STS-122 / 1E

FD 07 Execute Package

MSG	Page(s)	Title
053A	1 - 13	FD07 Flight Plan Revision **(pdf)**
054	14 - 15	FD07 Mission Summary **(pdf)**
055	16 - 17	FD06 MMT Summary **(pdf)**
056A	18	FD07 Transfer Message **(pdf)**
057	19	EVA Tools Management **(pdf)**

Approved by FAO: *Jennifer Clevenger*

Last Updated: Feb 13 2008 8:44AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX

MSG NO.	TITLE
053	FD07 Flight Plan Revision
054	FD07 Mission Summary
055	FD06 MMT Summary
056	FD07 Transfer Message (16-1026)
057	EVA Tools Management (16-1027)

1. Hello Rex, Hans, Stan, and Dex,
   Good luck on the EVA today!

   We know there were problems with the camera near the end of EVA 1, and unfortunately, the pictures you downlinked of the Airlock handrail were not clear enough for us to determine the nature of the anomaly. Until we can do so, please consider this area of the handrail a No Touch Zone due to the potential for a sharp edge. Time and lighting permitting, at the end of EVA 2 we will ask you to take some more pictures of the handrail. We would like 3-4 photos, taken from various angles, in daylight.

   Dex and Stan, in preparation for potential SARJ get-aheads on EVA 3, an updated FD 7 EVA Tools Management procedure is located in 16-1027 (MSG 057).

2. There are no exercise constraints for FD07.

3. REPLACE PAGES 2-22, 2-24, AND 3-68 THROUGH 3-77.

MET Day 005 — 12 13 14 15 16 17 18 19 20 21 22 23 006/00 (08 09 10 11 12 13 14 15 16 17 18 19)

STS-122	CDR FRICK	SLEEP; POST SLEEP; PMC A/G; POST SLEEP; HYG BRK/ HATCH CLS; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; IMU; P/TV07 EVA SPPT; MEAL; P/TV07 EVA SPPT
STS-122	PLT POINDEXTER	SLEEP; POST SLEEP#; EXERCISE; PAD INHIB; EVA2 IVA SPPRT PREP; PDS; EVA2 IVA SPPRT
STS-122	MS1 MELVIN	SLEEP; LOG; POST SLEEP; XFR UPDAT; RMS*; MIDDEC UM**; EXERCISE; SSRMS P1 NTA R&R
STS-122	MS2/EV1 WALHEIM	SLEEP; POST SLEEP; HYG BRK/ PREBREATHE (A/L REP, 10.2 DPRS); CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDS; C-LK; EGRS; EVA 2 (06:30); P1 NTA RMVL FROM PLB; P1 NTA INSTALL; NTA STOW IN PLB
STS-122	MS3/EV2 SCHLEGEL	SLEEP; POST SLEEP; HYG BRK/ PREBREATHE; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDS; C-LK; EGRS; P1 NTA RMVL FROM PLB; P1 NTA INSTALL; NTA STOW IN PLB
STS-122	MS4/EV3 LOVE	SLEEP; LOG; POST SLEEP; RMS*; XFER OPS; EXERCISE; SSRMS P1 NTA R&R
DN	FE-2 TANI	SLEEP; SLEEP; POST SLEEP; PWR WIND DW; DPC; CWC INIT; ZSR RLCT; CWC TERM; PWS ACT; PCS ACT; D1 RT; ROTATE D1 RACK; EXERCISE RED; MIDDAY-MEAL; EMU-T; BLB RPDA %; RELOCATE BIOLAB - A2; ♣
ISS	ISS CDR WHITSON	SLEEP; POST SLEEP; HYG BRK/ HATCH CLS; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; EPM UMB MATE; EXERCISE CEVIS; MIDDAY-MEAL; INSTL D1 FLOOR PANEL; ⊕
ISS	FE-1 MALENCHENKO	SLEEP; POST SLEEP; PW HAM; DPC; RS2 LOAD; РОДНИК SAMPLE; LOAD; ИМП-1 MNT; ПУ ATV RLCT; RS2; VELO + RED; EXERCISE TVIS; MIDDAY-MEAL; КПТ-2-EXE-4
UP	FE-2 EXP16 EYHARTS	SLEEP; POST SLEEP; PREP WORK; DPC; PREP WORK; ADAPT; READ; ROTATE D1 RACK; READ; UNLK CFA AVM; ROTATE D1 RACK; INSTL VCA2; MIDDAY-MEAL; ♦; UNLK WPA AVM; UNLK CWSA AVM; RELOCATE BIOLAB - A2; ®

DAY/NIGHT

ORBIT 88 89 90 91 92 93 94 95 96

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

ORB ATT — BIAS -XLV -ZVV

NOTES
- ISS EXTERNAL SURVEY
- #√HUM SEP
- *MNVR-EVA2 VIEW
- *OFF
- *FILTER CHECK
- ♦COMMS-VCA2-CNFG
- %PNL-INSTL
- ♣EXERCISE
- ⊕EXERCISE R
- ®DC CNVTR

