# STS-125

## *FD 11 Execute Package*

| MSG | Page(s) | Title |
|---|---|---|
| 089A | 1 - 12 | FD11 Flight Plan Revision **(pdf)** |
| 090 | 13 - 14 | FD11 Mission Summary **(pdf)** |
| 091 | --- | FD10 MMT Summary **(pdf - Electronic Only)** |
| 094 | 15 - 16 | Entry Day Fluid Loading and Anti-G Suit Operations **(pdf)** |

***Approved by FAO:*** *Jennifer Clevenger*

*Last Updated: May 21 2009 6:10AM GMT*
***JEDI*** *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX


| MSG NO. | TITLE |
|---|---|
| 089 | FD11 Flight Plan Revision |
| 090 | FD11 Mission Summary |
| 091 | FD10 MMT Summary |
| 092 | PAO Event Summary Message: Senator Barbara Mikulski |
| 093 | PAO Event Summary Message: ABC/FOX/CBS/NBC/CNN |
| 094 | Entry Day Fluid Loading and Anti-G Suit Operations |


1. Post Sleep Cryo Config
   For today's cryo config, O2 Tanks 1 and 2 and H2 Tanks 1 and 4 will be active.

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

   **A11 CRYO TK4 HTR H2 A,B (two) - AUTO**

   Note: H2 Tank 4 will be depleted today.

2. To help minimize forward propellant usage, we are going to ask you to perform Elevon Park after FCS C/O today. As you know, Aerosurface Drive leaves the elevons at 0 degrees which results in higher prop usage during a topping FES dump. Elevon Park will get them to -7.5 degrees which is much better. Thanks for helping us save gas!

3. LiOH Swap Update
   To protect EOM+3, you will exchange 10 LiOH cans during the LiOH can swap today, instead of the 6 cans indicated on the back of the LiOH Cue Card. If you plan to closeout the airlock today make sure the LiOH swap is complete before doing so. The LiOH swap is currently scheduled on MS2 at 10/01:35 MET. Perform the activity as follows:

   LIOH CAN SWAP
   Swap any 10 used cans 1-29 from MD52M (LiOH Box) with cans 41-50 from Ext A/L Floor Bag.

   In the event of a waveoff on EOM+2, the LiOH changeout is as follows:

| FLIGHT DAY | POS A | POS B | CK CMPLT |
|---|---|---|---|
| PRE FD14 | 47* | 48* | |
| POST FD15 | 49 | 50 | EOM+3 |

4. Prior to Ku Stow this afternoon, we will downlink your Outlook Personal Folders so that you may have them when you return to Houston. Please move any messages that you would like to keep from your INBOX, SENT ITEMS and UPLINKED BY CAPCOM folders to your Personal Folder before MET 9/23:00. We will also perform one final mail synch at the same time to deliver any last minute messages you want to send. We will not lock you out of your e-mail during this time so that you can still read your e-mail, but anything you change or write will be lost.

