STS-114/LF1

FD 13 Execute Package

MSG	Page(s)	Title
153D	1 - 23	FD13 Flight Plan Revision **(pdf)**
154A	24 - 25	FD13 Mission Summary **(pdf)**
151	26 - 28	Thermal Window Assembly Inspection **(pdf)**
155	---	FD13 US PAO Event Summary **(pdf)**
156	---	Sunday Funnies **(pdf - Electronic Only)**

Approved by FAO: *L. Delapp*

Last Updated: Aug 6 2005 10:26PM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX

MSG NO.	TITLE
151	Thermal Window Assembly Inspection
153	FD13 Flight Plan Revision
154	FD13 Mission Summary
155	FD13 US PAO Event Summary
156	Sunday Funnies (Electronic Only)

1. Post Sleep Cryo Config

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

2. PGSC Notes:

   Prior to stowing the Ku antenna, we will downlink your personal mail folders so that you can have access to them when you return to Houston. Please move all messages that you want to keep from your "Inbox", "Sent Items" and "Work Related" folders to your personal folder in Outlook. During the Ku pass prior to Ku antenna stow at MET 11/22:00, we'll downlink your personal folders and your mail OST files and perform one last mail synch on the ground (to send any outgoing messages). The OSTs will not be uplinked after this.

   In addition, we had the following PGSC related questions:

   Question 1: During the PFC troubleshooting yesterday, did you only reboot the OCA router, or did you additionally reboot the Proshare machine? Please let us know all actions you performed, or if nothing was done onboard, so that we may troubleshoot the problem further.

   Question 2: Do you plan to setup MFX (S-band modem configuration) at the end of FD13 after Ku antenna stow ?

3. In order to be in the proper config for FCS C/O, please close the following circuit breakers prior to performing the FCS Checkout procedure.

   O14:C cb MNA TACAN 1 – cl
   O15:C cb MNB TACAN 2 – cl
   O16:C cb MNC TACAN 3 – cl
   O14:E cb MNA RDR ALTM 1 – cl
   O15:E cb MNB RDR ALTM 2 – cl
   O14:E cb MNA MLS 1 – cl
   O15:E cb MNB MLS 2 – cl
   O16:E cb MNC MLS 3 – cl

4. To reconfigure the C&W from the O2 Repress, perform the following at your convenience. Check with MCC before enabling.

R13U	PARAMETER	H/W CHANNEL	ACTION
	PPO2 A	34	ENA
	PPO2 B	44	ENA

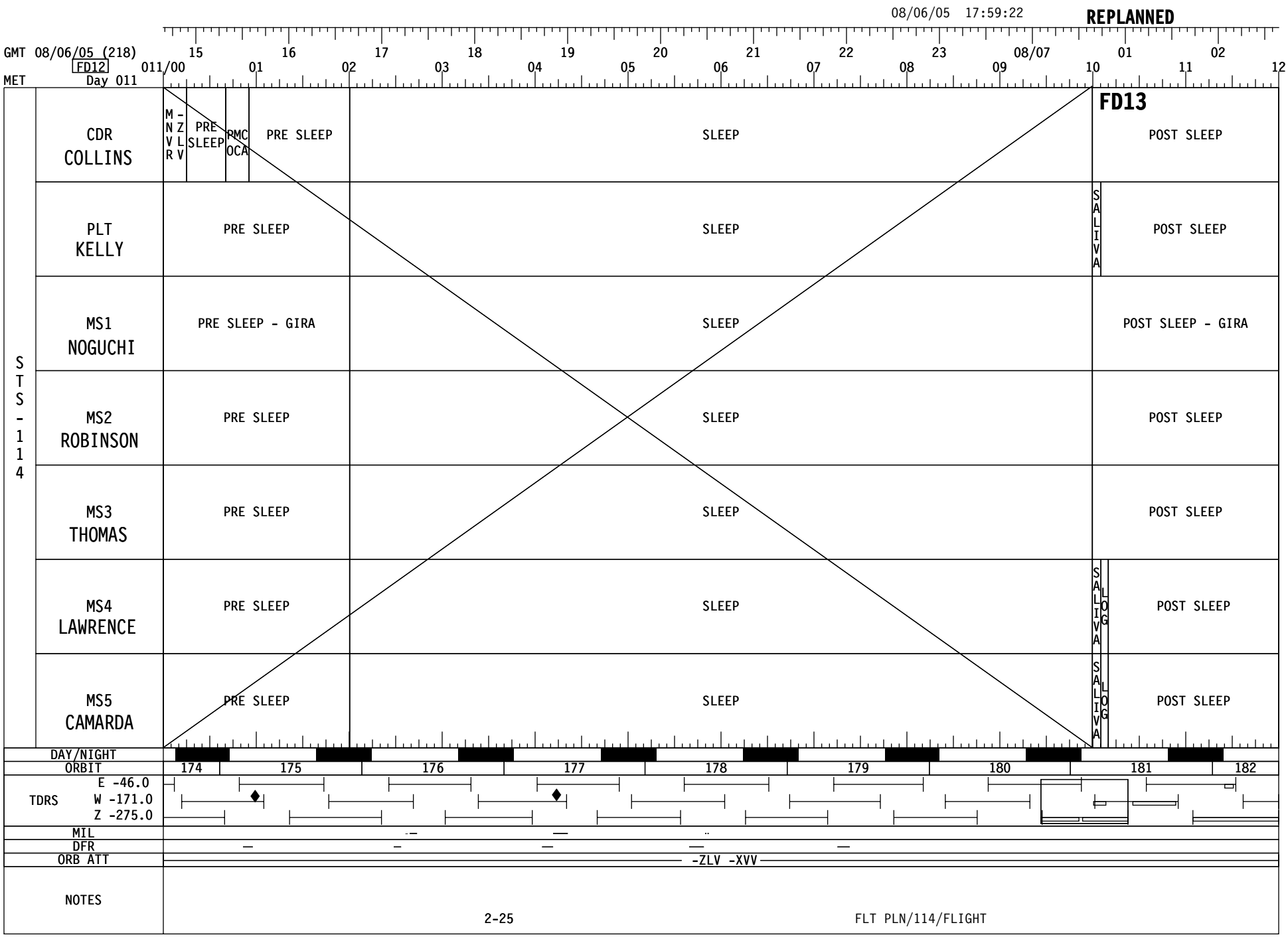
5. R5R has been exhibiting low chamber pressure. R5R is not required for normal vernier attitude holds and maneuvers. After the RCS hotfire is complete, please perform the following actions to deselect R5R.

