MSG INDEX

MSG NO.	TITLE
MSG228	Red FD16 Flight Plan Revision
MSG229	Red FD16 Mission Summary
MSG230	Red FD16 Payload Summary
MSG231	Red FD16 MEIDEX Ops
MSG232	Red FD16 ATL
MSG233	Red FD16 Earth Obs Text
MSG234	LiOH Cue Card Update
MSG235	BDS-05 Cue Card Update
MSG236	Red FD16 to EOM Viewport Violations

1. Prior to Ku Stow, we will downlink your .pst files so you can have a copy of your e-mail messages when you return to Houston. In preparation for this, we would like for you to move all messages you want saved from your Outlook folders into your personal folders. The Blue Team can complete this operation anytime before sleep on Blue FD16. The Red Team should complete this prior to the final OCA downlink opportunity at MET 15/04:05.

2. Add the following new actions as Step 5a of CE WPP DEACTIVATION (RDM OPS, ON-ORBIT), pg 2-12 between existing steps 5 and 6.

   5a. Turn "CHX" valve CCW to full open position (~170, top valve)
   Turn "CEWL" valve CW to full closed position (~000, middle valve)
   Leave "X OVER" valve in current position (bottom valve)
   Notify MCC of final "CHX" and "CEWL" valve position indicator readings.

   Rationale: These valve adjustments will send all the water loop flow through the CHX to increase its effectiveness for module cooling.

3. REPLACE PAGES 2-60, 2-62, and 3-176, 3-178, 3-180, 3-182, 3-184.

BETA -12.68

01/31/03 00:27:49 **REPLANNED**

GMT 01/31/03 (031): 04 05 06 07 08 09 10 11 12 13 14 15

CT 01/30/03 (030): 22 23 01/31 01 02 03 04 05 06 07 08 09

MET Day 014: 12 13 14 15 16 17 18 19 20 21 22 23 015/00

RED FD16

RED	CDR HUSBAND	SLEEP; SAMPLSOAGL; POST SLEEP; PILOT; D/O BRIEF; FCS C/O; RCS HF; I-CNCT; EXERCISE; VPUOFF; WPP*; MNVR RANGE; SAFE; MNVR MEIDEX; SOPA; MNVR TDRS COMM; MNVR -ZSI
RED	MS2 CHAWLA	SLEEP; SAMPLSOAGL; POST SLEEP; PILOT; D/O BRIEF; FCS C/O; MNVR TRK; MNVR MEIDEX; MNVR SPRITE; P/TV 05 S/U; L-1 COMM*; EXERCISE; L-1 COMM*
RED	MS4 CLARK	SLEEP; SAMPLSOAGL; POST SLEEP; BDS MED SAMP & PCBA; TRAY; D/O BRIEF; FCS C/O; RCS HF; EXERCISE; CABIN STOW; ZCGPWR; CABIN STOW
RED	PS1 RAMON	SLEEP; SAMPLSOAGL; POST SLEEP; D/O BRIEF; CABIN STOW; MX PLAYBK; MEIDEX; S/U; MEIDEX OPS; MEIDEX SPRITE; MEIDEX OPS; MXXFR; MXPGSC; MXSTOW; EXER
MCC	KU3	BTB; MST; MST; BTB; MAIL; EXPK; FAST; BTB; SMU; OCA*; AST; SMU; BTB; PL BK; BTB; MX; MX; BTB; MX; SMU; STAR; BTB
	MAIL	B:D; R:U B:U
	DAY/NIGHT	
	ORBIT	233 234 235 236 237 238 239 240 241
	TDRS E W Z	
	ATTITUDE	-ZLV +YVV (C2P 3); BIAS +XLV +ZVV; TDRW; TRK; FCS C/O; TRK; -ZLV; -XLV; TRK; -ZLV; TDRW; -ZSI
	SAA	
	CVX	CVX TC PASS 5
	MIST	32; 33
	SOLCON	CAL
	SOLSE	
	LPT/MSTR	MSTRS; COMM; WLP; DFR; COMM
	MEIDEX	SPRT; A; SPRT; A
	STARNAV	
	NOTES	*ENTRY MESSAGE UPLINK; * WPP DEACT *MILA; *DFRS, MILA B/U