02/13/08 02:36:13 **REPLANNED**

FD07
GMT 02/13/08 (044)
MET Day 006

20 21 22 23 02/14 01 02 03 04 05 06 07
006/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-122	CDR FRICK	P/TV07 EVA SPPT; EXERCISE; POST EVA W/H2O,METOX; PRE SLEEP; PMC OCA; PRE SLEEP; SLEEP
STS-122	PLT POINDEXTER	EVA2 IVA SPPRT; P-RPS; RPRS; PWR FILL #5; CDM*; ILUM*; PRE SLEEP; EVA 3 TOOL CONFIG; PRE SLEEP; CDM-A; SLEEP
STS-122	MS1 MELVIN	SSRMS P1 NTA R&R; RMS*; XFER OPS; XFER; TAG; BRIEF; PRE SLEEP; SLEEP
STS-122	MS2/EV1 WALHEIM	NTA STOW IN PLB; COL TRUN CVRS; CLNUP & INGRS; P-RPS; RPRS; POST EVA W/H2O,METOX; PRE SLEEP; SLEEP
STS-122	MS3/EV2 SCHLEGEL	NTA STOW IN PLB; COL TRUN CVRS; CLNUP & INGRS; P-RPS; RPRS; POST EVA W/H2O,METOX; PRE SLEEP; SLEEP
STS-122	MS4/EV3 LOVE	SSRMS P1 NTA R&R; RMS*; XFER OPS; XFER; TAG; PRE; SLEEP; EVA 3 TOOL CONFIG; PRE SLEEP; SLEEP
DN	FE-2 TANI	EXERCISE TVIS; RELOCATE EDR - F1; FIRE; C/O; DPC; ♣; PFC; PRE SLEEP-ISS; SLEEP
ISS	ISS CDR WHITSON	EXERCISE RED; PREP; WORK; POST EVA W/H2O,METOX; BSA INIT; D/L #; DCS; PRE SLEEP-ISS; SLEEP
ISS	FE-1 MALENCHENKO	⊕; COЖ MNT; GLOVE; ♦; DWNLD; PREP WORK; DPC; PRE SLEEP-ISS; SLEEP
UP	FE-2 EXP16 EYHARTS	®; PMC; RELOCATE EDR - F1; PREP WORK; DPC; PRE SLEEP-ISS; SLEEP

DAY/NIGHT

ORBIT: 96 97 98 99 100 101 102 103 104

TDRS W -171.0 E -46.0 Z -275.0

ORB ATT: BIAS -XLV -ZVV

NOTES
⊕КПТ-2-EXE-4 *ON ♣PRE SLEEP-ISS
®DC CNVTR INSTL ♦КРИОГЕМ-03-СК #EVA Image Downlink
*MNVR-COL VIEW *BATT C/O

ISS EXTERNAL SURVEY

STS-122 FD (07)

REPLANNED

GMT Date 02/13 (044) | W | TDRSE | Z | DORB | ORB | MET Day 005 | STS ATI

CDR FRICK | PLT POINDEXTER | MS1 MELVIN | NOTES

12:00 — 13:00 — 14:00 — 15:00 — 16:00

08:00 — 09:00 — 10:00 — 11:00

DORB: 15, 16, 1, 2 — ORB: 88, 89, 90, 91

BIAS-XLV-ZVV

SLEEP (CDR FRICK)

SLEEP (PLT POINDEXTER)

SLEEP (MS1 MELVIN)

FD07 EZ ACTIVITIES:
OCAC FILTER INSPECTION
HARD REBOOT ALL PGSCs

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
√HUM SEP for H2O Accumulation

FLIGHT SLEEP LOG (ORB OPS, SDBI)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRIVATE MEDICAL CONFERENCE
Perform via A/G2

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA SYSTEMS: 2.315 HYGIENE BREAK
Steps 21-29, MCC-H will perform step 23

EVA SYSTEMS: 2.320 10.2 PSIA
CAMPOUT EVA PREP

STS-122 FD (07)

REPLANNED

GMT Date 02/13 (044) | W | TDRS E | Z | DORB 15 16 1 2 | ORB 88 89 90 91 | MET Day 005 | STS ATI

MS2 WALHEIM | MS3 SCHLEGEL | MS4 LOVE | NOTES

12:00 — 13:00 — 14:00 — 15:00 — 16:00

08:00 — 09:00 — 10:00 — 11:00

BIAS-XLV-ZVV

SLEEP (MS2, MS3, MS4)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (MS2, MS3)

FLIGHT SLEEP LOG (ORB OPS, SDBI)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (MS4)

EVA SYSTEMS: 2.315 HYGIENE BREAK
MCC-H will perform steps 1 - 4, 16 - 20 and 23 (MS2, MS3)

EVA SYSTEMS: 2.320 10.2 PSIA
CAMPOUT EVA PREP (MS2, MS3)

STS-122 FD (07)

REPLANNED

GMT Date 02/13 (044) | W | TDRSE | Z | DORB | ORB | MET Day 005 | STS ATT

CDR FRICK

- EVA SYSTEMS: 2.320 10.2 PSIA
- CAMPOUT EVA PREP
- EVA SYSTEMS: 1.220 EMU PURGE
- EVA SYSTEMS: 1.225 EMU PREBREATHE
- EVA SYSTEMS: CREWLOCK DEPRESS (CC)
- IMU ALIGN - S TRK (ORB OPS, GNC)
- P/TV07 EVA (PHOTO/TV, SCENES)
- P/TV SUPPORT SSMRS
  Config Shuttle Cameras per ROBO 1.410

