STS-98 (FD 03) REPLANNED

TDRS E W | DORB 11 12 13 14 | ORB 37 38 39 40

MET Day 002 | STS ATI

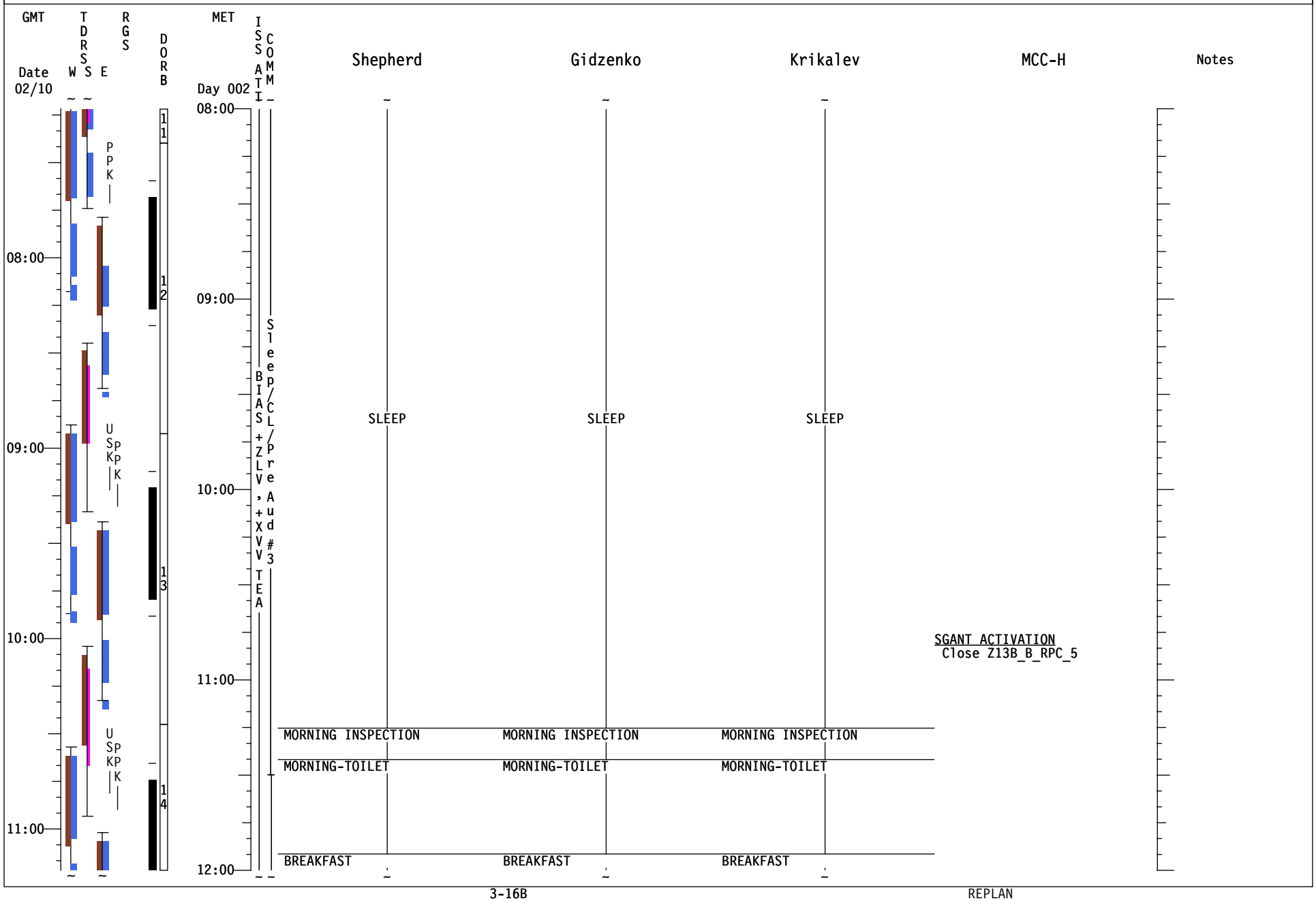
08:00 | 09:00 | 10:00 | 11:00 | 12:00

BIAS +ZLV, -XVV

CDR K. Cockrell	PLT M. Polansky	MS2 M. Ivins	MS3 T. Jones	MS1 R. Curbeam	MCC
SLEEP	SLEEP	SLEEP	SLEEP	SLEEP	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS) GALLEY MORNING CONFIG (ORB OPS, GIRA)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	CONFIG STS FOR A/G 1				
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	ILLUMINATOR OPS (CUE CARD, ILLUM OPS) ILLUMINATOR ON FOR CCTV B & C A7U √TV Power Control-Cmd			

