

STS-117/13A

FD 02 Execute Package



MSG	Page(s)	Title
002	1 - 13	FD02 Flight Plan Revision (pdf)
003	14 - 15	FD02 Mission Summary (pdf)
004	16	H2O Activities Cue Card (pdf)

Approved by FAO: Linda Delapp

Last Updated: Jun 9 2007 1:21PM GMT

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

1 MSG INDEX

2

3 <u>MSG NO.</u>	<u>TITLE</u>
4 002	FD02 Flight Plan Revision
5 003	FD02 Mission Summary
6 004	H2O Activities Cue Card

7

- 8
- 9 1. The MCC has remotely uplinked the latest HazMat data file to all networked PGSCs
10 onboard. Please update all non-networked PGSCs with the latest HazMat data file by
11 performing the following steps:

12

13 From OCA ProShare PGSC

14 Copy Tox.haz from C:\OCA-UP\SPOCAPPS\UPLINK to PCMCIA Card

15

16 To update non-networked PGSCs

17 Copy Tox.haz from PCMCIA Card to C:\SPOCCAPPS\HAZMAT\UPDATES

- 18
- 19 2. The following changes to the OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS
20 OPS) are needed in order to prevent violation of a sun-in-FOV constraint for the IDC:

21

22 In step 7 (p.7-23), after LCC/PGSC sel 'Stop Scan', ADD "sel 'Power Off' "

23 In step 11 (p.7-27), prior to the auto mnvr, DELETE "LCC/PGSC sel 'Scan Hi-Res' "

24 In step 11 (p.7-28), after the auto mnvr, DELETE "LCC/PGSC sel 'Stop Scan' " and
25 "sel 'Power Off' "

- 26
- 27 3. Please perform the following jet reprioritizations, currently scheduled at MET 00/17:50:

28

29 GNC 23 RCS

30

31 ITEM 1 EXEC (Fwd Page)

32 ITEM 8 EXEC - twice (Places F1L in last priority)

33 ITEM 12 EXEC - twice (Places F2R in last priority)

34 ITEM 20 EXEC - twice (Places F2U in last priority)

35 ITEM 32 EXEC - twice (Places F3F in last priority)

36 ITEM 34 EXEC - twice (Places F2F in last priority)

37 ITEM 4 + 3 EXEC (Update Pri Jet Fail Limit to 3)

38

39 ITEM 2 EXEC (Left Page)

40 ITEM 16 EXEC - twice (Places L4U in last priority)

41 ITEM 8 EXEC - twice (Places L4L in last priority)

42 ITEM 12 EXEC - twice (Places L3L in last priority)

43

44 ITEM 3 EXEC (Right Page)

45 ITEM 16 EXEC - twice (Places R4U in last priority)

46 ITEM 8 EXEC - twice (Places R4R in last priority)

47 ITEM 12 EXEC - twice (Places R3R in last priority)

MSG 002 - FD02 FLIGHT PLAN REVISION

- 1 4. MS5 can access his e-mail as normal using the KFX laptop, however, for the WLES and
2 RPOP PGSCs he will need to first double-click on the shortcut (tree icon) on those
3 desktops before he can access his Outlook profile using those machines. He only needs
4 to run the shortcut once per PGSC. While the shortcut is currently only on the WLES
5 and RPOP PGSCs, it will eventually be uplinked to all machines on the network.
6
- 7 5. REPLACE PAGES 2-4 THROUGH 2-5 AND 3-8 THROUGH 3-15.
8
9

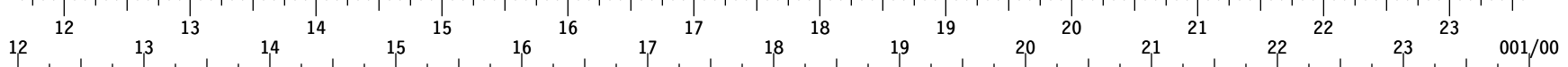
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FD02

06/09/07 07:35:26

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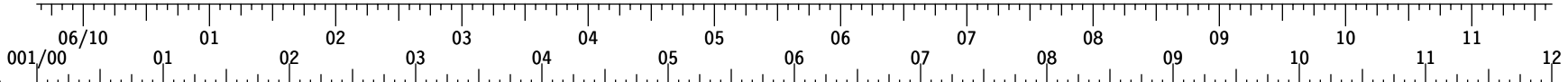
GMT 06/09/07 (160)
 β = 65
 MET Day 000