5. All WLES sensor units are in Idle mode for entry. You have a go to perform WLES DEACT at any time.

6. REPLACE PAGES 2-22 THROUGH 2-23 AND 3-116 THROUGH 3-123.

05/21/09 01:26:38 **REPLANNED**

# FD11

GMT 05/21/09 (141)
β = 1
MET Day 009

07 08 09 10 11 12 13 14 15 16 17 18
12 13 14 15 16 17 18 19 20 21 22 23 010/00

STS-125

| Crew | Activities |
|---|---|
| CDR ALTMAN | SLEEP; LOG; POST SLEEP; R5R*; W/B#; POST SLEEP; FES-I; MDM-ON; FCS C/O; RCS HOT FIRE; DAP; ELV PRK; MDM OFF; FES-T; PILOT OPS; CABIN STOW; D/O PREP BRIEF; MEAL; CABIN STOW; HDTV VIP PAO; VIP EVENT; CREW PHOTO; CABIN STOW; EXERCISE |
| PLT JOHNSON | SLEEP; LOG; POST SLEEP*; FILTER CLEANING; FCS C/O; RCS HOT FIRE; ENTRY VIDEO; SET UP; PILOT OPS; CABIN STOW; D/O PREP BRIEF; SSV DEACT; MEAL; CABIN STOW; PAO SET UP; HDTV VIP PAO; VIP EVENT; CREW PHOTO; EXERCISE |
| MS1/EV4/R2 GOOD | SLEEP; POST SLEEP; CABIN STOW; EXERCISE; CABIN STOW; POST EVA ENT PREP; D/O PREP BRIEF; L-1 COMM CHK; MEAL; L-1 COMM CHK; HDTV VIP PAO; VIP EVENT; CREW PHOTO; CABIN STOW |
| MS2/R1 McARTHUR | SLEEP; LOG; POST SLEEP*; FCS C/O; RCS HOT FIRE; PILOT OPS; EXERCISE; D/O PREP BRIEF; MEAL; CABIN STOW; HDTV VIP PAO; VIP EVENT; CREW PHOTO; FES-I; CABIN STOW |
| MS3/EV1 GRUNSFELD | SLEEP; POST SLEEP; SSE ON; SSE OFF; EXERCISE; CABIN STOW; POST EVA ENT PREP; D/O PREP BRIEF; MEAL; CABIN STOW; HDTV VIP PAO; VIP EVENT; CREW PHOTO; CABIN STOW |
| MS4/EV3/R1 MASSIMINO | SLEEP; LOG; POST SLEEP; FCS C/O SURVEY; CABIN STOW; EXERCISE; POST EVA ENT PREP; D/O PREP BRIEF; MEAL; CABIN STOW; HDTV VIP PAO; VIP EVENT; CREW PHOTO; CABIN STOW |
| MS5/EV2 FEUSTEL | SLEEP; LOG; POST SLEEP; OCA#; POST SLEEP; CABIN STOW; EXERCISE; CABIN STOW; POST EVA ENT PREP; D/O PREP BRIEF; MEAL; CABIN STOW; HDTV VIP PAO; VIP EVENT; CREW PHOTO; CABIN STOW |

STS

| | |
|---|---|
| DAY/NIGHT | |
| ORBIT | 145 146 147 148 149 150 151 152 153 |
| TDRS W E Z | |
| ORB ATT | -ZLV -XVV |
| GND | -MLA -MLA -DFR -MLA -DFR -MLA -DFR -MLA -DFR -MLA |

NOTES
*HUM SEP #CH 2 #HEATER ACT
*RESELECT

GMT 05/21/09 (141) β=3 MET Day 010

010/00 19 01 20 02 21 03 22 04 23 05 05/22 06 01 07 02 08 03 09 04 10 05 11 06 12

STS-125 4

| | | |
|---|---|---|
| CDR ALTMAN | EXER-CISE; HDTV PAO EVENT; ERG STOW; R5R+; PMC A/G; PRE SLEEP | SLEEP |
| PLT JOHNSON | ♣; CABIN STOW; HDTV PAO EVENT; PRE SLEEP | SLEEP |
| MS1/EV4/R2 GOOD | CABIN; STOW; DESELECT; HDTV PAO EVENT; KUSTOW; MADS*; COMM 2; PRE SLEEP | SLEEP |
| MS2/R1 McARTHUR | CABIN STOW; HDTV PAO EVENT; FEST-T; PRE SLEEP; LIOH#; PRE SLEEP | SLEEP |
| MS3/EV1 GRUNSFELD | CABIN STOW; HDTV PAO EVENT; ERG STOW; SSE ON; SSE OFF; PRE SLEEP | SLEEP |
| MS4/EV3/R1 MASSIMINO | CABIN STOW; HDTV PAO EVENT; PRE SLEEP | SLEEP |
| MS5/EV2 FEUSTEL | CABIN; STOW; PGSC STOW PART I; HDTV PAO EVENT; PRE SLEEP | SLEEP |