   NOTE: Following the deselection of R5R the fault message "DAP RECONFIG" will annunciate and the DAP will mode to free drift.

   GNC 23 RCS
   RCS R - ITEM 3 EXEC (*)
   JET DES R5R - ITEM 37 EXEC (*)
   DAP: A/AUTO/VERN

6. WLES had a very successful operational mission, exceeding many expectations, including those related to battery lifetime. Data was gathered during ascent and analyzed, helping to clear the TPS for entry. Since the temperatures and batteries in the port wing supported further operations, those units were used to conduct system characterization tests and on-orbit data takes. Those data takes were complete at MET 10/19:00, with the batteries on the port wing largely depleted. With the starboard wing warming up to operating temperatures, those units have been programmed to collect acceleration and temperature data during the deorbit burn and entry. In case you were wondering, during the mission the WLES and ACO teams processed 140 requests for data and unit status, which involved uplinking 887 commands and downlinking 1234 files. On behalf of the WLES team, we'd like to thank you for helping make the maiden voyage of the system such a success!

7. REPLACE PAGES 2-25 THROUGH 2-28 AND 3-138 THROUGH 3-154.


08/06/05 17:59:22
REPLANNED
GMT 08/06/05 (218)
FD12
MET Day 011
15 16 17 18 19 20 21 22 23 08/07 01 02
011/00 01 02 03 04 05 06 07 08 09 10 11 12
FD13
STS-114
CDR COLLINS
MNVR
-ZLV
PRE SLEEP
PMC OCA
PRE SLEEP
SLEEP
POST SLEEP
PLT KELLY
PRE SLEEP
SLEEP
SALIVA
POST SLEEP
MS1 NOGUCHI
PRE SLEEP - GIRA
SLEEP
POST SLEEP - GIRA
MS2 ROBINSON
PRE SLEEP
SLEEP
POST SLEEP
MS3 THOMAS
PRE SLEEP
SLEEP
POST SLEEP
MS4 LAWRENCE
PRE SLEEP
SLEEP
SALIVA
LOG
POST SLEEP
MS5 CAMARDA
PRE SLEEP
SLEEP
SALIVA
LOG
POST SLEEP
DAY/NIGHT
ORBIT
174 175 176 177 178 179 180 181 182
TDRS
E -46.0
W -171.0
Z -275.0
MIL
DFR
ORB ATT
-ZLV -XVV
NOTES
2-25
FLT PLN/114/FLIGHT

08/06/05 17:59:22 **REPLANNED**

GMT 08/07/05 (219) FD13 — MET Day 011

03 04 05 06 07 08 09 10 11 12 13 14 — 12 13 14 15 16 17 18 19 20 21 22 23 012/00

STS-114

CDR COLLINS	POST SLEEP	FCS CB	FCS C/O	RCS H/F	CABIN STOW	PILOT OPS	MPLM^	CABIN STOW	PAO EVENT	MEAL	L-1 COMM CHK	D/O BRIEF	MNVR +ZLV	WSSH COMM CK	MNVR -ZLV	EXERCISE	L-1 COMM CHK	CABIN STOW	PRE SLEEP					
PLT KELLY	W/B HTR	POST SLEEP	FCS C/O	RCS H/F	HTR	CABIN STOW	PILOT OPS	THERM WINDOW INSPECT	PAO EVENT	MEAL	CABIN STOW	D/O BRIEF	CABIN	RCS*	FES-I	EXERCISE	CABIN STOW	FES-T	APCU1*	CABIN STOW	APCU1*	PRE SLEEP		
MS1 NOGUCHI	♣	FILTER CLEANING	CABIN STOW	CREW*	CABIN STOW	EXERCISE	THERM WINDOW INSPECT	PAO EVENT	MEAL	CABIN STOW	D/O BRIEF	EVA H/W STOW	POST EVA ENT PREP	ENTRY	VIDEO	S/U	ERGO STOW	KU STOW	PRE SLEEP - GIRA					
MS2 ROBINSON	POST SLEEP	FCS C/O	RCS H/F	PILOT SETUP	PILOT OPS	EXERCISE	CABIN STOW	PAO EVENT	MEAL	CABIN STOW	D/O BRIEF	EVA H/W STOW	POST EVA ENT PREP	CABIN STOW	OCA S-BD S/U	PRE SLEEP								
MS3 THOMAS	POST SLEEP	CABIN STOW	EXERCISE	PRLACL	CABIN STOW	PAO EVENT	MEAL	CABIN STOW	D/O BRIEF	COMM*	CABIN STOW	OIU^	ERGO STOW	KU STOW	OIU^	PRE SLEEP								
MS4 LAWRENCE	POST SLEEP	CABIN STOW	EXERCISE	CABIN STOW	PAO S/U	PAO EVENT	MEAL	CABIN STOW	D/O BRIEF	CABIN STOW	SSV	DEACT	PRE SLEEP											
MS5 CAMARDA	POST SLEEP	MDK	EXERCISE	CABIN STOW	PRLACL	CABIN STOW	PAO EVENT	MEAL	CABIN STOW	D/O BRIEF	CABIN STOW	WLES STW	MDK	PRE SLEEP										

