# STS-120 / 10A

## *FD 05 Execute Package*


| MSG | Page(s) | Title |
|---|---|---|
| 036A | 1 – 15 | FD05 Flight Plan Revision **(pdf)** |
| 037A | 16 – 17 | FD05 Mission Summary **(pdf)** |
| 038 | 18 | FD04 MMT Summary **(pdf)** |
| 039 | 19 – 20 | FD05 Transfer Message **(pdf - Electronic Only)** |
| 040 | 21 – 22 | FD05 EVA DELTAS **(pdf)** |
| 041 | 23 – 24 | RCC PLUG HOUSING REPLACEMENT **(pdf)** |
| 042 | 25 – 30 | Handover Attitude Control Orbiter to CMG-Only Without RS SMTC **(pdf)** |
| 043A | --- | PAO Event Summary Message - CBS News, FOX News, WHAM-TV, Rochester, NY **(pdf – Electronic Only)** |
| 044A | 31 | FD05 FCMS Trouble Shooting **(pdf)** |
| 045B | 32 – 34 | Node 2 Equipment Prep **(pdf)** |
| 046 | 35 – 36 | FD05 PGSC Network Cabling Replacement **(pdf)** |

***Approved by FAO:*** *Roger Smith*

*Last Updated: Oct 27 2007 4:57AM GMT*
***JEDI*** *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX



1. During the FD2 OBSS Grapple and Unberth, the ground noticed that the arm digitals were offset about 4 inches in the starboard direction. To help us better understand the offset, could you tell us if the OBSS unberth was recorded on Camera C or D during FD2.

   The time period of interest is:
   GMT: 297/09:07:30 - 297/09:39:55

2. Peggy, Yuri, and Paolo,

   We would like to remind you about the Node2 Air Sampling Choreography that you'll be performing today during Node 2 Ingress. Yuri is scheduled to take Russian air samples using the ИПД-СО & АК-1М, while Peggy and/or Paolo will be taking CSA-CP and GSC samples. In order to minimize the amount of time crewmembers are in Node 2 prior to initiating ventilation, Yuri will be setting up the Russian sampling equipment prior to Ingressing Node 2.

   We have timelined the activities to reflect this sequence, but the intent is that CSA-CP readings are taken at the same time as the ИПД-СО samples and the GSC samples are taken concurrent with the АК-1М sample.

   Also, please remember that all crewmembers who ingress Node 2 should don PPE (surgical masks from the Shuttle LiOH Compartment Lid and goggles from the ISS CCPK) until 2.5 hours has elapsed after the initiation of ventilation between Node 1 and Node 2. Once the Node 2 ingress is complete, please save your mask to be used for a future LiOH changeout. Peggy will be saving her mask for a FD7 Node 2 Rack Rotation activity.

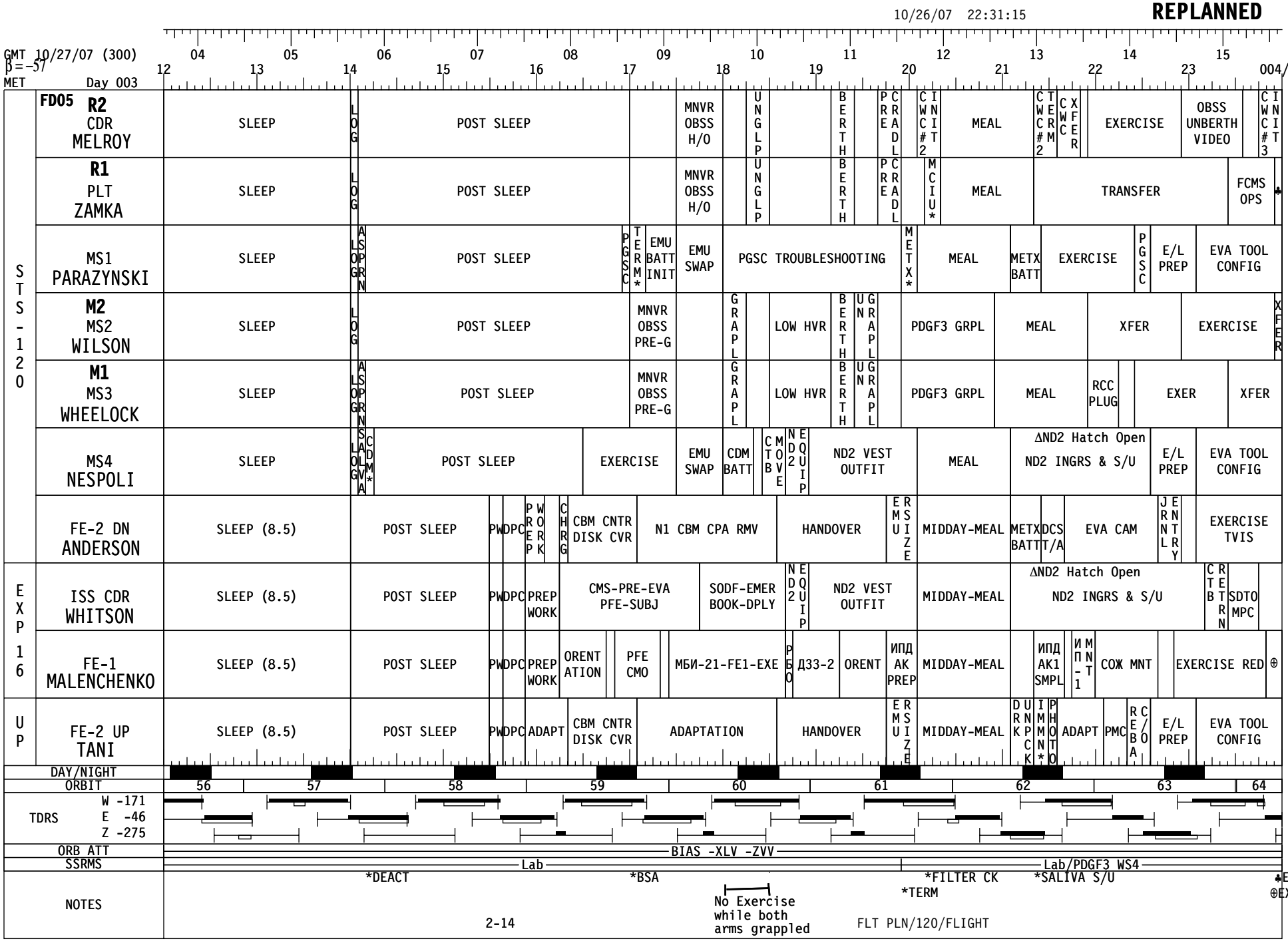
3. Melroy or Zamka: If not worked already, please perform MSG 035 - DCS760 CAMERA ISSUES.

4. Since the Node 2 Starboard CBCS flap was unexpectedly open, exposing the hatch window for a few days, we'd like to get some words on how the window fared. Please give us a call down today immediately after Node 2 ingress with a brief description of the condition of the Node 2 Starboard hatch window.

5. The table below summarizes the Shuttle and ISS exercise constraints for today. These constraints are also denoted in your timelines for your reference.

| Activity | Exercise Constraints | |
|---|---|---|
| | Shuttle | ISS |
| OBSS HANDOFF | No exercise while both arms are grappled to OBSS | No exercise while both arms are grappled to OBSS |

