STS-125

FD 08 Execute Package

MSG	Page(s)	Title
059A	1 - 14	FD08 Flight Plan Revision **(pdf)**
060	15 - 17	FD08 Mission Summary **(pdf)**
061	---	FD07 MMT Summary **(pdf - Electronic Only)**
062	18	FD08 IMAX Notes **(pdf)**
063	19	FD08 Crew Choice D/L Opportunities **(pdf)**

Approved by FAO: *Jennifer Clevenger*

Last Updated: May 18 2009 9:10AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX

MSG NO.	TITLE
059	FD08 Flight Plan Revision
060	FD08 Mission Summary
061	FD07 MMT Summary
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063	FD08 Crew Choice D/L Opportunities

1. Post Sleep Cryo Config

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

2. Simo Dump Details

   For the simo dump, MCC will TMBU the limits in steps B and K. The supply water portion of the dump will be 90 minutes. The waste water portion of the dump will be ~50 minutes and will dump the waste tank to 5%. Multiple waste nozzle bakeouts may be required due to the length of this dump.

3. During EMU Prebreathe (EVA p 4-8): Step 2 is required; O2 TK3 HTR A,B (two) - AUTO.

4. Manual Door Stay Tip for EVA 5

   Our assessment indicates the Manual Door Stay will have the same interference problem on the SSM Bay 3 door as was seen on the SSM Bay 2 door. Specifically, the rotation of the EVA knob on the Manual Door Stay will be inhibited due to interference with the HST handrail stanchion. Recommendation for the Bay 3 battery installation on EVA day 5:

   Open the door fully until hitting integral door stay stop, then install manual stay using normal technique. If there is an interference with the knob, then proceed without tightening.

   Alternatively, tethering the door open remains an option.

5. The following additions need to be made to line item #12 on page FS 1-72 of the P/TV06 HST EVA (OPS) (P/TV, SCENES):

P/TV06 HST EVA

12.	NOBL **5 and** 8 INSTALLATION • Video of: o Bay **5 and** 8 MLI, Patch Removal o Bay **5 and** 8 NOBL Install	IVA D2Xs 80-200mm	WVS,A,B,C, D,ELBOW		PLBK desired	

6. Please make the following pen & ink to EVA 5 (EVA, TIMELINES):

- FGS-2 R&R, pg FS 7-121 under the RMS EV column in the FGS-2R INSTALLATION block:
  WAS: 3. PGT [A3, CW3, 10.5]
  IS: 3. PGT [A3, **CW2**, 10.5]

- FGS-2 R&R, pg FS 7-123 under the RMS EV column in the FGS-2 STOW block:
  WAS: 7. PGT [A3, CW3, 10.5]
  IS: 7. PGT [A3, **CW2**, 10.5]

7. REPLACE PAGES 2-16 THROUGH 2-17 AND 3-80 THROUGH 3-89.

GMT 05/18/09 (138)
β = −6
MET Day 006

12 13 14 15 16 17 18 19 20 21 22 23 007/00

STS-125

CDR/R2 ALTMAN	SLEEP; LOG; POST SLEEP; MNVR PMC A/G; POST SLEEP; 10.2M; R5R+; POST SLEEP; -ZLV -XVV; ROT FSS TO +V2; G2 EXP; EXERCISE; SUNRS PRTCT; SUNSET PRTCT; SUNRS PRTCT; -ZLV -XVV
PLT JOHNSON	SLEEP; POST SLEEP; BATT*; HL/PGT; EVA PREP; P/TV 06 S/U; P/TV 03 FSS ROT; REBA-T; P/TV06 EVA 5 OPS; IMU; P/TV06 EVA 5 OPS; ICBC16; P/TV06 EVA 5 OPS; ICBC17; P/TV06 OPS
MS1/EV4 GOOD	SLEEP; ASPRN; POST SLEEP; EVA PREP; PURGE; EMU PRE BREATHE; DPRS; IVA EVA 5 SUPPORT; EXERCISE; IVA EVA 5 SUPPORT
MS2/R1 McARTHUR	SLEEP; LOG; POST SLEEP; SIMO INIT; OCA#; POST SLEEP; WASTE TERM; POST SLEEP; STERYM; ROT FSS TO +V2; MCIU; EVA SETUP; RMS BATT 3 SUPPORT; RMS FGS-2 SUPPORT; RMS NOBL 8 SPRT; MFR RLS
MS3/EV1 GRUNSFELD	SLEEP; ASPRN; POST SLEEP; EVA PREP; PURGE; EMU PRE BREATHE; DPRS; PDPS; EGRESS & SETUP; BAY 3 BATTERY R&R; FGS-2 R&R; NOBL 5/ PRTL NOBL 8; CLSOUT; INGRST
MS4/EV3 MASSIMINO	SLEEP; ASPRN; POST SLEEP; EVA PREP; PURGE; EMU PRE BREATHE; DPRS; PDPS; IVA EVA 5 SUPPORT; EXERCISE; IVA EVA 5 SUPPORT
MS5/EV2 FEUSTEL	SLEEP; ASPRN; POST SLEEP; EVA PREP; PURGE; EMU PRE BREATHE; DPRS; PDPS; EGRESS & SETUP; BAY 3 BATTERY R&R; FGS-2 R&R; NOBL 5/ PRTL NOBL 8; CLSOUT; INGRST