STS

DAY/NIGHT

ORBIT 153 154 155 156 157 158 159 160 161

TDRS W E Z

ORB ATT -ZLV -XVV

GND —DFR

NOTES
♣EXERCISE
+DESELECT
*PWR ON
#SWAP

# STS-125 (FD11)

**REPLANNED**

GMT Date 05/21 (141) | W | TDRS E | Z | D/N | ORB | MET Day 009 | STS ATI

CDR ALTMAN | PLT JOHNSON | MS2 McARTHUR | NOTES

12:00 — 13:00 — 14:00 — 15:00 — 16:00

07:00 — 08:00 — 09:00 — 10:00

ORB: 145, 146, 147, 148

STS ATI: -ZLV -XVV

CDR: SLEEP

PLT: SLEEP

MS2: SLEEP

SLEEP LOGBOOK (SDBI 1634)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (SDBI 1634)

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

**FD11 EZ ACTIVITIES:**
TEPC (ORB OPS, CREW SYSTEMS)
Check Status
FLUID LOADING PREP
Ref. MSG 094
Inform MCC prior to filling drink bags
Hard reboot all PGSCs not shut down overnight, except:
STS1 (OCA ROUTER)

**FD11 CABIN STOW ACTIVITIES:**
FLIGHTS WITH RETENTION NET
(REF DATA, ENTRY STOW)
Ref. MSG 077
Specialist Seat Installation
Remove loose items stored in A/L

A GNC 23 RCS

CRT RCS R - ITEM 3 EXEC (*)
JET DES R5R - ITEM 37 EXEC (no*)

R5R RESELECT A

W/B STEAM VENT HTR ACT
R2 √BLR CNTLR/HTR(three) -B
PWR (three) -ON

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)

5

# STS-125 (FD11)

**REPLANNED**

GMT Date 05/21 (141) | W | T D R S E | Z | D/N | O R B | MET Day 009 | STS ATI

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

12:00 — 13:00 — 14:00 — 15:00 — 16:00

07:00 — 08:00 — 09:00 — 10:00

145 — 146 — 147 — 148

-ZLV -XVV

SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

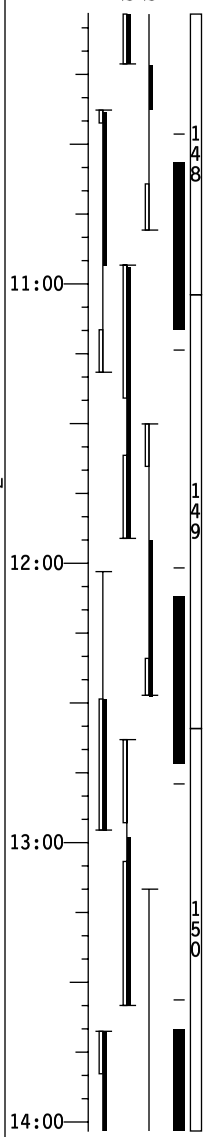
SLEEP LOGBOOK (SDBI 1634)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

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)

# STS-125 (FD11)

**REPLANNED**

GMT Date 05/21 (141) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATT




| MET | CDR ALTMAN | PLT JOHNSON | MS2 McARTHUR | NOTES |
|---|---|---|---|---|
| 16:00 | SUPPLY WATER DUMP USING FES (ORB OPS, ECLS)<br>Step 1 only, using FES PRI B<br>06 MDM FF2,4 (two) - ON<br>GNC I/O RESET<br>FCS CHECKOUT<br>(ORB OPS, GNC)<br>Ref. MSG 083 | FILTER CLEANING<br>(IFM, SCHEDULED MAINTENANCE)<br>FCS CHECKOUT<br>(ORB OPS, GNC)<br>Ref. MSG 083 | POST-SLEEP ACTIVITY<br>(ORB OPS, CREW SYS)<br>FCS CHECKOUT<br>(ORB OPS, GNC)<br>Ref. MSG 083 | UPLINK<br>TFL 161 |
| 17:00 | RCS HOT FIRE TEST<br>(ORB OPS, RCS) | RCS HOT FIRE TEST<br>(ORB OPS, RCS) | RCS HOT FIRE TEST<br>(ORB OPS, RCS) | |
| | DAP: AUTO<br>ELEVON PARK, GNC 201<br>(ORB OPS, GNC) Ref. MSG 089, Item 2<br>06 MDM FF2,4 (two) - OFF | ENTRY VIDEO SETUP<br>(P/TV, MINI-CAM) | | |
| 18:00 | SUPPLY WATER DUMP USING FES (ORB OPS, ECLS)<br>Step 2 only, FES PRI B req'd<br>PILOT WITH RHC<br>(ORB OPS, PGSC) | PILOT WITH RHC<br>(ORB OPS, PGSC) | PILOT WITH RHC<br>(ORB OPS, PGSC) | |
| 19:00 | CABIN CONFIG/STOW | CABIN CONFIG/STOW | EXERCISE | |
| 20:00 | DEORBIT PREP BRIEFING | DEORBIT PREP BRIEFING | DEORBIT PREP BRIEFING | |