DAY/NIGHT

ORBIT: 182 183 184 185 186 187 188 189 190

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

MIL

DFR

ORB ATT: -ZLV -XVV; -ZLV -XVV; +ZLV -XVV; -ZLV +YVV

NOTES:
♣POST SLEEP - GIRA
*CHOICE D/L
^HTR ON
*REG RCNFG
*COMM STRING 2 C/O
*ACT
^ACT
*DEACT
^DEACT
MPLM PRESS CK

08/06/05 17:59:22 **REPLANNED**

GMT 08/07/05 (219) FD13 — 15 16 17 18 19 20 21 22 23 08/08 01 02

MET 012/00 Day 012 — 01 02 03 04 05 06 07 08 09 10 11 12

FD14

STS-114																	
CDR COLLINS	PRE SLEEP	PMC A/G	MPLM^	PRE SLEEP	SLEEP								POST SLEEP	MADS	POST SLEEP	MPLM^	POST SLEEP	PMC A/G
PLT KELLY	PRE SLEEP	ENTRY*	SLEEP									SALIVA	POST SLEEP					
MS1 NOGUCHI	PRE SLEEP - GIRA	SLEEP											POST SLEEP - GIRA					
MS2 ROBINSON	PRE SLEEP	SLEEP											POST SLEEP					
MS3 THOMAS	PRE SLEEP	SLEEP											POST SLEEP					
MS4 LAWRENCE	PRE SLEEP	SLEEP										SALIVA	LOG	POST SLEEP				
MS5 CAMARDA	PRE SLEEP	SLEEP										SALIVA	LOG	POST SLEEP				

DAY/NIGHT

ORBIT: 190 191 192 193 194 195 196 197 198

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

MIL

DFR

ORB ATT: -ZLV +YVV

NOTES: ^HTR OFF *CONFIG ^HTR ON

08/06/05 17:59:22 **REPLANNED**

GMT 08/08/05 (220) FD14
MET Day 012

03 04 05 06 07 08 09 10 11 12 13 14
12 13 14 15 16 17 18 19 20 21 22 23 013/00

STS-114							
CDR COLLINS	GRPB PWRUP	IMU ALIGN /VERIF	MNVR -XSI	DEORBIT PREP	D/O BURN	KSC LNDG*	
PLT KELLY	GRPB PWRUP	POST SLEEP	MADS	DEORBIT PREP			
MS1 NOGUCHI	POST SLEEP - GIRA	GIRA STOW		DEORBIT PREP			
MS2 ROBINSON	POST SLEEP	PGSC STOW PART II	CLR PRT STW	DEORBIT PREP			
MS3 THOMAS	POST SLEEP	FMKSTW	OCAC STOW	DEORBIT PREP			
MS4 LAWRENCE	POST SLEEP	WATCH	TEPC OFF	DEORBIT PREP			
MS5 CAMARDA	POST SLEEP	WATCH	MDDK AIRSAMP	DEORBIT PREP			

DAY/NIGHT

ORBIT 198 199 200 201 202 203 204 205

TDRS E -46.0 W -171.0 Z -275.0

MIL

DFR

ORB ATT IMU -XSI COMM

NOTES

D/O TIG 12/17:01
*KSC LNDG 12/18:07

STS-114 LF1 (FD13)

REPLANNED

GMT Date 08/06 (218) | TDRS E W Z | ORB | MET Day 011 | STS ATI | CDR COLLINS | PLT KELLY | MS1 NOGUCHI | MS2 ROBINSON | MCC

08:00 – 09:00 – 10:00 – 11:00 – 12:00

23:00 – 00:00 – 01:00 – 02:00

179 – 180 – 181 – 182

FD13

- ZLV - XVV

SLEEP

SLEEP

SLEEP

SLEEP

SALIVA COLLECT (ORB OPS, DSO)

FD13 EZ ACTIVITIES
HARD REBOOT PGSCs (not WLES)
OCAC FILTER INSPECT
TEPC (STATUS CK)
(ORB OPS, CREW SYS)

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)

STS-114 LF1 (FD 13)

REPLANNED

GMT Date 08/06 (218) | TDRS E W Z | ORB 179 180 181 182 | MET Day 011 | STS ATI

MS3 THOMAS | MS4 LAWRENCE | MS5 CAMARDA | MCC

08:00

09:00 — SLEEP — SLEEP — SLEEP

10:00 — -ZLV- -XVV

SALIVA COLLECT (ORB OPS, DSO) — SALIVA COLLECT (ORB OPS, DSO)

FLIGHT SLEEP LOG (ORB OPS, DSO) — FLIGHT SLEEP LOG (ORB OPS, DSO)

11:00 — POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) — POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) — POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

12:00

23:00 — 00:00 — 01:00 — 02:00

FD13

STS-114 LF1 (FD13)

REPLANNED

GMT Date 08/07 (219) | TDRS E W Z | ORB | MET Day 011 | STS ATI | CDR COLLINS | PLT KELLY | MS1 NOGUCHI | MS2 ROBINSON | MCC

03:00 — 04:00 — 05:00 — 06:00

182 — 183 — 184

12:00 — 13:00 — 14:00 — 15:00 — 16:00

-ZLV -XVV

CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
	W/B STEAM VENT HTR ACT R2 √BLR CNTLR/HTR (three)-B PWR (three) -ON	POST SLEEP ACTIVITY (ORB OPS, CREW SYS) GALLEY MORNING CONFIG (ORB OPS, ECLS)		
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	FILTER CLEANING (IFM, SCHED MAINT) Inspect filters and clean as necessary	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
FCS CIRCUIT BREAKERS Ref. MSG 153 Item 3				
FCS CHECKOUT (ORB OPS, GNC)	FCS CHECKOUT (ORB OPS, GNC)		FCS CHECKOUT (ORB OPS, GNC)	TFL 161
		CABIN CONFIG/STOW		
RCS HOT FIRE TEST (ORB OPS, RCS)	RCS HOT FIRE TEST (ORB OPS, RCS)		RCS HOT FIRE TEST (ORB OPS, RCS)	
	HTR RCNFG-CNFG B (ORB OPS, EPS)	CREW CHOICE VIDEO KU AVAIL TDRE 14:26-14:42	PILOT W/ RHC SETUP DIAGRAM (ORB OPS, PGSC)	
CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW		
PILOT WITH RHC (ORB OPS, PGSC)	PILOT WITH RHC (ORB OPS, PGSC)		PILOT WITH RHC (ORB OPS, PGSC)	TFL 184
		EXERCISE		
SSP1 MPLM CH 1,2 HTR PWR -ON (tb-gray)	THERMAL WINDOW ASSEMBLY INSPECT Ref. MSG 151	THERMAL WINDOW ASSEMBLY INSPECT Ref. MSG 151	EXERCISE	