EVA 5 (5:45)

BAY 3 BATTERY/FGS-2/NOBL 5/8

HST

HST CMD	SSR ENGNR PLAY BACK; BATT PREP FOR C/O; BATT; BATTVE; LEST; FGS2; FGS-2; OTA1; FGS-2; OTA2; FSW

STS

DAY/NIGHT	
ORBIT	100; 101; 102; 103; 104; 105; 106; 107
TDRS W	
TDRS E	
TDRS Z	
ORB ATT	-ZLV -XVV; -ZLV +YVV; -ZLV -XVV; SUN PROTECT

HST

HST FWD AXIS	+V3 FWD; +V2 FWD
SA ANGLE	0 deg

NOTES
+RESELECT
*CHECK
#CH 2

FGS-2 BAY DOORS OPEN

FD08

GMT 05/18/09 (138)
β=-5
MET Day 007

007/00 19 01 20 02 21 03 22 04 23 05 05/19 06 01 07 02 08 03 09 04 10 05 11 06 12

STS-125	CDR/R2 ALTMAN	BUS; HGA DEPLOY; ROT*; SA SLEW (90); G2 CON; TRK -XSI; PRE SLEEP; -ZLV -XVV; FUT MNVR; R5R+; PMC OCA; PRE SLEEP; 10.2M; SLEEP
	PLT JOHNSON	ICBC4B; OPS/TV06; P/TV08 S/U; P/TV08 HGA DEPLOY; P/TV03; 10.2M; BATT#; HL/PGT; BATT INIT; HDTV; EXERCISE; ICBC; PRE SLEEP; BATT*; PRE SLEEP; SLEEP
	MS1/EV4 GOOD	IVA EVA 5 SUPPORT; RPRS; POST EVA W/H2O; BATT*; EMU SWAP; REBA-I; RNDZ TOOLS C/O; PRE SLEEP; SLEEP
	MS2/R1 McARTHUR	MFR RLS; PARK; HGA DEPLOY; ROT*; PRE SLEEP; PDIP@; PRE SLEEP; SLEEP
	MS3/EV1 GRUNSFELD	CLSOUT INGRS; PRPS; RPRS; POST EVA W/H2O; BATT*; EMU SWAP; REBA-I; D2X; PRE SLEEP; SLEEP
	MS4/EV3 MASSIMINO	IVA EVA 5 SUPPORT; PRPS; RPRS; POST EVA W/H2O; EMU SWAP; PRE SLEEP; SLEEP
	MS5/EV2 FEUSTEL	CLSOUT INGRS; PRPS; RPRS; POST EVA W/H2O; EMU SWAP; WLES; RNDZ TOOLS C/O; PRE SLEEP; OCA#; PRE SLEEP; SLEEP
HST	HST CMD	OTA3; INT#; HGA DEPLOY; SA SLEW (90); BATT F/T; FGS-2 F/T; FGS-2 AMS F/T; PSEA; SSR ENGNR PLAY BACK; PIT; INERT; EPH; SMACS; FSW; VERIF; SSR
STS	DAY/NIGHT	
	ORBIT	107; 108; 109; 110; 111; 112; 113; 114
	TDRS W E Z	
	ORB ATT	BIAS -ZLV -XVV; BIAS -XSI; BIAS -ZLV -XVV
HST	HST FWD AXIS	+V2 FWD; -V3 FWD
	SA ANGLE	0 deg; 90 deg
	NOTES	#PWR ACT; *-V3; #TERM; *REMOVAL/INSTALL; +DESELECT; *INIT; @OFF; #PL MAX

STS-125 (FD08)

REPLANNED

GMT Date 05/18 (138) | W | T D R S E | Z | D / N | O R B | MET Day 006 | STS ATI

CDR ALTMAN | PLT JOHNSON | MS2 McARTHUR | HST CMD | NOTES

07:00 — 08:00 — 09:00 — 10:00

12:00 — 13:00 — 14:00 — 15:00 — 16:00

100 — 101 — 102

-ZLV -XVV

SLEEP

SLEEP

SLEEP

SLEEP LOGBOOK (SDBI 1634)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
√HUM SEP for H2O accumulation

SLEEP LOGBOOK (SDBI 1634)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
√HUM SEP for H2O accumulation