STS ATT: -ZLV -XVV

7

# STS-125 (FD11)

**REPLANNED**

GMT Date 05/21 (141) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATT | MS1 GOOD | MS3 GRUNSFELD | MS4 MASSIMINO | MS5 FEUSTEL | NOTES

| MET | MS1 GOOD | MS3 GRUNSFELD | MS4 MASSIMINO | MS5 FEUSTEL |
|---|---|---|---|---|
| 16:00 | CABIN CONFIG/STOW | SSE STATUS CHECK Ref. MSG 086 Steps 1-3<br>SSE STATUS CHECK Ref. MSG 086 √MCC for required steps | FCS CHECKOUT CAMR SETUP (P/TV, REF PROC) | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) |
| 17:00 | EXERCISE | EXERCISE | CABIN CONFIG/STOW | CABIN CONFIG/STOW |
| 18:00 | CABIN CONFIG/STOW | CABIN CONFIG/STOW | EXERCISE | EXERCISE |
| 19:00 | POST EVA ENTRY PREP (EVA, POST EVA ENTRY PREP) Ref. STS-125 EVA CONSUMABLES Cue Card and MSG 056 | POST EVA ENTRY PREP (EVA, POST EVA ENTRY PREP) Ref. STS-125 EVA CONSUMABLES Cue Card and MSG 056 | POST EVA ENTRY PREP (EVA, POST EVA ENTRY PREP) Ref. STS-125 EVA CONSUMABLES Cue Card and MSG 056 | CABIN CONFIG/STOW<br>POST EVA ENTRY PREP (EVA, POST EVA ENTRY PREP) Ref. STS-125 EVA CONSUMABLES Cue Card and MSG 056 |
| 20:00 | DEORBIT PREP BRIEFING | DEORBIT PREP BRIEFING | DEORBIT PREP BRIEFING | DEORBIT PREP BRIEFING |

STS ATT: -ZLV -XVV

Date 05/21 (141): 11:00, 12:00, 13:00, 14:00

D/N: 148, 149, 150

8

# STS-125 (FD11)

**REPLANNED**

GMT Date 05/21 (141) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATT

| CDR ALTMAN | PLT JOHNSON | MS2 McARTHUR | NOTES |
|---|---|---|---|
| DEORBIT PREP BRIEFING | DEORBIT PREP BRIEFING | DEORBIT PREP BRIEFING | |
| | SEQUENTIAL STILL VIDEO (SSV) (P/TV, REF PROC) Perform SSV DEACTIVATION | | |
| MEAL | MEAL | MEAL | |
| CABIN CONFIG/STOW | CABIN CONFIG/STOW<br>CANON G1 (PAO Event Setup) (P/TV, REF PROC) HD CC DNLK | CABIN CONFIG/STOW | |
| VIP PUBLIC AFFAIRS EVENT KU TDRE (22:20-22:50) Ref. MSG 092 | VIP PUBLIC AFFAIRS EVENT KU TDRE (22:20-22:50) Ref. MSG 092 | VIP PUBLIC AFFAIRS EVENT KU TDRE (22:20-22:50) Ref. MSG 092 | UPLINK KU CH 3 - DTV |
| CREW PHOTO | CREW PHOTO | CREW PHOTO | UPLINK KU CH 3 - TV |
| CABIN CONFIG/STOW | EXERCISE | SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Step 1 only, using FES PRI B<br>CABIN CONFIG/STOW | |
| EXERCISE | | | |

