STS-119 / 15A

FD 10 Execute Package

MSG	Page(s)	Title
104B	1 - 15	FD10 Flight Plan Revision **(pdf)**
105	16 - 17	FD10 Mission Summary **(pdf)**
106	18 - 19	FD10 Transfer Message **(pdf)**
107	---	FD09 MMT Summary **(pdf - Electronic Only)**
108	---	FD10 PAO Event Summary **(pdf - Electronic Only)**
109	20	FD10 EVA Deltas **(pdf)**
110	21 - 25	Post EVA EMU Reconfig & Transfer **(pdf)**
111	26 - 27	LiOH Cue Card **(pdf)**
112	---	FD10 PAO Event Summary Message - Crew News Conference **(pdf - Electronic Only)**
113A	---	Stowage Locations for FD10 **(pdf - Electronic Only)**

Approved by FAO: *M. Blanton*

Last Updated: Mar 24 2009 9:03AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

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MSG INDEX

MSG NO.	TITLE
MSG104	FD10 Flight Plan Revision
MSG105	FD10 Mission Summary
MSG106	FD10 Transfer Message (18-1353)
MSG107	FD09 MMT Summary
MSG108	FD10 PAO Event Summary (18-1354)
MSG109	FD10 EVA Deltas (18-1355)
MSG110	Post EVA EMU Reconfig & Transfer (18-1356)
MSG111	LiOH Cue Card
MSG112	FD10 PAO Event Summary Message - Crew News Conference (18-1357)
MSG113	Stowage Locations for FD10 (18-1208A)

1. Cryo Config

For today's cryo config, O2 Tanks 1, 3 & 4 and H2 Tanks 1 & 5 will be active.

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

A11 CRYO TK4 HTR O2 A - AUTO

A15 CRYO TK5 HTR O2 A - OFF

2. LiOH Cue Card

MSG 111 is your new LiOH Changeout Cue Card. Use this card starting on the evening of FD10. A new cue card is required due to the change in hatch closure and undocking times.

3. N2 Repress

The N2 repress scheduled today is currently planned to be terminated on FD11. However, if the repress rate is faster than expected, MCC may make a real-time call to terminate the repress prior to crew sleep tonight.

4. OCA 48 Mbps/DTV MUX Test

During FN 10, INCO would like to verify that 48 Mbps OCA will work while the DTV MUX is powered OFF. We have scheduled an activity for MS2 just before presleep. This has no impact on OCA operations overnight; if OCA does not work through Shuttle assets, it can be alternately downlinked through ISS. If this functionality is verified it will save cryo, and it will be valuable for future flights (specifically, STS-125).

5. EVA

Swanny, Ricky and Joe, we have uplinked some deltas to today's EVA procedures in MSG 109 (18-1355) FD10 EVA Deltas and MSG 110 (18-1356) Post EMU Reconfig and Transfer.

6. REPLACE PAGES 2-32, 2-34, 2-36 AND 3-102 THROUGH 3-111.

03/24/09 02:33:51 **REPLANNED**

GMT 03/23/09 (082) 03/24 01 02 03 04 05 06 07 08 09 10 11

MET Day 008 008/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-119	**FD09** **R2** CDR ARCHAMBAULT	PRE SLEEP; EVA TAGUP; PMC A/G; PRE SLEEP	SLEEP	POST SLEEP
	R1 PLT ANTONELLI	♣; PRE SLEEP	SLEEP	LOG; POST SLEEP
	EV3 MS1 ACABA	⊕; MUS; PRE SLEEP	SLEEP; ISS EXTERNAL SURVEYS	ASPRN; POST SLEEP
	IV MS2 SWANSON	PRE SLEEP; ILL-1; CREW*; PRE SLEEP	SLEEP	POST SLEEP
	EV2 MS3 ARNOLD	♦; PRE SLEEP; TAGUP; PRE SLEEP	SLEEP	ASPRN; POST SLEEP
	M1 MS4 PHILLIPS	MDUKS#; PRE SLEEP	SLEEP	LOG; SLVA; POST SLEEP
DN	FE-2 MAGNUS	P SLP; DPC; ARED; PRE SLEEP	SLEEP	PHOTO; POST SLEEP
EXP-18	ISS CDR FINCKE	♣; P SLP; DPC; EVADL; PRE SLEEP	SLEEP	SLVA; POST SLEEP
	FE-1 LONCHAKOV	P SLP; DPC; PRE SLEEP; МБИ	SLEEP	МБИ; POST SLEEP
UP	**M2** FE-2 EXP18 WAKATA	P SLP; DPC; PRE SLEEP	SLEEP	POST SLEEP