6. REPLACE PAGES 2-14, 2-16, AND 3-44 THROUGH 3-53.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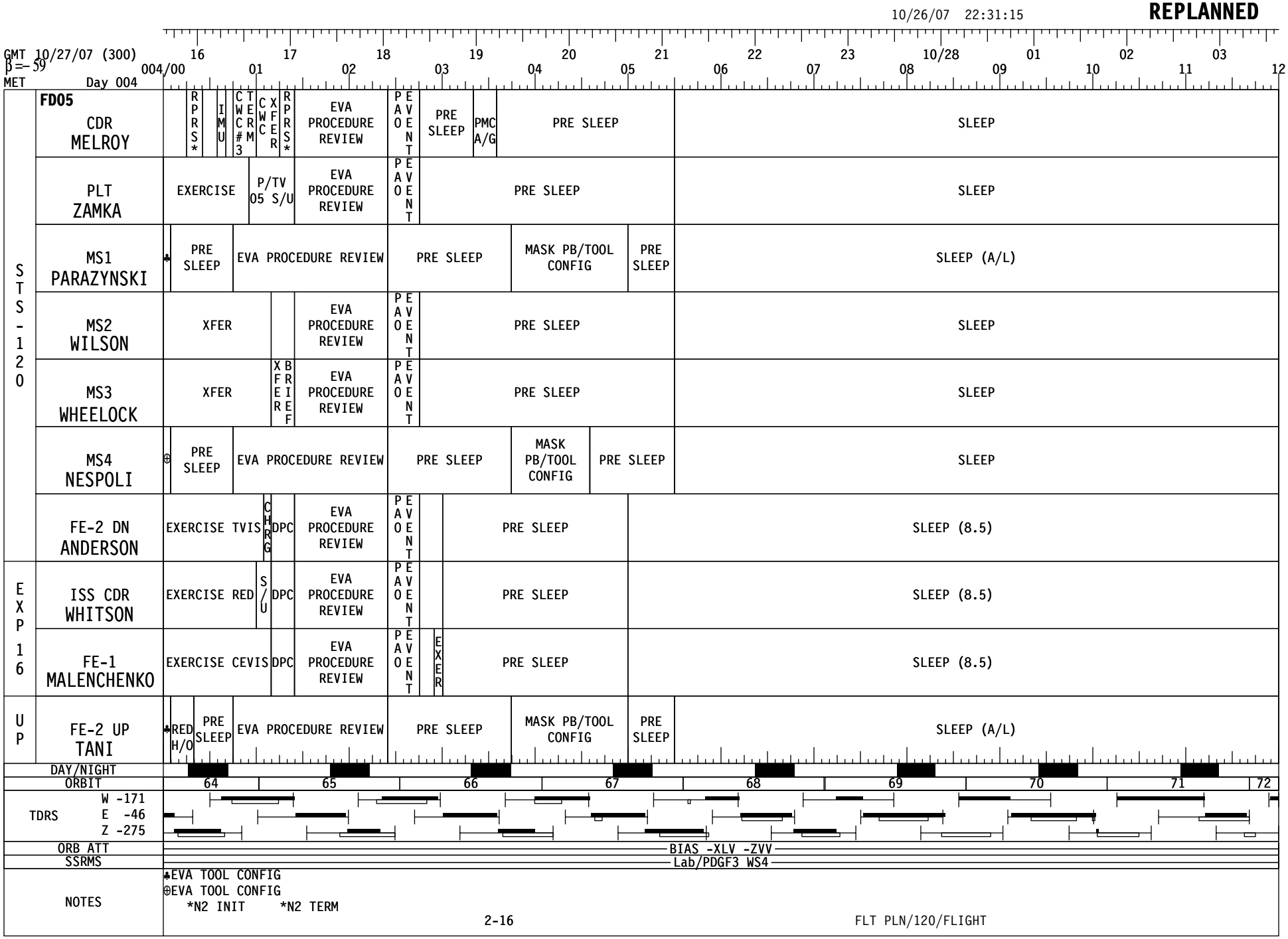
GMT 10/27/07 (300)
β = -57°
MET Day 003
04 05 06 07 08 09 10 11 12 13 14 15
12 13 14 15 16 17 18 19 20 21 22 23 004/00
STS-120
FD05 R2 CDR MELROY
SLEEP | LOG | POST SLEEP | MNVR OBSS H/O | UNGLP UNGLP | BERTH BERTH | PRE PRE | CRADL CRADL | CWC#2 | INIT2 | MEAL | CWC#2 | TERM | CWC | XFER | EXERCISE | OBSS UNBERTH VIDEO | CWC#3 | INIT3
R1 PLT ZAMKA
SLEEP | LOG | POST SLEEP | MNVR OBSS H/O | UNGLP UNGLP | BERTH BERTH | PRE PRE | CRADL CRADL | MCIU* | MEAL | TRANSFER | FCMS OPS | ♣
MS1 PARAZYNSKI
SLEEP | LOG | ASPGRN | POST SLEEP | PGSC | TERM* | EMU BATT INIT | EMU SWAP | PGSC TROUBLESHOOTING | METX* | MEAL | METX BATT | EXERCISE | PGSC | E/L PREP | EVA TOOL CONFIG
M2 MS2 WILSON
SLEEP | LOG | POST SLEEP | MNVR OBSS PRE-G | GRAPL GRAPL | LOW HVR | BERTH BERTH | UNGRAPL UNGRAPL | PDGF3 GRPL | MEAL | XFER | EXERCISE | XFER
M1 MS3 WHEELOCK
SLEEP | LOG | ASPGRN | POST SLEEP | MNVR OBSS PRE-G | GRAPL GRAPL | LOW HVR | BERTH BERTH | UNGRAPL UNGRAPL | PDGF3 GRPL | MEAL | RCC PLUG | EXER | XFER
MS4 NESPOLI
SLEEP | LOG | SLA | CDM* | POST SLEEP | EXERCISE | EMU SWAP | CDM BATT | CTB | MOVE | ND2 | EQUIP | ND2 VEST OUTFIT | MEAL | ΔND2 Hatch Open ND2 INGRS & S/U | E/L PREP | EVA TOOL CONFIG
FE-2 DN ANDERSON
SLEEP (8.5) | POST SLEEP | PWD | DPC | PROP | WORK | CHRG | CBM CNTR DISK CVR | N1 CBM CPA RMV | HANDOVER | EMU | ERSIZE | MIDDAY-MEAL | METX BATT | DCS T/A | EVA CAM | JNTRY | EXERCISE TVIS
EXP16
ISS CDR WHITSON
SLEEP (8.5) | POST SLEEP | PWD | DPC | PREP WORK | CMS-PRE-EVA PFE-SUBJ | SODF-EMER BOOK-DPLY | ND2 | EQUIP | ND2 VEST OUTFIT | MIDDAY-MEAL | ΔND2 Hatch Open ND2 INGRS & S/U | CRTBTRN | SDTO MPC
FE-1 MALENCHENKO
SLEEP (8.5) | POST SLEEP | PWD | DPC | PREP WORK | ORENT ATION | PFE CMO | МБИ-21-FE1-EXE | РБО | Д33-2 | ORENT | ИПД АК PREP | MIDDAY-MEAL | ИПД АК1 SMPL | ИП-1 | MNT | СОЖ MNT | EXERCISE RED | ⊕
UP
FE-2 UP TANI
SLEEP (8.5) | POST SLEEP | PWD | DPC | ADAPT | CBM CNTR DISK CVR | ADAPTATION | HANDOVER | EMU | ERSIZE | MIDDAY-MEAL | DRKCK | UNPCK | IMMONT* | PHOTO | ADAPT | PMC | REBA | RC/BOA | E/L PREP | EVA TOOL CONFIG
DAY/NIGHT
ORBIT 56 57 58 59 60 61 62 63 64
TDRS W -171 E -46 Z -275
ORB ATT BIAS -XLV -ZVV
SSRMS Lab Lab/PDGF3 WS4
NOTES
*DEACT
*BSA
No Exercise while both arms grappled
*FILTER CK
*TERM
*SALIVA S/U
♣EXERCISE
⊕EXERCISE
2-14
FLT PLN/120/FLIGHT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10/26/07 22:31:15
GMT 10/27/07 (300)
β = -59
MET Day 004
004/00
16
17
18
19
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21
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23
10/28
01
02
03
04
05
06
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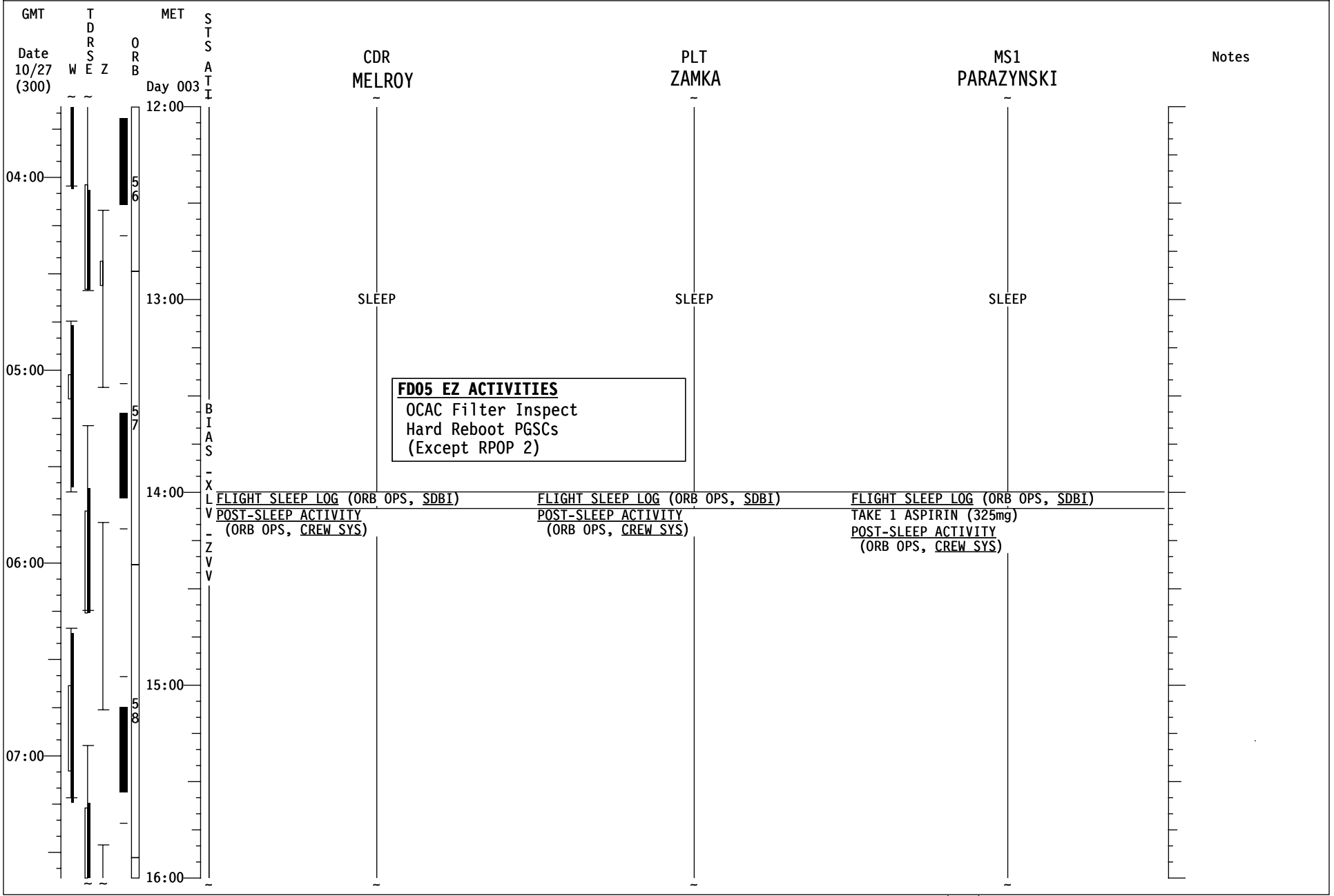
08
09
10
11
12
STS-120
EXP 16
UP
FD05
CDR MELROY
RPRS*
IMU
CTERM #3
CWC
XFER
RPRS*
EVA PROCEDURE REVIEW
PAO EVENT
PRE SLEEP
PMC A/G
PRE SLEEP
SLEEP
PLT ZAMKA
EXERCISE
P/TV 05 S/U
EVA PROCEDURE REVIEW
PAO EVENT
PRE SLEEP
SLEEP
MS1 PARAZYNSKI
♣
PRE SLEEP
EVA PROCEDURE REVIEW
PRE SLEEP
MASK PB/TOOL CONFIG
PRE SLEEP
SLEEP (A/L)
MS2 WILSON
XFER
EVA PROCEDURE REVIEW
PAO EVENT
PRE SLEEP
SLEEP
MS3 WHEELOCK
XFER
XFER BREF
EVA PROCEDURE REVIEW
PAO EVENT
PRE SLEEP
SLEEP
MS4 NESPOLI
⊕
PRE SLEEP
EVA PROCEDURE REVIEW
PRE SLEEP
MASK PB/TOOL CONFIG
PRE SLEEP
SLEEP
FE-2 DN ANDERSON
EXERCISE TVIS
CHRG
DPC
EVA PROCEDURE REVIEW
PAO EVENT
PRE SLEEP
SLEEP (8.5)
ISS CDR WHITSON
EXERCISE RED
S/U
DPC
EVA PROCEDURE REVIEW
PAO EVENT
PRE SLEEP
SLEEP (8.5)
FE-1 MALENCHENKO
EXERCISE CEVIS
DPC
EVA PROCEDURE REVIEW
PAO EVENT
EXER
PRE SLEEP
SLEEP (8.5)
FE-2 UP TANI
♣
RED H/O
PRE SLEEP
EVA PROCEDURE REVIEW
PRE SLEEP
MASK PB/TOOL CONFIG
PRE SLEEP
SLEEP (A/L)
DAY/NIGHT
ORBIT
64
65
66
67
68
69
70
71
72
TDRS
W -171
E -46
Z -275
ORB ATT
BIAS -XLV -ZVV
SSRMS
Lab/PDGF3 WS4
NOTES
♣EVA TOOL CONFIG
⊕EVA TOOL CONFIG
*N2 INIT *N2 TERM
2-16
FLT PLN/120/FLIGHT

