

STS-117/13A

FD 12 Execute Package



MSG	Page(s)	Title
100B	1 - 13	FD12 Flight Plan Revision (pdf)
101	14 - 15	FD12 Mission Summary (pdf)
103	16	Modified Group C Powerup (pdf)
102C	---	FD11 MMT Summary (pdf - Electronic Only)

Approved by FAO: Linda DeLapp

Last Updated: Jun 19 2007 9:43AM GMT

JEDI (Joint Execute package **D**evelopment and **I**ntegration), v2.04.0003

MSG 100B - FD12 FLIGHT PLAN REVISION

1 5. Swanny, here are some big pictures words on WLES operations for the day:
2

3 After Undock, you will recover STS6 as the backup WLES laptop per the pre-flight plan.
4 After this (during your meal), we will issue a ground command to swap to STS6 as prime
5 and STS7 as backup for WLES. This will put you in a good configuration to reboot STS7
6 for OBSS ops. After OBSS ops, you will have a 5 minute activity where you will restart
7 the WLES software on STS7 in Secondary mode. We will remain in this configuration
8 overnight and swap back to our nominal configuration (STS7 prime & STS6 backup) via
9 ground command the morning of FD13.

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11 6. If needed, the following are the Orbiter Ku opportunities for crew choice downlinks at the
12 end of the day:
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14 TDRS W: 11/01:06 - 11/01:24

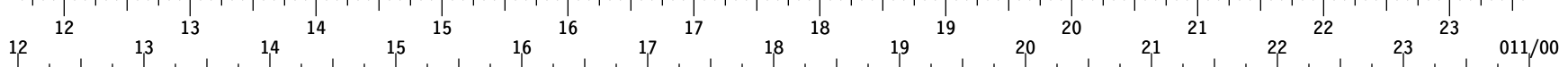
15 TDRS E: 11/01:35 - 11/02:01

16 TDRS W: 11/02:34 - 11/03:01
17

18 7. REPLACE PAGES 2-42, 2-44, 3-128 THROUGH 3-135.
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FD12

GMT 06/19/07 (170)
 β=18
 MET Day 010



STS-117	CDR STURCKOW	POST SLEEP	M/O	POST SLEEP	XZLVV*	UNDOCK OPS	FLYAROUND	SEP	SEP	GRWBND	FEI	MEAL	FC*	MNTVRD	FEI	MNOVRE	MNOVRT	EXERCISE	PRE SLEEP	NC5^	MNOVRM	
	PLT/R2/M1 ARCHAMBAULT	POST SLEEP	H2OS#	GRWRUP	GRWRUP	POST SLEEP	UNDOCK OPS	FLYAROUND	SEP	GRWRUP	CABT	MEAL	OBSS UNBRTH	STBD WING SRVY	NOSE CAP SRVY	PORT WING SRVY	PRE SLEEP	RCS BURN	RCS			
	MS1/EV3/R1 FORRESTER	POST SLEEP	GRWRUP	GRWRUP	POST SLEEP	UNDOCK OPS	FLYAROUND	SEP	GRWRUP	SEIOI*		MEAL	OBSS UNBRTH	STBD WING SRVY	NOSE CAP SRVY	PORT WING SRVY	OBSS BERTH	RMSRDN	PRE SLEEP			
	MS2/EV4/M2 SWANSON	POST SLEEP	SETUP C/L CAMR	UNDOCK OPS	FLYAROUND	SEP	GRWRUP	HTW				MEAL		STBD WING SRVY	NOSE CAP SRVY	PORT WING SRVY	OBSS BERTH	WLES	PRE SLEEP			
	MS3/EV2/R1 OLIVAS	POST SLEEP	P/TV03 S/U	P/TV03 S/U	UNDOCK	SEP	MCIU					MEAL		PDEVAOC3T	EXERCISE	POST EVA ENT PREP	PRE SLEEP					
	MS4/EV1 REILLY	POST SLEEP	SETUP C/L CAMR	UNDOCK OPS	FLYAROUND	SEP	POST UNDK PGSC CNFG					MEAL	C/L CAMR T/D	EMU INSTL	EXERCISE	EVA UNPACK & STOW	POST EVA ENT PREP	PRE SLEEP				
	MS5 WILLIAMS	POST SLEEP	UNDOCK OPS	FLYAROUND	SEP	MEAL									EXERCISE		PRE SLEEP					
EXP-15	ISS CDR ЮРЧИХИН	POST SLEEP	PW	DPC	PCSD	UNDK*KEO	PMC	COM	COJ	IMS	MIDDAY-MEAL	HAM	METX#	VELO	PRE SLEEP	SLEEP						
	FE-1 KOTOV	POST SLEEP	PREP WORK	KRG	DPC	PRNEDW	PMC	CGO ACY MП Φ R&R	PMA2 DPRS	MIDDAY-MEAL	CGO-ACY-E-K-REPLC	RED	PRE SLEEP	SLEEP								
	FE-2 EXP15 ANDERSON	POST SLEEP	PREP WORK	DPC	VTR CBL	EXERCISE RED	PMA2 CNFG	SD OPLY	SCLEAN	EXERCISE TVIS	MIDDAY-MEAL	PLI MKN IACT	PDT MEE APR 2RMS	PMC	RWS	BPT SO MWU	JRN L	PRE SLEEP	SLEEP			
SSRMS DAY/NIGHT	[Visual representation of day/night cycle]																					
STS	ORBIT	[Visual representation of orbit timeline]																				
	TDRS	W -171	[Visual representation of TDRS timeline]																			
	ORB ATT	BIAS -XLV	-ZVV	-XLV +ZVV	FLYAROUND	SEP	-ZLV -XVV	BIAS +YSI	+XSI	BIAS -YSI	NC5											
NOTES	*NOM CNFG #HTR ACT *ACT #INIT *10/15:04 *DEACT *PURGE MANUAL *TERM #INIT																					