STS-114 LF1 (FD 13)

REPLANNED

GMT Date 08/07 (219) | TDRS E W Z | ORB | MET Day 011 | STS ATI

MS3 THOMAS | MS4 LAWRENCE | MS5 CAMARDA | MCC

12:00

03:00

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

-ZLV

13:00

-XVV

MIDDECK STATUS CHECKS (ASSY OPS, CUE CARD)

04:00

CABIN CONFIG/STOW

EXERCISE

14:00

CABIN CONFIG/STOW

05:00

EXERCISE

CABIN CONFIG/STOW

15:00

-ZLV

PRLA CLOSE (ORB OPS, PRLA)

PRLA CLOSE (ORB OPS, PRLA)

06:00

-XVV

CABIN CONFIG/STOW

EXERCISE

CABIN CONFIG/STOW

16:00

182

183

184

STS-114 LF1 (FD13)

REPLANNED

GMT Date 08/07 (219) | TDRS E W Z | ORB | MET Day 011 | STS ATI

MET	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
16:00		THERMAL WINDOW ASSEMBLY INSPECT Ref. MSG 151	THERMAL WINDOW ASSEMBLY INSPECT Ref. MSG 151		
07:00	CABIN CONFIG/STOW			EXERCISE	
17:00				CABIN CONFIG/STOW	
08:00	PUBLIC AFFAIRS EVENT KU AVAIL TDRS 17:27-17:55 REF MSG 155	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT	
18:00					
09:00	MEAL	MEAL	MEAL	MEAL	
19:00	LANDING-1 COMM C/O (ORB OPS, COMM/INST) MIL 19:01-19:06	CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW	
10:00	DEORBIT BRIEF	DEORBIT BRIEF	DEORBIT BRIEF	DEORBIT BRIEF	
20:00		CABIN TEMP CNTL RECONFIG 2(1)(ORB OPS, ECLS)	EVA HARDWARE STOW	EVA HARDWARE STOW	

ORB: 185, 186, 187

STS ATI: -ZLV -XVV

STS-114 LF1 (FD 13)

REPLANNED

GMT Date 08/07 (219) | TDRS E W Z | ORB 185 186 187 | MET Day 011 | STS ATI -ZLV -XVV

MET	MS3 THOMAS	MS4 LAWRENCE	MS5 CAMARDA	MCC
16:00		EXERCISE		
07:00	CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW	
17:00		ANALOG PAO CC (PHOTO/TV, SONY PD100)		
08:00	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT	
18:00				
09:00	MEAL	MEAL	MEAL	
19:00	CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW	
10:00	DEORBIT BRIEF	DEORBIT BRIEF	DEORBIT BRIEF	
20:00	COMM STRING 2 C/O (PART B) (ORB OPS, COMM/INST)	CABIN CONFIG/STOW	CABIN CONFIG/STOW	

STS-114 LF1 (FD13)

REPLANNED

GMT Date 08/07 (219) | TDRS E W Z | ORB | MET Day 011 | STS ATT

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

20:00

+ZLV -XVV

MNVR (TRK) +ZLV -XVV
TG=2 BV=5 P=270 Y=0 OM=180
A1/AUTO/VERN Init TRK

LANDING-1 COMM C/O
(ORB OPS, COMM/INST)
WSSH 20:34-20:38

MNVR (TRK) -ZLV +YVV
TG=2 BV=3 OM=270
A1/AUTO/VERN Init TRK

LANDING-1 COMM C/O
(ORB OPS, COMM/INST)
DFR 22:07-22:12

-ZLV +YVV

CABIN CONFIG/STOW

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

RCS REG RCNFG (ORB OPS, RCS)
SPLY H2O DUMP W/FES (ORB OPS, ECLS)
Step 1 using FES Pri A

EXERCISE

CABIN CONFIG/STOW

SPLY H2O DUMP W/FES (ORB OPS, ECLS)
Step 2. FES Pri A req'd

√MCC:APCU 1 ACT (ASSY OPS, APCU)

CABIN CONFIG/STOW

√MCC:APCU 1 DEACT (ASSY OPS, APCU)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA HARDWARE STOW

POST EVA ENT PREP
(EVA, POST EVA ENT PREP)

ENTRY VIDEO SETUP
(PHOTO/TV, MINI-CAM)

CYCLE ERGOMETER OPS
(ORB OPS, CREW SYS)
RECONFIG/STOW

KU-BD ANT STOW
(ORB OPS, COMM/INST)

PRE SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA HARDWARE STOW

POST EVA ENT PREP
(EVA, POST EVA ENT PREP)

CABIN CONFIG/STOW

OCA S-BAND MODEM (MFX) ACT
(ORB OPS, PGSC)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Outlook Personal Folder Downlink

TFL 161

11:00 12:00 13:00 14:00

187 188 189 190

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

STS-114 LF1 (FD 13)

REPLANNED

GMT Date 08/07 (219) | TDRS E W Z | ORB 187 188 189 190 | MET Day 011 | STS ATT +ZLV -XVV -ZLV +YVV

MS3 THOMAS | MS4 LAWRENCE | MS5 CAMARDA | MCC

20:00
21:00
22:00
23:00
00:00
11:00
12:00
13:00
14:00

CABIN CONFIG/STOW

CABIN CONFIG/STOW

CABIN CONFIG/STOW

OIU ACTIVATION (ORB OPS, OIU)
In Step 3, OIU 1
CYCLE ERGOMETER OPS
(ORB OPS, CREW SYS)
RECONFIG/STOW

KU-BD ANT STOW
(ORB OPS, COMM/INST)

SSV DEACTIVATION
(PHOTO/TV, SSV)