STS-117	CDR STURCKOW	SLEEP	POST SLEEP	G2 SET EXP	NC2^ OMS BURN	MUNVRETH	UNBRESRTH	G2SRETH	CNTSRTH	OTSRTH	RCS#	MNTVRD	CRYO O2 SNSR CK	FILTER CLEANING	MNOVRE	O2VLL*	O2VLL*	MEAL	MNOVRT	W/B*	MNOVRM	CWC S/U
	PLT/R2/M1 ARCHAMBAULT	SLEEP	POST SLEEP*	ICNSCT	POST SLEEP	OMS BURN	OBSS UNBRTH	STBD WING SRVY	NOSE CAP SRVY	MEAL	PORT WING SRVY	OBSS BERTH	MCIU									
	MS1/EV3/R1 FORRESTER	SLEEP	POST SLEEP	DRMVSACT	POST SLEEP	RPMWSUP	OBSS UNBRTH	STBD WING SRVY	NOSE CAP SRVY	MEAL	PORT WING SRVY	OBSS BERTH										
	MS2/EV4/M2 SWANSON	SLEEP	POST SLEEP	FCPRG*	POST SLEEP	STBD WING SRVY	NOSE CAP SRVY	MEAL	PORT WING SRVY													
	MS3/EV2/R1 OLIVAS	SLEEP	POST SLEEP	EMU C/O PREP	EMU C/O	EVA PREP FOR XFER	MEAL	P/TV01 VIDEO SETUP	SETUP C/L CAMR													
	MS4/EV1 REILLY	SLEEP	POST SLEEP	EMU C/O PREP	EMU C/O	EVA PREP FOR XFER	MEAL	P/TV01 VIDEO SETUP	ERG SETUP	SETUP C/L CAMR												
	MS5 ANDERSON	SLEEP	POST SLEEP	EMU C/O PREP	EMU C/O	EVA PREP FOR XFER	MEAL															
STS	DAY/NIGHT ORBIT	[Timeline bars for Day/Night and Orbit]																				
	TDRS	[Timeline bars for TDRS]																				
	ORB ATT	[Timeline bars for Orb Att]																				
NOTES	*HUM SEP *HTR *MANUAL *HTR RCNFG #REPRIORITIZATION *OPEN *CLOSE *CNTLR SWAP																					