PLT POINDEXTER

- POST-SLEEP ACTIVITY
  (ORB OPS, CREW SYS)
  √HUM SEP for H2O Accumulation
- EXERCISE
- EVA INHIBIT PAD
  (EVA, TIMELINES)
- IVA SUPPORT PREP
- EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)
- IVA SUPPORT EVA2

MS1 MELVIN

- POST-SLEEP ACTIVITY
  (ORB OPS, CREW SYS)
- DAILY TRANSFER LIST UPDATE
  Ref. Transfer List & MSG 056
- OBSS MNVR TO EVA 2 VIEWING POSITION A
  (PDRS, OBSS NOMINAL)Steps 1-3
  L17 Check MCIU filter screen
  ILLUMINATOR OPS (CUE CARD)ILLUM OFF - ALL
- EXERCISE
- ROBOTICS: 1.410 EVA 2-P1 NTA R&R
  Use CH 72 (DNLK) vice 71 (MON2) for
  Orbiter camera view callouts

A R12(VPU): VPU PWR - ON
Disregard all "Green Jumper - ISS" callouts

NOTES

STS-122 FD (07)

REPLANNED

GMT Date 02/13 (044) | W | TDRSE | Z | DORB | ORB | MET Day 005 | STS ATT | MS2 WALHEIM | MS3 SCHLEGEL | MS4 LOVE | NOTES

12:00 13:00 14:00 15:00

16:00 17:00 18:00 19:00 20:00

2 9 1 3 9 2 4 9 3

BIAS-XLV-ZVV

MS2 WALHEIM	MS3 SCHLEGEL	MS4 LOVE
EVA SYSTEMS: 2.320 10.2 PSIA CAMPOUT EVA PREP	EVA SYSTEMS: 2.320 10.2 PSIA CAMPOUT EVA PREP	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
		OBSS MNVR TO EVA 2 VIEWING POSITION A (PDRS, OBSS NOMINAL)Steps 1-3
EVA SYSTEMS: 1.220 EMU PURGE	EVA SYSTEMS: 1.220 EMU PURGE	TRANSFER OPS Ref. Transfer List, Item 803
EVA SYSTEMS: 1.225 EMU PREBREATHE	EVA SYSTEMS: 1.225 EMU PREBREATHE	
	A R12(VPU): VPU PWR - ON Disregard all "Green Jumper - ISS" callouts	
EVA SYSTEMS: CREWLOCK DEPRESS (CC)	EVA SYSTEMS: CREWLOCK DEPRESS (CC)	EXERCISE
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)	EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)	
EVA SYSTEMS: CREWLOCK EGRESS (CC)	EVA SYSTEMS: CREWLOCK EGRESS (CC)	ROBOTICS: 1.410 EVA 2-P1 NTA R&R Use CH 72 (DNLK) vice 71 (MON2) for Orbiter camera view callouts
P1 NTA REMOVAL FROM PLB	P1 NTA REMOVAL FROM PLB	

STS-122 FD (07)

REPLANNED

GMT Date 02/13 (044) | W | TDRSE | Z | DORB | ORB | MET Day 005 | STS ATT | CDR FRICK | PLT POINDEXTER | MS1 MELVIN | NOTES

Time	CDR FRICK	PLT POINDEXTER	MS1 MELVIN
20:00	P/TV07 EVA (PHOTO/TV, SCENES) P/TV SUPPORT SSMRS Config Shuttle Cameras per ROBO 1.410		ROBOTICS: 1.410 EVA 2-P1 NTA R&R Use CH 72 (DNLK) vice 71 (MON2) for Orbiter camera view callouts
21:00	MEAL		
22:00	P/TV07 EVA (PHOTO/TV, SCENES) P/TV SUPPORT SSMRS Config Shuttle Cameras per ROBO 1.410	IVA SUPPORT EVA2	
23:00			
00:00			

