Flight Plan

STS-134/ULF-6
(L-35 FDO Trajectory)

Mission Operations Directorate
Operations Division

Final
March 18, 2011

Launch Date:  Tues. April 19, 2011 GMT
April 19, 2011, 19:48:53 EDT

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National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas
MISSION OPERATIONS DIRECTORATE

FLIGHT PLAN
STS-134

FINAL
March 18, 2011

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Director of Operations

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Lead RPE                    DO4/S. Kirk           281-483-0486
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INTRODUCTION

The STS-134 Flight Plan is the Flight Data File article that contains the on-orbit timeline. It does not contain the detailed timelines that are covered in the Ascent, Post Insertion, Deorbit Prep, and Entry Checklists. The detailed rendezvous and undocking timelines and procedures are contained in the Rendezvous Checklist. The detailed EVA task timelines and procedures are contained in the EVA Checklist.

This Flight Plan satisfies the mission requirements specified in the following documents:
  NSTS-07700 Vol III, Flight Definition and Requirements Document
  NSTS-17462-134, STS-134 Flight Requirements Document
  NSTS-37326, Shuttle Crew Scheduling Constraints
  NSTS-21507, ISS-ULF6 Mission Integration Plan

The timeline formats used in this Flight Plan are based on JSC-19933, Timeline Format Definitions and Standard Notes, Rev C, May 1990.


The following SCSC Exceptions have been submitted in order to meet Category 1 objectives:
  None

The Flight Plan and previously published, non-flown sections listed below are available on the following Space Shuttle Flight Planning web site:


Non-flown sections that are no longer published:
  ISS Commanding Pages
  Attitude Timeline
  Ku-Band Antenna Masking Plan
  Flight Plan Notes
  Flight Plan Walkthrough
SUMMARY TIMELINE
### FL01

**CDR**
- ASCENT
- POST INSERTION
- INERTIAL
- OMS BURN
- EP L
- AFT
- G
- C
- M

**PLT**
- ASCENT
- POST INSERTION
- INERTIAL
- OMS BURN
- EP L
- AFT
- G
- C
- M

### STS

**MS1 SPANKY**
- ASCENT
- POST INSERTION
- AMS ACTIVATION
- PGSC SETUP (PART I)
- PRE SLEEP

**MS2 ROBERTO**
- ASCENT
- POST INSERTION
- P/TV01 VIDEO SETUP
- RMS C/O
- PRE SLEEP

**MS3 DREW**
- ASCENT
- POST INSERTION
- PGSC SETUP (PART I)
- WLES ACT
- PRE SLEEP

**MS4 TAZ**
- ASCENT
- POST INSERTION
- P/TV01 VIDEO SETUP
- GIRA INSTALL
- PRE SLEEP

### KU

- CH 2
  - KU ANT STOWED
  - ASCENT RECORDER DUMP
  - OCA

- CH 3
  - TV
  - AMS
  - TV
  - AMS

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### NOTES

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- INERTIAL
- OMS BURN
- EP L
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**Notes:**
- [A] No ARED/T2 [ISS MNVR]
- [B] No ARED/T2 [ISS MNVR]
- [C] No ARED/T2 [ISS MNVR]
- [D] No Exercise [Deadband Collapse]

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**NOTES**

- [A] NO ARED/T2 | [B] ISS MNVR
- [C] NO ARED/T2 | [D] ISS MNVR
- [E] NO ARED/T2 | [F] ISS MNVR
- [G] NO EXERCISE | [H] DEADBAND COLLAPSE

*DOCKING 1/21:14 (111/21:03 GMT)*
### FD03
- **Mark**
- **Xfer**
- **Setup**
- **Sleep**
- **CO2**
- **Sleep**
- **B**
- **Xfr**
- **Capture**
- **Sleep**
- **OCA**
- **Sleep**
- **AMS**
- **Sleep**
- **PMCA/G**
- **Sleep**

### PLT BOX
- **Xfr**
- **Survey**
- **Pre Sleep**
- **Sleep**
- **AMS**
- **Sleep**

### MS1 SPANKY
- **Unberth**
- **EMU**
- **Pre Sleep**
- **Sleep**

### MS2 ROBERTO
- **Unberth**
- **Pre Sleep**
- **Sleep**

### MS3 DREW
- **PCS**
- **Pre Sleep**
- **Sleep**

### MS4 TAZ
- **Xfr**
- **Pre Sleep**
- **Sleep**

### CH 2
- **AMS**
- **OCA**

### CH 3
- **TV**
- **AMS**

### Notes
- **Status Check**
- **Sleep**
- **Sleep**
- **Sleep**
- **Sleep**

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### Additional Notes
- **FLIGHT PLAN/134/FIN**
- **TDRS AVAIL**
- **ORB ATT**
- **BIAS -XLV -ZVV**
- **TDRS**
- **33 34 35 36 37 38 39 40 41**
- **DE**
- **NO EXERCISE**
- **[E]**
- **[F]**
- **[G]**
- **[H]**
- **[I]**

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- **MS1 SPANKY**
- **MS2 ROBERTO**
- **MS3 DREW**
- **MS4 TAZ**
- **CH 2**
- **CH 3**
- **Notes**

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- **Setup**
- **Survey**
- **Unberth**
- **Pre Sleep**
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- **Pre Sleep**

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- **[F]**
- **[G]**
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**NOTES**

- [E] NO EXERCISE [ELC UNBERTH]
- [F] NO EXERCISE [DOUBLE GRAPPLE]
- [G] NO EXERCISE [ELC INSTALL]
- [H] NO UNISOLATED EXERCISE [1ST-2ND STAGE CAPTURE]
- [I] NO UNISOLATED EXERCISE [MT XLATE]