FD02

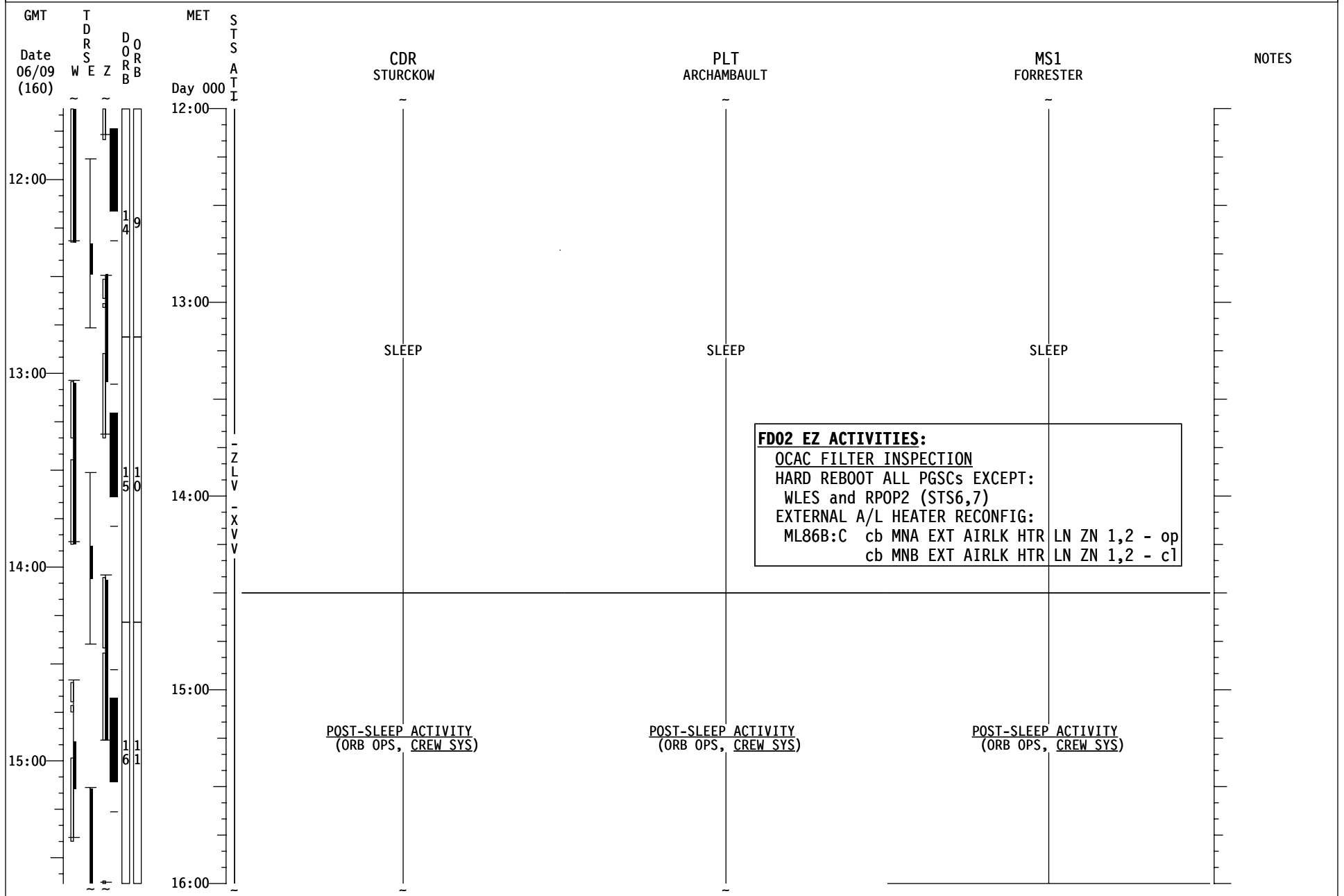
GMT 06/09/07 (160)
 β=63
 MET Day 001



STS-117	CDR STURCKOW	EXERCISE	G2 EXP	NC3^ OMS BURN	-ZLVV	FUNTR	GZS	CI	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP	
	PLT/R2/M1 ARCHAMBAULT			OMS BURN		EXERCISE			PRE SLEEP*			SLEEP	
	MS1/EV3/R1 FORRESTER	ODS RING EXT		LDRI DNK		PRE SLEEP			LDRI DNK		PRE SLEEP	SLEEP	
	MS2/EV4/M2 SWANSON	FCMS OPS		WLES		RNDZ TOOLS C/O			PRE SLEEP		EXERCISE	PRE SLEEP	SLEEP
	MS3/EV2/R1 OLIVAS					RNDZ TOOLS C/O			EXERCISE		PRE SLEEP	SLEEP	
	MS4/EV1 REILLY	ODS RING EXT			EXERCISE		XFER PREP				PRE SLEEP	SLEEP	
	MS5 ANDERSON			CIWN		EXERCISE		CTW			PRE SLEEP	SLEEP	
STS	DAY/NIGHT	[Timeline bars for Day/Night]											
	ORBIT	[Timeline bars for Orbit]											
	TDRS	W -171	[Timeline bars for TDRS]										
	E -46	[Timeline bars for TDRS]											
	Z -275	[Timeline bars for TDRS]											
	ORB ATT	COMM	NC3									-ZLV -XVV	
NOTES	*HUM SEP												

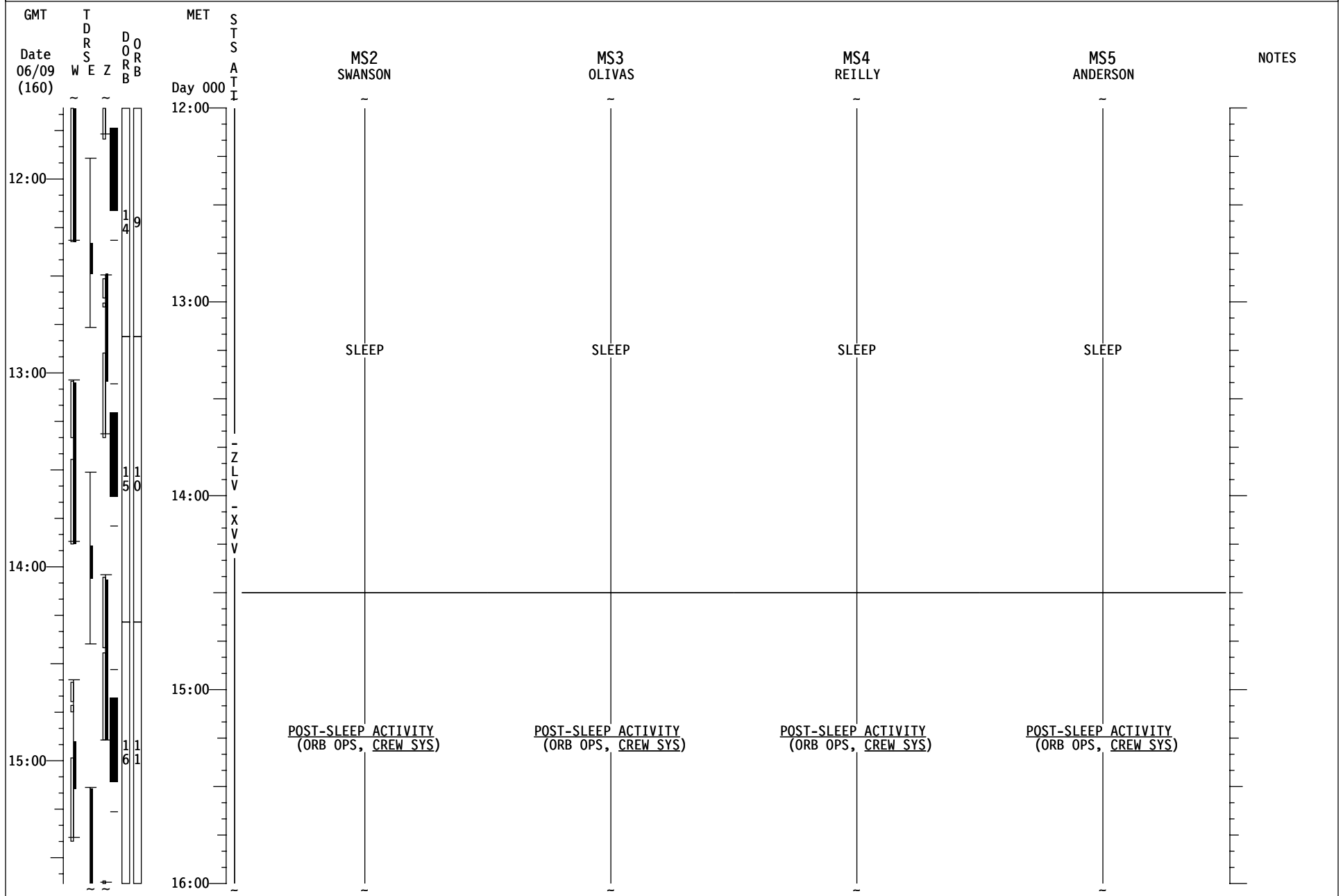
STS-117 (FD02)

