STS-122 / 1E

FD 10 Execute Package

MSG	Page(s)	Title
082A	1 - 11	FD10 Flight Plan Revision **(pdf)**
083	12 - 13	FD10 Mission Summary **(pdf)**
084	14	FD09 MMT Summary **(pdf)**
085	15	FD10 Transfer Message **(pdf)**
086	16	FD10 Reboost Procedure **(pdf)**
087	---	FD10 PAO Event Summary - Crew News Conference **(pdf - Electronic Only)**
088	17 - 19	EVA 3 Tool Deconfig **(pdf)**
089	20	Post EVA EMU Reconfiguration and Transfer **(pdf)**

Approved by FAO: *Jennifer Clevenger*

Last Updated: Feb 16 2008 7:29AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

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MSG INDEX

MSG NO.	TITLE
082	FD10 Flight Plan Revision
083	FD10 Mission Summary
084	FD09 MMT Summary
085	FD10 Transfer Message (16-1053)
086	FD10 Reboost Procedure
087	FD10 PAO Event Summary – Crew News Conference (16-1054)
088	EVA 3 Tool Deconfig (16-1057)
089	Post EVA EMU Reconfiguration and Transfer (16-1059)

1. O2 Transfer Deltas
   Make the following pen-and-ink deltas to JOINT OPS: 3.116 HIGH PRESSURE TANK O2 TRANSFER, Step 2.2:

   Was:
   ML86B:C 2.2 √cb MNB EXT AIRLK HTR LN ZN 1,2 (two) – cl
   √cb MNA EXT AIRLK HTR LN ZN 1,2 (two) – op

   Is:
   ML86B:C 2.2 cb MNC EXT ARLK HTR LN ZN 1,2 (two) – cl

2. WATER TRANSFER HOSE INJECTION PORT
   At some point today, please provide more information on the possible leak around the water transfer hose injection port that was reported yesterday. Is it possible that this could be condensation around the port? This same hardware flew on STS-117 and a similar condition was reported. Post flight troubleshooting was unable to produce a leak of any kind and was believed to be condensation. Pictures of the injection port may be useful in post flight analysis if time permits.

3. Hello Rex, Hans, Stan, and Dex, great job on the EVA yesterday! We have some updates to your EVA 3 Tool Deconfig in MSG 088 (16-1057), and Post EVA Reconfiguration and Transfer in MSG 089 (16-1059).

4. Rex, we had two questions for you related to your loss of comm during your transfer to battery power on EVA 2. We are trying to determine if the EMU radio software locked up, or if the radio just did not power-up.

   A. When you went to BATT power and lost comm, did you hear the warble tone and/or notice the power restart message?
   B. Did you have sidetones during the time period that you had no comm?

5. Rex, we heard you call down that your wobble socket was sticky at one point during EVA 3. Was this a single instance of stickiness, or would you say that this wobble socket was sticky throughout the EVA?

6. There are no exercise constraints for FD10.

7. REPLACE PAGES 2-34, 2-36, AND 3-104 THROUGH 3-111.

FD10

GMT 02/16/08 (047)

MET Day 008

08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 009/00

STS-122	CDR FRICK	SLEEP	POST SLEEP; N2*; ICNT*; H/O; MNVR; REBOOST CONFIG 3; M-NVLRV; H/O; N2*; CREW CONF; CREW PHOTO; PWR FILL #8; IMU; CWC11; INIT; MEAL; CTWCRM; O2 XFER RECONFIG; O2-I; EXERCISE; CWC; XFER; RCS*
STS-122	PLT POINDEXTER	SLEEP	CDM-D; POST SLEEP; CDM@; PWR FILL #6; PWR FILL #7; REBOOST CONFIG 3; CREW CONF; CREW PHOTO; O2%; EXERCISE; O2@; MEAL; OFF DUTY; WCS*
STS-122	MS1 MELVIN	SLEEP	LOG; POST SLEEP; DTV; MCIU; XFR; UPDAT; EXERCISE; CREW CONF; CREW PHOTO; XFER OPS; MEAL; XFER OPS; PTV08 EXTRNL SRVY; XFER; TAG; BRIEF
STS-122	MS2/EV1 WALHEIM	SLEEP	LOG; ASPRN; POST SLEEP; EVA TOOL DECNFG; POST EVA RCNFG/XFER; CREW CONF; CREW PHOTO; POST EVA RCNFG/XFER; MEAL; OFF DUTY; EXERCISE
STS-122	MS3/EV2 SCHLEGEL	SLEEP	SLVA; DLRY; POST; SLEEP; DRY; POST SLEEP; BLB AI CI INSTL; BLB VTR SI#; VTR#; CREW CONF; CREW PHOTO; DRY; BLB LAPTP S/U; MEAL; BGB SI INSTL; BGB CI INSTL; BLB*; BGB^; DRY; MUS; PRE SLEEP
STS-122	MS4/EV3 LOVE	SLEEP	LOG; SLVA; ASPRN; SLEEP; DRY; POST SLEEP; EVA TOOL DECNFG; POST EVA RCNFG/XFER; CREW CONF; CREW PHOTO; DRY; POST EVA RCNFG/XFER; MEAL; OFF DUTY; DRY; EXERCISE
DN	FE-2 TANI	SLEEP	POST SLEEP; WINDOW; DPC; DCS; EXERCISE TVIS; EXERCISE RED; S/U; HANDOVER; CREW CONF; CREW PHOTO; MTX-T; MTX-I; VOA RMV; MIDDAY-MEAL; VOA OMI C/O; PMC; PWORP
ISS	ISS CDR WHITSON	SLEEP	POST SLEEP; PW; DPC; EDR; GTHR; H2O & DATA; EDR*; SWVF; FIRE; C/O; PS28 T/S PT1; COL ZSR PACK; EXERCISE CEVIS; EDR%; CREW CONF; CREW PHOTO; CWC; EXERCISE RED; MIDDAY-MEAL; S/S; O2 XFER RECONFIG; O2-I; FIBER; COL ZSR PACK2; VEST DPRS
ISS	FE-1 MALENCHENKO	SLEEP	POST SLEEP; PW; DPC; КПТ-2-EXE-3; EXERCISE TVIS; CREW CONF; CREW PHOTO; KUB3; VELO; MIDDAY-MEAL; KUBIK; ТКГ-БВ2-УРИНА-XFER; СОЖ МПТ; KUBIK; ИМП-1; MNT; PWORP
UP	FE-2 EXP16 EYHARTS	SLEEP	POST SLEEP; PW; DPC; EPM; SWVF; LANSTPL; FIRE; C/O; EXERCISE CEVIS; LED; LPTP; C/O; SELF#; CRCO; HANDOVER; CREW CONF; CREW PHOTO; CWC; UDP C/O; FSL ODM S/U; MIDDAY-MEAL; FSL ODM S/U; LOG; PW

