STS-122 / 1E

FD 13 Execute Package

MSG	Page(s)	Title
107	1 - 15	FD13 Flight Plan Revision **(pdf)**
108	16 - 17	FD13 Mission Summary **(pdf)**
109A	---	FD13 PAO Event Summary **(pdf - Electronic Only)**
110	18 - 19	Entry Day Fluid Loading and Anti-G Suit Operations **(pdf)**
111B	20 - 23	Setup for Radiator Flex Hose Retract Imagery **(pdf)**
112	24	FD12 MMT Summary **(pdf)**
113	---	Sunday Funnies **(pdf - Electronic Only)**

Approved by FAO: *Jennifer Clevenger*

Last Updated: Feb 19 2008 4:17AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX

MSG NO.	TITLE
107	FD13 Flight Plan Revision
108	FD13 Mission Summary
109	FD13 PAO Event Summary
110	Entry Day Fluid Loading and Anti-G Suit Operations
111	Setup for Radiator Flex Hose Retract Imagery
112	FD12 MMT Summary
113	Sunday Funnies

1. CWC OVERBOARD DUMP & STOWAGE

For today's CWC dump, dump Shuttle Condensate CWC S/N 5101 using CWC OVERBOARD DUMP (ORB OPS, ECLS) p. 5-32. MCC will TMBU all limits.

Waste nozzle open time will be ~50 minutes. When the CWC dump is complete, please proceed to the Waste Water dump.

The two CWCs used for Shuttle Condensate (S/N 5101 and S/N 5060, which was dumped FD8) should both be empty upon completion of today's dump. One can be stowed in the Windowshade bag and the other can be stowed in MF71M.

2. WASTE WATER DUMP

After completing the CWC dump, perform a Waste Water dump using SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) p. 5-2. MCC will TMBU all limits.

Dump the waste tank to 5%. Waste nozzle open time will be ~20 minutes.

3. PCS RECONFIGURATION

To gain more data on the erratic N2 System 2 Flow transducer, the Pressure Control System (PCS) will be switched to operate on PCS System 2. The N2 flow hardware and software FDA will remain inhibited to preclude any nuisance alarms. The N2 Crossover valve will remain open, so if a cabin leak occurs, you will receive a 'S66 CAB N2 FLO 1' message and Master Alarm.

Perform PCS 1(2) CONFIG (ORB OPS, ECLS) p.5-19. Configure to PCS System 2, with the following delta:

MO10W √N2 XOVER vlv - OP

With the cabin at 14.7 psia, the lower limits of the following parameters should be raised to the nominal values:

R13U	PARAMETER	C/W CH	LOWER LIMIT
	CABIN PRESS	4	3.45V/13.74 psia
	PPO2A	34	2.70V/ 2.70 psia
	PPO2B	44	2.70V/ 2.70 psia

Notify MCC when H/W C&W limits have been updated. MCC will TMBU associated S/W limits.

4. Per today's EZ Activity callout, water for fluid loading should be pulled today. Pulling water for fluid loading on EOM-1 will help to maximize supply water quantities for deorbit.

5. Prior to KU Stow this afternoon, we will downlink your Outlook Personal Folders so that you may have them when you return to Houston. Please move any messages that you would like to keep out of your INBOX, SENT ITEMS and WORK RELATED folders and into your Personal Folder before **MET 11/20:00**. We will also perform one final mail sync at the same time to deliver any last minute messages you want to send. We will not lock you out of your e-mail during this time so that you can still read it after KU stow.

6. REPLACE PAGES 2-44, 2-46, 2-47, AND 3-138 THROUGH 3-147.

FD12 02/18/08 22:06:10 **REPLANNED**

GMT 02/18/08 (049) 20 21 22 23 02/19 01 02 03 04 05 06 07

MET Day 011 011/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-122	CDR FRICK	PMC, PRE SLEEP	SLEEP		POST SLEEP
	PLT POINDEXTER	PRE SLEEP	SLEEP		POST SLEEP
	MS1 MELVIN	PRE SLEEP	SLEEP	LOG	POST SLEEP
	MS2/EV1 WALHEIM	PRE SLEEP	SLEEP	LOG	POST SLEEP
	MS3/EV2 SCHLEGEL	PRE SLEEP	SLEEP	LOG, SLVA, DRY, POST, SLEEP	DRY, POST SLEEP
	MS4/EV3 LOVE	PRE SLEEP	SLEEP	LOG, SLVA, DRY, POST, SLEEP	DRY, POST SLEEP
DN	FE-2 TANI	PRE SLEEP	SLEEP		POST SLEEP
ISS	ISS CDR WHITSON	PRE SLEEP	SLEEP		
	FE-1 MALENCHENKO	PRE SLEEP	SLEEP		
UP	FE-2 EXP16 EYHARTS	PRE SLEEP	SLEEP		