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- [C] No exercise [AMS install]
- [D] No unisolated exercise [1st thru 3rd stage capture]
- [E] No unisolated exercise [UMA mating]
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ISS Airlock Campout at 10.2 PSI

10.2 DPS

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**ISS Daily Orbit:**
- DAY/NIGHT
- ORBIT

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- #STATUS CHECK
- BIAS -XLV -ZVV

**TDRS AVAIL**

- N E Z

**ISS ORBIT**

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**DAY/NIGHT**

- NO EXERCISE

**FLIGHT PLAN/134/FIN**

- FD05 ISS EXTERNAL SURVEY

- SPANKY

- ROBERTO

- TAZ

- MS1

- MS2

- MS3

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**NOTES**
- **ISS CDR** DIMA
- **FE-1** ALEXANDER
- **FE-2** ANDREY
- **FE-3** RON
- **FE-5** PAOLO
- **FE-6** CODY

**TDRS AVAIL**

**NO EXERCISE**

**ISS DAY/NIGHT**

**ISS ORBIT**

**NOTES**

**2-17**

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- *FILTER CK*
- *INSTALL*
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- TDRS AVAIL
- BIAS -XLV -ZVV
- [A] NO EXERCISE [DOUBLE GRAPPLE]
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**ISS Airlock Campout at 10.2 PSI**

**TDRS**

**ORB ATT**

**NOTES**

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TDRS AVAIL

NO EXERCISE

ISS DAILY ORBIT

NOTES

2-21

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**FD07**

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- DIMA
- SLEEP, POST SLEEP, PW, VELO, TVIS, MEAL

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- ALEXANDER
- SLEEP, POST SLEEP, PW, VELO, TVIS, MEAL

**FE-2**
- ANDREY
- SLEEP, POST SLEEP, PW, MEAL, TVIS

**FE-3**
- RON
- SLEEP, POST SLEEP, HYG, BRK/HATCH, CLS, CAMPOUT EVA PREP, T2, ARED, MEAL, ЕДВ SMPL

**FE-5**
- PAOLO
- SLEEP, POST SLEEP, HYG, BRK/HATCH, CLS, CAMPOUT EVA PREP, EMU, PREBREATHE, C/LK DPRS, T2, MEAL, VIS, FLYWHL, ARED

**FE-6**
- CADY
- SLEEP, POST SLEEP, PW, IP AND IB, ARED, T2, MEAL, SSRMS SPDM LUBE

**NOTES**
- [A] NO UNISOLATED EXERCISE [EVA CREW OUTSIDE OF SARJ]
- [B] NO UNISOLATED EXERCISE [APFR FOR SPDM LEE LUBE]
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**NOTES**

- PRE SLEEP-ISS

**DAY/NIGHT ORBIT** 8

**TDRS AVAIL**

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- **POST SLEEP**
- **ISLE EVA PREP**
- **ISLE EVA PREBREATHE**
- **C_LK DPRS**
- **P/TV07 EVA**
- **MEAL**
- **P/TV07 EVA**

**PLT Box**
- **POST SLEEP**
- **MDDK XFER**
- **EXERCISE**
- **MEAL**
- **MDDK XFER**

**MS1 Spanky**
- **POST SLEEP**
- **ISLE EVA PREP**
- **ISLE EVA PREBREATHE**
- **C_LK DPRS**
- **MDDK XFER**
- **EVA 3 (6:30)**

**MS2 Roberto**
- **POST SLEEP**
- **EXERCISE**
- **MDDK XFER**
- **MEAL**
- **GLACIER TRANSFER**

**MS3 Drew**
- **POST SLEEP**
- **ISLE EVA PREP**
- **ISLE EVA PREBREATHE**
- **C_LK DPRS**
- **MDDK XFER**
- **EVA 3 IVA SUPPORT**

**MS4 Taz**
- **POST SLEEP**
- **EXERCISE**

**No Exercise**
- **Day/Night**
- **Orbit**
- **TDRS**
- **ISS TDRS Avail**
- **ORB ATT**
- **Notes**

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<td>FE-3</td>
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**FD10**
- ISS CDR
- DIMA
- POST SLEEP
- DPC
- PW
- MEAL
- VELO
- TVIS

