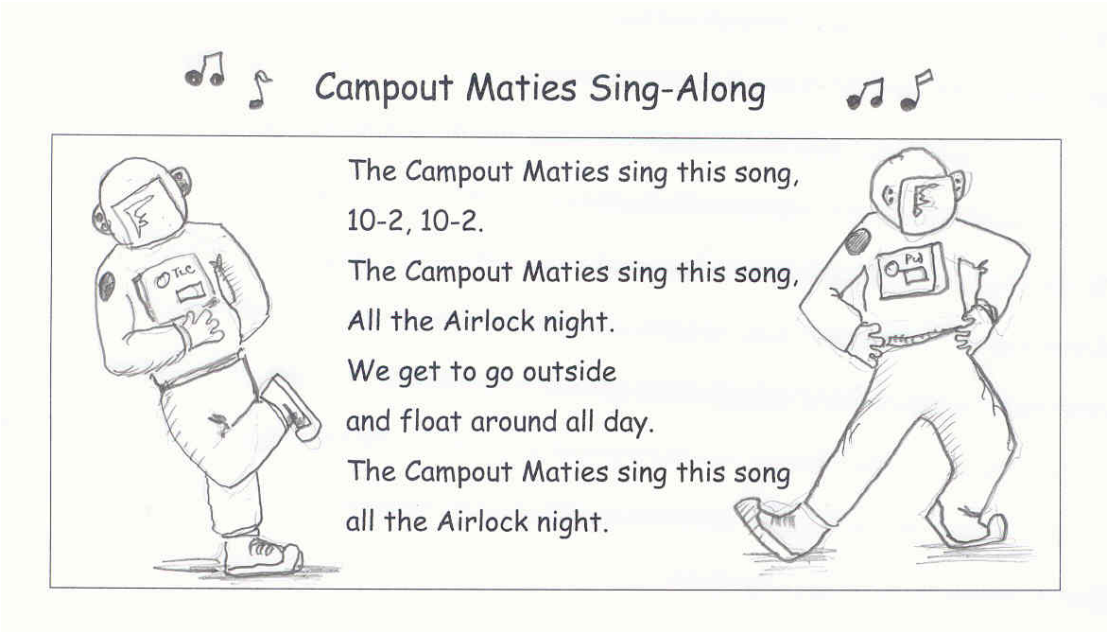
STS-134 / ULF6

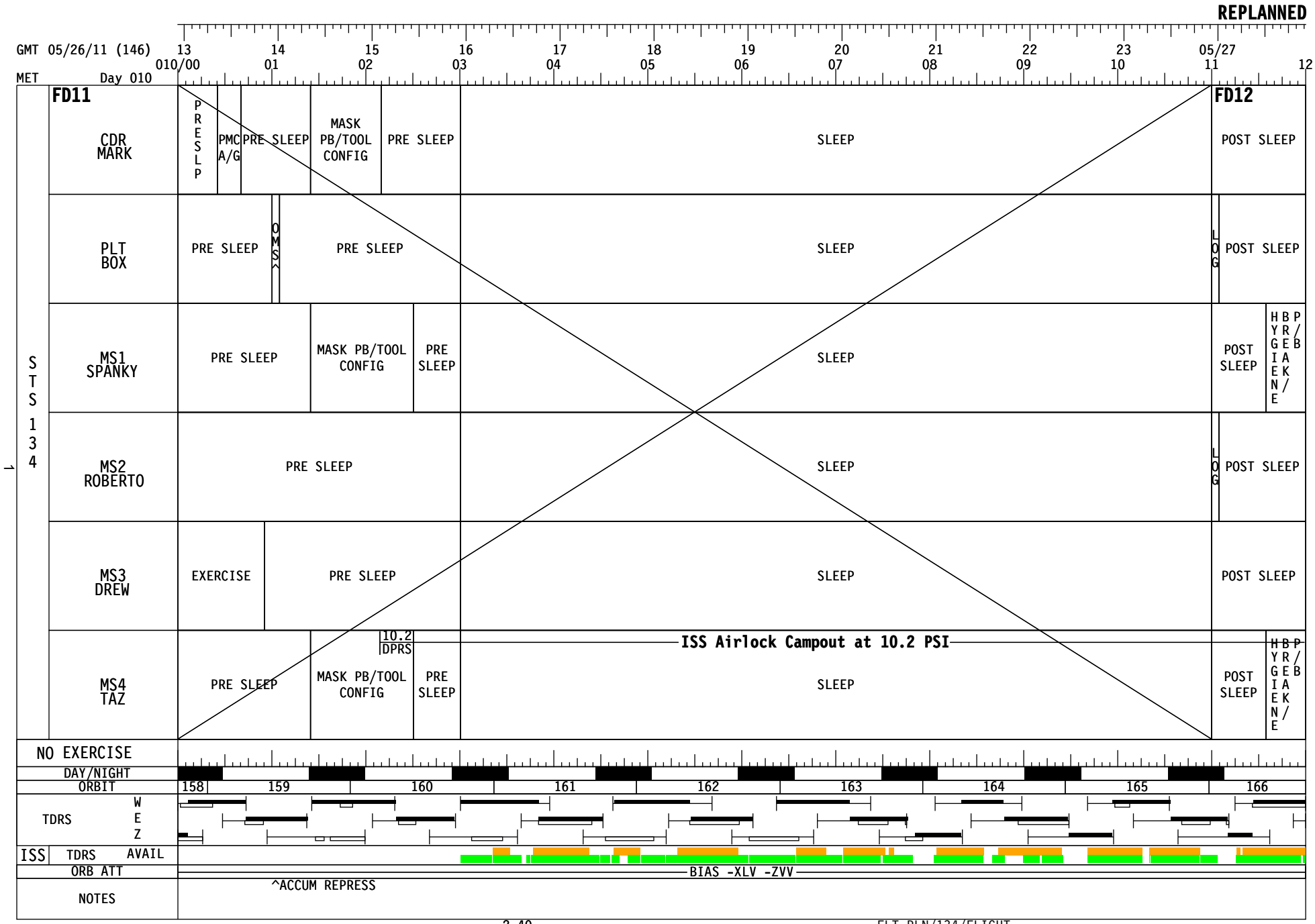
FD 12 Execute Package

MSG	Page(s)	Title
-	1-3	FD12 Summary Timeline
125C	4 - 16	FD12 Flight Plan Revision
126	17 - 18	FD12 Mission Summary
127	19	MYCO Overview
128	20 - 21	ULF6 Stowage Overview for FD12
129	22 - 28	Loose CWC-I Relocation
130	29 - 36	PMM Endcone and Payloads Cleanout
131	37	FD12 Crew Choice Downlink Opportunities
132	38	ULF6 FD12 Stowage Notes



Approved by FAO:
M. Scheib
Approved by OpsPlan:
K. Howell
Last Updated: May 26 2011 11:13 PM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v3.0*

Michael Scheib


REPLANNED
GMT 05/26/11 (146)
MET Day 010
13 14 15 16 17 18 19 20 21 22 23 05/27
010/00 01 02 03 04 05 06 07 08 09 10 11 12
FD11
FD12
STS 134
CDR MARK
PRESLP
PMC A/G
PRE SLEEP
MASK PB/TOOL CONFIG
PRE SLEEP
SLEEP
POST SLEEP
PLT BOX
PRE SLEEP
OMS^
PRE SLEEP
SLEEP
LOG
POST SLEEP
MS1 SPANKY
PRE SLEEP
MASK PB/TOOL CONFIG
PRE SLEEP
SLEEP
POST SLEEP
HYGIENE
BREAK/
P/B
MS2 ROBERTO
PRE SLEEP
SLEEP
LOG
POST SLEEP
MS3 DREW
EXERCISE
PRE SLEEP
SLEEP
POST SLEEP
MS4 TAZ
PRE SLEEP
MASK PB/TOOL CONFIG
10.2 DPRS
PRE SLEEP
ISS Airlock Campout at 10.2 PSI
SLEEP
POST SLEEP
HYGIENE
BREAK/
P/B
NO EXERCISE
DAY/NIGHT
ORBIT
158 159 160 161 162 163 164 165 166
TDRS
W
E
Z
ISS
TDRS AVAIL
ORB ATT
BIAS -XLV -ZVV
NOTES
^ACCUM REPRESS