DAY/NIGHT

ORBIT 175 176 177 178 179 180 181 182 183

TDRS W -171.0 E -46.0 Z -275.0

ORB ATT -ZLV -XVV

NOTES *√ HUM SEP

FD13 02/18/08 22:06:10 **REPLANNED**

GMT 02/19/08 (050) 08 09 10 11 12 13 14 15 16 17 18 19 012/00

MET Day 011 12 13 14 15 16 17 18 19 20 21 22 23

STS-122

| | | |

FD13 02/18/08 22:06:10 REPLANNED

GMT 02/19/08 (050) 20 21 22 23 02/20 01 02 03 04 05 06 07

MET Day 012 012/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-122					
CDR FRICK	PRE SLEEP	MNVR	SLEEP	POST SLEEP	MADS*
PLT POINDEXTER	PRE SLEEP		SLEEP	POST SLEEP	
MS1 MELVIN	PRE SLEEP		SLEEP	LOG	POST SLEEP
MS2 WALHEIM	PRE SLEEP		SLEEP	LOG	POST SLEEP
MS3 SCHLEGEL	PRE SLEEP	DRY	SLEEP	LOG	POST SLEEP
MS4 LOVE	PRE SLEEP	DRY	SLEEP	LOG	POST SLEEP
FE-2 EXP15 TANI	PRE SLEEP		SLEEP	SLVA DRY	POST SLEEP

DAY/NIGHT

ORBIT 191 192 193 194 195 196 197 198

TDRS W -171.0 E -46.0 Z -275.0

ORB ATT -ZLV -XVV -ZLV +YVV

GND DFR DFR MLA DFR WSS DFR MLA DFR WSS DFR WSS

NOTES

*ENABLE

5

STS-122 FD (13)

REPLANNED

GMT Date 02/19 (050) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATT

CDR FRICK | PLT POINDEXTER | MS1 MELVIN | NOTES

04:00 — 05:00 — 06:00 — 07:00 — 08:00 — 09:00 — 10:00 — 11:00 — 12:00

DORB: 13, 14, 15, 1

ORB: 180, 181, 182, 183

STS ATT: -ZLV, -XVV

SLEEP (CDR FRICK)

SLEEP (PLT POINDEXTER)

SLEEP (MS1 MELVIN)

FD13 EZ ACTIVITIES:
- OCAC FILTER INSPECTION
- HARD REBOOT ALL PGSCs
- FLUID LOADING PREP
  - Fill drink containers per MSG 110
- ML86B:C cb MNB EXT ARLK HTR VEST Z1/2/3-op

FD13 CABIN STOW ACTIVITIES:
- Remove loose items stored in A/L
- Perform SEAT INSTALLATION
- Perform FLIGHTS WITH RETENTION NET (REF DATA, ENTRY STOW)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

FLIGHT SLEEP LOG (ORB OPS, SDBI)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

STS-122 FD (13)

REPLANNED

GMT Date 02/19 (050) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATT | MS2 WALHEIM | MS3 SCHLEGEL | MS4 LOVE | FE-2 (DN) TANI | NOTES

04:00 | 05:00 | 06:00 | 07:00

13 | 180 | 14 | 181 | 15 | 182 | 1 | 183

08:00 | 09:00 | 10:00 | 11:00 | 12:00

-ZLV-XVV

MS2 WALHEIM	MS3 SCHLEGEL	MS4 LOVE	FE-2 (DN) TANI
SLEEP	SLEEP	SLEEP	SLEEP
FLIGHT SLEEP LOG (ORB OPS, SDBI)	FLIGHT SLEEP LOG (ORB OPS, SDBI)	FLIGHT SLEEP LOG (ORB OPS, SDBI)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	LIQUID SLVA SAMPLE(ORB OPS,SDBI)	LIQUID SLVA SAMPLE(ORB OPS,SDBI)	
	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)	
	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)	

STS-122 FD (13)

REPLANNED

GMT Date 02/19 (050) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATT

08:00 | 09:00 | 10:00 | 11:00

1 | 183 | 2 | 184 | 3 | 185

12:00 | 13:00 | 14:00 | 15:00 | 16:00

-ZLV -XVV

CDR FRICK

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CABIN CONFIG/STOW

EXERCISE

FCS CHECKOUT
(ORB OPS, GNC)
Remain DAP: A6/ALT

RCS HOT FIRE TEST
(ORB OPS, RCS)
Remain DAP: PRI

DAP: A6/AUTO/ALT
I'CNCT RETURN (OPS 2,3) (OPCL,RCS)

PLT POINDEXTER

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

W/B STEAM VENT HTR ACT
R2 √BLR CNTLR/HTR(three) -B
PWR (three) -ON
L10(VTR): ON/STBY - ON (LED GREEN)
L10(VIP): PWR - ON (LED ON)
L10(MUX): MUX/VTR/CC PWR - ON (LED ON)
R12(VPU): PWR - ON (LED ON)

CABIN CONFIG/STOW

GPS PWRUP (ORB OPS, GNC)