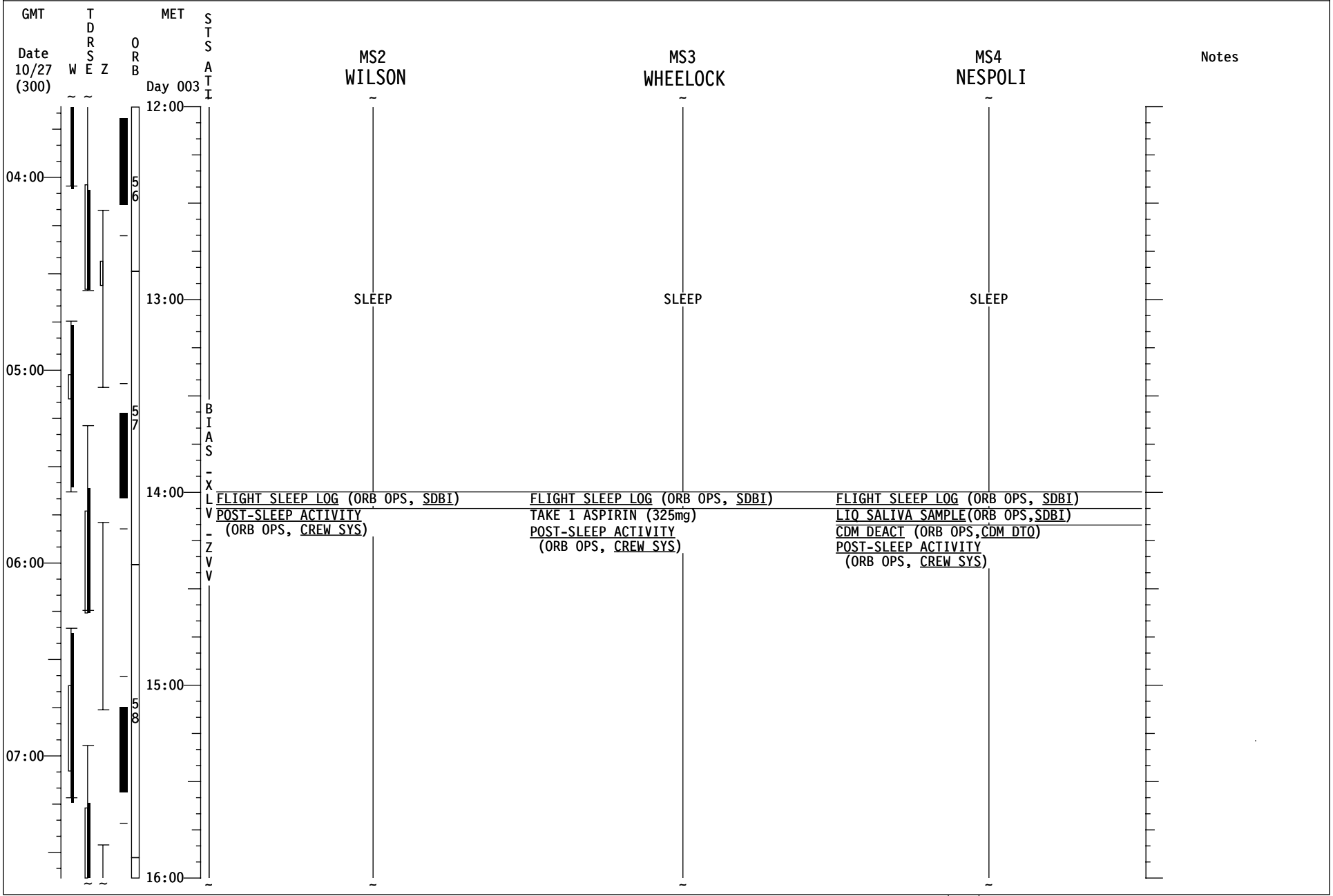
# STS-120 FD05

**REPLANNED**



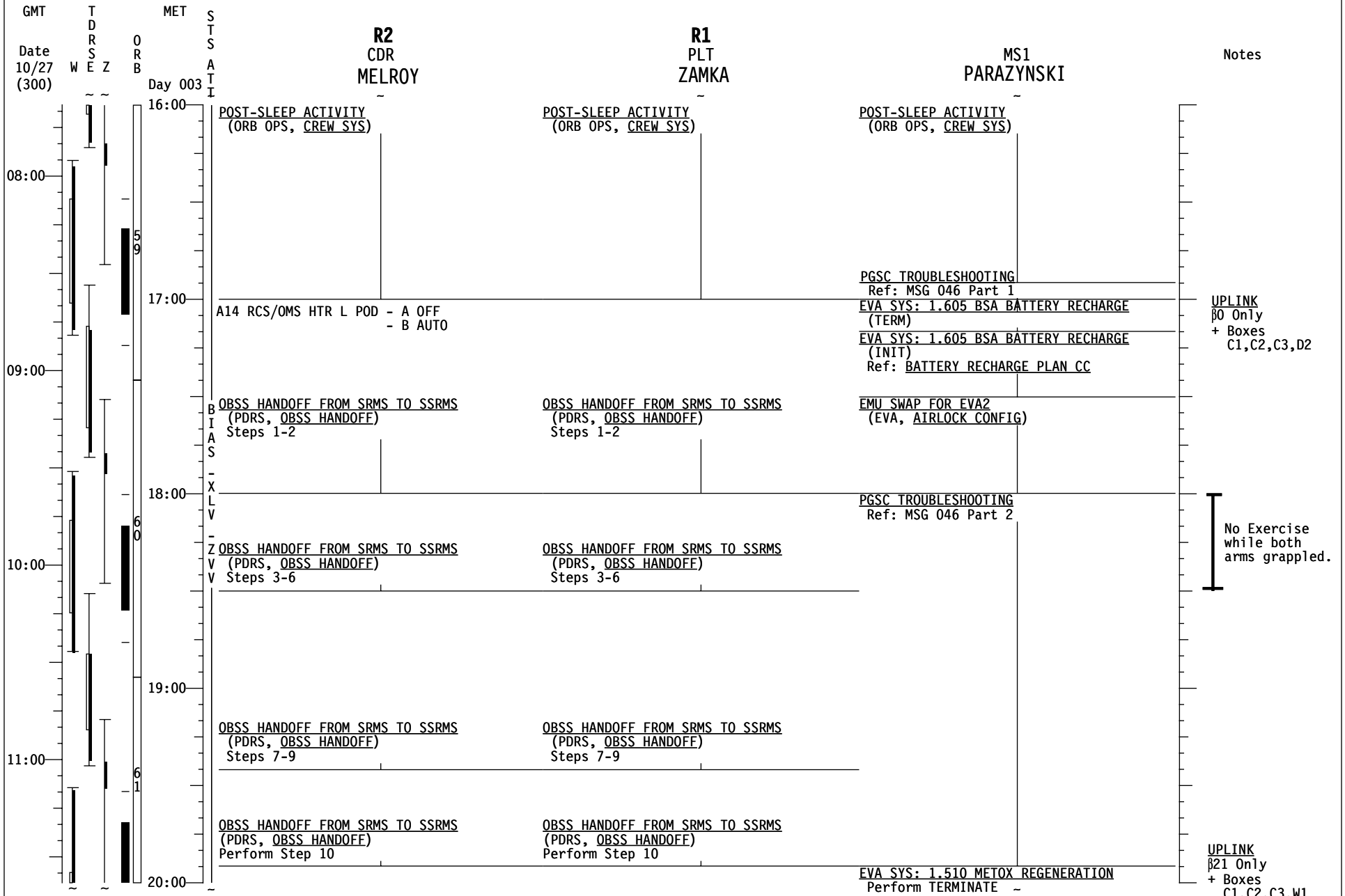
# STS-120 FD05

**REPLANNED**



# STS-120 FD05

**REPLANNED**



# STS-120 FD05

**REPLANNED**

GMT Date 10/27 (300) | MET Day 003 | TDRS W E Z | ORB 59 60 61 | STS ATI BIAS-XLV-ZVV

| | M2 MS2 WILSON | M1 MS3 WHEELOCK | MS4 NESPOLI | Notes |
|---|---|---|---|---|
| 16:00 | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) | |
| 17:00 | ROBO: 1.120 MNVR TO OBSS HANDOFF PRE-GRAPPLE | ROBO: 1.120 MNVR TO OBSS HANDOFF PRE-GRAPPLE | EXERCISE | |
| | | | EMU SWAP FOR EVA 2 (EVA, AIRLOCK CONFIG) | |
| 18:00 | ROBO: 1.121 OBSS GRAPPLE AND BERTH Steps 1-3 | ROBO: 1.121 OBSS GRAPPLE AND BERTH Steps 1-3 | CDM SETUP AND BATTERY CHANGEOUT (ORB OPS, CDM DTO) Attach CDM in Location 3 | No Exercise while both arms grappled. |
| 10:00 | ROBO: 1.121 OBSS GRAPPLE AND BERTH Steps 4-6 | ROBO: 1.121 OBSS GRAPPLE AND BERTH Steps 4-6 | CTB MOVE Remove stowage from NOD1P1 & temp stow until after the ND2 INGRS & S/U & P1 panel is in place | |
| | | | NODE 2 EQUIPMENT GATHER Ref: MSG 045 | |
| 19:00 | ROBO: 1.121 OBSS GRAPPLE AND BERTH Steps 7-11 | ROBO: 1.121 OBSS GRAPPLE AND BERTH Steps 7-11 | VESTIBULE CONFIG FOR INGRESS NOD1 TO NOD2 (ASSY OPS, ACT & C/O) Steps 3-8, 9.2-9.4 Ref. Transfer List Items 119,123,401.1 | |
| 11:00 | ROBO: 1.122 BERTHED OBSS UNGRAPPLE | ROBO: 1.122 BERTHED OBSS UNGRAPPLE | | |
| 20:00 | ROBO: 1.610 WALKOFF TO MBS PDGF3 Steps 1-4 | ROBO: 1.610 WALKOFF TO MBS PDGF3 Steps 1-4 | | |

# STS-120 FD05

**REPLANNED**

GMT Date 10/27 (300) | MET Day 003 | TDRS W E Z | ORB 61 62 63 64 | STS ATI BIAS -XLV -ZVV

## R2 CDR MELROY

20:00 SHUTTLE/ISS H2O CONTAINER FILL
(ORB OPS,ECLS Perform CWC FILL #2
Fill duration ~50 min,Ref MSG 029