FD08 EZ ACTIVITIES:
TEPC (ORB OPS, CREW SYSTEMS)
Check Status
OCAC Filter Inspection
Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA Router), STS6 (RPOP2) and STS7 (WLES)

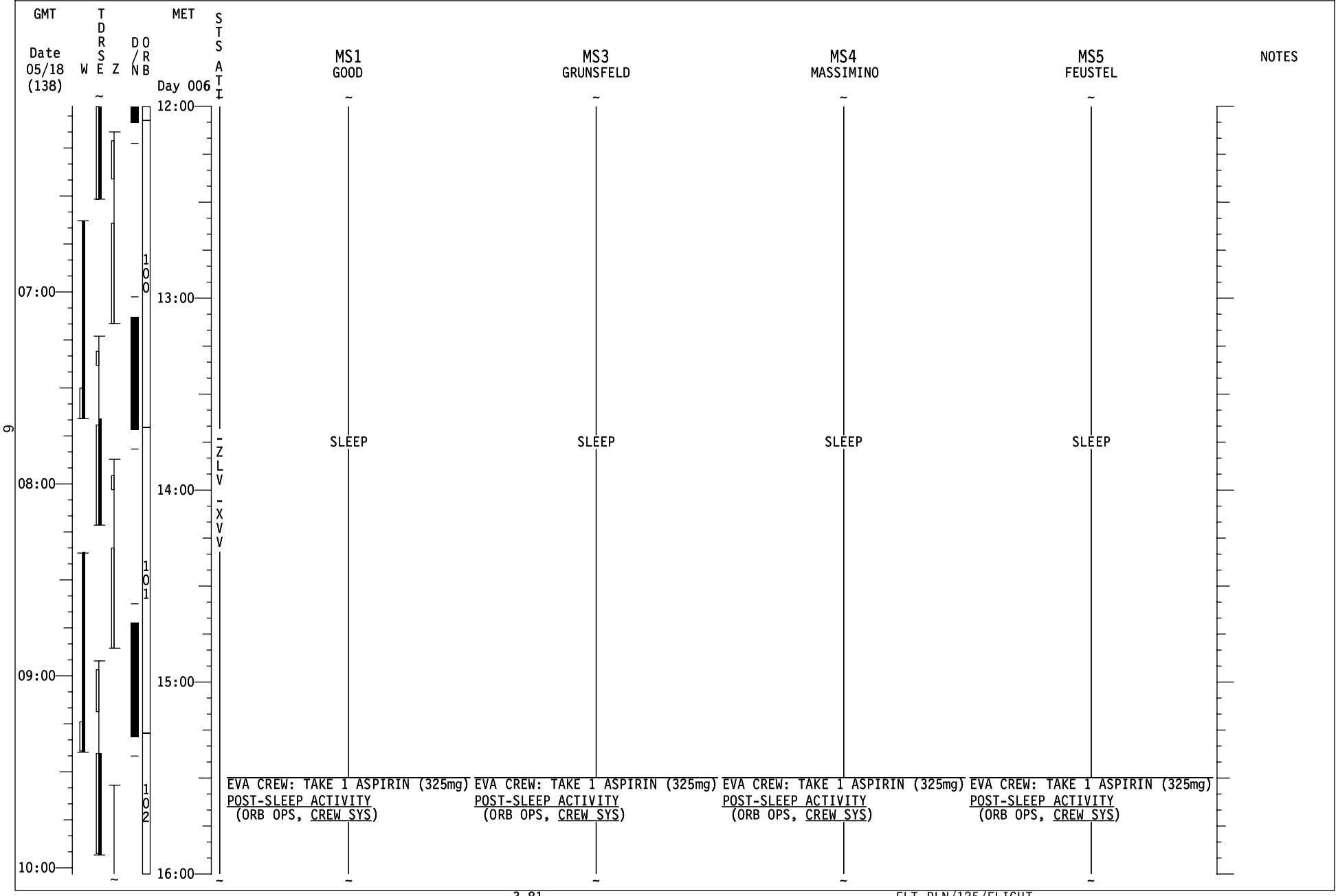
SSR ENGINEERING PLAYBACK

UPLINK KU CH 2 -HST

UPLINK KU CH 2 -RNS

STS-125 (FD08)

REPLANNED



STS-125 (FD08)

REPLANNED

GMT Date 05/18 (138) | W | TDRSE | Z | D/N | ORB | MET Day 006 | STS ATT

CDR ALTMAN

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- 06 √UHF MODE - OFF
- L9 PAYLOAD STATION AUDIO A/G (two) - OFF
- PRIVATE MEDICAL CONFERENCE
- FUT MNVR INIT (Simo Dump)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- 10.2 PSI MAINTENANCE (EVA, 10.2 PSI CABIN) Step 3 only
- R5R RESELECT A
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A10/AUTO/VERN (Dump cmplt) Init TRK
- ROTATE HST (+V3 to +V2) (PL OPS, IN-BAY OPERATIONS)
- G2 SET EXPANSION (ORB OPS, DPS) Configure Dual G2, (1212)
- EXERCISE