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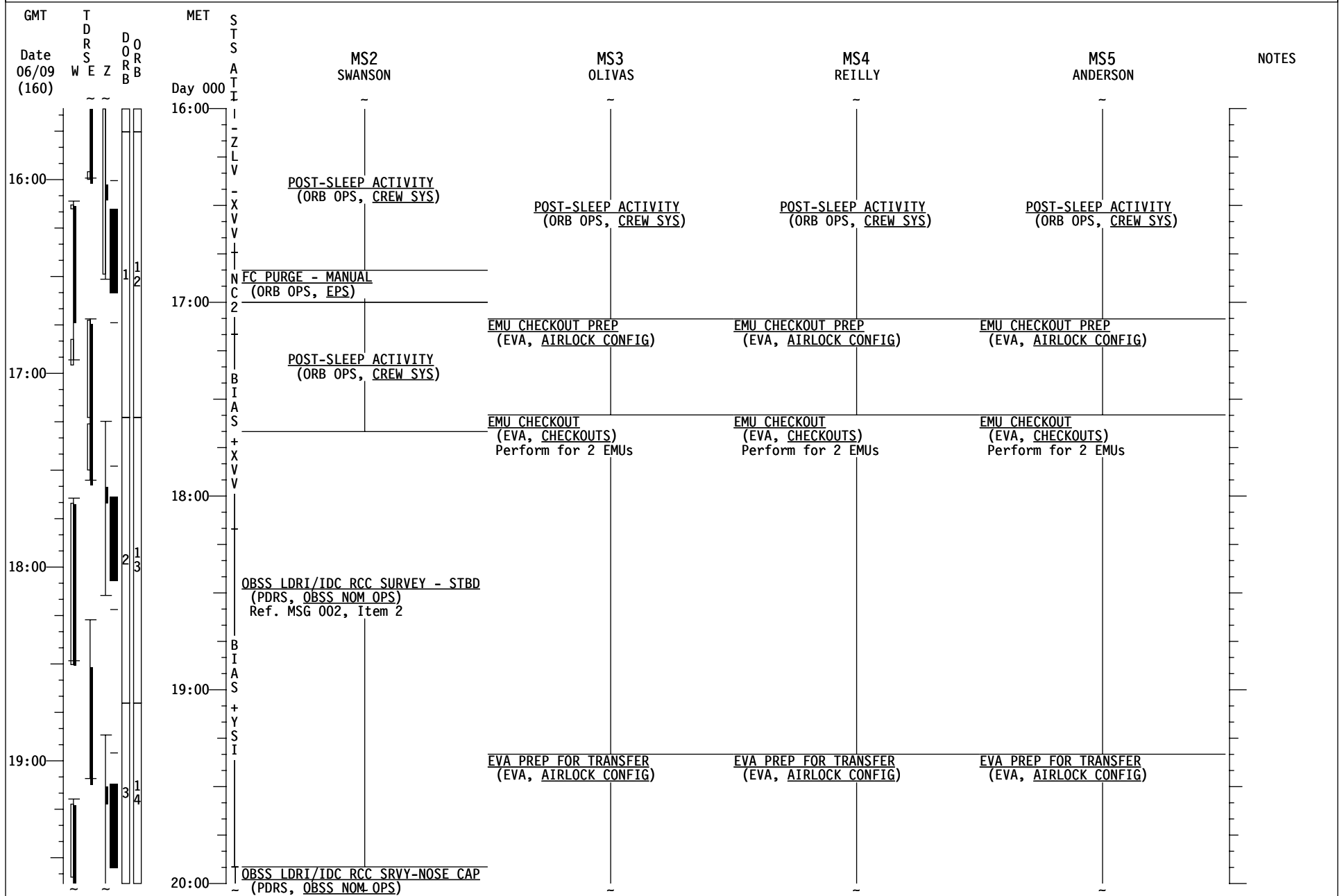
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GMT	T D R S E Z	D O R B	MET	S T S	CDR	PLT	MS1	NOTES
Date 06/09 (160)	W	1	Day 000	A T I	STURCKOW	ARCHAMBAULT	FORRESTER	
16:00				I			A8L PORT RMS HTR (two)-AUTO ACTIVATION (DNLK OPS - DTV) CC (P/TV)	
				Z	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
				L		I'CNCT: R OMS TO RCS (OPCL, RCS)		
16:00				V				
				V	G2 SET EXPANSION (ORB OPS, DPS) Dua1 G2: 1122	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
				N	ON-ORBIT OMS BURN (ORB OPS, OMS)	ON-ORBIT OMS BURN (ORB OPS, OMS)		UPDATE ORBITAL MNVR PAD
17:00				C	< NC2 TIG (17:03)			
				Z				
				I	MNVR (TRK) BIAS -ZLV +XV TG=2 BV=3 OM=160 A1/AUTO/VERN Init TRK		RMS PWRUP (PDRS, RMS PWRUP)	
17:00				B				
				I	G2 SET CONTRACTION (ORB OPS, DPS) Single G2: 1111	OBSS UNBERTH (PDRS, OBSS NOM OPS)	OBSS UNBERTH (PDRS, OBSS NOM OPS)	UPLINK β21 only Box A2
				A	+ RCS/OMS HEATER RCNFG [A]			
				S	X IMU STAR OF OPPTY ALIGN (ORB OPS)			
				V	RCS JET REPRIORITIZATION Ref. MSG 002, Item 3			
18:00				V				
				I	MNVR (TRK) BIAS +YSI (STBD Survey) TG=4 BV=5 P=0 Y=45 OM=45 A14/AUTO/VERN On MCC Go, Init TRK			
18:00				B				
				I	CRYO 02 TK HTR SNSR CK (ORB OPS, EPS)	OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS NOM OPS) Ref. MSG 002, Item 2	OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS NOM OPS) Ref. MSG 002, Item 2	UPLINK β21 only Box A3
				A				
				S	FILTER CLEANING (IFM, SCHEDULED MAINTENANCE) Do not perform MCIU Filter Cleaning until SRMS Ops complete.			
19:00				+ Y S I				
19:00				I				
				I	MNVR (TRK) BIAS +XSI (Nose Cap Survey) TG=4 BV=5 P=330 Y=0 OM=155 A14/AUTO/VERN On MCC Go, Init TRK Hold on ALT DAP	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
20:00				-				