DAY/NIGHT

ORBIT 136 137 138 139 140 141 142 143

TDRS W -171.0 E -46.0 Z -275.0

ORB ATT: BIAS -XLV -ZVV; REBOOST; BIAS -XLV -ZVV

NOTES:
*RPRS INIT
*TK SWITCH: R to L OMS FEED
@COMPLETION
*LAPTOP-INSTL
#INSTL
#TEST-C/O
*RPRS TERM
#CI-INSTL
%LAPTOP-ACT
%RPRS INIT
@RPRS TERM
*COMPACT
*BGB CONT TEST
^BBG STRLZE TEST
*HEATER RC

02/16/08 01:22:26 **REPLANNED**

FD10
GMT 02/16/08 (047)
MET Day 009

		20	21	22	23	02/17	01	02	03	04	05	06	07
009/00	01	02	03	04	05	06	07	08	09	10	11	12	

STS-122	CDR FRICK	PMC A/G	PRE SLEEP				SLEEP							POST SLEEP
	PLT POINDEXTER	PRE SLEEP					SLEEP							POST SLEEP
	MS1 MELVIN	PRE SLEEP					SLEEP						LOG	POST SLEEP
	MS2/EV1 WALHEIM	EXER CISE	PRE SLEEP				SLEEP						LOG	POST SLEEP
	MS3/EV2 SCHLEGEL	♣	EXERCISE	PRE SLEEP		DRY	SLEEP						LOG	POST SLEEP
	MS4/EV3 LOVE	⊕	PRE SLEEP			DRY	SLEEP						LOG	POST SLEEP
DN	FE-2 TANI	PREP	WORK	DPC	PRE SLEEP	PFC	PRE SLEEP-ISS		SLEEP				SLVA	POST SLEEP
ISS	ISS CDR WHITSON	VEST	DPRS	DPC	PRE SLEEP-ISS				SLEEP				SLVA	POST SLEEP
	FE-1 MALENCHENKO	♦	DWNLD	DPC	PRE SLEEP-ISS				SLEEP					POST SLEEP
UP	FE-2 EXP16 EYHARTS	PW	DPC	PRE SLEEP-ISS					SLEEP				SLVA	POST SLEEP

DAY/NIGHT

ORBIT: 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151

TDRS W -171.0, E -46.0, Z -275.0

ORB ATT: BIAS -XLV -ZVV

NOTES
♣PRE SLEEP
⊕EXERCISE
♦PREP WORK

3

STS-122 FD (10)

REPLANNED

GMT Date 02/16 (047) | W | TDRSE | Z | DORB | ORB | MET Day 008 | STS ATT

CDR FRICK	PLT POINDEXTER	MS1 MELVIN	NOTES
SLEEP	SLEEP	SLEEP	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	CDM DEACTIVATION (ORB OPS, CDM DTO)	FLIGHT SLEEP LOG (ORB OPS, SDBI)	
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
N2 REPRESS USING PAYLOAD N2 VLVS [A] I'CNCT TK SWTCH: R to L OMS FEED(OPCL,RCS)	DTO COMPLETION (ORB OPS, CDM DTO)		
	PWR FILL (ORB OPS, ECLS) Perform Water Fill #6 Ref. MSG 005	L10(VTR) ON/STANDBY - OFF(LED red) L10(VIP) PWR - OFF(LED off) L10(MUX) MUX/VTR/CC PWR - OFF(LED off) L17 Check MCIU filter screen DAILY TRANSFER LIST UPDATE Ref. Transfer List & MSG 085	
JOINT OPS: 3.110 HANDOVER ATTITUDE CONTROL CMG TA to ORBITER	PWR FILL (ORB OPS, ECLS) Perform Water Fill #7, Ref. MSG 005		