Time scale: 16:00, 17:00, 18:00, 19:00

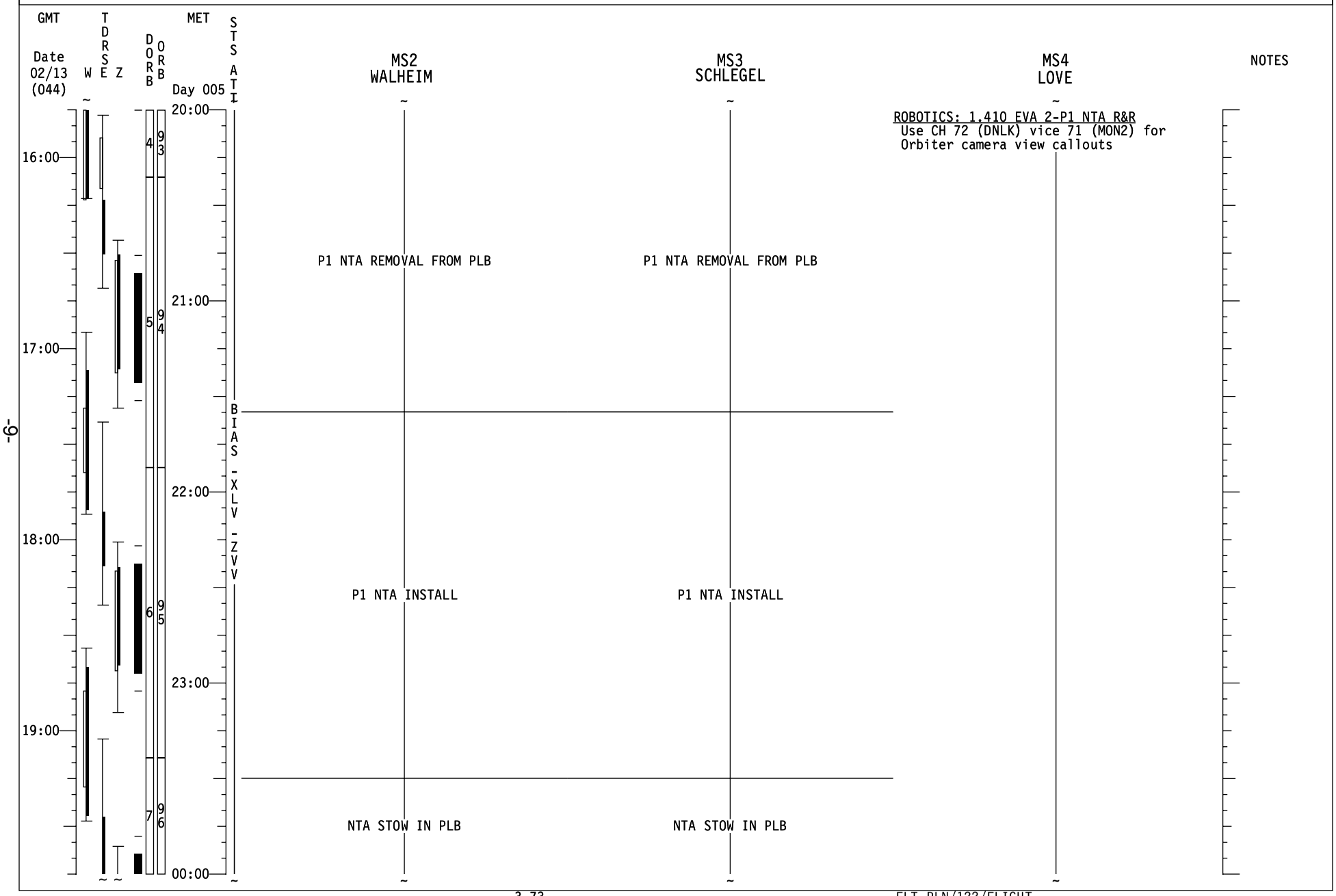
DORB: 4, 5, 6, 7

ORB: 93, 94, 95, 96

STS ATT: BIAS-XLV-ZVV

STS-122 FD (07)

REPLANNED



STS-122 FD (07)

REPLANNED

GMT Date 02/13 (044) | W | TDRSE | Z | DORB | ORB | MET Day 006 | STS ATT

CDR FRICK	PLT POINDEXTER	MS1 MELVIN	NOTES
P/TV07 EVA (PHOTO/TV, SCENES) P/TV SUPPORT SSMRS Config Shuttle Cameras per ROBO 1.410		ROBOTICS: 1.410 EVA 2-P1 NTA R&R Use CH 72 (DNLK) vice 71 (MON2) for Orbiter camera view callouts	
	IVA SUPPORT EVA2		
EXERCISE			
	EVA SYSTEMS: PRE REPRESS (CC) EVA SYSTEMS: CREWLOCK REPRESS (CC)	OBSS MNVR TO EVA 2 VIEWING POSITION (PDRS, OBSS NOMINAL)Step 4 TRANSFER OPS Ref. Transfer List, Items 713,714 & 715	
EVA SYSTEMS: 1.240 POST EVA With H2O With METOX Steps 37 & 67 not req'd Ref: STS-122 CONSUMABLES TRACKING CC (EVA) Ref: POST EVA GLOVE PHOTOS (EVA, MAINT/RCHRG)	PWR FILL (ORB OPS, ECLS) Perform Water Fill #5 Ref. MSG 005 CDM SETUP AND BATTERY CHANGEOUT (ORB OPS, CDM DTO) Location 4 ILLUMINATOR OPS (CUE CARD)ILLUM ON - All √R12(VPU): VPU PWR - ON √Green Jumper - LDRI/ITVC PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	TRANSFER TAGUP Coordinate with xfer counterpart TRANSFER BRIEF Call down status to MCC PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	EVA TOOLS MANAGEMENT Ref. MSG 057 PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
VIDEO TELECONFERENCE (ORB OPS, OCA) Omit VLHS Items in Step 1, Omit Step 3 Use A/G2 for Audio & WLES PGSC			OCA-PMC

Time scale: 20:00, 21:00, 22:00, 23:00; Day 006 00:00, 01:00, 02:00, 03:00, 04:00

STS ATT: BIAS - XLV - ZVV

ORB: 7 96, 8 97, 9 98

STS-122 FD (07)

REPLANNED

GMT Date 02/13 (044) | W | TDRS E | TDRS Z | DORB 7 | DORB 8 | DORB 9 | ORB 96 | ORB 97 | ORB 98 | MET Day 006 | STS ATI

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

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

BIAS - XLV - ZVV

MS2 WALHEIM

NTA STOW IN PLB

COL TRUNNION COVERS

CLEANUP AND INGRESS

EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: CREWLOCK REPRESS (CC)