MEAL

21:00 SHUTTLE/ISS H2O CONTAINER FILL
(ORB OPS, ECLS)
Perform FILL TERMINATION

CWC TRANSFER
Transfer CWC(s) to ISS

22:00 EXERCISE

23:00 OBSS UNBERTH VIDEO (If Available)
Ref: MSG 036, Item 1

00:00 SHUTTLE/ISS H2O CONTAINER FILL
(ORB OPS,ECLS)Perform CWC FILL #3
Fill Duration ~50 min, Ref MSG 029

## R1 PLT ZAMKA

L17 Check MCIU filter screen

MEAL

TRANSFER
Ref: MSG 039

FC MONITORING SYS (FCMS) OPS
(ORB OPS, EPS)
If PGSC Toubleshooting Unsuccessful:
Ref. MSG 044

EXERCISE

## MS1 PARAZYNSKI

EVA SYS: 1.510 METOX REGENERATION
Perform TERMINATE

MEAL

EVA SYS: 1.515 EMU METOX/LIOH/
BATTERY REPLACEMENT
Install METOX & EMU Batteries
Ref: CONSUMABLES TRACKING CC

EXERCISE

PGSC TROUBLESHOOTING
Ref: MSG 046 Part 3

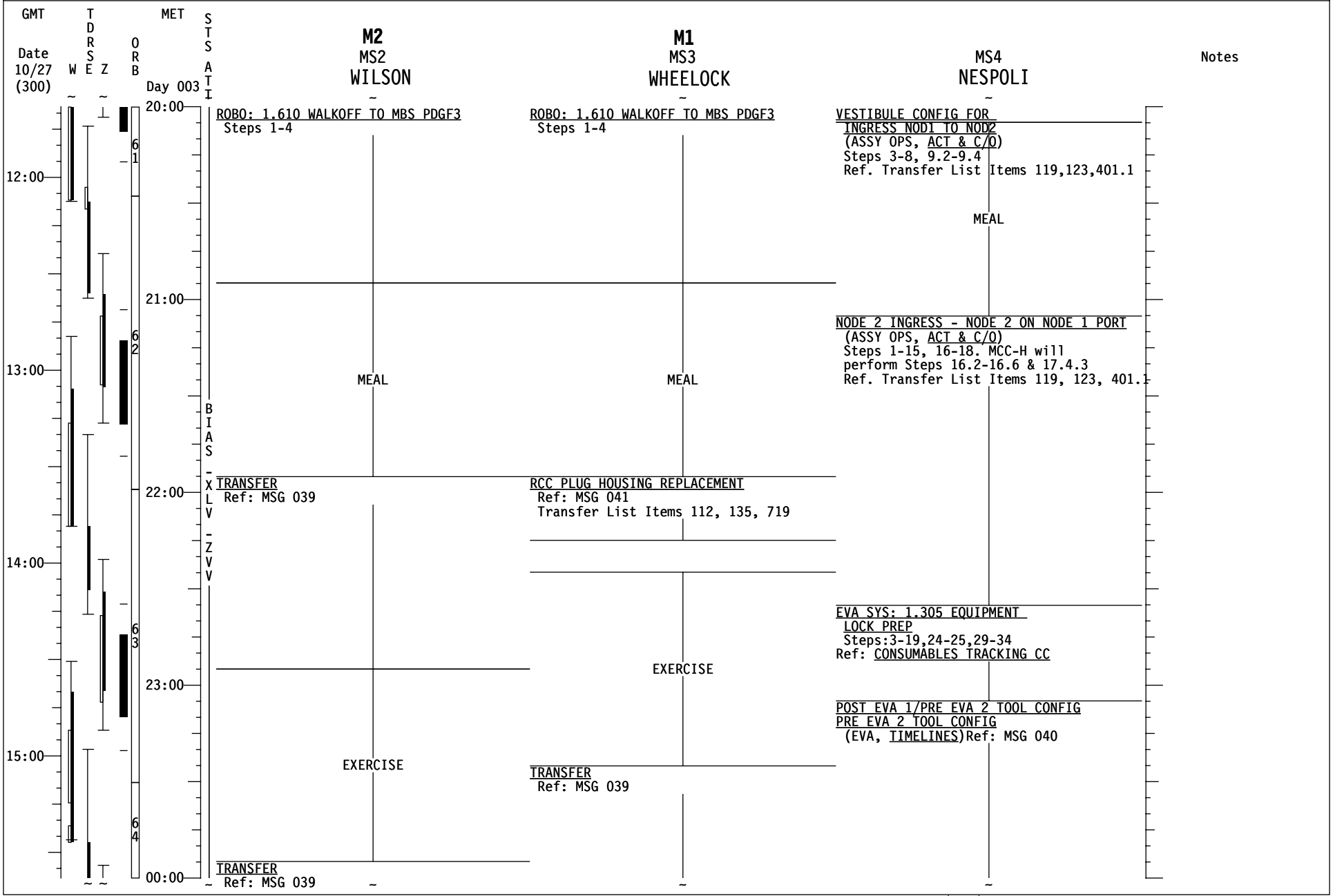
EVA SYS: 1.305 EQUIPMENT
LOCK PREP
Steps:3-19,24-25,29-34
Ref: CONSUMABLES TRACKING CC

POST EVA 1/PRE EVA 2 TOOL CONFIG
PRE EVA 2 TOOL CONFIG
(EVA, TIMELINES)Ref: MSG 040

Notes

# STS-120 FD05

**REPLANNED**



# STS-120 FD05

**REPLANNED**

GMT Date 10/27 (300) | MET Day 004 | TDRS W E Z | ORB 64 65 66 | STS ATI BIAS-XLV-ZVV

## R2 CDR MELROY

- On MCC GO: R13L MMU GN2 SPLY ISOL VLV A - CL (tb -CL)
- N2 REPRESS USING PAYLOAD N2 VLVS (ORB OPS, ECLS) Steps 1-6. MCC will TMBU SM FDA.
- IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
- SHUTTLE/ISS H2O CONTAINER FILL (ORB OPS, ECLS) Perform FILL TERMINATION
- CWC TRANSFER Transfer CWC(s) to ISS
- N2 REPRESS USING PAYLOAD N2 VLVS (ORB OPS, ECLS) Steps 7-12.MCC will TMBU SM FDA. On MCC GO: R13L MMU GN2 SPLY ISOL VLV A - OP (tb -OP)
- EVA PROCEDURE REVIEW REF: EVA 2 PREBRIEF (EVA, TIMELINES) Ref: MSGs 047, 048 & 049
- PUBLIC AFFAIRS EVENT KU: 02:21-02:50, TDRW Ref: MSG 043
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- PRIVATE MEDICAL CONFERENCE
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

## R1 PLT ZAMKA

- EXERCISE
- P/TV05 ISS INTERNAL OPS (PHOTO/TV, SCENES) Perform Setup
- EVA PROCEDURE REVIEW REF: EVA 2 PREBRIEF (EVA, TIMELINES) Ref: MSGs 047, 048 & 049
- PUBLIC AFFAIRS EVENT
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

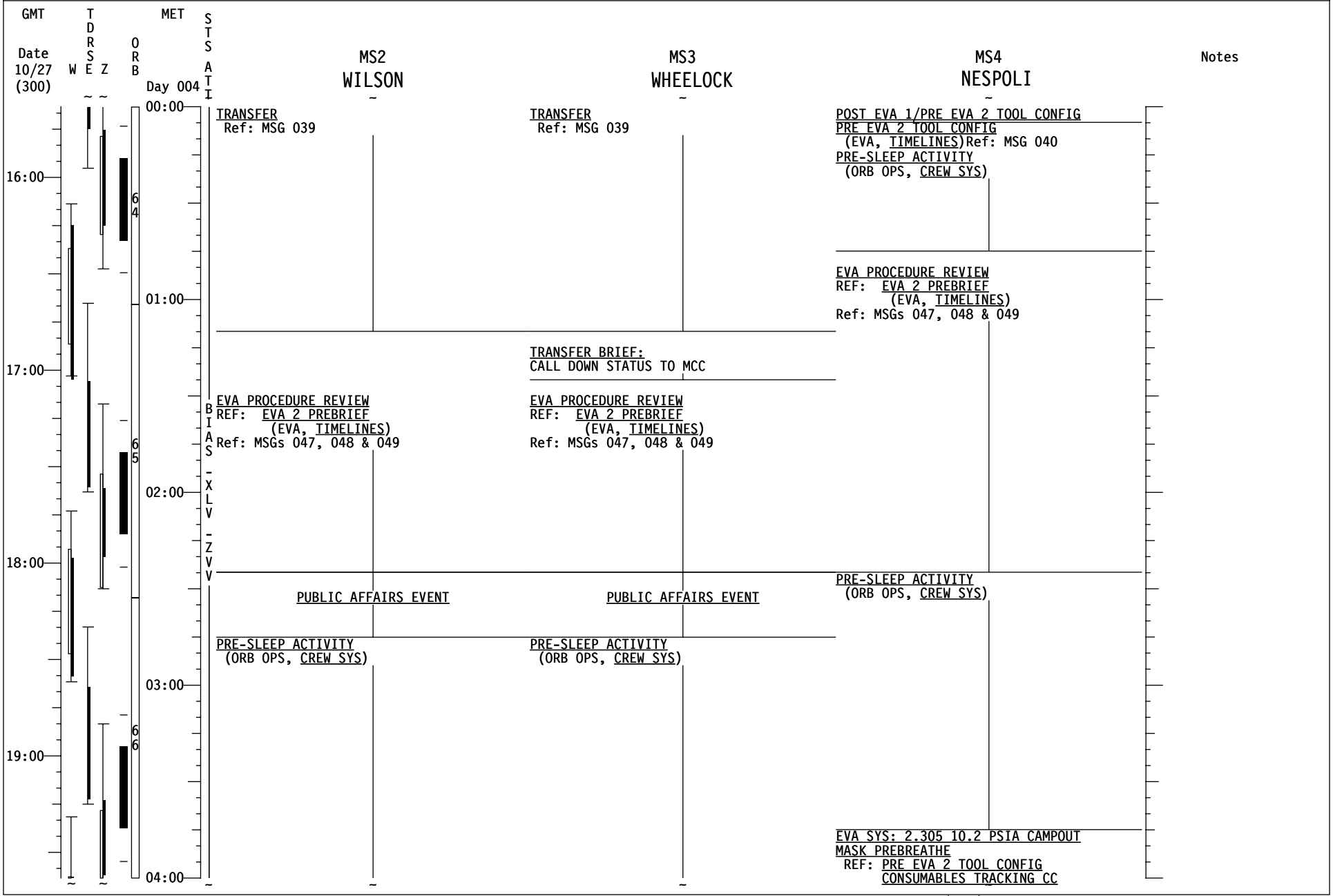
## MS1 PARAZYNSKI

- POST EVA 1/PRE EVA 2 TOOL CONFIG
- PRE EVA 2 TOOL CONFIG (EVA, TIMELINES) Ref: MSG 040
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EVA PROCEDURE REVIEW REF: EVA 2 PREBRIEF (EVA, TIMELINES) Ref: MSGs 047, 048 & 049
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EVA SYS: 2.305 10.2 PSIA CAMPOUT MASK PREBREATHE REF: PRE EVA 2 TOOL CONFIG CONSUMABLES TRACKING CC