FCS CHECKOUT
(ORB OPS, GNC)
Remain DAP: A6/ALT

RCS HOT FIRE TEST
(ORB OPS, RCS)
Remain DAP: PRI

MS1 MELVIN

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT
(ORB OPS, SDBI)
Perform SETUP FOR BLOOD SAMPLE CLCT

SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT
(ORB OPS, SDBI)
Perform BLOOD SAMPLE COLLECTION (OPR)

SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT
(ORB OPS, SDBI)
Perform BLOOD SAMPLE COLLECTION (OPR)

SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT
(ORB OPS, SDBI)
Perform BLOOD SAMPLE COLLECTION (OPR)

SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT
(ORB OPS, SDBI)Perform STOW HARDWARE

ENTRY VIDEO SETUP
(PHOTO/TV, MINI-CAM)

CABIN CONFIG/STOW

NOTES

TFL 161

TFL 188

8

STS-122 FD (13)

REPLANNED

GMT Date 02/19 (050) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATT

08:00 | 09:00 | 10:00 | 11:00

12:00 | 13:00 | 14:00 | 15:00 | 16:00

1 | 183 | 2 | 184 | 3 | 185

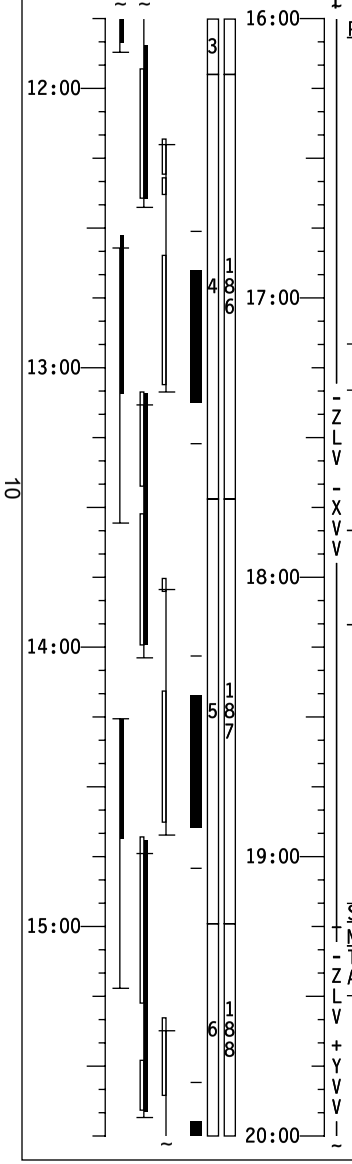
-ZLV -XVV

MS2 WALHEIM	MS3 SCHLEGEL	MS4 LOVE	FE-2 (DN) TANI	NOTES
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
CABIN CONFIG/STOW	SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (SUBJ)	FILTER CLEANING (IFM,SCHEDULED MAINTENANCE)	CABIN CONFIG/STOW	
	CABIN CONFIG/STOW	SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (SUBJ)	SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (SUBJ)	
FCS CHECKOUT (ORB OPS, GNC) Remain DAP: A6/ALT			CABIN CONFIG/STOW	
	EXERCISE	CABIN CONFIG/STOW		
RCS HOT FIRE TEST (ORB OPS, RCS) Remain DAP: PRI	CABIN CONFIG/STOW	EXERCISE	EXERCISE	

STS-122 FD (13)

REPLANNED

GMT Date 02/19 (050) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATT



CDR FRICK	PLT POINDEXTER	MS1 MELVIN	NOTES
PILOT WITH RHC (ORB OPS, PGSC)	PILOT WITH RHC (ORB OPS, PGSC)	EXERCISE	
	PCS RECONFIG (ORB OPS, ECLS) Ref. MSG 107, Item 3	ANALOG PAO CC (PHOTO/TV, SONY PD100)	
DEORBIT BRIEFING	DEORBIT BRIEFING	DEORBIT BRIEFING	
PUBLIC AFFAIRS EVENT KU AVAIL TDRE: 17:47-18:14 Ref. MSG 109	PUBLIC AFFAIRS EVENT KU AVAIL TDRE: 17:47-18:14 Ref. MSG 109	PUBLIC AFFAIRS EVENT KU AVAIL TDRE: 17:47-18:14 Ref. MSG 109	
MEAL	MEAL	MEAL	
SUPPLY H2O DUMP USING FES(ORB OPS,ECLS)Step 1 using FES Pri A MNVR (TRK) -ZLV +YVV (Water Dump) TG=2 BV=3 OM=270 A6/AUTO/ALT Init TRK	CABIN CONFIG/STOW	LANDING-1 COMM C/O (ORB OPS, COMM/INST) MLA AOS: 19:21 LOS: 19:27	
CABIN CONFIG/STOW	CWC OVERBOARD DUMP (ORB OPS, ECLS) Ref. MSG 107, Item 1	CABIN CONFIG/STOW	

STS-122 FD (13)

REPLANNED

GMT Date 02/19 (050) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATT | MS2 WALHEIM | MS3 SCHLEGEL | MS4 LOVE | FE-2 (DN) TANI | NOTES