PLT JOHNSON

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) √HUM SEP for H2O accumulation
- √EMU Battery charging
- HELMET LIGHT/PGT BATT RCHRG (TERM) (EVA, EMU MAINT/RECHARGE)
- EVA PREP (EVA, EVA PREP)
- P/TV06 HST EVA (P/TV, SCENES) SETUP
- P/TV03 FSS OPS (SETUP & OPS) (P/TV, SCENES) Rotate - Item 2
- REBA BATTERY RECHARGE (TERM) (EVA, EMU MAINT/RECHARGE)
- P/TV06 HST EVA (OPS) (P/TV, SCENES) EVA 5 - Items 1,12-14,16 Ref. MSG 059, Item 5

MS2 McARTHUR

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) √HUM SEP for H2O accumulation
- SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Supply/Waste Dump Ref. MSG 059, Item 2
- L10 MUX/VTR/CC PWR - ON (LED ON)
- RECONFIGURE OCA D/L RATE (Ch. 2) (ORB OPS, PGSC) Part D then A, omit Step 4
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Waste Dump
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Supply Dump
- ROTATE HST (+V3 to +V2) (PL OPS, IN-BAY OPERATIONS)
- L17 Check MCIU filter screen
- DAILY SETUP (PDRS, EVA SETUP)
- BAY 3 BATTERY R&R (PDRS, EVA 5)

HST CMD

- A GNC 23 RCS
- CRT RCS R - ITEM 3 EXEC (*) JET DES R5R - ITEM 37 EXEC (no*)
- PREP FOR BATT CHANGEOUT (BAY 3)

NOTES

- UPLINK PDI FDA -ENA
- UPLINK β21 + Mask Boxes 1,2,3,4

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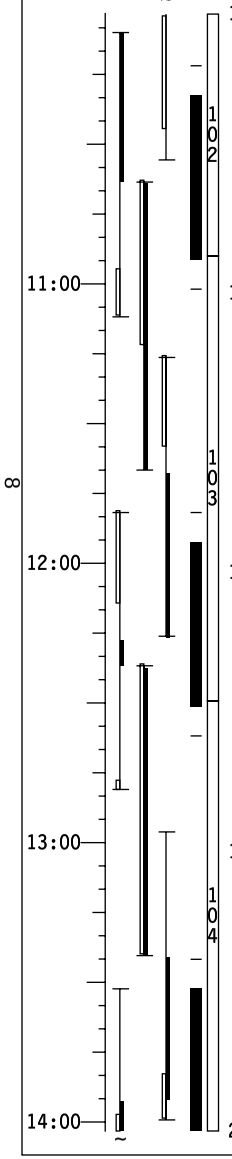
REPLANNED

GMT Date 05/18 (138) | W | TDRSE | Z | D/N | ORB | MET Day 006 | STS ATT



MET	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
16:00	POST-SLEEP ACTIVITY (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)	
17:00	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	
18:00	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	
	EMU PREBREATHE (EVA, EVA PREP) Ref. MSG 059, Item 3	EMU PREBREATHE (EVA, EVA PREP) Ref. MSG 059, Item 3	EMU PREBREATHE (EVA, EVA PREP) Ref. MSG 059, Item 3	EMU PREBREATHE (EVA, EVA PREP) Ref. MSG 059, Item 3	
19:00	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	
		POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)	
20:00	IVA EVA 5 SUPPORT	EGRESS/DAILY SETUP	IVA EVA 5 SUPPORT	EGRESS/DAILY SETUP	
		BAY 3 BATTERY R&R		BAY 3 BATTERY R&R	

STS ATT: -ZLV +YVV, -ZLV -XVV

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REPLANNED

GMT Date 05/18 (138) | W | TDRSE | Z | D/N | ORB | MET Day 006 | STS ATT

20:00 – 21:00 – 22:00 – 23:00 – 00:00

15:00 – 16:00 – 17:00 – 18:00

105 – 106 – 107

STS ATT: -ZLV -XVV; SUN PROTECT

CDR ALTMAN

EXERCISE

MNVR (TRK) BIAS +ZVV (SR Protect)
TG=2 BV=5 P=166 Y=0 OM=348
A10/AUTO/VERN (6/21:26) Init TRK

MNVR (INRTL) (SS Protect)
R=293 P=336 Y=4
A10/AUTO/VERN (6/22:02) Init MNVR

MNVR (TRK) BIAS +ZVV (SR Protect)
TG=2 BV=5 P=166 Y=0 OM=348
A10/AUTO/VERN (6/22:42) Init TRK

NET 6/23:15
GNC 201 UNIV PTG
CANCEL - ITEM 21 EXEC
MNVR (TRK) -ZLV -XVV
TG=2 BV=3 OM=5
B11/AUTO/VERN (6/23:35) Init TRK

PLT JOHNSON

IMU STAR OF OPPTY ALIGN
(ORB OPS, GNC)