EVA SYSTEMS: 1.240 POST EVA
With H2O
With METOX
Steps 37 & 67 not req'd

Ref: STS-122 CONSUMABLES TRACKING CC (EVA)

Ref: POST EVA GLOVE PHOTOS (EVA, MAINT/RCHRG)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS3 SCHLEGEL

NTA STOW IN PLB

COL TRUNNION COVERS

CLEANUP AND INGRESS

EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: CREWLOCK REPRESS (CC)

EVA SYSTEMS: 1.240 POST EVA
With H2O
With METOX
Steps 37 & 67 not req'd

Ref: STS-122 CONSUMABLES TRACKING CC (EVA)

Ref: POST EVA GLOVE PHOTOS (EVA, MAINT/RCHRG)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS4 LOVE

ROBOTICS: 1.410 EVA 2-P1 NTA R&R
Use CH 72 (DNLK) vice 71 (MON2) for Orbiter camera view callouts

OBSS MNVR TO EVA 2 VIEWING POSITION
(PDRS, OBSS NOMINAL)Step 4

TRANSFER OPS
Ref. Transfer List, Items 713,714 & 715

TRANSFER TAGUP
Coordinate with xfer counterpart

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

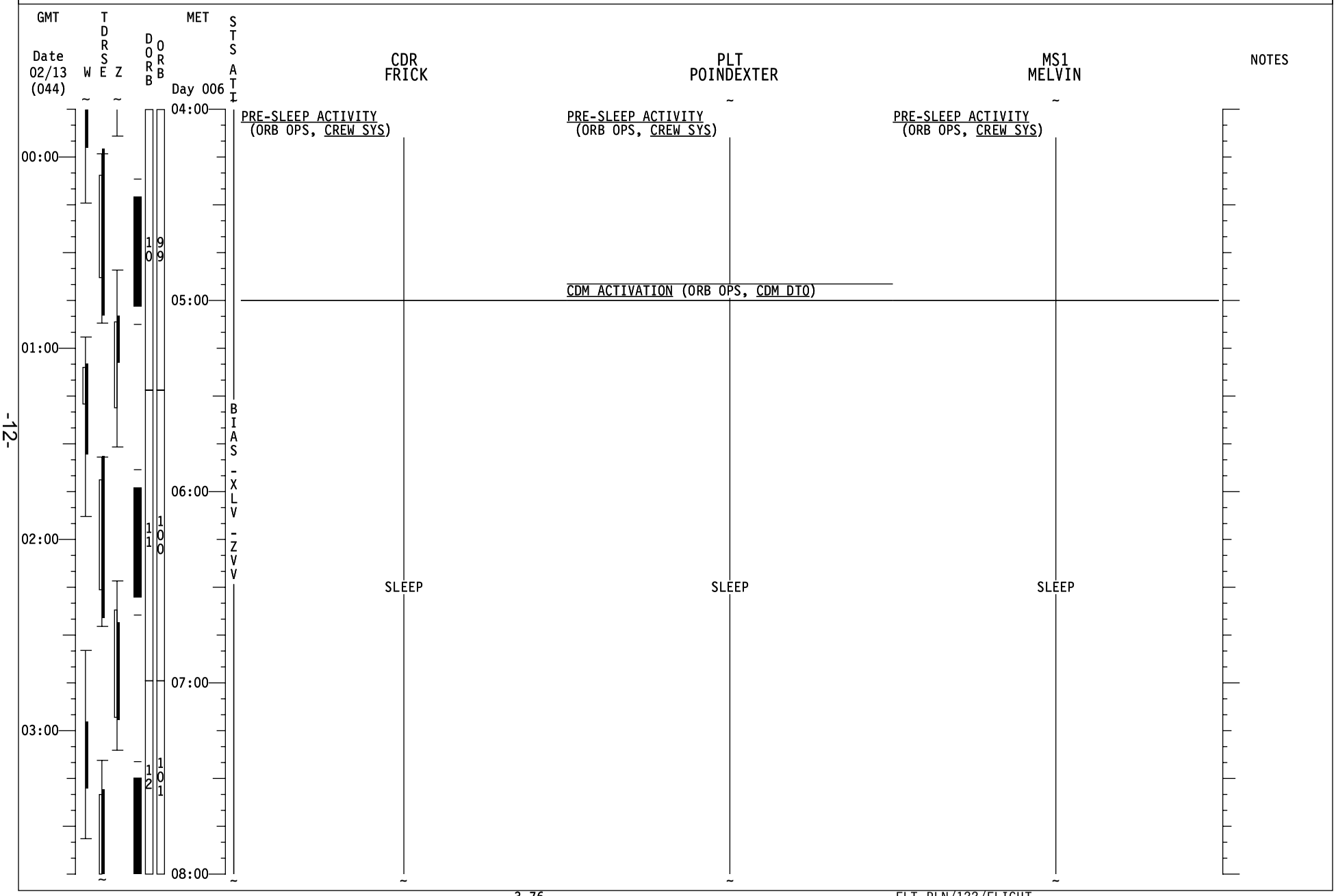
EVA TOOLS MANAGEMENT
Ref. MSG 057

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NOTES

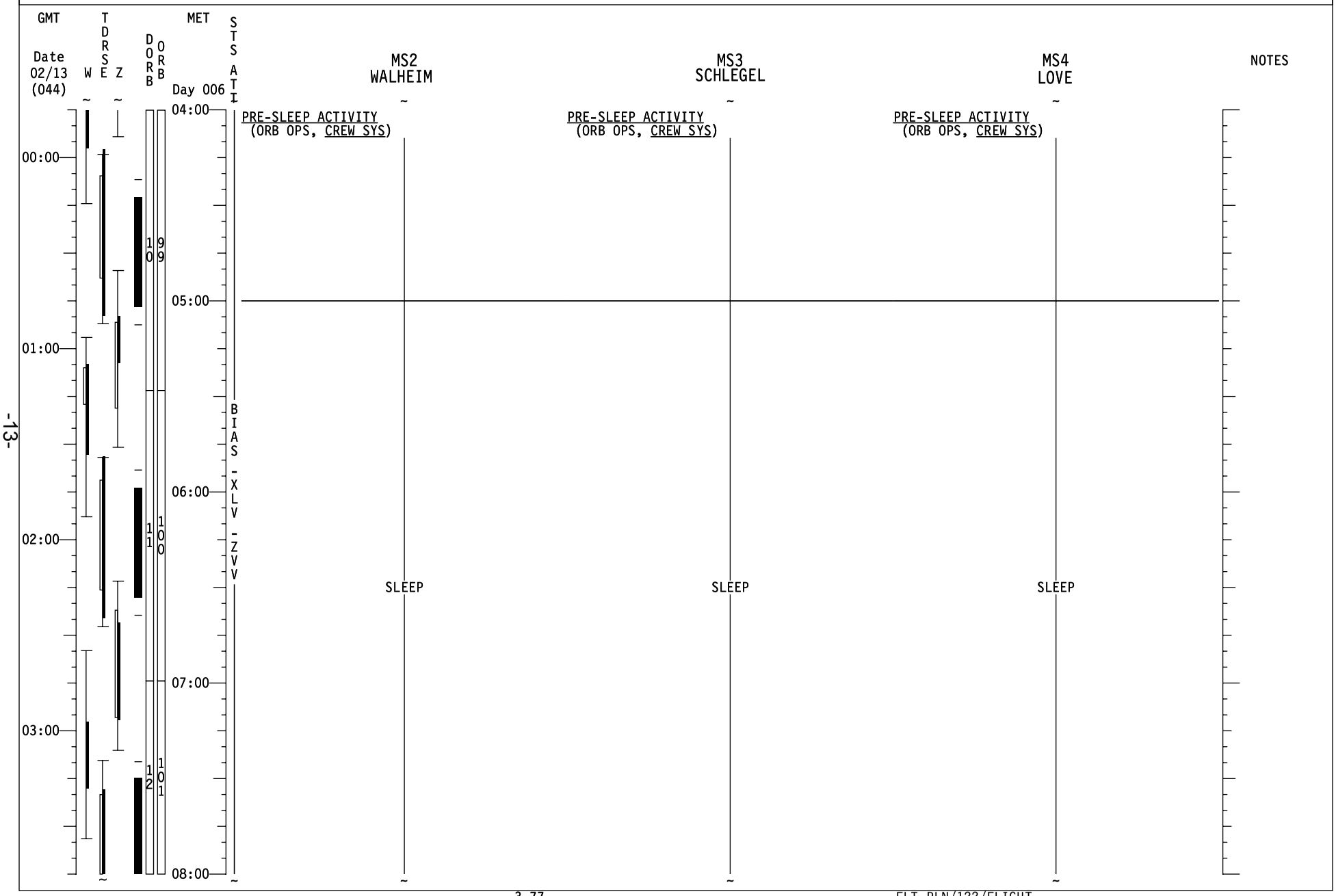
STS-122 FD (07)

REPLANNED



STS-122 FD (07)

REPLANNED



Good Morning Atlantis!!!!

Yesterday was another stellar day! It was very satisfying to see Columbus commissioned!
We enjoyed your PAO events!

Have a great EVA day!

YOUR CURRENT ORBIT IS: 185 X 176 NM

NOTAMS:

EDW – LAKEBED RUNWAYS RED.
NOR – LAKEBED RUNWAYS GREEN.
NKT – RWYS 05L/23R + 14L/32R NOT USABLE.
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.
DOV – 14/32 CLOSED.
ZZA – FIRST 600M (~2,000') OF RWY 30L NOT AVAILABLE. 10,200' REMAINING.