DEACTIVATION AND TEARDOWN
(ORB OPS, WLE SENSORS)

1.101 MPLM ENVIRONMENT CHECK
(MPLM, NOMINAL)
Steps 1 & 4
Note: Pressure Check (NO fan)

Outlook Personal Folder Downlink

√MCC: OIU DEACTIVATION (ORB OPS, OIU)

MIDDECK STATUS CHECKS
(ASSY OPS, CUE CARD)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-114 LF1 (FD13)

REPLANNED

GMT Date 08/07 (219) | TDRS E W Z | ORB 190 191 192 | MET Day 012 | STS ATI -ZLV +YVV

00:00	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
01:00	06 √UHF MODE - OFF A/G PRIVATE MEDICAL CONFERENCE SSP1 MPLM CH 1,2 HTR PWR -OFF(tb-bp)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
02:00		ENTRY COOLING CONFIG A			
03:00	SLEEP	SLEEP	SLEEP	SLEEP	
04:00					

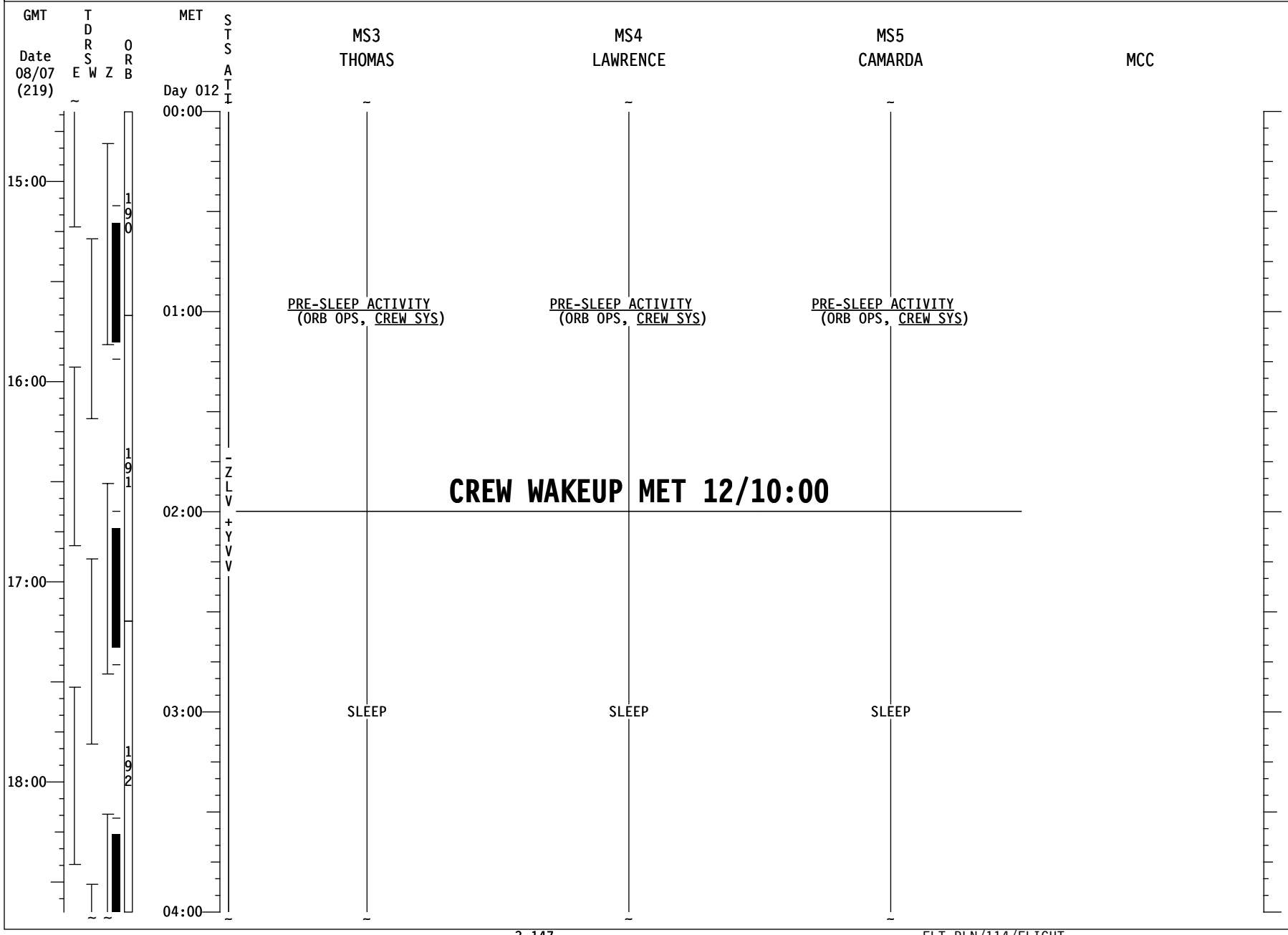
A PRESLEEP CABIN TEMP CONFIG
R12 √VPU PWR-OFF (LED-off)
Minimize use of P/TV equipment
Dim cabin lighting to 25%
L1 CAB TEMP sel
adj rotary to 10 o'clock posn

FD13 OVERNIGHT CONFIG
- ☐ OCA ROUTER - ON (WIN 98)
- ☐ MFX LAUNCHED

CREW WAKEUP MET 12/10:00

STS-114 LF1 (FD 13)