FD10 EZ ACTIVITIES:
OCAC FILTER INSPECTION
HARD REBOOT ALL PGSCs

[A] N2 REPRESS USING PAYLOAD N2 VLVS (ORB OPS, ECLS)
Steps 1-5, On MCC Go, perform step 6
MCC will TMBU all S/W limits

Time scale: 08:00, 09:00, 10:00, 11:00; 12:00, 13:00, 14:00, 15:00, 16:00

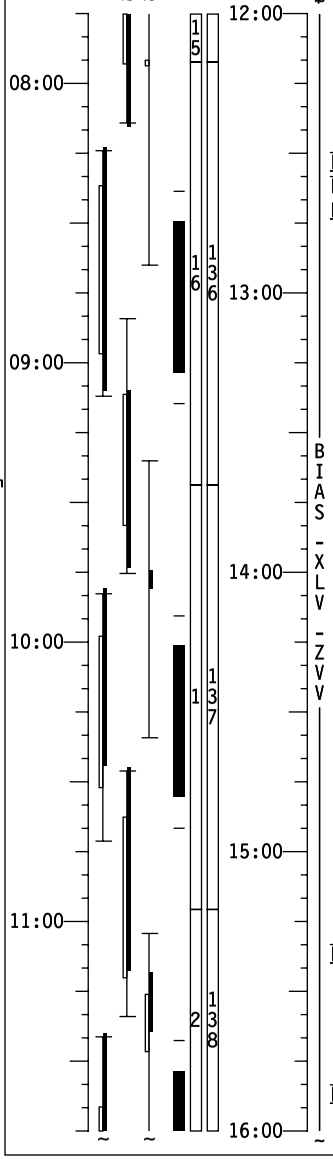
DORB: 15, 16, 1, 2; ORB: 136, 137, 138

BIAS - XLV - ZVV

STS-122 FD (10)

REPLANNED

GMT Date 02/16 (047) | W | TDRSE | Z | DORB | ORB | MET Day 008 | STS ATT



MS2 WALHEIM	MS3 SCHLEGEL	MS4 LOVE	NOTES
SLEEP	SLEEP	SLEEP	
FLIGHT SLEEP LOG (ORB OPS, SDBI)	LIQUID SLVA SAMPLE(ORB OPS,SDBI)	FLIGHT SLEEP LOG (ORB OPS, SDBI)	
EVA CREW: TAKE 1 ASPIRIN (325mg)	DRY SALIVA CLCT(ORB OPS,SDBI)	LIQUID SLVA SAMPLE(ORB OPS,SDBI)	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	FLIGHT SLEEP LOG (ORB OPS, SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	EVA CREW: TAKE 1 ASPIRIN (325mg)	
		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
EVA TOOLS MANAGEMENT Perform FD10 - EVA 3 Deconfig Steps Ref. MSG 088		EVA TOOLS MANAGEMENT Perform FD10 - EVA 3 Deconfig Steps Ref. MSG 088	
	1.601 BIOLAB ANALYSIS INSTRUMENTS CMSSN ITEMS INSTALL (ASSY PAYLOADS, BIOLAB)		
POST EVA EMU RECONFIGURATION AND TRANSFER (EVA, AIRLOCK CONFIG) Ref. MSG 089		POST EVA EMU RECONFIGURATION AND TRANSFER (EVA, AIRLOCK CONFIG) Ref. MSG 089	

STS-122 FD (10)

REPLANNED

GMT Date 02/16 (047) | W | TDRS E | TDRS Z | DORB 2 3 4 5 | ORB 138 139 140 141 | MET Day 008 | STS ATT REBOOST BIAS -XLV -ZVV

CDR FRICK

16:00
- JOINT OPS: 3.110 HANDOVER ATTITUDE CONTROL CMG TA to ORBITER
- MNVR (TRK) REBOOST ATTITUDE TG=2 BV=5 P=175 Y=0 OM=172 A12/AUTO/VERN Init TRK
- AUTO REBOOST, CONFIG 3 Ref. MSG 086

17:00
- MNVR (TRK) BIAS -XLV -ZVV TG=2 BV=5 P=161 Y=354 OM=193 A12/AUTO/VERN Init TRK
- JOINT OPS: 3.111 HANDOVER ATTITUDE CONTROL ORBITER to CMGTA
- N2 REPRESS USING PAYLOAD N2 VLVS [A]

18:00
- CREW CONFERENCE ISS KU AVAIL: 17:54:29 - 18:48:21 Ref. MSG 087
- CREW PHOTO

19:00
- PWR FILL (ORB OPS, ECLS) Perform Water Fill #8 Ref. MSG 005
- IMU ALIGN - S TRK (ORB OPS, GNC)

20:00
- SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) INIT FILL #11 Ref. MSG 005, Fill Dur ~52 min