DAY/NIGHT

ORBIT 127 128 129 130 131 132 133 134 135

TDRS W E Z

TDRS ISS AVAIL

ORB ATT BIAS -XLV -ZVV

NOTES
♣POST EVA W/H2O *CHOICE D/L
⊕POST EVA W/H2O
♦POST EVA W/H2O
#STATUS CK

3

03/24/09 02:33:51 **REPLANNED**

GMT 03/24/09 (083) — 12 13 14 15 16 17 18 19 20 21 22 23 009/00

MET Day 008

STS-119	**FD10** CDR ARCHAMBAULT	POST SLEEP; CWC INIT 10; POST SLEEP; N2-I; TMU; CWC TERM; PAO D/L OPP; CWC INIT 11; O2 P/B TEARDOWN; CWC TERM; MEAL; CREW CONF; CREW PHOTO; OFF DUTY; PFC OCA; OFF DUTY; BLED; ARED	
	PLT ANTONELLI	POST SLEEP; ILL-O; PAO D/L OPP; MCIU@; EXERCISE; MEAL; CREW CONF; CREW PHOTO; OFF DUTY; CWC XFER; PRE SLEEP; CREW* ♣	
	MS1 ACABA	POST SLEEP; GRS; GUN; CLNUP; PAO D/L OPP; POST EVA RCNFG/XFER; MEAL; CREW CONF; CREW PHOTO; OFF DUTY; PFC OCA; OFF DUTY; EXERCISE; MUS	
	MS2 SWANSON	POST SLEEP; PAO D/L OPP; POST EVA RCNFG/XFER; MEAL; CREW CONF; CREW PHOTO; OFF DUTY; PRE SLEEP; EXER CISE	
	MS3 ARNOLD	POST SLEEP; EXERCISE; POST SLEEP; PAO D/L OPP; XFER OPS; POST EVA RCNFG/XFER; MEAL; CREW CONF; CREW PHOTO; OFF DUTY; PRE SLEEP; PFC OCA; PRE SLEEP	
	MS4 PHILLIPS	POST SLEEP; EXERCISE; POST SLEEP; MDK*; XFR UPDAT; PAO D/L OPP; XFER OPS; MEAL; CREW CONF; CREW PHOTO; OFF DUTY; XFER; BRIEF; MDUS; MDK@; PRE SLEEP	
DN	FE-2 MAGNUS	PREP WORK; DPC; TVIS; SETUP; PAO D/L OPP; SETUP; PMC; MIDDAY-MEAL; CREW CONF; CREW PHOTO; OFF DUTY; CO2; ARED; PREP; WORK; DPC; PREP WORK	
EXP-18	ISS CDR FINCKE	PREP WORK; DPC; HANDOVER; PAO D/L OPP; O2 P/B TEARDOWN; ⊕; PBA; CAMR; DEACT; MIDDAY-MEAL; CREW CONF; CREW PHOTO; OFF DUTY; TVIS; ARED; OFF DUTY; PREP; WORK; DPC; PREP WORK	
	FE-1 LONCHAKOV	PREP WORK; DPC; МБИ; ИП-1; MNT; TEX; PAO D/L OPP; CPBK; CPBK; EXERCISE TVIS; CBO; MIDDAY-MEAL; CREW CONF; CREW PHOTO; ГПЭ; CBO; СОЖ MNT; PMC; EXERCISE TVIS; PREP; WORK; DPC; PREP WORK	
UP	FE-2 EXP18 WAKATA	PREP WORK; DPC; HANDOVER; PAO D/L OPP; PMC; ♦; ⊕; ®; CO2; MIDDAY-MEAL; CREW CONF; CREW PHOTO; OFF DUTY; TVIS; OFF DUTY; PREP; WORK; DPC; PREP WORK	

DAY/NIGHT

ORBIT: 135 136 137 138 139 140 141 142 143

TDRS W E Z

TDRS ISS AVAIL

ORB ATT: BIAS -XLV -ZVV

NOTES

@FILTER CK
*STATUS CK
⊕SPACE POEM-PHOTO
♦SPACE POEM-CAMERA-SU
®SPACE POEM-CLSOUT
♣PRE SLEEP
*CHOICE D/L
@STATUS CK

FLT PLN/119/FLIGHT

4

03/24/09 02:33:51 **REPLANNED**

GMT 03/24/09 (083) 03/25 01 02 03 04 05 06 07 08 09 10 11

MET Day 009 009/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-119	**FD10** CDR ARCHAMBAULT	POD* / PRE SLEEP / PMC A/G / PRE SLEEP	SLEEP / POST SLEEP
STS-119	PLT ANTONELLI	PRE SLEEP	SLEEP / LOG / POST SLEEP
STS-119	MS1 ACABA	PRE SLEEP	SLEEP / POST SLEEP
STS-119	MS2 SWANSON	EXER CISE / OCA% / PRE SLEEP	SLEEP / POST SLEEP
STS-119	MS3 ARNOLD	PRE SLEEP	SLEEP / POST SLEEP
STS-119	MS4 PHILLIPS	PRE SLEEP	SLEEP / LOG / POST SLEEP
DN	FE-2 MAGNUS	PRE SLEEP-ISS	SLEEP / SLVA / POST SLEEP
EXP-18	ISS CDR FINCKE	PRE SLEEP-ISS	SLEEP / PS / ПЗЭ / POST SLEEP
EXP-18	FE-1 LONCHAKOV	PRE SLEEP-ISS	SLEEP / ПЗЭ / POST SLEEP / ПЗЭ / POST SLEEP / MO / POST SLEEP
UP	FE-2 EXP18 WAKATA	PRE SLEEP-ISS	SLEEP / POST SLEEP / ПЗЭ MO 8 / POST SLEEP