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

STS-117 (FD02)

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STS-117 (FD02)

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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 000	A T I	STURCKOW	ARCHAMBAULT	FORRESTER	
06/09 (160)								
20:00		3 4			MNVR (TRK) BIAS +YSI (Nose Cap Survey) TG=4 BV=5 P=330 Y=0 OM=155 A14/AUTO/VERN On MCC Go, Init TRK Hold on ALT DAP C5 DIRECT 02 vlv - OP	OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS NOM OPS)	OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS NOM OPS)	
21:00		4 5			On MCC GO: C5 DIRECT 02 vlv - CL			
21:00					MEAL	MEAL	MEAL	
22:00		5 6			MNVR (TRK) BIAS -YSI (Port Survey) TG=4 BV=5 P=0 Y=323 OM=335 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
23:00					R2 BLR CNTLR/HTR (three) - B			
23:00		6 7			MNVR (TRK) -ZSI (LDRI Downlink) TG=4 BV=5 P=90 Y=0 OM=0 A14/AUTO/VERN Init TRK SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Perform EQUIP PREP and WATER TRANSFER HOSE PURGE	OBSS BERTH (PDRS, OBSS NOM OPS)	OBSS BERTH (PDRS, OBSS NOM OPS)	
00:00						L17 Clean MCIU filter screen		UPLINK β21+Mask