FD12

06/19/07 04:26:02

REPLANNED

GMT 06/19/07 (170)

MET Day 011



S T S - 1 1 7	CDR STURCKOW	PRE SLEEP	Z L V	X V V	PMC A/G	PRE SLEEP	SLEEP					POST SLEEP	
	PLT/R2/M1 ARCHAMBAULT	PRE SLEEP*					SLEEP					POST SLEEP	
	MS1/EV3/R1 FORRESTER	PRE SLEEP					SLEEP					POST SLEEP	
	MS2/EV4/M2 SWANSON	PRE SLEEP					SLEEP					POST SLEEP	
	MS3/EV2/R1 OLIVAS	LDRI DNK	PRE SLEEP					SLEEP					POST SLEEP
	MS4/EV1 REILLY	PRE SLEEP					SLEEP					POST SLEEP	
	MS5 WILLIAMS	PRE SLEEP			PMC A/G	PRE SLEEP		SLEEP					POST SLEEP
S T S	DAY/NIGHT	[Timeline with alternating black and white bars representing day and night]											
	ORBIT	175	176	177	178	179	180	181	182	183			
	TDRS	W -171	[Timeline with horizontal bars representing TDRS events]										
		E -46	[Timeline with horizontal bars representing TDRS events]										
	Z -275	[Timeline with horizontal bars representing TDRS events]											
	ORB ATT	COMM	[Timeline with horizontal bars representing orbital attachment events]										
	NOTES	*HUM SEP											