BETA -10.20

01/31/03 00:27:49 **REPLANNED**

GMT 01/31/03 (031): 16 17 18 19 20 21 22 23 02/01 01 02 03

CT 01/31/03 (031): 10 11 12 13 14 15 16 17 18 19 20 21

MET Day 015: 015/00 01 02 03 04 05 06 07 08 09 10 11 12

RED	CDR HUSBAND	FESDMP; MNVR +ZSI; MEAL; CABIN STOW; OUTLK; CABIN STOW; FESTERM; PRE SLEEP; PDIP; CABTMP; PRE SLEEP; HAND OVER; PMC A/G; SLEEP
RED	MS2 CHAWLA	L-1 COMM*; MEAL; GIRA NIGHT; CABIN STOW; ZCG STOW; CABIN STOW; GIRA MORN; PRE SLEEP; HAND OVER; PRE SLEEP; SLEEP
RED	MS4 CLARK	CABIN STOW; MEAL; CABIN STOW; BDS FLTR; BDS DEACT; MOD STATUS CK RED; FROZEN SALIVA; PHAB4 STOW; CIBX DEACT; DEACT*; PRE SLEEP; HAND OVER; PRE SLEEP; SLEEP
RED	PS1 RAMON	EXER; CABIN STOW; BFIX11; BRCPWR; MEAL; CABIN STOW; FROZEN SALIVA; PHAB4 STOW; MDDK CK; REDD; PRE SLEEP; HAND OVER; PRE SLEEP; SLEEP (7 HOURS)
MCC	KU3	STAR; BTB; SMU; FINAL MAIL; BTB; EXPK; SMU
	MAIL	R:D B:D
	DAY/NIGHT	
	ORBIT	241 242 243 244 245 246 247 248 249
	TDRS E W Z	
	ATTITUDE	-ZSI; +ZSI; BIAS -ZLV +YVV (EOM)
	SAA	
	CVX	
	MIST	
	SOLCON	SUN; CAL
	SOLSE	
	LPT/MSTR	COMM
	MEIDEX	
	STARNAV	
	NOTES	*DFRS, MILA B/U; *BIOTUBE

STS-107 (RED FD16)

GMT Date 01/31 (031) | T D R S W E | O R B | MET Day 014 | ATT

HUSBAND CDR | CHAWLA MS2 | CLARK MS4 | RAMON PS1 | MCC

12:00
13:00
14:00
15:00
16:00

04:00 05:00 06:00 07:00

ORB: 233 234 235

ATT: -ZLV +YVV (C2P3) BIAS +XLV +ZVV

SLEEP (HUSBAND, CHAWLA, CLARK, RAMON)

RED FD16 EZ ACTIVITIES:
Perform at earliest convenience:
OCAC FILTER INSPECTION
TEPC (Stat Ck) Step A6 (ORB OPS,CREW SYS)
Reboot PGSCs
>Set Router to High Data Rate (4M)

SLP LOG(HLS,SLP3 NOM PROC) — HUSBAND, CHAWLA, CLARK, RAMON
SALV COL(AMB)(HLS,PH4 NOMPRC) — HUSBAND, CHAWLA, CLARK, RAMON

POST SLEEP (HUSBAND, CHAWLA, CLARK, RAMON)

STS-107 (RED FD16)

GMT Date 01/31 (031) | TDRS W E | ORB | MET Day 014 | ATT

MET	HUSBAND CDR	CHAWLA MS2	CLARK MS4	RAMON PS1	MCC
16:00					
08:00	POST SLEEP	POST SLEEP	POST SLEEP	POST SLEEP	
17:00	PILOT WITH RHC (ORB OPS, PGSC)	PILOT WITH RHC (ORB OPS, PGSC)	MEDIA SAMPLE & PCBA ANALYSIS (BDS-05, NOM PROC) REF MSG 055,175 & 206		
09:00			MEDIA TRAY EXAMINE (BDS-05, NOM PROC)		
18:00	D/O BRIEF	D/O BRIEF	D/O BRIEF	D/O BRIEF	TFL 161
10:00	FCS CHECKOUT (ORB OPS, GNC) After G2 to G8 TRANSTN on pg A7-13, Add GPS PWRUP(ORB OPS,GNC)St 3	FCS CHECKOUT (ORB OPS, GNC) After G2 to G8 TRANSTN on pg A7-13, Add GPS PWRUP(ORB OPS,GNC)St 3	FCS CHECKOUT (ORB OPS, GNC) After G2 to G8 TRANSTN on pg A7-13, Add GPS PWRUP(ORB OPS,GNC)St 3	CABIN STOW	
19:00					
11:00	RCS HOT FIRE TEST (ORB OPS, RCS) Config DAP A/AUTO/VERN		RCS HOT FIRE TEST (ORB OPS, RCS) Config DAP A/AUTO/VERN	PLAYBACK (P/TV,CUE CARD) Ref MSG 78, steps 5 & 6 SPRITE: Orbit 140 SPRITE: Orbit 160 KU TDRW: 14/20:02-20:30	TFL 188
20:00					