PLT POINDEXTER

- PWR FILL (ORB OPS, ECLS) Perform Water Fill #7, Ref. MSG 005
- AUTO REBOOST, CONFIG 3 Ref. MSG 086
- CREW CONFERENCE ISS KU AVAIL: 17:54:29 - 18:48:21 Ref. MSG 087
- CREW PHOTO
- O2 REPRESS INIT [B]
- EXERCISE

MS1 MELVIN

- EXERCISE
- [A] N2 REPRESS USING PAYLOAD N2 VLVS (ORB OPS, ECLS)
  On MCC Go, perform steps 7-12
  After Step 9, perform
  M010W √H2O TK N2 REG INLET SYS 2 vlv - CL
  MCC will TMBU all S/W limits
- [B] O2 REPRESS INIT
  OCAC OCAC PWR - OFF
  C5 DIRECT O2 vlv - OP
  Perform the following H/W C&W action:

R13U	C/W CH	PARAMETER NAME	NEW VALUE (V)
	034	CAB PPO2 A	INH
	044	CAB PPO2 B	INH

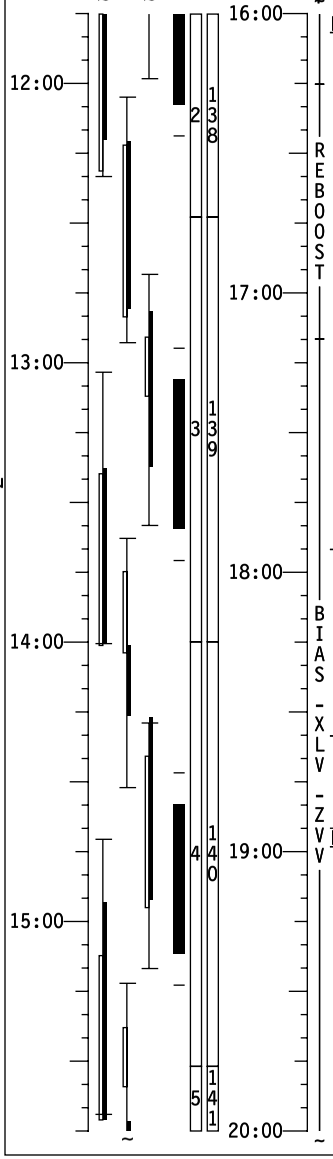
  MCC will TMBU all S/W limits
- CREW CONFERENCE ISS KU AVAIL: 17:54:29 - 18:48:21 Ref. MSG 087
- CREW PHOTO
- TRANSFER OPS Ref. Transfer List, Items 407 - 407.2

NOTES

STS-122 FD (10)

REPLANNED

GMT Date 02/16 (047) | W | TDRSE | Z | DORB | ORB | MET Day 008 | STS ATT



MS2 WALHEIM	MS3 SCHLEGEL	MS4 LOVE	NOTES
POST EVA EMU RECONFIGURATION AND TRANSFER (EVA, AIRLOCK CONFIG) Ref. MSG 089	1.601 BIOLAB ANALYSIS INSTRUMENTS CMSSN ITEMS INSTALL (ASSY PAYLOADS, BIOLAB)	POST EVA EMU RECONFIGURATION AND TRANSFER (EVA, AIRLOCK CONFIG) Ref. MSG 089	
	ESA: BLB COMM: 1.921 BIOLAB VTR STOWAGE ITEMS INSTALLATION		
	ESA: BLB COMM: 1.922 BIOLAB VTR CMSSN ITEMS INSTALL		
CREW CONFERENCE ISS KU AVAIL: 17:54:29 - 18:48:21 Ref. MSG 087	CREW CONFERENCE ISS KU AVAIL: 17:54:29 - 18:48:21 Ref. MSG 087	CREW CONFERENCE ISS KU AVAIL: 17:54:29 - 18:48:21 Ref. MSG 087	
CREW PHOTO	CREW PHOTO	CREW PHOTO	
POST EVA EMU RECONFIGURATION AND TRANSFER (EVA, AIRLOCK CONFIG) Ref. MSG 089	DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	
	ESA PODF: BLB COMM: 1.701 BIOLAB LAPTOP STOWAGE ITEMS INSTALLATION Perform step 3-end	POST EVA EMU RECONFIGURATION AND TRANSFER (EVA, AIRLOCK CONFIG) Ref. MSG 089	

STS-122 FD (10)

REPLANNED

GMT Date 02/16 (047) | W | TDRSE | Z | DORB | ORB | MET Day 008 | STS ATT | CDR FRICK | PLT POINDEXTER | MS1 MELVIN | NOTES

20:00

SHUTTLE/ISS H2O CNTR FILL (see page 3-106) O2 REPRESS TERM on MCC GO [C]

TRANSFER OPS Ref. Transfer List

16:00

MEAL

MEAL

MEAL

5 | 141

21:00

SHUTTLE/ISS H2O CNTR FILL
(ORB OPS, ECLS)
Perform FILL TERMINATION

TRANSFER OPS
Ref. Transfer List

17:00

JOINT OPS: 3.123 O2 TRANSFER SETUP
(POST PREBREATHE USING SHUTTLE O2)

[C] O2 REPRESS TERM on MCC GO
C5 DIRECT O2 vlv - CL
OCAC OCAC PWR - ON

On MCC GO, perform the following H/W C&W action:

R13U	C/W CH	PARAMETER NAME	NEW VALUE (V)
	034	CAB PPO2 A	ENA
	044	CAB PPO2 B	ENA

MCC will TMBU all S/W limits

BIAS - XLV - ZVV

22:00

OFF DUTY

6 | 142

18:00

JOINT OPS: 3.116 HIGH PRESSURE TANK O2 TRANSFER(Init)
Steps 1 & 2, Ref. MSG 082, Item 1

P/TV08 EXTERNAL SURVEY
(PHOTO/TV, SCENES)
Ops

EXERCISE

23:00

WCS COMPACTOR OPS (DUAL-VANE)
(CUE CARD)1st Compaction

19:00

7 | 143

CWC TRANSFER
Transfer 1 CWC to ISS

TRANSFER TAGUP
Coordinate with xfer counterpart

TRANSFER BRIEF
Call down status to MCC

00:00

A14 RCS/OMS HTR L POD B - OFF
A - AUTO

STS-122 FD (10)

REPLANNED

GMT Date 02/16 (047) | W | TDRSE | Z | DORB | ORB | MET Day 008 | STS ATT | MS2 WALHEIM | MS3 SCHLEGEL | MS4 LOVE | NOTES

16:00 17:00 18:00 19:00

5 141 6 142 7 143

20:00 21:00 22:00 23:00 00:00

BIAS - XLV - ZVV

POST EVA EMU RECONFIGURATION AND TRANSFER (EVA, AIRLOCK CONFIG) Ref. MSG 089

MEAL

OFF DUTY

EXERCISE

1.302 BIOLAB GLOVEBOX STOWAGE ITEMS INSTALLATION (ASSY PAYLOADS, BIOLAB) Steps 1-7, & 10

1.303 BIOLAB GLOVEBOX COMMISSIONING ITEMS INSTALLATION (ASSY PAYLOADS, BIOLAB) Steps 2-8

ESA PODF: BLB COMM: 1.321 BIOLAB GLOVEBOX CONTAINMENT TEST

ESA PODF: BLB COMM: 1.320 BLB STERILIZATION TEST

DRY SALIVA CLCT(ORB OPS,SDBI)

LBP-MUSCLE QSTION(ASSY PL, QSTION)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST EVA EMU RECONFIGURATION AND TRANSFER (EVA, AIRLOCK CONFIG) Ref. MSG 089

MEAL

OFF DUTY

DRY SALIVA CLCT(ORB OPS,SDBI)

EXERCISE

6

STS-122 FD (10)

REPLANNED

GMT Date 02/16 (047) | W | TDRSE | Z | DORB | ORB | MET Day 009 | STS ATI

CDR FRICK | PLT POINDEXTER | MS1 MELVIN | NOTES

20:00 21:00 22:00 23:00

00:00 01:00 02:00 03:00 04:00

DORB: 7, 8, 9, 10

ORB: 143, 144, 145, 146

STS ATI: BIAS -XLV -ZVV

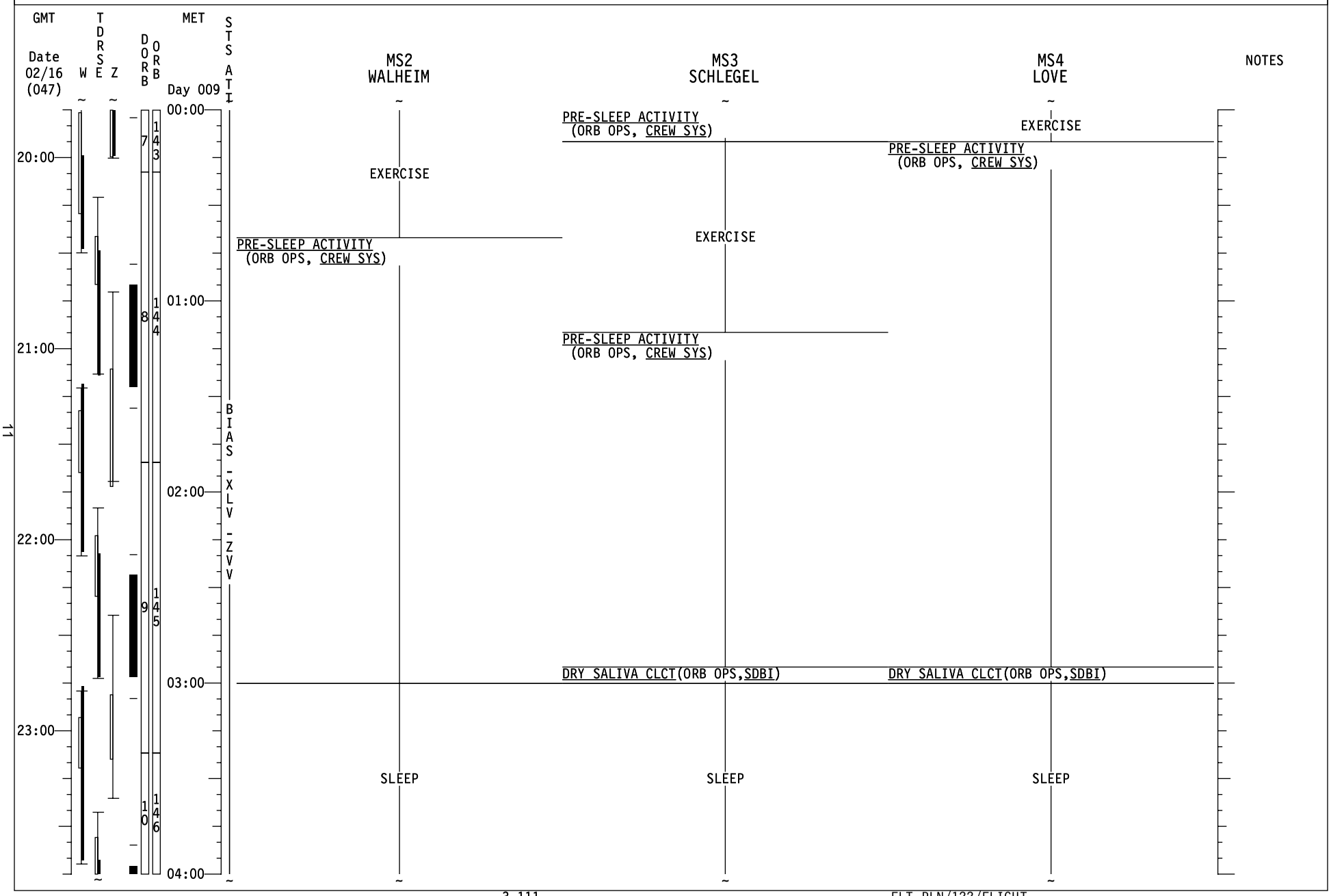
CDR FRICK:
- PRIVATE MEDICAL CONFERENCE Perform via A/G2
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SLEEP