Notes

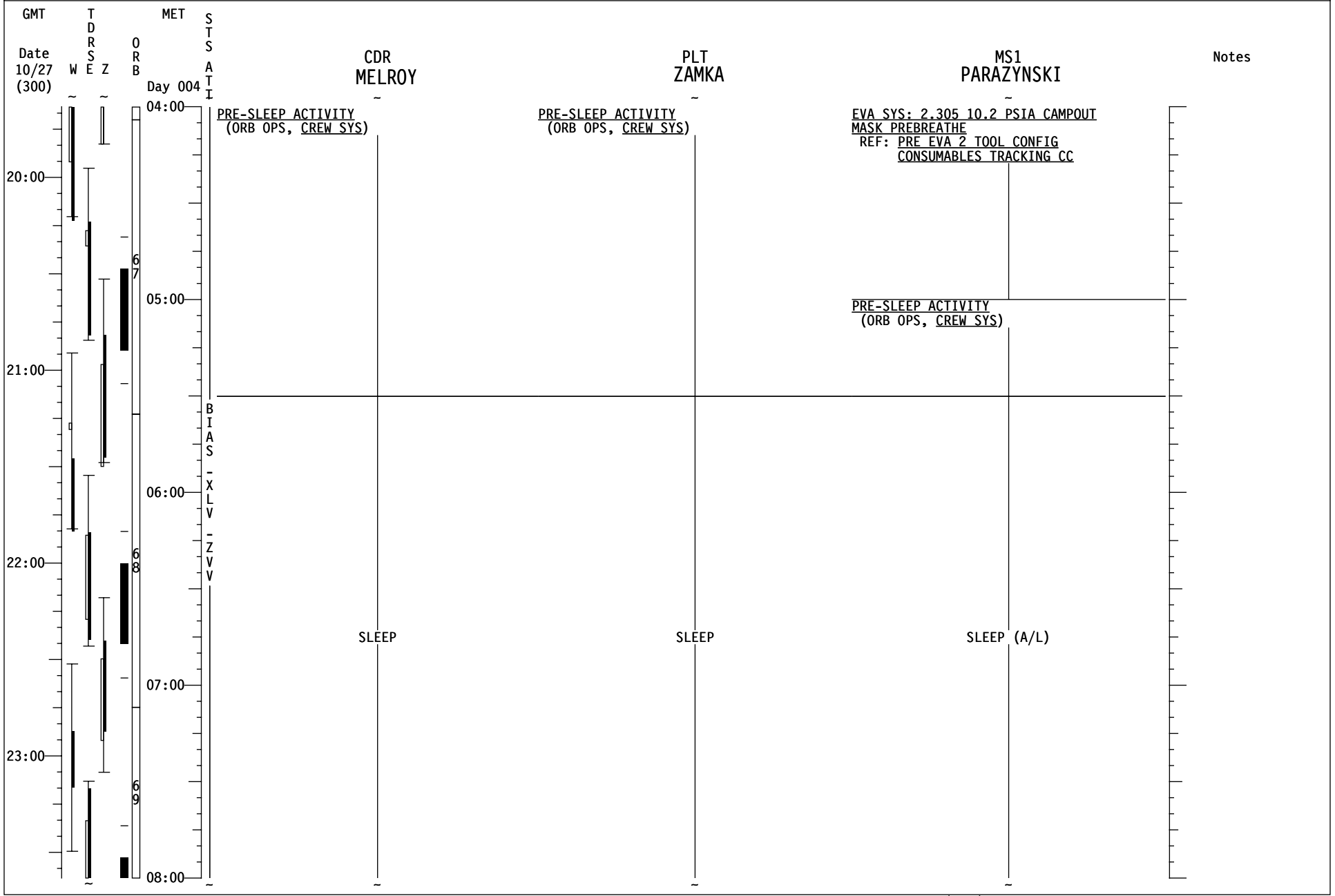
# STS-120 FD05

**REPLANNED**



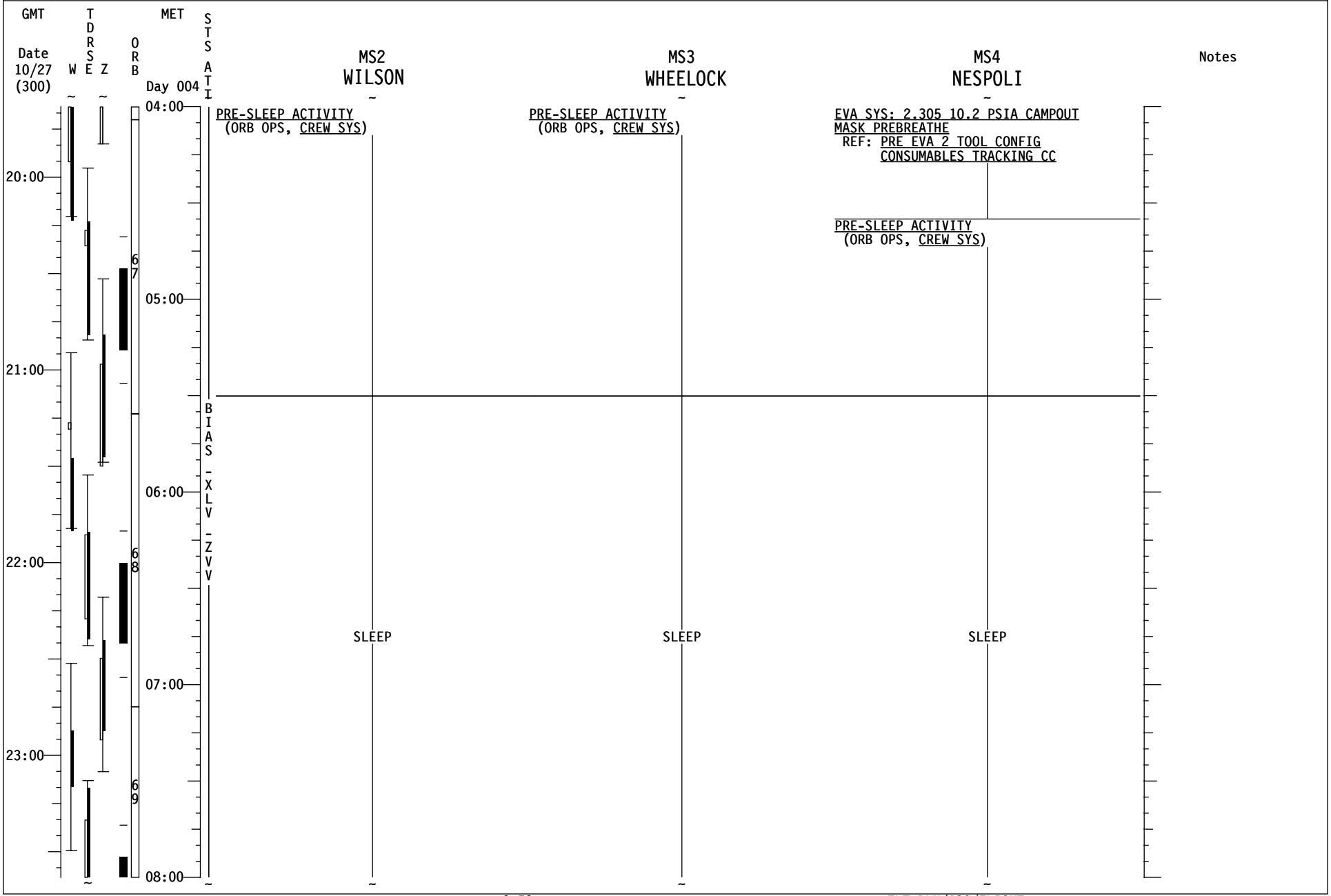
# STS-120 FD05

**REPLANNED**



# STS-120 FD05

**REPLANNED**



**MSG 037A (16-0065A) - FD05 MISSION SUMMARY**


Good Morning Discovery!!!

Yesterday was such a super successful day!!! Who would have predicted that Node 2 would be attached to station, right on schedule, just as planned!!! It is a wonderful feeling when a plan comes together like it did yesterday!!!! Too bad you could not hear the cheering that went on down here when Node 2 was secured to Node 1!

Trouble shooting the PGSCs has been added to today's timeline. Because the network problems have been intermittent, it is thought that the problem could be caused by bad network equipment. Because time is constrained the plan is to go ahead and change out all the cables instead of doing a cable by cable change out. In order to accomplish this, you will be using some excess station PGSC equipment.

YOUR CURRENT ORBIT IS: 188 X 180 NM

NOTAMS:

EDW – RWY 15/33 ELS ONLY. RWY 18L – CLOSED.
NOR – GREEN.
WAL – RWY 04/22 CLOSED.
FFA - ASCENT ONLY.
ZZA - FIRST 600M OF RWY 30L NOT AVAILABLE. 10,200' REMAINING.
WAK - UNUSABLE
AMB - UNUSABLE
JDG – DIEGO GARCIA: CLOSED UNTIL 29 OCTOBER 0100Z.
IKF – NO AGREEMENT FOR USE
AWG – NO AGREEMENT FOR USE.
HAO – DME OUT
BEN – POLITICALLY NOT RECOMMENDED/NOT SUPPORTED.

