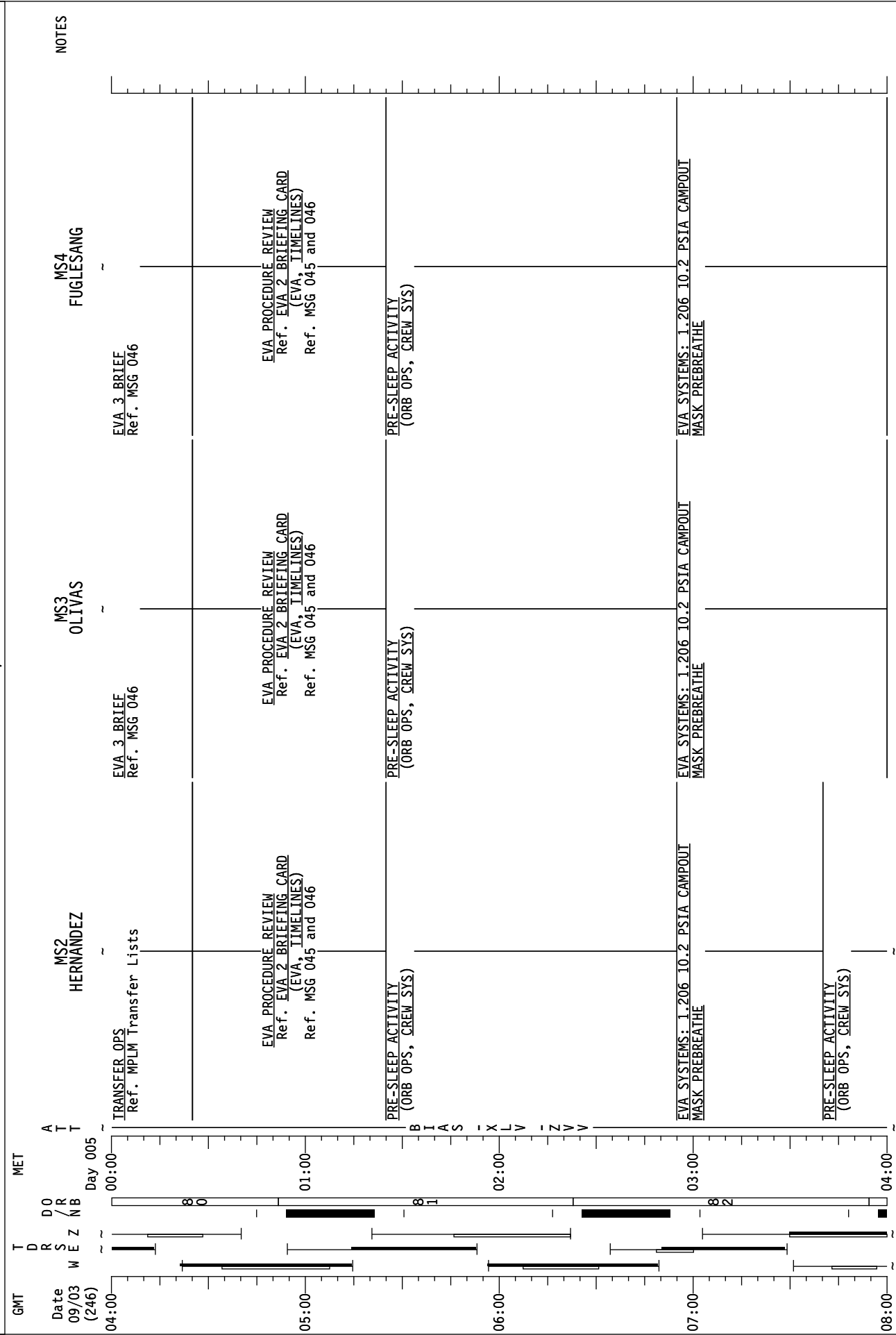
09/02/09 08:50:58

STS-128/17A FD06

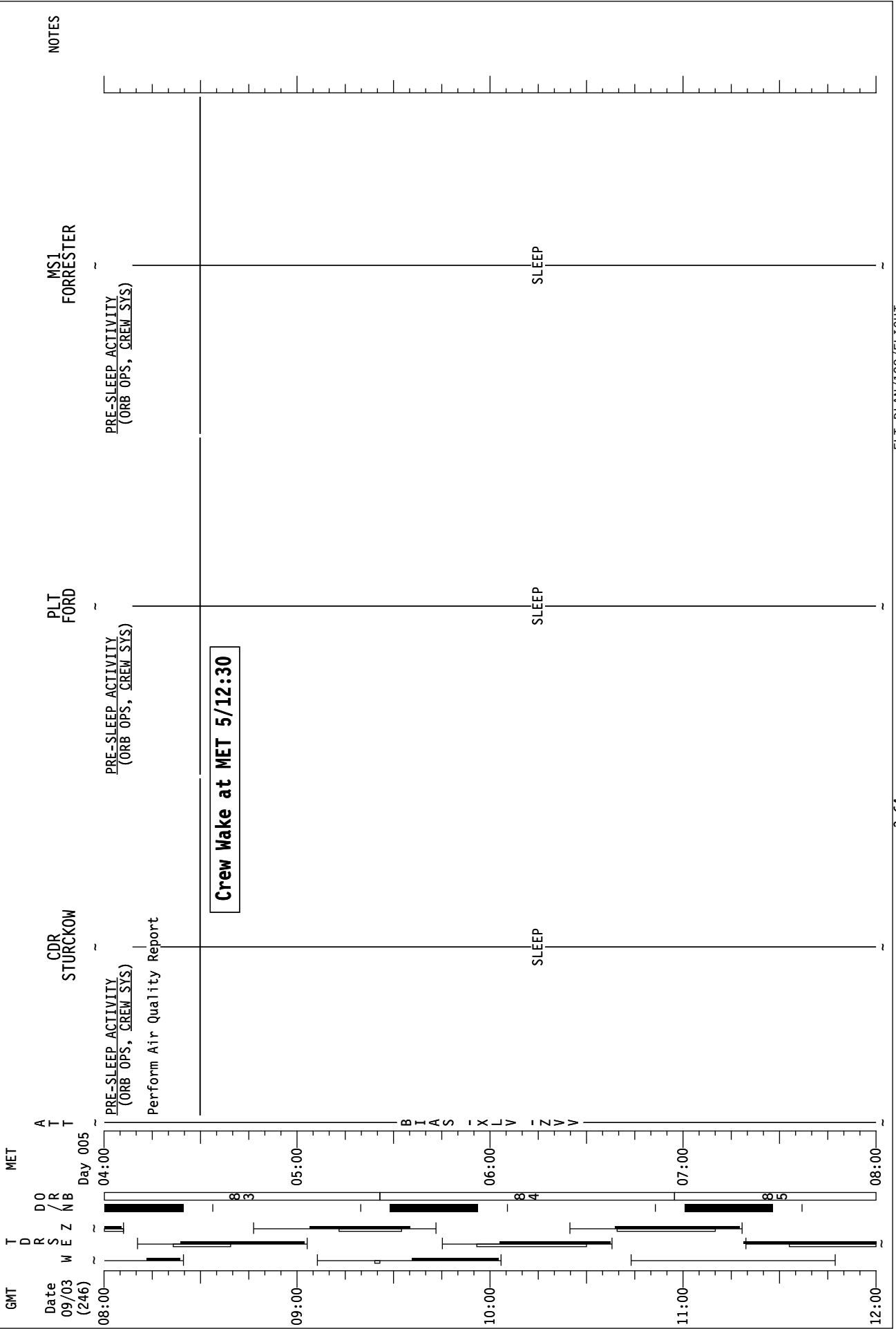


09/02/09 08:50:58

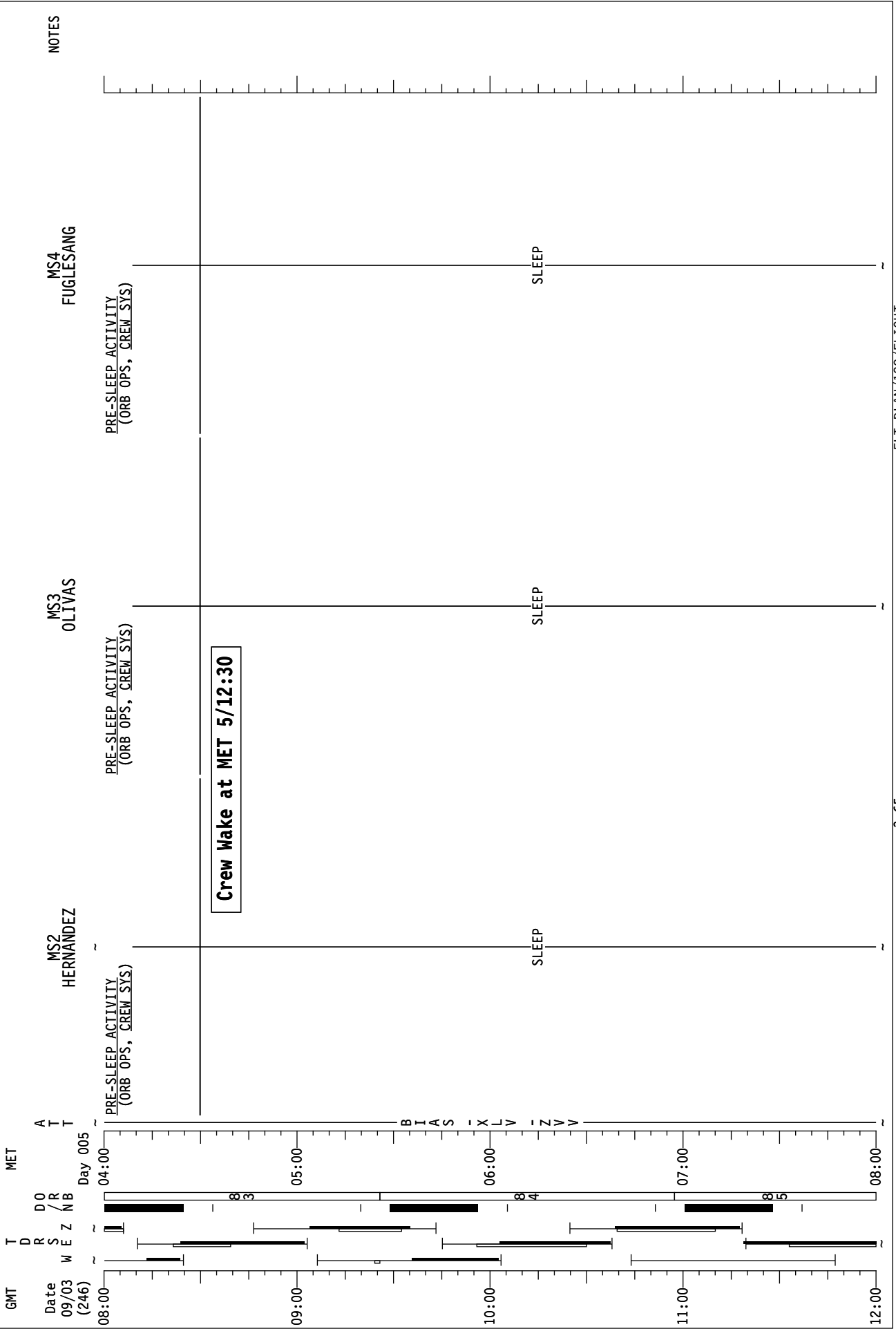
STS-128/17A FD06



STS-128/17A FD06



STS-128/17A FD06



MSG 035A - FD06 MISSION SUMMARY

1 Good Morning Discovery!!!!

2
3 EVA 1 was outstanding! It was a privilege to watch the team execute it! Thank you!

4
5 TriDAR reps have received all of the data collected during FD3 DTO docking operations and
6 are busy analyzing it, but they are confident that the TriDAR has already met all
7 of its primary mission objectives! Thank you for the great support, and we look forward to