REPLANNED



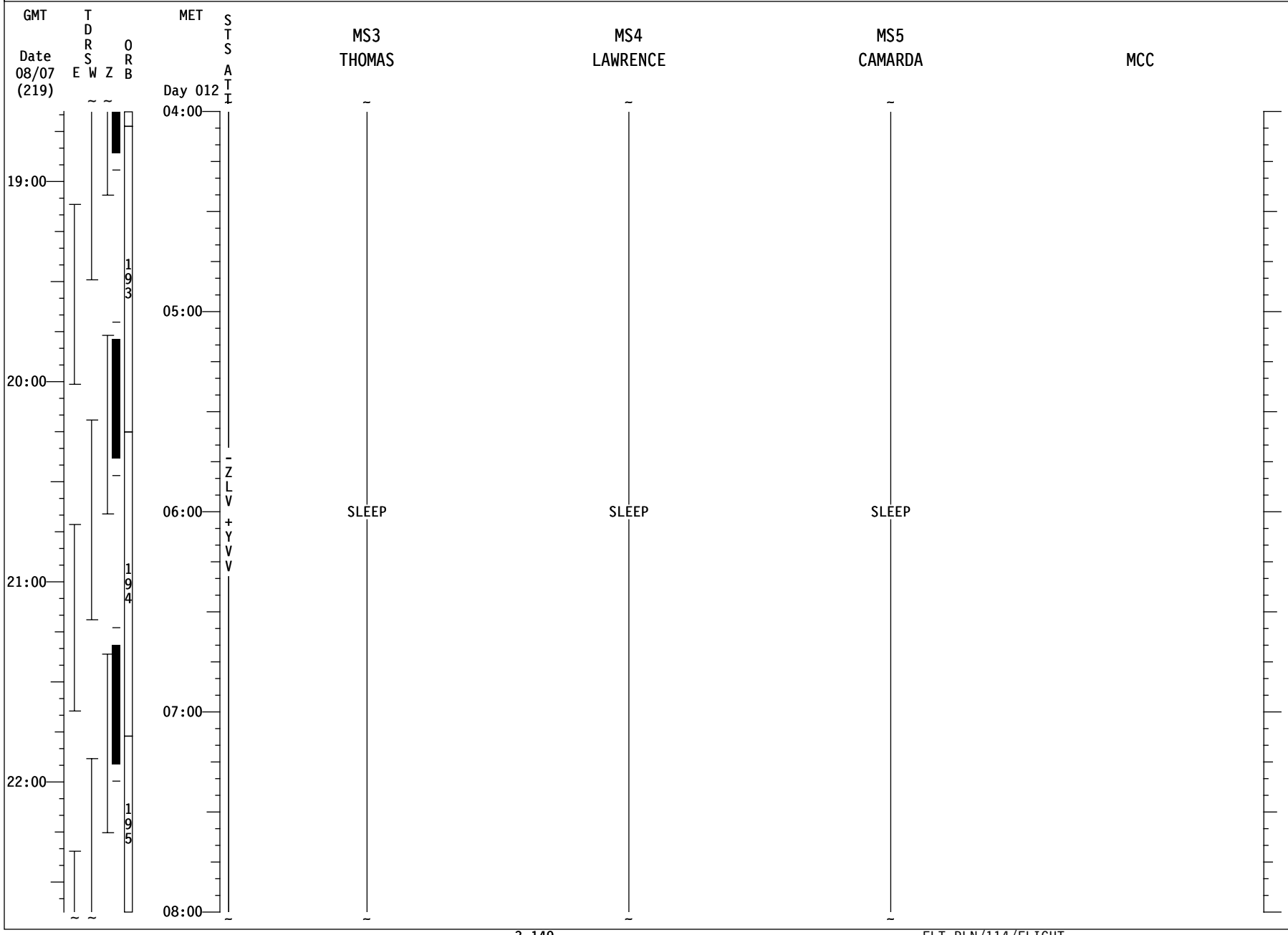
STS-114 LF1 (FD13)

REPLANNED

GMT Date 08/07 (219)	TDRS E W Z	ORB	MET Day 012	STS ATI	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
19:00		193	04:00						
20:00			05:00						
21:00		194	06:00	-ZLV +YVV	SLEEP	SLEEP	SLEEP	SLEEP	
22:00		195	07:00						
			08:00						

STS-114 LF1 (FD 13)

REPLANNED



STS-114 LF1 (FD14)