DAY/NIGHT

ORBIT 143 144 145 146 147 148 149 150

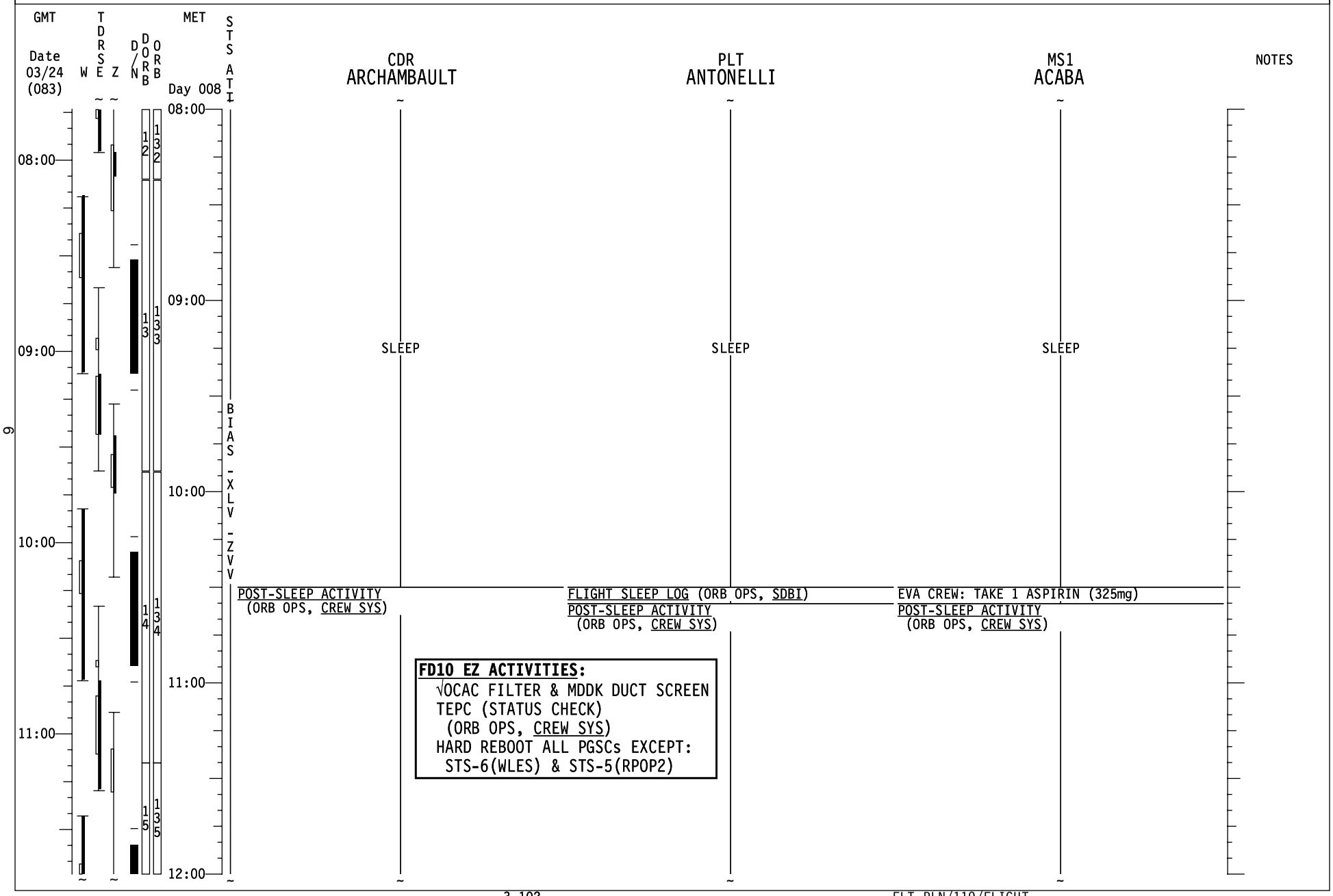
TDRS W E Z

TDRS ISS AVAIL

ORB ATT BIAS -XLV -ZVV

NOTES
*A POD HTR RECONFIG
%RATE RECONFIG

STS-119 FD (10)


GMT
Date 03/24 (083)
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08:00
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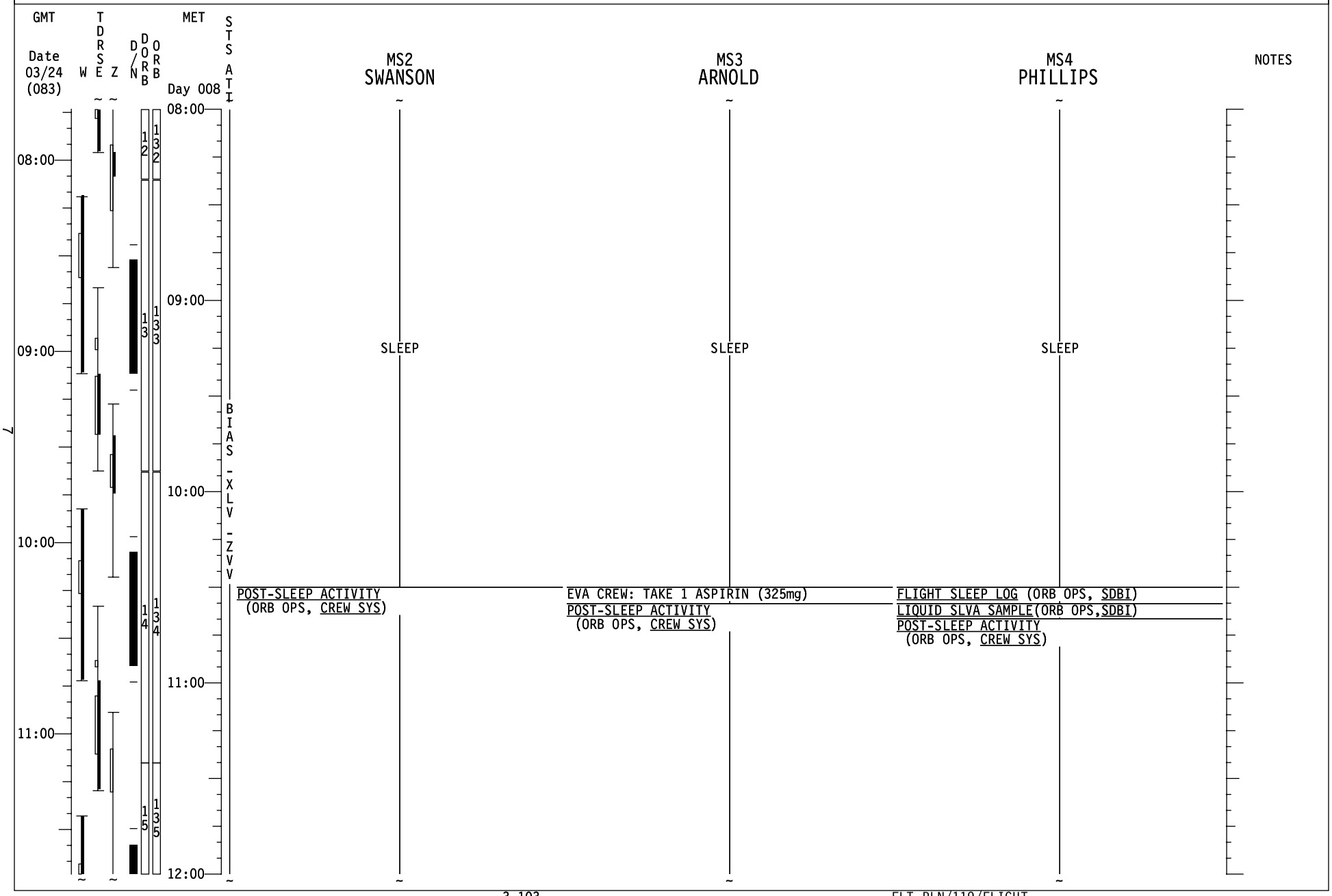
132
133
134
135
BIAS-XLV-ZVV
CDR ARCHAMBAULT
PLT ANTONELLI
MS1 ACABA
NOTES
SLEEP
SLEEP
SLEEP
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
FLIGHT SLEEP LOG (ORB OPS, SDBI)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
EVA CREW: TAKE 1 ASPIRIN (325mg)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
FD10 EZ ACTIVITIES:
√OCAC FILTER & MDDK DUCT SCREEN
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES) & STS-5(RPOP2)

STS-119 FD (10)


GMT
Date 03/24 (083)
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08:00
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11:00
12:00
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132
133
134
135
BIAS-XLV-ZVV
MS2 SWANSON
MS3 ARNOLD
MS4 PHILLIPS
NOTES
SLEEP
SLEEP
SLEEP
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
EVA CREW: TAKE 1 ASPIRIN (325mg)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
FLIGHT SLEEP LOG (ORB OPS, SDBI)
LIQUID SLVA SAMPLE(ORB OPS,SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-119 FD (10)

GMT Date 03/24 (083) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 008 | STS ATI