8 the next phase during undock!

9
10 The MISSE 6 team wants to thank everyone on-orbit and on the ground who helped get our
11 experiments back. It was great to see all your excellent work. Twenty plus experiment
12 teams are standing by to begin analyzing the science your great efforts are bringing home.
13 Thanks again!

14
15 Have a great transfer day!!!!

16
17
18
19 YOUR CURRENT ORBIT IS: 193 X 181 NM

20
21 **NOTAMS: ONE CHANGE (DELETED ONE GUA NOTAM)**

22
23 EDW - EDW IN USE. EDT DAY ELS ONLY.
24 EDW - LAKEBED RWY 15/33 GREEN - ELS ONLY. RWY 18L - UNUSABLE.
25 NOR - LAKEBED RUNWAYS GREEN.
26 FMH - RWY 32 SEQUENCED FLASHING LIGHTS OTS.
27 YJT - TACAN YJT78 OTS.
28 YYR - TACAN UYR40 OTS.
29 LAJ - TACAN LAJ45 OTS.
30 HAW - RWY 31 LDA = 9024 FT.
31 GUA - RWY 24R END LIGHTS OTS.
32 IKF - NOT USABLE. NO AGREEMENT.
33 BEN - NOT RECOMMENDED/NOT SUPPORTED

34
35 **NEXT 2 PLS OPPORTUNITIES:**

36
37 NOR17 ORB 79 – 4/22:39 SCT120 SCT 250 7 150/6P08
38 EDW22 ORB 95 – 5/23:02 SKC 7 230/5P07

39
40 **OMS TANK FAIL CAPABILITY:**

41
42 L OMS FAILS: NO
43 R OMS FAILS: NO

44
45 **LEAKING OMS PRPLT BURN:**

46
47 L OMS LEAK: ALWAYS BURN RETROGRADE
48 R OMS LEAK: ALWAYS BURN RETROGRADE

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END OF PAGE 1 OF 2, MSG 035A