Time scale: 15:00, 16:00, 17:00, 18:00; 20:00, 21:00, 22:00, 23:00, 00:00

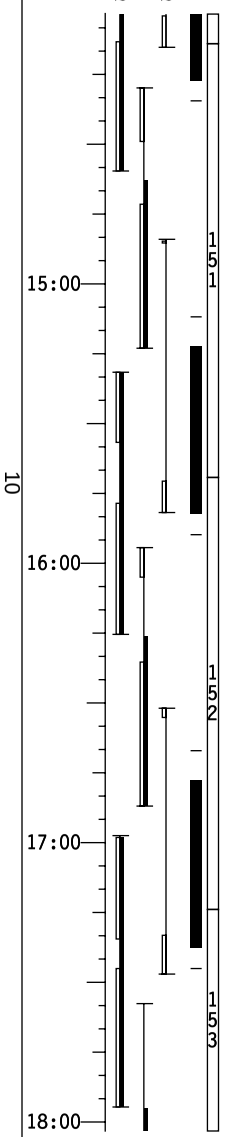
151, 152, 153

-ZLV -XVV

# STS-125 (FD11)

**REPLANNED**

GMT Date 05/21 (141) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATT | MS1 GOOD | MS3 GRUNSFELD | MS4 MASSIMINO | MS5 FEUSTEL | NOTES




| MET | MS1 GOOD | MS3 GRUNSFELD | MS4 MASSIMINO | MS5 FEUSTEL |
|---|---|---|---|---|
| 20:00 | DEORBIT PREP BRIEFING | DEORBIT PREP BRIEFING | DEORBIT PREP BRIEFING | DEORBIT PREP BRIEFING |
| | LANDING-1 COMM C/O (ORB OPS, COMM/INST) MLA (20:28-20:36) | | | |
| 21:00 | MEAL | MEAL | MEAL | MEAL |
| 22:00 | LANDING-1 COMM C/O (ORB OPS, COMM/INST) DFR (21:58-22:06) | CABIN CONFIG/STOW | CABIN CONFIG/STOW | CABIN CONFIG/STOW |
| | VIP PUBLIC AFFAIRS EVENT KU TDRE (22:20-22:50) Ref. MSG 092 | VIP PUBLIC AFFAIRS EVENT KU TDRE (22:20-22:50) Ref. MSG 092 | VIP PUBLIC AFFAIRS EVENT KU TDRE (22:20-22:50) Ref. MSG 092 | VIP PUBLIC AFFAIRS EVENT KU TDRE (22:20-22:50) Ref. MSG 092 |
| 23:00 | CREW PHOTO | CREW PHOTO | CREW PHOTO | CREW PHOTO |
| 00:00 | CABIN CONFIG/STOW | CABIN CONFIG/STOW | CABIN CONFIG/STOW | CABIN CONFIG/STOW |

STS ATT: -ZLV -XVV

# STS-125 (FD11)

**REPLANNED**

GMT Date 05/21 (141) | W | TDRSE | Z | D/N | ORB | MET Day 010 | STS ATI | CDR ALTMAN | PLT JOHNSON | MS2 McARTHUR | NOTES

