

STS-124/1J

FD 09 Execute Package



MSG	Page(s)	Title
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076	13 - 14	FD09 Mission Summary (pdf)
077	15 - 16	FD09 Transfer Message (pdf)
078	17	Flight Night 09 TV Config (pdf)
079	---	Stowage Locations for FD09 Plan (GMT 160/161) (pdf - Electronic Only)

Approved by FAO: Jaime Marshik

A handwritten signature in black ink that reads 'Jaime Marshik'. The signature is written in a cursive, flowing style.

Last Updated: Jun 8 2008 6:33AM GMT
JEDI (Joint Execute package Development and Integration), v2.04.0003

MSG 075 - FD09 FLIGHT PLAN REVISION

1 MSG INDEX

2

3 <u>MSG NO.</u>	3 <u>TITLE</u>
4 MSG 075	FD09 Flight Plan Revision
5 MSG 076	FD09 Mission Summary
6 MSG 077	FD09 Transfer Message
7 MSG 078	Flight Night 09 TV Config
8 MSG 079	Stowage Locations for FD09 Plan

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11 1. Post Sleep Cryo Config

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13 For today's cryo config, the active tanks will be O2 Tanks 3 and 4, and H2 Tank 5.

14

15 **R1 O2, H2 MANF VLV TK1 (two) - OP (tb-OP)**
16 **O2 TK3 HTR A – AUTO**

17

18 **A11 CRYO TK4 HTR O2 A - AUTO**

19

20 **A15 CRYO TK5 HTR O2 A – OFF**

21

22

23 2. FD08 MMT Summary

24

25 The FD08 MMT briefly met to discuss mission progress. The team is looking forward to
26 EVA 3 and is very appreciative of the hard work on everyone's part to incorporate the
27 additional inspection of the port SARJ. The team heard status reports from all of the
28 reporting elements and no one is working any significant issues. The MMT continues to
29 be impressed with your hard work and how well this mission is proceeding.

30

31

32 3. N2 Repress Using Payload N2 Valves

33

34 The following pen and inks are required to N2 REPRESS USING PAYLOAD N2
35 VALVES (ORB OPS, ECLS), pg 5-56, scheduled under the CDR at MET 8/01:25. This
36 configuration will allow ISS to manage stack pressure prior to hatch closure.

37

38 WAS:

- 39 R13L If MMU GN2 SPLY ISOL VLV A tb – OP
40 2. MMU GN2 SPLY ISOL VLV A – CL (tb – CL)

41

42 IS:

- 43 R13L 2. MMU GN2 SPLY ISOL VLV A – OP (tb – OP)

44

45

46 4. LiOH Cue Card Delta

47

48 Due to the LiOH swap occurring on FD10, use STS-124 Can 14 in place of the STS-118
49 can for today's pre-sleep LiOH changeout. A new LiOH cue card will be uplinked FD10.

MSG 075 - FD09 FLIGHT PLAN REVISION

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5. For the photo activity scheduled on MS1 at 8/00:40, please take the following photos:

JLP IMV CAP

Take photos of IMV Cap bolt which was broken during JLP CONFIG DEMATE on FD06 (GMT157). The IMV Cap is stowed in the Ziplock inside Mesh Bag JEM 01 at JPM1D7. Restow the IMV Cap in the same Ziplock and the same Mesh Bag.

RLT MSG

Take photos of advisory messages on Msg Sum window on RLT per the following:

- 1) Push Msg Sum button on RLT (Lower left side on RLT window)
- 2) Take photo of all the messages in JEMRMS: Msg Sum window.
- 3) Push Msg Sum button on RLT
- 4) Verify Msg Sum window is closed

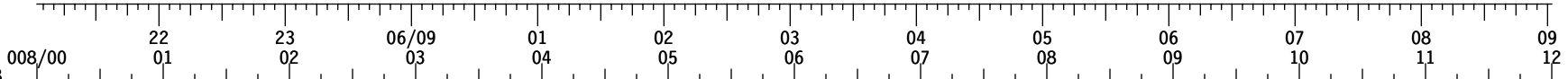
6. Answer for Aki on JEMRMS BDS components:

JEMRMS BDS components are stored in CTB-J-T1 (JPM1O3_C1) and CTB-J-T2 (JPM1O3_C2) in JRSR, and in TRAY_DMS1-3 (JPM1O5_B1) in DMS1 rack.