CDR ARCHAMBAULT

- 12:00 POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Init Fill #10 Ref MSG 079
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- N2 RPRS USING P/L N2 VLV (ORB OPS, ECLS) Perform REPRESS SETUP AND INIT Steps 1, 3-7, MCC will TMBU S/W FDA
- IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
- SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Perform FILL TERMINATION
- PUBLIC AFFAIRS EVENT ISS KU AVAIL (PRIME) STS KU AVAIL (BACKUP) Ref. MSG 108
- SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Init Fill #11 Ref MSG 079
- JOINT OPS: 3.122 PREBREATHE USING SHUTTLE O2 TEARDOWN Steps 2-7 Ground will perform steps 2.4 & 5.5
- SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Perform FILL TERMINATION

PLT ANTONELLI

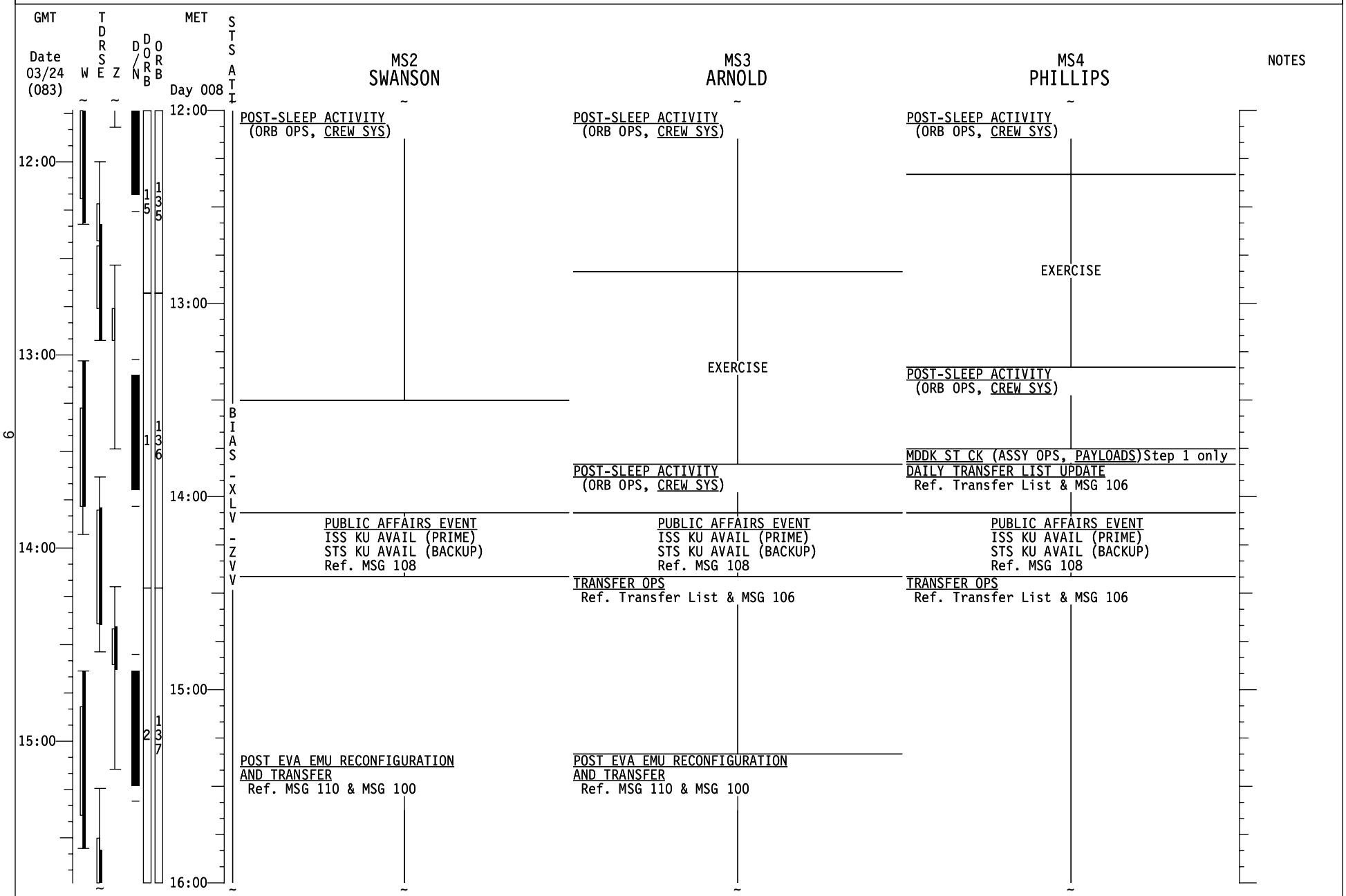
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- TV (ILLUMINATOR OPS) (PHOTO/TV, CC) ILLUMINATORS OFF - ALL
- PUBLIC AFFAIRS EVENT ISS KU AVAIL (PRIME) STS KU AVAIL (BACKUP) Ref. MSG 108
- L17 Check MCIU filter screen
- EXERCISE

MS1 ACABA

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- 15A GREASE GUN CLEANUP (EVA, Tools & Stowage) pg. FS 8-18 Ref. MSG 109 & Ref. Transfer List: Return Item 720
- PUBLIC AFFAIRS EVENT ISS KU AVAIL (PRIME) STS KU AVAIL (BACKUP) Ref. MSG 108
- POST EVA EMU RECONFIGURATION AND TRANSFER Ref. MSG 110 & MSG 100

NOTES

STS-119 FD (10)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135
1
136
2
137
BIAS-XLV-ZVV
MS2 SWANSON
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PUBLIC AFFAIRS EVENT
ISS KU AVAIL (PRIME)
STS KU AVAIL (BACKUP)
Ref. MSG 108
POST EVA EMU RECONFIGURATION AND TRANSFER
Ref. MSG 110 & MSG 100
MS3 ARNOLD
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
EXERCISE
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PUBLIC AFFAIRS EVENT
ISS KU AVAIL (PRIME)
STS KU AVAIL (BACKUP)
Ref. MSG 108
TRANSFER OPS
Ref. Transfer List & MSG 106
POST EVA EMU RECONFIGURATION AND TRANSFER
Ref. MSG 110 & MSG 100
MS4 PHILLIPS
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
EXERCISE
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
MDDK ST CK (ASSY OPS, PAYLOADS)Step 1 only
DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG 106
PUBLIC AFFAIRS EVENT
ISS KU AVAIL (PRIME)
STS KU AVAIL (BACKUP)
Ref. MSG 108
TRANSFER OPS
Ref. Transfer List & MSG 106
NOTES

STS-119 FD (10)