MSG 035A - FD06 MISSION SUMMARY

1 OMS QUANTITIES(%)

2

3 L OMS OX = 34.4 R OMS OX = 33.4

4 FU = 33.9 FU = 33.4

5

6 DELTA V AVAILABLE:

7

8 OMS 359 FPS

9 ARCS (TOTAL ABOVE QTY1) 23 FPS

10

11 TOTAL IN THE AFT 382 FPS

12

13 ARCS (TOTAL ABOVE QTY2) 56 FPS

14 FRCS (ABOVE QTY 1) 34 FPS

15

16 AFT QTY 1 83 %

17 AFT QTY 2 45 %

18

19

20

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

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END OF PAGE 2 OF 2, MSG 035A

MSG 036 (20-1061) - FD06 TRANSFER MESSAGE

Page 1 of 8

1 Good morning Danny, Christer, CJ & Jose

2
3 All of you did an outstanding job yesterday!! You are 63 percent complete on Middeck, 18
4 percent complete on MPLM, and 24 percent complete overall. Today you will be transferring
5 3 more racks, gathering items needed for EVA 2, stowing LiOH, and the ISS crew will be
6 transferring lots of food!

7
8 The Transfer List Excel file, FD06_Transfer_List_STS128.xls, locations are:

- 9 • Shuttle: **C:\OCA-up\transfer** (KFX machine)
- 10 • Station: **K:\OCA-up\transfer**

11 12 Transfer Notes

- 13 • **Pivot Pins:** Yesterday we did not get confirmation that the pivot pins were installed at
14 MPL1F1, MPL1A3, & MPL1F3. The pins and procedure are referenced in the detail
15 pages for the MPLM transfer time on CJ and Kevin (these pins must be installed to
16 retrieve the items required for the food transfer and EVA tool config).
- 17 • **LiOH:** Yesterday Christer got ahead on the LiOH transfer, so the LiOH activities
18 scheduled for today have been consolidated into one activity. Danny will gather the
19 remaining cans from the Middeck and then stow the cans in the CTBs staged in the
20 MPLM Endcone.
- 21 • **Food Transfer:** Today Bob will be gathering the 69 loose food containers in the MPLM
22 and stowing them in 3.0 CTBs. MSG 044 (20-1067): 17A Food Transfer and
23 Consolidate Procedure has been uplinked on both ISS and STS for this activity.

24 25 26 FD06 Choreography

- 27 • **CJ & Kevin**
 - 28 ○ **Items 102 & 244:** Install pivot pins at MPL1F1, MPL1A3, & MPL1F3
- 29 • **Christer & Frank**
 - 30 ○ **Items 222, 223, 224, & 225:** Transfer FIR and temp stow handrails in MPLM
 - 31 ○ **Items 169, 170, & 171:** Transfer MSRR and temp stow handrails in MPLM
 - 32 ○ **Items 104, 105, 106, & 107:** Transfer MELFI-2 Rack and handrails to ISS
- 33 • **Danny (LiOH)**
 - 34 ○ **Items 184, 260.1, 267.1, 269.1, 804, 805, 806, 807, 808, & 809:** LiOH
35 Transfer Part 1
- 36 • **Prior to EVA 2 Tool Config Activities**
 - 37 ○ **Item 153.1:** Transfer RGA for EVA 2 TOOL CONFIG activity
 - 38 ○ **Item 206:** Transfer EVA SLEEVES for EVA 2 TOOL CONFIG activity
 - 39 ○ **Item 242:** Transfer WIRE TIES for EVA 2 TOOL CONFIG activity
 - 40 ○ **Item 108.1:** Transfer S0-TO-NOD3 CABLE BAG CHANNEL 1/4 for EVA 2
41 TOOL CONFIG activity
- 42 • **Item 153.3:** Transfer Double Coldbag for GLACIER SAMPLE XFER activity
- 43 • **Items 7, 8, 9, & 10:** Transfer Glacier samples to ISS per GLACIER SAMPLE XFER
44 activity
- 45 • **Bob**
 - 46 ○ **Items 115, 116, 156, 157, 177.1, 180, 181, 182, 183, 200, 202, 216, 217,**
47 **218, 219, 220, 221, 228, 229, 240, 241, 254, 255, 256, & 265:** Transfer Food
48 Containers per FOOD XFER / CONSOLIDATE activity
- 49 • **Danny** (required Middeck transfer item)
 - 50 ○ **Item 11:** Transfer CTB for FD07 GSC OPS activity

Page 1 of 8, MSG 036 (20-1061)

MSG 036 (20-1061) - FD06 TRANSFER MESSAGE

Page 2 of 8

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

In the Middeck Transfer List **RETURN** tab

Replace the following pages:

Return 1, 3, & 4

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

Replace the following pages:

Return 8, 12 & 13

Changes to the Transfer List are detailed below:

MIDDECK RETURN

Item 715 – updated temp location

Item 736 – updated temp location and notes

Item 613 – deleted item

Item 616 – updated initial location and notes

MPLM RETURN

Item 501 - updated final location

Item 532 – updated notes

Item 546 - updated final location

Item 560 - updated final location

FD07 Choreography

- **Items 124, 125, & 126:** Transfer T2 Panels & Poles
- **Items 151.2 & 151.3:** Transfer Lockers for DECLIC LOCKER XFER activity
- **Items 608 & 609:** Transfer GSCs per GSC OPS activity
- Transfer cargo from backside bags
- Transfer resupply items in temp stowed M-Bags and restow empty bags

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

- The STS-128 Transfer Team

1 Nicole and Pat,

2
3 Today you will be transferring samples from STS Glacier to ISS MELFI. You will be
4 using a Double Coldbag to protect the science during transfer. Below are some
5 suggestions and constraints to keep in mind while performing this activity. This
6 message should be reviewed in conjunction with procedure {UPLINKED
7 PROCEDURES: US SODF: ASSY OPS: 20-1054 (MSG 040) 17A ASCENT
8 SAMPLE TRANSFER FROM GLACIER TO MELFI}.

- 9
- 10 1. Minimize Glacier and MELFI door open time to help reduce moisture and
11 protect other samples. Note that standard timing restrictions on MELFI and
12 Glacier do not apply for this activity.
 - 13 2. Minimize the amount of time that retrieved samples are exposed to ambient
14 air to prevent science warm-up/loss.
 - 15 3. When samples are removed from Glacier, the packing orientation into the
16 Double Coldbag is not important. The packing diagram in the procedure is
17 simply a suggested guide. However, please pay close attention to the
18 insertion location for these samples when placed into MELFI.
 - 19 4. Close the Double Coldbag lid except when inserting samples.
 - 20 5. Close Glacier inner doors except when inserting/removing trays.
 - 21 6. Re-insert the Glacier trays so that the Velcro on the end of the tray is towards
22 the back of Glacier.
 - 23 7. If a MELFI tray gets stuck when opening a Dewar, use the Wireway Cover to
24 aid in the removal of the tray.
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MSG 042 - OCA 48 MEG TROUBLESHOOTING

1 In order to troubleshoot the inability to get an OCA 48 Meg connection on FD02, please
2 perform the following steps:

- 3
4 1. Cable Loopback Test
5 *This will test the cables that interface between the OCA router and the MUX.*
6 Perform on page 12-23 of Orb Ops:

7
8 OCA LOOPBACK TEST
9 (ORB OPS, PGSC) Step 4

10
11 If the Loopback test is successful, report to MCC, otherwise go to Step 2.

- 12
13 2. Swap OCA I/F Cable
14 Swap out the OCA I/F Cable. The spare is located in the Window Shade bag. To
15 install the cable, Ref page 12-9 of Orb Ops, and perform the following:

16
17 OCA RTR PGSC PWR - OFF

18
19 OCA SETUP
20 (ORB OPS, PGSC) Step 8
21 Then PGSC PWR - ON
22 Inform MCC when complete.

23
24 Go to Step 1.

- 25
26 3. 48 Mbps Test
27 On MCC Go, reconfigure for OCA 48 Meg to test the config. Ref page 12-20 of Orb
28 Ops, and perform the following:

29
30 RECONFIGURE OCA DOWNLINK RATE
31 (ORB OPS, PGSC) Part C - 48 Mbps
32 Step 4 is not required.
33 Inform MCC when complete.

- 34
35 4. Config OCA to 2 Mbps

36
37 On MCC Go,
38 RECONFIGURE OCA DOWNLINK RATE
39 (ORB OPS, PGSC)
40 Part D then A, omit Step 4.
41 Report to MCC when complete.

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END OF PAGE 1 OF 1, MSG 042

MSG 043 - FD06 CREW CHOICE DOWNLINK

1 Below are your crew choice downlink opportunities based on KU availability:

2

TDRS	AOS	LOS	Delta (min)	Notes
W	5/02:08	5/02:30	22	
E	5/02:51	05/03:00	9	
Z	5/03:31	05/04:05	34	Analog Only Alpha Stop @ 5/03:32 & 5/03:47
E	5/04:25	5/04:39	14	