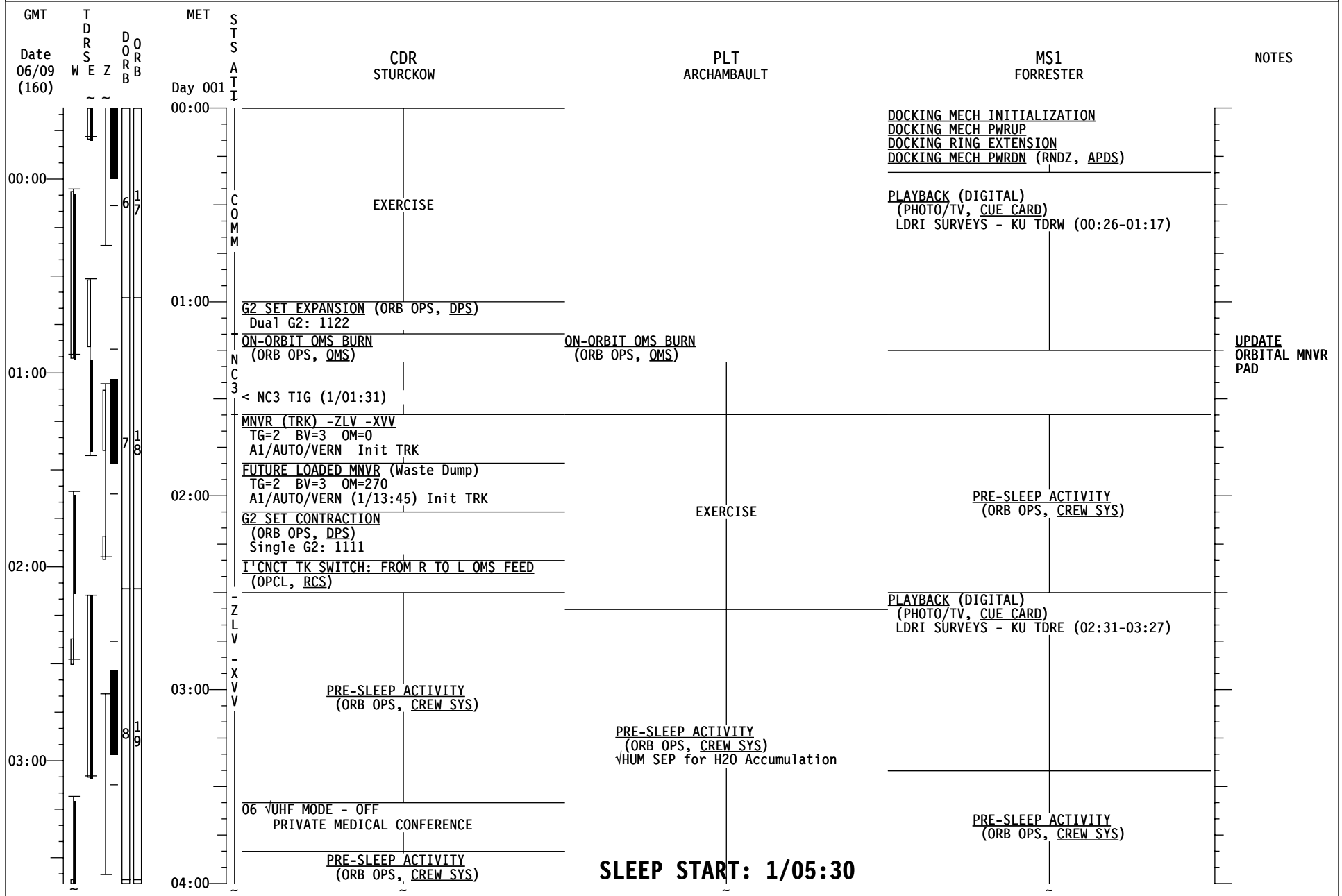
STS-117 (FD02)

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GMT	TDRS W E Z	DORB	MET	STS A T I	MS2 SWANSON	MS3 OLIVAS	MS4 REILLY	MS5 ANDERSON	NOTES
Date 06/09 (160)			Day 000						
20:00		3 4			OBSS LDRI/IDC RCC SRVY-NOSE CAP (PDRS, OBSS NOM OPS)	EVA PREP FOR TRANSFER (EVA, AIRLOCK CONFIG)	EVA PREP FOR TRANSFER (EVA, AIRLOCK CONFIG)	EVA PREP FOR TRANSFER (EVA, AIRLOCK CONFIG)	
21:00		4 5		B I A S + X S I	MEAL	MEAL	MEAL	MEAL	
22:00		5 6			OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS NOM OPS)	P/TV01 VIDEO SETUP (PHOTO/TV, SCENES)	P/TV01 VIDEO SETUP (PHOTO/TV, SCENES)		
23:00		6 7		B I A S - Y S I C O M M			CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) Perform ERGOMETER SETUP		
00:00						C/L CAMR INSTALL (PHOTO/TV, C/L CAMR)	C/L CAMR INSTALL (PHOTO/TV, C/L CAMR)		