REPLAN

STS-98 (FD 03) REPLANNED



REPLAN

STS-98 (FD 04) REPLANNED

TDRS E W | DORB 140 | DORB 141 | DORB 142

MET Day 002

STS ATI BIAS +ZLV, -XVV

CDR K. Cockrell	PLT M. Polansky	MS2 M. Ivins	EV1 T. Jones	EV2 R. Curbeam	MCC
12:00					
MNVR (TRK) +ZLV, +XVV TG=2 BV=5 P=277 Y=0 OM=90 A/AUTO/VERN Init TRK	G2 SET EXPANSION (ORB OPS, DPS) Dual G2 (1221)				
FUTURE LOAD MNVR TG=2 BV=5 P=277 Y=0 OM=0 A/AUTO/VERN Init TRK (12:05)					
06 √UHF MODE - OFF PRIVATE MEDICAL CONFERENCE		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
MANUAL REBOOST (ORB OPS, REBOOST)					
		A8L PORT RMS HTR (two)-AUTO L17 Check MCIU filter screen			
13:00					
MNVR (TRK) +ZLV, -XVV TG=2 BV=5 P=280 Y=0 OM=180 A/AUTO/VERN Init TRK			EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	
G2 SET CONTRACTION (ORB OPS, DPS) Single G2	EVA PREP (EVA, EVA PREP)				
SUPPLY H2O DUMP USING FES (ORB OPS, ECLS) Step 1 using Pri B		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
		P/TV23 SETUP EVA (PHOTO/TV, SCENES) SSP2 FWD KEEL SVS PWR -ON			
10.2 PSI MAINTENANCE (EVA, 10.2 PSI CABIN)					
EVA1 INHIBIT PADS (EVA, EVA DAY 1)					
14:00					
OSVS POWERUP (PDRS OPS, OSVS OPS)		N1 & LAB FWD CBCS CNFG (ASSY OPS, ASSY)			
		RMS POWERUP (PDRS OPS, RMS PWRUP)			
N1 FWD CBM DEMATE	EMU PURGE/PREBREATHE (EVA, EVA PREP)	PMA2 GRAPPLE ON NODE 1	EMU PURGE/PREBREATHE (EVA, EVA PREP)	EMU PURGE/PREBREATHE (EVA, EVA PREP)	
15:00					

FD04 EZ ACTIVITIES:

TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
OCAC FILTER INSPECT
PGSC REBOOT

CDR & MS2 Transition to EVA 1 INTEGRATED C/L at MET 2/14:30 (p 4-2)

STS-98 (FD 04) REPLANNED

GMT Date 02/10 | TDRS E W | RGS S | DORB | MET Day 002 | ISS ATI | COMM

EVA | CDR K.Cockrell | ISS B.Shepherd | MCC | Notes

12:00

13:00

14:00

15:00

DORB 14 15 16

BIAS +ZLV, +XVV TEA

EVA1 Pre Aud #4

EVA

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA PREP
(EVA, EVA PREP)

EMU PURGE/PREBREATHE
(EVA, EVA PREP)

CDR K.Cockrell

MNVR (TRK) +ZLV, +XVV
TG=2 BV=5 P=277 Y=0 OM=90
A/AUTO/VERN Init TRK
FUTURE LOAD MNVR
TG=2 BV=5 P=277 Y=0 OM=0
A/AUTO/VERN Init TRK (12:05)
06 √UHF MODE - OFF
PRIVATE MEDICAL CONFERENCE

MANUAL REBOOST
(ORB OPS, REBOOST)

MNVR (TRK) +ZLV, -XVV
TG=2 BV=5 P=280 Y=0 OM=180
A/AUTO/VERN Init TRK

G2 SET CONTRACTION
(ORB OPS, DPS)
Single G2

SUPPLY H2O DUMP USING FES
(ORB OPS, ECLS)
Step 1 using Pri B

10.2 PSI MAINTENANCE
(EVA, 10.2 PSI CABIN)

EVA1 INHIBIT PADS
(EVA, EVA DAY 1)

OSVS POWERUP
(PDRS OPS, OSVS OPS)

N1 FWD CBM DEMATE

ISS B.Shepherd

BREAKFAST

PREP-WORK

DPC-MORNING

PMA 2 LK CHECK

ECS-POST LAB-RCNFG

LAB-INGR EQUIP-S/U

MCC

EVA1 INHIBIT PADS
(EVA, EVA DAY 1)