NEXT 2 PLS OPPORTUNITIES:

EDW04 ORB 64 – 4/00:22 (BKN200 060/04P06)
EDW04 ORB 79 – 4/23:10 (SCT250 060/07P12)

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 = 33.5 R OMS OX = 33.5
FU = 33.1 FU = 33.4

SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

| | |
|---|---|
| OMS | 343 FPS |
| ARCS (TOTAL ABOVE QTY1) | 44 FPS |
| TOTAL IN THE AFT | 387 FPS |
| | |
| ARCS (TOTAL ABOVE QTY2) | 77 FPS |
| FRCS (ABOVE QTY 1) | 27 FPS |
| | |
| AFT QTY 1 | 80 % |
| AFT QTY 2 | 42 % |

| SYSTEM | FAILURE | IMPACT | WORK AROUND |
|---|---|---|---|
| GNC 1 | GPS YETI : GPS Hardware CH 2 failed to track Y-code (encrypted signal). | Affected channel temporarily unable to track in Y-code (tracks in non-encrypted mode only). GPS unit still functional. | Condition cleared with INIT-NAV transition on SPEC 55. GPS continues to perform well. |
| GNC 2 | IMU 1 Inner Roll Null FL false BITE | None. Known software condition caused by taking IMU to STBY. IMU performance not affected. | BITE masked while IMU in STBY to prevent nuisance messages. Will unmask BITE for 3-level ops. |
| PRLA | PL SEL 1 LATCH 4 LAT A microswitch was slow to transition to off during PRLA release. | During PRLA release, PL RETEN LAT 4 tb reflected the status of the microswitch. No impact to PRLA close. | None. |

FD 4 MMT Summary

The MMT met to review mission progress and review the RCC part of the FD2 inspection results. The independent verification of the tile and thermal blanket analysis was in work at the time of the MMT, so that piece of the TPS story will be presented at tomorrow's MMT. Overall, all indications are that the TPS is in great shape. The RCC was formally cleared by the MMT today, and the initial analysis of the tile and thermal blankets found nothing to be concerned about. The tile and thermal blankets are expected to be formally cleared by the MMT tomorrow. Also, the MMT easily concurred with the recommendation to not perform a focused inspection on FD 5. EVA 1 ingress was in work at the start of the MMT, and the MMT was very pleased with the complete success of EVA 1.

**Starboard SARJ & EVA 2 -** The MMT received an informational briefing about the SARJ. The MMT acknowledged the IMMT direction to add a SARJ inspection to EVA 2 in place of some of the low priority Node 2 Outfitting tasks.

**Ascent Imagery Collection and Review** - All of the ascent imagery has been collected, and except for the SRB video, has been reviewed. The SRB video was being reviewed during the MMT and will be reported on tomorrow with the final imagery report on FD6. Two additional debris events were added to the list previously reported to you from the FD2 MMT. The two new debris events occurred at 187 sec and 277 sec. Both of these are well past the Aerodynamically Sensitive Transport Time (ASTT) and not a concern to the orbiter TPS. The radar data was also reviewed today and eleven reportable items are being reviewed to attempt to correlate them to ascent video. None of these items are a concern.

**RCC Analysis** - The FD2 RCC inspection data was presented. There were no issues identified and the RCC is cleared. As you know, concentrated imaging efforts and analysis were performed on the five joggle regions identified pre-flight. All five regions were confirmed to have no silicon carbide coating loss. A total of 449 regions of interest were identified and all were cleared by the team. None of these ROIs were in the joggle regions. This number of ROIs is consistent with previous flights.

**Wing Leading Edge Sensors -** The WLES is powered off now, but one more indication was recorded prior to powering down. This indication was 1.0 G and is not a concern.

**Orbiter Systems Status -** A few very minor items were reported to the MMT with the most discussion on the troubles experienced with the orbiter local area network. The team will continue to troubleshoot the LAN as necessary. All are extremely happy that Discovery continues to perform in such an outstanding manner.

Good morning Doug, Stephanie, and Dan,

Great work yesterday! You've accomplished a lot of transfer in a short amount of time. Keep up the amazing work!

The Transfer List Excel file, FD05_TransferList_STS120.xls, is located on the KFX machine in **C:\OCA-up\transfer**.

For ISS, the Transfer List Excel file, FD05_TransferList_STS120.xls, is located in **K:\OCA-up\transfer**.

**Transfer Notes**

- The electronic file has been updated with your completed items.
- We copied that Clay reported the final food containers are now empty and bundled for return, item 605.
- There is an error in the 'STS-120 Transfer Choreography' (under the References Tab, page Choreography - 2) for FD5: ND2 INGRESS & S/U & ND2 VEST OUTFIT. For this activity, both a Grab Sample and Russian Air Sample will be taken at Node 2 Ingress, however, only the Grab Sample container (item 401.1 on the Return Tab) is returning on the middeck (the choreography erroneously states that the Russian Samples also return in bag 401).
- Item 112 was reported completed yesterday – however because this item is required for today's RCC Plug Housing Replacement activity, we have not marked this item as 'completed' yet. After today's activity, we'll show this item as complete.

**Open Transfer List items for today's activities (Choreography)**

- **Return item 401.1** –GSC from NODE 2 ingress
- **Return item 412.2** – Defibrillator Resupply kit per timelined activity
- **Resupply item 112 and Return 719** – RCC tools per timelined activity
- **Any additional items as time permits**

**Please incorporate uplink pages as follows:**

In **RESUPPLY** tab
Replace Page(s):
Resupply – 3

**Changes to the Transfer List are detailed below:**

In **RESUPPLY** tab
**Item 112:** Updated Constraints (referenced correct return item), Added 'temp stow' location.

Call us with any questions and have a great day!

- The Transfer Team

# STS-120/10A Resupply Transfer List

| CHNG | ☑ | FD | Initials | Item # | Item Name | Qty | Initial Stowage | Temp Stowage | Stowage at Undock | Wt (lbs) | PROCEDURES/**Constraints**/ **Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **Middeck Resupply** | | | | | | | | |
| | ☑ | 3 | See Swap Tab - **IELK** | 110 | IELK<br>[Tani] | 1 | **MD CEIL STBD 2 (Bag H)** | | **SWAP** | 79.37 | |
| | ☑ | 3 | | 111 | D. Tani Athletic Shoes | 1 Pair | **MD CEIL STBD 2 (Bag H)** | | **Crew Pref Tani** | 2.00 | **Required for TVIS Exercise Handover on FD04**<br><br>**Reference item 716 on the RETURN Tab** |
| X | | | | 112 | Drive Bolt - 4<br>RCC Plug Female Housing - 4<br>RCC Plug Male Housing - 4<br>T-Bar Barrel Nut - 4 | 1 Ziplock (4 Foam Blocks) | **MD FLOOR PORT 1 (Bag A)** | **NOD1P4_C1** {1.0 CTB. S/N 1239} | **NOD1P4_C1** {1.0 CTB. S/N 1239} | 2.00 | **Required for RCC PLUG on FD05**<br><br>**Contents modified by EVA Procedure RCC PLUG HOUSING REPLACEMENT (20 min)<br><br>**Reference item 719 on the RETURN Tab. ~~135 on the RESUPPLY Tab~~.** |

[ ] - notes included by transfer team, - not on actual label
+ - Indicates weight of item included elsewhere

## 16-0070 (MSG 041) – RCC PLUG HOUSING REPLACEMENT (00:20)



| NOTE |
| --- |
| Four (4) sets of Plug attach hardware will be replaced with tighter tolerance hardware and the old cushions and hardware will be returned. |

Middeck Floor Port 1 (Bag A)

1. Retrieve four (4) foam cushions labeled “STS-120 NEW”, each containing:
   - 1 - RCC Plug Male Housing
   - 1 - RCC Plug Female Housing
   - 1 - T-bar Barrel Nut
   - 1 - Drive Bolt


Figure 1 – New foam cushion launching on Shuttle

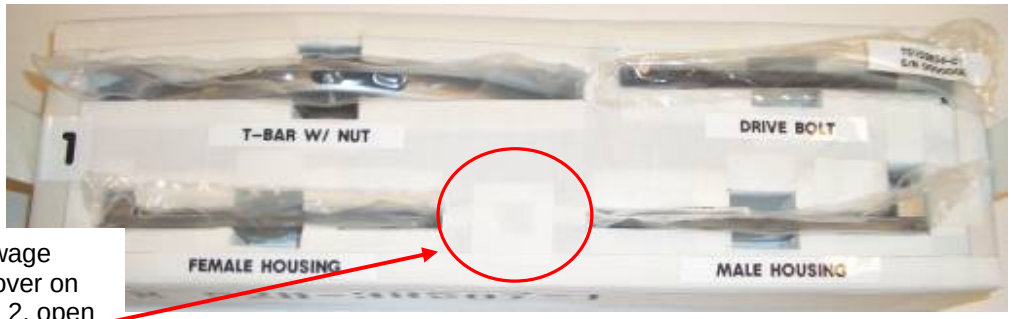
2. Transfer all foam cushions with hardware to ISS

NOD1P4_C1

3. Remove four (4) foam cushions from CTB 1239 labeled “RCC Plug Repair Hardware”
4. Remove T-bars from cushions 3 and 4 (figure 2) and place them in 2 of the new cushions. Stow new cushions in CTB 1239


Figure 2 – Current on-orbit foam Cushion 3 (Cushion 4 similar)

5. Remove or cut the tape covering the barrel nut stowage cutout on Cushion 1 (figure 3)




Barrel Nut Stowage cutout. Taped over on cushions 1 and 2, open on cushions 3 and 4

Figure 3 – Current on-orbit foam Cushion 1 (Cushion 2 similar)

6. Remove T-bar from Cushion 1 and remove from plastic bag
7. Untape barrel nut and stow it in newly opened cutout in Cushion 1
8. Replace T-bar back in plastic bag and stow in new cushion cutout. Replace new cushion in CTB 1239
9. Repeat steps 5 - 8 for Cushion 2 T-bar

10. From CTB 1239, retrieve one (1) Male Bolt Housing and one (1) Female Bolt Housing, each labeled “OPTIMAL” (figure 4)

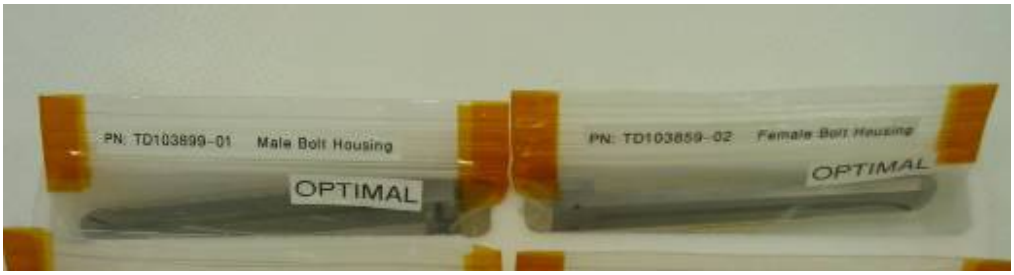



Figure 4 – “OPTIMAL” bolt housings

11. Stow bolt housings in an old cushion T-bar cutouts for return
12. Transfer four (4) old cushions to Shuttle, stow in Middeck Floor Port 2 (Bag A)

**16-0072 (MSG-042) HANDOVER ATTITUDE CONTROL ORBITER TO CMG-ONLY WITHOUT RS SMTC**
Page 1 of 6 pages

OBJECTIVE:
To switch mated stack attitude control responsibility from Orbiter to ISS Control Moment Gyroscopes without RS SMTC computers.

1. GNC COMMAND RESPONSE COUNTERS RESET

PCS MCG: GNC Command Response Counters
GNC Command Response Counters

sel Reset

Verify the Since Reset column values are all blank.

Do not close this window until the procedure is complete.

If while executing a command, the Command Accept counter on that display does not increment
Reselect GNC Command Response Counters to determine if a command was rejected.