**FE-1**
- ALEXANDER
- POST SLEEP
- DPC
- PW
- MEAL
- TVIS

**FE-2**
- ANDREY
- POST SLEEP
- DPC
- PW
- MEAL
- TVIS

**FE-3**
- RON
- POST SLEEP
- DPC
- PW
- T2
- H2O
- RCHRG
- CDRA-REAR-UTILITIES
- KABIN
- MEAL
- MEAL

**FE-5**
- PAOLO
- POST SLEEP
- DPC
- PW
- ARED
- CEVIS
- CDRA-REAR-UTILITIES
- KABIN
- MEAL
- MEAL

**FE-6**
- CADY
- POST SLEEP
- DPC
- PW
- PKS
- RK ORLS
- KABIN
- CDRA-REAR-UTILITIES
- BS/TERM
- MEAL
- FFQ

**Notes**
- MELFI INS
- PAO DEACT
- CREW REVIEW
- 2DNT INS
ISS Airlock Campout at 10.2 PSI

**FD10**
- CDR: MARK
- ORBIT: 143-151
- EXERCISE: [A] NO EXERCISE
- STATUS: REBOOST

**FD11**
- POST SLEEP

**PLT BOX**
- PRE SLEEP
- PRE SLEEP
- PRE SLEEP

**MS1 SPANKY**
- PRE SLEEP
- PRE SLEEP
- PRE SLEEP

**MS2 ROBERTO**
- PRE SLEEP
- SLEEP

**MS3 DREW**
- PRE SLEEP
- SLEEP

**MS4 TAZ**
- PRE SLEEP
- SLEEP

**NOTES**
- [A] NO EXERCISE
- REBOOST

**ORBIT**
- 143-151

**TDRS**
- W E Z

**ISS AVAIL**
- BIAS XLV ZVV

---

[DPRS] 10.2

---

**ISS Airlock Campout at 10.2 PSI**
[A] NO EXERCISE [REBOOST]
<table>
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<tr>
<th>Time</th>
<th>FD11</th>
<th>PLT BOX</th>
<th>MS1 Spanky</th>
<th>MS2 Roberto</th>
<th>MS3 Drew</th>
<th>MS4 Taz</th>
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EVA 4 IVA SUPPORT

POST SLEEP

Notes:
- POST SLEEP
- HATCH PREBREATHE
- FILTER CK
- BIAS -XLV -ZVV

Day/Night:
- No Exercise
- No Unisolated Exercise

Orbit:
- 151
- 152
- 153
- 154
- 155
- 156
- 157
- 158
- 159

TDRS:
- N
- W
- E
- Z

ISS TDRS Availability:
- BIAS -XLV -ZVV

Status:
- CREW OUTBOARD OF SARJ FOR P6 PDGF RETRIEVE
- SPDM EDF RELEASE

Notations:
- [A] No Exercise [OBSS STOW]
- [B] No Unisolated Exercise
- [C] No Unisolated Exercise [SPDM EDF RELEASE]
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</table>

**Notes:**
- [A] NO EXERCISE [OBSS STOW]
- [B] NO UNISOLATED EXERCISE [CREW OUTBOARD OF SARJ FOR P6 PDGF RETRIEVE]
- [C] NO UNISOLATED EXERCISE [SPDM EDF RELEASE]
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**NOTES**
- POST EVA W/H2O
- STATUS CHECK
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<td>FE-2 ANDREY</td>
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<td>04/30 01 02 03 04 05 06 07 08 09 10 11 GMT</td>
<td>FE-3 RON</td>
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<tr>
<td>04/30 01 02 03 04 05 06 07 08 09 10 11 GMT</td>
<td>FE-5 PAOLO</td>
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<td>04/30 01 02 03 04 05 06 07 08 09 10 11 GMT</td>
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- *CAMCLUDER CONFIG
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**FD13**
- CDR: Mark
- Post Sleep
- Post Sleep
- Post Sleep
- UNDOCK
- Ops
- FLYAROUND/SEP
- STORM
- Ops
- MEAL
- EXERCISE
- PRE SLEEP

**PLT**
- Box
- Post Sleep
- Post Sleep
- UNDOCK
- Ops
- FLYAROUND/SEP
- STORM
- Ops
- MEAL
- EXERCISE
- PRE SLEEP

**STS 134**
- MS1 Spanky
- Post Sleep
- UNDOCK
- Ops
- FLYAROUND/SEP
- STORM
- Ops
- MEAL
- EXERCISE
- PRE SLEEP

**MS2 Roberto**
- Post Sleep
- P/TV03
- UNDOCK
- Setup
- STORM
- Ops
- MEAL
- EXERCISE
- PRE SLEEP

**MS3 Drew**
- Exercise
- Post Sleep
- UNDOCK
- Ops
- FLYAROUND/SEP
- STORM
- Ops
- MEAL
- EVA UNPACK & STOW
- POST EVA ENTRY PREP
- PRE SLEEP

**MS4 Taz**
- Post Sleep
- Exercise
- UNDOCK
- Ops
- FLYAROUND/SEP
- STORM
- Ops
- MEAL
- EVA UNPACK & STOW
- POST EVA ENTRY PREP
- PRE SLEEP

**Notes**
- Post Sleep
- Status Check
- Filter CK
- UNDOCK 11/14:21
- POST UNDOCK
- STATUS CHECK
- FILTER CK
- UNDOCK
- POST EVA ENTRY PREP
- PRE SLEEP
FD13
ISS CDR
DIMA

DPC PW
TVIS VELO MEAL PFC PW DPC

FE-1
ALEXANDER

DPC PW
PFC MEAL TVIS VELO PW DPC

FE-2
ANDREY

DPC PW
MEAL PFC T2 VELO TVIS PW DPC

FE-3
RON

DPC PW
ARED MEAL BSPORTS PBA PBA+ DICT RMV T2 PFC PW DPC

FE-5
PAOLO

DPC PW
PMA2 DEPRESS PT1 MEAL PDPRT PMA2 PT3 T2 PFC ARED PW DPC

FE-6
CODY

DPC PW
UVIDKO T2 MEAL PCS P/D AUDIO ARED PFC PW DPC

NO EXERCISE

ISS DAY/NIGHT DAILY ORBIT NOTES
*UNDOCK 11/14:21

*PBA RELocate
FD15
CDR MARK
DEORBIT PREP

PLT BOX
DEORBIT PREP

MS1 SPANKY
DEORBIT PREP

MS2 ROBERTO
DEORBIT PREP

MS3 DREW
DEORBIT PREP

MS4 TAZ
DEORBIT PREP

NOTES
#POST SLEEP
#STRAIN GAGE ENABLE
#STATUS CHECK

*D/O TIG 13/16:36
#KSC LANDING 13/17:39
This Page Intentionally Blank
DETAILED TIMELINE
**ACTIVITIES PRIOR TO 0/2:30 ARE IN THE ASCENT AND POST INSERTION CHECKLISTS.**