7. Replace pages 2-30, 2-32 and 3-92 through 3-99.

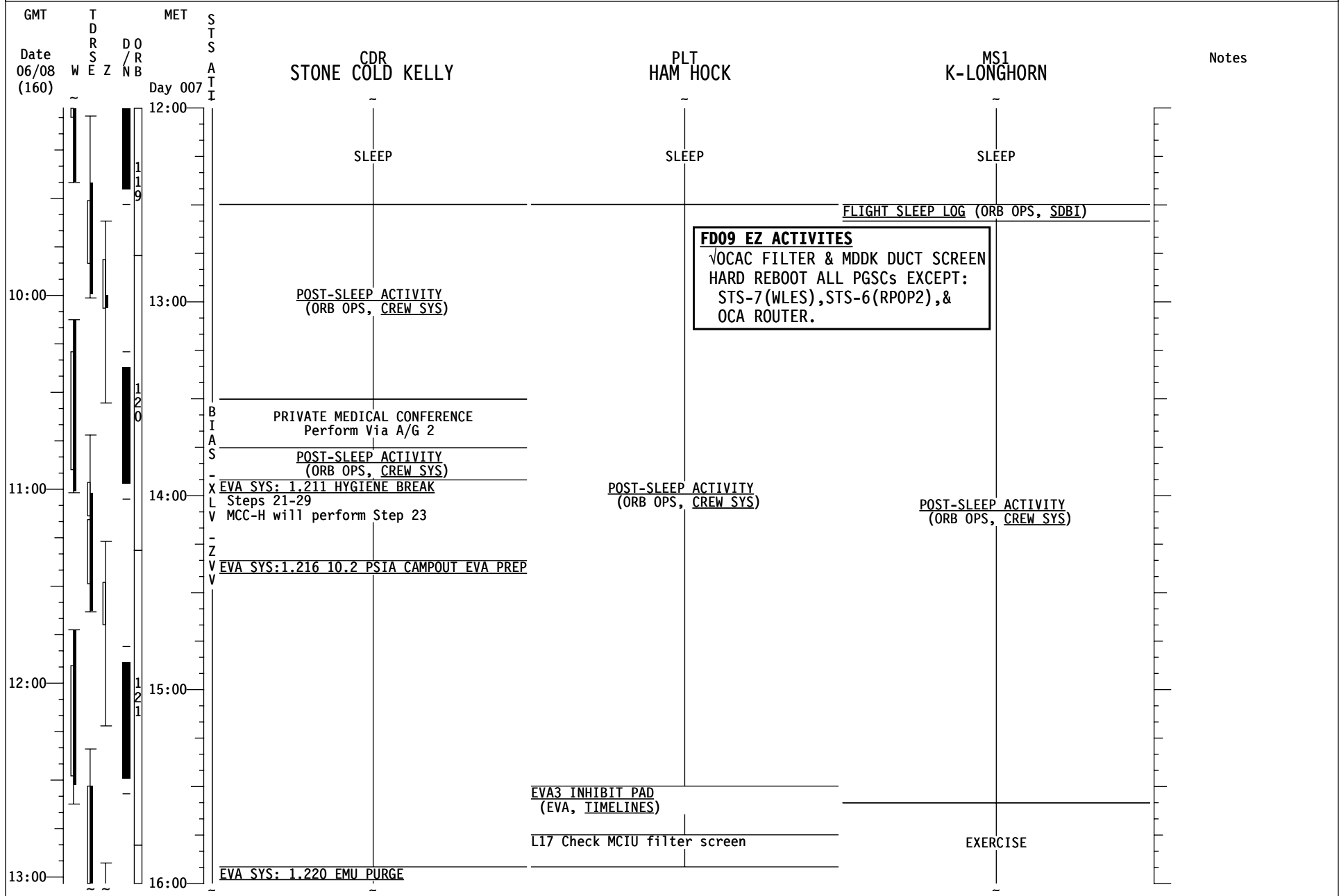
GMT 06/08/08 (160)