STS-98 (FD 04) REPLANNED

TDRS E W | DORB | ORB

MET Day 002

STS ATI: FREE BIAS +ZLV, -XVV; FREE/MAIN

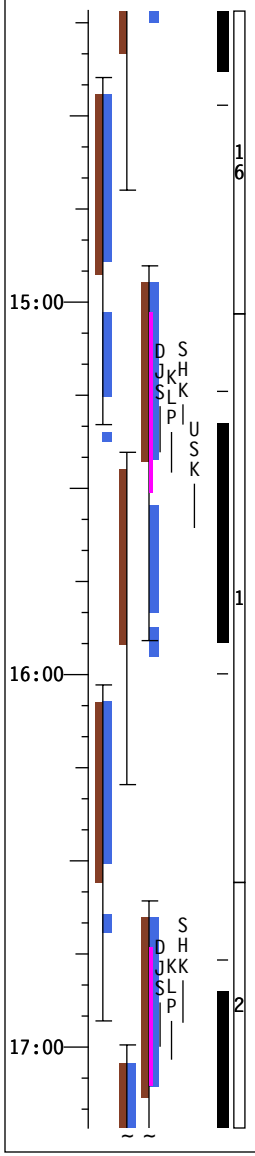
MET	CDR K. Cockrell	PLT M. Polansky	MS2 M. Ivins	EV1 T. Jones	EV2 R. Curbeam	MCC
15:00	N1 FWD CBM DEMATE	EMU PURGE/PREBREATHE (EVA, EVA PREP)	PMA2 DEMATE FROM NODE 1	EMU PURGE/PREBREATHE (EVA, EVA PREP)	EMU PURGE/PREBREATHE (EVA, EVA PREP)	
	SSP1 APCU 1 CONV - OFF(tb-bp) wait 1 minute APCU 1 CONV - ON(tb-gray)		PMA2 INSTALL TO Z1			
	Just Prior to Airlock Depress, temp edit A12/B12 deadbands: GNC 20 DAP CONFIG ITEM 18 + 0.10 EXEC (A12 ALT Rate DB) ITEM 24 + 5.00 EXEC (A12 Vern Att DB) ITEM 25 + 0.20 EXEC (A12 Vern Rate DB) ITEM 38 + 0.10 EXEC (B12 ALT Rate DB)	EVA SUPPORT		AIRLOCK DEPRESS (CUE CARD, DEPRES/REPRS)	AIRLOCK DEPRESS (CUE CARD, DEPRES/REPRS)	UPLINK β 0 deg only, & AZ/EL Boxes; (No AZ/EL box changes)
16:00	OSVS WT CAM C(B) FOR PMA2 INSTALL TO Z1			POST DEPRESS/EGRESS (EVA, EVA DAY 1)	POST DEPRESS/EGRESS (EVA, EVA DAY 1)	
	APCU DEACTIVATION		PMA2 INSTALL TO Z1			
	OSVS PMA2/Z1 CAM C(B)			EVA 1 SORTIE SETUP	EVA 1 SORTIE SETUP	
	EVA 1 PET 00:00 at 2/16:05			SECURE PMA2 TO Z1	DISCONNECT/STOW LTA HEATER UMBILICAL	
			PMA2 INSTALL TO Z1			
17:00					REMOVE PCBM CONTAMINATION COVER	
			PMA 2 UNGRAPPLE ON Z1	RELEASE P6 EETCS STBD RADIATOR CINCHES		
			LAB GRAPPLE			
	SUPPLY H2O DUMP USING FES (ORB OPS, ECLS) Step 2. FES PRI B req'd.		LAB UNBERTH			
18:00					REMOVE KU-BAND SGANT GIMBAL LOCKS	

REPLAN

(B)
If LOS during Ster

STS-98 (FD 04) REPLANNED

GMT Date 02/10 | TDRS E W S | RGS | DORB | MET Day 002 | ISS ATV | COMM



MET	ISS ATV	COMM	EVA	CDR (K.Cockrell)	ISS (B.Shepherd)	MCC	Notes
15:00	FREE / BIAS + ZLV, + XVV	EVA 1 Pre Aud #4	EMU PURGE/PREBREATHE (EVA, EVA PREP)	N1 FWD CBM DEMATE	LAB-INGR EQUIP-S/U		
				SSP1 APCU 1 CONV - OFF(tb-bp) wait 1 minute APCU 1 CONV - ON(tb-gray)		P6 BGA DIRECT POSN MODE (EPS, NOMINAL)	
				Just Prior to Airlock Depress, temp edit A12/B12 deadbands: GNC 20 DAP CONFIG ITEM 18 + 0.10 EXEC (A12 ALT Rate DB) ITEM 24 + 5.00 EXEC (A12 Vern Att DB) ITEM 25 + 0.20 EXEC (A12 Vern Rate DB) ITEM 38 + 0.10 EXEC (B12 ALT Rate DB)			
			AIRLOCK DEPRESS (CUE CARD, DEPRES/REPRS)				
16:00			POST DEPRESS/EGRESS (EVA, EVA DAY 1)	OSVS WT CAM C(B) FOR PMA2 INSTALL TO Z1			
				APCU DEACTIVATION			
			EVA 1 SORTIE SETUP	OSVS PMA2/Z1 CAM C(B)	FPP-DEACT		
			DISCONNECT/STOW LTA HEATER UMBILICAL				
					N1/LAB VEST-PRESS		
17:00			REMOVE PCBM CONTAMINATION COVER				
				SUPPLY H2O DUMP USING FES (ORB OPS, ECLS) Step 2. FES PRI B req'd.	IWIS-ACT		
18:00			REMOVE KU-BAND SGANT GIMBAL LOCKS				

REPLAN

(B)
If LOS during Step 12

STS-98 (FD 04) REPLANNED

TDRS E W | DORB | ORB

MET Day 002

STS ATI: FREE/MAINT; BIAS +ZLV, -XVV

MET	CDR K. Cockrell	PLT M. Polansky	MS2 M. Ivins	EV1 T. Jones	EV2 R. Curbeam	MCC
18:00		EVA SUPPORT	LAB UNBERTH LAB INSTALL	REMOVE KU-BAND SGANT GIMBAL LOCKS	REMOVE KU-BAND SGANT GIMBAL LOCKS	
					EZ/SET-UP TASKS	
	N1 FWD CBM VERF PREMATE STATUS		LAB INSTALL	EZ/SET-UP TASKS		
19:00			LAB INSTALL			
	CDR & MS2 Return to Flight Plan at MET 2/19:45					
	N1 FWD CBM 1st STAGE CAPTURE		LAB INSTALL			
	N1 FWD CBM 2nd STAGE CAPTURE		LAB INSTALL			
	N1 FWD CBM ACQUIRE NUTS					
	N1 FWD BOLT LOADING (ASSY OPS, ASSEMBLY) Steps 1-9		OSVS PWRDN (PDRS OPS, OSVS)	CONNECT LAB TO N1 LTA HEATER UMB P612	CONNECT Z1 TO FLUID QDS	
		EETCS ACCUM QTY CK (ASSY OPS, ASSEMBLY) Steps 1 & 2. (Loop A) MCC performs if AOS. Ref Msg 027	P/TV09 CBCS DEACT (PHOTO/TV, SCENES)			
20:00			LAB UNGRAPPLE			
		EETCS ACCUM QTY CK (ASSY OPS, ASSEMBLY) Steps 3 & 4. (Loop B) MCC performs if AOS. Ref Msg 027	N1 FWD BOLT LOADING (ASSY OPS, ASSEMBLY)			
		EVA SUPPORT		INSTALL Z1/LAB STBD UTIL CONNECTORS & CIDS PART 1	INSTALL Z1/LAB PORT UTIL CONNECTORS & CIDS PART I	
21:00						