√**MCC-H**

2. VERIFYING INITIAL ATTITUDE CONTROL CONFIGURATION – FREE DRIFT

PCS MCG: MCS Configuration
MCS Configuration
'MCS Moding'

Verify US GNC Mode – Drift (UDG)

'MCS ORU Status'

Verify Min ORUs Avail – Yes

'Data Source and Quality'

Verify the following information

| | US Quality |
|---|---|
| Attitude | Valid (Valid RS) (Degraded) |
| Rate | Valid (Valid RS) (Degraded) |
| State Vector | Valid (Valid RS) (Degraded) |

## 3. DETERMINING REQUIRED CCDB INFORMATION

The following information required for attitude control handover will be determined from OSTP or **MCC-H**.

Commanded CMG IG/OG Angles
Record CMG 1 IG/OG Angles, deg: _____ /_____
Record CMG 2 IG/OG Angles, deg: _____ /_____
Record CMG 3 IG/OG Angles, deg: _____ /_____
Record CMG 4 IG/OG Angles, deg: _____ /_____

Record CMG 2 expected IG/OG Current Angle F/W, deg _____ /_____

If this information is not recorded elsewhere, record it below

| | Attitude Hold | Mom Mgmt |
|---|---|---|
| US Take Cntl CCDB ID: | [ X ] | [ Y ] |
| Version ID: | | |
| Cmd Att, deg Y: | | |
| Cmd Att, deg P: | | |
| Cmd Att, deg R: | | |

Record LVLH Rate limit: _____ deg/s

Record Momentum Command for Control: X Axis: _____ N-m-s
Record Momentum Command for Control: Y Axis: _____ N-m-s
Record Momentum Command for Control: Z Axis: _____ N-m-s

4. POSITIONING CMG GIMBALS
   MCG: CMG Configuration: Gimbal Angles
   CMG Gimbal Angles

   If CMG 1(3,4) IG,OG Current Angle S/W, deg and CMG 2 expected
   IG,OG Current Angle F/W, deg are not as recorded in step 3
   Perform {2.207 CMG GIMBAL ANGLE POSITIONING}, all
   (SODF: MCS: NOMINAL: CMGS), then:

5. CHECKING USOS SOLAR ARRAYS ARE CONFIGURED
   If ground is performing
   Coordinate with Phalcon to check that USOS Solar Array Wing configuration is acceptable for the upcoming attitude control configuration.

   If crew is performing

   √**MCC-H**

6. REMOVING INHIBITS TO ENABLE MODING
   MCG: MCS Configuration: MCS Inhibits
   MCS Inhibits

   **cmd** Mode Transition Enable (Verify – Ena)
   **cmd** Attitude Maneuver Enable (Verify – Ena)

   √ Desat Request – Inh
   √ Att Cntl Shutdown – Inh
   √ UDG Shutdown – Inh
   √ Auto Att Control Handover to RS - Inh

   ISS **(MCC-H)** ⇒ Orbiter, “ISS ready for Orbiter rate damping and Free Drift.”

7. PERFORM ORBITER DEADBAND COLLAPSE RATE DAMPING

| **CAUTION** |
| --- |
| The active DAP will be modified in the following steps. Incorrect entries could result in DAP instabilities. |

GNC UNIV PTG
√ ERR TOT – ITEM 23 "*"

√DAP: A/AUTO/VERN

Update DAP to collapse attitude deadbands and reduce rot rate
GNC 20 DAP CONFIG
ITEM 23+0.002 EXEC
ITEM 24+2 EXEC

UNIV PTG

Wait for DAP to stabilize (ATT ERR < 2º/axis), verify with MCC-H.

Update DAP to collapse attitude deadbands again
GNC 20 DAP CONFIG
ITEM 24+1 EXEC

UNIV PTG

Wait for DAP to stabilize (ATT ERR < 1º/axis), verify with MCC-H.

Update DAP to collapse attitude deadbands further
GNC 20 DAP CONFIG
ITEM 24+0.5 EXEC

UNIV PTG

Wait until all axes are within ±0.001 deg/sec of desired rates, verify with **MCC-H**.

√**MCC** for target UNIV PTG rates: Roll _ . _ _ _
Pitch _ . _ _ _
Yaw _ . _ _ _

NOTE:
It may take up to 30 minutes for the rates in all axes to settle at the target rates.

Collapsing the attitude deadbands to lower than 0.5 degrees may be required to achieve the desired rates. The DAPs are stable down to a 0.1 degree attitude deadband. If necessary, **MCC-H** will request additional steps.

When desired rates are achieved in all axes:
DAP: FREE
Orbiter ⇒ **MCC-H** "Orbiter ready for ISS to control the mated stack."

8. RECONFIGURE DAP TO NOMINAL

**MCC-H** ⇒ Orbiter, "ISS is attempting to establish attitude control."

Once ISS has attempted to take attitude control:
Reload nominal DAP A:
GNC 20 DAP CONFIG

ITEM 1+15 EXEC

PCS 9. INITIATING ORBITER TO U.S. ATTITUDE CONTROL HANDOVER

NOTE

1. The following commands in this step should be sent as soon as possible following the Orbiter call that they're ready for ISS control (step 7).

2. If the US Take Control Unconditional command is not sent within 60 seconds of verification of US Take Attitude Control Enable, the US Take Attitude Control parameter will be reset back to Inhibit. In this case, this step would need to be repeated (commanding US Take Attitude Control Enable followed by the US Take Control Unconditional command).

The second command in this step (US Take Control Unconditional) must be sent within 60 seconds of US Take Attitude Control Enable verification.

MCG: MCS Configuration: Off Nominal RS to US
Off Nominal RS to US

**cmd** US Take Att Cntl Enable – (Verify - Ena)

input Attitude Hold US Take Cntl CCDB ID - (from step 3)
input Attitude Hold US Take Cntl Ref Frame - LVLH

**cmd** Initiate Handover - Set

Verify US Take Cntl Cmd Response – Accepted

Verify Active CCDB Source Slot – as commanded
Verify US GNC Mode – CMG Only

10. INITIATING MOMENTUM MANAGEMENT CONTROLLER

MCG: MCS Configuration
MCS Configuration
'CCDB Slots'

For Momentum Management CCDB ID, Slot [Y] from step 3
Sel Make Active [Y]
Make Active [Y]

NOTE
It may require an orbit or more for attitude error and attitude rate transients to stabilize after the Momentum Management CCDB is incorporated.

**cmd** Incorporate
'Active CCDB'
Verify Active CCDB Source Slot – as commanded

If the Momentum Command for Control is to be sent per step 3
MCG: MCS Configuration: Active CCDB
Active CCDB
'Momentum Command for Control'

input X Axis – _____ (from step 3)
input Y Axis – _____ (from step 3)
input Z Axis – _____ (from step 3)

**cmd** Set Momentum

Verify X Axis – as commanded
Verify Y Axis – as commanded
Verify Z Axis – as commanded

ISS (**MCC-H**) ⇒ Orbiter, "ISS has assumed attitude control."
ISS (**MCC-H**) ⇒ **MCC-M**, "ISS has assumed attitude control."

11. REPLACING US GNC INHIBITS TO PREVENT MODING

MCG: MCS Configuration: MCS Inhibits
MCS Inhibits

**cmd** Mode Transition Inhibit (Verify – Inh)
**cmd** Attitude Maneuver Inhibit (Verify – Inh)

**PAO Event Summary Message / Sequence of Voice Calls**
**CBS News / FOX News / WHAM-TV, Rochester, NY**

| | |
|---|---|
| Date: | FD 05, Saturday, October 27, 2007 |
| Start Event: | 04/02:25 MET / 1803 GMT / 1:03 PM CDT / 2:03pm EDT<br>Orbit 65, TDRW |
| Duration: | 20 min. (approx. 6 1/2 min. per media client) |
| Location: | Harmony Node 2 or Destiny Laboratory |
| Participants: | *Flight Crew:* STS-120 Commander Pam Melroy, Pilot George Zamka and Mission Specialists Stephanie Wilson, Doug Wheelock & Clay Anderson, and Expedition 16 Commander Peggy Whitson & Flight Engineer Yuri Malenchenko<br>*Media Clients:* CBS News' Peter King and Bill Harwood; FOX News' Gregg Jarrett; WHAM-TV's Ginny Ryan |
| Anticipated Topics: | 1. Mission objectives completed thus far and remaining key events<br>2. Installation of Harmony Node 2 and its significance towards enabling future ISS expansion<br>3. Wheelock's experiences during his first spacewalk on Oct. 26<br>4. Two female commanders working side-by-side for the first time<br>5. Impressions and feelings of living and working in space<br>6. Anderson's thoughts on returning home after more than four months on the space station |
| Notes: | 1. Event on Shuttle analog Ku-band downlink, with audio on A/G-2 using the BPSMU.<br>2. Check Discovery / Alpha's geographical location before event<br>3. Check correct mic placement for optimal audio.<br>4. **Simultaneous Russian-to-English interpretation will be provided on the ground should Malenchenko wish to reply in Russian.**<br>5. **Please expect a possible audio delay of up to five seconds between your answers, the media's receipt of your answers, and the next question.** |

---

| | |
|---|---|
| Shuttle Capcom: | Discovery / Alpha, this is Houston. Are you ready for the event? |
| Discovery / Alpha: | Houston, this is Discovery / Alpha. We are ready. |
| | ***(after 2 seconds):*** |
| Shuttle Capcom: | CBS News, this is Houston. Please call Discovery / Alpha for a voice check. |
| CBS News: | Discovery / Alpha, this is CBS News. How do you hear me? |

| | |
|---|---|
| Discovery / Alpha: | (reports voice quality. If acceptable,…)<br>We are ready for questions. |
| CBS News: | (conducts Q&A with crew, then...) |
| Houston ACR: | Discovery / Alpha, this is Houston ACR. That concludes the CBS News portion of the event. Please stand by for a voice check from FOX News. |
| FOX News: | Discovery / Alpha, this is FOX News. How do you hear me? |
| Discovery / Alpha: | (reports voice quality. If acceptable,…)<br>We are ready for questions. |
| FOX News: | (conducts Q&A with crew, then….) |
| Houston ACR: | Discovery / Alpha, this is Houston ACR. That concludes the Fox News portion of the event. Please stand by for a voice check from WHAM-TV. |
| WHAM-TV: | Discovery / Alpha, this is WHAM-TV. How do you hear me? |
| Discovery / Alpha: | (reports voice quality. If acceptable,…)<br>We are ready for questions. |
| WHAM-TV: | (conducts Q&A with crew, then….) |
| Houston ACR: | Discovery / Alpha, this is Houston ACR. That concludes the event. |
| Shuttle Capcom: | Thank you, CBS News, FOX News and WHAM-TV. Discovery / Alpha, we are now resuming operational Air-to-Ground communications. |

This procedure will be used if the PGSC Network Cabling Replacement procedure (msg 46) is unsuccessful or if the WinDecom PGSC is not on the network during the FCMS ops.