P/TV06 HST EVA (OPS)
(P/TV, SCENES)
EVA 5 - Items 1,12-14,16
Ref. MSG 059, Item 5

P/TV09 ICBC3D (FILMING OPS)
(P/TV, SCENES) Scene 16 Ref. MSG 062

P/TV06 HST EVA (OPS)
(P/TV, SCENES)
EVA 5 - Items 1,12-14,16
Ref. MSG 059, Item 5

P/TV09 ICBC3D (FILMING OPS)
(P/TV, SCENES) Scene 17 Ref. MSG 062

P/TV06 HST EVA (OPS)
(P/TV, SCENES)
EVA 5 - Items 1,12-14,16
Ref. MSG 059, Item 5

MS2 McARTHUR

BAY 3 BATTERY R&R
(PDRS, EVA 5)

FGS-2
(PDRS, EVA 5)

NOBL 8
(PDRS, EVA 4)

MFR RELEASE
(PDRS, EVA CLOSEOUT)

HST CMD

BATTERY ALIVENESS TEST (BAY 3)

PREP FOR FGS-2 CHANGEOUT

FGS-2R ALIVENESS TEST

RE-ENABLE OTA HTR GROUPS (PART 1)

FGS-2R ALIVENESS TEST

RE-ENABLE OTA HTR GROUPS (PART 2)

UPLINK NEW BATTERY FSW PARAMETERS

NOTES

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STS-125 (FD08)

REPLANNED

GMT Date 05/18 (138) | W E Z | T D R S | D/N | O R B | MET Day 006 | STS ATI -ZLV -XVV SUN PROTECT

MET	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
20:00			IVA EVA 5 SUPPORT		
21:00	IVA EVA 5 SUPPORT	BAY 3 BATTERY R&R	EXERCISE	BAY 3 BATTERY R&R	
22:00	EXERCISE	FGS-2 R&R	IVA EVA 5 SUPPORT	FGS-2 R&R	
23:00	IVA EVA 5 SUPPORT	FULL NOBL 5 AND PARTIAL NOBL 8		FULL NOBL 5 AND PARTIAL NOBL 8	
00:00		FINAL CLOSEOUT/INGRESS		FINAL CLOSEOUT/INGRESS	

GMT: 15:00, 16:00, 17:00, 18:00

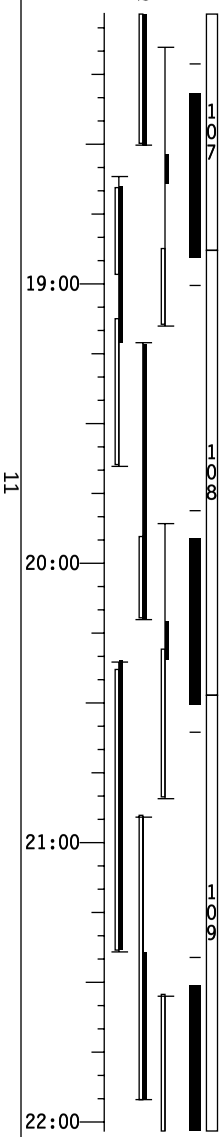
ORB: 105, 106, 107

10

STS-125 (FD08)