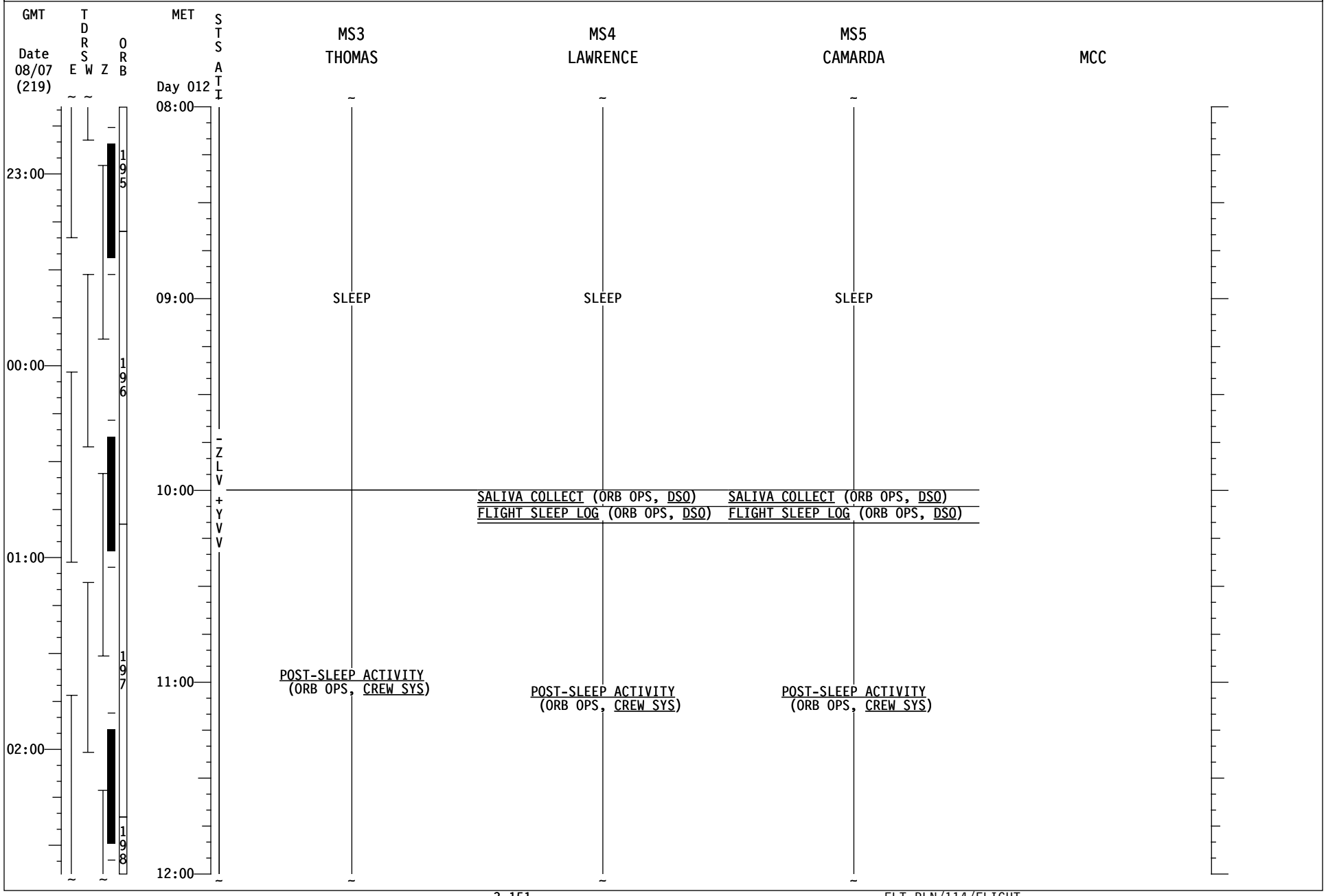
REPLANNED

GMT Date 08/07 (219) | TDRS E W Z | ORB 195 196 197 198 | MET Day 012 | STS ATI -ZLV +YVV

MET	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
08:00					
09:00	SLEEP	SLEEP	SLEEP	SLEEP	
10:00		SALIVA COLLECT (ORB OPS, DSO)	**FD13 EZ ACTIVITIES BEFORE LEAVING FLT PLN** FLUID LOADING PREP Fill drink containers per MSG 157 Remove Loose items stored in Airlock Perform SEAT INSTALLATION Perform ENTRY STOWAGE (FLTSW/RETN NET) (REF DATA, ENT STOW) STOW CSA-CP		
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
11:00	A6L: MADS STRAIN GAGE - ON	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)	
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
	SSP1 MPLM CH 1,2 HTR PWR -ON (tb-gray)				
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
	06 √UHF MODE - OFF A/G PRIVATE MEDICAL CONFERENCE				
12:00					

STS-114 LF1 (FD 14)

REPLANNED



STS-114 LF1 (FD14)

REPLANNED

GMT — Date 08/08 (220) — TDRS E W Z — ORB

MET — Day 012 — STS ATT

CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
PRIORITY PWRUP GRP B (ORB PKT, PRIOR PWRDN) In Step 12:Recover IMU 3 In Step 6:Dual G2, NBAT 1212	PRIORITY PWRUP GRP B (ORB PKT, PRIOR PWRDN) In Step 12:Recover IMU 3 In Step 6:Dual G2, NBAT 1212	POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
MNVR IMU ALIGN ATT A (pg 3-154) A1/AUTO/VERN Init MNVR (12:20)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	GALLEY MORNING CONFIG (ORB OPS, ECLS)	PGSC STOW Stow remaining STS PGSCs	
IMU ALIGN - S TRK (ORB OPS, GNC)				
MNVR IMU VERIF ATT B (pg 3-154) A1/AUTO/VERN Init MNVR				
IMU ALIGN - S TRK (ORB OPS, GNC)		GIRA STOWAGE (ORB OPS, ECLS) After fluid loading water pulled	COLOR PRINTER STOW (ORB OPS, PGSC)	
MNVR (TRK) -XSI ATT TG=4 BV=5 P=184 Y=0 OM=90 A1/AUTO/VERN Init TRK (12:47)	A6L: MADS STRAIN GAGE - PCM ENA			

Time scale: 03:00, 04:00, 05:00, 06:00; 12:00, 13:00, 14:00, 15:00, 16:00

Ground-track: 198, 199, 200

STS ATT: IMU, -XSI, COMM

TRANSITION TO D/O PREP @ 12/13:01

STS-114 LF1 (FD 14)

GMT Date 08/08 (220) | TDRS E W Z | ORB 198 199 200 | MET Day 012 | STS ATI IMU -XSI COMM

MS3 THOMAS | MS4 LAWRENCE | MS5 CAMARDA | MCC

12:00

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

FORMALDEHYDE MONITOR KIT (ORB OPS, CREW SYS) Steps 7-11

OCAC STOWAGE (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

DOFF ACT WATCH (ORB OPS, DSO)

TISSUE EQUIV PROP COUNTER (ORB OPS, CREW SYS)

Powerdown

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

DOFF ACT WATCH (ORB OPS, DSO)

MIDDECK STATUS CHECKS (ASSY OPS, CUE CARD)

AIR SAMPLE

Record MET and location on bottle

03:00 04:00 05:00 06:00 13:00 14:00 15:00 16:00

TRANSITION TO D/O PREP @ 12/13:01

A IMU STAR ALIGN

ID: -Y: 43 RASALHAGUE
MET (12/12:28 TO 12/13:22)

-Z: 76 EPSILON CENTAURI
MET (12/12:20 TO 12/13:09)

ANG DIFF: 82.7

DUAL S TRKR ALIGNMENT		2nd ATTITUDE (SINGLE S TRKR) -Z: 43 -Y: 76	
R 350	R	265	78
P 31	P	32	42
Y 337	Y	345	347

REQD ID:

-Y:_____, -Z:_____, ANG ERR____,____,____

ANG:	1	2	3
ΔX	( )___,___,___	( )___,___ ___	( )___,___ ___
ΔY	( )___,___,___	( )___,___ ___	( )___,___ ___
ΔZ	( )___,___,___	( )___,___ ___	( )___,___ ___

EXECUTION TIME: ___/___:___:___ MET

B IMU STAR VERIFICATION

ID: -Y: 75 ZETA OPHIUCHI
MET (12/12:24 TO 12/13:13)

