STS-114/LF1

FD 10 Execute Package

MSG	Page(s)	Title
116A	1 - 14	FD10 Flight Plan Revision **(pdf)**
117	15 - 16	FD10 Mission Summary **(pdf)**
118	17 - 31	FD10 Transfer Message **(pdf)**
119	---	FD10 US PAO Event Summary **(pdf - Electronic Only)**
120	---	FD10 JAXA PAO Event Summary **(pdf - Electronic Only)**
121A	32	FD10 Water Activity Summary **(pdf)**
122	33 - 34	FD10 LiOH Cue Card **(pdf)**
123A	35 - 36	Proposed PGSC Network **(pdf)**
124	37 - 39	FD09 MMT Summary **(pdf)**

Approved by FAO: *Linda DeLapp*
OPS Plan: *Joe Aldape*

Last Updated: Aug 4 2005 2:49AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX

MSG NO.	TITLE
116	FD10 Flight Plan Revision
117	FD10 Mission Summary
118	FD10 Transfer Message
119	FD10 US PAO Event Summary
120	FD10 JAXA PAO Event Summary
121	FD10 Water Activity Summary
122	FD10 LiOH Cue Card
123	Proposed PGSC Network
124	FD09 MMT Summary (electronic only)

1. Post-Sleep Cryo Config:

   A15 CRYO TK5 HTRS H2 A, B (two) - AUTO

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

2. We've uplinked a new LiOH cue card (MSG 122). We'd like you to remove and replace the old cue card with the new one. Please continue to report decal numbers of LiOH canisters used for changeouts. There are no LiOH can changeouts required this morning.

   Also, due to previous reports of a release of LiOH dust, use of goggles and mask is recommended prior to changeout.

3. DTV playback time has been added to MS1 at MET 8/15:55. The following are the playback times from highest to lowest priority:

   GMT 215/14:31 to 14:38 Cabin Blanket Survey
   215/09:26 to 09:30 OBSS Tile Board Survey
   215/09:45 to 09:56 OBSS Tile Board Survey

4. In support of anticipated equipment transfer to ISS, please report the S/N of the EVA Camera flashes that have been used for EVA. This will help to ensure that the correct (non vacuum exposed) flashes are transferred to ISS.

5. The Wing Leading Edge Sensors (WLES) continue to function nominally. Units in the cold (STBD) wing continue to respond. Since our last report, the WLES team completed their initial round of systems characterization tests (designed to confirm the sensor settings for on-orbit operations). On-orbit operations began a few hours before crew wake on FD09. We continue to be pleasantly surprised by system performance. On-orbit operations are planned to continue through WLES stow on FD13.

6. It is my pleasure to announce that MISSE 5 is powered on and we have begun to receive preliminary telemetry data. MISSE 5 was configured to do automatic data delivery via the internet at 215/20:44 GMT.

   Thanks for the GREAT support and please extend our gratitude to the crew!!!
   DoD Representative,
   Capt. Tobin

7. We have scheduled the crew choice downlink at MET 8/21:40. We were unable to satisfy your request for the event to fall over daylight and provide DTV downlink capability. Based on our understanding of your priorities, we scheduled the event to occur during a daylight pass over TDRS Z which only supports analog TV.

8. There are NO Exercise constraints for FD10.

9. REPLACE PAGES 2-20A THROUGH 2-21B AND 3-104 THROUGH 3-111.

08/03/05 20:49:11 **REPLANNED**

GMT 08/04/05 (216): 03 04 05 06 07 08 09 10 11 12 13 14

MET Day 008: 12 13 14 15 16 17 18 19 20 21 22 23 009/00

FD10

Group	Crew	Activities (in time order)
STS-114	CDR COLLINS	SLEEP; FD10 POST SLEEP; O2 INIT; CWC; INIT 14; EXERCISE; CWC; TERM; COND; C/O; CWC; INIT 15; PAO EVENT; CWC; TERM; O2 TERM; CWC; INIT 16; JAXA PAO; CWC; TERM; XFER; CWC; JOINT MEAL; OFF DUTY; CREW; CHOICE; OFF DUTY
STS-114	PLT KELLY	SLEEP; SALIVA; POST SLEEP; ILLUM; OFF; MBS; UNGRPL; MBS B/O; MNVR TO MATED MPLM; MPLM; GRPL; XFER; EXERCISE; RCC PLUG DEMO; JOINT MEAL; OFF DUTY; CREW; CHOICE; OFF DUTY
STS-114	MS1 NOGUCHI	SLEEP; POST SLEEP - GIRA; EXERCISE; ASPRN; VTR PB; P/TV05; S/U; TRANSFER; JAXA PAO; PAO CC S/U; JOINT MEAL; OFF DUTY; CREW; CHOICE; OFF DUTY
STS-114	MS2 ROBINSON	SLEEP; POST SLEEP; EXERCISE; POST SLEEP; ASPRN; MPLM POST EVA XFER; PAO EVENT; TRANSFER; JOINT MEAL; OFF DUTY; CREW; CHOICE; OFF DUTY
STS-114	MS3 THOMAS	SLEEP; POST SLEEP; REBA-T; O2 TRANSFER S/U; EXERCISE; TRANSFER; RCC PLUG DEMO; JOINT MEAL; OFF DUTY; CREW; CHOICE; OFF DUTY
STS-114	MS4 LAWRENCE	SLEEP; SALIVA; LOG; POST SLEEP; XFER REVIEW; MBS; UNGRPL; MBS B/O; MNVR TO MATED MPLM; MPLM; GRPL; TRANSFER; RCC PLUG DEMO; JOINT MEAL; OFF DUTY; CREW; CHOICE; OFF DUTY
STS-114	MS5 CAMARDA	SLEEP; SALIVA; LOG; POST SLEEP; XFER REVIEW; O2 TRANSFER S/U; XFER; PAO EVENT; XFER; XFER 2 CWC; EXERCISE; JOINT MEAL; OFF DUTY; CREW; CHOICE; OFF DUTY
ISS	ISS CDR KRIKALEV	SLEEP; POST SLEEP-ISS; DPC; PREP WORK; XFER REVIEW; MPLM POST EVA XFER; TVIS; VELO + HC; JOINT MEAL; СОЖ; IMS; ♣; CPA INSTALL
ISS	FE-1 PHILLIPS	SLEEP; POST SLEEP-ISS; DPC; PREP WORK; ⊕; O2 TRANSFER S/U; EXERCISE RED; TVIS; ♦; JOINT MEAL; ®; IFM MPLM LHA RMV; ♣; CPA INSTALL

DAY/NIGHT	
ORBIT	135 136 137 138 139 140 141 142 143
TDRS	E -46.0
	W -171.0
	Z -275.0
ORB ATT	BIAS -XLV -ZVV

NOTES

⊕CREW LOCK

♦CMS-TVIS WKLY-MNT_CT

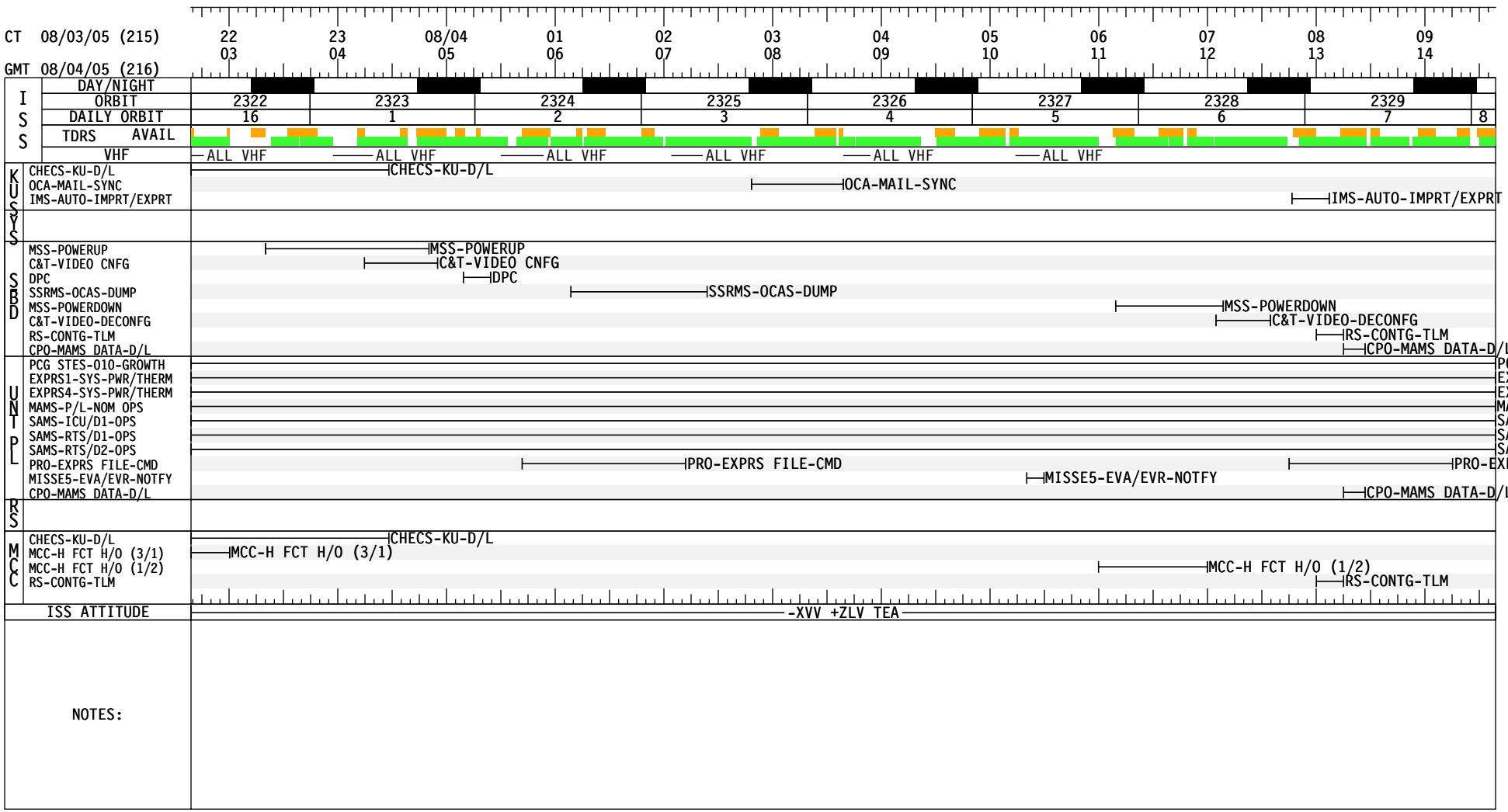
♣CREW CHOICE

®MPLM-BBA-R&R

2-20A

FLT PLN/114/FLIGHT

ISS-11 SHORT TERM PLAN PAYLOAD PAGE



NOTES:

08/03/05 20:49:11 **REPLANNED**

GMT 08/04/05 (216) 15 16 17 18 19 20 21 22 23 08/05 01 02

FD10 009/00 01 02 03 04 05 06 07 08 09 10 11 12

MET Day 009

STS-114	CDR COLLINS	OFF DUTY	ILLUM	ON	PRE SLEEP	OIU*	PRE SLEEP	PMC OCA	PRE SLEEP	ISS EXTERNAL SURVEY													POST SLEEP	
	PLT KELLY	OFF DUTY	CNFG MPLM RACKS			PRE SLEEP				SLEEP												SALIVA	POST SLEEP	
	MS1 NOGUCHI	OFF DUTY	PRE SLEEP - GIRA							SLEEP													POST SLEEP - GIRA	
	MS2 ROBINSON	OFF DUTY	PRE SLEEP							SLEEP													POST SLEEP	
	MS3 THOMAS	OFF DUTY	PRE SLEEP							SLEEP													POST SLEEP	
	MS4 LAWRENCE	OFF DUTY	CNFG MPLM RACKS			PRE SLEEP				SLEEP												SALIVA	LOG	POST SLEEP
	MS5 CAMARDA	OFF DUTY	PRE SLEEP			XFER	TAGUP	XFER	CALL	PRE SLEEP	SLEEP											SALIVA	LOG	POST SLEEP
ISS	ISS CDR KRIKALEV	♣	DAILY PLN RVW		PREP WORK	DPC	⊕	XFER	TAGUP	PRE SLEEP	SLEEP													
	FE-1 PHILLIPS	♣	IFM MPLM LHA RMV			DPC		PRESLEEP-ISS			SLEEP													

DAY/NIGHT

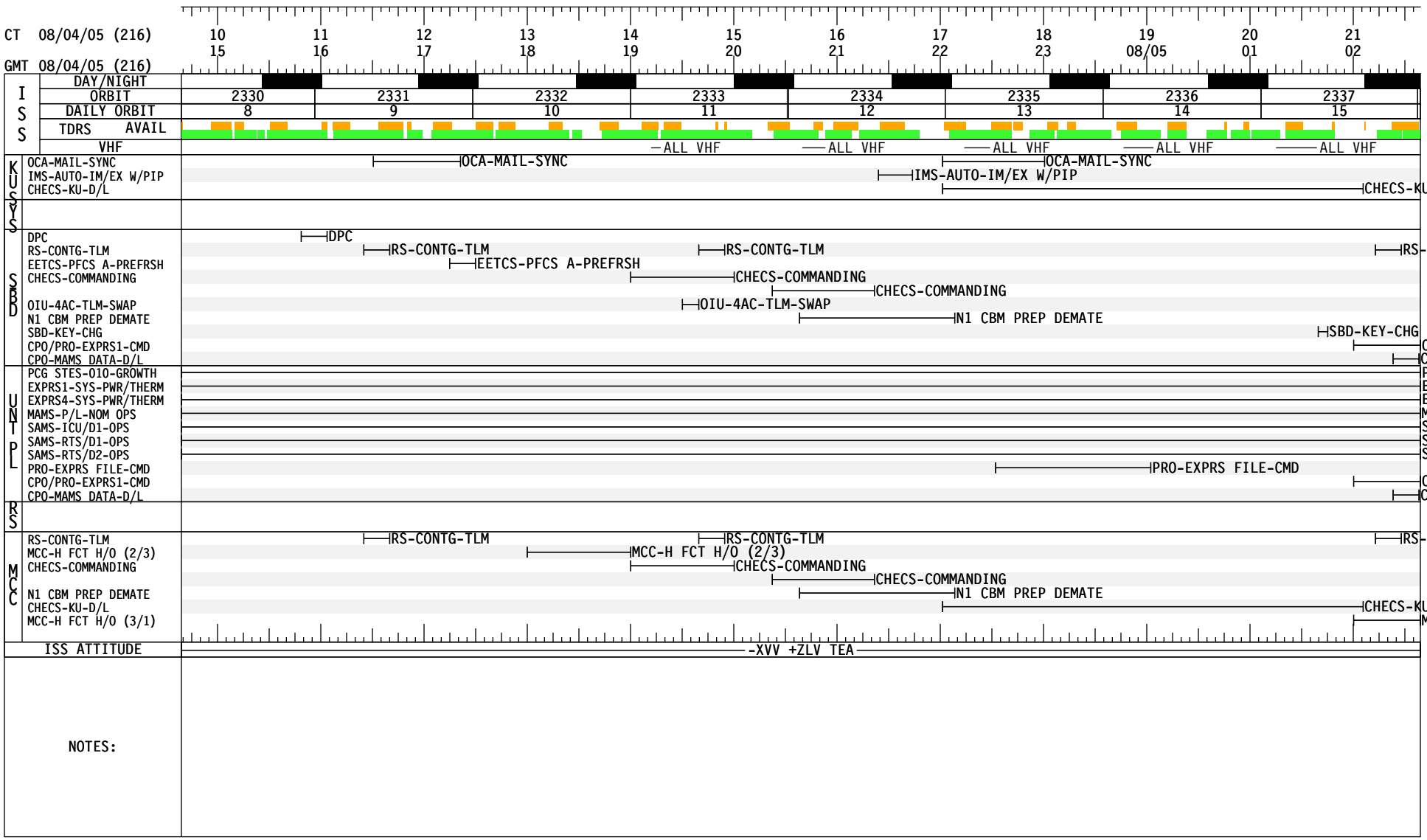
ORBIT 143 144 145 146 147 148 149 150

TDRS E -46.0 W -171.0 Z -275.0

ORB ATT BIAS -XLV -ZVV

NOTES ♣CPA INSTALL ⊕PRE SLEEP *ACT

ISS-11 SHORT TERM PLAN PAYLOAD PAGE



NOTES:

STS-114 LF1 (FD 10)

REPLANNED

GMT Date 08/04 (216) | TDRS E W Z | ORB | MET Day 008 | STS ATI

FD10

ORB: 135, 136, 137

BIAS-XLV-ZVV

GMT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
12:00	SLEEP	SLEEP	SLEEP	SLEEP	
03:00		SALIVA COLLECT (ORB OPS, DSO)			
13:00		**FD10 EZ ACTIVITIES** HARD REBOOT PGSCs (not WLES) OCAC FILTER INSPECT TEPC (STATUS CK) (ORB OPS, CREW SYS) L17 Check MCIU Filter Screen			
04:00	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS) GALLEY MORNING CONFIG (ORB OPS, ECLS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
14:00		CONFIG ODF DRAG THROUGHS			
05:00	O2 REPRESS USING PL O2 VLV(INIT) (ORB OPS, ECLS) Steps 1-4,6 SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #14 Ref. MSG 121	CONFIG DTV FOR DNLK L10(MUX) √MUX BYPASS - ACT MUX/VTR/CC PWR - ON		EXERCISE	
15:00			EXERCISE		PERFORM AT START OF MBS UNGRAPPLE: UPLINK β21°+C1,C2,C3+E4 BOX C1 -19<AZ<52 -67<EL<75 BOX C2 -41<AZ<-10 -25<EL<39 BOX C3 -72<AZ<-36 -4<EL<33 BOX E4 -60<AZ<-14 -55<EL<1
06:00	EXERCISE	TV ILLUMINATOR OPS (PHOTO/TV, CUE CARD) ILLUMINATORS OFF - A,B,C,D WS4 MBS PDGF 1 UNGRAPPLE (ROBOTICS, SRMS SRVY SPT) MBS PDGF1 PREGRAPPLE TO ESP2 BACKOFF Ref. MSG 091	TAKE 1 ASPIRIN (325mg) PLAYBACK (DIGITAL) (PHOTO/TV, CUE CARD) KU TDRE (15:57 - 16:22) Ref. MSG 116 Item 3	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) TAKE 1 ASPIRIN (325mg) MPLM POST EVA TRANSFER Ref. MPLM TRANSFER LIST Transfer EVA tools to MPLM Item #725,726,731	
16:00					

STS-114 LF1 (FD 10)

REPLANNED

GMT Date 08/04 (216) | TDRS E W Z | ORB | MET Day 008 | STS ATI

FD10

ORB: 135, 136, 137

STS ATI: BIAS-XLV-ZVV

MS3 THOMAS	MS4 LAWRENCE	MS5 CAMARDA	MCC
SLEEP	SLEEP	SLEEP	
	SALIVA COLLECT (ORB OPS, DSO)	SALIVA COLLECT (ORB OPS, DSO)	
	FLIGHT SLEEP LOG (ORB OPS, DSO)	FLIGHT SLEEP LOG (ORB OPS, DSO)	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	TRANSFER REVIEW Update Transfer List per MSG 118	TRANSFER REVIEW Update Transfer List per MSG 118	
REBA BATTERY RECHARGE (Term) (EVA, EMU MAINT/RECHARGE)			
3.115 O2 TRANSFER SETUP (JOINT OPS, MATED OPS)	WS4 MBS PDGF 1 UNGRAPPLE (ROBOTICS, SRMS SRVY SPT)	3.115 O2 TRANSFER SETUP (JOINT OPS, MATED OPS)	
	MBS PDGF1 PREGRAPPLE TO ESP2 BACKOFF Ref. MSG 091		

STS-114 LF1 (FD 10)

REPLANNED

GMT Date 08/04 (216) | TDRS E W Z | ORB 138 139 140 | MET Day 008 | STS ATI BIAS_XLV_ZVV

CDR COLLINS

16:00
- SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Report Barcode & S/N to MCC
- SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS) Perform CHANGEOUT Ref. MSG 121
- SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #15 Ref. MSG 121

07:00

17:00
- PUBLIC AFFAIRS EVENT KU AVAIL TDRW 17:00-17:20 REF MSG 119

08:00
- SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Report Barcode & S/N to MCC
- O2 REPRESS USING PL O2 VLV(TERM) (ORB OPS, ECLS) Steps 7-10

18:00
- SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #16 Ref. MSG 121

09:00

- PUBLIC AFFAIRS EVENT (JAXA) KU AVAIL TDRW 18:40-19:00 REF MSG 120

19:00
- SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Report Barcode & S/N to MCC
- CWC TRANSFER Xfer 1 CWC bag to ISS

10:00

- MEAL

20:00

PLT KELLY

- MBS PDGF1 PREGRAPPLE TO ESP2 BACKOFF Ref. MSG 091
- 2.620 CONT MNVR TO MATED MPLM PRE-GRAPPLE SETUP (ROBOTICS, CONT OPS)
- 2.621 CONT MATED MPLM GRAPPLE (ROBOTICS, CONT OPS)
- TRANSFER Ref. MPLM TRANSFER LIST
- EXERCISE
- RCC PLUG REPAIR DEMO Ref. MSG 086
- MEAL

MS1 NOGUCHI

- PLAYBACK (DIGITAL) (PHOTO/TV, CUE CARD) KU TDRE (15:57 - 16:22) Ref. MSG 116 Item 3
- P/TV05 ISS INTERNAL OPS (S/U) (PHOTO/TV, SCENES) PAO
- TRANSFER Ref. MPLM TRANSFER LIST
- PUBLIC AFFAIRS EVENT (JAXA) KU AVAIL TDRW 18:40-19:00 REF MSG 120
- DIGITAL PAOCC (PHOTO/TV, SONY PD100) Connect pin mic to MIC PLUG-IN PWR port
- MEAL

MS2 ROBINSON

- MPLM POST EVA TRANSFER Ref. MPLM TRANSFER LIST Transfer EVA tools to MPLM Item #725,726,731
- PUBLIC AFFAIRS EVENT KU AVAIL TDRW 17:00-17:20 REF MSG 119
- TRANSFER Ref. MPLM TRANSFER LIST
- MEAL