REPLANNED

GMT 05/27/11 (147) 01 02 03 04 05 06 07 08 09 10 11 12 011/00

MET Day 010 12 13 14 15 16 17 18 19 20 21 22 23

STS 134

FD12

CDR MARK	POST	SLEEP	HYG BRK/ HATCH CLS	CAMPOUT EVA PREP			EMU	PURGE	EMU PREBREATHE		C_LK DPRS		P-DPS	OBSS	UNGRPL	P/TV07 EVA			CWC #10	INIT	MEAL	CWC #10	TERM	P/TV07 EVA			CWC XFER	P-RPS	CRPRS	POST EVA W/H20		PRESLP
PLT BOX	POST SLEEP				INHIB	PADS	EXERCISE			IMU	CRINST	SRMS	GRAPS	OBSS		SSRMS OBSS STOW			MEAL		SSRMS OBSS GF SWAP		CRRMV	STOWAGE OPS		MYCO	STOWAGE OPS			RMS PWRDN		O2 RECONFIG	TOXFER
MS1 SPANKY	HYGIENE BREAK/ P/B			CAMPOUT EVA PREP			EMU	PURGE	EMU PREBREATHE		C_LK DPRS		P-DPS	EGRS SETUP		OBSS STOW		P6 PDGF RETRIEVE			OBSS EFGF/PDGF SWAP		STOW EFGF IN TSA	ELC3 SPDM ARM RLS			CLNUP INGRS	P-RPS	CRPRS	POST EVA W/H20		PRE SLEEP
MS2 ROBERTO	POST SLEEP				PLYBK	PS	MDKU#	P/TV07	EVASU		EXERCISE			OBSS	UNGRPL	STOWAGE OPS			MEAL		STOWAGE OPS									RMS PWRDN	BRIEF		MDK#
MS3 DREW	POST	SLEEP	TEST	HYG BRK/ HATCH CLS			EMU	PURGE	EMU PREBREATHE		C_LK DPRS		P-DPS	**EVA 4 (6:30)** EVA 4 IVA SUPPORT															GLOVE	PHOTO	EVA*	POST EVA W/H20	
MS4 TAZ	HYGIENE BREAK/ P/B		10.2 DPRS	CAMPOUT EVA PREP			EMU	PURGE	EMU PREBREATHE		C_LK DPRS		P-DPS	EGRS SETUP		OBSS STOW		P6 PDGF RETRIEVE			OBSS EFGF/PDGF SWAP		OTP	TETHER	ELC3 SPDM ARM RLS		CLNUP INGRS	P-RPS	CRPRS	POST EVA W/H20		O2 RECONFIG	TOXFER

NO EXERCISE: [A] [B] NO UNISOL [C] NO UNISOL [D]

DAY/NIGHT

ORBIT 166 167 168 169 170 171 172 173 174

TDRS W E Z

ISS TDRS AVAIL

ORB ATT BIAS -XLV -ZVV

NOTES
*FILTER CK
#STATUS CHECK
[A] NO EXERCISE [OBSS DOUBLE GRAPPLE]
[B] NO UNISOLATED EXERCISE [EVA CREW IN APFR]
[C] NO UNISOLATED EXERCISE [CREW OUTBOARD OF SARJ FOR P6 PDGF RETRIEVE]
[D] NO UNISOLATED EXERCISE [SPDM EDF RELEASE]
*D/L STATUS# CHECK

REPLANNED

GMT 05/27/11 (147) 13 14 15 16 17 18 19 20 21 22 23 05/28

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

STS 134	FD12																								FD13	
CDR MARK	PRE SLP			POST EVA	TAGUP	PRE SLP	PFC ISS OCA		PRE SLP		PMC A/G	PRE SLEEP	SLEEP												POST SLEEP	
PLT BOX	O2 RECONFIG	TO XFER	O2 INIT	PRE SLEEP			OMS^	PRE SLEEP					SLEEP												MYCO	SAMPLE POST SLEEP
MS1 SPANKY	PRE SLEEP			POST EVA	TAGUP	PRE SLEEP							SLEEP												ASPRN	POST SLEEP
MS2 ROBERTO	PRE SLEEP												SLEEP												LOG	POST SLEEP
MS3 DREW	POST EVA	W/H2O	PRE SLEEP	POST EVA	TAGUP	STORRM	PRE SLEEP						SLEEP												POST SLEEP	
MS4 TAZ	O2 RECONFIG	TO XFER	O2 INIT	POST EVA	TAGUP	PRE SLEEP							SLEEP												LOG	ASPRN POST SLEEP

NO EXERCISE

DAY/NIGHT

ORBIT 174 175 176 177 178 179 180 181 182

TDRS W E Z

ISS TDRS AVAIL

ORB ATT BIAS -XLV -ZVV

NOTES ^ACCUM REPRESS

3

MSG INDEX

MSG NO.	TITLE
125	FD12 Flight Plan Revision
126	FD12 Mission Summary
127	MYCO Overview
128	ULF6 Stowage Overview for FD12
129	Loose CWC-I Relocation
130	PMM Endcone and Payloads Cleanout
131	FD12 Crew Choice Downlink Opportunities
132	ULF6 FD12 Stowage Notes

1. Post-Sleep Cryo Config

   For today's post-sleep cryo config, O2 tanks 2, 3, & 4, and H2 tanks 2 and 5 will be active. We are expecting to deplete H2 tank 5 today; you can expect realtime calls to reconfigure tanks following depletion.

   R1 O2,H2 MANF VLV TK2 (two) - OP (tb-OP)
   O2 TK3 HTR A - AUTO

   A11 CRYO TK4 HTR O2 A - AUTO

   A15 CRYO TK5 HTR O2 A - OFF

2. Pre-Sleep Cryo Config
   √MCC for deltas prior to configuring for pre-sleep.

   For tonight's pre-sleep cryo config, manifold 1 will be closed with O2 tanks 1 & 5 active and H2 tanks 1 & 4 active.

   A15 CRYO TK5 HTR O2 A - AUTO

   A11 CRYO TK4 HTR O2 A - OFF

   R1 O2,H2 TK1 HTRS A,B (four) - AUTO
   TK2 HTRS A,B (four) - OFF
   O2 TK3 HTR A - OFF
   O2,H2 MANF VLV TK1 (two) - CL (tb-CL)

3. MSG 030 Update: Stowage Locations for Remaining CWCs
   Locate any 2 Technical CWCs (from the list below) in NOD2O2, transfer and temp stow on the shuttle middeck for the remaining CWC fills. Report the S/Ns of the CWCs transferred.
   1043, 1073, 1077, 1085, 1086, 1089

4. Condensate Bag Status
   Please provide MCC with an estimate of how full condensate CWC S/N 1090 (on the middeck) is at your convenience.

5. Pen & Ink Update to PDRS FS 7-12
   The LCC was deactivated on FD6 during the execution of MSG 55 Focused Inspection Step 9. LCC Deactivation can now be deleted from OBSS UNGRAPPLE FOR STOW (PDRS FS, OBSS HANDOFF) page 7-12 Step 3:

   3. SENSOR DEACTIVATION

   Perform ~~LCC DEACTIVATION (LCS (Cue Card), PHOTO/TV)~~

   LCH DEACTIVATION (LCS (Cue Card), PHOTO/TV)

   DEACTIVATION (LDRI/ITVC (Cue Card), PHOTO/TV)

   R12 Green Jumper – ISS

6. Window 4 Playback
   The imagery team did not receive the first 70 sec of the Window 4 playback. We scheduled time in Post Sleep for Roberto to attempt to play the first portion of the Window 4 video to complete ascent debris analysis before Entry.

7. OGA
   Taz and Spanky, Thank you again for your work on OGA! We had you perform OGA remediation because OGA generates acid during the course of electrolysis. The acid in turn lowers the pH of the recirculation loop which leads to degradation of the cell stack. If this acid is not continuously removed, it will continue to cause hardware damage to OGA. The remediation you performed will allow continual removal of the acid, keeping the pH of the recirculation loop at a neutral level. For the last few months we have not been able to operate OGA in fear of causing further damage to the system, with this remediation kit installed, we will be able to operate it nominally.

8. Intermittent Audio
   In an effort to troubleshoot the intermittent audio problems, please swap the FD and MD HHMs and report when complete. Also, please confirm that you have the QDMs in the MD configured properly for audio in case of an Emergency.