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END OF PAGE 1 OF 1, MSG 043

1 Actions for Tool Config:

- 2
- 3 1. Swap the 5/8” proud socket on the round torque multiplier for the 7/16” flush
 - 4 socket using the torque multiplier tool board.
 - 5
 - 6 2. Remove and discard the MISSE PIP Pin pull ring that came free during EVA 1
 - 7 from EV1’s trash bag.
 - 8
 - 9 3. Remove red tape from the load alleviating strap end of all safety tether crew
 - 10 hooks. This will help the team avoid confusing the red tape with the red stripe on
 - 11 load alleviating straps which would indicate damage to the tether.
 - 12

13 Pen and Ink Actions for Procedure Review:

- 14
- 15 4. On FS 7-49, Step 12: (A diagram and additional details of this configuration can
 - 16 be found in the EVA3 Briefing Package (20-1060 or MSG 046)
 - 17 WAS: Stow NOD3 Ch 1/4 Cable Bag on Lab HR 0230 with integrated
 - 18 tethers.
 - 19 IS: Stow NOD3 Ch 1/4 Cable Bag on LAB HR 0237 (fwd stanchion) and HR
 - 20 0231 (aft stanchion) using integrated tethers.
 - 21
 - 22 5. New steps for QD M4 troubleshooting; add to EVA FS 7-53 at the beginning of
 - 23 Step 22
 - 24 1. Inspect QD for debris or damage
 - 25 2. Verify detent button fully up and can be depressed easily; Report to
 - 26 MCC-H
 - 27 3. Pull bail handle harder towards the closed position (AFT) by holding the
 - 28 FWD end of the QD in one hand and pulling on the bail with the other.
 - 29 a. If button is up, go to Step 4
 - 30 b. If button not full up or won’t depress, Cycle valve partially open
 - 31 (FWD) while holding down detent button, then firmly in one continuous
 - 32 motion close valve (bail AFT) and verify button pops back up. If button
 - 33 pops up proceed with Step 4.
 - 34 4. Pull back on release ring and verify FWD white band is not visible.
 - 35 a. If no white band visible, attempt mate of QD using nominal
 - 36 procedures
 - 37 b. If white band still visible, attempt mate while holding the release ring
 - 38 aft (like NBL QDs)

39 Just a reminder: there is Fluid QD hardware onboard if you would like to practice.

40 Any practice would have to be with a 0.75” or 1.0” QD (no 0.5” QDs are available

41 internally). If desired, these QDs are located in CTB1258 at A/L100_Behind

42 Closeout (OBT EVA QD – IVA Use Only). Also there is a Fluid QD CBT which

43 includes a video of a QD in FID but does not show the extra troubleshooting steps

44 we’ve outlined.

20-1059 (MSG 045) – FD06 EVA Deltas

Page 2 of 2

1 6. Question for Danny on M4 QD: Do you recall if the FWD white band was fully
2 visible or partially visible? It is possible that a small piece of the FWD white band
3 can be visible when the ring is retracted. In this case, the QD should operate
4 normally when mating. We still want you to perform the steps above during EVA 2.

5
6 7. Due to the number of MMOD strikes that are on the Z1 tool boxes, we will not
7 perform the Cheater Bar Stow Get-Ahead during any STS-128 EVA. Therefore:

8 On page FS 7-116 TIMELINE GET-AHEADS - STS-128:

9 DELETE: The pen and ink Cheater Bar Stow task

10
11 Action for EMU SWAP:

12 Christer, the MBEDs (Moisture Barrier Earphone Diaphragm) may not seal well on
13 your prime Comm Cap due to pre-flight repairs made in the earcup. The loss of the
14 MBED seal could result in low/no audio for either or both ears. Because of this
15 increased risk, we would like you to use your backup Comm Cap.

16
17 Please include following steps in EMU Swap for EVA 2 (EVA, Airlock Config).

18
19 EMU 3009 (Fg) 10a. Disconnect helmet
20 10b. Remove Fg1 comm cap (s/n 1170) and stow in EVA
21 Return Mesh Bag
22 EVA Return Mesh Bag 10c. Retrieve Wk1 comm cap (s/n 1208)
23 EMU 3009 (Fg) 10d. Install Wk1 comm cap (s/n 1208)
24 10e. Connect helmet
25