NEXT 2 PLS OPPORTUNITIES:

NOR17 ORB 95 – 5/22:44 (SKC 180/9P18)
EDW04 ORB 111 – 6/23:03 (FEW120 SCT250 040/14P23)

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	359 FPS
ARCS (TOTAL ABOVE QTY1)	46 FPS
TOTAL IN THE AFT	405 FPS
ARCS (TOTAL ABOVE QTY2)	79 FPS
FRCS (ABOVE QTY 1)	23 FPS
AFT QTY 1	79 %
AFT QTY 2	41 %

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

END OF PAGE 2 OF 2, MSG 054

FD06 MMT Summary

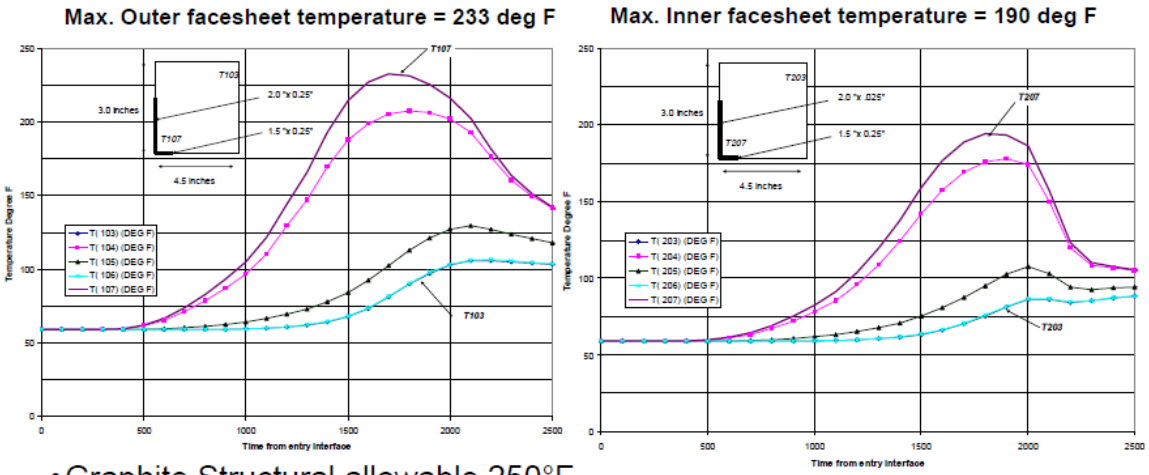
The MMT met to review mission progress, orbiter status, SSME final reports, and TPS evaluation status. As expected, the ROMS blanket and the window tile damage sites were cleared for entry. Preliminary analysis data for the missing stinger tile is still looking good and the complete analysis is expected at tomorrow's MMT. As stated in the FD04 MMT Summary, the TPS is still considered "Degraded" until all of the analysis has been reviewed by the MMT, but the TPS is acceptable for entry with no impacts to entry operations. The Columbus Module ingress was complete prior to the MMT, and the entire MMT was thrilled with the successful addition and incorporation of this European contribution to the ISS.

Ascent Imagery - All ascent imagery has now been collected and reviewed. Based on the SRB video, the imagery team has identified several additional potential impacts to the bottom of the orbiter. All of these sites have been cleared for entry based on the RPM pictures.

Damage Assessment Team - The DAT has cleared 16 of the 17 thermal blanket/tile items. A report of each of the cleared damaged sites was presented today. The ROMS blanket was fully characterized by the Focused Inspection and fully analyzed by the DAT. There is no flow or heating predicted beneath the protruding blanket. A conservative analysis shows the maximum temperatures are below structural thermal limits with margin (Figure 1). Aerodynamically, there is no concern with the blanket coming out further, nor is there a concern with debris liberation during entry. The predicted load at the end of entry heating (Mach 4.5) is 0.5 pounds. The predicted load at Mach 1 is 2.4 pounds. Using a test article, 11 pounds of force was required to move the blanket enough to lift the blanket above the surrounding area.

EVA DCM status - The DCM problem experienced during yesterday's EVA was reproduced on the ground after many attempts. The most likely cause is a software timing issue associated with the airlock depress rate and the ECWS displays. The power cycle from SCU to Battery was demonstrated to clear the anomaly.

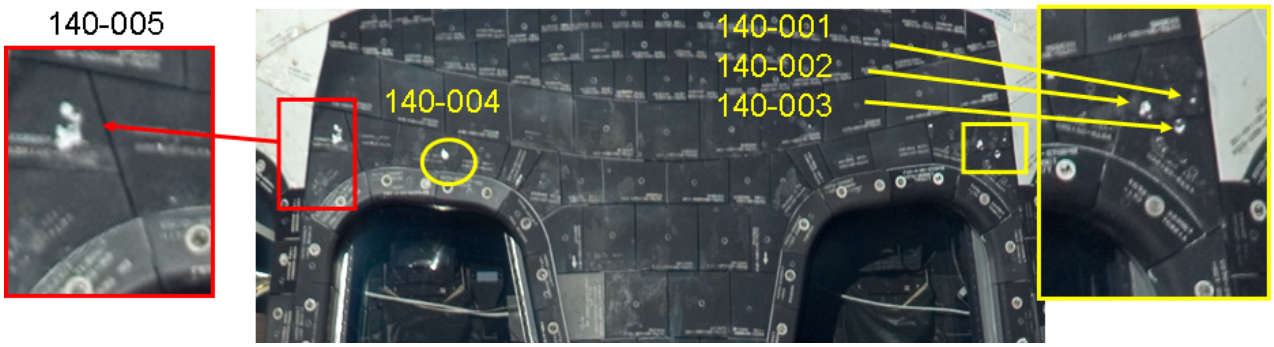
SSME Report - The final SSME report was presented to the MMT. The SSMEs all performed nominally and had no anomalies. The redesigned HPOTP knife edge seal performed nominally.