STS-98 (FD 04) REPLANNED

GMT Date 02/10 | TDRS E W S | RGS | DORB | MET Day 002 | ISSATI | COMM

EVA | CDR K.Cockrell | ISS B.Shepherd | MCC | Notes

18:00
19:00
20:00
21:00

FREE/MAINT
EVA 1 Pre Aud #4
BIAS+ZLV,+XVTEA

REMOVE KU-BAND SGANT GIMBAL LOCKS

EZ/SET-UP TASKS

N1 FWD CBM VERF PREMATE STATUS

CONNECT Z1 TO FLUID QDS [B] (EV1 Connects P612)

N1 FWD CBM 1st STAGE CAPTURE
N1 FWD CBM 2nd STAGE CAPTURE
N1 FWD CBM ACQUIRE NUTS

N1 FWD BOLT LOADING (ASSY OPS, ASSEMBLY) Steps 1-9

When P612 connected, [D]

INSTALL Z1/LAB PORT UTIL CONNECTORS & CIDS PART I (EV1 Connects STBD)

After N1 FWD BOLT LOADING, N1/LAB VEST-PRESS

EXERCISE TVIS

LUNCH

IWIS-DEACT

EETCS LOOP A(B) PFCS SHUTDOWN [A] (TCS, EETCS) Steps 3-4 (Loops A & B)

VERIFY RPCs OPEN (LTA HTR A) √N1-RS1-B RPCs 1,2,15,16-OP

EETCS ACCUM QTY CK (ASSY OPS, ASSEMBLY) Steps 1-2 Ref Msg 027

RMV PWR FROM N1-1 MDM SDO [C] (ASSY OPS, ASSEMBLY)

EETCS ACCUM QTY CK (ASSY OPS, ASSEMBLY) Steps 3-4 Ref Msg 027

LAB LTA HTR C/O - GROUND [E] (GND H/B, ACT & C/O)

[A] Desire to perform as early as possible before CONNECT Z1 TO FLUID QDs, but without exceeding 2.5 hr NH3 cooldown limit by end of that task. Also desire to wait until after LAB UNBERTH.

[B] Verify EETCS LOOP A(B) PFCS SHUTDOWN has been completed before EV2 disconnects fluid QDs. Verify RPCs open prior to EV1 connecting P612 for LTA Heater A.

[C] Open SDO RPCs prior to EV2 connecting the port umbilicals. Close when complete to press with LTL IFHX ACT & C/O.

[D] Perform Steps 1-17, then after N1 FWD BOLT LOADING, perform steps 18-36. A 30 min gross leak check follows. Steps 37-43 occur after VESTIBULE OUTFIT.

[E] Perform after EV1 completes P612 connection.

STS-98 (FD 04) REPLANNED

TDRS E W | DORB | ORB

MET Day 002

STS ATI

MET	CDR K. Cockrell	PLT M. Polansky	MS2 M. Ivins	EV1 T. Jones	EV2 R. Curbeam	MCC
21:00	SAFETY INHIBIT FOR CID INSTALLATION (ASSY OPS, ASSEMBLY) Open RBI-6 on 2B & 4B. Powers down N1-2.	EVA SUPPORT		INSTALL Z1/LAB STBD UTIL CONNECTORS & CIDS PART 1	INSTALL Z1/LAB PORT UTIL CONNECTORS & CIDS PART I	
				INSTALL Z1/LAB STBD UTLTY CONNECTORS & CIDS PART II (2B Inhibit)	INSTALL Z1/LAB PORT UTLTY CONNECTORS & CIDS PART II (4B Inhibit)	
22:00	CLOSE RBI-6 ON PWR CH 2B (ASSY OPS, ASSEMBLY) N1-2 to Primary	**PLT, MS1 & MS3 return to Flight Plan at MET 2/22:45 (after A/L repress)**		EVA 1 SORTIE CLEANUP	EVA 1 SORTIE CLEANUP	
	CLOSE RBI-6 ON PWR CH 4B (ASSY OPS, ASSEMBLY)		RMS POWERDOWN (PDRS OPS, RMS PWRDN) Do not Stow MPMs	INGRESS/PRE REPRESS	INGRESS/PRE REPRESS	UPLINK β 21 deg only, & AZ/EL boxes (No AZ/EL box changes)
	After Airlock Repress, permanently edit DAP A12/B12: A		P/TV23 EVA DEACT (PHOTO/TV 23, SCENES)	AIRLOCK REPRESS (CUE CARD, DEPRS/REPRS)	AIRLOCK REPRESS (CUE CARD, DEPRS/REPRS)	
	CABIN REPRESS TO 14.7 PSI (EVA, 10.2 PSI CABIN) Perform Steps 1 & 2 only	POST EVA (EVA, POST EVA)	CABIN REPRESS TO 14.7 PSI (EVA, 10.2 PSI CABIN) Perform Steps 1 & 2 only	POST EVA (EVA, POST EVA)	POST EVA (EVA, POST EVA)	
23:00	GENERIC REPRESS (JNT OPS, MATED OPS) In Step 6, perform the "If not Required" step		GENERIC REPRESS (JNT OPS, MATED OPS) In Step 6, perform the "If not Required" step			
	HATCH OPEN & DUCT INSTL (JNT OPS, INGRESS) Ref Msg 033 Item 1		HATCH OPEN & DUCT INSTL (JNT OPS, INGRESS) Ref Msg 033 Item 1			
	LAB ACT: CRITICAL SYSTEMS (ASSY OPS, ACT & C/O)		VHF POWER OFF LAB ACT: CRITICAL SYSTEMS (ASSY OPS, ACT & C/O)			SHIP-TO-SHIP VHF replaced with hardline BPSMU
00:00						