MCC

UPLINK
β 21° +C1,C2,C3
BOX C1
-19<AZ<52
-67<EL<75
BOX C2
-41<AZ<-10
-25<EL<39
BOX C3
-72<AZ<-36
-4<EL<33

STS-114 LF1 (FD 10)

REPLANNED

GMT Date 08/04 (216) | TDRS E W Z | ORB 138 139 140 | MET Day 008 | STS ATI BIAS-XLV-ZVV

MET	MS3 THOMAS	MS4 LAWRENCE	MS5 CAMARDA	MCC
16:00	3.115 O2 TRANSFER SETUP (JOINT OPS, MATED OPS)	MBS PDGF1 PREGRAPPLE TO ESP2 BACKOFF Ref. MSG 091	3.115 O2 TRANSFER SETUP (JOINT OPS, MATED OPS)	
		2.620 CONT MNVR TO MATED MPLM PRE-GRAPPLE SETUP (ROBOTICS, CONT OPS)	TRANSFER Ref. MPLM TRANSFER LIST	
		2.621 CONT MATED MPLM GRAPPLE (ROBOTICS, CONT OPS)		
17:00	EXERCISE	TRANSFER Ref. MPLM TRANSFER LIST	PUBLIC AFFAIRS EVENT KU AVAIL TDRW 17:00-17:20 REF MSG 119	
			TRANSFER Ref. MPLM TRANSFER LIST	
	TRANSFER Ref. MPLM TRANSFER LIST			
18:00			CWC TRANSFER Xfer 2 CWC bags to ISS	
	RCC PLUG REPAIR DEMO Ref. MSG 086	RCC PLUG REPAIR DEMO Ref. MSG 086		
19:00			EXERCISE	
	MEAL	MEAL	MEAL	
20:00				

STS-114 LF1 (FD 10)

REPLANNED

GMT Date 08/04 (216) | TDRS E W Z | ORB | MET Day 008 | STS ATI | BIAS-XLV-ZVV

CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
MEAL	MEAL	MEAL	MEAL	
OFF DUTY	OFF DUTY	OFF DUTY	OFF DUTY	
CREW CHOICE VIDEO KU AVAIL TDRZ 21:22-21:42 Ref. MSG 116 Item 7	CREW CHOICE VIDEO KU AVAIL TDRZ 21:22-21:42 Ref. MSG 116 Item 7	CREW CHOICE VIDEO KU AVAIL TDRZ 21:22-21:42 Ref. MSG 116 Item 7	CREW CHOICE VIDEO KU AVAIL TDRZ 21:22-21:42 Ref. MSG 116 Item 7	
OFF DUTY	OFF DUTY	OFF DUTY	OFF DUTY	

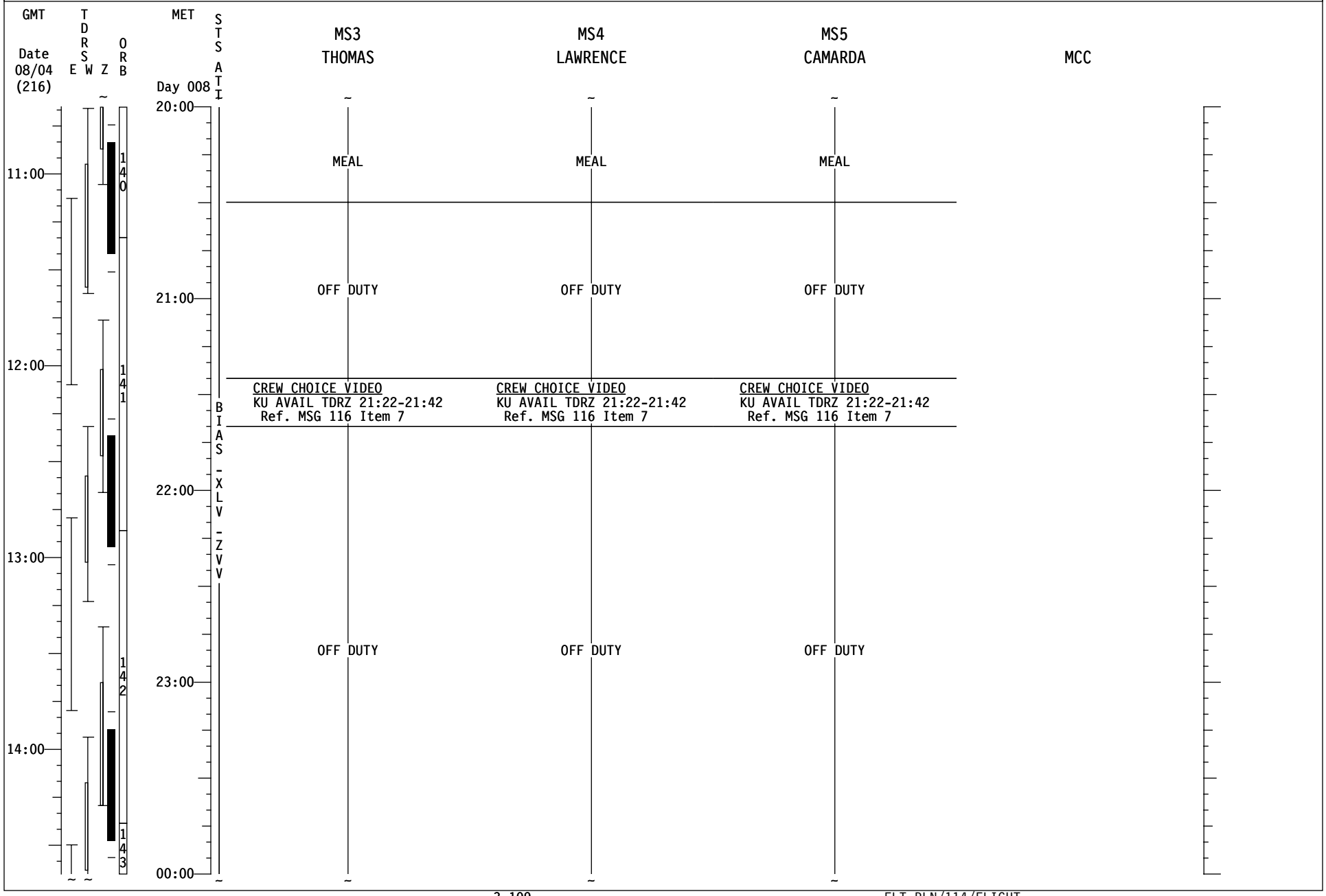
GMT: 11:00, 12:00, 13:00, 14:00

MET: 20:00, 21:00, 22:00, 23:00, 00:00

ORB: 140, 141, 142, 143

STS-114 LF1 (FD 10)

REPLANNED



STS-114 LF1 (FD 10)

REPLANNED

GMT Date 08/04 (216) | TDRS E W Z | ORB | MET Day 009 | STS ATI

CDR COLLINS | PLT KELLY | MS1 NOGUCHI | MS2 ROBINSON | MCC

00:00 — OFF DUTY (CDR, PLT, MS1, MS2)

15:00 — ORB 143

TV ILLUMINATOR OPS
(PHOTO/TV, CUE CARD)
ILLUMINATORS ON - A,B,C,D

1.260 CONFIG MPLM RACKS FOR ENTRY
(S&M, NOMINAL)

01:00 — PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) (CDR)

16:00 — ORB 144

BIAS-XLV-ZVV

OIU ACTIVATION (ORB OPS, OIU)
OIU-1 Step 3 only

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) (MS1)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) (MS2)

02:00 — PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) (CDR)

GALLEY OVERNIGHT CONFIG
(ORB OPS, ECLS)

17:00 — √ HUM SEP FOR H2O ACCUMULATION

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) (PLT)

CONFIG ODS DRAG THROUGHS FOR SLEEP

NETMEETING SETUP
(ORB OPS, PGSC) - PMC

OCA-PMC

03:00 — PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) (CDR)

18:00 — ORB 145

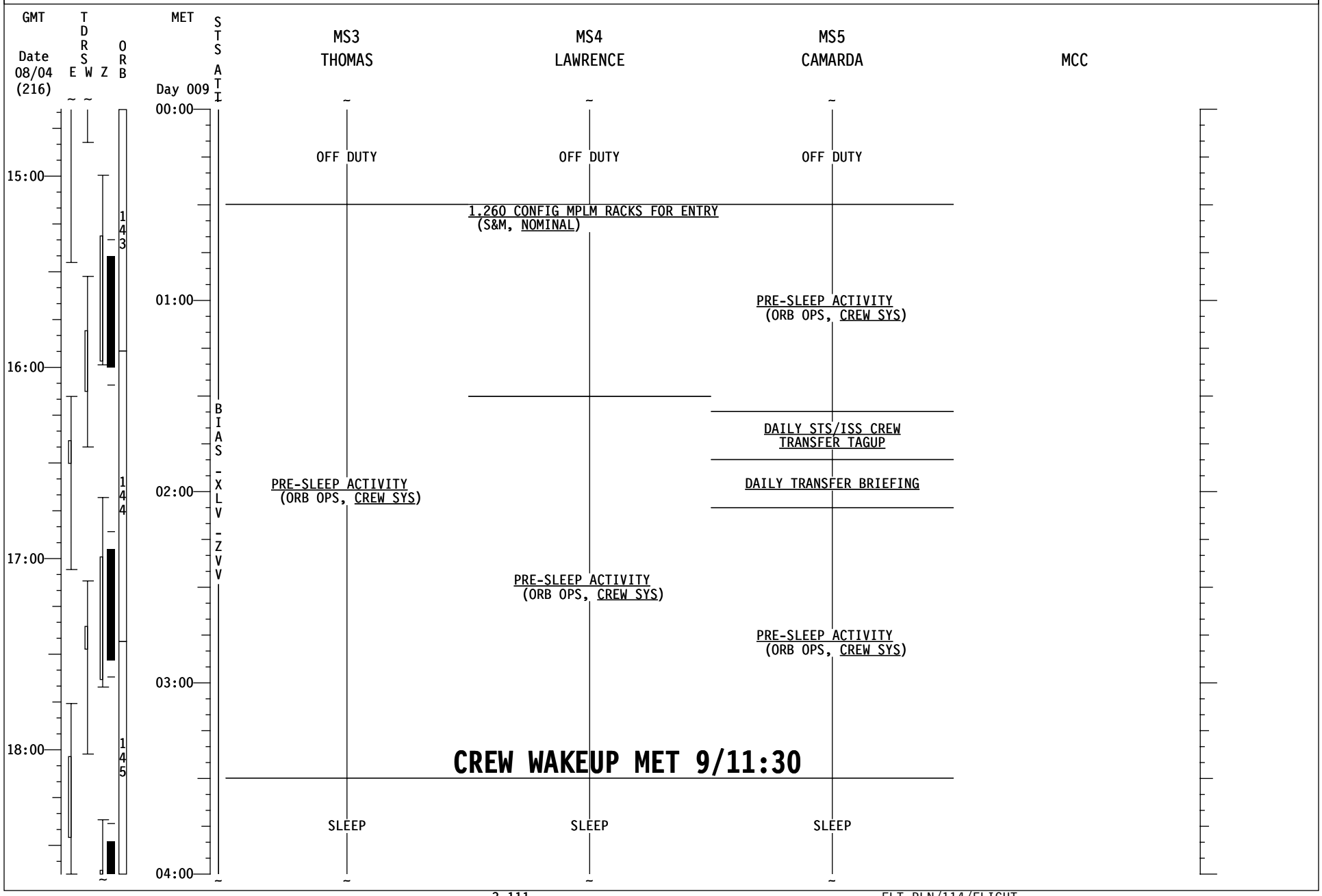
CREW WAKEUP MET 9/11:30

SLEEP (CDR, PLT, MS1, MS2)

04:00

STS-114 LF1 (FD 10)

REPLANNED



Good Morning Discovery!