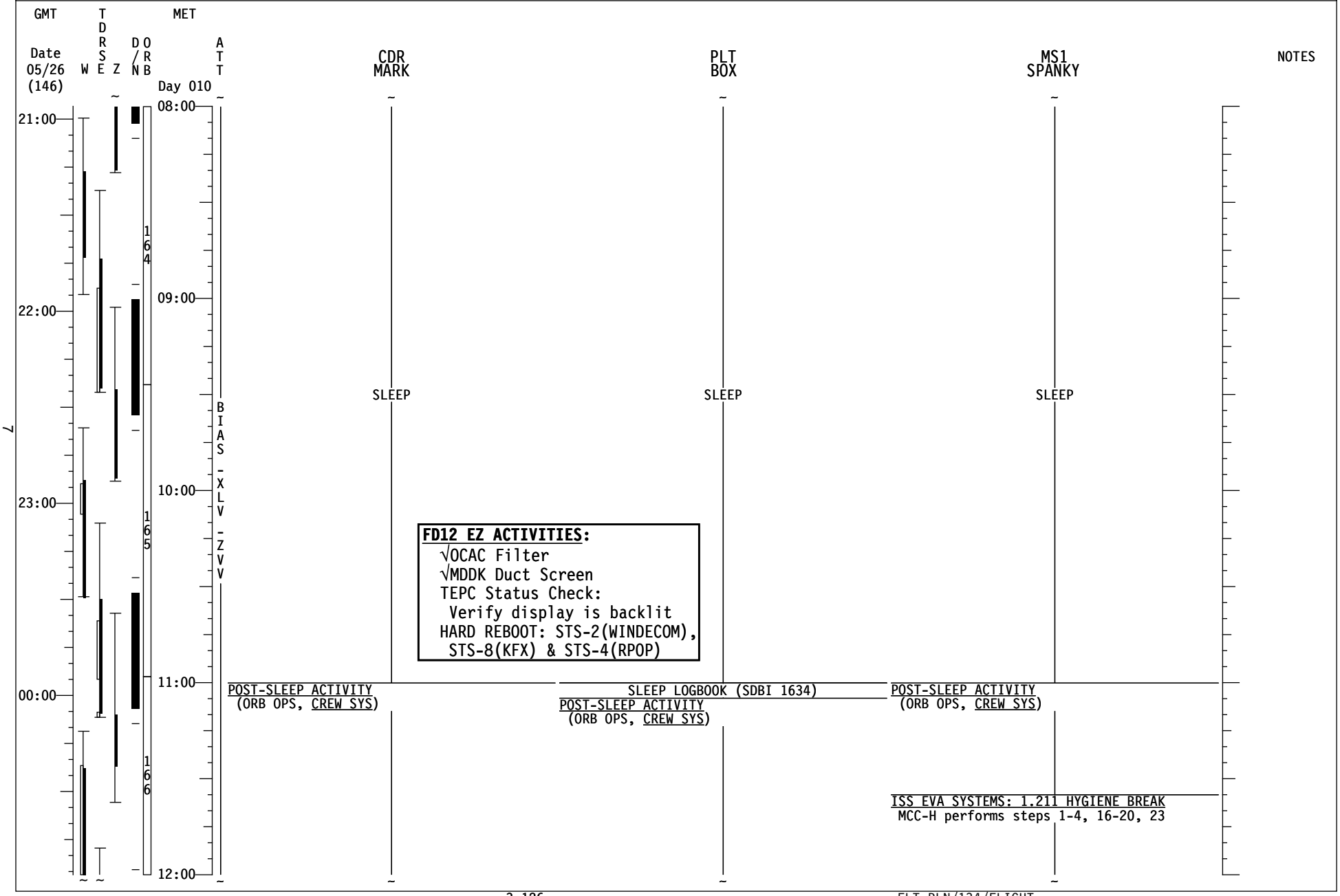
9. Stowage Ops
   For Box and Roberto: We have uplinked message 134-128 (28-0055): ULF6 Stowage Overview for FD12. This contains the current stowage plan for your Stowage Ops activities on today's timeline. We have also uplinked 134-129 (28-0052): Loose CWC-I Relocation and 134-130 (28-0057): PMM Endcone and Payloads Cleanout in support of FD12 Stowage Ops. Ron has a full schedule today so if you have any questions, please call MCC-H on A/G2. We will be happy to answer any questions for you!

10. As a reminder, when recording video always record ~15 seconds of pre-roll video before you begin speaking on camera or before content begins. When pausing or stopping during MPC playback, rewind the tape back ~15 seconds before the next playback session to prevent dropped frames in the downlink.

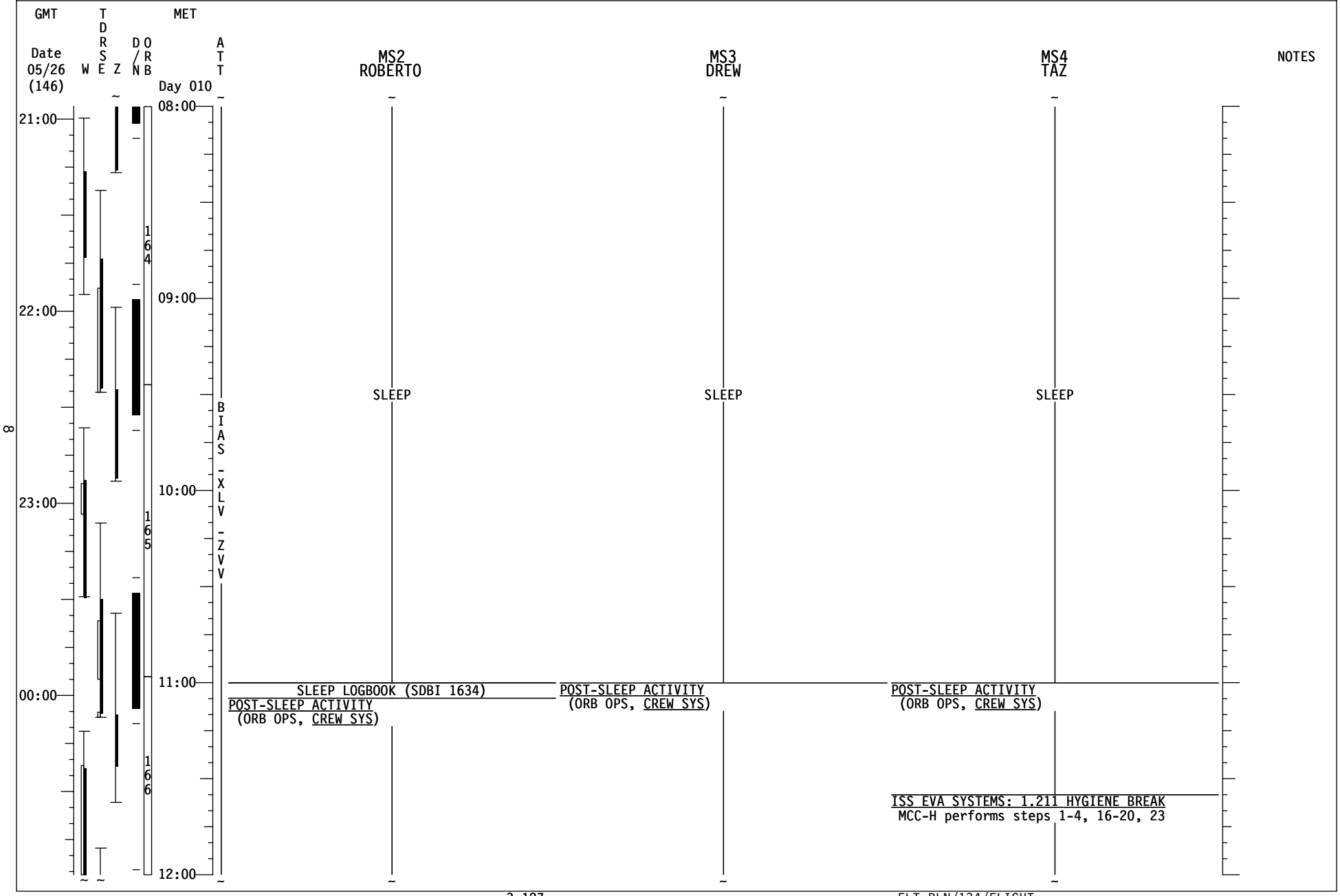
    This will allow the recording heads ample time to thread a tape and come to proper recording speed. Any duplicate frames in the playback can be edited out on the ground.