PLT POINDEXTER:
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SLEEP

MS1 MELVIN:
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SLEEP

STS-122 FD (10)

REPLANNED



Good Morning Atlantis!!!!

Yesterday was a grand day for everybody! Congratulations for carrying out such a superb EVA!!!

We hope that today you will each have a little time to gaze out the window!!

Have a great day!

YOUR CURRENT ORBIT IS: 185 X 176 NM

NOTAMS:

EDW – LAKEBED RUNWAYS RED.
NOR – LAKEBED RUNWAYS GREEN.
HAW – RWY 31 CLOSED; RWY 13 TODA 8,994'.
WAK – NOT USABLE.
IKF – NOT USABLE.
DIW – TACAN OTS.
LAJ – TACAN CH 45 OTS.
NGU – TACAN CHANNEL CHANGED TO CH 22.
BEN – POLITICALLY NOT RECOMMENDED/NOT SUPPORTED.
ZZA – FIRST 600M (~2,000') OF RWY 30L NOT AVAILABLE. 10,200' REMAINING.
PTN – THLD RWY 14 DISPLACED 2K', AVAILABLE RWY LENGTH 7,677'.
JDG – DIEGO GARCIA: CLOSED FRI 1800Z - MON 0100Z.
NKT – AERODROME CLOSED 15 FEB 2200z TO 19 FEB 1200Z.

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 142 – 8/22:09 (SKC 240/3P4)
NOR35 ORB 157 – 9/20:57 (SCT100 SCT200 350/6P14)

OMS TANK FAIL CAPABILITY:

L OMS FAIL: NO R OMS FAIL: NO

LEAKING OMS PRPLT BURN:

L OMS LEAK: ALWAYS BURN RETROGRADE
R OMS LEAK: ALWAYS BURN RETROGRADE

OMS QUANTITIES(%)

L OMS OX = 35.0 R OMS OX = 35.4
FU = 35.3 FU = 35.2

SUBTRACT ICNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

OMS	321 FPS
ARCS (TOTAL ABOVE QTY1)	58 FPS
TOTAL IN THE AFT	379 FPS
ARCS (TOTAL ABOVE QTY2)	91 FPS
FRCS (ABOVE QTY 1)	0 FPS
AFT QTY 1	66 %
AFT QTY 2	28 %

SYSTEM	FAILURE	IMPACT	WORK AROUND
EPS	Fuel Cell 3 O2 Flowmeter Erratic.	Loss of insight into Fuel Cell 3 O2 flow on SM 69 FUEL CELLS. Associated FDA have been inhibited	None: MCC will monitor FC 3 health.

The MMT met to review mission progress and orbiter systems. Atlantis continues to perform quite well. The minor anomalies mentioned at today's MMT include SSOR #1 troubleshooting, galley water dispensing problem, Fuel Cell #3 O2 Flow erratic transducer, and overexposed AVIU. EVA #3 was in progress during the MMT. The MMT concluded with a short video of mission highlights to date.

Good morning Leland & Stan,

In yesterday's FD09 Transfer Message (MSG 076A), we gave you a plan to relocate CPAs and return ISS foam in mesh bags in the Ext A/L. We've added items 407.1 & 407.2 to reflect this CPA relocation.