1. Prior to performing the rescheduled FCMS Ops on PLT, please do the following.

   Insert a PCMCIA card into WinDecom and transfer the following files to the card:

   - C:\spocapps\fcms\fcms.LOG
   - C:\appslib\TLMSERVER.LOG
   - any .zip and .fcv files that are located in C:\spocapps\fcms

2. Perform FCMS Ops at the rescheduled time with the following delta to the procedure:

   - In step 13 on page 6-11 of the Orbit Ops C/L, select NO in the popup window to copy zip data file.

3. After FCMS Ops please do the following.

   Transfer the following file to the PCMCIA card:

   - C:\spocapps\fcms\fcXXXXXX.zip (where XXXXXX is a time stamp)

4. Finally, transfer the card to the KFX machine and copy the files to C:\Oca-down\fcms.

5. Report to MCC when complete.

1
2
3
4

Gather Items per following tables (grouped by activity), which is an excerpt from ISS Message 16-0068: STOWAGE LOCATIONS FOR SATURDAY PLAN (GMT 300, FD05):

| **ND2-VEST-OUTFITTING** | | | | | | |
|---|---|---|---|---|---|---|
| **Vestibule Outfitting VESTIBULE CONFIG FOR INGRESS NOD1 TO NOD2** | | | | | | |
| **Type: Standard** | | | IMS Plan: No | | | |
| # | **LOCATION** | **ITEM NAME** | **P/N** | **S/N** | **B/C** | **Notes** |
| 1 | **NOD1S1**<br>1.0 CTB: NODE 2 Wire Harness/Jumper S/N 1042, B/C 002927J | Secondary 1A4A Pwr Jumper | 1F89713-1 | 001 | 00082012J | Harness # W3001 |
| 2 | | Secondary 2A3B Pwr Jumper | 1F89715-1 | 001 | 00082013J | Harness # W3002 |
| 3 | | Node 2 Vestibule Outfitting Kit | 683-22010-1 | - | - | Large ziplock inside CTB. |
| 4 | | → 1553 Ch B Data Jumper | 683-22012-1<br>683-22014-1<br>683-22016-1<br>683-22018-1 | AA0876704<br>AA0876702<br>AA0876700<br>AA0876698 | 00035217K<br>00035219K<br>00035221K<br>00035223K | Harness # W2012<br>Harness # W2014<br>Harness # W2016<br>Harness # W2018<br>**Note:** all four jumpers were pre-mated during bench review |
| 5 | | → 1553 Ch A Data Jumper | 683-22011-1<br>683-22013-1<br>683-22015-1<br>683-22017-1 | AA0876705<br>AA0876703<br>AA0876701<br>000001 | 00035216K<br>00035218K<br>00035220K<br>00035222K | Harness # W2011<br>Harness # W2013<br>Harness # W2015<br>Harness # W2017<br>**Note:** all four jumpers were pre-mated during bench review |
| 6 | | Instrumentation Jumper W3005 | 1F89721-1 | 001 | 00082015J | Harness # W3005 |
| 7 | | Instrumentation Jumper W3006 | 1F89723-1 | 001 | 00082014J | Harness # W3006 |
| 8 | **NOD1P4_A2**<br>1.0 CTB: MPLM Vest Outfitting Bag S/N b/c 1048, B/C 002933J | IMV Return Duct Jumper | 683-13870-17 | 001002 | 009452J | |
| 9 | **NOD1O4_C1**<br>Ziplock Pantry | 12” x 12” Ziplock | - | - | - | |
| 10 | **Crew Pref** | Towel | - | - | - | |
| 11 | | Mini Maglite | - | - | - | |
| | | | | | | |

| NODE2-INGRESS & S/U | | | | | | |
|---|---|---|---|---|---|---|
| **NODE 2 INGRESS – NODE 2 ON NODE 1 PORT**<br>**NODE 2 VENTILATION DUCT INSTALLATION AND REMOVAL (Referenced procedure)** | | | | | | |
| **Type: Standard** | | | IMS Plan: No | | | |
| # | **LOCATION** | **ITEM NAME** | **P/N** | **S/N** | **B/C** | **Notes** |
| 1 | **LAB1D4_C1** | Grab Sample Container (GSC) | SDD46108778-301 | Crew Pref | Crew Pref | **REPORT** S/N to **MCC-H** |
| 2 | **NOD1O1**<br>3.0 CTB: NODE2 VEST OUTFIT/ALIGN GUIDES/LHAs, S/N 1120, B/C 006777J | PPRV Caps [QTY: 2] | PPRV-1-915 | - | 00083175J<br>00083176J | |
| 3 | **CM1PO_2_208** | CSA-CP | SED46115801-304 | 1057 | 00054281J | Prime |
| 4 | **NOD1S4** | CSA-CP | SED46115801-304 | 1060 | 00054284J | B/U |
| 5 | **Equipment Lock** | CSA-O2 | SED46115801-305 | 1041 or 1052 | 00054319J or 00054330J | Either |
| 6 | **Crew Support Locker in Shuttle** | Crew Preference Hatch Decals | - | - | - | |
| 7 | **LAB1P5_A1** | Velocicalc w probe | 8386A | 99080374 | 00033712J | |
| 8 | **Crew Pref** | DCS 760 | SEZ33113001-302 | Crew Pref | Crew Pref | |
| 9 | | Earplugs [QTY:2] | 28-00-05 | - | - | |
| 10 | **NOD1D1** | 1.0 CTB | Crew Pref | Crew Pref | Crew Pref | **REPORT** S/N and B/C<br><br>Choose any empty 1.0 CTB.<br><br>This bag will be used to store items (restraint bolts, etc.) pulled from Node 2 during outfitting |
| 11 | **Shuttle LiOH Box**<br>(Located on Lid) | Surgical Masks [QTY:2] | 1870 | - | - | Use new mask.<br><br>**DO NOT** use masks from CCPK -- Use masks located with Shuttle LiOH. |
| 12 | **LAB1D4_A1**<br>**Crew Contamination Protection Kit**<br>S/N 1002, B/C CHCCPK02J | Safety Goggles [QTY:2] | 503R | - | - | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 13 | **NODE 1 Staged** | Initial Ingress and DDCU Rack Prep Ziplocks | - | - | - | Resupply Item #123, transferred on FD4.<br><br>One 12x12 ziplock that has 41 individually labelled ziplocks that Dan Tani labeled for the launch restraint bolts from each Node 2 closeout panel. |
| 14 | | →Ziplocks [QTY: 3] | | | | |
| 15 | **LAB1O0** | PMA IMV Flex Duct Extension | 1F94509-1 | - | 002717J | |
| 16 | **NOD2S4** | Flexible Ventilation Duct (13 ft) | 683-51988-1 | 1002 | 00085482J | |
| 17 | **Crew Pref** | Gray Tape | - | - | - | |
| 18 | | Dry Wipes | - | - | - | |
| 19 | **LAB1 Deployed** | Static Wrist Tether | WS-AM6-4MM | - | - | |

| **Type: Restow** | | | IMS Plan: No | | | |
|---|---|---|---|---|---|---|
| 21 | **Return Item # 401.1** | Grab Sample Container (GSC) | SDD46108778-301 | Crew Pref | Crew Pref | **REPORT** S/N to **MCC-H** |
| 22 | **CREW Pref in Node 2** | 1.0 CTB | SEG33111838-305 | Crew Pref | Crew Pref | **REPORT** S/N and B/C<br>**REPORT** Temp Stow Location |
| 23 | | → Ziplock Bag [QTY: 3] | - | - | - | Each ziplock contains a closeout from Node 2 and associated launch restraints. |
| 24 | **Temp Stow** | Surgical Masks [QTY:2] | 1870 | - | - | **Peggy's Mask** - Temp Stow for FD7 ND2 – AV Rack – Outfit Activity.<br>**Nespoli's Mask** - Temp Stow for LiOH changeout. |

There are indications that tell us that your PSGC network problems may be caused by bad network cables or equipment. The quickest solution is to replace all network cables, connectors and terminators. In order to do so, you'll have to use some PGSC equipment that is on the ISS. This procedure guides you through the process. Part 1 should be completed prior to OBSS Handoff ops (this will keep Part 2 from interfering with the OBSS ops which will use WinDecom, RPOP, and RPOP2 machines for RSAD and DOUG). Part 2 can occur concurrently with the OBSS handoff.

Part 3 adds the WinDecom, RPOP, and RPOP2 machines to the network after the OBSS ops are complete (when DOUG and RSAD are no longer required).

Equipment Needed:

From Shuttle:
(3) 3' Ethernet Cables - Location: ML60E (2) and ML60J (1)
(2) 25' Ethernet Cables - Location: ML60E (2)
(3) Ethernet T-Connectors - Location: ML60E (2) and ML60J (1)
(2) BNC Straight Adapters - Location: ML60E (2)
(1) Ethernet Terminator - Location: Ethernet T-connector at the OCA Router

From Station: (ask Clay if you have trouble finding this equipment)
(2) 3' Ethernet Cables - Location: Russian bag (Мешок) in NOD1D4_K2
(3) Ethernet T-Connectors - Location: Russian bag (Мешок) in NOD1D4_K2
(1) Ethernet Terminator - Location: Russian bag (Мешок) in NOD1D4_K2

**PGSC NETWORK CABLING REPLACEMENT, PART 1**

Remove the RF Cards from WinDecom and RPOP2 machines, and remove the 3Com card from the RPOP machine.

**PGSC NETWORK CABLING REPLACEMENT, PART 2**

1. Remove the 3Com cards from the OCA Router, KFX, and WLES machines.

2. Replace the entire PGSC ethernet hardline cabling all the way from the KFX machine to the WLES machine. Replace the cables, terminators, BNC straight adaptors, and T-connectors. Make sure all connections are fully engaged and locked before moving on to the next piece of cabling.

3. Re-insert the 3Com ethernet cards into the OCA Router, KFX, and WLES machines only.

4. Ping the network from either the KFX or WLES machine and report the results to MCC (should see OCA Router, Access Point, Printer, KFX, and WLES on the network at this time).

5. If ping unsuccessful, reboot the OCA Router, KFX, and WLES machines and repeat Step 4.

**PGSC NETWORK CABLING REPLACEMENT, PART 3**

1. Re-insert the RF cards into the WinDecom and RPOP2 machines, and re-insert the 3Com card into the RPOP machine.

2. Ping the network from any PGSC and report the results to MCC (should see the entire network).

3. If ping unsuccessful, reboot troubled PGSCs and repeat Step 2.