STS-117 (FD02)

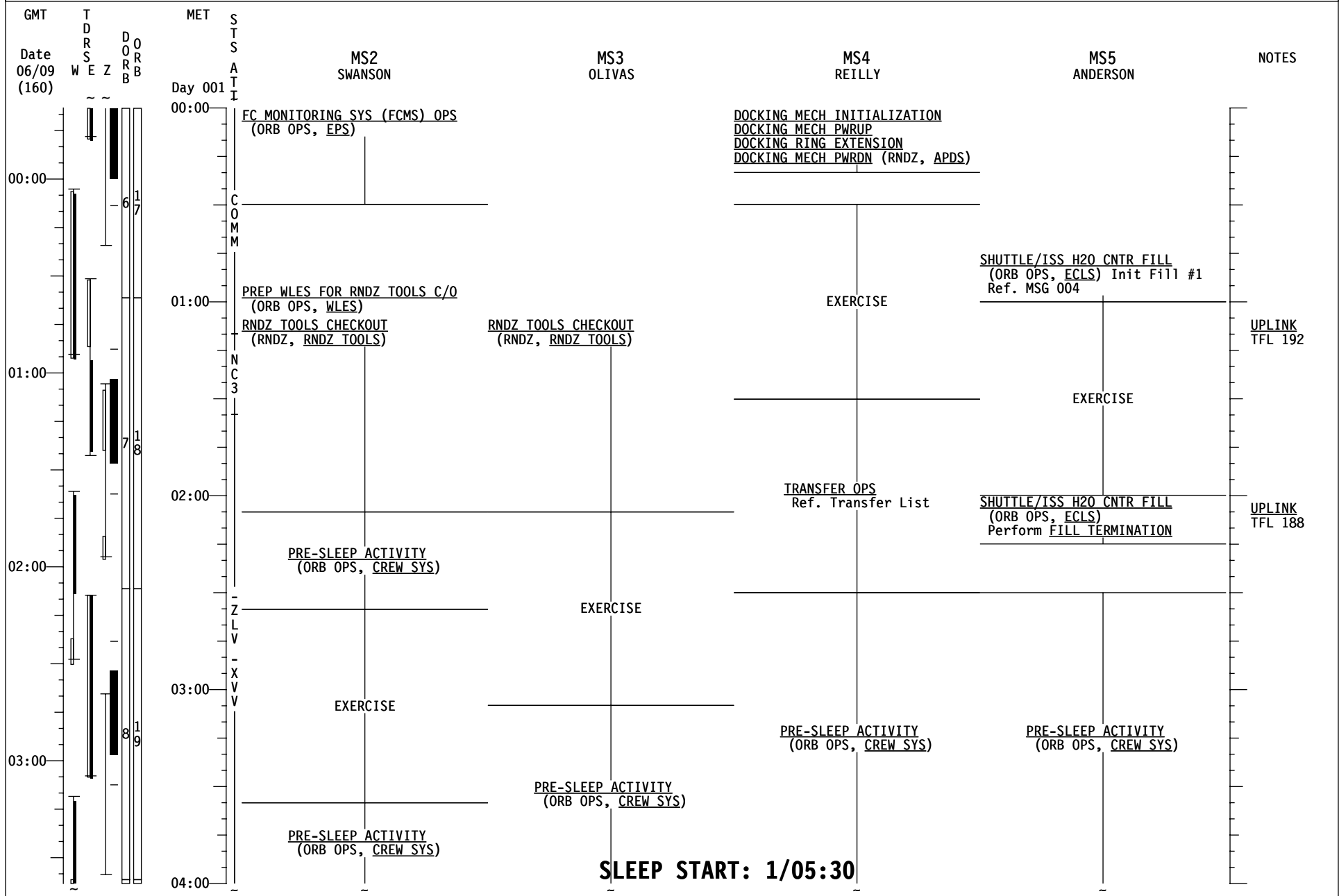
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SLEEP START: 1/05:30

STS-117 (FD02)

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MSG 003 (15-0371) - FD02 MISSION SUMMARY

Page 2 of 2

1

<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
DPS	At MET 000/00:03:31 FA3 MDM logged an A/D bite against card 14.	Bite circuitry checks channels 15 and 16. Review of the data showed that ch 16 (R Main Engine LH2 Inlet Press parameter) went off scale high at the time of the bite.	None. FA3 card 14 Ch 16 parameter is not used after ascent. All other parameters associated with card 14 appear nominal. We believe FA3 is healthy and are confirming this with our MER hardware experts.
EPS	During Payload Bay Door opening, the Forward Bulkhead Floodlight did not illuminate properly, which was verified by MCC data. This was also seen preflight.	This light will not be usable for the remainder of the mission.	ODS lights remain available and after S3/S4 truss is removed from the Payload Bay the other Payload Bay Floodlights will be available.