MET Day 008



S T S - 1 2 4	FD09 CDR KELLY	POST EVA W/H20		N 2 - I	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP							
	IV PLT HAM	FCMS OPS	T V # U		PRE SLEEP			SLEEP							
	MS1 NYBERG	JLP VEST OUTFIT 1B	P H O T O		PRE SLEEP			SLEEP							
	EV2 MS2 GARAN	POST EVA W/H20			PRE SLEEP			SLEEP							
	EV1 MS3 FOSSUM	POST EVA W/H20			PRE SLEEP			SLEEP							
	MS4 HOSHIDE	JLP VEST OUTFIT 1B	X T F A E R U P	X T F A E R U P	B F R E I R E F	PRE SLEEP			SLEEP						
D N	FE-2 REISMAN	*	PW	E V A *	DPC	PS		SLEEP (8.5)							
E X P 1 7	ISS CDR VOLKOV	T E X T I S R	PW	PS	DPC	PS	B M P Φ 2 E N D	PS	SLEEP (8.5)						
	FE-1 KONONENKO	C E V I S	PW		DPC	PS		SLEEP (8.5)							
U P	FE-2 CHAMITOFF	C M H U	PW		DPC	PS		SLEEP (8.5)							
S T S	ORBIT DAY/NIGHT	127 128 129 130 131 132 133 134 135													
	W -171	[Timeline bars showing activity]													
	TDRS E -46 Z 275	[Timeline bars showing activity]													
	ORB ATT	BIAS -XLV -ZVV													
	NOTES	*02 CAL #FN09 CNFG *D/L													