- Graphite Structural allowable 250°F
- No Structures/Stress assessment is required for graphite epoxy temperatures below 250°F

Figure 1 - ROMS Blanket Thermal Analysis

Steve – Additional Window Tile ding pictures.



Good morning Leland & Stan,

Today we've added one additional transfer task: swap the Shuttle Cycle Ergometer seat cushion with the one from ISS per Transfer List items 805 and 806.

We see you're very close to being complete with Resupply, and we show you're 61% complete with Return.

The Transfer List Excel file, FD07_TransferList_STS122.xls, is located on the KFX machine in **C:\OCA-up\transfer**.

For ISS, the Transfer List Excel file, FD07_TransferList_STS122.xls, is located in **K:\OCA-up\transfer**.

Q&As:

- **IELK Foam:** Since you're not using this foam for BMRRM return, we're working an alternate plan for it.
- **Bag A:** The ground is still analyzing your alternate proposal for the BMRRM packing plan. Since this is a change, we need a little more time to verify all constraints are met. We expect to have words for you tomorrow.
- **Return Item 401:** We did not hear you call this item down as complete, but we saw this was stowed in Bag G per the FD06 downlink video and have checked it off as complete.
- **Return Item 700:** We believe the only outstanding item in this bag is 700.5 (Ziplock with TVIS parts). Item 700.6 (GSC), 700.7 (PPRV), and 700.8 & 700.10 (Air Samples) should be ready to be packed for return per activities completed yesterday.
- Yesterday the ISS crew got ahead in the timeline. In addition to the items in Return Bag 700, the following items are now ready for transfer:
    - **Item 701 (ESA OFK CTB):** Configured for return per Columbus D2/D3 Hardware Relocate
    - **Item 713 (Knee Brace):** Removed during EPM Relocate

FD07 Choreography

- Item 803 (Yuri): Pack water samples for return after РОДНИК SAMPLE activity.
- Item 714 (Leland): Transfer returning knee brace to STS after RELOCATE EDR – F1
- Item 715 (Leland): Transfer returning knee brace to STS after RELOCATE BIOLAB - A2

Please update the Transfer List as follows:

In **RESUPPLY** tab:
Replace page Resupply 12

In **RETURN** tab:
Replace page Return 11

Call us with any questions.

- The Transfer Team

Flight Day 7 – EVA 2 Tool Deconfig/EVA 3 Tool Config

1. Deconfigure NTA bag
   - ❑ Deconfigure fish stringer:
     - o Remove T-handle tool; stow in ISS Temp Stow bag
     - o Remove all tethers; stow tethers and fish stringer in airlock tether staging area
   - ❑ Remove round scoop; stow in Crewlock bag #4
   - ❑ Remove Round Torque Multiplier
   - ❑ Remove 5/8 socket from TM; stow socket and TM in Crewlock bag #4
   - ❑ Verify camera removed (charging)
   - ❑ Remove socket caddies; return tethers to tether staging area; place 7.8-ext 5/8 sockets (2) and caddies (2) in ISS Temp Stow bag
   - ❑ Remove Loop Pin Puller; place in A/L Cont Tools crewlock bag
   - ❑ Remove remaining interior tethers; stow in tether staging area
   - ❑ Leave crewlock bag in Airlock (becomes COL Crewlock bag)

2. Place MUT EE (3) and Ballstacks (2) in ISS Temp Stow bag; return adj tethers to tether staging area

3. Retrieve EVA 3 bag and distribute as follows:
   - ❑ OIH bag – label handrails (931 and 933-937) and stow in Airlock
   - ❑ 2 COL WIFs – COL Crewlock bag
   - ❑ Keel Pin cover – COL Crewlock bag
   - ❑ HRs 929, 930, 932 – label handrails and stow in COL Crewlock bag
   - ❑ Socket (6 " 7/16th wobble) – EV1 PGT

4. Retrieve Crewlock bag with kapton tape on cover (SARJ bag) – Prelim config
   - ❑ Verify 8 tape strips (min) on door (ref MSG 16-0457 pg 5 for tape strip build up)
   - ❑ RET (lg-eq)
   - ❑ Adj equip tether – ext (to secure bag at worksite)
   - ❑ Digital Camera w/ flash and mount – secured to exterior (morning of EVA)
   - ❑ Adj equip tether (2, to secure camera)
   - ❑ EVA Wipes (3) – stowed in NOD1P4_D
   - ❑ IV book clip w/zip ties (2) (retrieve from EVA unique HW bag, replace zip ties)
   - ❑ RET's (eq-eq) (2, to secure book clips)
   - ❑ RET equip tether (to ext D-ring for EV1 overgloves)
   - ❑ Adj equip tether (hooks to door handle)

5. Retrieve any trash from EV1's & EV2's small trash bags; discard

6. Deconfigure Airlock Contingency Tools Crewlock bag:
   - ❑ Remove 2 85-ft safety tethers; place by EV1 and EV3 suits
   - ❑ Remove socket (6" 7/16th wobble); install on EV2 PGT

7. Add an additional Adj tether to each EV's MWS to use for fairleads out to SARJ (2 fairleads per crewmember plus Adj needed for cover restraint)

8. Perform EVA 3 TOOL CONFIG in EVA 3 Timeline pages (section 7)