11. Replace pages 3-126 thru 3-135.

STS-134/ULF6 FD12



STS-134/ULF6 FD12



STS-134/ULF6 FD12

GMT Date 05/27 (147) | W | TDRSE | Z | D/N | ORB | MET Day 010 | ATT

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

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

166 | 167 | 168 | 169

BIAS-XLV-ZVV

CDR MARK

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ISS EVA SYSTEMS: 1.211 HYGIENE BREAK
Perform steps 21-22, 24-25
MCC-H performs step 23

ISS EVA SYSTEMS: 1.216 EVA PREP
MCC-H performs step 1

ISS EVA SYSTEMS: 1.220 EMU PURGE
MCC-H performs steps 6 and 12

ISS EVA SYSTEMS: 1.225 EMU PREBREATHE
Steps 3, 7, 10 not required
MCC-H performs step 49

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
Perform CREWLOCK DEPRESS

ISS EVA SYS:C-LK DPRS/RPRS CC POST DEPRESS
OBSS UNGRAPPLE FOR STOW See pg. 3-130

PLT BOX

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA 4 INHIBIT PAD
(EVA, TIMELINES) Ref. MSG 119
A7 √WIRELESS VID HTR - ON

EXERCISE

IMU STAR OF OPPORTUNITY ALIGN (ORB OPS,GNC)

CSS: 1.111 CUPOLA CREW RESTRAINT OPS Step 5
ROBO: 1.610 SSRMS EVA SUPPORT - OBSS HANDOFF AND STOW ON S1
Steps 1-4
EXERCISE CONSTRAINT

MS1 SPANKY

ISS EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H performs steps 1-4, 16-20, 23

ISS EVA SYSTEMS: 1.216 EVA PREP
MCC-H performs step 1

ISS EVA SYSTEMS: 1.220 EMU PURGE
MCC-H performs steps 6 and 12

ISS EVA SYSTEMS: 1.225 EMU PREBREATHE
Steps 3, 7, 10 not required
MCC-H performs step 49

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
Perform CREWLOCK DEPRESS

ISS EVA SYS:C-LK DPRS/RPRS CC POST DEPRESS
EGRESS/SETUP

NOTES

UPLINK
β21+Mask
Box 40,41,44

NO EXERCISE
[OBSS DOUBLE GRAPPLED]

STS-134/ULF6 FD12

GMT Date 05/27 (147) | W | TDRSE | Z | D/N | ORB | MET Day 010 | ATT

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

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

166 | 167 | 168 | 169

BIAS-XLV-ZVV

MS2 ROBERTO

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

A DIGITAL VIA VTR
(CUE CARD, DIGITAL PLAYBACK)
Window 4 Minicam, Ref. MSG 125 Item 6
KU TDRE (13:43-14:14)

WINDOW 4 MINICAM PLAYBACK A

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

L17 Check MCIU filter screen

P/TV07 EVA
(PHOTO/TV, SCENES)
SETUP

EXERCISE

OBSS UNGRAPPLE FOR STOW See pg. 3-131

MS3 DREW

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

P/TV:3.710 D2Xs EVA CAMERA TEST 2 Cameras

ISS EVA SYSTEMS: 1.211 HYGIENE BREAK
Perform steps 21-22, 24-25
MCC-H performs step 23

ISS EVA SYSTEMS: 1.216 EVA PREP
MCC-H performs step 1

ISS EVA SYSTEMS: 1.220 EMU PURGE
MCC-H performs steps 6 and 12

ISS EVA SYSTEMS: 1.225 EMU PREBREATHE
Steps 3, 7, 10 not required
MCC-H performs step 49

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
Perform CREWLOCK DEPRESS

ISS EVA SYS:C-LK DPRS/RPRS CC POST DEPRESS
IVA SUPPORT EVA 4

MS4 TAZ

ISS EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H performs steps 1-4, 16-20, 23

ISS EVA SYSTEMS: 1.216 EVA PREP
MCC-H performs step 1

ISS EVA SYSTEMS: 1.220 EMU PURGE
MCC-H performs steps 6 and 12

ISS EVA SYSTEMS: 1.225 EMU PREBREATHE
Steps 3, 7, 10 not required
MCC-H performs step 49

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
Perform CREWLOCK DEPRESS

ISS EVA SYS:C-LK DPRS/RPRS CC POST DEPRESS
EGRESS/SETUP

NOTES

NO EXERCISE [OBSS DOUBLE GRAPPLED]

STS-134/ULF6 FD12

GMT Date 05/27 (147) | W | TDRSE | Z | D/N | ORB | MET Day 010 | ATT

05:00 | 06:00 | 07:00 | 08:00

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

169 | 170 | 171

BIAS-XLV-ZVV

CDR MARK

OBSS UNGRAPPLE FOR STOW
(PDRS, OBSS HANDOFF)
EXERCISE CONSTRAINT
Ref. MSG 125 Item 5

P/TV07 EVA
(PHOTO/TV, SCENES)
OPS

SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS) Perform CWC FILL #10
Ref. MSG 030

MEAL

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

P/TV07 EVA (PHOTO/TV, SCENES) OPS

PLT BOX

ROBO: 1.610 SSRMS EVA SUPPORT - OBSS HANDOFF AND STOW ON S1
Steps 1-4
EXERCISE CONSTRAINT

ROBO: 1.610 SSRMS EVA SUPPORT - OBSS HANDOFF AND STOW ON S1
Steps 5-12
EXERCISE CONSTRAINT

MEAL

ROBO: 1.620 SSRMS EVA SUPPORT - OBSS GF SWAP

MS1 SPANKY

EGRESS/SETUP

OBSS STOW

P6 PDGF RETRIEVE

OBSS EFGF/PDGF SWAP

NOTES

NO EXERCISE [OBSS DOUBLE GRAPPLED]

NO UNISOLATED EXERCISE [EVA CREW IN APFR]

NO UNISOLATED EXERCISE [CREW OUTBOARD OF SARJ FOR P6 PDGF RETRIEVE]

STS-134/ULF6 FD12

GMT Date 05/27 (147) | W | TDRSE | Z | D/N | ORB | MET Day 010 | ATT | MS2 ROBERTO | MS3 DREW | MS4 TAZ | NOTES

05:00 06:00 07:00 08:00

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

169 170 171

BIAS - XLV - ZVV

OBSS UNGRAPPLE FOR STOW
(PDRS, OBSS HANDOFF)
EXERCISE CONSTRAINT
Ref. MSG 125 Item 5

STOWAGE OPS
Ref. MSG 128

MEAL

STOWAGE OPS
Ref. MSG 128

IVA SUPPORT EVA 4

EGRESS/SETUP

OBSS STOW

P6 PDGF RETRIEVE

OBSS EFGF/PDGF SWAP

NO EXERCISE [OBSS DOUBLE GRAPPLED]

NO UNISOLATED EXERCISE [EVA CREW IN APFR]

NO UNISOLATED EXERCISE [CREW OUTBOARD OF SARJ FOR P6 PDGF RETRIEVE]

STS-134/ULF6 FD12

GMT Date 05/27 (147) | W | TDRSE | Z | D/N | ORB | MET Day 010 | ATT

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

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

172 | 173 | 174

BIAS-XLV-ZVV

CDR MARK

P/TV07 EVA
(PHOTO/TV, SCENES)
OPS

CWC TRANSFER
Transfer CWC to ISS

ISS EVA SYS: C-LK DPRS/RPRS CC PRE REPRESS

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
Perform CREWLOCK REPRESS

ISS EVA SYSTEMS: 1.240 POST EVA
With H2O RECHARGE
Steps 37, 39, 66 not required
MCC-H will perform Steps 43, 67-68
Ref. STS-134 CONSUMABLES TRACKING CC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PLT BOX

ROBO: 1.620 SSRMS EVA SUPPORT - OBSS GF SWAP

CSS: 1.111 CUPOLA CREW RESTRAINT OPS Step 6

STOWAGE OPS
Ref. MSG 128

MYCO BODY SAMPLE COLLECTION
(ASSY OPS, PAYLOADS) Review Only, Ref. MSG 127

STOWAGE OPS
Ref. MSG 128

POST OBSS TRANSFER PWRDN
(PDRS, OBSS HANDOFF)

JOINT OPS: 3.123 O2 TRANSFER SETUP (POST PREBREATHE USING SHUTTLE O2)
Steps 2-5
MCC-H will perform Steps 2.5 and 5.6

MS1 SPANKY

OBSS EFGF/PDGF SWAP

STOW EFGF IN TSA

SPDM EDF RELEASE

CLEANUP/INGRESS

ISS EVA SYS: C-LK DPRS/RPRS CC PRE REPRESS

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
Perform CREWLOCK REPRESS

ISS EVA SYSTEMS: 1.240 POST EVA
With H2O RECHARGE
Steps 37, 39, 66 not required
MCC-H will perform Steps 43, 67-68
Ref. STS-134 CONSUMABLES TRACKING CC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NOTES

UPLINK
β21+Mask
Box 40,41,45

NO UNISOLATED EXERCISE [SPDM EDF RELEASE]

STS-134/ULF6 FD12

GMT Date 05/27 (147) | W | TDRS E | Z | D/N | ORB | MET Day 010 | ATT

09:00 10:00 11:00 12:00

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

ORB: 172, 173, 174

ATT: BIAS-XLV-ZVV

MS2 ROBERTO

STOWAGE OPS
Ref. MSG 128

POST OBSS TRANSFER PWRDN
(PDRS, OBSS HANDOFF)

STOWAGE BRIEF
Call down status to MCC via A/G 2

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

MS3 DREW

IVA SUPPORT EVA 4

B Perform for two EVA Cameras:
1. PTV: 3.725 D2XS EVA CAMERA TURNAROUND-CAMERA ONLY Step 1
2. Temp stow EVA Camera and Camera Mounting Assembly together for an additional deact activity on GMT 149.