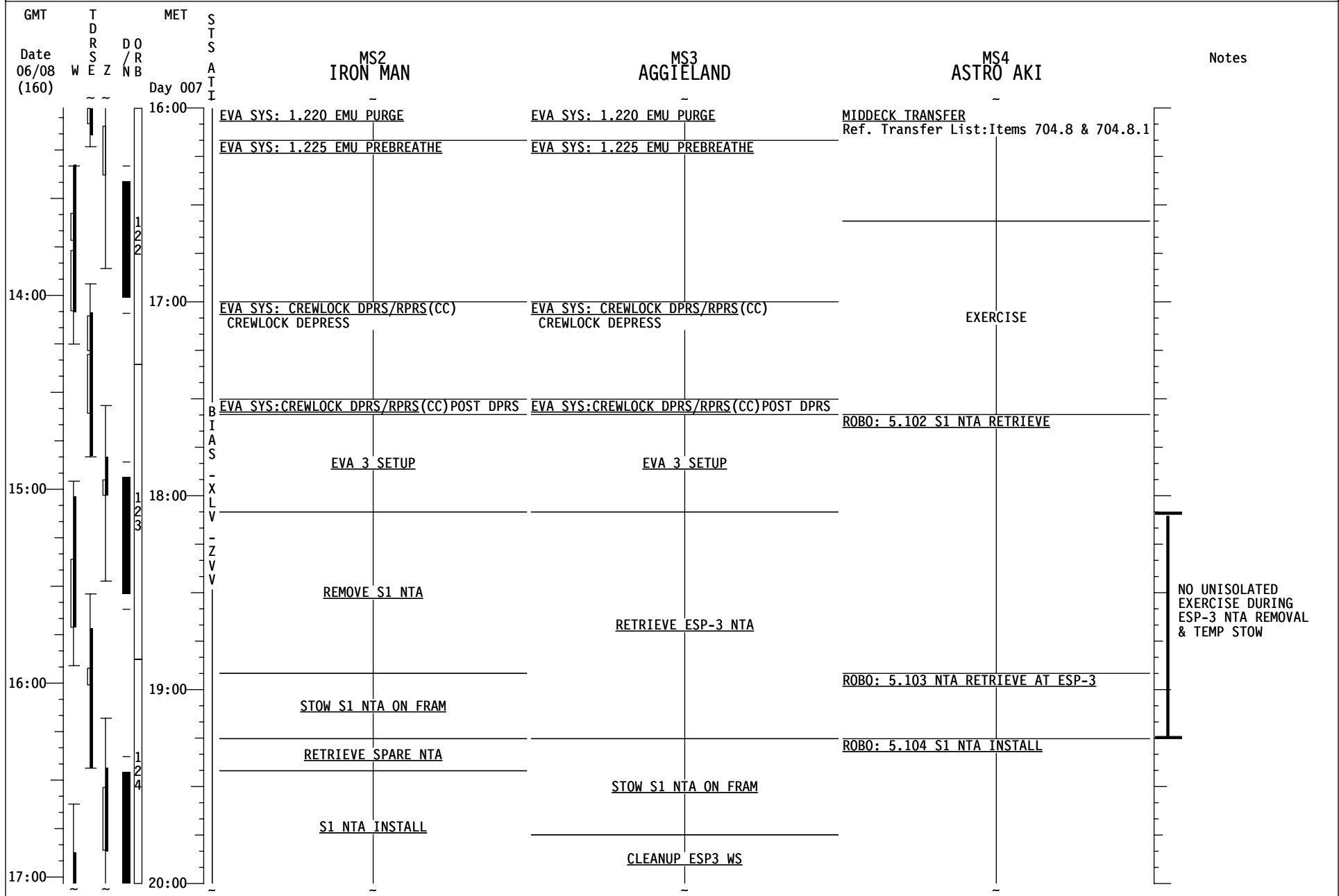
STS-124 FD09



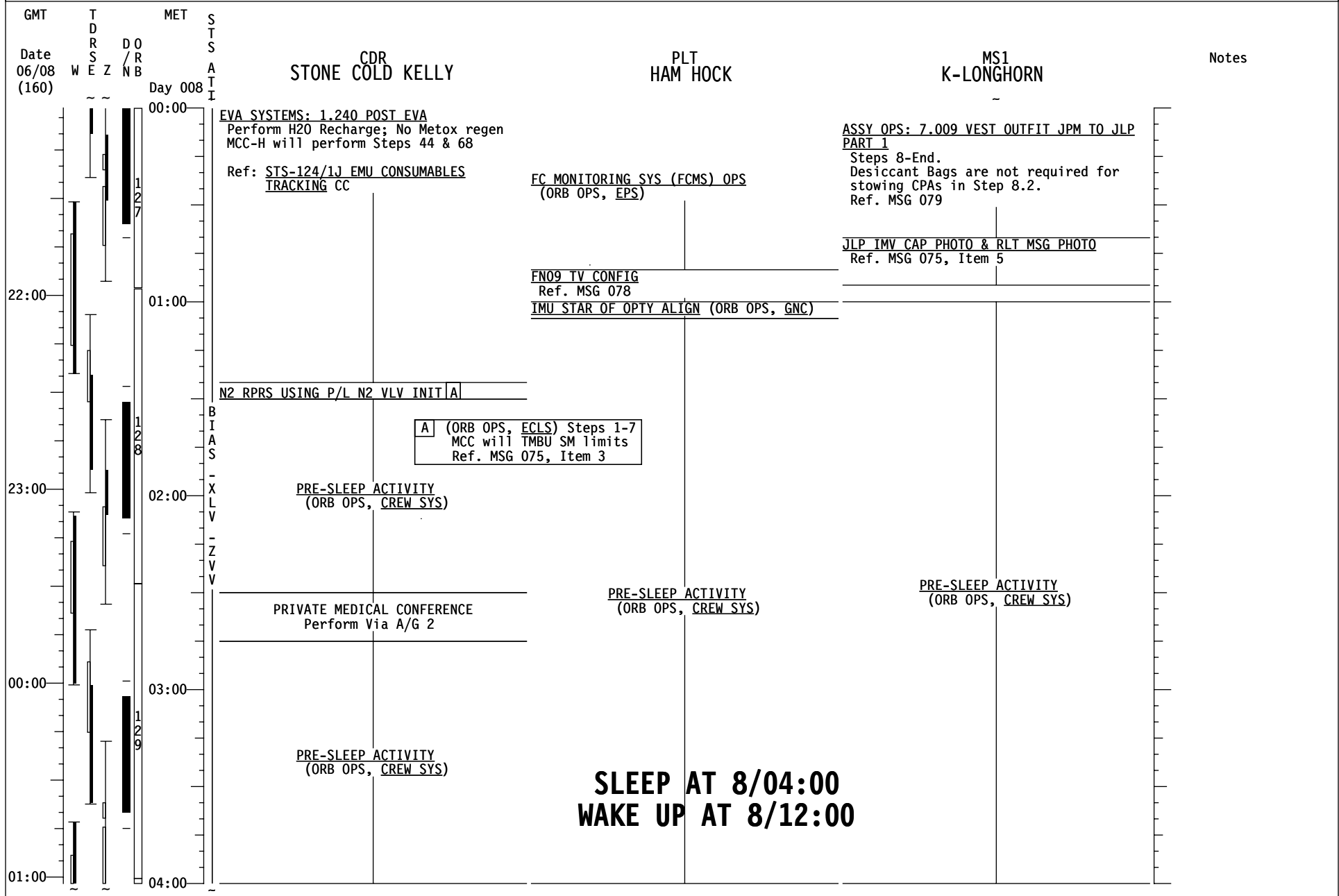
STS-124 FD09

GMT	T D R S W E Z	MET	S T S A T I	CDR	PLT	MS1	Notes
Date 06/08 (160)	W E Z	Day 007		STONE COLD KELLY	HAM HOCK	K-LONGHORN	
16:00				EVA SYS: 1.220 EMU PURGE		EXERCISE	
				EVA SYS: 1.225 EMU PREBREATHE			
14:00				EVA SYS: CREWLOCK DPRS/RPRS(CC) CREWLOCK DEPRESS	EXERCISE	MIDDECK TRANSFER Ref. Transfer List: Items 715.2 & 803	
				EVA SYS: CREWLOCK DPRS/RPRS(CC) POST DPRS	P/TV07 EVA (PHOTO/TV, SCENES) Perform SETUP		UPLINK β21 Only Box 40,55,60
15:00				P/TV07 EVA (P/TV, SCENES) Perform OPS	EVA SYS: CREWLOCK DPRS/RPRS(CC) POST DPRS	ROBO: 5.102 S1 NTA RETRIEVE	
				SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) INIT #6 Ref. MSG 020			
16:00				P/TV07 EVA (P/TV, SCENES) Perform OPS	IVA SUPPORT FOR EVA		NO UNISOLATED EXERCISE DURING ESP-3 NTA REMOVAL & TEMP STOW
				SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Report B/C and S/N to MCC		ROBO: 5.103 NTA RETRIEVE AT ESP-3	
17:00				CWC TRANSFER Transfer 1 CWC to ISS		ROBO: 5.104 S1 NTA INSTALL	
				MEAL			

STS-124 FD09



STS-124 FD09



MSG 076 - FD09 MISSION SUMMARY

1
2 Good Morning Discovery!!!

3
4 Yesterday was another great day for all of you! The JEM really looks like a lab now. It has
5 lost that "gym" look.

6
7 Have a great EVA!!!!

8
9
10
11
12
13 YOUR CURRENT ORBIT IS: 185 X 181 NM

14
15 NOTAMS:

16