00:00 — 01:00 — 02:00 — 03:00 — 04:00

19:00 — 20:00 — 21:00 — 22:00

153 — 154 — 155

-ZLV-XVV

**CDR ALTMAN**

EXERCISE

PUBLIC AFFAIRS EVENT
KU TDRW (00:39-01:36)
Alpha stop: 01:05
Ref. MSG 093

CYCLE ERGOMETER OPS
(ORB OPS, CREW SYS)
Perform RECONFIG/STOW

R5R DESELECT B
06 √UHF MODE - OFF
L9 PAYLOAD STATION AUDIO A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

**PLT JOHNSON**

EXERCISE

CABIN CONFIG/STOW

PUBLIC AFFAIRS EVENT
KU TDRW (00:39-01:36)
Alpha stop: 01:05
Ref. MSG 093

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

**MS2 McARTHUR**

CABIN CONFIG/STOW

PUBLIC AFFAIRS EVENT
KU TDRW (00:39-01:36)
Alpha stop: 01:05
Ref. MSG 093

SUPPLY WATER DUMP USING FES
(ORB OPS, ECLS)
Step 2 only, FES PRI B req'd

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

LiOH CAN SWAP
Ref. MSG 089, Item 3

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

**NOTES**

UPLINK
KU CH 3 - DTV

UPLINK
KU CH 3 - TV

B 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

**FD11 ENTRY COOLING CONFIG PRIOR TO PRESLEEP:**
R12 √VPU PWR - OFF (LED off)
Minimize use of P/TV equipment
Dim cabin lighting to 25%

**Crew Wake: 10/12:00**



11

# STS-125 (FD11)

**REPLANNED**

GMT Date 05/21 (141) | W | TDRSE | Z | D/N | ORB | MET Day 010 | STS ATI | MS1 GOOD | MS3 GRUNSFELD | MS4 MASSIMINO | MS5 FEUSTEL | NOTES

Time scale: 19:00, 20:00, 21:00, 22:00 — 00:00, 01:00, 02:00, 03:00, 04:00

Orbit: 153, 154, 155

STS ATI: -ZLV -XVV

## MS1 GOOD

CABIN CONFIG/STOW

WLES DEACTIVATION AND TEARDOWN
(ORB OPS, WLE SENSORS)
Ref. MSG 089, Item 5

PUBLIC AFFAIRS EVENT
KU TDRW (00:39-01:36)
Alpha stop: 01:05
Ref. MSG 093

KU-BD ANT STOW
(ORB OPS, COMM/INST) Deact CCTV

A6L MADS STRAIN GAGE - ON
COMM STRING 1 C/O (PART B)
(ORB OPS, COMM/INST)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

## MS3 GRUNSFELD

CABIN CONFIG/STOW

PUBLIC AFFAIRS EVENT
KU TDRW (00:39-01:36)
Alpha stop: 01:05
Ref. MSG 093

CYCLE ERGOMETER OPS
(ORB OPS, CREW SYS)
Perform RECONFIG/STOW

SSE STATUS CHECK
Ref. MSG 086 Steps 1-3

SSE STATUS CHECK Ref. MSG 086
√MCC for required steps

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

## MS4 MASSIMINO

CABIN CONFIG/STOW

PUBLIC AFFAIRS EVENT
KU TDRW (00:39-01:36)
Alpha stop: 01:05
Ref. MSG 093

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

## MS5 FEUSTEL

CABIN CONFIG/STOW

PGSC NETWORK (B. TEARDOWN) C

COLOR PRINTER STOW
(ORB OPS, PGSC)
Stow Color Printer and all STS PGSCs except STS-2 (WinDecom)

PUBLIC AFFAIRS EVENT
KU TDRW (00:39-01:36)
Alpha stop: 01:05
Ref. MSG 093

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

C P/TV09 ICBC3D (NOMINAL)
(P/TV, SCENES)
ICBC3D DEACTIVATION
Step 1 only

**Crew Wake: 10/12:00**

MSG 090 - FD11 MISSION SUMMARY

Good Morning Atlantis!!!

Hope you had a great day off and enjoyed all your phone calls!!

STS 125 has been an absolutely awesome mission!!!

You have left Hubble much better than you found it, so now it is time to think about heading home!
We are all looking forward to seeing you back here on earth!