Thank you for yesterday. Yesterday was the first EVA to accomplish a shuttle repair and it marked a milestone for robotics because one crew member had the opportunity to fly both the SRMS and SSRMS in the same day. The Tile Board Survey and the Window 1 blanket survey were perfect. The day was a glorious day for space exploration. Again, thank you.

For your information, your demonstration of "how to floss the shuttle's teeth" was broadcast live on every major network!

Transfer is going well, so don't get so wrapped up in today's transfer that you work through your off duty time.

We are still planning that Flight Day 11 will, at a minimum, maintain the MPLM Ops. It is still to be decided if anything else will be added. Stay tuned.

Enjoy today!

ISS Summary

ESP2 is powered on and looking good. The upcoming truss flight folks are grateful to have the spares on ISS.

YOUR CURRENT ORBIT IS: 194 X 188 NM

NOTAMS:

EDWARDS (EDW) - LAKEBED RWY 15 GREEN, RWY 18 CLOSED
WHITE SANDS (NOR) - LAKEBEDS GREEN
OCEANA (NTU) - RWY 23L/05R CLOSED
HALIFAX (YHZ) - RWY 06/24 CLOSED
GUAM (GUA) - RWY 06L/24R CLOSED
RIO GALLEGOS (AWG) - NOT APPROVED
ELMENDORF (EDF) - RWY 06/24 CLOSED
TINDAL (PTN) - TACAN TDL 70 UNUSABLE

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 141 - 8/21:33
EDW22 ORB 157 - 9/22:00

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

POST-TI OMS QUANTITIES(%)

L OMS OX = 35.2 R OMS OX = 36.6
FU = 35.6 FU = 37.3

SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:	WITH MPLM	NO MPLM
OMS	319 FPS	340 FPS
ARCS (TOTAL ABOVE QTY1)	28 FPS	31 FPS
TOTAL IN THE AFT	347 FPS	371 FPS
ARCS (TOTAL ABOVE QTY2)	58 FPS	63 FPS
FRCS (ABOVE QTY 1)	27 FPS	29 FPS
AFT QTY 1	81 %	81%
AFT QTY 2	43 %	43%

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

Good morning Wendy, Charlie, and crew!

Welcome to your last day of MPLM transfer!! We bet you are as excited as we are!

Today, we have uplinked the awaited Middeck Transfer List changes (resupply and return) and two additional items to the MPLM Return Transfer List. See below for changes. The Middeck Return Location Sort is also attached to this message.

The Transfer List Excel file, LF1_TransferList_FD10.xls, is located on the KFX machine in **C:\OCA-up\transfer.**

For ISS, the Transfer List Excel file, LF1_ TransferList_FD10.xls, is located in **K:\OCA-up\transfer.**

<u>EVA Items to Transfer</u>
Items 715 (Excess Integration Bag), 725 (MISSE PEC), 726 (MISSE PEC), 731 (Safety Tethers)

<u>Transfer Notes</u>
Middeck Stowage will uplink the middeck 5-MLE bag drawings tomorrow.

If the serial number of a new middeck resupply item is different than the Transfer List, transfer the item and call down the actual serial number to MCC-H.

<u>Changes to the Transfer List are noted below</u>
Middeck Resupply
- Items 808-810.1: Items added to resupply (Real-Time Additions)

Middeck Return
- Item 502.1: Item added to Return Bag 502
- Item 503.1: Item added to Return Bag 503
- Item 506: Location change
- Item 800 and 807 (and 482.4): Location change (Real-Time Additions)
- Items 811-815.3: Items added to return (Real-Time Additions)

MPLM Return
- Item 731.1 and 731.2: Items added to Return Item 731 (Safety Tether CTB)
    - Suggest P&I to the MPLM Return Location Sort

**Due to the volume of changes today, you will have duplicate page numbers in both the Resupply and Return Transfer List.

<u>Questions</u>
John wrote in a crew note in OSTPV that the HEPA filters (item 806) would not fit in MPL2S4_K1. Our suggestion is to stow the HEPA filters in MPL2S4_G1. The filters cannot be stowed in F3_C1, as suggested by John, because of RSP weight. Inform MCC-H of the final location of these filters.

Happy packing!
-The Transfer Team-

STS-114 / LF1 Resupply Transfer List

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints/** **Comments
			Real-Time Additions									
				802	760XD BATTERY PACK [S/N 5129]	1	Aft FD		NOD1S4_B1 (in CTB S/N 1063)	2	1.76	**Do not transfer until FD10** **Remove from WinDecom PGSC s/n 5025
				803	760XD BATTERY PACK [S/N 5102]	1	Aft FD		NOD1S4_B1 (in CTB S/N 1063)	2	1.76	**Do not transfer until FD10** **Remove from RPOP2 PGSC s/n 5094
X				808	1.0 CTB - Laptop equipment bag 1	1 Sngl	LAB1O5_C1		FGB Deck	TBD	TBD	**Retrieve single CTB from ISS. Report CTB B/C to MCC-H
X				808.1	A31P Laptop (STS7-WLES) (P/N SEG33115360-302) [S/N 1024]	1	MA16G		FGB Deck (inside item 808)	TBD	8.49	**Do not transfer until FD11 after 'A31P Laptop Prep for Transfer' procedure is complete per timeline**
X				808.2	A31P DC PWR SPLY CABLE (10 FT) (P/N SDG33115374-301)	2	both prerouted R17 sts-7 L17 sts-8		FGB Deck (inside item 808)	TBD	TBD	**Do not transfer until FD11 after 'A31P Laptop Prep for Transfer' procedure is complete per timeline**
X				808.3	A31P Laptop STS8-DOUG (P/N SEG33115360-302) [S/N 1008]	1	MA16G		FGB Deck (inside item 808)	TBD	TBD	**Do not transfer until FD11 after 'A31P Laptop Prep for Transfer' procedure is complete per timeline**
X				808.4	DC POWER SUPPLY, 28VDC (P/N SEG33116428-301) [S/N 1020, 1019]	2	MA16G		FGB Deck (inside item 808)	TBD	TBD	**Do not transfer until FD11 after 'A31P Laptop Prep for Transfer' procedure is complete per timeline**
X				808.5	Ultrabay Camera (P/N SEG33115371-301)	1	MA16G		FGB Deck (inside item 808)	TBD	TBD	
X				808.6	1553 PC CARD W/ ADAPTER CABLE, 22 IN. (P/N SDG39129273-301)	2	MA16N		FGB Deck (inside item 808)	TBD	TBD	
X				808.7	WRITABLE CD-ROM, PCS (P/N SEZ39131210-307)	2	MA16N		FGB Deck (inside item 808)	TBD	TBD	
X				808.8	ASSY REMOVABLE HARD DISK 760XD-PCS (P/N SEZ39129266-301)	1	MA16N		FGB Deck (inside item 808)	TBD	TBD	

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STS-114 / LF1 Resupply Transfer List

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
X				809	1.0 CTB - Laptop equipment bag 2	1 Sngl	LAB1O5_C1		FGB Deck	TBD	TBD	**Retrieve single CTB from ISS. Report CTB B/C to MCC-H
X				809.1	STS2-PCMMU/Windecom (760XD) with attached and installed equipment (P/N SJD39129756-802) [S/N 5025]	1	MA16F		FGB Deck (inside item 809)	TBD	8.49	
X				809.4	STS10-SPARE (P/N SEG33115360-302) [S/N 1031]	1	MA9F		FGB Deck (inside item 809)	TBD	TBD	
X				809.5	Ethernet PCMCIA card w/ Adapter Cable (P/N SDZ39129269-301)	4	MF71E		FGB Deck (inside item 809)	TBD	TBD	
X				810	1.0 CTB - Laptop equipment bag 3	1 Sngl	LAB1O5_C1		FGB Deck	TBD	TBD	**Retrieve single CTB from ISS. Report CTB B/C to MCC-H
X				810.1	STS4-World Map (760XD) with attached and installed equipment (P/N SJD39129756-802) [S/N 5023]	1	MA9G		FGB Deck (inside item 810)	TBD	TBD	
X				810.2	PGSC DC PWR SPLY CBL, 10 ft P/N SEG39129263-301)	1	MA9G		FGB Deck (inside item 810)	TBD	TBD	
X				810.3	EXTERNAL FLOPPY DRIVE CASE (P/N SDZ39131205-301) [S/N 5008]	1	MA9G		FGB Deck (inside item 810)	TBD	TBD	**Contains Floppy Disk Drive (S/N 5008)
X				810.4	DC POWER SUPPLY (P/N SED39126010-305) [S/N 1018]	1	MA9G		FGB Deck (inside item 810)	TBD	TBD	
X				810.5	PGSC DC PWR SPLY CBL, 6 ft (P/N SED39122875-301)	3	MA9G sts-7 R17 sts-8 L17		FGB Deck (inside item 810)	TBD	TBD	

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STS-114 / LF1 Resupply Transfer List

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints/** **Comments
X				810.6	PROXIM 7520 ASSY/ ACCESS POINT (P/N SEZ39129738-307) [S/N 1027]	1	MA9G		FGB Deck (inside item 810)	TBD	TBD	
X				810.7	A31P DC PWR SPLY CABLE 10' (P/N SDG33115374-301)	2	sts-7 R17 sts-8 L17		FGB Deck (inside item 810)	TBD	TBD	
X				810.8	Ethernet Cable 25 ft (P/N SED39129317-301)	1	Connected to laptop TBD		FGB Deck (inside item 810)	TBD	TBD	
X				810.9	Black Ink Cartridge (S020108)	1	MA9J		FGB Deck (inside item 810)			
X				810.10	Color Ink Cartridge (S020089)	1	MA9J		FGB Deck (inside item 810)			

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STS-114 / LF1 Return Transfer List

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints/** **Comments
			Middeck Return									
			Prepacked Bags/Items									
X				403	Return Bag 403 [KURS Electronics Unit]	1	FGB Deck		Ext A/L Floor ~~MD Bag A (Floor Port 1)~~	N/A	149.91	
				435	Return Bag 435 [Yeast Gap Return Bag]	1 Hlf	LAB1O3_G2		MF71E	N/A	15.00	
				466	Return Item 466 [SPCU]	1 Foam Box	LAB1P4_E1		MD Bag D (Floor Stbd 2)	N/A	9.00	**Ensure Heat Exchanger SPCU Gamah plugs are oriented up toward the top of the 5 MLE bag.**
X	☑	8		472	Return Bag 472 [Fan Pump]	1 ~~Hlf~~	LAB1P4_E1		ML60E ~~MF28E/G~~	N/A	7.00	
				482	Return Bag 482 [PHOTO/TV RESUPPLY]	1 Sngl	See Swap List		Ext A/L Floor	BA-2	15.81	**Reference Swap List for instructions.
				494	Return Bag 494 [MDDK CHeCS Bag #1]	1 Hlf	NOD1O1		MD Bag B (Floor Port 2)	BA-2	28.43	**See following line item for packing GSC.
				494.1	Grab Sample Container [GSC]	1	LAB1D4_C1		MD Bag B (Floor Port 2) (inside item 494)	0	Part of above	**Stow after ops during MPLM ingress on FD4.** **Report S/N of GSC to MCC-H.**
				495	Return Bag 495 [CHECS RTH Water Samples]	1 Hlf	LAB1P4_F2 (Returning ZSR)		MF43E	1	11.74	**Remove items from CTB and stow inside food trays. **Stow empty CTB near LAB window.
X	☑	8		500	Return Bag 500 [MDDK KURS]	1 Hlf	FGB 217_1 (behind FGB panel)		MF28E/G ~~ML60E~~	N/A	18.40	
				502	Return Bag 502 [Middeck PGT]	1 Sngl	LAB1P4 (Rack Front) (Returning ZSR)		MF71O	BA-2	40.60	
X				502.1	Right Angle Drive [broken] [S/N 1009]	1	Used during EVA		MF71O (inside item 502)	TBD	2.4	**Verify item is stowed inside #502.
				503	Return Bag 503 [Ext A/L Bag]	1 Sngl	LAB1P4 (Rack Front) (Returning ZSR)		MF71K	N/A	53.61	
X				503.1	Mini Workstation Key Strap	1	Ext A/L (inside L shaped foam)		MF71K (inside item 503)			**Move item to Bag #503 for return.