TDRW

TRK

FCS C/O

236

237

238

STS-107 (RED FD16)

GMT Date 01/31 (031) | TDRS W E | ORB | MET Day 014 | ATT

HUSBAND CDR

- I'CNCT: L OMS to RCS (OPCL, RCS)p.8-3
- VIEWPORT: REF MSG 236
- EXERCISE
- R12 VPU PWR - OFF
- CE WPP DEACTIVATION (RDM OPS, ON ORBIT) Ref MSG 228, Item 2
- MNVR (TRK) TDRW TRK (LPT) TG=3 BV=5 P=90 Y=330 OM=270 LAT=0 LON= -174 ALT=19323 B9/AUTO/VERN (14/22:04)Init TRK
- MNVR (TRK) BIAS -ZLV -XVV (MEIDEX) TG=2 BV=5 P=90 Y=30 OM=0 B9/AUTO/VERN(14/22:25)Init TRK
- IMU STAR OF OPPTY ALIGN (ORB OPS)
- MNVR (TRK) TDRW TRK (LPT) TG=3 BV=3 OM=350 LAT=0 LON= -174 ALT=19323 B9/AUTO/VERN (14/23:05)Init TRK
- MNVR (TRK)-ZSI (SOLCON) TG=5 RA=313.07 DEC=-17.58 BV=3 OM=83 B9/AUTO/VERN (14/23:39)Init TRK When in ATT, Change DAP to A10

CHAWLA MS2

- C F6 ADI RATE - MED
- C LOAD AFTER RCS HOTFIRE: MNVR (TRK) WLP TRK (LPT) TG=3 BV=3 OM=270 LAT=37.5 LON=-75.3 ALT=0 B11/AUTO/ALT (14/20:25) Init TRK
- D CANCEL (ITEM 21) at 14/20:54 MNVR (TRK) -ZLV -XVV (MEIDEX) TG=2 BV=3 OM=0 B9/AUTO/VERN(14/20:55)Init TRK
- MNVR (TRK)BIAS -XLV +ZVV (SPRITE) TG=2 BV=5 P=163 Y=0 OM=0 B9/AUTO/VERN (14/21:30)Init TRK
- P/TV 05 SETUP (ENTRY VIDEO) (P/TV, SCENES)
- LANDING-1 COMM C/O (ORB OPS, COMM/INST) MILA AOS: 14/22:21-22:29
- EXERCISE
- LANDING-1 COMM C/O (ORB OPS, COMM/INST) DFRS AOS: 14/23:47-14/23:55 MILA AOS (B/U): 14/23:56-15/00:03

CLARK MS4

- EXERCISE
- D F6 ADI RATE - as required 014, Pri RJD DRIVER,LOGIC(sixteen)-OFF 015, RJDA 1A L2/R2 MANF DRIVER-ON 016
- CABIN STOW
- ZCG POWER OFF (ZCG,NOM PROC)
- CABIN STOW
- VIEWPORT: REF MSG 236

RAMON PS1

- PLAYBACK (P/TV,CUE CARD) Ref MSG 78, steps 5 & 6 SPRITE: Orbit 140 SPRITE: Orbit 160 KU TDRW: 14/20:02-20:30
- MEIDEX SETUP (PL OPS, FREESTAR) Ref MSG 226 & 233
- MEIDEX SCIENCE (PL OPS, FREESTAR) REF MSG 226 & 233 KU TDRE: 14/20:58-21:12
- MEIDEX SCIENCE (SPRITE) (PL OPS, FREESTAR) REF MSG 226 & 233 KU TDRW: 14/21:45-22:05
- MEIDEX SCIENCE (PL OPS, FREESTAR) REF MSG 226 & 233 TDRE: 14/22:25-22:30
- MEIDEX CLOSEOUT(PL OPS,FS) Step 5
- MEIDEX PGSC S/U(PL OPS,FS)St 5&6
- MEIDEX PGSC STOW (PL OPS, FS)
- EXER

MCC

- TFL 185
- TFL 188

STS-107 (RED FD16)