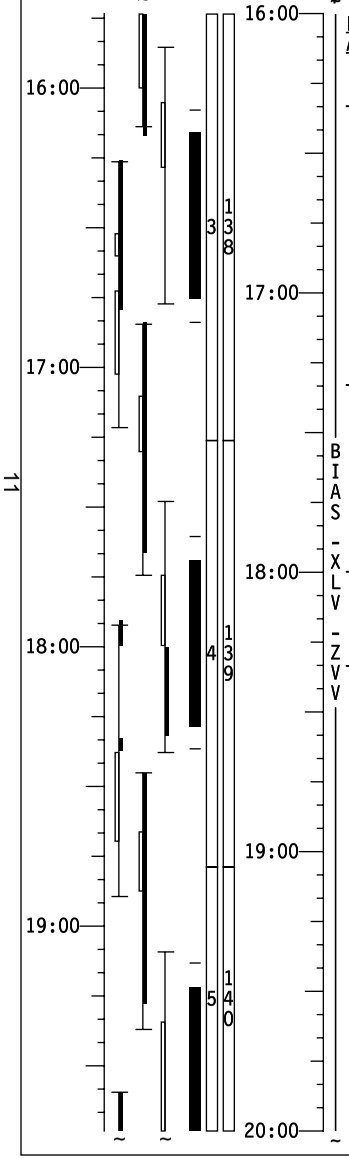
GMT Date 03/24 (083) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 008 | STS ATI

	CDR ARCHAMBAULT	PLT ANTONELLI	MS1 ACABA	NOTES
16:00–17:00	MEAL	EXERCISE MEAL	POST EVA EMU RECONFIGURATION AND TRANSFER Ref. MSG 110 & MSG 100 MEAL	
17:00–18:00	CREW CONFERENCE ISS KU AVAIL Ref. MSG 112	CREW CONFERENCE ISS KU AVAIL Ref. MSG 112	CREW CONFERENCE ISS KU AVAIL Ref. MSG 112	
18:00–19:00	CREW PHOTO	CREW PHOTO	CREW PHOTO	
19:00–20:00	OFF DUTY	OFF DUTY	OFF DUTY	

BIAS-XLV-ZVV

STS-119 FD (10)

GMT Date 03/24 (083) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 008 | STS ATT



MS2 SWANSON	MS3 ARNOLD	MS4 PHILLIPS	NOTES
POST EVA EMU RECONFIGURATION AND TRANSFER Ref. MSG 110 & MSG 100	POST EVA EMU RECONFIGURATION AND TRANSFER Ref. MSG 110 & MSG 100	TRANSFER OPS Ref. Transfer List & MSG 106	
MEAL	MEAL	MEAL	
CREW CONFERENCE ISS KU AVAIL Ref. MSG 112	CREW CONFERENCE ISS KU AVAIL Ref. MSG 112	CREW CONFERENCE ISS KU AVAIL Ref. MSG 112	
CREW PHOTO	CREW PHOTO	CREW PHOTO	
OFF DUTY	OFF DUTY	OFF DUTY	

STS-119 FD (10)

GMT Date 03/24 (083) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 008 | STS ATT

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

5 | 6 | 7 | 8

140 | 141 | 142 | 143

BIAS-XLV-ZVV

CDR ARCHAMBAULT

OFF DUTY

NETMEETING VIDEO CONFERENCING
(ORB OPS, PGSC) Private Family Conference
Omit Steps 1.2 &3. KU TDRW (21:42-22:16)

OFF DUTY

M069M LEH 02 8 vlv - OP

EXERCISE
ARED AVAILABLE FOR USE

PLT ANTONELLI

OFF DUTY

CWC TRANSFER
Transfer 2 CWC to ISS

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PLAYBACK OPERATIONS (CREW CHOICE)
(P/TV, CC) KU TDRW (23:23-23:53)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS1 ACABA

OFF DUTY

NETMEETING VIDEO CONFERENCING
(ORB OPS, PGSC) Private Family Conference
Omit Steps 1.2 &3. KU TDRW (20:19-20:37)

OFF DUTY

EXERCISE

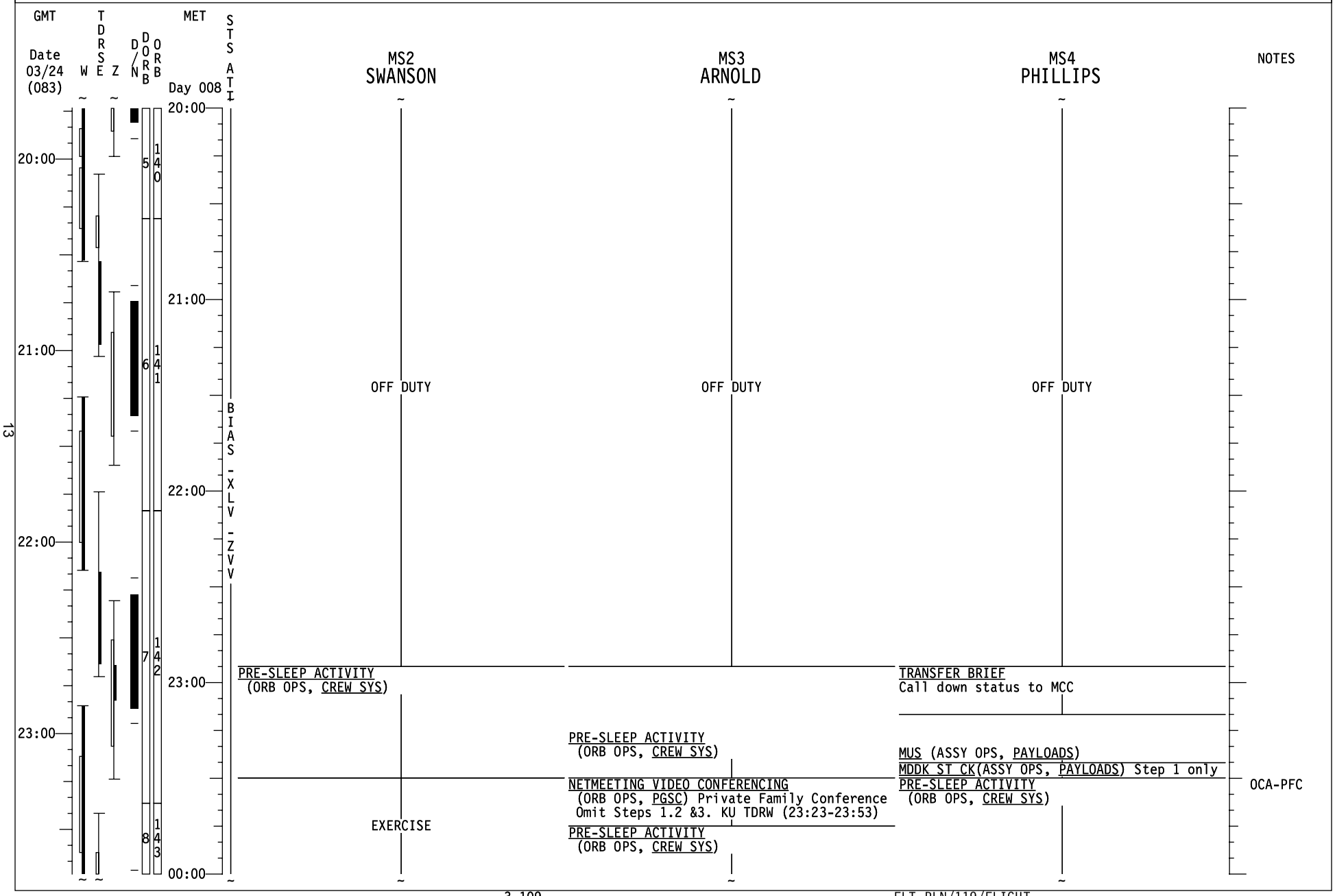
MUS (ASSY OPS, PAYLOADS)