Time	MS2 WALHEIM	MS3 SCHLEGEL	MS4 LOVE	FE-2 (DN) TANI
16:00	PILOT WITH RHC (ORB OPS, PGSC)			
12:00			EXERCISE	
		CABIN CONFIG/STOW		CABIN CONFIG/STOW
			CABIN CONFIG/STOW	
17:00				
13:00		DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	
	DEORBIT BRIEFING	DEORBIT BRIEFING	DEORBIT BRIEFING	DEORBIT BRIEFING
18:00	PUBLIC AFFAIRS EVENT KU AVAIL TDRE: 17:47-18:14 Ref. MSG 109	PUBLIC AFFAIRS EVENT KU AVAIL TDRE: 17:47-18:14 Ref. MSG 109	PUBLIC AFFAIRS EVENT KU AVAIL TDRE: 17:47-18:14 Ref. MSG 109	PUBLIC AFFAIRS EVENT KU AVAIL TDRE: 17:47-18:14 Ref. MSG 109
14:00	MEAL	MEAL	MEAL	MEAL
19:00				
15:00	CABIN CONFIG/STOW			
	EXERCISE	CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW
20:00				

Stations: 3, 4, 5, 6; 186, 187, 188

STS-122 FD (13)

REPLANNED

GMT Date 02/19 (050) | W E Z | DORB 6 7 8 9 | ORB 188 189 190 | MET Day 011 | STS ATT -ZLV +YVV -ZLV -XVV

CDR FRICK

20:00 — CABIN CONFIG/STOW

IMU ALIGN - S TRK (ORB OPS, GNC)
SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS)
Initiate Waste Dump
Ref. MSG 107, Item 2

21:00 — SUPPLY/WASTE WATER DUMP
(ORB OPS, ECLS)
Terminate Waste Dump

MNVR (TRK) -ZLV -XVV
TG=2 BV=3 OM=0
A6/AUTO/ALT Init TRK

FUTURE LOADED MNVR (-ZLV +YVV)
TG=2 BV=3 OM=270
A6/AUTO/ALT (12/01:55) Init TRK
Temp edit A6 with 10 deg Att DB:
GNC 20 DAP CONFIG ITEM 11+10 EXEC

22:00 — SUPPLY WATER DUMP USING FES (ORB OPS, ECLS)
On MCC GO: Step 2, FES Pri A Req'd
C3 MASTER MADS POWER - ON
A6L MADS STRAIN GAUGE - ON

CABIN CONFIG/STOW

23:00 — PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRIVATE MEDICAL CONFERENCE
Perform via A/G2

00:00

PLT POINDEXTER

CWC OVERBOARD DUMP
(ORB OPS, ECLS)
Ref. MSG 107, Item 1

EXERCISE

CABIN CONFIG/STOW

ENTRY COOLING CONFIG [A]
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

[A] R12 √VPU PWR - OFF(LED-off)
Minimize use of P/TV Equipment
Dim cabin lighting to 25%

MS1 MELVIN

CABIN CONFIG/STOW
COMM STRING 1 C/O (PART B)
(ORB OPS, COMM/INST)
SSV DEACTIVATION
(PHOTO/TV, SSV)

CABIN CONFIG/STOW

LANDING-1 COMM C/O
(ORB OPS, COMM/INST)
DFR AOS: 22:26 LOS: 22:32

CABIN CONFIG/STOW

KU-BD ANT STOW
(ORB OPS, COMM/INST)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NOTES

UPDATE H2O WASTE DUMP QTY

STS-122 FD (13)

REPLANNED

GMT Date 02/19 (050) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATT | MS2 WALHEIM | MS3 SCHLEGEL | MS4 LOVE | FE-2 (DN) TANI | NOTES