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STS-114 / LF1 Return Transfer List

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints/** **Comments
X				506	Return Item 506 [LCVG in Mesh Bag]	1 mesh bag	LAB1P4 (Rack Front) (Returning ZSR)		Ext A/L Floor ~~MD Bag D~~ ~~(Floor Stbd 2)~~	0	29.60	**Use mesh bag to transfer four LCVGs to MDDK.** **Return mesh bag to ISS.
				509	Return Item 509 [Airlock Stowage Bag]	1	LAB1P4 (Rack Front) (Returning ZSR)		Vol H (INBD)	N/A	38.41	
				510	Return Item 510 [EMU Servicing Kit]	1	LAB1P4 (Rack Front) (Returning ZSR)		Vol H (INBD)	1	38.41	
				512	Return Item 512 [LAB1D1 MTL Return Flexhose]	1	LAB1P4		MD Bag B (Floor Port 2)	4	2.09	**Do not bend or stow items on top of flexhose when stowing.**
				514	Return Item 514 [Sample Purge Kit Assembly]	1	LAB1P3		MF43C	N/A	1.82	
				517	Return Bag 517 [MDDK Misc]	1 Sngl	NOD1O1 (Rack Front)		MF28O	BA-2	17.49	
			Non- Prepacked Bags/Items									
				700	760XD Laptop [S/N 6076]	1	NOD1S4_A1 (in CTB S/N 1297)		MA16N	BA-2	15.00	
	☑	4		701	ALSP Drug Subpack [S/N 1001]	1	See Swap List		MA16N	1	7.94	**Reference Swap List for instructions.
				702	DCS Power Supply/Charger [S/N 1002]	1	See Swap List		L10A1	N/A	0.50	**Reference Swap List for instructions on FD10.
				703	ISS Adapter Plate	1	MF71C		MD Bag D (Floor Stbd 2)	N/A	3.99	**Removed per item 30.
				704	PCG-STES #10	1	LAB1P2_G1		MF71C	1	60.69	Transfer per procedure {PCG-STES TRANSFER ISS TO MDDK} (SODF:ASSY OPS: Transfer: Powered)
				705	Port EMU [Phillips] [S/N 3005]	1	ISS A/L		MD Ceil Port	BA-2	328.39	Transfer on FD10 per POST EVA TRANSFER AND RECONFIG (FDF: EVA FS, Airlock Config)

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STS-114 / LF1 Return Transfer List

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints/** **Comments
				706	Item moved to MPLM							
				707	Starboard EMU [Krikalev] [S/N 3011]	1	ISS A/L		MD Ceil Stbd	BA-2	324.29	Transfer on FD10 per POST EVA TRANSFER AND RECONFIG (FDF: EVA FS, Airlock Config)
			Middeck Real-Time Additions									
X				800	PCG-STES Hardware	1 Hlf	ISS		Ext A/L Floor ~~MF43K~~	N/A	8.89	Transfer per procedure {PCG-STES TRANSFER ISS TO MDDK} (SODF:ASSY OPS: Transfer: Powered) Gather the following PCG-STES hardware (items 800.1-800.3) and stow in half CTB retrieved from ISS. **Report CTB B/C to MCC-H**
X				800.1	PCG-STES Muffler [96M12647-1]	1	LAB1P2_G1		Ext A/L Floor ~~MF43K~~ (inside item 800)	0	5.8	Transfer per procedure {PCG-STES TRANSFER ISS TO MDDK} (SODF:ASSY OPS: Transfer: Powered)
X				800.2	PCG-STES Power Adapter Cable [96M20602-1]	1	LAB1P2_G1		Ext A/L Floor ~~MF43K~~ (inside item 800)	0	0.35	Transfer per procedure {PCG-STES TRANSFER ISS TO MDDK} (SODF:ASSY OPS: Transfer: Powered)
X				800.3	PCG-STES RS422 Adapter Cable [96M20601-1]	1	LAB1P2_G1		Ext A/L Floor ~~MF43K~~ (inside item 800)	0	0.24	Transfer per procedure {PCG-STES TRANSFER ISS TO MDDK} (SODF:ASSY OPS: Transfer: Powered)
X				807	DCS 760 Camera Bag	1 Hlf	Aft ZSR		MF43K		27.00	~~**Report barcode or S/N of the half CTB used.~~
X	☑	8		482.3	DCS 760 Camera Assemblies [S/N 1040, 1013]	2	ISS deployed		MF43K ~~TBD~~ (inside item 807)	BA 2	Part of above	**Camera moved to this bag from item #482.
X				482.4	DCS Battery Charger [S/N 1005]	1		STS deployed	MF43K ~~TBD~~ (inside item 807)	N/A	Part of above	**Do not pack in CTB until FD10.** **Moved to this bag from item #482.

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STS-114 / LF1 Return Transfer List

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints/** **Comments
X	☑	8		482.1	Camcorder Assembly [PD100] [S/N 1001, 1010, 1011, 1012]	4	ISS deployed		MF43K ~~TBD~~ (inside item 807) ~~Ext A/L Floor (inside item 482)~~	BA 2	Part of above	**Moved to this bag from item #482.
X				811	1.0 CTB - PPA filters/IV pump battery assy/CEVIS Control Pnl/Acoustic Closeout Covers	1 Sngl	LAB1O5_C1		MD Bag A (Floor Port 1)	TBD	37.67	**Retrieve single CTB from ISS. Report CTB B/C to MCC-H.
X				811.1	Filter Assembly [FILTER ASSY, PUMP PACKAGE OUTLINE] (S/N 0001, 0014)	2	LAB1S5_C1		MD Bag A (Floor Port 1) (inside item 811)	TBD	Part of Above	
X				811.2	CEVIS DISPLAY/CONTROL PANEL (P/N SEG46117191-301)	1	NOD1D4_K1 (Inside Hlf CTB S/N 1125)		MD Bag A (Floor Port 1) (inside item 811)	TBD	Part of Above	**Located inside 0.5 CTB S/N 1125 "Broken Items"
X				811.3	Acoustic Closeout Cover Upper (P/N 60050NMA1125)	1	LAB1S4_D1		MD Bag A (Floor Port 1) (inside item 811)	TBD	Part of Above	
X				811.4	Acoustic Closeout Cover Lower (P/N 60050NMA1126)	1	LAB1S4_D1		MD Bag A (Floor Port 1) (inside item 811)	TBD	Part of Above	
X				812	1.0 CTB - Velocicalc/Defib Battery Assy/ku band pwr supply assy/DST/FMK	1 Sngl	LAB1O5_C1		MF71M	TBD	TBD	**Label CTB "Tox 2".** **Retrieve single CTB from ISS. Report CTB B/C to MCC-H
X				812.1	Velocicalc (S/N 9908376)	1	LAB1P5_A2		MF71M (inside item 812)	2	1.2	**Wrap velocicalc with absorbent material (used towel, t-shirt, etc.) and secure with gray tape. Place wrapped velocicalc in ziplock.** **Velocicalc launched on LF-1 also in this location. Verify S/N of return Velocicalc.

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STS-114 / LF1 Return Transfer List

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints/** **Comments
X				812.2	Defib Battery Assembly (P/N SEG46116000-301) (S/N 1007, 1008)	2	LAB1D4_A2 (Inside HASP S/N 1001)		MF71M (inside item 812)	2	2.42	**Tape terminals and connectors, then place each battery in an individual ziplock.**
X				812.3	KU BAND POWER SUPPLY ASSY (P/N SEG46116711-301) (P/N 1003)	1	NOD1D4_K1		MF71M (inside item 812)	TBD	6.56	**Marked as "broken"
X				812.4	Dual Sorbent Tubes (DST) (S/Ns 1020, 1022, 1023, 1024, 1048, 1049)	6	LAB1D4_C1		MF71M (inside item 812)	0	2.268	**Stowed with unused DSTs in CHeCS rack **Do not return Control Samples
X				812.5	Formaldahide Monitoring Kit (Used)	12	LAB1D4_C1		MF71M (inside item 812)	1	3.348	**Return all used FMKs **Do not return Control Samples
X				813	0.5 CTB - Foot restraint for return (S/N 1020)	1 Hlf	LAB1O4_D		Ext A/L Floor	TBD	15.82	
X				813.1	Short Duration Foot Restraints (P/N G11F5001-1) (B/C 024, 025, 027, 053)	4	LAB1O4_D (inside item 813)		Ext A/L Floor (inside item 813)	TBD	Part of above	**Verify items stowed in above CTB
X				814	Long Duration Foot Restraints (P/N G11F5008-1) (B/C 001, 003, 004)	3	LAB1O4_D		Ext A/L Floor	TBD	9.54	**Taped together in LAB1O4_D

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STS-114 / LF1 Return Transfer List

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X				815	1.0 CTB - Harddrive Assy-12 T-Bar Mount-1 T-Bar Assy-2 (S/N 1178)	1 Sngl	NOD1O4_F2		MA16J	TBD	25.778	**Verify CTB only contains below contents.
X				815.1	Hard Drive Assy (P/N 60050AMA3308) (04, 05, 06, 07, 08, 09, 10)	7	NOD1O4_F2 (inside item 815)		MA16J (inside item 815)	TBD	Part of above	
X				815.2	Tee Bar Assy (P/N 60050LMA1201)	2	NOD1O4_F2 (inside item 815)		MA16J (inside item 815)	TBD	Part of above	
X				815.3	T Bar Mount (P/N 60050LMA1204)	1	NOD1O4_F2 (inside item 815)		MA16J (inside item 815)	TBD	Part of above	

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STS-114 / LF1 Return Transfer List