**THE ORBITER SHOULD BE IN A -ZLV -XVV ATTITUDE UPON ENTERING THE FLIGHT PLAN.**

**FD01 EZ ACTIVITIES:**

- **PCS 1(2) CONFIG (ORB OPS, ECLS)**
- **Config to PCS 1**
- **MO10W 14.7 CAB REG INLET SYS1 VLV - CL**
- **LAMP TEST (ORB OPS, EPS)**
- **SMOKE DETN CKT TEST (ORB OPS, ECLS)**
- **CSA-CP BATTERY CHANGEOUT (ORB OPS, CSA-CP)**
- **CSA-CP CHECKOUT AND ZERO CALIBRATION OPS (ORB OPS, CSA-CP)**
- **VTR CLOCK SET (PHOTO/TV, DTV) if not performed for PLBD rec**
- **D3s (PHOTO/TV, REF PROC) Perform DATE/TIME SET**

**NOTES**

- **AMS ACTIVATION (ASSY OPS, PAYLOADS)**
- **INSTALL BLEED ORIFICE (ASSY OPS, PAYLOADS)**
- **AMS ACTIVATION (ASSY OPS, PAYLOADS)**
- **OCAC SETUP (ORB OPS, CREW SYS)**
- **RMS PWRUP (PDRS, RMS PWRUP)**

**UPLINK**

- **β21 + Mask**

**MEAS**

- **MARK BOX SPANKY**

**FLY PKT/134/FIN**

**FLY PKT/134/FIN**
MS2 
ROBERTO

MS3 
DREW 

MS4 
TAZ

GMT

GMT

TDRS

Ku Ch

00:0001:0002:0003:00

00:00

04/19(109)

04:00

03:00

02:00

01:00

00:00

01:00

02:00

03:00

04:00

NOTES

KU

AMS

IN

OUT

STOWED

DUMP

P/TV01 VIDEO SETUP

PHOTO/TV, SCENES

P/TV01 VIDEO SETUP

PHOTO/TV, SCENES

On-Orbit Initialization

(PDRS, ON-ORBIT INIT)

PGSC ACT

P/TV01 VIDEO SETUP

PHOTO/TV, SCENES

PGSC Network (A. SETUP)

P/TV01 VIDEO SETUP

PHOTO/TV, SCENES

PGSC Hard Disk Late Update

PGSC ACT

P/TV01 VIDEO SETUP

PHOTO/TV, SCENES

Color Printer Warmup & Self-Test

PGSC ACT

P/TV01 VIDEO SETUP

PHOTO/TV, SCENES

WorldMap Initialization

PGSC ACT

P/TV01 VIDEO SETUP

PHOTO/TV, SCENES

WINDECOM Ops (A. ACT)

PGSC ACT

P/TV01 VIDEO SETUP

PHOTO/TV, SCENES

Minimum overnight config: OCA ROUTER, KFX, COLOR PRINTER, WLES, WAP

Minimum overnight config: OCA ROUTER, KFX, COLOR PRINTER, WLES, WAP

If desired: STORM PGSC SETUP & ACTIVATION

(STORM, STORM STORM)

If desired: STORM PGSC SETUP & ACTIVATION

(STORM, STORM STORM)

If desired: STORM PGSC SETUP & ACTIVATION

(STORM, STORM STORM)
CREW WAKE AT 00/15:00

AMS ACTIVATION (ASSY OPS, PAYLOADS)

PGSC ACT
OCA SETUP
PGSC NETWORK (A. SETUP)
PGSC HARD DISK LATE UPDATE
COLOR PRINTER UNSTOW & ASSEMBLE
COLOR PRINTER WARMUP & SELF-TEST
WINDECOM OPS (A. ACT)
WORLDMAP INITIALIZATION

Minimum overnight config: OCA ROUTER, KFX, COLOR PRINTER, WLES, WAP

RMS PWRDN (PDRS, RMS PWRDN) Step 1
DON ACTIWATCH (ORB OPS, SDBI)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

RMS PLB SURVEY

RMS PWRDN (PDRS, RMS PWRDN) Step 1

NOTES
CREW WAKE AT 00/15:00

AMS ROBERTO
MS3 DREW
MS4 TAZ

P/TV01 VIDEO SETUP
PHOTO/TV, SCENES

RMS CHECKOUT
(PDRS, RMS C/O)

MS2

WLES ACTIVATION AND CHECKOUT
ORB OPS, WLE SENSORS

GIRA INSTALLATION
ORB OPS, ECLS

IMAGE FILE TRANSFER
PHOTO/TV, NIKON D2xs

PERFORM DCS FILE TO HARD DRIVE FOR ET HANDHELD PHOTOS

HD DIGITAL VIA CC
CUE CARD, DIGITAL PLAYBACK

ET HANDHELD VIDEO D/L KU TDRE (04:57-05:22)

UMBILICAL WELL TPS CAMERA
IMAGERY DOWNLOADING
ORB OPS, PGSC

SHUTTLE EMER EYEWASH (SEE)

After GIRA INSTALL, unstow and fill one drink container, label "FOR EYE RINSE ONLY." Attach on or near galley.