ISS EVA SYSTEMS:1.241 POST EVA GLOVE PHOTOS

EVA IMAGE DOWNLINK B

ISS EVA SYSTEMS: 1.240 POST EVA
With H2O RECHARGE
Steps 37, 39, 66 not required
MCC-H will perform Steps 43, 67-68
Ref. STS-134 CONSUMABLES TRACKING CC

MS4 TAZ

OBSS EFGF/PDGF SWAP

OTP LDTD TETHER CINCH

ELC3 SPDM ARM RLS

CLEANUP/INGRESS

ISS EVA SYS: C-LK DPRS/RPRS CC PRE REPRESS

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
Perform CREWLOCK REPRESS

ISS EVA SYSTEMS: 1.240 POST EVA
With H2O RECHARGE
Steps 37, 39, 66 not required
MCC-H will perform Steps 43, 67-68
Ref. STS-134 CONSUMABLES TRACKING CC

JOINT OPS: 3.123 O2 TRANSFER SETUP (POST PREBREATHE USING SHUTTLE O2)
Steps 2-5
MCC-H will perform Steps 2.5 and 5.6

NOTES

NO UNISOLATED EXERCISE [SPDM EDF RELEASE]

STS-134/ULF6 FD12

GMT Date 05/27 (147) | W | TDRSE | Z | D/N | ORB | MET Day 011 | ATT

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

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

174 | 175 | 176 | 177

BIAS-XLV-ZVV

CDR MARK

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST EVA TAGUP
Private Conference via S/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Private Family Conference C
ISS S & KU AVAIL (00:55-01:38)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

L9 PS AUD A/G 1,2 (two) - OFF
PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

PLT BOX

JOINT OPS: 3.123 O2 TRANSFER SETUP (POST PREBREATHE USING SHUTTLE O2)
Steps 2-5
MCC-H will perform Steps 2.5 and 5.6

JOINT OPS: 3.128 O2 TRANSFER TO HI P AND LO P O2 TANKS Step 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

C3 OMS ENG LEFT - ARM/PRESS (Wait 5 Sec.)
- OFF

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS1 SPANKY

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST EVA TAGUP
Private Conference via S/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

C PFC to be performed using S-Band via Public Call 4 for audio and Ku-Band for video.
Please call down SSC preference before the conference and make sure that all applications except Netmeeting have been closed.

CREW WAKE AT 11/11:00

NOTES

STS-134/ULF6 FD12

GMT Date 05/27 (147) | W | TDRS E | Z | D/N | ORB | MET Day 011 | ATT

13:00 14:00 15:00 16:00

174 175 176 177

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

BIAS -XLV -ZVV

MS2 ROBERTO

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS3 DREW

ISS EVA SYSTEMS: 1.24Q POST EVA
With H2O RECHARGE
Steps 37, 39, 66 not required
MCC-H will perform Steps 43, 67-68
Ref. STS-134 CONSUMABLES TRACKING CC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST EVA TAGUP
Private Conference via S/G 2

Power Up STORRM PGSC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS4 TAZ

JOINT OPS: 3.123 O2 TRANSFER SETUP (POST PREBREATHE USING SHUTTLE O2)
Steps 2-5
MCC-H will perform Steps 2.5 and 5.6

JOINT OPS: 3.128 O2 TRANSFER TO HI P AND LO P O2 TANKS Step 2

POST EVA TAGUP
Private Conference via S/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

NOTES

CREW WAKE AT 11/11:00

MSG 126 - FD12 MISSION SUMMARY

Congratulations on another amazing day in space. We are all looking forward to today's EVA and supporting activities.

YOUR CURRENT ORBIT IS: 187 X 182 NM

NOTAMS -

EDW -	EDW 22L/04R IN USE. EDT 22R/04L EMERGENCY DAY USE ONLY.
EDW -	LAKEBED RWYS RED.
NOR -	LAKEBED RWYS GREEN.
FMH -	UNDERRUNS/OVERRUNS NOT AVAILABLE.
EDF -	RWY 06/24 CLSD.
ILM -	RWY 06/24 CLSD.
HNL -	RWY 08R/26L CLSD.
NTU -	RWY 05R/23L CLSD.
FFA -	NOT USABLE. IN CARETAKER STATUS.
LAJ -	RWY WIDTH REDUCED TO 154' - EAST SIDE OF RWY CLSD.
BEN -	NOT USABLE. NOT SUPPORTED.
IKF -	NOT USABLE. NO AGREEMENT.

<u>NEXT 2 PLS OPPORTUNITIES:</u>

NOR35	ORB 172 – 10/20:58	SKC	7	300/6P9
NOR23	ORB 187 – 11/19:46	SKC	7	270/6P9

<u>OMS TANK FAIL CAPABILITY:</u>

NO

<u>LEAKING OMS PRPLT BURN:</u>

L or R OMS LEAK: ALWAYS BURN RETROGRADE

<u>OMS QUANTITIES(%)</u>

L OMS	OX = 33.23	R OMS	OX = 34.28
	FU = 33.24		FU = 33.95

FOR CURRENT QTYS, SUBTRACT INCN’T COUNTER

END OF PAGE 1 OF 2, MSG 126

MSG 126 - FD12 MISSION SUMMARY

DELTA V AVAILABLE:

OMS	346 FPS
ARCS (TOTAL ABOVE QTY1)	46 FPS
TOTAL IN THE AFT	392 FPS
ARCS (TOTAL ABOVE QTY2)	79 FPS
FRCS (ABOVE QTY 1)	32 FPS
AFT QTY 1	82 %
AFT QTY 2	44 %

SYSTEM #	FAILURE	IMPACT	WORK AROUND
APU 2	APU 2 GBX P and GG BED T failed OSL, and the GG Bed heater A failed off for 4 1/2 min, then regained functionality	Loss of APU 2 GG/Fuel Pump heater A should the failure reoccur	The S86 GG/FU PMP 2 and S86 APU GBX P 2 alarms are inhibited. APU heater Gas Gen/Fuel Pump 2B is selected. APU heater Gas Gen/Fuel Pump 2A will be used if needed

END OF PAGE 2 OF 2, MSG 126

28-0053 (MSG 127) MYCO OVERVIEW

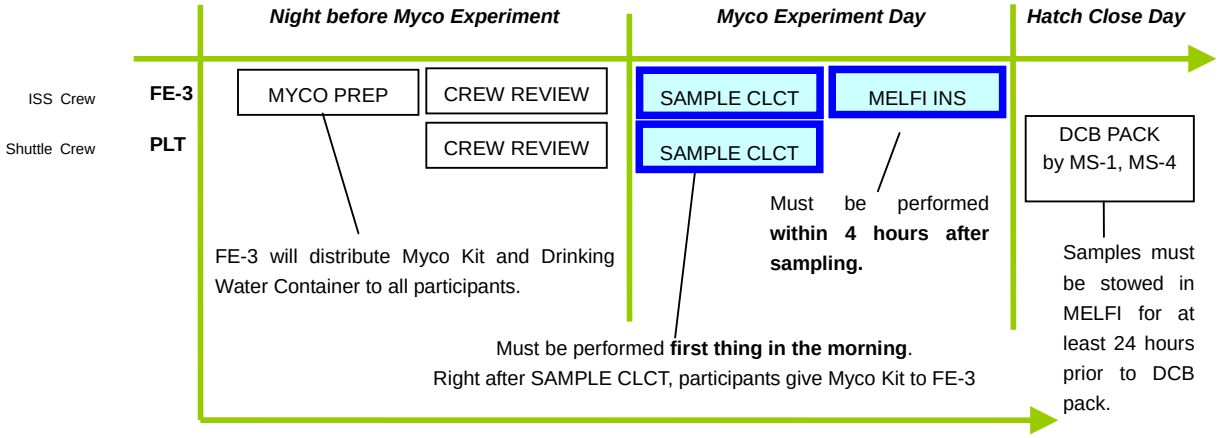
(ASSY OPS/ULF 6/FIN/REAL-TIME) Page 1 of 1 page

OBJECTIVE:

To provide the crew with an overview of the constraints and operations of the time critical MYCO sample collection and stowage.