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

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

DORB: 6, 7, 8, 9

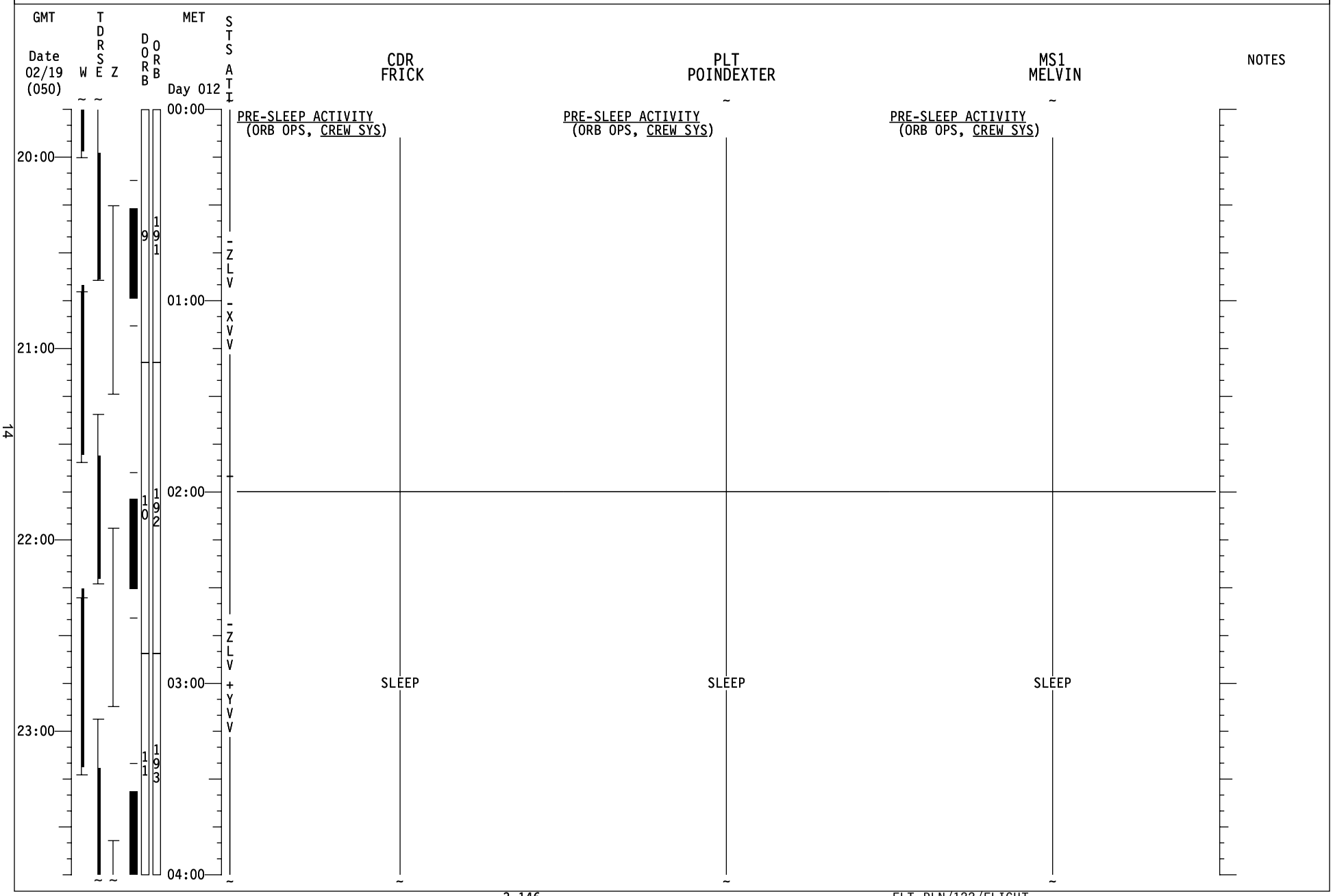
ORB: 188, 189, 190

STS ATT: -ZLV, +YVV, -ZLV, -XVV

MS2 WALHEIM	MS3 SCHLEGEL	MS4 LOVE	FE-2 (DN) TANI
EXERCISE	CABIN CONFIG/STOW	CABIN CONFIG/STOW	EXERCISE
SSP1 OIU PWR - OFF (tb-bp) Expect S62 BCE BYP PSP 1			
CABIN CONFIG/STOW	DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	CABIN CONFIG/STOW
	CABIN CONFIG/STOW	CABIN CONFIG/STOW	
LAUNCH ENTRY SUIT CHECK Verify Fit	CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) Perform RECONFIG/STOW	CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) Perform RECONFIG/STOW	LAUNCH ENTRY SUIT CHECK Verify Fit
RECUMBENT SEAT KIT (RSK) INSTALLATION (ORB OPS, CUE CARD)	LBP-MUSCLE QSTION(ASSY PL, QSTION) KU-BD ANT STOW (ORB OPS, COMM/INST)	PGSC DEACT (ORB OPS, PGSC) Stow all STS PGSCs except Worldmap	RECUMBENT SEAT KIT (RSK) INSTALLATION (ORB OPS, CUE CARD)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