26 STS-128 Consumables Tracking Cue Card

27 **Please make the following change to the cue card (box on top right)**

28 From: **Dump CWC:** 1059 for all EVAs

29 To: **Dump CWC:** 5085 for all EVAs

20-1060 (MSG 046) – EVA 3 Briefing Package

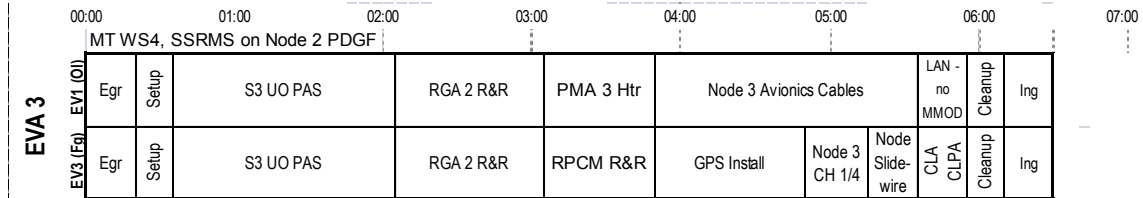
Page 1 of 4

1 EVA3 Briefing Package

2

3 This briefing package is to address the changes to EVA3 as a result of the
 4 uncertainty in Node 3 final location. By routing only the forward end of each cable,
 5 any Node 3 position can be accommodated without undoing work. This is our
 6 preliminary summary timeline. A detailed procedure will be uplinked in the FD08
 7 execute package.

8



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11 NOD3 Avionics Cables:

12

13 **For the Ch 2/3 avionics cable** - routing the forward end of this cable requires a few
 14 deltas to the nominal plan. First, this task will be done by EV1 as a single
 15 crewmember task. While EV1 performs this task, EV2 will install GPS antennas. If
 16 EV1 requires assistance, EV2 can break out of GPS antenna task at any time to
 17 help.

17

18

19 EV1 will stow the Ch 2/3 Cable Bag between LAB HR 0211 and the zenith handrail
 20 of the port LAB strut. This configuration is shown in the figure below. This keeps
 21 the Cable Bag clear of Node 3, and provides the most flexibility for future routing.
 22 We assessed tucking this bag under Z1, but had concerns with reaching handrails,
 23 and violations of Node 3 installation plane. After the bag is stowed, EV1 will relocate
 24 the APFR/TS, if it hasn't already been completed.

24

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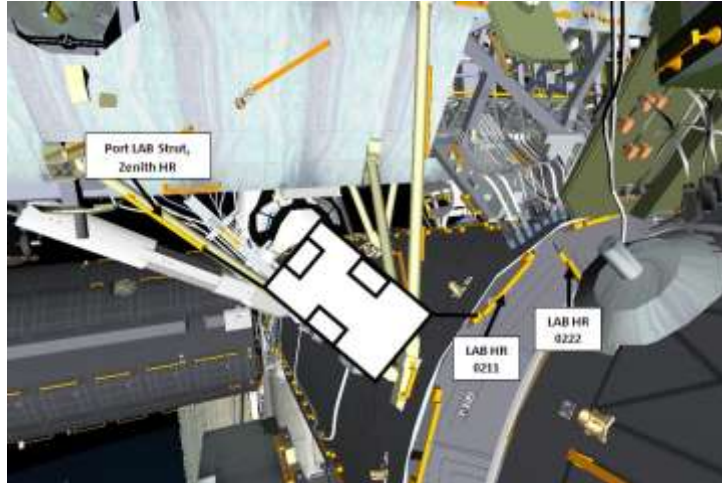
26 The Ch 2/3 'Central' wire tie (N0129) and the next forward wire tie (N0139) will not
 27 be attached to structure. The forward end of the cable will need to be unbundled to
 28 the second wire tie (L0222), but instead of attaching this wire to LAB HR 0222 as
 29 originally planned, it will be attached to LAB HR 0211. The remainder of the forward
 30 end will be routed per the nominal plan, including mating the four electrical
 31 connectors to S0 Panel A145.

31

32

33 After mating the connectors, EV1 will still bias the cable toward the bag, securing
 34 each wire tie in a final config as he goes. When EV1 reaches the bag, he will coil
 35 any loose cable back inside the bag and close it. Finally, when closing it for the final
 36 time, ensure all velcro flaps on the bag are completely overlapped (no velcro
 37 exposed) leaving it in good config for long duration.

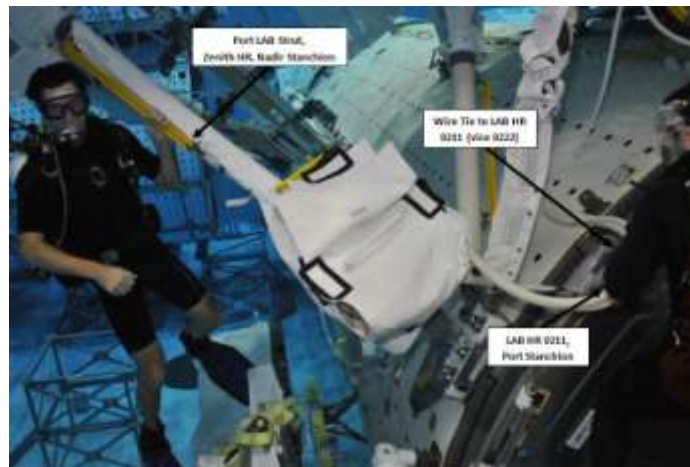
37



Ch 2/3 Cable Bag Stowage Location

(Integrated Tethers to Port LAB Strut/Zenith HR/Nadir Stanchion and LAB HR 0211/Port Stanchion)