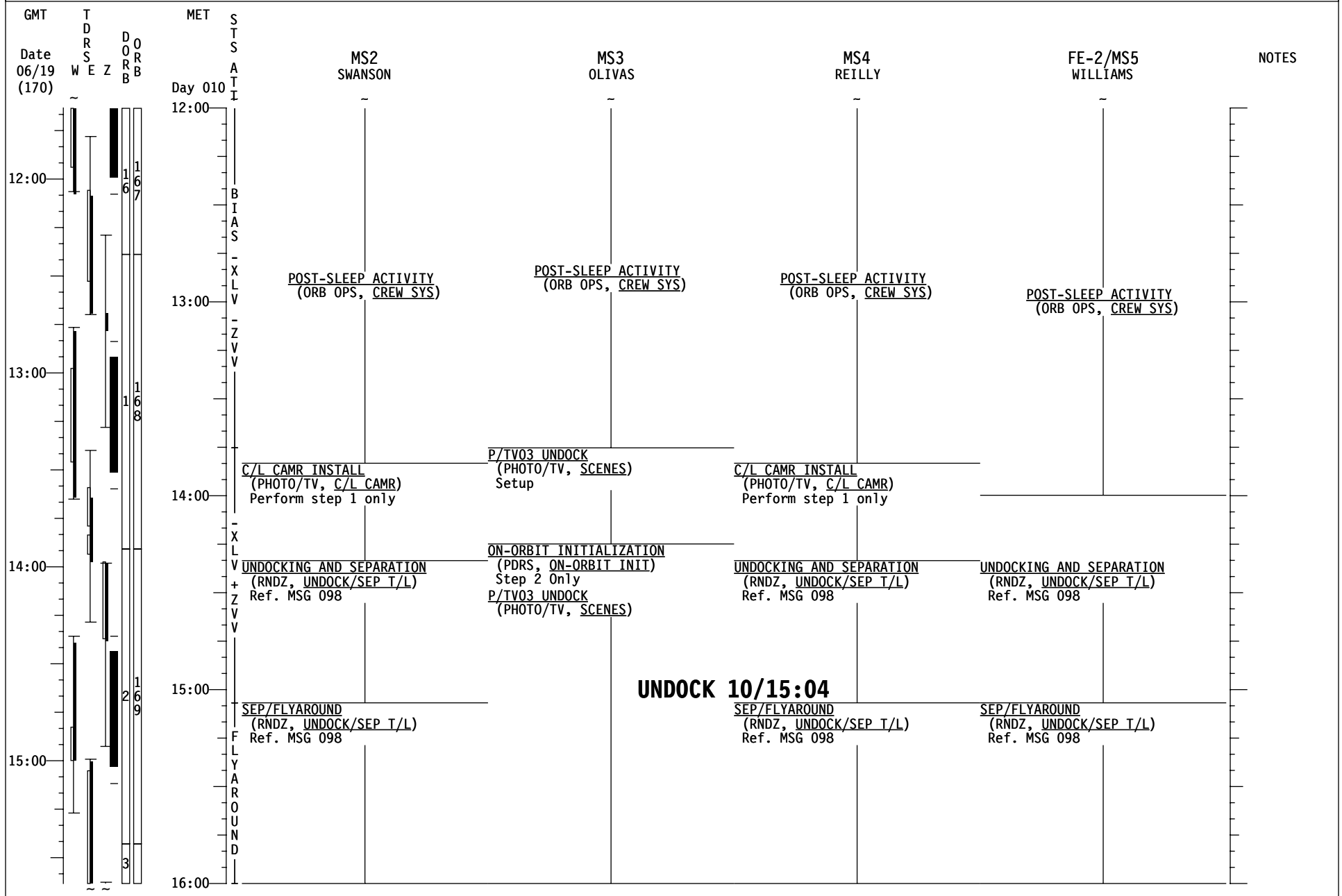
STS-117 (FD12)

REPLANNED

GMT	T D R S E Z	D O R B	MET	S T S	CDR	PLT	MS1	NOTES
Date	W E Z	ORB	Day	A T T I	STURCKOW	ARCHAMBAULT	FORRESTER	
06/19 (170)			010					
12:00		167			<p>A TG=2 BV=5 P=156.3 Y=3.1 OM=179.7 A12/FREE/VERN Init TRK</p> <p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p>	<p>FD12 EZ ACTIVITIES: OCAC FILTER INSPECTION HARD REBOOT ALL PGSCs EXCEPT: WLES (STS7)</p>		
12:00		167			<p>B MNVR (TRK) UPDATE (TEA) A I JOINT OPS: 3.110 H/O ATT CONTROL A CMG TA TO ORB</p>	<p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p>	<p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p>	
13:00						<p>NOMINAL H2O CONFIG (ORB OPS, ECLS) LI TOPPING EVAP HTR DUCT sel - B NOZ L,R(two) - B AUTO</p>		<p>UPLINK TFL 192 PDI-ON PSP 1-ON</p>
13:00		168			<p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p>	<p>PRIORITY PWRUP GRP C Ref. MSG 103</p>	<p>PRIORITY PWRUP GRP C Ref. MSG 103</p>	
13:00						<p>PRIORITY PWRUP GRP B (ORB PKT, PRIOR PWRDN) Steps 12 & 6(Triple G2)</p>	<p>PRIORITY PWRUP GRP B (ORB PKT, PRIOR PWRDN) Steps 12 & 6(Triple G2)</p>	
14:00					<p>MNVR (TRK) -XLV +ZVV (Undock) TG=2 BV=5 P=180 Y=0 OM=0 A12/AUTO/VERN (10/13:45) Init TRK</p> <p>PCS ACTIVATION B MO10W 14.7 CAB REG INLET SYS 1 VLV - OP</p>	<p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p>	<p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p>	
14:00					<p>UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098</p>	<p>√MCC for FES activation LI FLASH EVAP CNTLR PRI A - ON UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098</p>	<p>UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098</p>	
15:00		169			<p>SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098</p>	<p>UNDOCK 10/15:04 SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098</p>	<p>SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098</p>	
15:00					<p>B Avoid WCS use during high N2 flow Expect possible "S66 CAB N2 FLO 1" msg Duration of high flow will be ~10 mins Ref. MSG 100, Item 1</p>			<p>UPLINK β21 only Box B1</p>
16:00		3						