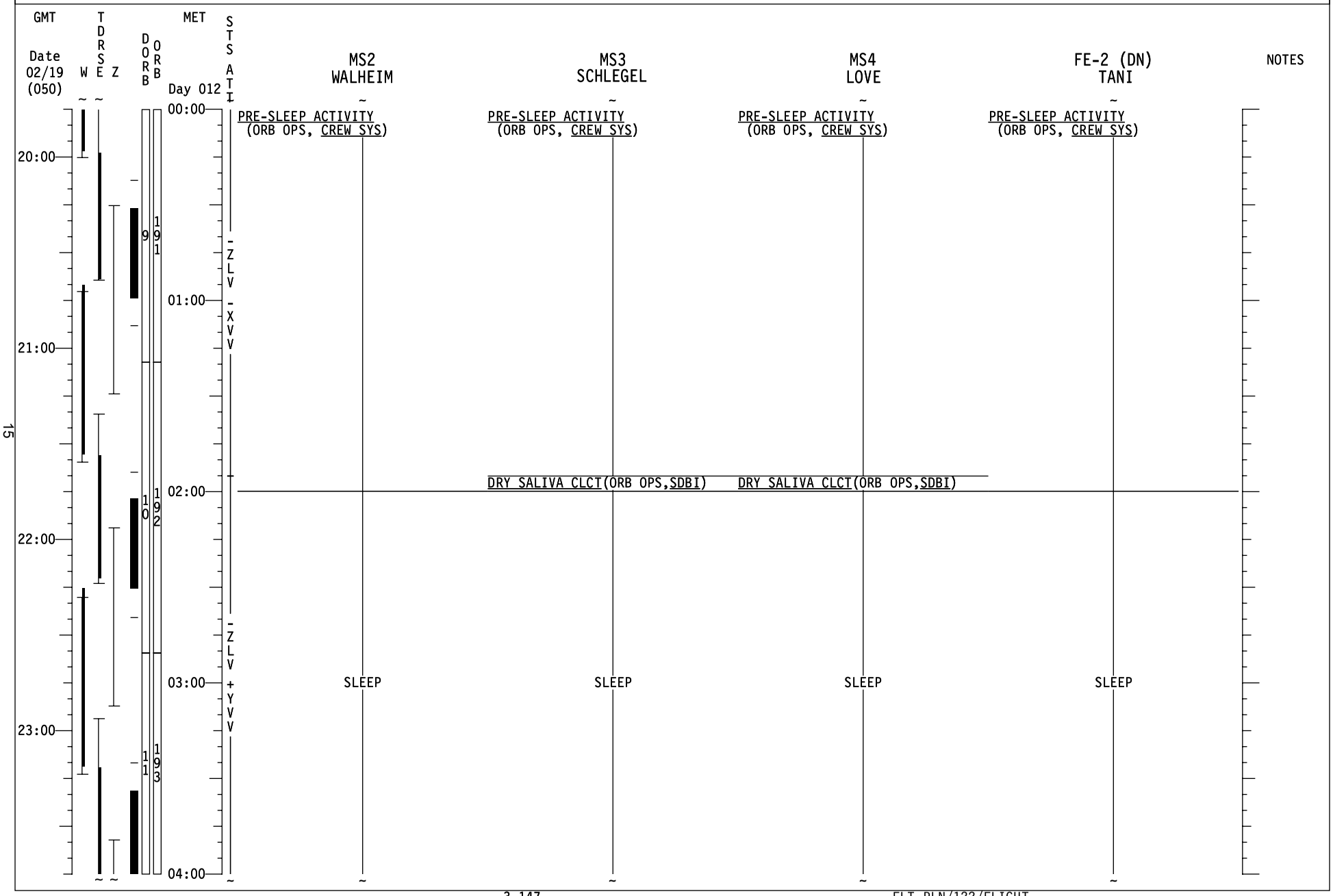
STS-122 FD (13)

REPLANNED



STS-122 FD (13)

REPLANNED



Good Morning Atlantis!!!!

It's been a fun couple of weeks, but now it is time to pack up and get ready to come on home!

YOUR CURRENT ORBIT IS: 188 X 175 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'.
YHZ – RWY 23 THLD DISPLACED 1,200'. 7,600' REMAINING. 19 FEB, 1300Z - 2100Z.
YHZ – RWY 14/32 CLSD 19 FEB 1300Z - 2100Z.

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 188 – 11/20:03 (SCT100 BKN200 240/9P14)
EDW22 ORB 204 – 10/21:17 (SCT100 SCT250 260/9P17)

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	309 FPS
ARCS (TOTAL ABOVE QTY1)	46 FPS
TOTAL IN THE AFT	355 FPS
ARCS (TOTAL ABOVE QTY2)	79 FPS
FRCS (ABOVE QTY 1)	0 FPS
AFT QTY 1	66 %
AFT QTY 2	28 %

SYSTEM	FAILURE	IMPACT	WORK AROUND
EPS	Mid Port Payload Bay Floodlight is not working properly.	Mid Port Payload Bay Floodlight is unavailable.	Mark Switch: A7U PL BAY FLOOD MID PORT to preclude turning ON. Other Payload Floodlights still available for use.
PDRS	Port MPM Aft Sys 1 and 2 STO msw's not achieved after MPM Stow	Port MPM tb is bp	None. Port MPM is fully stowed. One or both Aft STO msw's may appear later in flight. This same condition seen in Fwd MPMs on last flight of OV-104.
RCS	Aft Vernier Heater Circuit Fail Off	Loss of VRCS control. Vernier jets cannot be maintained above the operational injector temp limit.	Use PRCS Tail Only for attitude control

END OF PAGE 2 OF 2, MSG 108

Per today's EZ Activity callout, water for fluid loading should be pulled today. Pulling water for fluid loading on EOM-1 will help to maximize supply water quantities for deorbit.

Fluid Loading:

The following is the prescription for fluid loading on entry day:

Initiate fluid loading at 1 hour before TIG. Consume 8 ounces of water or artificially sweetened (A/S) drink with two salt tablets, or 8 ounces of Chicken Consommé every 15 minutes. Fluid loading must be completed by Entry Interface (EI).