17 EDW – LAKEBED RUNWAY 15/33 ELS ONLY. OTHER LAKEBED RWYS RED.
18 NOR – LAKEBED RUNWAYS GREEN.
19 NTU – NGU TACAN CH CHANGED TO 86Y.
20 YJT – TACAN CH 78 DME ONLY.
21 HAW – RWY 31 CLOSED. RWY 13 TODA 8,994'.
22 WAK – CLOSED. NOT USABLE.
23 IKF – NOT USABLE. NO AGREEMENT.
24 BEN – NOT RECOMMENDED/NOT SUPPORTED.
25 ZZA – FIRST 600M (~2,000') OF RWY 30L NOT AVAILABLE. 10,200' REMAINING.
26 NKT - CLOSED

27
28 NEXT 2 PLS OPPORTUNITIES:

29
30 NOR23 ORB 125 – 7/21:12 SKC 210/15P25
31 NOR23 ORB 141 – 8/21:35 SKC 100/3P6

32
33
34 OMS TANK FAIL CAPABILITY:

35
36 L OMS FAILS: NO
37 R OMS FAILS: NO

38
39 LEAKING OMS PRPLT BURN:

40
41 L OMS LEAK: ALWAYS BURN RETROGRADE
42 R OMS LEAK: ALWAYS BURN RETROGRADE

43
44 OMS QUANTITIES(%)

45
46 L OMS OX = 30.3 R OMS OX = 30.3
47 FU = 29.9 FU = 30.3

48
49 SUBTRACT INTERCONNECT COUNTER TO OBTAIN CURRENT OMS QUANTITIES
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51

MSG 076 - FD09 MISSION SUMMARY

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DELTA V AVAILABLE:

OMS	318 FPS
<u>ARCS (TOTAL ABOVE QTY1)</u>	<u>37 FPS</u>

TOTAL IN THE AFT 355 FPS

ARCS (TOTAL ABOVE QTY2)	70 FPS
FRCS (ABOVE QTY 1)	29 FPS

AFT QTY 1 81 %

AFT QTY 2 43 %

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

MSG 077 (17-0373) - FD09 TRANSFER MESSAGE

Page 1 of 11

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Good morning Aki, Karen, Garrett and Mark!