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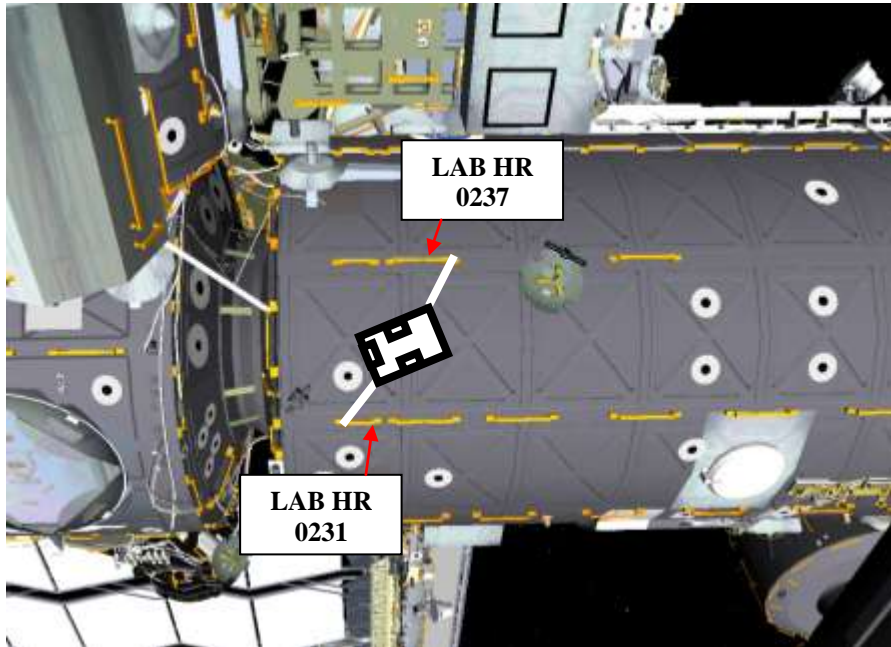


Ch 2/3 Cable Bag Stowage Location (fwd end of cable routed)

For the Ch 1/4 avionics cable - the 'Central' wire tie will be attached to LAB HR 0230 as planned. Routing the forward end of the cable and mating electrical connectors will be as per the nominal plan. The aft end will remain strapped inside the bag. To leave the Ch 1/4 Cable Bag in a safe long-duration configuration, it must be tethered to the ISS as shown in the diagram below. One integrated tether should be attached to the forward stanchion of LAB HR 0237, and the other to the aft stanchion of LAB HR 0231. Again, ensure the velcro flaps completely overlap (no velcro exposed).

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Ch 1/4 Cable Bag Stowage Location (fwd end of cable routed)

NOD1 Slidewire:

Since the NOD3 Ch 2/3 Avionics Bag will remain outside long-term, the slidewire will be stowed in the PMA3 crewlock bag instead of the Avionics Bag. Therefore, when EV1 is complete with PMA3 Heater Cable routing, temp stow that crewlock bag on the equipment lock using the Lg/Sm RET that will be already temp stowed there and the integrated tether. This is instead of stowing it in the A/L. EV2 can then retrieve it from this location before translating to remove the slidewire.

GPS Antenna

In the tool config, expect to pack the GPS antennas in a medium ORU bag bundled to the RPCM crewlock bag as was done in the majority of your training.

20-1060 (MSG 046) – EVA 3 Briefing Package

Page 4 of 4

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PAS Deploy:

The following sequence of pictures show the proper steps to open and restrain the EBCS cover, performed at the end of the PAS deploy. We thought Christer would be interested, as he was not able to see these preflight.



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EBCS Launch Configuration

Step 1: Remove Horizontal Strap



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Step 2: Lift Vertical Straps

Step 3: Fold Back and Wrap Underneath

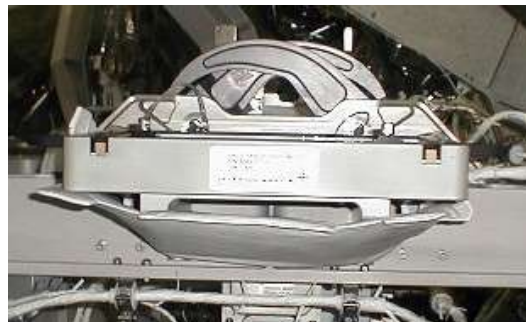


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Step 4: Attach Vertical Straps

Step 5: Attach Horizontal Strap

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Operational Configuration