-Z: 95 BETA GRUIS
MET (12/12:40 TO 12/13:24)

ANG DIFF: 83.2

DUAL S TRKR ALIGNMENT		2nd ATTITUDE (SINGLE S TRKR) -Z: 75 -Y: 95	
R 350	R	260	80
P 313	P	302	325
Y 327	Y	337	337

REQD ID:

-Y:_____, -Z:_____, ANG ERR____,____,____

ANG:	1	2	3
ΔX	( )___,___,___	( )___,___ ___	( )___,___ ___
ΔY	( )___,___,___	( )___,___ ___	( )___,___ ___
ΔZ	( )___,___,___	( )___,___ ___	( )___,___ ___

If any ΔX, ΔY, OR ΔZ > 0.1 Check MCC
EXECUTION TIME: ___/___:___:___ MET

MSG 154A - FD13 MISSION SUMMARY

Good Morning Discovery!

Your undocking and fly-around were picture perfect.

The “good-byes” are behind you, the “hellos” are in front.

Window inspection has been added to your timeline for today and also, time has been allotted to verify your comm setup before today’s PAO event.

The timeline for both today and tomorrow are now onboard.

Have a great day!

YOUR CURRENT ORBIT IS: 194 X 187 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
HOLOMON TACAN (HMN) 92X INOP
CHERRY POINT TACAN (EWN) 83X INOP

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 188 - 11/21:19
EDW22 ORB 203 - 12/20:10

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

CURRENT OMS QUANTITIES(%)

L OMS	OX = 34.0	R OMS	OX = 33.8
	FU = 34.4		FU = 34.5

DELTA V AVAILABLE:

OMS	328 FPS
ARCS (TOTAL ABOVE QTY1)	27 FPS
TOTAL IN THE AFT	355 FPS
ARCS (TOTAL ABOVE QTY2)	57 FPS
FRCS (ABOVE QTY 1)	20 FPS
AFT QTY 1	79 %
AFT QTY 2	41 %

SYSTEM	FAILURE	IMPACT	WORK AROUND
RCS	R5R Low Pc	Possible fail-off and deselect of R5R.	After RCS Hot Fire this jet will be deselected. Vernier attitude control is possible without this jet.

Thermal Window Assembly Inspection Procedure

OBJECTIVE: Visually inspect windows, paying attention to the thermal seal area for signs of Tyvek thruster rain cover trapped under the window retainer and/or thermal seal. Inspect the thermal window pane viewing area for signs of damage not previously reported. Photograph any suspect areas.

This inspection will establish the on-orbit condition of all thermal window assemblies prior to entry.

LOCATION: In priority order, W2, 3, 4, 5, 1, 6, 7, 8, 11

TOOLS REQD: Flashlight
DCS 760 Camera w/ 50mm lens and flash

CAMERA CONFIGURATION:
Lens – 50mm
Camera Settings
- PWR – ON
- √ Disk installed
- Rear LCD
  - √ Battery
  - √ White balance – Flash
- ISO – 100
- √ BKT disabled
- √ Focus area – Center, LOCK displayed
- Exp Comp – 0.0
- Exp Mode – A
- AF Area Mode – [](no “+”)
- Meter – Matrix
- Diopter – Adjust
- Film Adv – S
- Body Focus Mode – M
  - Set lens focus to minimum and tape
- Aperture – Min, locked
  - f/stop – F8

Flash Settings
- ON/OFF – ON
- √ TTL, Matrix
- Tilt – minus 7
- Diffuser - deployed

VISUAL INSPECTION

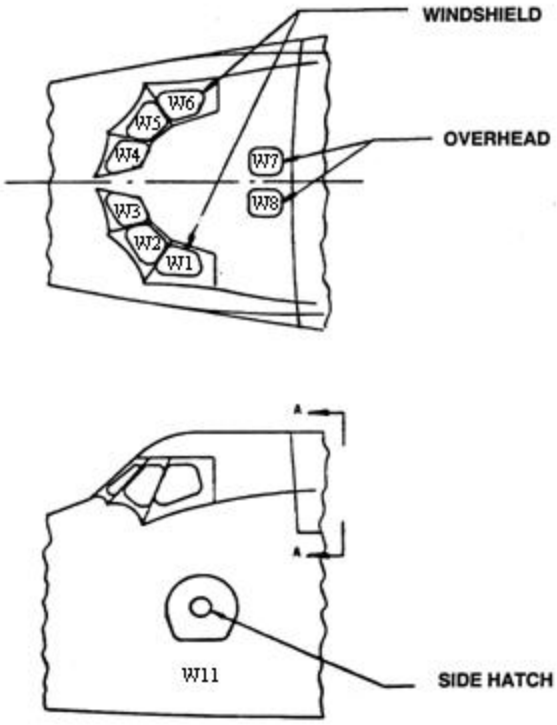
1. Turn off cabin lights
2. Adjust the flashlight to a focused beam.
3. Visually inspect the thermal window retainer, the window thermal seal, and the thermal window viewing area around window 2 for debris by shining the flashlight into the window at an angle of incidence of 45 degrees or less when sun light is not available on window surface.
4. If debris seen, photograph area per instructions below.
5. Repeat steps 3 & 4, as time permits, for windows 3, 4, 5, 1, 6, 7, 8, and 11 in order of priority.
6. Turn on cabin lights.

TECHNIQUE FOR PHOTOGRAPHY:

1. Shine flashlight into window at an angle of incidence of 45 degrees or less to illuminate the target for focusing.
2. Move the camera in/out until target is in focus and take picture at an angle of 20 degrees or more off perpendicular to the window to keep the flash reflection out of the field-of-view. Check image for focus and exposure.

Note: W3 and W4 may require focus change to position camera around HUD. If sun is shining through the window surface, turn the flash off.

CAUTION
To prevent damage to the pressure pane and pressure pane coatings, avoid any contact with the window.


WINDSHIELD
OVERHEAD
W6
W5
W4
W7
W8
W3
W2
W1
A
A
W11
SIDE HATCH