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MSG 004 - H2O ACTIVITIES CUE CARD

CWC FILLS

CWC No.	Additives	Sample? (Note A)	CWC Label	CWC Launch Location
1	Ag Biocide, Minerals	Sample	Blue	Middeck (Note B)
2	Ag Biocide, Minerals	Sample	Blue	Middeck (Note B)
3	Ag Biocide only	----	Green	NOD1P2 (Note C)
4	Ag Biocide only	Sample	Green	NOD1P2 (Note C)
5	Ag Biocide only	----	Green	NOD1P2 (Note C)
6	Ag Biocide, Minerals	Sample	Blue	Middeck (Note B)
7	Ag Biocide, Minerals	----	Blue	Middeck (Note B)
8	Ag Biocide, Minerals	----	Blue	NOD1P2 (Note D)
9	Ag Biocide, Minerals	Sample	Blue	NOD1P2 (Note D)
10	Ag Biocide only	----	Green	NOD1P2 (Note C)
11	Ag Biocide only	----	Green	NOD1P2 (Note C)
12	Ag Biocide only	----	Green	NOD1P2 (Note C)
13	Ag Biocide only	Sample	Green	NOD1P2 (Note C)

Green = Technical
Blue = Potable

Post-Fill:

- Insert label into CWC window
1 2 3 4 5 6 7 8 9 10 11 12 13
- Apply decal to CWC end
1 2 3 4 5 6 7 8 9 10 11 12 13
- Mark CWC S/N on end decal
1 2 3 4 5 6 7 8 9 10 11 12 13
- Report S/N to MCC
1 2 3 4 5 6 7 8 9 10 11 12 13
- Transfer CWC to NOD1P2
(If insufficient room at NOD1P2, transfer to NOD1P3 and report to MCC)
1 2 3 4 5 6 7 8 9 10 11 12 13

CWC Fill Notes:

- A. Stow filled sample bags in MF43K
- B. In Middeck STBD FLR 1 Bag C; Available S/Ns:
1004 1006 1008 1050
- C. In NOD1P2, M-02 Bag; Available S/Ns: 1029
1030 1064 1065 1066 1068 1069
- D. In NOD1P2, M-02 Bag; Available S/Ns: 1039 1079
- E. If residual H2O noticed in CWC prior to a fill, report to MCC

CONDENSATE CWC OPS

Activity	FD	Details
Setup	3	H/W in MF28H; S/N 5093
Changeout	7	1 of S/N 5057, 5082, or 5101 from ISS. Temp stow full CWC for dump FD7.
Teardown	10	Stow H/W in MDK FLR STBD 1 Bag C. Temp stow full CWC for dump FD11.

Kit	S/N	Launch Location	Undock Location	Notes
Ag Biocide Kit	1001	STBD FLR 1 BAG C	ISS NOD1D2	Use for CWC Fills #1-3, and transfer to ISS NOD1D2
Ag Biocide Kit	1003	ISS NOD1D2	STBD FLR 1 BAG C	Use for CWC Fills #4-13 and return to STBD FLR 1 BAG C
Mineralization Kit	1001	STBD FLR 1 BAG C	STBD FLR 1 BAG C	Use for all potable fills
Sample/Purge Kit	1004	STBD FLR 1 BAG C	STBD FLR 1 BAG C	Place 4 empty sample bags in ISS kit S/N 1001

PWR OPS

PWR S/N	Launch Location	Actions
1025	ISS A/L1D1_B2	After EMU Recharge on FD6, dump on FD7, refill on FD7; xfer to ISS A/L1D1_B2
1007	ISS A/L1D1_B1	Xfer to middeck for dump on FD7; refill on FD8; xfer to ISS A/L1D1_B1
1012	ISS A/L1D1_A2	"
1018	ISS A/L1D1_A2	"
2002	ISS A/L1D1_B2	Xfer to middeck for dump on FD7; refill on FD8; xfer to ISS A/L1D1_B2 (OGS)

PWRs Dumped
1007 1012 1018 1025 2002
PWRs Refilled
1007 1012 1018 1025 2002

Note

Do not detach PWR (EMU H2O Recharge Bag) QD restraint during PWR ops