DON ACTIWATCH
ORB OPS, SDBI

PRE-SLEEP ACTIVITY
ORB OPS, CREW STS

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

PERFORM PRE-SLEEP ACTIVITY
ORB OPS, CREW STS

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FD02 EZ ACTIVITIES:

√OCAC FILTER
HARD REBOOT: STS-2(WINDECOM), STS-3(KFX) & STS-4(RPOP)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

√HUM SEPS FOR H2O ACCUMULATION

SLEEP LOGBOOK (ORB OPS, SDBI)

NOTES
On-Orbit OMS Burn

< NC2 TIG (16:53)

Post-Sleep Activity
(ORB Ops, Crew Sys)

CGBA Status CHK;
GLACIER Status CHK (CL)

MIDDECK TRANSFER PREP
Ref. MSG XXX

MNVR (TRK) BIAS +YSI (STBD SURVEY)
TG=4 BY=5 P=0 Y=40 (M=14)
A14/AUTO/VERN, OBSS UNBERTH cmpl, Init TRK

OBSS LDRI/IDC RCC SURVEY - STBD
(PDRS, OBSS OPERATIONS)
R1: Spanky, R2: Box, R3: Drew

For "APCU Power" at end of Step 2:
A15 \APCU 2 OUTPUT - OFF
R1: Roberto, R2: Spanky

L17 Check MCUI filter screen

OBSS UNBERTH
(PDRS, OBSS OPERATIONS)

UPDATE ORBITAL MNVR PAD

Notes
CREW WAKE AT 01/14:00

MARK BOX SPANKY

UHF MODE - OFF

PRIVATE MEDICAL CONFERENCE, via A/G 2

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

NOTES
CREW WAKE AT 01/14:00
Transition to RNDZ C/L at MET 1/15:35

RNDZ PET 00:00 (T1) at MET 1/18:36

FD03 EZ ACTIVITIES:

- OCAC FILTER
- HARD REBOOT: STS-2 (WINDECOM), STS-3 (KFX) & STS-4 (RPOP)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (ORB OPS, SUBI)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
**STS-134/ULF6 FD03**

**Date:** 04/21 (1/1)

**AMS:** 2 3

**NOTES**

- **12:00**
  - MS2: Roberto
  - SLEEP

- **13:00**
  - MS3: Drew
  - SLEEP

- **14:00**
  - MS4: Taz
  - SLEEP

- **14:00**
  - POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
  - SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS)
  - SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS)
  - CGBA STATUS CHK; GLACIER STATUS CHK (CC)

- **15:00**
  - SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS)

- **16:00**
  - SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS)
  - SLEEP LOGBOOK (ORB OPS, SDBI)

- **12:00**
  - MNVR to dump attitude complete before initiating dump

- **16:00**
  - Hardware stowed in XXXX
  - Use CWC S/N XXXX
RECONFIGURE OCA DOWNLINK RATE (4 Mbps) [A]

L17 Check MCIU filter screen

EMU REMOVAL
(EVA, AIRLOCK CONFIG)
Remove ICBs from EMUs, temp stow in Post Insertion locker MF43H

RECONFIGURE OCA DOWNLINK RATE (4 Mbps) [A]

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NOTES
**POST-SLEEP ACTIVITY** (ORB OPS, CREW SYS)
- OCAC PWR - OFF
- C5 DIRECT O2 vlv - OP
- C5 DIRECT O2 vlv - CL
- OCAC PWR - ON

**RENDZVOUS TIMELINE** (RNDZ, RENDEZVOUS T/L)

**EXERCISE**

**SHUTTLE CONDENSATE COLLECTION** (ORB OPS, ECLS)
- Perform SETUP
  - Hardware stowed in XXXX
  - Use CWC S/N XXXX

**O2 REPRESS INIT** B

**O2 REPRESS TERM** (On MCC GO) C

**DAILY TRANSFER LIST UPDATE**
- Ref. Transfer List & MSG XXX
- EMU REMOVAL
  - (EVA, AIRLOCK CONFIG)
    - Remove ICBs from EMUs, temp stow in Post Insertion locker MF43H

**RENDZVOUS TIMELINE** (RNDZ, RENDEZVOUS T/L)

**NOTES**
- NO ARED/T2 EXERCISE [ISS MNVR]
DOCKING 1/21:14

RETURN TO FLIGHT PLAN

POST RNDZ PGSC CONFIG
Configure PGSCs per usage chart

ASSY OPS: 1. 100 HATCH OPENING, STORRM DTO AND SHUTTLE/ISS DUCT INSTALL
X MCC-H complete with Step 1
Perform Steps 2-12, 15-16
V MS3 will perform Step 9.4 (STORRM)

P/TV10 STORRM
(PHOTO/TV, SCENES)

WLES DOCK/UNDK RECOVERY (ORB OPS, WLES)

P/TV04 INGRESS/EGRESS (PHOTO/TV, SCENES)

JOINT OPS: 12. 100 SHUTTLE CREW SAFETY BRIEFING
Roberto/Paolo
Drew/Cady
Taz/Alexander

NOTES
NO ARED/T2 EXERCISE [DOCKING]
NO ARED/T2 EXERCISE [ISS MNVR]
NO EXERCISE [DEADBAND COLLAPSE]
### JOINT OPS: 12.100 SHUTTLE CREW

**SAFETY BRIEFING**
- Mark/Ron

**OCCUR**: 1.110 ELC3 HANDOFF AND INSTALL
- Steps 1-4
  - Exercise Constraint
- ROBO: 1.105 ELC3 MHTEX SURVEY
- ELC UNBERTH AND HANDOFF (PDRS, ELC NOMINAL)
  - Exercise Constraint