REPLANNED

GMT Date 05/18 (138) | W | TDRSE | Z | D/N | ORB | MET Day 007 | STS ATT



MET	STS ATT	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
00:00			P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 4B Ref. MSG 062	MFR RELEASE (PDRS, EVA CLOSEOUT)	RE-ENABLE OTA HTR GROUPS (PART 3)	
			P/TV06 HST EVA (OPS) (P/TV, SCENES) EVA 5 - Items 1,12-14,16 Ref. MSG 059, Item 5			
		ACT HST ESSENTIAL BUS INTRNL PWR (PL OPS, IN-BAY OPERATIONS)	P/TV08 HST RELEASE (SETUP) (P/TV, SCENES)		INTRNL ESSENTIAL POWER ACT	
				RMS EXTENDED PARK (PDRS, EXTENDED PARK)		
	BIAS -ZLV -XVV	HGA DEPLOYMENT (PL OPS, IN-BAY OPERATIONS)	P/TV08 HST RELEASE (OPS) (P/TV, SCENES) HGA Deploy - Item 1	HGA DEPLOYMENT (PL OPS, IN-BAY OPERATIONS)		
01:00					PARALLEL HGA DEPLOYMENT (PART 1)	
		ROTATE HST (+V2 to -V3) (PL OPS, IN-BAY OPERATIONS)	P/TV03 FSS OPS (SETUP & OPS) (P/TV, SCENES) Rotate - Item 2	ROTATE HST (+V2 to -V3) (PL OPS, IN-BAY OPERATIONS)		UPLINK β21 + Mask Boxes 1,2
		SINGLE (DUAL) SA SLEW (PL OPS, IN-BAY OPERATIONS) 0 to 90 degrees Dual Array Slew	10.2 PSI MAINTENANCE (EVA, 10.2 PSI CABIN)		SLEW SOLAR ARRAYS TO 90 DEGREES	
02:00		G2 SET CONTRACTION (ORB OPS,DPS) Configure Single G2, (1111)	MIDDECK EMU BATT RECHARGE (TERM) (EVA, EMU MAINT/RECHARGE)			
		MNVR (TRK) BIAS -XSI (Batt Chrg) TG=4 BV=5 P=151 Y=0 OM=2 A10/AUTO/VERN (7/02:27) Init TRK	HELMET LIGHT/PGT BATTERY RECHARGE (INIT) (EVA, EMU MAINT/RECHARGE) Ref. STS-125 EVA CONSUMABLES Cue Card and MSG 056			
03:00	BIAS -XSI	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	HD DIGITAL VIA CC (ACTIVATION) (Cue Card, DIGITAL PLAYBACK) Ref. MSG 063		BATTERY FUNCTIONAL TEST (BAY 3)	UPLINK KU CH 3 -DTV
			EXERCISE	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
					FGS-2R FUNCTIONAL TEST	
04:00						

STS-125 (FD08)

REPLANNED

GMT Date 05/18 (138) | W E Z | TDRS | DO/N | ORB 107 108 109 | MET Day 007 | STS ATI

MS1 GOOD | MS3 GRUNSFELD | MS4 MASSIMINO | MS5 FEUSTEL | NOTES

00:01 BIAS - ZLV - XVV

00:02 BIAS - XSI

	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL
00:00–04:00	IVA EVA 5 SUPPORT	FINAL CLOSEOUT/INGRESS	IVA EVA 5 SUPPORT	FINAL CLOSEOUT/INGRESS
01:00	REPRESS (Cue Card, DEPRESS/REPRESS) POST EVA (EVA, POST EVA)	PRE REPRESS (CC, DPRS/RPRS) REPRESS (Cue Card, DEPRESS/REPRESS) POST EVA (EVA, POST EVA)	PRE REPRESS (CC, DPRS/RPRS) REPRESS (Cue Card, DEPRESS/REPRESS) POST EVA (EVA, POST EVA)	PRE REPRESS (CC, DPRS/RPRS) REPRESS (Cue Card, DEPRESS/REPRESS) POST EVA (EVA, POST EVA)
02:00	EMU BATTERY REMOVAL/INSTALL [B] (EVA, EMU MAINT/RECHARGE) EMU SWAP (EVA, AIRLOCK CONFIG)	EMU BATTERY REMOVAL/INSTALL [B] (EVA, EMU MAINT/RECHARGE) EMU SWAP (EVA, AIRLOCK CONFIG)	EMU SWAP (EVA, AIRLOCK CONFIG)	EMU SWAP (EVA, AIRLOCK CONFIG)
03:00	REBA BATTERY RECHARGE (INIT) [B] (EVA, EMU MAINT/RECHARGE) RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	REBA BATTERY RECHARGE (INIT) [B] (EVA, EMU MAINT/RECHARGE) D2Xs EVA CAMR (P/TV, REF PROC) D2Xs EVA-CAMR ONLY DISASSEMBLY Perform Between EVAs PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	[B] Ref. STS-125 EVA CONSUMABLES Cue Card and MSG 056 PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	WLES RNDZ TOOLS CHECKOUT PREP (ORB OPS, WLE SENSORS) RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

STS-125 (FD08)

REPLANNED

GMT Date 05/18 (138) | W | TDRSE | Z | D/N | ORB | MET Day 007 | STS ATT

CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=3 A10/AUTO/VERN (7/04:03) Init TRK	EXERCISE	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	FGS-2R FUNCTIONAL TEST	
FUTURE LOADED MNVR (Batt Chrg) R=83 P=153 Y=338 A10/AUTO/VERN (7/13:38) Init MNVR	ICBC3D STATUS REPORT			
R5R DESELECT C L9 PAYLOAD STATION AUDIO A/G (two) - OFF NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC) PMC using A/G for comm	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		FGS-2R AMS FUNCTIONAL TEST	OCA-PMC
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	MIDDECK EMU BATTERY RECHARGE (Init) (EVA, EMU MAINT/RECHARGE) B PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PDIP 1 KU BAND RATE - OFF PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	RESET PSEA CAPTURE AXES TO +V3	UPLINK KU CH 2 -RNS KU CH 3 -DTV PDI FDA -INH
	B Ref. STS-125 EVA CONSUMABLES Cue Card and MSG 056			
10.2 PSI MAINTENANCE (EVA, 10.2 PSI CABIN)	**Crew Wake: 7/14:30**			
SLEEP	SLEEP	SLEEP	SSR ENGINEERING PLAYBACK	UPLINK KU CH 2 -HST