YOUR CURRENT ORBIT IS: 305 X 160 NM

NOTAMS:

| | |
|---|---|
| EDW | LAKEBED RUNWAY 15/33 ELS ONLY GREEN. OTHER LAKEBED RUNWAYS 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. |
| AML | CLSD FOR WIP. OPEN FOR EMERGENCY ACFT ONLY 0300 – 1000Z. |
| ILM | RUNWAY 06 REIL OTS |
| VBG | RUNWAY 30 THRESHOLD LIGHTS OUT OF SERVICE. |
| 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 151 – 09/21:05 SCT150 7 230/08P14
EDW22 ORB 166 – 10/20:16 SCT150 BKN250 7 230/08P14

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 = 29.8 R OMS OX = 29.7
FU = 30.1 FU = 29.9

END OF PAGE 1 OF 2, MSG 090

MSG 090 - FD11 MISSION SUMMARY

| DELTA V AVAILABLE: | |
|---|---|
| OMS | 284 FPS |
| ARCS (TOTAL ABOVE QTY1) | 26 FPS |
| | |
| TOTAL IN THE AFT | 310 FPS |
| | |
| ARCS (TOTAL ABOVE QTY2) | 56 FPS |
| FRCS (ABOVE QTY 1) | 0 FPS |
| | |
| AFT QTY 1 | 66 % |
| AFT QTY 2 | 28 % |

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

END OF PAGE 2 OF 2, MSG 090

Fluid loading water for one Entry opportunity should be pulled today. Fluid loading for a one orbit waveoff is not required to be pulled until waveoff is declared. Pulling water for fluid loading on EOM-1 will help maximize Supply Water quantities to support maximum deorbit opportunities.

**Fluid Loading:**

The following is the prescription for fluid loading on entry day:

Initiate fluid loading at 1 hour before TIG. Consume 8 ounces of water or artificially sweetened (A/S) drink with two salt tablets, or 8 ounces of Chicken Consommé every 15 minutes. Fluid loading must be completed by Entry Interface (EI).

| CREWMEMBER | FLUID | TOTAL # OF SALT TABLETS |
|---|---|---|
| CDR (Altman) | 16 oz – Tropical Punch w/ A/S<br>12 oz - Chicken Consommé<br>24 oz – Lemon-Lime Ade | 4 |
| PLT (Johnson) | 32 oz – Lemonade w/ A/S | 8 |
| MS1 (Good) | 40 oz - Lemonade w/ A/S | 10 |
| MS2 (McArthur) | 16 oz - Tropical Punch w/ A/S<br>16 oz - Lemonade w/ A/S | 8 |
| MS3 (Grunsfeld) | 40 oz - Lemonade w/ A/S | 10 |
| MS4 (Massimino) | 8 oz – Cherry Drink with A/S<br>16 oz – Lemonade w/ A/S<br>8 oz – Grape Drink w/ A/S<br>8 oz – Tropical Punch w/ A/S<br>8 oz – Orange Drink w/ A/S | 12 |
| MS5 (Feustel) | 40 oz - Orange Drink w/ A/S | 10 |

**Note:** Chicken Consommé is only available in 12 oz. Servings. Prepackaged volume may exceed prescribed quantity.

If there is a one orbit wave-off and fluid loading was completed on the previous deorbit attempt, then the following prescription should be completed by EI:

| CREWMEMBER | FLUID | TOTAL # OF SALT TABLETS |
|---|---|---|
| CDR (Altman) | 24 oz - Chicken Consommé | 0 |
| PLT (Johnson) | 16 oz – Lemonade w/ A/S | 4 |
| MS1 (Good) | 20 oz – Lemonade w/ A/S | 5 |
| MS2 (McArthur) | 8 oz - Tropical Punch w/ A/S<br>8 oz - Lemonade w/ A/S | 4 |
| MS3 (Grunsfeld) | 20 oz - Lemonade w/ A/S | 5 |
| MS4 (Massimino) | 8 oz – Cherry Drink with A/S<br>8 oz – Grape Drink w/ A/S<br>8 oz – Tropical Punch w/ A/S | 6 |
| MS5 (Feustel) | 20 oz - Orange Drink w/ A/S | 5 |

If there is a greater than one orbit wave-off or a partial fluid load was performed on the previous deorbit attempt then the entire protocol above should be repeated.

**Anti-G Suit Operations:**

Anti-G suits must be inflated to 0.5 psi (one click) at or near entry interface and to at least 1.0 psi (two clicks) at one G.

**Dosimeter Reminder:**

Ensure that all dosimeters are stowed in your ACES suits.