1. MYCO TIMELINE

> NOTE
>
> Myco SAMPLE CLCT and MELFI INS are time critical tasks. (Highlighted in blue in figure below).



MYCO PREP : Preparation of Myco Kit and Drinking Water Container (for rinsing mouth before pharynx sample collection).

CREW REVIEW : Procedure review. Review scientific constraints of the experiment.

SAMPLE CLCT : Collection of body samples.

MELFI INS : Insertion of Myco Kit into MELFI.

DCB PACK : Packing all Myco Kit into DCB

Figure 1. – MYCO Timeline.

2. MYCO CONSTRAINTS

Please do NOT eat, drink, wash face, brush teeth, or gargle after wake up to avoid science loss. A sip of water is OK.

Box and Roberto,

You guys are doing an awesome job with these stowage tasks! We appreciate your persistence. Please call the ground with any questions or concerns! We are going to stand-down on ATV Cargo Ops for today. Your other Stowage Tasks are listed by order of priority. Please start with the first one, and when you complete that, move on to the next one. We do not expect you to complete all of these messages today but wanted to ensure you had enough work to stay busy.

We have two follow up tasks for you from ULF6 Unpack. Please confirm that these were done when we tag up during the Stowage Brief.

Good luck!!

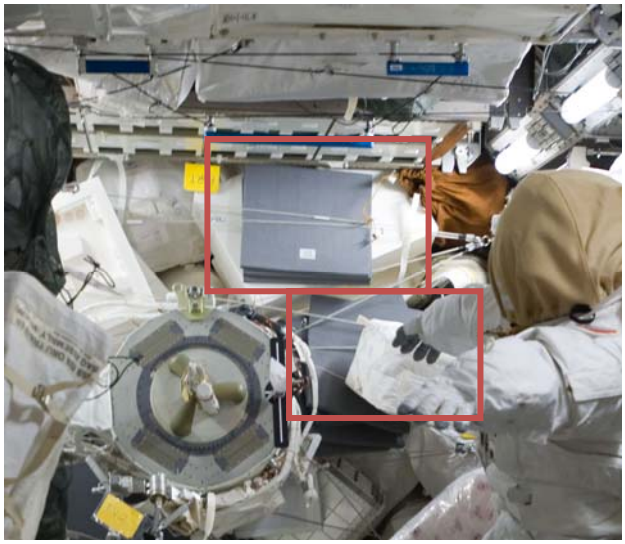
- *ULF6 ISO Team: Misty, Nikhail, Eryx, & Neisha*

Open Questions/Answers

1. Roberto – We were able to get in contact with Paolo to discuss the location of the 2nd TSR. He told us that the TSR is located in the only CTB with a yellow label still on it. He believes he saw this on Sunday in ATV2D2_C2 in 1.0 CTB 1467. Please take a look, and let us know if you can find this CTB with the TSR. Please don't spend too much time looking for this – if you can't find it we will re-work our plans.

ULF6 Unpack

- There is some gray foam hanging out in the PMM Endcone. Please relocate all the gray foam to the empty 5 MLE Bag that launched strapped to the A/L Floor Bag (Bag I).



- Item 31.2.5, Red IVIS Box did not fit inside LAB1D4_K2 and was temp stowed on the LAB1D4 rack front. We are going to have you do a little stowage shuffle to make this work. Restow items according to the table below.

#	Item	Unstow	Restow
1	Treadmill Harnesses and Ziplock of Series Bungee System Assemblies (SBS)	LAB1D4_K2	LAB1D4_G1
2	Red IVIS Box [S/N 1005]	LAB1D4 Rack Front	LAB1D4_K2

Stowage Tasks

1. Relocate JAXA Cargo from PMM to JEM (1 hour)
    a. This activity involves relocating a few JAXA items from US stowage locations to permanent homes within the JPM and JLP.
    b. Execute per 27-0530 (MSG 105): JAXA Hardware Relocate
2. Consolidate the Remaining CWC-I's (3 hours)
    a. This activity will have you retrieve the leftover CWC-I's that did not fit in the PMM Standoffs and create a water wall.
    b. Execute per 28-0052 (MSG 129): Loose CWC-I Relocation
3. Swap CD's from ULF6 (2 hours)
    a. Previous crew members have reported that this task is easiest when done with two people. It would be perfect when you are both scheduled for Stowage Ops at GMT 9:36 (MET 10/20:40).
    b. This activity will have you configure the CD cases onboard to include the ULF6 CDs and configure other CDs for return on ULF7.
    c. Execute per 27-0429 (MSG 104): ULF6 CD Transfer Note.
4. Relocate and Consolidate items from the PMM and various Payloads hardware (10 hours)
    a. This activity will have you put away items hanging out in the PMM Endcone and consolidate other similar hardware.
    b. Execute per 28-0057 (MSG 130): PMM Endcone and Payloads Cleanout.

Increment 28: Loose CWC(-I) Relocation

Goal: To create a CWC(-I) water wall by relocating the CWC(-I)s stowed loose on the JLP & PMM rack fronts.

Duration: 3 hours

Overview: The ISS crew has created two previous water walls – one for PWRs and one for CWCs. This will be the third water wall and is specifically for technical CWC(-I)s only. The concept is to create two stringers to which the CWC(-I)s are individually attached. This water is not needed for months so it is stowed behind the other stowage in the rack bay. In addition to the technical CWC(-I)s there are a couple of condensate CWCs/CWC(-I)s that also need to be relocated for future ops. You will find those listed at the end of the message.

> **NOTE: There have been a few leaks recently. Be careful when handling the CWC(-I)s and minimize pressure to the fittings to avoid leaks.**

Procedure:

1. Retrieve two long bungees from ISS deployed.
2. Retrieve 4 plastic zip ties and 31 velcro cable ties from NOD1O4_C1 in 0.5 CTB S/N 1363.
3. Rotate PMM1A2 RSP (straps, 2).
4. Temp stow 2.0 CTB S/N 1005, 2.0 CTB S/N 1008, 2.0 CTB S/N 1056, 3.0 CTB S/N 1082, M-02 Bag S/N 1039 and M-02 Bag S/N 1040 from PMM1A2 rack bay.

5. Install zipties into the frog eye locations. There should be 4 frog eyes for each rack bay. If there aren't any frog eyes, look for accessible structure that you could attach a ziptie or bungee. See photo1.