C GNC 23 RCS

CRT RCS R - ITEM 3 EXEC (*)
JET DES R5R - ITEM 37 EXEC (*)

NOTE
Expect DAP RECONFIG message.
DAP will mode to FREE.

C3 DAP: AUTO

Time scale: 23:00, 00:00, 01:00, 02:00; 04:00, 05:00, 06:00, 07:00, 08:00

STS ATT: BIAS -ZLV -XVV

110, 111, 112

13

STS-125 (FD08)

REPLANNED

GMT Date 05/18 (138) | W E Z | D/N | ORB | MET Day 007 | STS ATI

MS1 GOOD | MS3 GRUNSFELD | MS4 MASSIMINO | MS5 FEUSTEL | NOTES

04:00 — PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

23:00 — 110

05:00 — RECONFIGURE OCA D/L RATE [D]
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

00:00 — BIAS-ZLV-XVV

06:00 — 111

Crew Wake: 7/14:30

01:00 — 112

07:00 — SLEEP

02:00 — 08:00

[D] After Crew Choice D/L complete:
L10 √MUX/VTR/CC PWR - ON (LED ON)
RECONFIGURE OCA D/L RATE (PL Max)
(ORB OPS, PGSC) Part C, omit Step 4
L10 MUX/VTR/CC PWR - OFF (LED OFF)

MSG 060 - FD08 MISSION SUMMARY

Good Morning Atlantis!!!

Thanks for another outstanding EVA!

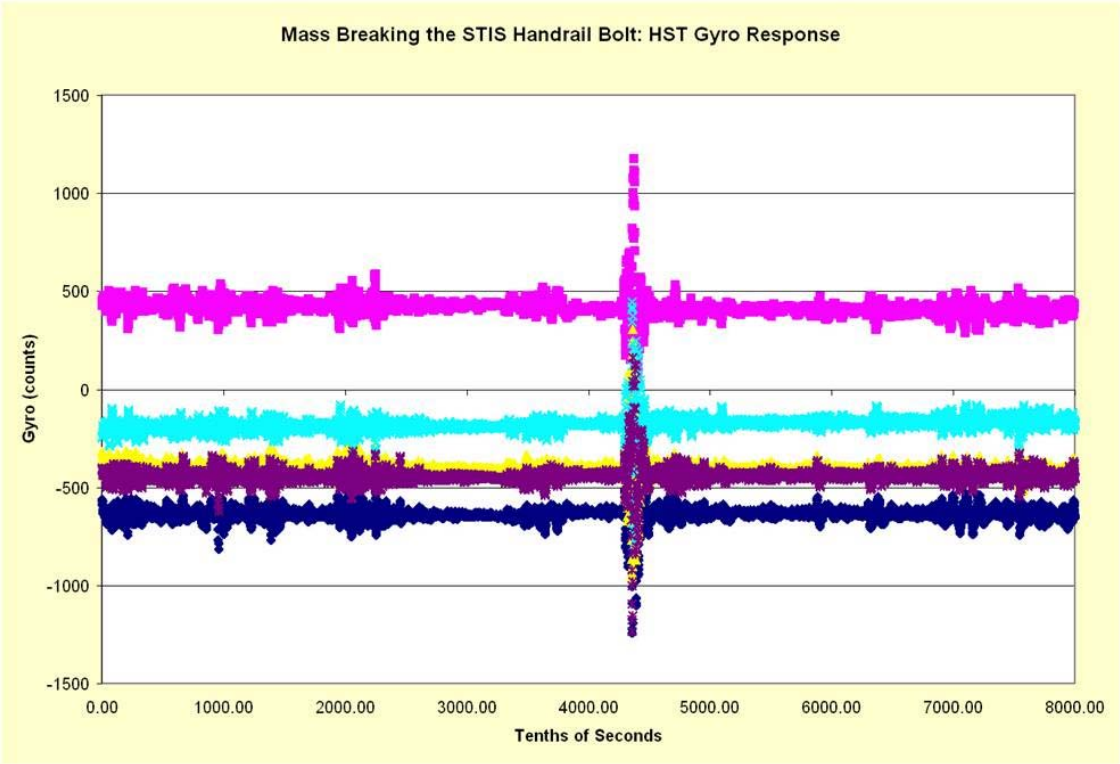
It is a real pleasure to be working with you to restore Hubble to its full potential!