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	☑	9		730	SAFER [S/N 1006]	1	ISS A/L (in SAFER Stowage Bag)		MPL2S3_G1	1	72.10	**Remove SAFER from Stowage Bag and then transfer. Stowage Bag remains in ISS A/L.** **Stow switchguard on Hand Controller. Stow Hand Controller deployed, inhibitor installed.** **Remove and trash old SAFER Checkout Results Cue Card.**
				731	Safety Tethers [8] [S/N 1001, 1002, 1003, 1004, 1005, 1014, 1010, 1012]	1 Hlf	Brought in from EVA		MPL2S4_D1*	N/A	35.70	**Transfer after EVA 3.**
X				731.1	Positive Pressure Relief Valve (PPRV) [P/N 683-16321-11]	1	NOD1S4_B2 (in CTB S/N 1195)		MPL2S4_D1* (inside item #731)		3.40	
X				731.2	Scopemeter "Hank" [S/N DM6810614]	1	NOD1O3 (in CTB S/N 1202)		MPL2S4_D1* (inside item #731)		7.06	
	☑	7		732	Silver Biocide Syringe Kit [S/N 1003]	1 Zplk	[MF43C]	Middeck	MPL2P2_A1	0	1.34	**Silver Biocide Syringe Kit used on Middeck. Stow after ops complete. Kit will be empty for return. **Reference item 28 for resupply item.
	☑	9		733	Sox #1 [S/N 1001]	1 Sngl	LAB1P4_Aft (Returning ZSR)		MPL2P3_K1	N/A	20.00	
				734	Zero G Stowage Rack [ZSR]	1	[LAB1P4]	MPLM empty bay	MPL2P3* (Attached on front of RSR)	N/A	69.51	**Do not mount ZSR for return until all prepack return items and CTBs have been removed from ZSR and all returning items in MPL2P3 rack have been stowed.** Mount ZSR on front of RSR per procedure: {1.105 LAB ZERO G STOWAGE RACK (ZSR) RETURN} (SODF: CSS: Crew Support Equipment) **Reference item 148 for ZSR/RSR Brackets.

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Middeck												
X				403	Return Bag 403 [KURS Electronics Unit]	1	FGB Deck		Ext A/L Floor ~~MD Bag A~~ ~~(Floor Port 1)~~	N/A	149.91	
				482	Return Bag 482 [PHOTO/TV RESUPPLY]	1 Sngl	See Swap List		Ext A/L Floor	BA-2	15.81	**Reference Swap List for instructions.
X				813	0.5 CTB - Foot restraint for return (S/N 1020)	1 Hlf	LAB1O4_D		Ext A/L Floor	TBD	15.82	
X				813.1	Short Duration Foot Restraints (P/N G11F5001-1) (B/C 024, 025, 027, 053)	4	LAB1O4_D (inside item 813)		Ext A/L Floor (inside item 813)	TBD	Part of above	**Verify items stowed in above CTB
X				814	Long Duration Foot Restraints (P/N G11F5008-1) (B/C 001, 003, 004)	3	LAB1O4_D		Ext A/L Floor	TBD	9.54	**Taped together in LAB1O4_D
X				506	Return Item 506 [LCVG in Mesh Bag]	1 mesh bag	LAB1P4 (Rack Front) (Returning ZSR)		Ext A/L Floor ~~MD Bag D~~ ~~(Floor Stbd 2)~~		29.60	**Use mesh bag to transfer four LCVGs to MDDK.** **Return mesh bag to ISS.
X				800	PCG-STES Hardware	1 Hlf	ISS		Ext A/L Floor ~~MF43K~~	N/A	8.89	Transfer per procedure {PCG-STES TRANSFER ISS TO MDDK} (SODF:ASSY OPS: Transfer: Powered) Gather the following PCG-STES hardware (items 800.1-800.3) and stow in half CTB retrieved from ISS. **Report CTB B/C to MCC-H**
X				800.1	PCG-STES Muffler [96M12647-1]	1	LAB1P2_G1		Ext A/L Floor ~~MF43K~~ (inside item 800)		5.8	Transfer per procedure {PCG-STES TRANSFER ISS TO MDDK} (SODF:ASSY OPS: Transfer: Powered)
X				800.2	PCG-STES Power Adapter Cable [96M20602-1]	1	LAB1P2_G1		Ext A/L Floor ~~MF43K~~ (inside item 800)		0.35	Transfer per procedure {PCG-STES TRANSFER ISS TO MDDK} (SODF:ASSY OPS: Transfer: Powered)
X				800.3	PCG-STES RS422 Adapter Cable [96M20601-1]	1	LAB1P2_G1		Ext A/L Floor ~~MF43K~~ (inside item 800)		0.24	Transfer per procedure {PCG-STES TRANSFER ISS TO MDDK} (SODF:ASSY OPS: Transfer: Powered)
				702	DCS Power Supply/Charger [S/N 1002]	1	See Swap List		L10A1	N/A	0.50	**Reference Swap List for instructions on FD10.
X				815	1.0 CTB - Harddrive Assy-12 T-Bar Mount-1 T-Bar Assy-2 (S/N 1178)	1 Sngl	NOD1O4_F2		MA16J	TBD	25.778	**Verify CTB only contains below contents.

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints/** **Comments
X				815.1	Hard Drive Assy (P/N 60050AMA3308) (04, 05, 06, 07, 08, 09, 10)	7	NOD1O4_F2 (inside item 815)		MA16J (inside item 815)	TBD	Part of above	
X				815.2	Tee Bar Assy (P/N 60050LMA1201)	2	NOD1O4_F2 (inside item 815)		MA16J (inside item 815)	TBD	Part of above	
X				815.3	T Bar Mount (P/N 60050LMA1204)	1	NOD1O4_F2 (inside item 815)		MA16J (inside item 815)	TBD	Part of above	
				700	760XD Laptop [S/N 6076]	1	NOD1S4_A1 (in CTB S/N 1297)		MA16N	BA-2	15.00	
	☑	4		701	ALSP Drug Subpack [S/N 1001]	1	See Swap List		MA16N	1	7.94	**Reference Swap List for instructions.
X				811	1.0 CTB - PPA filters/IV pump battery assy/CEVIS Control Pnl/Acoustic Closeout Covers	1 Sngl	LAB1O5_C1		MD Bag A (Floor Port 1)	TBD	37.67	**Retrieve single CTB from ISS. Report CTB B/C to MCC-H.
X				811.1	Filter Assembly [FILTER ASSY, PUMP PACKAGE OUTLINE] (S/N 0001, 0014)	2	LAB1S5_C1		MD Bag A (Floor Port 1) (inside item 811)	TBD	Part of Above	
X				811.2	CEVIS DISPLAY/CONTROL PANEL (P/N SEG46117191-301)	1	NOD1D4_K1 (Inside Hlf CTB S/N 1125)		MD Bag A (Floor Port 1) (inside item 811)	TBD	Part of Above	**Located inside 0.5 CTB S/N 1125 "Broken Items"
X				811.3	Acoustic Closeout Cover Upper (P/N 60050NMA1125)	1	LAB1S4_D1		MD Bag A (Floor Port 1) (inside item 811)	TBD	Part of Above	
X				811.4	Acoustic Closeout Cover Lower (P/N 60050NMA1126)	1	LAB1S4_D1		MD Bag A (Floor Port 1) (inside item 811)	TBD	Part of Above	
				494	Return Bag 494 [MDDK CHeCS Bag #1]	1 Hlf	NOD1O1		MD Bag B (Floor Port 2)	BA-2	28.43	**See following line item for packing GSC.
				494.1	Grab Sample Container [GSC]	1	LAB1D4_C1		MD Bag B (Floor Port 2) (inside item 494)		Part of above	**Stow after ops during MPLM ingress on FD4.** **Report S/N of GSC to MCC-H.**
				512	Return Item 512 [LAB1D1 MTL Return Flexhose]	1	LAB1P4		MD Bag B (Floor Port 2)	4	2.09	**Do not bend or stow items on top of flexhose when stowing.**
				466	Return Item 466 [SPCU]	1 Foam Box	LAB1P4_E1		MD Bag D (Floor Stbd 2)	N/A	9.00	**Ensure Heat Exchanger SPCU Gamah plugs are oriented up toward the top of the 5 MLE bag.**

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints/** **Comments
				703	ISS Adapter Plate	1	MF71C		MD Bag D (Floor Stbd 2)	N/A	3.99	**Removed per item 30.
				705	Port EMU [Phillips] [S/N 3005]	1	ISS A/L		MD Ceil Port	BA-2	328.39	Transfer on FD10 per POST EVA TRANSFER AND RECONFIG (FDF: EVA FS, Airlock Config)
				707	Starboard EMU [Krikalev] [S/N 3011]	1	ISS A/L		MD Ceil Stbd	BA-2	324.29	Transfer on FD10 per POST EVA TRANSFER AND RECONFIG (FDF: EVA FS, Airlock Config)
X	☑	8		500	Return Bag 500 [MDDK KURS]	1 Hlf	FGB 217_1 (behind FGB panel)		MF28E/G ~~ML60E~~	N/A	18.40	
				517	Return Bag 517 [MDDK Misc]	1 Sngl	NOD1O1 (Rack Front)		MF28O	BA-2	17.49	
				514	Return Item 514 [Sample Purge Kit Assembly]	1	LAB1P3		MF43C	N/A	1.82	
				495	Return Bag 495 [CHECS RTH Water Samples]	1 Hlf	LAB1P4_F2 (Returning ZSR)		MF43E	1	11.74	**Remove items from CTB and stow inside food trays. **Stow empty CTB near LAB window.
X				807	DCS 760 Camera Bag	1 Hlf	Aft ZSR		MF43K		27.00	~~**Report barcode or S/N of the half CTB used.~~
X	☑	8		482.3	DCS 760 Camera Assemblies [S/N 1040, 1013]	2	ISS deployed		MF43K ~~TBD~~ (inside item 807)	BA 2	Part of above	**Camera moved to this bag from item #482.
X				482.4	DCS Battery Charger [S/N 1005]	1		STS deployed	MF43K ~~TBD~~ (inside item 807)	N/A	Part of above	**Do not pack in CTB until FD10.** **Moved to this bag from item #482.
X	☑	8		482.1	Camcorder Assembly [PD100] [S/N 1001, 1010, 1011, 1012]	4	ISS deployed		MF43K ~~TBD~~ (inside item 807) ~~Ext A/L Floor~~ ~~(inside item 482)~~	BA 2	Part of above	**Moved to this bag from item #482.
				704	PCG-STES #10	1	LAB1P2_G1		MF71C	1	60.69	Transfer per procedure {PCG-STES TRANSFER ISS TO MDDK} (SODF:ASSY OPS: Transfer: Powered)
				435	Return Bag 435 [Yeast Gap Return Bag]	1 Hlf	LAB1O3_G2		MF71E	N/A	15.00	
				503	Return Bag 503 [Ext A/L Bag]	1 Sngl	LAB1P4 (Rack Front) (Returning ZSR)		MF71K	N/A	53.61	
X				503.1	Mini Workstation Key Strap	1	Ext A/L (inside L shaped foam)		MF71K (inside item 503)			**Move item to Bag #503 for return.