Q&As:

1. **Item 701** (ESA OFK CTB)**:** Leo should remove his media kit from this CTB per message 16-1010 (Columbus D2/D3 Hardware Relocate). We have confirmed that the CTB and remaining contents should return per item 701.

2. **Bag E:** In order to stow CTB item 700, you may relocate foam from Bag E to the mesh bags in the Ext A/L. Leave the EMU gloves and lower arm in Bag E. If 700 still does not fit, you may relocate the ECOK mesh bag to the EXT A/L Floor Bag.

3. **Item 26.12** (Movie DVD): This launched in a ziplock with Christmas gifts. Please confirm Peggy received this as we haven't heard the item called-down complete.

The Transfer List Excel file, FD10_TransferList_STS122.xls, is located on the KFX machine in **C:\OCA-up\transfer**.

For ISS, the Transfer List Excel file, FD10_TransferList_STS122.xls, is located in **K:\OCA-up\transfer**.

FD10 Choreography

- Items 407, 407.1, 407.2: Relocate CPAs to food or clothing lockers
- Pack mesh bags with ISS foam (for return on the Ext A/L Floor):
    - Report part numbers of foam to MCC
    - Report approximate volume (in CTB equivalent or cubic feet)
        - If 1 CPA relocated, you may return up to 7 cubic feet
        - If 2 CPAs relocated, you may return up to 14 cubic feet
- Items 707 - 711: Return EMUs and EVA mesh bags to STS

Please update the Transfer List as follows:

In **RETURN** tab:
Replace page Return-1

Call us with any questions.

- The Transfer Team

AUTO REBOOST, CONFIG 3

NOTE
Allow 5 min between establishing reboost attitude and reboost start time for DAP accelerations to converge

1. Edit Reboost DAP and Select Reboost Configuration

   GNC 20 DAP CONFIG
   EDIT A11 - ITEM 3 + 11 EXEC
   CNTL ACC - ITEM 68 + 2 EXEC
   LOAD - ITEM 5 EXEC
   REBOOST CFG – ITEM 8 +3 EXEC
   INTVL – ITEM 9 +2 .0 0 EXEC

2. Set up Future Reboost

   GNC UNIV PTG
   DURATION – ITEM 27 + 0 0 + 3 6 + 0 0 . 0 0 EXEC
   START TIME – ITEM 1 + 0 0 8 + 1 6 + 3 1 + 3 0 EXEC
   RBST – ITEM 25 EXEC (FUT-*)

REBOOST/ DAP

3. Select appropriate Reboost Rotation DAP

   When in attitude and prior to START TIME,
   C3 DAP: A11/AUTO/VERN

   NOTE
   Reboost can be aborted with an item 26 on UNIV PTG or by selecting FREE on the DAP

4. Post Reboost Configuration

   Load DAP A12
   Return to FLIGHT PLAN Attitude

END OF PAGE 1 OF 1, MSG 086

Flight Day 10 – EVA 3 Tool Deconfig

1. Stow ret (Lg-sm from CMG, s/n 4064 (red ret)) in EVA Tools Transfer bag

2. Deconfigure COL Crewlock bag
   - ❑ Verify camera removed (charging)
   - ❑ Remove all tethers; stow in tether staging area
   - ❑ Stow Crewlock bag in airlock endcone

3. Deconfigure COL OIH Handrail bag
   - ❑ Remove all tethers; stow in tether staging area
   - ❑ Stow OIH bag (sn 1002) in EVA Tools Transfer bag

4. Remove WIF Adapter from EV3 MWS; stow in ISS Temp Stow bag or CTB 1075; report location
   - ❑ Take photos of hitch pin if bent or damaged

5. Deconfigure Airlock Contingency Tools Crewlock bag
   - ❑ Remove all tethers (including waist); stow in tether staging area
   - ❑ Remove RAD, 2" 7/16 socket, & socket caddy; stow in ISS Temp Stow bag
   - ❑ Remove EVA Ratchet; stow in Crewlock bag #4 or ISS Temp Stow bag; report location
   - ❑ Remove Vise grips; stow in ISS Temp Stow bag
   - ❑ Remove long duration tie down tethers; stow in tether staging area
   - ❑ Remove T-handle tools; stow in ISS Temp Stow bag
   - ❑ Remove Loop Pin Puller; stow in ISS Temp Stow bag
   - ❑ Stow Crewlock bag in endcone

6. SARJ Crewlock bag
   - ❑ Remove all tethers; stow in tether staging area
   - ❑ Stow Crewlock bag in Crewlock Endcone

7. Stow Digital Camera w/ flash and mount in EVA Camera Accessories bag in A/L1D2_behind closeout

8. Swatch Test Tool:
   - ❑ Remove socket; stow in ISS Temp Stow bag or CTB 1161, report location
   - ❑ Remove overglove; stow in ziplock, label ziplock “Swatch Tool Overglove”
   - ❑ Place ziplock in EVA Tools Transfer bag

9. Single overglove used for swatch test:
   - ❑ Stow in ziplock
   - ❑ Label ziplock “Swatch Test - Hand Overglove”
   - ❑ Place ziplock in EVA Tools Transfer bag.

10. Remove PGTs from MWS; remove sockets; remove batteries. Stow PGTs and sockets in CTB 1161 PGT H/W. Return batteries to PGT Battery Mesh Bag, A/L1O1.