Have a great day!!!

HST Program Words:
Another tour de force for satellite servicing! With two board-level repairs successfully completed, we'll have to start a service to deal with the new business. Hubble acknowledged the strenuous effort put into the job with the response shown on the plot. The title is self-explanatory. Great job on a tremendously complex task.

The aliveness test for STIS has successfully completed. The functional test was then run, but a data transfer snag prevented the science image from getting to the ground. All other data look nominal, so the instrument is doing well. We will rerun the functional to regenerate the image tonight.

Looking forward to one last great EVA!



END OF PAGE 1 OF 3, MSG 060

MSG 060 - FD08 MISSION SUMMARY

YOUR CURRENT ORBIT IS: 305 X 303 NM

NOTAMS:

EDW	LAKEBED RUNWAY 15/33 ELS ONLY. OTHER LAKEBED RWYS RED.
NOR	LAKEBED RUNWAYS GREEN.
MRN	TACAN AOG 23X OUT OF SERVICE.
GUA	RUNWAY 06R/24L CLOSED.
GDV	RUNWAY 03R/21L CLOSED.
KIN	UNUSABLE.
GSA	UNUSABLE.
AMB	UNUSABLE.
VBG	RUNWAY 30 THRESHOLD LIGHTS OUT OF SERVICE
NKT	CLOSED 15 MAY 1500Z UNTIL 18 MAY 1400Z
EIP	NOT USABLE. NO AGREEMENT.
BEN	NOT RECOMMENDED/NOT SUPPORTED.
BYD	POLITICALLY NOT RECOMMENDED. RUNWAY 32 THREHOLD DISP. 700M
AAT	POLITICALLY NOT RECOMMENDED.
LRB	POLITICALLY NOT RECOMMENDED. TACAN CH 85 OUT.

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 106 – 06/22:40 FEW120 7 230/04P06
EDW22 ORB 121 – 07/22:41 SCT150 7 230/06P14

OMS TANK FAIL CAPABILITY:

LOMS FAILS: NO
ROMS FAILS: NO

LEAKING OMS PRPLT BURN:

L OMS LEAK: ALWAYS BURN RETROGRADE
R OMS LEAK: ALWAYS BURN RETROGRADE

OMS QUANTITIES(%) :

L OMS OX = 51.2 R OMS OX = 51.1
FU = 51.2 FU = 51.2

END OF PAGE 2 OF 3, MSG 060

MSG 060 - FD08 MISSION SUMMARY

DELTA V AVAILABLE:

OMS	514 FPS
ARCS (TOTAL ABOVE QTY1)	24 FPS
TOTAL IN THE AFT	538 FPS
ARCS (TOTAL ABOVE QTY2)	54 FPS
FRCS (ABOVE QTY 1)	12 FPS
AFT QTY 1	75%
AFT QTY 2	38%

THERE ARE NO FAILURE/IMPACT/WORK AROUNDS FOR TODAY.

END OF PAGE 3 OF 3, MSG 060

ICBC SCENES

Congrats on the shots yesterday.

Please note that all scenes need to be shot with the 30mm lens today.

EVA 5 SCENES

Scene 16: FGS-2R Install. **30mm** 29 seconds. (EVA C/L, p. FS 7-121, Step 2 of FGS-2R Installation). Scene should show at least half the FGS still outside the telescope, moving in.

This is the prime shot of FGS, but it may be threatened by darkness per the replanned timeline. We very much want this scene. If in real time you see that the install scene is going to be too dark, then we need to shoot the FGS2 removal BEFORE it (similar to the WFC2 scenario).

Scene 17: NOBL 5 Transfer From RMS to FF EV. **30mm** 25 sec (EVA C/L, p. FS 7-126, RMS EV Step 2 of Bay 5 MLI Removal & NOBL Installation).

If this scene turns out to be dark, the same shot during NOBL 8 is fine instead with the same lens. If NOBL 8 transfer is also in darkness, shoot any NOBL ops showing handling of blankets and movement on either NOBL 5 or 8.

Scene 15 is not required since this shot has already been fulfilled.

Scene 4B is only required as a contingency if either Scene 16 or Scene 17 is not completed.

If you have any question about the above, please call us.

MSG 063 - FD08 CREW CHOICE D/L OPPORTUNITIES

Crew Choice TV Downlink KU Available Opportunities for FD8

TDRS	Start	End	Duration
TDE	7/01:53	02:09	16 min
TDW	7/02:21	03:21	60 min
TDE	7/03:22	03:53	31 min
TDW	7/04:04	04:21	17 min
	7/04:33	05:03	30 min
TDE	7/05:28	05:37	9 min
TDW	7/06:15	06:45	30 min

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