BIAS + ZLV, -XVV

4 46 5 47 6 48

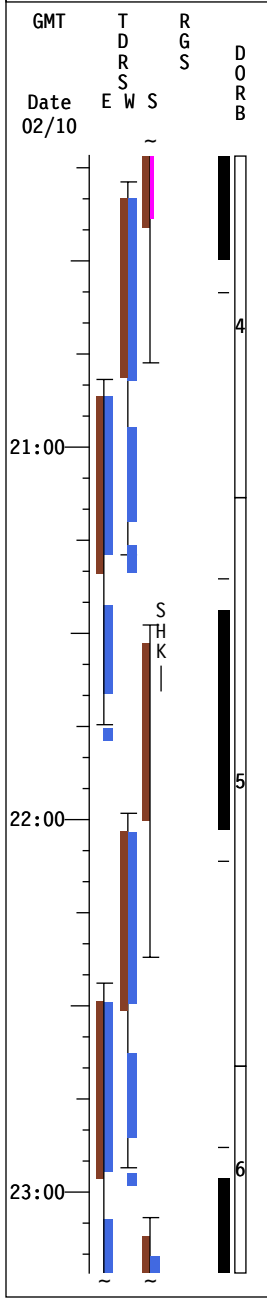
A

GNC 20 DAP CONFIG
ITEM 3 + 12 EXEC
ITEM 62 + 12.00 EXEC (A12 ALT delay time)
If VRCS: ITEM 68 + 6 EXEC (A12 Cntl Accel- VRCS)
If ALT: ITEM 68 + 7 EXEC (A12 Cntl Accel- ALT)
ITEM 5 EXEC

ITEM 4 + 12 EXEC
ITEM 62 + 12.00 EXEC (B12 ALT delay time)
If VRCS:ITEM 68 + 6 EXEC (B12 Cntl Accel- VRCS)
If ALT:ITEM 68 + 7 EXEC (B12 Cntrl Accel-ALT)
ITEM 5 EXEC

Re-select A12/B12:
ITEM 1 + 12 EXEC
ITEM 2 + 12 EXEC

STS-98 (FD 04) REPLANNED



MET Day 002

ISS ATI: BIAS + ZLV, + XVV TEA

COMM: EVA 1 Prep Aud #4

EVA

- INSTALL Z1/LAB PORT UTIL CONNECTORS & CIDS PART I
- INSTALL Z1/LAB PORT UTLTY [I] CONNECTORS & CIDS PART II (4B Inhibit) (EV1 Connects STBD)
- EVA 1 SORTIE CLEANUP
- INGRESS/PRE REPRESS
- AIRLOCK REPRESS (CUE CARD, DEPRS/REPRS)
- POST EVA (EVA, POST EVA)

CDR (K.Cockrell)

- SAFETY INHIBIT FOR [G] CID INSTALLATION (ASSY OPS, ASSEMBLY) Open RBI-6 on 2B & 4B. Powers down N1-2.
- CLOSE RBI-6 ON PWR CH 2B [J] (ASSY OPS, ASSEMBLY) N1-2 to Primary
- CLOSE RBI-6 ON PWR CH 4B [L] (ASSY OPS, ASSEMBLY)
- After Airlock Repress, permanently edit DAP A12/B12: [A] N1/LAB VEST-OUTFIT-1
- CABIN REPRESS TO 14.7 PSI (EVA, 10.2 PSI CABIN) Perform Steps 1 & 2 only
- GENERIC REPRESS (JNT OPS, MATED OPS) In Step 6, perform the "If not Required" step
- HATCH OPEN & DUCT INSTL (JNT OPS, INGRESS) Ref Msg 033 Item 1
- LAB ACT: CRITICAL SYSTEMS (ASSY OPS, ACT & C/O)

ISS (B.Shepherd)

- N1/LAB VEST-PRESS
- ACS-PPRV OVRIDE-MODE (ISS PLT & FE perform VESTIBULE OUTFIT 1)
- STS/ISS-HATCH-OPEN
- LAB-CRITICAL SYS-ACT

MCC

- PWR N1-1 MDM SDO CHANNEL [F] (ASSY OPS, ASSY)
- LAB IFHX ACT & C/O [H] (ASSY OPS, ACT & C/O) Low Temp Loop A
- EETCS LOOP RESTART (ASSY OPS, ACT & C/O) Steps 2-12 Loop A
- LAB IFHX ACT & C/O [K] (ASSY OPS, ACT & C/O) Mod Temp Loop B
- P6 BGA DIRECT POSN MODE (EPS, NOMINAL)
- EETCS LOOP RESTART (ASSY OPS, ACT & C/O) Steps 2-12 Loop B
- LAB ACT: CRITICAL SYSTEMS (ASSY OPS, ACT & C/O)

Notes

[F] Open SDO RPCs prior to EV2 connecting the port umbilicals. Close when complete to press with LTL IFHX ACT & C/O.