STS-117 (FD12)

REPLANNED



STS-117 (FD12)

REPLANNED

GMT Date 06/19 (170)	T D R S E Z	D O R B	MET Day 010	S T S A T T	CDR STURCKOW	PLT ARCHAMBAULT	MS1 FORRESTER	NOTES
16:00					SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098	
16:00					< SEP 1 10/16:19			
					< SEP 2 10/16:47			
17:00					PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6(Single G2),9,10 & 12	RMS PWRUP (PDRS, RMS PWRUP) Ref. MSG 045	JOINT OPS: 6.106 SSOR DEACTIVATION	UPLINK β21 + Mask
17:00					SUPPLY H2O DUMP USING FES (ORB OPS, ECLS) Step 1, Pri A	CAB TEMP CNTRL RCNEG-2(1) (ORB OPS, ECLS) Configure to Cabin Temp Controller 2	SSP1 OIU PWR - OFF (tb-bp) Expect S62 BCE BYP PSP 1	UPLINK TFL 188 PSP-OFF
18:00					MEAL	MEAL	MEAL	
18:00					FC PURGE - MANUAL (ORB OPS, EPS) Ref. MSG 045	OBSS UNBERTH (PDRS, OBSS NOM OPS) Ref. MSG 045	OBSS UNBERTH (PDRS, OBSS NOM OPS) Ref. MSG 045	UPLINK β21 only Box A2
19:00					MNVR (TRK) BIAS +YSI (STBD Survey) TG=4 BV=5 P=0 Y=45 OM=40 A14/AUTO/VERN On MCC Go, Init TRK	OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS NOM OPS) Ref. MSG 100, Item 3	OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS NOM OPS) Ref. MSG 100, Item 3	UPLINK β21 only Box A3
19:00								
20:00					SUPPLY H2O DUMP USING FES (ORB OPS, ECLS) On MCC GO: Step 2, FES Pri A req'd			

STS-117 (FD12)

REPLANNED

GMT Date 06/19 (170)	T D R S E Z	D O R B	MET Day 010	S T S A T T	MS2 SWANSON	MS3 OLIVAS	MS4 REILLY	FE-2/MS5 WILLIAMS	NOTES
			16:00		SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L) Ref. MSG 098	
			16:00		< SEP 1 10/16:19				
					< SEP 2 10/16:47				
			17:00		PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6(Single G2),9,10 & 12		POST UNDOCK PGSC CONFIG Configure PGSCs		
			17:00		HTR RECNFG-CNFG B (ORB OPS, EPS) L17 Check MCIU filter screen Ref. MSG 100, Item 2				
			17:00		WLES RECONFIG POST DOCK/UNDOCK SSV OUTFATE - 4 (ORB OPS, WLE SENSORS)				
			18:00		MEAL	MEAL	MEAL	MEAL	
			18:00				C/L CAMR INSTALL (P/TV, C/L CAMR) Step 4 only		
			18:00				EMU INSTALLATION (EVA, AIRLOCK CONFIG)		
			19:00		OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS NOM OPS) Ref. MSG 100, Item 3		P/TV03 UNDOCK (PHOTO/TV, SCENES) Deactivation In Step 2, omit R12, A7, and L12 actions		
			19:00				EXERCISE		
			20:00			EXERCISE			

STS-117 (FD12)