We have confirmed that all items available for transfer (other than the ones you had questions about) up thru FD8 have been completed—great work! We have listed all of the items that can be transferred today in your choreography below. You are currently 86% complete on Resupply, 54% complete on Return, and 65% complete overall! You should have more than enough time in the plan to complete the remaining items.

Aki, today several items are going to be packed into return bags 401 & 402 by Garrett during various activities per the stowage note (the details are listed below in the choreography). We recommend you tag up with Garrett prior to the transfer brief this afternoon to confirm that all of those items have been packed for return.

For the Lost EVA torque wrench we have added our best guess on its location to the transfer list. If you do not find it by the end of FD10 we will remove it from the transfer list (we do not expect you to go hunting for it today since it's an EVA day). Note that the torque wrench that you just brought up was stowed in the same location we're suggesting you check, so if you find a wrench in there, please check the S/N's against the Transfer List to make sure it's the right one!

For Mark & Garrett's question concerning item 704.8 (the ACK) the one that was found was not the correct kit. The correct kit was moved just prior to launch so we have updated the transfer list with the correct location. The kit IS the CTB but they have different S/N's. The kit should be S/N 1007 and the CTB should be S/N 1131. Also the earplugs (item 704.8.1) are not the generic foam earplugs. They are the custom molded earplugs for Garrett and since they can not be used by anyone else they do need to return inside the ACK (item 704.8).

For Bag I, since Mark reported that this bag was full we have deleted the blood collection kit (transfer list item 705.4) that was still open to transfer to Bag I and added it to Bag C (transfer list item 702.2).

For STS, the Transfer List Excel file, FD09_Transfer_List_STS124.xls, is located on the KFX machine in **C:\OCA-up\transfer**.

For ISS, the Transfer List Excel file, FD09_Transfer_List_STS124.xls, is located in **K:\OCA-up\transfer**.

FD09 Choreography (items for transfer today)

- Items 401.1, 402.1 thru 402.4 (Garrett): Transfer the ITCS Samples, Petri samples, SSK, & CSA-O2 per the stowage note
- Items 704.8 & 704.8.1 (Aki): Transfer the ACK and earplugs during MDDK XFER.
- Items 715.2 & 803 (Karen): Transfer the Blood Collection Kit and Batteries during MDDK XFER.

MSG 077 (17-0373) - FD09 TRANSFER MESSAGE

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Please update the Transfer List as follows:

In **RESUPPLY** tab:

Replace page 13

In **RETURN** tab:

Page 3: In Item 403.3, change “VRT” in the notes column to “VTR”

Replace pages 6, 9, 11, 13, 14, 15, 16, & 17

FD10 Choreography (items for transfer tomorrow)

- Items 704.9 (Mark): Transfer old Hydrogen Sensors per OGS stowage relocate activity
- Items 710 thru 713 (Ron & Mike): Transfer EVA Hardware per EVA XFER
- Item 700.2 (Mark): Stow old BCMs in Bag A in Columbus after BCM R&R during MDDK XFER
- Items 401.2 (Garrett): Transfer the ITCS sample after sampling activities
- Item 403.3 (Greg): Transfer the IWIS tape after the VTR Tape Exchange
- Items 9 & 717 (Ken): Transfer LiOH during LiOH SWAP
- Begin transferring 5 MLE Bags back to shuttle per crew preference
 - Bag B: only remaining item is the silver biocide kit which is already temp stowed on shuttle.
 - Bag D: packed and ready for transfer.
 - Bag J: packed and ready for transfer.

Let us know if you have questions.

- The Transfer Team

MSG 078 - FLIGHT NIGHT 09 TV CONFIG

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Perform this procedure in lieu of PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) Step 6.

- O19 TV PWR - OFF
- A7 √ TV DNLK - ENA
 - √ CONTR UNIT - MNA
- VID OUT MON 2 pb - push
- IN B pb - push
- R12 (VPU) √ PWR - ON
 - GREEN JUMPER - LDRI/ITVC
- A3 TV MON 2
 - PWR - ON
 - Brightness Knob - Turn Counterclockwise
- TV MON 1
 - PWR - OFF
- L10 (VTR) Recording Devices/Camcorders - off
- (VIP) ON/STANDBY pb - push (LED red)
- (MUX) PWR - off (LED off)
- MUX/VTR/CC PWR - off (LED off)
- VTR/CC PWR - off (LED off)
- PLB LIGHTS - off
- DDUs - off