Photo 1 – Ziptie attached to frog eye

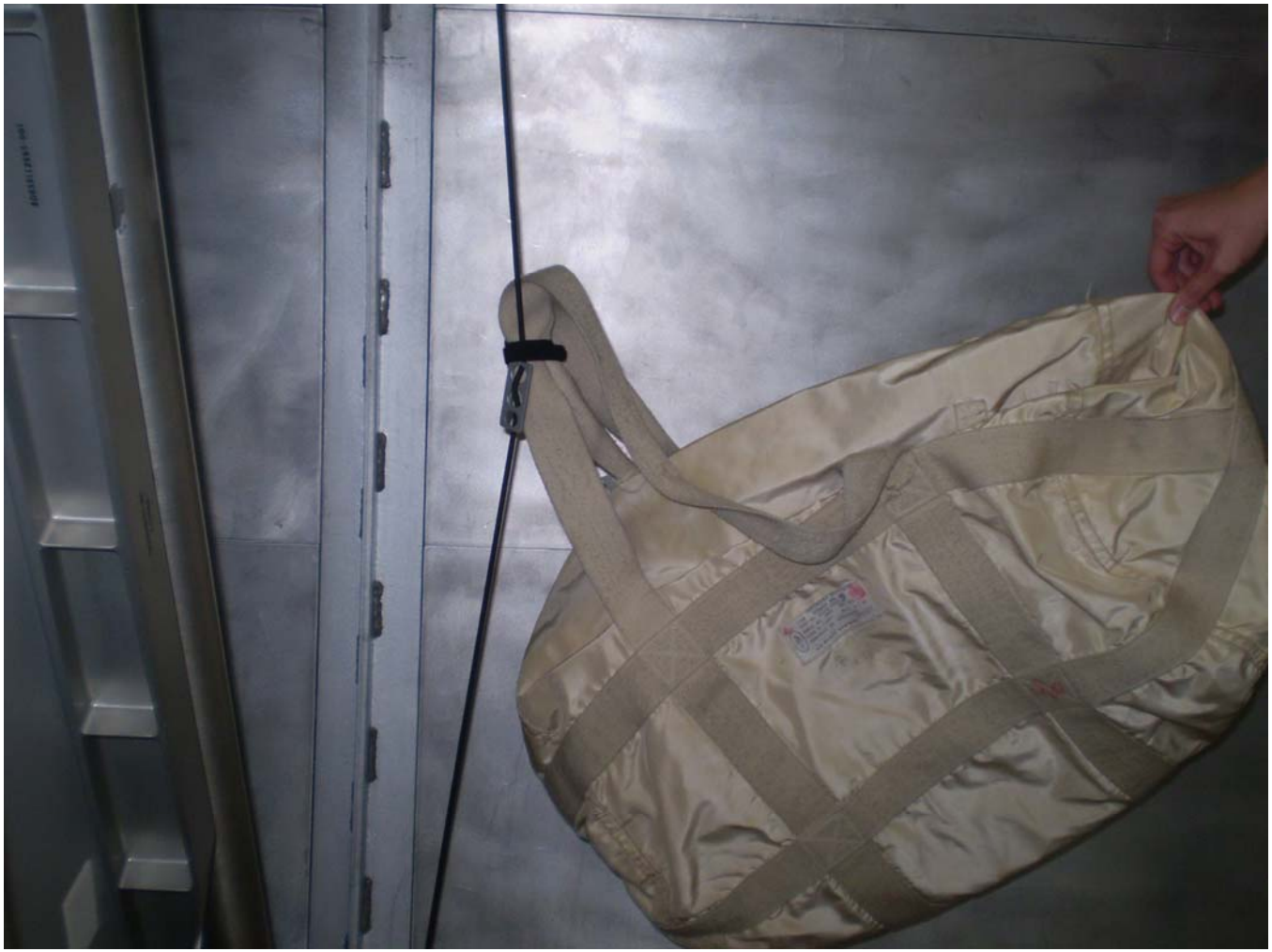
6. Attach one bungee to the left upper and lower zipties. Repeat for the right upper and lower zipties. See photos 2 & 3.

Photo 2 - Bungee attached to Upper Ziptie

Photo 3 - Bungee attached to Lower ziptie

7. Relocate CWC(-I)s listed in Table A.
8. Attach CWC(-I)s to either the left or right bungee using Velcro cable ties through the CWC(-I) handles. See photo 4.

Photo 4 – CWC (not CWC-I shown) attached to bungee with Velcro cable tie



9. Restow 2.0 CTB S/N 1005, 2.0 CTB S/N 1008, 2.0 CTB S/N 1056, 3.0 CTB S/N 1082, M-02 Bag S/N 1039 and M-02 Bag S/N 1040 in front of the CWCs.
10. Rotate the RSP up (straps, 2).
11. Relocate the CWCs listed in Table B. We prefer to keep the CWCs/CWC(-I)s with condensate separate from the technical water.
12. Report your results to MCC-H. We will update IMS for you.

Table A: Technical CWCs

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	1	**JLP1P1 Rack Front**	CWC-Iodine	1025 1028	00095329J 00095332J	2	**PMM1A2 Rack Bay**	
	2	**JLP1P2 Rack Front**	CWC-Iodine	1023 2009 2081 2095	00095327J 00107911J 00113153J 00113167J	4		
	3	**JLP Deployed**	2.0 CTB	1111	010699J	1	**NOD3A2**	Remove CWC(-I)s from CTB per 3.1
	3.1		CWC-Iodine	2013 2028 2031 2038	00107925J 00107915J 00107917J 00107934J	4	**PMM1A2 Rack Bay**	
	4	**JLP Deployed**	2.0 CTB	1098	010686J	1	**NOD3A2**	Remove CWC(-I)s from CTB per 4.1
	4.1		CWC-Iodine	2006 2008 2040 2053	00107908J 00107910J 00107942J 00113125J	4	**PMM1A2 Rack Bay**	

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	5	**PMM1S1 Rack Front**	CWC-Iodine	2043 2054	00107943J 00113126J	2	**PMM1A2 Rack Bay**	
	6	**PMM1S3 Rack Front**	2.0 CTB	1126	010714J	1	**NOD3A2**	Remove CWC(-I)s from CTB per 6.1
	6.1		CWC-Iodine	1022 2068 2061 2065	00095326J 00113140J 00113133J 00113137J	4	**PMM1A2 Rack Bay**	
	7	**PMM1A2 Rack Front**	CWC-Iodine	2058	00113130J	1		
	8	**PMM1F3 Rack Front**	CWC-Iodine	2069	00113141J	1		
	9	**PMM Endcone?**	3.0 CTB	1073	004258J	1	**NOD3A2**	Remove CWC(-I)s from CTB per 9.1
	9.1		CWC-Iodine	2010 2074 2077 2078	00107903J 00113146J 00113149J 00113150J	4	**PMM1A2 Rack Bay**	
	10	**???**	CWC-Iodine	2002 2111 2112 2113 2073	00107904J 00115241J 00115242J 00115243J 00113145J	5		These CWC(-I)s were not found during recent activities, but we believe they are on ISS, perhaps in the JLP or in the PMM hanging on a rack front somewhere or hidden in a CTB. If found, please relocate and report the S/Ns that were located.

Table B: Condensate CWC/CWC-Is

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	11	**JLP1P2 Rack Front**	CWC-Iodine	1008	00095362J	1	**NOD2O2**	Condensate
	12	**JLP1P2 Rack Front**	CWC	1094	00073876J	1	**NOD2O2**	Condensate

Increment 28: PMM Endcone & PL Cleanout

Goal: To relocate cargo from the PMM Endcone. To relocate PL hardware from PMM to science modules.

Duration: 10 hours

Procedure:

1. Relocate items per Table A in the order listed. In some cases you are clearing out a locker space to make room for a later item to move in.
2. Report your results to MCC-H. We will update IMS for you.

Table A: PMM Endcone Hardware

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	1	**PMM Endcone strapped to the wall**	1.0 CTB: SPICE Gas Bottle Case 1	1169	006665J	1	**JPM1A5_E2/F2**	**UNZIP** shelf between E2 and F2. Another 1.0 CTB will be added later during this message.
	2		1.0 CTB: SPICE Gas Bottle Case 2	1066	003868J	1		
	3		1.0 CTB: MSG / Experiments	1288	010624J	1	**LAB1P4_B2**	
	4		1.0 CTB: MSG Gloves	1373	CTB00039J	1	**COL1F2_A1/B1**	
	5		1.0 CTB: Food Kit - 2	1142	004136J	1	**NOD1P1**	Coffee/Tea from Exp 25/26..extra for anyone
	6		1.0 CTB: Food Kit - 2	1324	010660J	1		Coffee/Tea from Exp 26…extra for anyone
	7		1.0 CTB: Food Kit	1260	010596J	1	**NOD3A2**	**UNPACK** per 7.1.

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	7.1		0.5 CTB: Food Kit	1119	006568J	1	**NOD1P1**	Coffee/Tea from Exp 26…extra for anyone
	8	**LAB1O2_B2**	ARIS Vacuum Exhaust	001044	00102668M	1	**LAB1O5_G**	
	9	**PMM Endcone strapped to the wall**	1.0 CTB: VCAM GAS SUPPLY- 2	1101	004095J	1	**LAB1O2_B2**	
	10		1.0 CTB: EMU HARDWARE	1201	006697J	1	**NOD3A2**	**UNPACK** per 10.1-10.5.
	10.1		EMU Comfort Patch Kit (ziplock)	-	-	1	**A/L1D1_B1**	Kit is a ziplock
	10.2		EMU Ion Filter	1002 1005	00133932J 00133931J	2	**NOD1P4_A** 0.5 CTB: EMU Water Processing Kit, S/N 1086, B/C 006535J	
	10.3		Small EVA Trashbag	1015	-	1	**A/L1O0 Behind Closeout** 1.0 CTB: EVA Miscellaneous Tools #1, S/N 1075,B/C 004069J	