Chg Flag	☑	FD	Crew Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Tox Level	Wt (lbs)	PROCEDURES/**Constraints/** **Comments
X				812	1.0 CTB - Velocicalc/Defib Battery Assy/ku band pwr supply assy/DST/FMK	1 Sngl	LAB1O5_C1		MF71M	TBD	TBD	**Label CTB "Tox 2".** **Retrieve single CTB from ISS. Report CTB B/C to MCC-H
X				812.1	Velocicalc (S/N 9908376)	1	LAB1P5_A2		MF71M (inside item 812)	2	1.2	**Wrap velocicalc with absorbent material (used towel, t-shirt, etc.) and secure with gray tape. Place wrapped velocicalc in ziplock.** **Velocicalc launched on LF-1 also in this location. Verify S/N of return Velocicalc.
X				812.2	Defib Battery Assembly (P/N SEG46116000-301) (S/N 1007, 1008)	2	LAB1D4_A2 (Inside HASP S/N 1001)		MF71M (inside item 812)	2	2.42	**Tape terminals and connectors, then place each battery in an individual ziplock.**
X				812.3	KU BAND POWER SUPPLY ASSY (P/N SEG46116711-301) (P/N 1003)	1	NOD1D4_K1		MF71M (inside item 812)	TBD	6.56	**Marked as "broken"
X				812.4	Dual Sorbent Tubes (DST) (S/Ns 1020, 1022, 1023, 1024, 1048, 1049)	6	LAB1D4_C1		MF71M (inside item 812)		2.268	**Stowed with unused DSTs in CHeCS rack **Do not return Control Samples
X				812.5	Formaldahide Monitoring Kit (Used)	12	LAB1D4_C1		MF71M (inside item 812)	1	3.348	**Return all used FMKs **Do not return Control Samples
				502	Return Bag 502 [Middeck PGT]	1 Sngl	LAB1P4 (Rack Front) (Returning ZSR)		MF71O	BA-2	40.60	
X				502.1	Right Angle Drive [broken] [S/N 1009]	1	Used during EVA		MF71O (inside item 502)	TBD	2.4	**Verify item is stowed inside #502.
X	☑	8		472	Return Bag 472 [Fan Pump]	1 ~~Hlf~~	LAB1P4_E1		ML60E ~~MF28E/G~~	N/A	7.00	
				509	Return Item 509 [Airlock Stowage Bag]	1	LAB1P4 (Rack Front) (Returning ZSR)		Vol H (INBD)	N/A	38.41	
				510	Return Item 510 [EMU Servicing Kit]	1	LAB1P4 (Rack Front) (Returning ZSR)		Vol H (INBD)	1	38.41	

MSG 121A - FD10 WATER ACTIVITY SUMMARY

FD10 Water Activity Details:

For the H2O activities on CDR:

1. There are three CWC fills scheduled for today. Retrieve three empty CWCs located in the ISS NOD1P2 M-02 Bag from among those with the following S/Ns: 1007, 1012, 1046, 1047. The only additive for all three of today's fills is Silver biocide, and each fill is expected to take approximately 56 minutes. No samples are required today.

   Initiate the first CWC fill at 8/14:45 using CWC FILL in SHUTTLE/ISS H2O CONTAINER FILL (ORB OPS,ECLS), p. 5–26. When this first fill is complete, initiate the second CWC fill no earlier than 8/16:25 to avoid termination during the PAO Event scheduled at 8/17:00. Initiate the third CWC fill no earlier than 8/18:05 to avoid termination during the JAXA PAO Event scheduled at 8/18:40. Following each fill, squeeze the CWC and inspect the outer canvas cover and all fittings for cracks and leaks; report each bag's condition to MCC along with its S/N and Barcode.

   After the first two fills are complete, MS5 may transfer the bags to ISS. The stowage location(s) should be reported to MCC. After the third CWC fill is complete, the CDR should transfer the bag to ISS and report its storage location to MCC. Also, please report the stowage location of the CWC that was filled yesterday.

2. MET 8/16:15 - Perform CHANGEOUT of SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS) p. 5-36 using Shuttle Condensate CWC #6008, which was dumped on FD8 and stowed in either Middeck locker MF43E or MF43G. Temp stow Shuttle Condensate CWC #5050, which will be dumped later during the flight.

FLIGHT DAY 3 DOCKING
ORBITER with ISS
CO2 ABSORBER REPLACEMENT
(7 Crewmembers/Single Shift/FD1-16)

			STOWAGE LOCATION		CK CMPLT
FLIGHT DAY	POS A	POS B	PRE DOCK	POST UNDOCK	
Launch	STS-114 1	STS-114 2	Installed	MPLM	
PRE FD1	"	"			
POST FD2	STS-114 3	STS-114 4	LiOH Box	MPLM	
PRE FD2	STS-114 5	"	LiOH Box	MPLM	
POST FD3 (Docking)	STS-114 6	STS-114 7	LiOH Box	MPLM	
PRE FD3	“	STS-111 60	NOD1D4_D2	MPLM	
POST FD4 (MPLM)	STS-111 61	STS-111 62	NOD1D4_D2	MPLM	
PRE FD4	STS-113 29	STS-113 35	NOD1D4_D2	MPLM	
POST FD5 (EVA1)	STS-113 36	STS-113 37	NOD1D4_D2	MPLM	
PRE FD5	STS-111 63	STS-111 64	NOD1D4_D2	MPLM	
POST FD6	STS-111 66	"	NOD1D4_D2	MPLM	
PRE FD6	STS-113 23	STS-113 24	NOD1S4_F2	LiOH Box	
POST FD7 (EVA2)	STS-113 25	STS-113 26	NOD1S4_F2	LiOH Box	
PRE FD7	STS-113 27	STS-113 28	NOD1S4_F2	LiOH Box	
POST FD8	"	STS-113 30	NOD1P4	LiOH Box	
PRE FD8	STS-113 31	STS-113 32	NOD1P4	LiOH Box	
POST FD9 (EVA3)	STS-113 33	STS-113 34	NOD1P4	LiOH Box	
PRE FD9	STS-112 25	“	NOD1P4_B1	LiOH Box	2
POST FD10	“	“			
PRE FD10	“	STS-112 ___	NOD1P4_B1	LiOH Box	
POST FD11 (MPLM)	"	“			
PRE FD11	STS-112 ___	“	NOD1P4_B1	LiOH Box	
POST FD12 (Undock)	“	STS-112 ___	NOD1P4_B1	LiOH Box	
MID FD12	STS-112 ___	"	NOD1P4_B1	LiOH Box	
PRE FD12	“	STS-114 21	LiOH Box	LiOH Box	
POST FD13	STS-112 ___	STS-112 ___	NOD1P4_B1	LiOH Box	
PRE FD13	STS-114 22	“	LiOH Box	LiOH Box	
POST FD14 (EOM)	STS-114 23	STS-114 24	LiOH Box	LiOH Box	
PRE FD14	STS-114 25	STS-114 26	LiOH Box	LiOH Box	
POST FD15 (EOM+1)	STS-114 27	STS-114 28	LiOH Box	LiOH Box	
PRE FD15	“	STS-114 29	LiOH Box	LiOH Box	
POST FD16 (EOM+2)	STS-114 30	STS-114 31	LiOH Box	Installed	

Notes:
1. STS-111, 112, and 113 denotes any LiOH can from those three flights
2. Report LiOH can decal number for LiOH cans used at each LiOH changeout to MCC
3. Record LiOH can decal numbers in the space provided for the STS-111 ___, 112 ___, and 113 ___ LiOH cans
4. The STS-111, 112, and 113 LiOH cans will have black decals with white text with no Used checkbox
5. The STS-114 LiOH cans will have white decals with black text
6. See Transfer List for MPLM LiOH can final stowage locations
7. Reseal all LiOH cans w/ Gray Tape and stow
8. For STS-114 LiOH cans, place a √ in the box next to the word “Used” to indicate the LiOH can has been used.
9. Place Kapton tape on STS-111, STS-112, and STS-113 LiOH cans and mark “USED”
10. Location of canisters and LiOH Exchange plan on back

BACK OF FLIGHT DAY 3 DOCKING
ORBITER with ISS
CO2 ABSORBER REPLACEMENT

LIOH CANISTER STOWAGE LOCATIONS
(Predocking and Post Undocking)

ORB + MPLM LIOH STOWAGE LOCATIONS

	PRE DOCK	POST UNDOCK	NOTES
STS 114 1 - 7	LiOH Box	MPLM	Transfer on FD5
STS 114 8 - 14	LiOH Box	NOD1S4_D/E/F2	Transfer on FD3
STS-114 15 – 20	LiOH Box	ISS	Transfer on FD8
STS-114 21 - 31	LiOH Box	LiOH Box	No Transfer
STS 114 32 - 47	MPLM	FGB Floor	Transfer on FD5/FD6
STS 114 48	MPLM	NOD1P4_B2	Transfer on FD6
STS 114 49	MPLM	CM1PO_4_417_1	Transfer on FD6

ISS LIOH STOWAGE LOCATIONS

	PRE DOCK	POST UNDOCK	NOTES
S/N 334	CM1PO_4_417_1	MPLM	No Flight # on Decal, Transfer on FD6
S/N 336	NOD1P4_B2	MPLM	No Flight # on Decal, Transfer on FD6
STS-111 65	NOD1D4_D2	MPLM	LiOH can used on the ISS, Transfer on FD5
STS-111 59	NOD1D4_D2	MPLM	LiOH can used on the ISS, Transfer on FD5
STS-111 60 - 64, 66	NOD1D4_D2	MPLM, LiOH Box	4 return in MPLM, 2 in LiOH Box
STS-112 25 - 31	NOD1P4_B1	LiOH Box	
STS-113 23 - 28	NOD1S4_F2	LiOH Box	
STS-113 29	NOD1D4_D2	MPLM	
STS-113 30 - 31	LAB1P4_F1	LiOH Box	
STS-113 32 - 34	NOD1P4	LiOH Box	
STS-113 35 - 37	NOD1D4_D2	MPLM	

LiOH Exchange Plan

FD3:	A	1. LiOH Box: STS-114 cans 8-14 to NOD1S4_D/E/F2 2. NOD1D4_D2: 3 STS-111 cans plus 4 STS-113 cans to the LiOH Box
FD5:	B	1. LiOH Box: STS-114 cans 1-7 (used) to the MPLM 2. NOD1D4_D2: 2 ISS used STS 111 cans to the MPLM 3. NOD1D4_D2: 3 STS-111 cans to the LiOH Box 4. NOD1S4_F2: 4 STS-113 cans to the LiOH Box 5. MPLM: 16 STS 114 LiOH cans to FGB Floor between FD5 and FD6
FD6:	C	1. LiOH Box: 4 used STS-111 and 4 used STS-113 LiOH cans from the LiOH Box to the MPLM 2. NOD1S4_F2: 2 STS 113 LiOH cans to the LiOH box 3. NOD1P4: 3 STS-113 LiOH cans to the LiOH Box 4. LAB1P4_F1: 2 STS-113 LiOH cans to the LiOH Box 5. NOD1P4_B1: 1 STS-112 LiOH cans to the LiOH Box 6. MPLM: 16 STS 114 LiOH cans to FGB Floor (if not complete on FD5) 7. NOD1P4_B2 (Post Fire Cleanup Kit): 1 LiOH can (No Flight Decal) to the MPLM 8. CM1PO_4_417_1 (Post Fire Cleanup Kit): 1 LiOH can (No Flight Decal) to the MPLM 9. MPLM: 1 STS 114 LiOH can to NOD1P4_B2 (Post Fire Cleanup Kit), report Decal and S/N to MCC-H 10. MPLM: 1 STS 114 LiOH can to CM1PO_4_417_1 (Post Fire Cleanup Kit), report Decal and S/N to MCC-H
FD8:	D	1. LiOH Box: STS-114 cans 15 – 20 to ISS NOD1D4_D2 2. NOD1P4_B1: 6 STS-112 Cans to the LiOH Box

MSG 123A - PROPOSED PGSC NETWORK

Your input is requested for the PGSC Reconfiguration Proposal. As you know, we are planning on transferring two of your 760XDs, STS2 and STS4, to ISS before undocking. These are included in the FD10 transfer list. In an effort to leave as many working machines as possible on Station, we would like to know if you would be comfortable with transferring an additional third machine. To minimize config and cable changes, we are proposing to transfer the following three 760XDs to ISS:

STS2 (currently RPOP, was Windecom originally)

STS4 (WorldMap)

STS5 (currently RPOP2, was RPOP originally)

This would leave you with three 760XDs on board, two on the flight deck (STS6 - currently Windecom and STS3 Proshare) and one on the middeck (STS1, the OCA router). In this configuration, you will have to bring the Proshare machine up from the middeck to serve as an RPOP machine, as it is not recommended to have both RPOP and Windecom running on the same machine. If you leave the KFX on the flight deck, it must remain hard wired to the Router.