[G] Must wait until completion of N1 FWD BOLT LOADING. Lose N1 lights & Cabin Fan. Perform prior to CID connections.

[H] Begin after EV2 connects port umbilicals Part I & N1-1 SDO RPCs are closed.

[I] Verify RBI-6 open on 2B & 4B for stbd & port CIDs, respectively.

[J] Nominally performed by CDR after EV1 installs stbd CIDs

[K] Must wait until after CLOSE RBI-6 ON 2B is completed.

[L] Nominally performed by CDR after EV2 installs port CIDs.

STS-98 (FD04) REPLANNED

TDRS E W | DORB | ORB | MET Day 003 | STS ATI

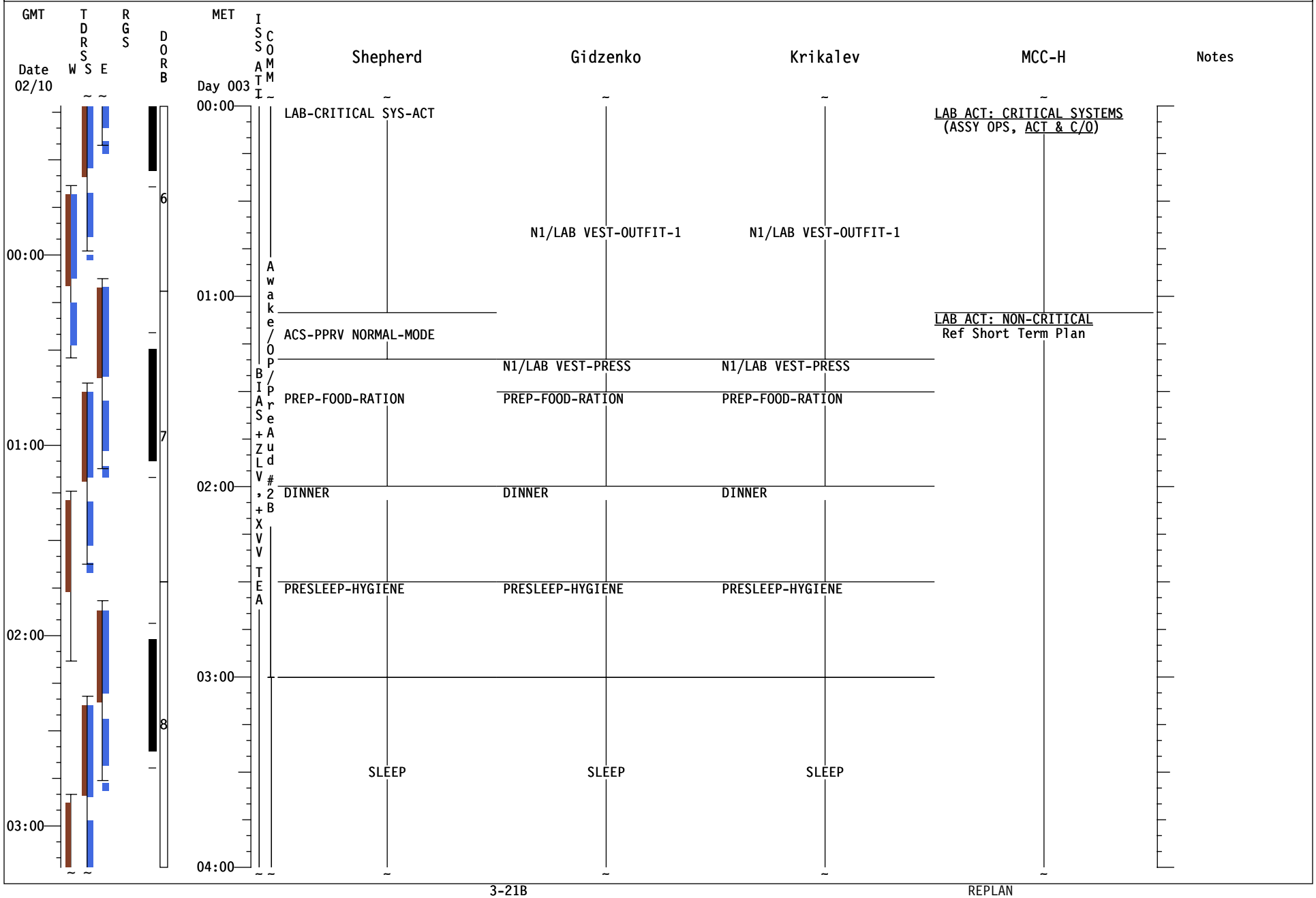
BIAS +ZLV, -XVV

MET	CDR K. Cockrell	PLT M. Polansky	MS2 M. Ivins	MS3 T. Jones	MS1 R. Curbeam	MCC
00:00	LAB ACT: CRITICAL SYSTEMS (ASSY OPS, ACT & C/O)	POST EVA (EVA, POST EVA) BATT RECHARGE INIT (EVA, EMU MAINT/RECHARGE) In-Suit EMU, Helmet Light/PGT & REBA EMU LIOH CHANGEOUT (EVA, EMU MAINT/RECHARGE) Ref Msg 033 Item 4	LAB ACT: CRITICAL SYSTEMS (ASSY OPS, ACT & C/O)	POST EVA (EVA, POST EVA) BATT RECHARGE INIT (EVA, EMU MAINT/RECHARGE) In-Suit EMU, Helmet Light/PGT & REBA EMU LIOH CHANGEOUT (EVA, EMU MAINT/RECHARGE) Ref Msg 033 Item 4	POST EVA (EVA, POST EVA) BATT RECHARGE INIT (EVA, EMU MAINT/RECHARGE) In-Suit EMU, Helmet Light/PGT & REBA EMU LIOH CHANGEOUT (EVA, EMU MAINT/RECHARGE) Ref Msg 033 Item 4	UPLINK COMM CONFIG 780
01:00						
02:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) VIDEO CONFERENCING (ORB OPS, PGSC) Private Med Conf	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS) GALLEY OVERNIGHT CONFIG (ORB OPS, GIRA)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	OCA-PMC
03:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) OVERNIGHT CONFIG A	VHF POWER ON CONFIG STS FOR A/G 2 CONFIG BPSMUs FOR OVERNIGHT				
04:00	SLEEP	SLEEP	SLEEP	SLEEP	SLEEP	

A OVERNIGHT CONFIG
- ☐ COLOR PRINTER - ON
- ☐ PAPER IN COLOR PRINTER
- ☐ FLOPPY DISK IN PROSHARE
- ☐ OCA ROUTER - ON
- ☐ PROSHARE - ON
- ☐ KFX LAUNCHED

CHECK APPLICATIONS CLOSED
- ☐ OUTLOOK
- ☐ PHOTOLOG
- ☐ PASSWIZARD

STS-98 (FD 04)



REPLAN

EVA 1 INTEGRATED PROCEDURE CHECKLIST REPLANNED

PET Rel | TDRS E W S | ORB | MET Day 002 | ISS ATTI | FREE

-01:30 EVA1

-01:15

-01:00

-00:45

-00:30

-00:15

00:00

00:15

42

43