REPLANNED

GMT	TDRS W E Z	DORB	MET	STS	CDR STURCKOW	PLT ARCHAMBAULT	MS1 FORRESTER	NOTES
Date 06/19 (170)			Day 010	ATI				
20:00		172				OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS NOM OPS) Ref. MSG 100, Item 3	OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS NOM OPS) Ref. MSG 100, Item 3	
20:00		572			MNVR (TRK) BIAS +XSI (Nose Cap Survey) TG=4 BV=5 P=330 Y=0 OM=145 A14/AUTO/VERN On MCC Go, Init TRK	OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS NOM OPS)	OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS NOM OPS)	UPLINK β12 only
21:00		173						
21:00		673			MNVR (TRK) BIAS -YSI (Port Survey) TG=4 BV=5 P=0 Y=323 OM=340 A14/AUTO/VERN On MCC Go, Init TRK	OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS NOM OPS)	OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS NOM OPS)	UPLINK β21 only Box A2
					IMU STAR OF OPPTY ALIGN (ORB OPS)			
22:00				BIAS	EXERCISE			
22:00				YSI				
23:00		174			PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	OBSS BERTH (PDRS, OBSS NOM OPS) Ref. MSG 045	
23:00		774			ON-ORBIT MULTI-AXIS RCS BURN (ORB OPS, RCS)	ON-ORBIT MULTI-AXIS RCS BURN (ORB OPS, RCS)	RMS PWRDN (PDRS, RMS PWRDN) Stow PORT and STBD MPM's, Ref. MSG 045 PORT RMS HTR - A-OFF, B-AUTO	UPLINK β21 + Mask
				NC5	< NC5 TIG (10/23:40)			
00:00		875			MNVR (TRK) SUN TRACK (LDRI Downlink) TG=4 BV=5 P=90 Y=0 OM=0 A1/AUTO/VERN Init TRK	RCS REG RCNFG (ORB OPS, RCS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	

STS-117 (FD12)

REPLANNED

GMT	T D R S E Z	D O R B	MET	S T S	MS2 SWANSON	MS3 OLIVAS	MS4 REILLY	FE-2/MS5 WILLIAMS	NOTES
Date 06/19 (170)	W	E	Day 010	A T I					
20:00		172			OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS NOM OPS) Ref. MSG 100, Item 3		EXERCISE		
20:00		572			OBSS LDRI/IDC RCC SRVY-NOSE CAP (PDRS, OBSS NOM OPS)	EXERCISE			
21:00		673					POST EVA RECONFIG AND TRANSFER (EVA, A/L CONFIG) Perform EVA UNPACK AND STOW Step 40 Ref. MSG 093, Item 2		
21:00		173			OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS NOM OPS)	POST ISS EVA ENT PREP (EVA, POST EVA ENT PREP)	POST ISS EVA ENT PREP (EVA, POST EVA ENT PREP)	EXERCISE	
22:00									
22:00		174			OBSS BERTH (PDRS, OBSS NOM OPS) Ref. MSG 045				
23:00					RECOVER STS7 IN BACKUP MODE Restart WLES software on STS7 in "secondary" mode.	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
23:00		875			PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
00:00									