NOTES

OCA-PFC

OCA-PFC

STS-119 FD (10)


GMT
Date 03/24 (083)
W
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ORB
MET
Day 008
STS ATI
MS2 SWANSON
MS3 ARNOLD
MS4 PHILLIPS
NOTES
20:00
21:00
22:00
23:00
00:00
5
6
7
8
140
141
142
143
BIAS-XLV-ZVV
OFF DUTY
OFF DUTY
OFF DUTY
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
TRANSFER BRIEF
Call down status to MCC
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
MUS (ASSY OPS, PAYLOADS)
MDDK ST CK(ASSY OPS, PAYLOADS) Step 1 only
NETMEETING VIDEO CONFERENCING
(ORB OPS, PGSC) Private Family Conference
Omit Steps 1.2 &3. KU TDRW (23:23-23:53)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
OCA-PFC
EXERCISE
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-119 FD (10)

GMT Date 03/24 (083) | W | TDRS E | Z | D/N | DORB 8 9 10 | ORB 143 144 145 | MET Day 009 | STS ATT BIAS -XLV -ZVV

CDR ARCHAMBAULT | PLT ANTONELLI | MS1 ACABA | NOTES

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

RCS/OMS POD HTR RECONFIG A
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRIVATE MEDICAL CONFERENCE

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

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

CREW WAKE at 09/10:30

SLEEP | SLEEP | SLEEP

STS-119 FD (10)

GMT Date 03/24 (083) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 009 | STS ATT

MS2 SWANSON | MS3 ARNOLD | MS4 PHILLIPS | NOTES

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

D/N: 8, 9, 10

DORB: 143, 144, 145

EXERCISE

RECONFIGURE OCA DOWNLINK RATE [B]
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

[B] PERFORM AFTER CREW CHOICE DL
L10(MUX)MUX/VTR/CC PWR-ON(LED ON)
RECONFIGURE OCA DOWNLINK RATE
(ORB OPS,PGSC)
Perform Part C, OMIT STEP 4
L10(MUX)MUX/VTR/CC PWR-OFF(LED OFF)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

BIAS-XLV-ZVV

CREW WAKE at 09/10:30

SLEEP | SLEEP | SLEEP

Good Morning Discovery!

Enjoy your off duty time today!

YOUR CURRENT ORBIT IS: 197 X 186 NM

NOTAMS:

NOTAMS – TWO DELETIONS

EDW -	EDW IN USE. EDT ELS DAY / VFR ONLY.
EDW -	LAKEBED RUNWAYS RED - WET.
NOR -	LAKEBED RUNWAYS GREEN.
ILM -	DME DIW107 OTS
FMH -	TACAN PVD103 DME ONLY.
DOV -	RWY 14/32 CLOSED.
MRN -	TACAN AOG23 OTS.
WAK -	TACAN AWK82 OTS.
HAW -	TACAN ASI59 DME OTS.
IKF -	NOT USABLE. NO AGREEMENT.
BEN -	NOT RECOMMENDED/NOT SUPPORTED.

NEXT 2 PLS OPPORTUNITIES:

EDW04 ORB 141 – 8/21:24 SKC 7 040/8P12
EDW22 ORB 157 – 9/21:51 SKC 7 240/8P13

OMS TANK FAIL CAPABILITY:

L OMS FAILS: NO
R OMS FAILS: NO

LEAKING OMS PRPLT BURN:

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

OMS QUANTITIES(%)

L OMS OX = 36.1 R OMS OX = 35.8
FU = 35.6 FU = 35.8
Subtract interconnect counter for current OMS quantities.

DELTA V AVAILABLE:

OMS	371 FPS
ARCS (TOTAL ABOVE QTY1)	47 FPS
TOTAL IN THE AFT	418 FPS
ARCS (TOTAL ABOVE QTY2)	81 FPS
FRCS (ABOVE QTY 1)	21 FPS
AFT QTY 1	78 %
AFT QTY 2	40 %

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

END OF PAGE 2 OF 2, MSG 105

John & Ricky,

Two more days of transfer to go! You seem to have a great handle on all the items left to accomplish, so enjoy your day and we look forward to tagging up with you later.

The Transfer List Excel file, FD10_Transfer_List_STS119.xls, locations are:

- Shuttle: **C:\OCA-up\transfer** (KFX machine)
- Station: **K:\OCA-up\transfer**

<u>FD10 Transfer Choreography</u>

- Return Item 720: Transfer EVA wipes per Grease Gun Cleanup activity
- Continue with Resupply Item 804 and the new resupply items 805 thru 808.
- Continue with return transfers

Please incorporate uplink pages as follows (we've listed the updates in the order they printed out for you):

In the Transfer List **RESUPPLY** tab
Add the following page:
Resupply 17

In the Transfer List **RETURN** tab
Pen & Ink on the following page:
Return 9 - Item 727: strike through note "**This sample will be read on the shuttle post-undocking."