**TRANSFER OPS**
- Ref. Middeck Transfer List

**TRANSFER BRIEF PREP**
- Coordinate with transfer counterparts

**TRANSFER BRIEF**
- Call down status to MCC

**PRE-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)
- L9 PS AUD A/G 1.2 (two) - OFF
- Private Medical Conference

---

**JOINT OPS: 3.102 NITROGEN TRANSFER INIT**
- Verify MCC-H complete with Step 2
  - then perform Steps 3-4.3

**JOINT OPS: 3.115 O2 TRANSFER SETUP**
- Steps 2-6,
  - Ground will perform steps 2.4, 6.6 and 7

**JOINT OPS: 3.128 O2 XFER TO HI P AND LO P TANKS**
- Step 2

---

**PRE-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)
- L9 PS AUD A/G 1.2 (two) - OFF
- Private Medical Conference

---

**NOTES**
- [RECONFIGURE OCA DOWNLINK RATE (2 Mbps)]
  - (ORB OPS, PSSC) Part A, Omit step 4

---

**TRANSPORT A**
- MS1

**PRE-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)
CREW WAKE AT 02/14:00

MARK BOX SPANKY
L9  PS AUD A/G 1,2 (two) - OFF

PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2

GMT
Date
04/22 (112)
MET
Day 002

PRE-SLEEP ACTIVITY
ORB OPS, CREW SYS

CDR
SLEEP

PLT
SLEEP

MS1
SLEEP

PRE-SLEEP ACTIVITY
ORB OPS, CREW SYS

NOTES
CREW WAKE AT 02/14:00

ROBERTO DREW TAZ

DIGITAL VIA VTR See pg. 3-27

MS2 ROBERTO

MS3 DREW

MS4 TAZ

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EXERCISE

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS2 SLEEP

MS3 SLEEP

MS4 SLEEP

OCA

AMS

NOTES
MS2 ROBERTO

MS3 DREW

MS4 TAZ

NOTES

NO UNISOLATED EXERCISE [MT X-LATE]
FD04 EZ ACTIVITIES:
√ OCAC FILTER
√ MDDK DUCT SCREEN
HARD REBOOT: STS-2(WINDECOM), STS-3(KFX) & STS-4(RPOP)

EXERCISE

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, CREW SYS)
HUM SEPS FOR H2O ACCUMULATION

NOTES
STs-134/ULF6 FD04

Date 04/22 (112) 04/22 (112)

Day 002

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

GMT MET

TDRS W E Z R D / R

ATT

MS2 ROBERTO

MS3 DREW

MS4 TAZ

Ku Ch

2 3 NOTES

~ ~ ~

BIAS -XLV -ZVV

ATT

ORB414243

~ ~

NOTES

NO UNISOLATED EXERCISE [MT Xlate]

12:00

SLEEP

13:00

SLEEP

14:00

POST-SLEEP ACTIVITY

ORB OPS, CREW SYS

SLEEP LOGBOOK (ORB OPS, SDBI)

POST-SLEEP ACTIVITY

ORB OPS, CREW SYS

SLEEP

15:00

POST-SLEEP ACTIVITY

ORB OPS, CREW SYS

16:00
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

AMS UNBERTH AND HANDOFF (PDRS, AMS NOMINAL) EXERCISE CONSTRAINT

AMS GRAPPLE (PDRS, AMS NOMINAL)

AMS UNGRAPPLE AND VIEWING (PDRS, AMS NOMINAL) EXERCISE CONSTRAINT

VIABLE OPERATIONS (ASSY OPS, PAYLOADS) Step 1

TDRS ~ ~ ~ ~

BIAS -XLV -ZVV ~ ~

AMU: 1.011 PAS NORMAL MATE Steps 6-10 EXERCISE CONSTRAINT

P/TV08 ROBOTICS OPERATIONS (PHOTO/TV, SCENES) OPS, Item 3

P/TV06 ROBOTICS OPERATIONS (PHOTO/TV, SCENES) OPS, Item 3

MS2 ROBERTO

MS3 DREW

MS4 TAZ

NOTES
CREW WAKE AT 03/13:30

ISS EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT
PRE-SLEEP ACTIVITY
MASK PREBREATHE MCC-H performs steps 1, 19 (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NO UNISOLATED EXERCISE [MT Xirate]

SLEEP

NOTES
CREW WAKE AT 03/13:30

ISS EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT
MCC-H performs steps 1, 19

NOTES

NO UNISOLATED EXERCISE [MT Xirate]
### STS-134/ULF6 FD04

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### NOTES

- Day 003
- CDR Mark
- BLT Box
- MS1 Spanky
FD05 EZ ACTIVITIES:
- OCAC FILTER
- MDDK DUCT SCREEN
- HARD REBOOT: STS-2 (WINDECOM), STS-3 (KFX) & STS-4 (RPOP)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
- HUM SEPS FOR H2O ACCUMULATION

PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2

ISS EVA SYSTEMS: 1.211 HYGIENE BREAK
Perform steps 21-22, 24-25
MCC-H performs step 23

ISS EVA SYSTEMS: 1.216 EVA PREP
MCC-H performs step 1
ISS EVA SYSTEMS: 1.216 EVA PREP
MCC-H performs step 1

ISS EVA SYSTEMS: 1.220 EMU PURGE
MCC-H performs steps 6 and 12

ISS EVA SYSTEMS: 1.225 EMU PREBREATHE
Steps 3, 7, 10 not required
MCC-H performs step 48