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	10.4		Wrist Mirror	1013 5048 5156 5158 5168 5171	-	6	**A/L1O1** M-02 Bag: EMU Arms,Legs,Boots ,sizing rings,etc, S/N 1010, B/C 003027J outside pocket	
	10.5		Adjustable Thermal Mitten (Ziplock)	030 031	-	2	**A/L1O1** M-02 Bag: EMU Arms,Legs,Boots ,sizing rings,etc, S/N 1010, B/C 003027J	
	11	**PMM1F4_B1**	0.5 CTB: MSG Resupply	1399	CTB00305J	1	**COL1O4_D2**	
	12	**PMM1F4_D1**	CBPD Resupply Kit	1002	HRF10893J	1	**JPM1A5_D1**	**REMOVE** bubble wrap and place in common trash.
	13	**PMM1S4_B1**	1.0 CTB: CIR Bottles	1332	010668J	1	**JPM1A5_E2/F2**	
	14	**PMM1S4_D1**	Bubble Bag: CHECS-EHS	-	ZIP00322K	1	**LAB1D4_K2**	
	15	**PMM1S4_G2**	0.5 CTB: SSPCM	1296	010477J	1	**LAB1P4_J2**	
	16		0.5 CTB: BSSPCM	1386	CTB00292J	1		
	17		Blood Collection Kit	1034	HRF10100J	1	**COL1O4_G**	

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	18		DECLIC Removable Hard Disk Drive	001	00106347E	1	**JPM1F5_J2** 0.5 CTB, S/N 1229, B/C 010410J	Packed together in a bubblewrap bag…**DISCARD** the bubblewrap in common trash.
	19		WORF Lower Restraint, Left	001001	00005239K	1	**LAB1P2_J1** 1.0 CTB, S/N 1190, B/C 006686J	
	20		WORF Lower Restraint, Right	001001	00005240K	1		
	21		MARES Ziplock bag	-	00134838K	1	**COL1F3** Stowage Drawer	
	22	**PMM1S4_G2**	1.0 CTB: EVA Tools	1152	004146J	1	**NOD3A2**	**UNPACK** per 22.1-22.3. Leave the divider in the CTB.
	22.1		Handrail Gap Spanner	1067 1079 1080 1092 1095 1101 1102	-	7	**A/L Tether Staging Area**	
	22.2		Nitrile Gloves	-	-	13	**PMM1P2_G**	
	22.3		Scraper Debris Container	1002 1003 1004 1005 1007	-	5	**JLP1A2_D** 3.0 CTB: SARJ Hardware, S/N 1061, B/C 004246J	

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	23	**PMM1S1_K2**	MDCA Fiber Arm in foam cushion	-	-	2	**COL1O4_D1** 3.0 CTB: FCF, SN 1111, B/C 006768J	
	24	**COL1O2_E1**	Baseplate Ballast Assembly	0007 0051 0056 0059 0096 0119	- - - - BOE00201J BOE00200J	6	**PMM1S4_K2**	
	25		Lamp Housing Assy	0142	-	1		
	26	**COL1O2_D1**	0.5 CTB	1155	006604J	1	**NOD3A2**	**UNPACK** per 26.1-26.2.
	26.1		A31p UltraBay Wallet	1016 1017	HRF09397J HRF09398J	2	**LAB1P2_L2**	
	26.2		PCS PWR Supply (2.6 AMP)	1066	HRF00262J	1		
	27	**PMM1P4_D1**	0.5 CTB: MSG Rear Filters – 12	1333	010514J	1	**LAB1O5_B1**	
	28		1.0 CTB: MSG Front Filter – 26	1179	006675J	1	**COL1F2_A2/B2**	If double coldbag 1009 has not yet xferred to Shuttle, **REMOVE** the coldbag and **TEMP STOW** on the COL1F2 rack front.
	29		MSG E-box	01-449	00002274M	1	**COL1O2_E1**	

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	30	**PMM1P2_C1**	MSL Gas Supply in bubblewrap	001	00084589M	1		
	31	**PMM1S2_D1**	0.5 CTB: Misc Payloads	1072	003954J	1	**COL1O2_D1**	
	32	**PMM1S3_B2**	1.0 CTB: ISS Photo/TV Resupply Kit	1070	004064J	1	**NOD3A2**	**UNPACK** per 32.1-32.9.
	32.1		D2Xs Camera	1140 1141	00087333J 00087334J	2	**Deploy per crew pref**	
	32.2		ICP I/F Cable 22ft	1011	00139672J	1	**COL1O2_B1** 1.0 CTB: VIDEO CABLES AND ACCESSORIES, S/N 1069, B/C 003857J	
	32.3		Firewire Cable 4-4 pin 5m	1004	00139671J	1		
	32.4		Firewire Cable 4-4 pin 5m	1003	00139719J	1	**Deploy with Lab MPC**	
	32.5		G1 Camcorder	1008 1009	00049019J 00049020J	2	**Crew Pref**	
	32.6		G1 Camcorder Hood	1003 1004	00133996J 00133997J	2	**Install on any G1 camcorder without a hood**	
	32.7		AA Battery	-	-	80	**NOD2P4** 0.5 CTB:	

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	32.8		Mini DVCAM Tape	-	-	80	PhotoTV Consumables, S/N 1360, B/C CTB00265J	If 0.5 CTB 1360 is getting full, you can create a new 0.5 CTB for tapes. **LABEL** the CTB "P/TV Tapes". **REPORT** S/N of CTB used and stow at NOD2P4.
	32.9		4GB EVA Flash Card Pouch	-	-	1		
	33	**PMM1P4_D2**	Elite-S2 Marker Kit 1 & 2	-	00134487E 00134488E	2	**LAB1O1_D2**	Packed together in a bubblewrap bag…**DISCARD** the bubblewrap in common trash.
	34		Headset Control Unit	0006	HCU00000J	1	**NOD1O4_B1** 0.5 CTB: FCE SPARES, S/N 1220, B/C 010401J	
	35		P1 Fuse	202 205	-	2	**JLP1A1_B1** 2.0 CTB: DISPLAY AND CONTROL PANEL, S/N 1020, B/C 002979J	
	36		Tape and Velcro Caddy	1007	-	1	**A/L Crewlock in Crewlock Staging Bag**	**DO NOT STOW** until after final ULF6 EVA. .

✓	Ref #	Current Location	Item	S/N	B/C	Qty	New Location	Notes
	37		ITCS Coolant Sampling Adapter	000003 000011	00118099J 00088238J	2	**LAB1S5_D1**	Packed together in a bubblewrap bag…**DISCARD** the bubblewrap in common trash.
	38		Recycle To FCPA	001	00097020K	1	**JLP1P2_A1**	
	39		Nitrile Gloves	-	-	7	**PMM1P2_G**	
	40	**NOD1O4_F1**	Heater Controller	96-D0005	00133406J	1	**PMM1S2_B1**	
	41		Avionics Air Assembly in foam cushion	0032	00050233K	1	**PMM1F4_D2**	
	42		Avionics Air Assembly	0033	00003674K	1		May be together in one ziplock.
	43		MSG AAA FILTER	-	10MSG012M	1		
	44	**PMM Endcone (loose)**	1.0 CTB: PCS Hardware	1144	004138J	1	**NOD1O4_F1**	
	45	**PMM1P4_B2**	BP/ECG Kit	1003	00018331J	1	**LAB1D4_G1**	

MSG 131 - FD12 Crew Choice Downlink Opportunities

Please allow 1-2 min to lock up on K-Band. Check with MCC before starting playback.

Post-Sleep Morning of FD12

TDRS	AOS	LOS	Delta (min)	Notes
W-171	10/11:27	10/12:01	34	
E-TDS	10/12:12	10/12:37	25	
W-171	10/13:02	10/13:34	32	
E-TDS	10/13:42	10/14:14	32	Overlaps with Window 4 Playback

Pre-Sleep Evening of FD12

TDRS	AOS	LOS	Delta (min)	Notes
W-171	11/00:30	11/00:40	10	Time overlaps with ISS Post-EVA-Tagup
E-TDS	11/01:12	11/01:19	7	Time overlaps with ISS OCA PFC
E-TDS	11/02:42	11/03:06	24	

END OF PAGE 1 OF 1, MSG 131

Flight Day 12 Stowage Notes

O2 RECONFIG TO XFER (PLT/MS4) - 147/12:31						
#	Location	Item Name	P/N	S/N	B/C	Notes
Type: Standard						
1	**LAB1P5_C1**	Clean Room Vinyl Tape	3M/1251			
2	**NOD1O4_C1** 0.5 CTB, S/N 1159, B/C 006608J	Clean Room Gloves	SEG33116979-301			
3	**NOD1P4_A2**	Teflon (FEP) Bags	LB602:0404		00131043K	
4	**NOD1P4_D**	ORCA O2 Outlet Line	683-62472-1	001	00048269J	
5	**NOD1D4_G2 Drawer 3** Drawer 3, S/N 1003	Inspection Mirror	SKG33117562-923			