Add the following page:
Return 13

Changes to the Transfer List are detailed below:

<u>RESUPPLY</u>
Item 805 - new item
Item 806 - new item
Item 807 - new item
Item 808 - new item

<u>RETURN</u>
Item 727 – updated notes
Item 913 – new item

<u>FD11 Transfer Choreography</u>

- Resupply Item 28: Transfer o-rings for hatch closure activity
- Resupply Item 805: Transfer RPOP2 laptop to ISS
- Return Items 412 & 701 thru 704: Transfer Bags B, C, D, E & F to the middeck
- Joe, Swanny & Ricky: Return Items 705, 718 & 719: Transfer EMUs and Bag I to the middeck per POST EVA RECONFIG/TRANSFER activity
- Koichi: Return Item 713: Transfer WRS & PWD samples per WPA-SAMPLE-COLLECT activity
- Mike: Return Items 716 & 717: Transfer Double Cold Bags to the middeck per DCB TRANSFER activity
- John: Return Item 723: Transfer Blood samples per BLOOD KIT STOW activity
- Sandy: Return Item 901: Transfer Saliva Kits per SALIVA KIT STOW activity
- Mike: Return Item 727: Transfer MCD per EHS-WATER-T+2 activity – if growth is seen
- Koichi: Return Item 903: Transfer Post-Flight Analysis Packet per WRS-PWD SMPL-CLCT activity

Have a great day and let us know if you have any questions!

- The 15A Transfer Team

FD10 EVA Deltas

Great job on EVA 3! You're almost ready to come home, but before you do, we have a few more tasks for you.

Post EVA EMU Reconfig and Transfer

Please use MSG 110 (18-1356). This procedure replaces POST EVA EMU RECONFIG AND TRANSFER (FS2-15 in FDF). The new procedure includes a verification section for transfer items that John will stow in the Airlock floor bag (reference Msg 100 from FD09 Execute Pack). We have divided the execution of the Post EVA Reconfig & Transfer procedure over two days. We have scheduled 1 hour on FD10, then you can finish the remainder the morning of FD11 (1.5 hours).

Grease Gun Cleanup

Please add the MATERIAL locations for the 15A GREASE GUN CLEANUP procedure (Page FS 8-18)

MATERIALS:
Dry towel (Crew pref or PMA1 0.5 CTB S/N 1196)
Ziplock bags (MF43H)

Airlock Restow

We are still working on the tool re-stow matrix, but if you have time, you can begin tidying up the airlock. Please start with returning the tethers to the tether staging area. If you come across any tools not in bags, please put them in the Done Tools mesh bag. Just let us know what items you put in there.

POST EVA EMU RECONFIG AND TRANSFER (90 min)

This procedure cleans up ISS EMU 3005 (Ac) and EMU 3006 (An) and configures EMU 3004 for Arnold's return EMU (leaving his Shuttle EMU 3006 and helmet on ISS). This procedure also verifies Transfer List items stowed in A/L Floor Bag.

EMU 3005, 3006

1. Disconnect Helmet from HUT, temp stow
   Disconnect Comm Cap, stow in Airlock Floor Bag
   √DIDB Restraint Bag in HUT

2. Install helmet
   √Helmet locked, sun shades down and visor up; install helmet cover

3. Remove Wrist Mirrors (4); temp stow in Airlock Floor Bag

4. Remove Cuff C/L and install lower arm covers (covers for 3005 in Ac ECOK and covers for 3006 from EMU 3004)
   If desired, remove crew notes pages and stow pages in appropriate ECOK
   Stow Cuff C/L in Airlock Floor Bag

5. Remove mission patch, US flag and stripes (DCM/PLSS/LTA)
   Stow in appropriate ECOK

6. Stow Ac LCVG, Ac ECOK, and Ac gloves in Airlock Floor Bag

7. Gather EMU crew-specific items and place in appropriate ECOK

8. Temp stow An items (LCVG, ECOK, gloves) for install on EMU 3004

DCM

9. √PWR – SCU
   √PURGE vlv – op (up)
   √O2 ACT – OFF
   √WATER – OFF, switch guard installed

EMU 3005

10. Connect waist ring to HUT [LTA s/n 2084 (bladder s/n 002)]; √Locked

11. Remove EMU 3005 from fwd EDDA
    Temp stow EMU 3005 in Node 1

<u>CONFIGURE ARNOLD'S EMU FOR RETURN</u>

EMU 3004

12. Install EMU 3004 in fwd EDDA
    Remove LTA Restraint Bag and temp stow

13. Install An 1 gloves; √Locked

14. Remove LTA s/n 2076 (bladder 045), install on EMU 3006

15. Stow An ECOK and LCVG in HUT
    Install An LTA s/n 2081 (bladder s/n 018); √Locked

16. Unzip rear PLSS TMG, remove vent port plugs; stow in EMU Equipment Bag (Danny Bag) front pocket
    Install expended LiOH canister s/n 2015 from Airlock Floor Bag and EMU battery s/n 2075 from M-02 s/n 1038, 0.5 CTB s/n 1205

17. Retrieve LTA Restraint Strap and Bag
    Remove EMU 3004 from fwd EDDA
    Perform LTA Restraint Strap and Bag installation
    Temp stow EMU 3004 in Node 1

<u>CONFIGURE SWANSON'S EMU FOR RETURN</u>

EMU 3017

18. Install in fwd EDDA as necessary
    If necessary, remove LTA Restraint Bag and temp stow

19. Unzip rear PLSS TMG, if present remove vent port plugs; stow in EMU Equipment Bag (Danny Bag) front pocket ;
    install expended LiOH canister s/n 2014 from Airlock Floor Bag and EMU battery s/n 2074 from M-02 s/n 1038, 0.5 CTB s/n 1205

20. Retrieve LTA Restraint Strap and Bag
    Remove EMU 3017 from fwd EDDA
    Perform LTA Restraint Strap and Bag installation
    Temp stow EMU 3017 in Node 1

<u>AIRLOCK CLEANUP</u>

21. Install EMU 3005 in fwd EDDA

22. Inspect and compare all on-orbit EMU wrist mirrors (10) – 6 in Airlock Floor Bag, 4 in EMU Equipment Bag (Danny Bag) rear pocket
    Stow best quality wrist mirrors (6) in EMU Equipment Bag (Danny Bag) rear pocket
    Stow remaining wrist mirrors (4) in Airlock Floor Bag
    Report serial numbers and final stowage locations to **MCC-H**

23. IVA Socket stow
    23.1 Retrieve small Ziplock bag.
    23.2 Label bag: "15A EVA 3 – ¾" Deepwell Socket, 3/8" Drive"
    23.3 Place ¾" Deepwell Socket from Crewlock Bag #3 in Ziplock bag
    23.4 Stow ziplock bag w/ socket in 0.5 CTB s/n 1137 (Broken/Expired Items #2) found at NOD1O4_E2.