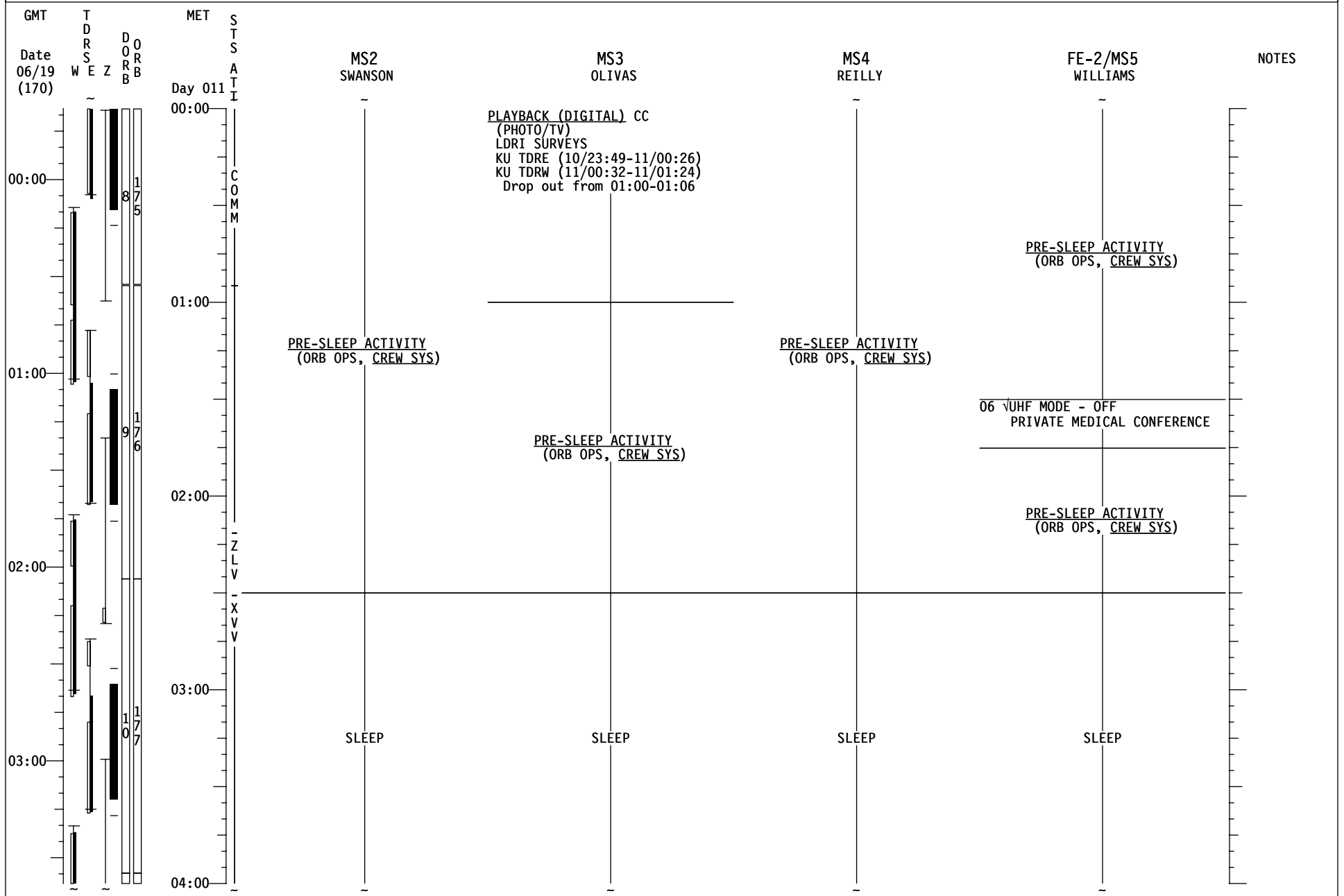
STS-117 (FD12)

REPLANNED

GMT	T D R S E Z	D O R B	MET	S T S	CDR	PLT	MS1	NOTES
Date 06/19 (170)	W E Z	ORB	Day 011	A T I	STURCKOW	ARCHAMBAULT	FORRESTER	
00:00			00:00	COMM	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
01:00			01:00		MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN (11/00:55) Init TRK 06 VUHF MODE - OFF PRIVATE MEDICAL CONFERENCE	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) √HUM SEP for H2O Accumulation	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
02:00			02:00	ZLV	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
03:00			03:00	XVV	SLEEP	SLEEP	SLEEP	
04:00			04:00					

STS-117 (FD12)

REPLANNED



MSG 101 (15-0493) - FD12 MISSION SUMMARY

Page 1 of 2

1 Good Morning Atlantis!
2 Another wonderful day in space yesterday. We look forward to today's undock and fly-
3 around. Your crew did amazing work to get the ISS into its' new configuration.

4
5 YOUR CURRENT ORBIT IS: 185 X 178 NM

6
7 NOTAMS:

8
9 MORON (MRN) – CLOSED
10 WAKE ISLAND (WAK) - CLOSED
11 GOOSE BAY (YYR) – RWY 08/26 CLOSED
12 LAJES (LAJ) – TACAN LAJ CH45 UNUSABLE
13 KEFLAVIK (IKF) – UNUSABLE
14 RIO GALLEGOS (AWG) – UNUSABLE
15 HONOLULU (HNL) – VORTAC UNSERVICEABLE 11/17:50 UNTIL 12/01:50

16
17 NEXT 2 PLS OPPORTUNITIES:

18
19 NOR17 ORB 172 – 10/19:40 (SCT120 SCT250 170/6P10)
20 EDW22 ORB 188 – 11/19:59 (SKC 240/12P22) AFTER 12/00:11 (SKC 240/17P27)

21
22 OMS TANK FAIL CAPABILITY:

23
24 L OMS FAIL: NO R OMS FAIL: NO

25
26 LEAKING OMS PRPLT BURN:

27
28 L OMS LEAK: ALWAYS RETROGRADE
29 R OMS LEAK: ALWAYS RETROGRADE

30
31 OMS QUANTITIES(%)

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33 L OMS OX = 31.0 R OMS OX = 33.0
34 FU = 30.8 FU = 32.5

35
36 SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

37
38 DELTA V AVAILABLE:

39
40 OMS 321 FPS
41 ARCS (TOTAL ABOVE QTY1) 50 FPS
42 TOTAL IN THE AFT 371 FPS
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44 ARCS (TOTAL ABOVE QTY2) 84 FPS
45 FRCS (ABOVE QTY 1) 14 FPS
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47 AFT QTY 1 76 %
48 AFT QTY 2 38 %

MSG 101 (15-0493) - FD12 MISSION SUMMARY

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<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
EPS	Panel A6U ANNUN BUS SEL causes a high-pitched interference noise when in either MNB or MNC position.	A high-pitched noise will be produced over the flight deck speakers when Panel A6U ANNUN BUS SEL is taken to the MNB or MNC position.	Adjustment of the A6U ANNUN INTEN SEL switch may minimize the noise. If not, panel A6U ANNUN BUS SEL can be taken to OFF unless it is needed. It can be taken to either the MNB or MNC position when required.

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MSG 103 - MODIFIED GROUP C POWERUP

PNL	PWRUP
O6	1. MDM PL2 - ON 2. MDM FF2,4 (two) - ON 3. MDM FA3,4 (two) - ON 4. S TRK PWR -Y - ON -Z - ON
O16:E	5. GNC I/O RESET 6. SM I/O RESET 7. cb MNC RCS/OMS PRPLT QTY GAUGE - cl
O15:B	8. ASA 4 - ON 9. cb MNB OI TIRE PRESS - cl EVENT TIMER FWD - cl MSN TIMER AFT - cl
O14:B	10. cb MNA MSN TIMER FWD - cl EVENT TIMER AFT - cl
L4:J	11. cb AC3 ϕ A SIG CONDR HUM SEP - cl ϕ B SIG CONDR IMU FAN - cl
R14:A	12. cb MNA ADC 1A/2A - cl MNB ADC 1B/2B - cl
SSP1	13. OIU PWR - OIU 1 ON (tb-UP)
SSV	14. SSV PWR - ON OUTRATE - 3
ML31C	15. Perform GPS PWRUP (ORB OPS, <u>GNC</u>) for GPS 2
Ergometer	16. VAC VENT NOZ HTR - ON
OCAC	17. Use cycle ergometer as required 18. OCAC PWR - ON as required

MSG 102B (15-0494B) - FD11 MMT SUMMARY

Page 1 of 1

1 **FD11 MMT Crew Summary**

2

3 The MMT met briefly to discuss mission progress, the A6U annunciator panel, and status of
4 the ISS attitude control capability. The team is go for undocking tomorrow!

5

6 **Panel A6 Annunciator Interference:**

7 The team has concluded that the high pitched noise from the panel is the result of vibration
8 within the ACA 4 & 5 oscillator cards. This is a mechanical phenomenon that is electrically
9 induced and is not a constraint to nominal operation of the ACA. This has been noted on a
10 previous flight and in SAIL. We expect that you will have the ACA powered on for
11 undock/flyaround and adjustment of the lighting intensity may provide a workaround to
12 minimize the noise.

13

14 **ISS Attitude Control Capability:**

15 ISS performed a successful SARJ Checkout, MT Translation, and handover to Russian
16 attitude control this morning. As a result, both the ISS and Shuttle teams have complete
17 confidence in the RS Central computer's ability to maintain attitude control for undocking.
18 The teams are still trying to determine the root cause, but clearly the bypassed circuit
19 protection is the likely culprit.

20

21 **Cryo margins:**

22 A total of 116 lbs of O2 was transferred to the ISS, which nicely topped off their O2 tanks.
23 Based on your power conservation efforts, even with the O2 transfer, we have EOM+3
24 capability!

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