ISS EVA SYSTEMS: CREWLOCK
DEPRESS/REPRESS CC
Perform CREWLOCK DEPRESS

CWC-I FILL #4
(ORB OPS, CWC-I FILL)
Perform Parts D & E
Ref. MSG XXX

CWC-I FILL #5
(ORB OPS, CWC-I FILL)
Perform Parts D & E
Ref. MSG XXX

CWC-I FILL #6
(ORB OPS, CWC-I FILL)
Perform Parts D-F
Ref. MSG XXX

CWC-I TRANSFER
Transfer 3 CWC-Is to ISS

TRANSFER OPS
Ref. Middeck Transfer List
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

IENOS OPS (ASSY OPS, PAYLOADS) Step 1.4

DAILY TRANSFER LIST UPDATE

Ref. Transfer List & MSG XXX

P/TV07 MIDDECK PAYLOADS

(PHOTO/TV, SCENES) SETUP Item 5

TAPE OPERATIONS

(MS2)

ISS EVA SYSTEMS: 1.216 EVA PREP
MCC-H performs step 1

ISS EVA SYSTEMS: 1.216 EVA PREP
MCC-H performs step 1

ISS EVA SYSTEMS: 1.225 EMU PREBREATHE
Steps 3, 7, 10 not required
MCC-H performs step 48

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC

Perform CREWLOCK DEPRESS

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC

Perform CREWLOCK DEPRESS

ISS EVA SYS:C-LK DPRS/RPRS CC POST DEPRESS

EGRESS/SETUP

ISS EVA SYS:C-LK DPRS/RPRS CC POST DEPRESS

EGRESS/SETUP

MISSE 7 RETRIEVE

MISSE 7 RETRIEVE

MISSE 8 INSTALL

S3 CETA LIGHT INSTL

NOTES

NO UNISOLATED EXERCISE [EVA CREW ON ELC2 OR OUTBOARD OF SARJ]
DATE: 04/23 (113) MET: Day 003

20:00 - CDR MEAL

21:00 - MEAL

22:00 - P/TV07 EVA (PHOTO/TV, SCENES) OPS

23:00 - TRANSFER OPS

00:00 - MEAL

IVALEAK EVA 1

NOTES: NO Unisolated Exercise [EVA CREW ON ELC2 OROUTBOARD OF SARJ]
STS-134/ULF6 FD05

MS2

ROBERTO

TRANSFER OPS
Ref. Middeck Transfer List

MS3

DREW

MISSE 8 INSTALL

MS4

TAZ

STBD SARJ COVER #7 INSTALL

P3-P4 NH3 JMPR INSTL

P5P6 NH3 JMPR

P6-EAS NH3 JMPR

P4 NH3 JMPR STOW

P3-P4 NH3 JMPR INSTL

P3-P4 MATE

P16A/ J16A MATE

P1-P2 MATE

CLEANUP

P16A/ J16A MATE

FLUID QD TOOL BAG RECONFIG

NOTES

NO UNISOLATEDEXERCISE [EVA CREW ON ELC2 OR OUTBOARD OF SARJ]
ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
Perform CREWLOCK REPRESS

ISS EVA SYSTEMS: 1,240 POST EVA
With H2O RECHARGE
Steps 37, 39, 66 not required
MCC-H will perform Steps 43, 67-68
Ref. STS-134 CONSUMABLES TRACKING CC

ILLUMINATOR OPS (CC,TV) ILLUMINATORS ON-A,D
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

L9 PS AUD A/G 1,2 (two) - OFF
PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
**TRANSFER OPS**
Ref. Middeck Transfer List

**TRANSFER BRIEF PREP**
Coordinate with transfer counterparts

**TRANSFER BRIEF**
Call down status to MCC

**CGBA STATUS CHK; GLACIER STATUS CHK (CC)**

**PRE-SLEEP ACTIVITY**
(ORB OPS, CREW SYS)

**FLUID QD TOOL BAG RECONFIG**

**CLEANUP/INGRESS**

**MS2**
ROBERTO

**MS3**
DREW

**MS4**
TAZ

**FLUID QD TOOL BAG RECONFIG**

**CLEANUP/INGRESS**

**ISS EVA SYS: C-LK DPRS/RPRS CC PRE REPRESS**

**ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC**
Perform CREWLOCK REPRESS

**ISS EVA SYSTEMS: 1.240 POST EVA**
With H2O RECHARGE
Steps 37, 39, 66 not required
MCC-H will perform Steps 43, 67-68
Ref. STS-134 CONSUMABLES TRACKING CC

**PRE-SLEEP ACTIVITY**
(ORB OPS, CREW SYS)

**CLEANUP**

**L9 PS AUD A/G 1,2 (two) - OFF**

**POST EVA TAGUP**
Private Conference via A/G 2

**PRE-SLEEP ACTIVITY**
(ORB OPS, CREW SYS)
CREW WAKE AT 04/12:30
CREW WAKE AT 04/12:30

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
FD06 EZ ACTIVITIES:
- OCAC FILTER
- MDDK DUCT SCREEN
- HARD REBOOT: STS-2 (WINDECOM), STS-3 (KFX) & STS-4 (RPOP)

POST-SLEEP ACTIVITY
ORB OPS, CREW SYS

SLEEP LOGBOOK (ORB OPS, SDBI)

POST-SLEEP ACTIVITY
ORB OPS, CREW SYS

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 15:07-15:33
NODE 2: Mark/Taz/Ron/Cady