24. √Used EV undergarments (TCUs, socks, wristlets, comfort gloves) stowed for return on Shuttle

25. Stow following in Airlock Floor Bag:
    - ☐ Transfer to Shuttle mesh bag
    - ☐ 85-ft Safety Tethers – 2 (s/n 1001, 1005)
    - ☐ EMU Servicing Kit (s/n 5005)

26. Verify the following transfers from the A/L floor bag are complete:

Verify	Item	Expected Stowage Location
☐	Crewlock Bag	A/L Endcone
☐	8 connector sleeves	Done mesh bag
☐	2 adjustable tethers	Tether staging area
☐	6 gap spanners	2 in Done mesh bag
		4 ISS External

TRANSFER ITEMS

27. Verify all items for Shuttle transfer per table:

EMU 3004 (An)	**EMU 3017 (Sw)**
☐ DIDB Restraint Bag ☐ An ECOK ☐ An LCVG ☐ Helmet s/n 1069 ☐ EMU Gloves (An 1) ☐ EMU Battery (s/n 2075) ☐ CCC (LiOH) (s/n 2015) ☐ LTA s/n 2081 (bladder s/n 018) ☐ LTA Restraint and Strap	☐ EMU Battery (s/n 2074) ☐ CCC (LiOH) (s/n 2014) ☐ LTA Restraint and Strap Items already verified in EMU Swap: ☑ DIDB Restraint Bag ☑ Sw ECOK ☑ Sw LCVG ☑ Helmet s/n 1071 ☑ EMU Gloves (Sw 1) ☑ LTA s/n 2057 (bladder s/n 007) ☑ LTA Restraint and Strap
ECOK (An) ☐☐☐ EVA 1, 3, & 4 Ziplock Bags (less used items) ☐ MAGs ☐ TCUs (top, bottom) ☐ Socks ☐ Wristlets ☐ Comfort Gloves ☐☐ Flag, patch and EV2 stripes	ECOK (Sw) ☑☑☑ EVA 1, 2, & 4 Ziplock Bags (less used items) ☑ MAGs ☑ TCUs (top, bottom) ☑ Socks ☑ Wristlets ☑ Comfort Gloves ☑☑ Flag, patch and EV1 stripes

Airlock Floor Bag

☐ Ac ECOK: ☐☐ EVA 2 & 3 Ziplock Bags (less used items) ☐ MAGs ☐ TCUs (top, bottom) ☐ Socks ☐ Wristlets ☐ Comfort Gloves ☐☐ Flag, patch and EV3 stripes ☐ LCVG (Ac 1) ☐ Comm Cap – 4 (Ac 1, Ac 2, Sw 1, An 1) ☐ EMU Gloves 4 pair (Ac 1, Ac 2, Sw 2, An 2) ☐ Cuff C/L – 3 (Ac, An, Sw) ☐ Wrist Mirrors (4) ☐ 85-ft Safety Tether (2) (s/n 1001, 1005) ☐ EMU Servicing Kit (s/n 5005)	☐ Transfer to Shuttle Mesh Bag ☐ Torque wrench s/n 1007 ☐ 4 locking strut aids (Not Planned for Use) ☐ EMU LiOH Canister (2) ☐ Crack Repair Pallet (2) Verify Transfer List Items (stowed by MS4 on FD9) ☐ Item 407 (1.0 CTB EMU hardware) ☐ Item 600 (Sandy's ECOK) ☐ Item 720 (EVA wipes) ☐ Item 904 (SHERE Fluid Module Stowage Tray) ☐ Item 907 (Hydrogen Sensor ORU) ☐ Item 908 (2 EMU lower arm assemblies s/n 261 & 262) ☐ Item 909 (Biocide Filter Assembly s/n 1007)

28. Transfer following EVA equipment to Shuttle; report status to **MCC-H**:

Item	Destination	Transfer Status
EMU 3017 (Sw)	Temp stow in Middeck	
EMU 3004 (An)	Temp stow in Middeck	
Airlock Floor Bag	Temp stow in Middeck	

29. Verify the following in M-02 Bag s/n 1038 0.5 CTB s/n 1205:
    - ☐ EMU Battery s/n 2076
    - ☐ EMU Battery s/n 2037
    - ☐ EMU Battery s/n 2068
    - ☐ EMU Battery s/n 2069

LIOH CHANGEOUT

FLIGHT DAY 3 DOCKING ORBITER WITH ISS

(7 Crewmembers/Single Shift/FD1-17)

FLIGHT DAY	POS A	POS B	CK CMPLT
LAUNCH	1	2	
PRE FD1	"	"	
POST FD2	3	4	
PRE FD2	5	6*	
POST FD3	“	7	Docking
PRE FD3	“	“	Russian LiOH
POST FD4	"	"	
PRE FD4	8	“	
POST FD5	"	"	
PRE FD5	“	9	
POST FD6	"	"	
PRE FD6	“	“	Russian LiOH
POST FD7	"	"	
PRE FD7	10	“	
POST FD8	"	"	
PRE FD8	“	“	Russian LiOH
POST FD9	"	"	
PRE FD9	“	STS-123 22	
POST FD10	"	"	
PRE FD10	11	“	
POST FD11	“	“	
MID FD11	12*	13	Hatch Close
PRE FD11	14*	“	
POST FD12	15	16	
PRE FD12	17*	18*	
POST FD13	19	20	
PRE FD13	21	"	
POST FD14	22	23	EOM
PRE FD14	24*	25*	
POST FD15	26	27	EOM+1
PRE FD15	“	28	
POST FD 16	29	30	EOM+2
PRE FD16	31*	32*	
POST FD17	33	34	EOM+3

* Reseal LiOH cans w/ Gray Tape and stow
(Location of canisters on back)

NOTE

This card is specifically used for the STS-119 mission with the orbiter conducting single shift operations with a crew size of 7. This changeout scheme reflects FD3 docking with ISS, Vozdukh, and dual bed CDRA operation.

BACK OF 'LIOH CHANGEOUT
FLIGHT DAY 3 DOCKING WITH ISS'

LIOH CANISTER STOWAGE LOCATIONS

Ascent LiOH Locations

Orbiter:

MD52M: (LiOH):	Cans 1-31*
MDDK CEILING STBD 2:	Cans 32-39

ISS:

LAB1O3:	STS-123 22

*2 LiOH cans installed in LiOH slots A and B

Entry LiOH Locations

Orbiter:

MD52M (LiOH):	Cans 1-31 *
	STS-123 22
MDDK CEILING STBD 2:	Cans 32-34 +

ISS

LiOH Stockpile:	STS-119 35-39

* 2 LiOH cans installed in LiOH slots A and B
+ 1 STS-119 used can from Cans 1-31 was moved to the Middeck Ceiling Bag when STS-123 Can 22 was added to the LiOH box.