14:30 A12(B12) AUTO/VERN

14:45

15:00

15:15

15:30

15:45

16:00

16:15

16:30

FREE FREE

BIAS +ZLV, +XVV

ORBITER

14:45 DAP: FREE (Step 7 of Demate)

SSP1 APCU 1 CONV - OFF(tb-bp)
wait 1 minute
APCU 1 CONV - ON(tb-gray)

DAP: A12/LVLH/VERN
When rates damped, AUTO

Just Prior to Airlock Depress,
temp edit A12/B12 deadbands:
GNC 20 DAP CONFIG
ITEM 18 + 0.10 EXEC (A12 ALT Rate DB)
ITEM 24 + 5.00 EXEC (A12 Vern Att DB)
ITEM 25 + 0.20 EXEC (A12 Vern Rate DB)
ITEM 38 + 0.10 EXEC (B12 ALT Rate DB)

APCU DEACTIVATION C
(ASSY OPS, APCU)
Deact both APCUs

CBM (ASSY OPS, ASSEMBLY)

N1 FWD CBM DEMATE
Do not perform Step 7 until PMA 2 grapple complete.

PDRS

PMA2 GRAPPLE ON NODE 1
(PDRS OPS, PMA2: N1 TO Z1)

Begin Step 7 A

When Step 9 complete,
PMA2 DEMATE FROM NODE 1
(PDRS OPS, PMA2: N1 TO Z1)

PMA2 INSTALL TO Z1
(PDRS OPS, PMA2: N1 TO Z1)
Step 1: Mnvr to OSVS Acquire Tgts

PMA2 INSTALL TO Z1
(PDRS OPS, PMA2: N1 TO Z1)
Step 2: Mnvr to Pre-Install

Step 3:

OSVS, P/TV & MCC

When Brakes ON,
OSVS WT CAM C(B) FOR PMA2 INSTL TO Z1
PDRS OPS, PMA2: N1 to Z1)

OSVS PMA2/Z1 CAM C(B)
(PDRS OPS, PMA2: N1 TO Z1)

EVA/INFO ONLY

EV 1

EMU PURGE/PREBREATHE

DEPRESS/POST DEPRESS B

A/L EGRESS

EVA 1 SORTIE SETUP

NOTES

****
The following should be completed before entering this C/L:

1. S-BD ORU DEACT
2. N1 FWD CBM PREP
3. Z1/LAB PRE EVA CNFG
4. POWER SGANT GIMBALS
5. Verify USOS PWR Consumption allows 1 orbit Free Drift

****

A
At Step 7, free drift thruster inhibit is required for removal of last 8 bolts (until 2 ft clearance) to prevent ACBM damage.

B
Depress A/L after PMA2 DEMATE, but before PMA2 Mnvr to Pre-Install position.

C
Verify APCU DEACT is complete prior to EV2 starting DISCONNECT/ STOW LTA HEATER UMBILICALS.
(PET 00:35)

EVA 1 INTEGRATED PROCEDURE CHECKLIST REPLANNED

PET Rel — TDRS E W S — ORB — MET — Day 002 — ISS ATT — FREE

00:30 EVA1 — 00:45 — 01:00 — 01:15 — 01:30 — 01:45 — 02:00 — 02:15

43 — 44

16:30 — 16:45 — 17:00 — 17:15 — 17:30 — 17:45 — 18:00 — 18:15 — 18:30

ORBITER

DAP: FREE (Step 4: Mnvr to RTL)

DAP: A12/LVLH/VERN
When rates damped, AUTO

SUPPLY H2O DUMP USING FES
(ORB OPS, ECLS)
Step 2 w/Pri B reqd

DAP: FREE
(Step 3: AKA Release)