11. Stow following tethers in EVA Tools Transfer Bag:

Item Description	Qty.	Part No.	Serial No.
Adjustable Equipment tether (eq-eq w/slide lock)	□ 4	SEG33106945-307	1082 1083 1084 1085
85-ft Safety Tether	□ 2	SED33116109-307	1009 1010

12. Stow the following tethers on the Shuttle Return EMUs (1 Adj and 1 Ret each):

Item Description	Qty.	Part No.	Serial No.
Adjustable Equipment tether (eq-eq w/slide lock)	□ 2	SEG33106945-307	1080 1081
Retractable Equipment Tether	□ 2	SEG33106164-381	4057 4070

13. Remove all other tethers, including D-ring extenders, and stow in ISS airlock tether staging area

14. Remove small trash bags; stow in A/L1O0 behind closeout in CTB 1075 or in ISS Temp Stow bag, report location

15. Remove Velcro/Tape caddy from airlock Staging bag (verify s/n 1007); place in EVA Tools Transfer bag

16. MMOD panel adjustable tethers (S/N 1012, 1039 and 1040):
    - ❑ Place in ziplock bag(s); label ziplock(s) “MMOD Adjustable Tethers”
    - ❑ Place ziplock(s) in EVA Tools Transfer Bag

17. If time allows, restow following ISS Temp Stow bag hardware as indicated, when compete notify MCC of status:

ISS Temp Stow bag: Item and Quantity	Nominal ISS Stowage
2 T-handle Tools (short)	Crewlock bag #4
1 T-handle Tool (long)	Crewlock bag #4
1 Scraper	A/L 1O1 M-02 bag, CTB 1038
3 Ballstacks	A/L 1O0 behind closeout, CTB 1013
52 Wire Ties	A/L 1O0 behind closeout
Wire Tie Caddy	CTB 1075
2 7.8-ext 5/8 rigid sockets	CTB 1161
3 Socket Caddies	CTB 1161
3 MUT EE	A/L 1O0 behind closeout, CTB 1013
Uninstalled COL WIFs	NOD2P5-G1, CTB 1191
Uninstalled COL HRs	Short NOD2P5-G1, 1191/ Long NOD2P5-K1
2-ext 7/16 rigid socket	CTB 1161
RAD	CTB 1161
EVA Ratchet	Crewlock bag #4
Vise Grips	A/L 1O1_B1 (or keep in A/L endcone?)
WIF Adapter	CTB 1075
2 ISS small trash bags	A/L 1O0 behind closeout, CTB 1075
2 BRT	A/L 1O0 behind closeout, CTB 1075
12-ext 7/16 socket	CTB 1161
Mounting strip assembly – no PLA (4)	FGB_102 Overlay CTB 1066
Long duration tie down tethers	Tether staging area
7/16 Box End Wrench	A/L 1O1 M-02 Bag
CBM Seal Covers	COL1A1 behind soft cover
Loop Pin Puller	A/L1O1, M-02 bag, CTB 1038, in caddy
9-ext 7/16 socket	CTB 1161

16-1059 (MSG 089) - Post EVA EMU Reconfiguration and Transfer

Perform POST EVA EMU RECONFIGURATION AND TRANSFER (EVA, AIRLOCK CONFIG), 2-13 - with the indicated deltas:

A. In step 1, also remove Metox Canister and install Vent Port Plugs from EMU Equipment Bag.
   Remove REBA and helmet light batteries; stow all in M-02 bag s/n 1038 (EVA Prep and Ops).
   Leave the EMU battery installed.
B. Perform steps 5-8, 10-11 for EMU 3017 (Wh), previously completed for EMU 3015 (Lv).
C. In step 28, retrieve loose stowed Hans Return LTA (identified by Sharpie, "007", on the waist brief bladder) from NOD1.
   This LTA is not stowed on EMU 3008.
D. In step 29, stow Hans LTA (flown up on shuttle) from EMU 3015 in NOD1 with cover installed.
E. In steps 41-44, substitute EMU 3006 for EMU 3008.
F. In Table 3, Page 2-16 under “EMU SYSTEMS TRANSFER BAGS A & B”, please add the following pen and ink change:
   - Remove CCA s/n 1178 from Lv ECOK; stow in ISS EMU Equipment Bag
G. In Table 3, Page 2-16 under “EVA TOOLS TRANSFER BAG(s)”, please add the following pen and ink changes:
   - Adjustable tethers (3), from MMOD shields (s/n 1012, 1039, 1040), in ziplock bag(s)
   - Overgloves (1 pr), from swatch test, in ziplock bags (2)
H. If time permits, continue with Step 47 EVA UNPACK AND STOW. You have time scheduled the next day to complete.
I. In Table 6, Page 2-18, Add the following items to the table:

Current Location	Item	Final Stowage Location	Status
EVA Tools Transfer Bag	Adjustable tethers (3) from MMOD shields (s/n 1012, 1039, 1040), in ziplock bag(s)	5 MLE Bag C	
EVA Tools Transfer Bag	Overgloves (1 pr) from swatch test, in ziplock bags (2)	5 MLE Bag C	