GMT Date 01/31 (031) | TDRS W E | ORB | MET Day 015 | ATT

HUSBAND CDR | CHAWLA MS2 | CLARK MS4 | RAMON PS1 | MCC

16:00 — 17:00 — 18:00 — 19:00

ORB: 241, 242, 243

ATT: -ZSI, +ZSI

00:00

LANDING-1 COMM C/O
(ORB OPS, COMM/INST)
DFRS AOS: 14/23:47-14/23:55
MILA AOS (B/U): 14/23:56-15/00:03

CABIN STOW

EXER

SPLY H2O DMP W/FES(ORB OPS,ECLS)St 1

CABIN STOW

MNVR (TRK)+ZSI
R=111 P=235 Y=318
A1/AUTO/VERN (15/00:40)Init MNVR

VIEWPORT: REF MSG 236

FIX 11-CAN H(BRIC, NOM PROC)
POWERDOWN (BRIC, NOM PROC)

01:00

MEAL | MEAL | MEAL | MEAL

02:00

GALLEY OVERNIGHT CONFIG
(ORB OPS, ECLS)

CABIN STOW

BDS-05 SPIN FILTR RATE CHANGE
REF MSG 126

VIEWPORT: REF MSG 236

DEORBIT PREPARATION
(BDS-05, CUE CARD)
Ref MSG 235

CABIN STOW

SH STATUS CHK-RED TEAM
(SH EH, CUE CARDS)

CABIN STOW

03:00

CABIN STOW

UNLOAD AND RESTOW AUTOCLAVES
(ZCG, NOM PROC)

SALIVA COLLECT(FROZEN)
(JSC-HLS, PHAB4 NOM PROC)
Perform Steps 7-12 only

SALIVA COLLECT(FROZEN)
(JSC-HLS, PHAB4 NOM PROC)
Perform Steps 7-12 only

HARDWARE RESTOW FD16
(JSC-HLS, PHAB4 NOM PROC)

HARDWARE RESTOW FD16
(JSC-HLS, PHAB4 NOM PROC)

VIEWPORT: REF MSG 236

04:00

CABIN STOW

STS-107 (RED FD16)

GMT Date 01/31 (031) | T D R S W E | O R B | MET Day 015 | A T T

HUSBAND CDR | CHAWLA MS2 | CLARK MS4 | RAMON PS1 | MCC

04:00 — **CLOSE OUTLK,CNFG PDIP:OCA, CALL MCC**

HARDWARE RESTOW FD16 (JSC-HLS, PHAB4 NOM PROC) — HARDWARE RESTOW FD16 (JSC-HLS, PHAB4 NOM PROC)

20:00 — CABIN STOW — CABIN STOW

SPLY H2O DMP W/FES(ORB OPS,ECLS)
St 2 FES PRI A req'd

GALLEY MORNING CONFIG (ORB OPS, ECLS)

DEACTIVATION (CIBX, NOM PROC) REF MSG 108

MD STATUS CHK-RED TEAM (SH EH, CUE CARDS)

DEACTIVATION(BIOTUBE, NOM PROC)

05:00 — DUAL SHIFT PRE-SLEEP (ORB OPS, CREW SYS)

21:00 — VIEWPORT: REF MSG 236

OVERNIGHT CONFIG [A]

CONFIG PDIP JUMPER FOR OCA
L1 CAB TEMP sel - 10 o'clock position

DUAL SHIFT PRE-SLEEP (ORB OPS, CREW SYS) — DUAL SHIFT PRE-SLEEP (ORB OPS, CREW SYS) — DUAL SHIFT PRE-SLEEP (ORB OPS, CREW SYS)

06:00 — DUAL SHIFT PRE-SLEEP (ORB OPS, CREW SYS)

22:00 — HANDOVER — HANDOVER — HANDOVER — HANDOVER

06 CK UHF MODE - OFF
PRIVATE MEDICAL CONFERENCE

DUAL SHIFT PRE-SLEEP (ORB OPS, CREW SYS) — DUAL SHIFT PRE-SLEEP (ORB OPS, CREW SYS)

07:00

23:00 — SLEEP — SLEEP — SLEEP — DUAL SHIFT PRE-SLEEP (ORB OPS, CREW SYS)

08:00

[A] OVERNIGHT CONFIG
- PAPER IN COLOR PRINTER
- FLOPPY DISK IN PROSHARE
- KFX LAUNCHED

CHECK APPLICATIONS CLOSED
- OUTLOOK

PS1 Sleep Start @ MET 15/08:00