CREWMEMBER	FLUID	TOTAL # OF SALT TABLETS
CDR (Frick)	40 oz - Water	10
PLT (Poindexter)	24 oz - Water 24 oz – Lemonade w/ A/S	12
MS1 (Melvin)	48 oz – Orange Ade	0
MS2 (Walheim)	16 oz – Cherry Ade w/ A/S 16 oz – Tropical Punch w/ A/S 8 oz – Grape Drink w/ A/S	10
MS3 (Schlegel)	40 oz - Chicken Consommé	0
MS4 (Love)	40 oz – Cherry Drink w/ A/S	10
MS5 (Tani)	40 oz – Lemonade w/ A/S	10

Note: Chicken Consommé is only available in 12 oz. Servings. Prepackaged volume may exceed prescribed quantity.

If there is a one orbit wave-off and fluid loading was completed on the previous deorbit attempt, then the following prescription should be completed by EI:

CREWMEMBER	FLUID	TOTAL # OF SALT TABLETS
CDR (Frick)	24 oz - Water	6
PLT (Poindexter)	16 oz - Water 8 oz – Lemonade w/ A/S	6
MS1 (Melvin)	24 oz – Orange Ade	0
MS2 (Walheim)	8 oz – Cherry Ade w/ A/S 8 oz – Tropical Punch w/ A/S 8 oz – Grape Drink w/ A/S	6
MS3 (Schlegel)	20 oz - Chicken Consommé	0
MS4 (Love)	24 oz – Cherry Drink w/ A/S	6
MS5 (Tani)	24 oz – Lemonade w/ A/S	6

If there is a greater than one orbit wave-off or a partial fluid load was performed on the previous deorbit attempt then the entire protocol above should be repeated.

Anti-G Suit Operations:

Anti-G suits must be inflated to 0.5 psi (one click) at or near entry interface and to at least 1.0 psi (two clicks) at one G.

Dosimeter Reminder:

Ensure that all dosimeters are stowed in your ACES suits.

As you know, the starboard aft radiator retract flex hose had an omega shaped bend, which is an indication of hose buckling. The cause of the buckling is unknown. It is expected that any subsequent door closure on-orbit will result in the buckling condition.

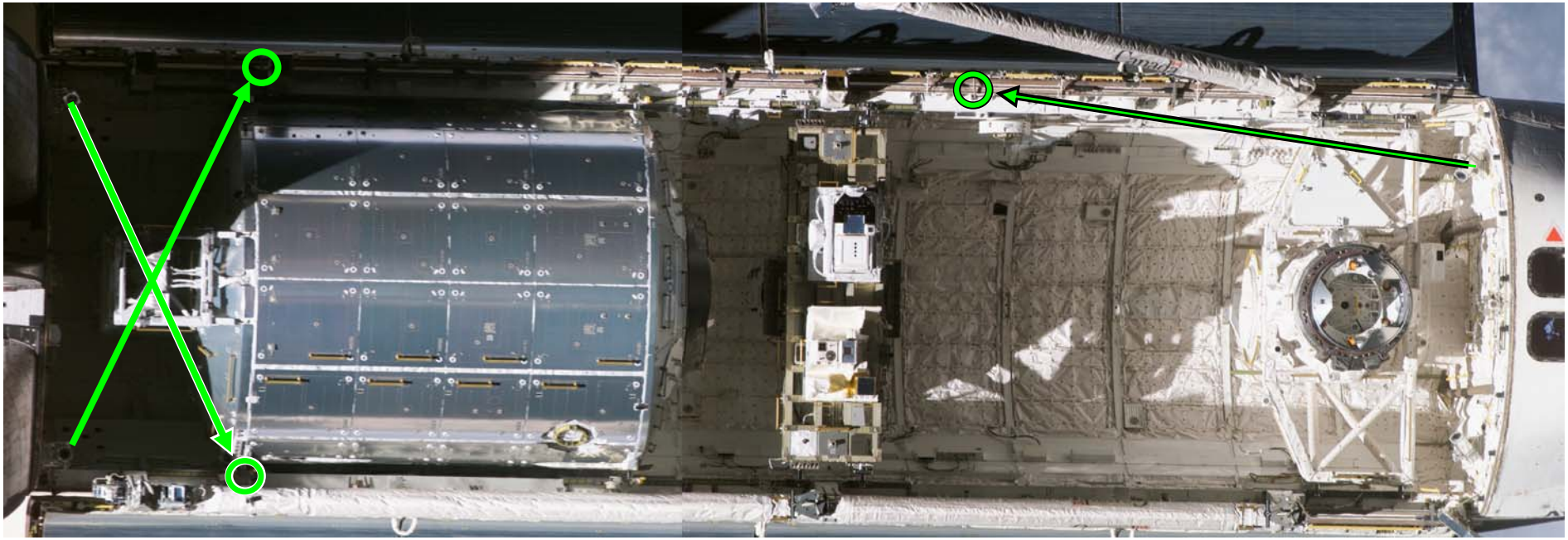
There is a request by the Engineering Community to obtain video of the hoses during Payload Bay closing. Video of the starboard forward flexhose is not possible due to blockage by the Ku Antenna, but video of the other three hoses is available.