The WLES, DOUG and backup A31P will also be transferred. A procedure is in work to move the prime WLES hard drive to the LCS computer which can then be used for WLES or LCS.

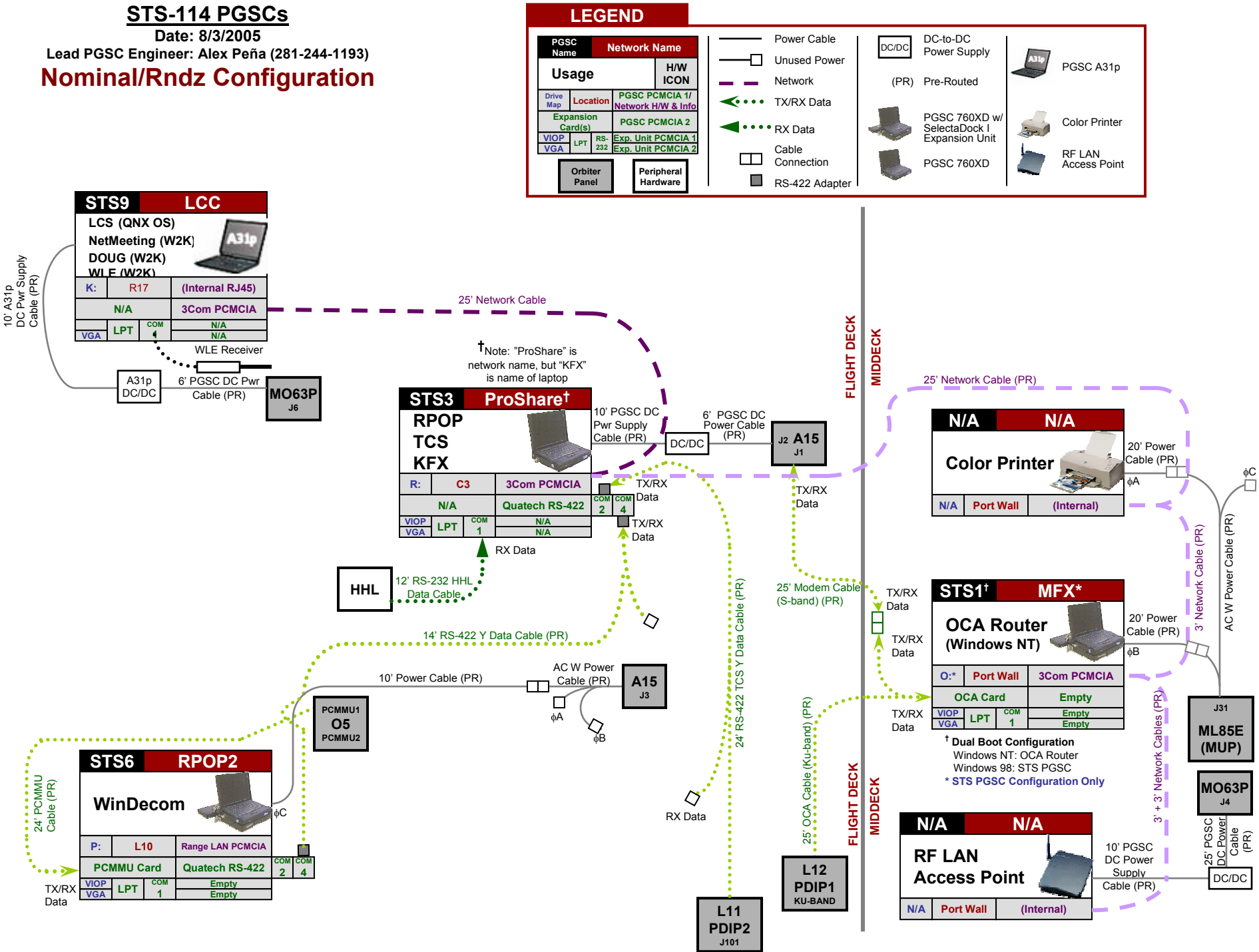
Would that be an acceptable configuration for undocking and free flight? A usage chart is on the following page.

STS-114 PGSCs

Date: 8/3/2005

Lead PGSC Engineer: Alex Peña (281-244-1193)

Nominal/Rndz Configuration



The FD 9 MMT was dedicated to assessing the damaged thermal blanket below window #1.

Preliminary Analysis has shown that the region of critical vulnerability of thermal blanket impact to the L OMS Pod and Vertical Tail/Rudder Speedbrake is between Mach 1 - 5. At these Mach #'s, the probabilities of actual impact is low. When you look at the probability of thermal blanket/orbiter impact, combined with the probability of thermal blanket separation, combined with the conservative assumption that the entire thermal blanket shell remains intact,----- the combined probability of catastrophic damage appears to be very low.

Teams are working hard to better understand the situation and are running tests in the Ames wind tunnel this evening. The wind tunnel tests could provide the data to show that the failure mechanism of the blanket is such that it is definitely not a concern. The test profiles are attached fyi.

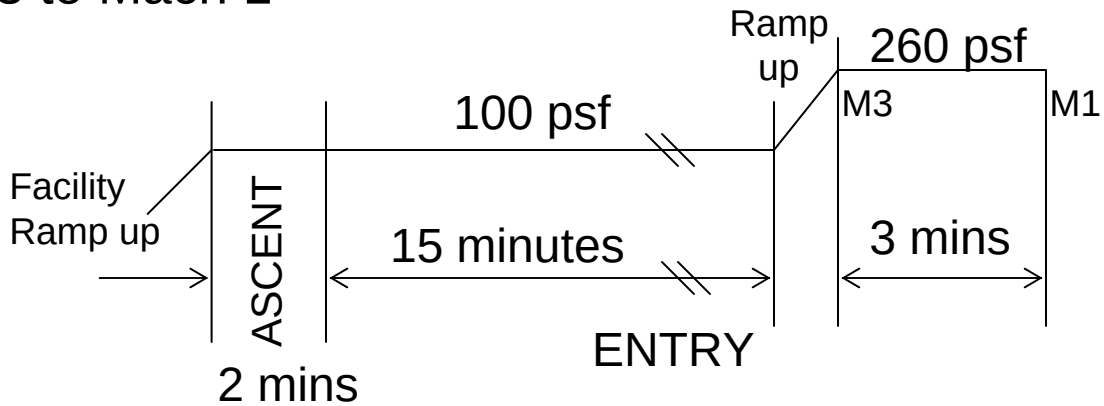
Teams are also looking at how the 4th EVA would be conducted and the impacts it would have on your timeline for the rest of the flight. Several options have been evaluated, and IF a 4th EVA was conducted, it would not be before FD 12. This would also result in another on-orbit extension day and use up the weather wave-off day.

Although the thermal blanket hazard is being worked diligently, it appears that the risk from it is low enough that a 4th EVA is unlikely. We will pass along more words tomorrow after the MMT which begins at 0900 CDT.

Keep up the great work, it has been fun watching y'all do your magic!

Test Article One

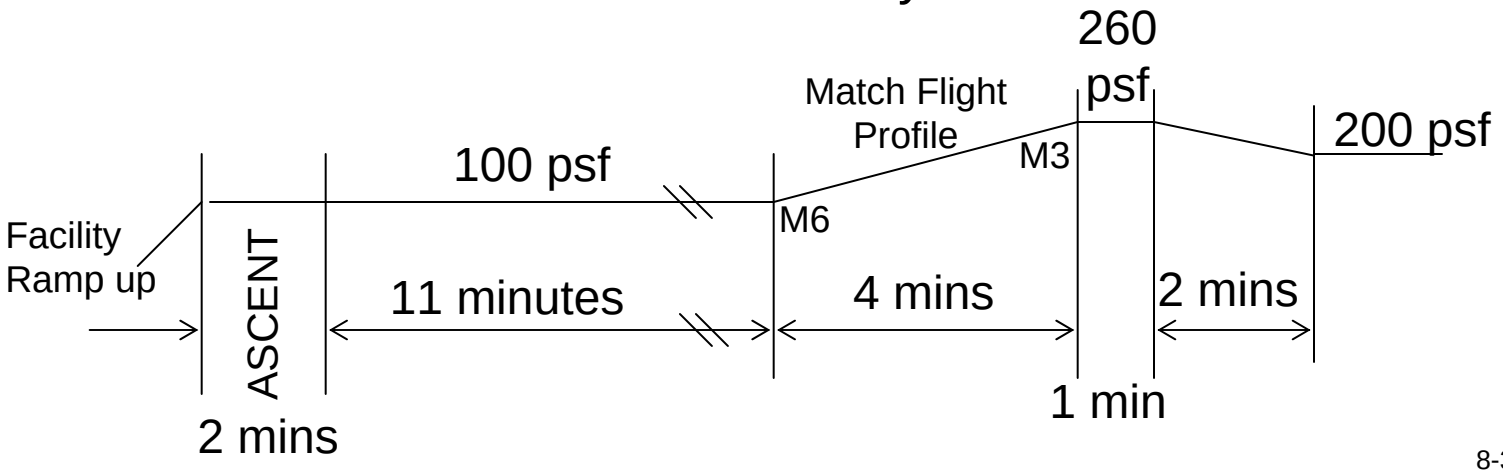
1. Confidence test: Simulate Ascent conditioning, Entry > 100 psf, and Mach 3 to Mach 1



2. Repeat Entry portion <u>only</u> to cover variability between TA & flight h/w

Test Article Two

3. Characterization Test: More accurate Entry Test



- Wind Tunnel Test Purpose:
  - Provide confidence of blanket viability or separation
    - If intact – GOOD FOR ENTRY
    - If separation, provides data for critical separation characteristics
- Logic Matrix:

TA1	Test 1 (Confidence Test)	Intact	Separation	Intact	Intact
TA1	Test 2 (Variability Test)	Intact	n/a	Separation	Separation
TA2	Test 1 (Character-ization Test)	Intact	Separation	Intact	Separation
PRELIMINARY ASSESSMENT:		GOOD FOR ENTRY (HIGHEST CONFIDENCE)	EVALUATE SEPARATION CHARACTERISTICS	GOOD FOR ENTRY W/ EVALUATION	EVALUATE FOR ENTRY