(Step 6: Change Control Accel to 4)
√ MCC: If ATT MAINT, then
DAP: A12/LVLH/VERN, when rates damped, AUTO
DAP: FREE (Steps 1-2 Mnvr to Pitch-Around)

(Step 2: Change Control Accel to 3)
√ MCC: If ATT MAINT, then
DAP: A12/LVLH/VERN, when rates damped, AUTO
DAP: FREE (Step 3: Mnvr to SAM)

CBM (ASSY OPS, ASSEMBLY)

PDRS

PMA2 INSTALL TO Z1 [D]
(PDRS OPS, PMA2: N1 TO Z1)
Step 4: Mnvr to RTL

Step 5: MBM Capture

PMA 2 UNGRAPPLE ON Z1
(PDRS OPS, PMA2: N1 TO Z1)

LAB GRAPPLE
(PDRS OPS, NOM LAB OPS)

LAB UNBERTH [E]
(PDRS OPS, LAB NOM OPS)
Steps 1-5: AKA & PRLA Release

Step 6: Mnvr to Low Hover

LAB INSTALL
(PDRS OPS, LAB NOM OPS)
Steps 1-2: Mnvr to Pitch-Around

Step 3: Mnvr to SAM

Step 4: Mnvr to Pre-Install

OSVS, P/TV & MCC

EETCS LOOP A(B) PFCS SHUTDOWN [F]
(TCS, EETCS)
Steps 2-3 (Loops A & B)

EVA

EV 1

EVA 1 SORTIE SETUP

SECURE PMA2 TO Z1

REL P6 EETCS STBD
RAD CINCHES

(EV2) PCBM Cover
Removal Complete

REMOVE KU-BAND
SGANT GIMBAL LOCKS [G]

NOTES

[D] Verify that EV1 is in position for SECURE PMA2 to Z1, and that the MBM latches are open prior to Step 4. Must be Free Drift from Mnvr to RTL until all 4 MBM latches are closed.

[E] Verify that EV2 has removed PCBM covers and translated clear of the lab before releasing the PRLA's in Step 4. (EV2 is expected to be clear of lab about 10 min before completion of task at PET 01:40) Must be Free Drift from start of Step 3, AKA Release, until reach Low Hover.

[F] Desire to perform as early as possible before CONNECT Z1 TO FLUID QDs, but without exceeding 2.5 hr NH3 cooldown limit by end of that task. Also desire to wait until after LAB UNBERTH.

[G] Verify SGANT gimbals have been powered.

EVA 1 INTEGRATED PROCEDURE CHECKLIST REPLANNED

PET Rel | TDRS E W S | ORB | MET Day 002 | ISS ATT | FREE

02:30 EVA1 — 44
02:45
03:00
03:15
03:30 — 45
03:45
04:00
04:15 — 46

18:30
18:45
19:00
19:15
19:30
19:45
20:00
20:15
20:30

FREE / FREE / FREE / FREE / FREE / BIAS +ZLV, +XVV TEA

ORBITER

(Step 4: Change Control Accel to 5)
√ MCC: If ATT MAINT, then
DAP: A12/LVLH/VERN, when rates damped, AUTO

N1 FWD CBM VERIFY PREMATE STATUS [H]

√ DAP: FREE (Step 7: MNVR to RTL)

(Step 9: Change Cntrl Accel to 6)
DAP: A12/LVLH/VERN, When rates damped, AUTO

CBM (ASSY OPS, ASSEMBLY)

When Step 7 complete,
N1 FWD CBM FIRST STAGE CAPTURE [I]
N1 FWD CBM SECOND STAGE CAPTURE
N1 FWD CBM ACQUIRE NUTS

N1 FWD BOLT LOADING Steps 1-9

PDRS

LAB INSTALL (PDRS OPS, LAB NOM OPS) Steps 4: Mnvr to Pre-Install

LAB INSTALL Step 5: S/U for Instl
Step 6: OSVS AutoScript

LAB INSTALL (PDRS OPS, LAB NOM OPS) Step 7: Mnvr to RTL

LAB INSTALL Step 9: First Stage Capture (Mode to test)

LAB INSTALL (PDRS OPS, LAB NOM OPS) Step 9: Second Stage Capture (Brakes on)
Step 10: OSVS Cleanup

LAB UNGRAPPLE (PDRS OPS, NOM LAB OPS)

OSVS, P/TV & MCC

VERIFY RPCs OPEN (LTA HTR A)
√ N1-RS1-B RPCs 1,2,15,16-OP

OSVS PWRDN (PDRS OPS, OSVS OPS)

EVA — EV 1

REMOVE KU-BAND SGANT GIMBAL LOCKS [G]

EZ/SET-UP TASKS

CONNECT LAB TO N1 LTA HTR UMB [J]

NOTES

[H] Desire OSVS SETUP & N1 PREMATE STATUS complete prior to Step 6 of LAB INSTALL

[I] AOS is mandatory for Step 2 of FIRST STAGE CAPTURE, all of SECOND STAGE CAPTURE & CBM ACQUIRE NUTS. Must be free drift from initiation of capture until 8 bolts reach A bolt load.

THE PROPER SEQUENCE IS:

a) FIRST STAGE CAPTURE
b) MODE TO TEST
c) SECOND STAGE CAPTURE
d) BRAKES ON
e) CBM ACQUIRE NUTS

[J] Verify LTA Heater A string RPCs are Open and CBM ACQUIRE NUTS are both complete.

CDR & MS2 Return to Flight Plan at MET 2/19:45, page 3-20A.