The current plan is that INCO will configure the Payload Bay cameras on FD13 prior to Ku stow to show various Radiator Retract Flex Hose locations (see reference picture). On deorbit day, you will need to perform Steps 2 through 5 to record the images.

In the event of a wave-off, you will need to work MSG 111 in its entirety, since Block 10 of Deorbit Prep deactivates the Photo/TV system.

If you already have plans to use the payload bay cameras for other tasks during PLBD closure, please talk to MCC about options for camera use.

Additionally, please verbally report the final condition of the hoses sometime after door closure activities are complete.



END OF PAGE 2 OF 4, MSG 111B

1. Configure PLB Cameras (Deorbit Wave-off through EOM+1):

A7 Perform ACTIVATION, OPERATION (Cue Card, TV) to activate cameras A, B, C in ALC-AVG and configure as follows:

VID OUT MON 1 pb - push
IN A pb - push
PAN/TILT, ZOOM, FOCUS as reqd to center the PORT FWD rad retract hose in the FOV

VID IN C pb - push
PAN/TILT, ZOOM, FOCUS as reqd to center the PORT AFT rad retract hose in the FOV

*** VID OUT MON 2 pb -push
*** IN MUX 1 pb - push
OUT MUX 1 L pb - push
IN A pb - push
OUT MUX 1 R pb - push
IN C pb - push

MON 2 Verify both rad retract hoses are centered in each MUX half views; adjust accordingly

A7 *** VID OUT MON 1 pb - push
*** IN B pb - push
PAN/TILT, ZOOM, FOCUS as reqd to center the STBD AFT rad retract hose in the FOV

2. Power up and verify

Note: If wave-off occurred, do not perform the first two actions of step 2.

A7 Perform ACTIVATION, OPERATION (Cue Card, TV) to activate cameras A, B, C in ALC-AVG

Perform 4 (***) Steps in step 1 and verify views.

R1 √PL AUX - ON

MA73C √cb AC2 PL 3Φ - cl

L10 Connect cable from “VIP OUT” to “VTR IN”

(MUX) VTR/CC PWR - on (LED on)

(VIP) √ATU - REC
√CCTV VIDEO IN - J3
PWR - on (LED on, DATA FLOW flashes twice)

(VTR) √ON/STANDBY LED - green
√Switches set to white dot (seven)
Insert new tape (tape icon LED on)

A7 VID OUT DTV pb - push
IN MUX 1 pb - push

3. Just Prior to PLBD Closure:

L10 (VTR) REC pb - push, hold
PLAY pb – push
√Red dot displayed on LCD

4. At completion of PORT PLBD Closure:

A7 VID IN B pb - push

5. At completion of PLBD Closure:

L10 (VTR) STOP pb - push
Eject tape, mark as PLBD Closure, stow in RTH bag (L10A1 foam)

The MMT met to discuss the current mission status and to review the entry plan including a preliminary look at the weather forecasts. All orbiter systems are nominal and the team is looking forward to FCS checkout and RCS hotfire tomorrow. Additionally, your tremendous work in continuing with space station assembly is greatly appreciated by both the Shuttle and ISS Programs. The fly around gave all of us a great view of the ISS with its new Columbus Module.

Entry Plan: Entry Flight Director/Bryan Lunney briefed the entry plan at today's MMT. The plan for EOM will be to land at either KSC or EDW and the forecast looks promising for both. If the weather does not cooperate then on EOM+1 all three CONUS sites will be called up and the intent will be to land in order to preserve EOM+2 as a systems wave-off day. As always the Entry Team will keep you apprised of the weather and any forecast changes.

STS-122

ISSUED: Monday Feb. 18, 2008 1400Z
Monday Feb. 18, 2008 0800CST

KSC	Valid: Wednesday Feb 20 1407 UTC		
	Valid: Wednesday Feb 20 0807 CST		
	SCT030 SCT300	7 SM	03006P09 KT
			RWY 15/33 X=7 H/T=5
KSC	Valid: Wednesday Feb 20 1542 UTC		
	Valid: Wednesday Feb 20 0942 CST		
	SCT030 SCT300	7 SM	04010P16 KT
			RWY 15/33 X=14 H/T=7
EDW	Valid: Wednesday Feb 20 1712 UTC – 1847 UTC		
	Wednesday Feb 20 1112 CST – 1247 CST		
	SCT100 SCT250	7 SM	26009P17 KT
	SLGT CHC RA WI 30NM		RWY 22/04 X=10 H/T=14
NOR	Valid: Wednesday Feb 20 1539 UTC – 1849 UTC		
	Wednesday Feb 20 0939 CST – 1249 CST		
	SCT100 BKN200	7 SM	22007P15 KT
			RWY 17/35 X=10 H/T=11

END OF PAGE 1 OF 1, MSG 112