ROBO: 1.310 OBSS UNBERTH AND HANDOFF TO SRMS
Steps 1-3

POST-SLEEP ACTIVITY
ORB OPS, CREW SYS

EXERCISE

UPLINK
β21+Mask
Box 40, 41
MS2: ROBERTO

L17 Check MCIU filter screen
ILLUMINATOR OPS (CC,TV) ILLUMINATORS OFF-ALL
TDRS ~ D/N ORB72737475

MS3: DREW

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

MS4: TAZ

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

POST-SLEEP ACTIVITY
ORB OPS, CREW SYS

EVA CREW: TAKE 1 ASPIRIN (325mg)

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

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 15:07-15:33
NODE 2: Mark/Taz/Ron/Cady

POST-SLEEP ACTIVITY
ORB OPS, CREW SYS

EXERCISE CONSTRAINT

IINOS OPS (ASSY OPS, PAYLOADS) Step 1.4
CGBA STATUS CHK; GLACIER STATUS CHK (CC)
ILLUMINATOR OPS (CC,TV) ILLUMINATORS OFF-ALL

OBSS HANDOFF TO SRMS - MNVR TO PRE-GRAPPLE
(PDRS, OBSS HANDOFF)

OBSS HANDOFF TO SRMS - STBD MRL RELEASE
(PDRS, OBSS HANDOFF) EXERCISE CONSTRAINT
STS-134/ULF6 FD06

**POST-SLEEP ACTIVITY**

- (ORB OPS, CREW SYS)

---

**OBSS HANDOFF TO SRMS - OBSS GRAPPLE**

**OBSS HANDOFF TO SRMS - OBSS GRAPPLE**

**EMU SWAP FOR EVA 2**

(EVA, AIRLOCK CONFIG)

Ref. STS-134 CONSUMABLES TRACKING CC
Ref. STS-134 NOMINAL EMU SIZING
(EVA, EMU CONTINGENCY PROCS)

---

**ISS EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP**

---

**EVA 2 TOOL CONFIGURATION**

(EVA, TIMELINES)

Ref. CONSUMABLES TRACKING CUE CARD
Ref. MSG XXX

---

**EVA 2 TOOL CONFIGURATION**

(EVA, TIMELINES)

Ref. CONSUMABLES TRACKING CUE CARD
Ref. MSG XXX

---

**PUBLIC AFFAIRS EVENT**

ISS KU AVAIL: 19:50-20:31
Columbus: Roberto/Paolo

---

**MEAL**

---

**MEAL**

---

**MEAL**

---

**NOTES**

---
Use A/G2 for audio

Inform MCC which PGSC will be used

---

Private Family Conference
KU TDRX (XX:XX-XX:XX)
OFF DUTY

---

Private Family Conference
KU TDRX (XX:XX-XX:XX)
OFF DUTY

---

Private Family Conference
KU TDRX (XX:XX-XX:XX)
OFF DUTY

---

Private Family Conference
KU TDRX (XX:XX-XX:XX)
OFF DUTY

---

L9 PAVLOAD STATION A/G (two) - OFF
NETMEETING VIDEO CONFERENCE (ORB OPS, PGSC)
Use A/G2 for audio
Inform MCC which PGSC will be used
**NOTES**

- L9 PAYLOAD STATION A/G (two) - OFF
- NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)
- Use A/G2 for audio
- Inform MCC which PGSC will be used

---

**PUBLIC AFFAIRS EVENT**

**ISS KU AVAIL:** 19:50-20:31

**Columbus:** Roberto/Paolo

---

**Private Family Conference**

**KU TDRX (XX:XX-XX:XX)**

---

**MS2**

**ROBERTO**

---

**MS3**

**DREW**

---

**MS4**

**TAZ**

---

**Day 004**
MS2
ROBERTO

OFF DUTY

EVA 2 PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
Ref. MSG XXX

MS3
DREW

OFF DUTY

EVA 2 PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
Ref. MSG XXX

MS4
TAZ

OFF DUTY

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

ISS EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT
MASK PREBREATHE
MCC-H performs steps 1, 19

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
Crew wake at 05/12:30
Crew wake at 05/12:30
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STS-134/ULF6 FD07

Date: 04/25 (115)

Day 005

12:00

MS2
ROBERTO
SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ISS EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H performs steps 1-4, 16-20, 23

13:00

MS3
DREW
SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ISS EVA SYSTEMS: 1.216 EVA PREP
MCC-H performs step 1

14:00

MS4
TAZ
SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ISS EVA SYSTEMS: 1.220 EMU PURGE
MCC-H performs steps 6 and 12

15:00

IENOS OPS (ASSY OPS, PAYLOADS) Step 1.4
CGBA STATUS CHK; GLACIER STATUS CHK (CC)

17 Check MCIU filter screen

DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG XXX

16:00

P/TV07 EVA
(PHOTO/TV, SCENES)
SETUP

ISS EVA SYSTEMS: 1.220 EMU PURGE
MCC-H performs steps 6 and 12

EXERCISE
ISS EVA SYSTEMS: 1.225 EMU PREBREATHE
Steps 3, 7, 10 not required
MCC-H performs step 48

ISS EVA SYSTEMS: CREWLOCK
Depress/Repress CC
Perform CREWLOCK DEPRESS

CWC-I FILL #9 See pg. 3-68
(ORB OPS, CWC-I FILL)
Perform Parts D & E
Ref. MSG XXX

CWC-I TRANSFER
Transfer 3 CWC-Is to ISS
(ORB OPS, CWC-I FILL)
Perform Parts D & E, Ref. MSG XXX

IMU STAR OF OPPORTUNITY ALIGN (ORB OPS, GNC)
Perform CREWLOCK DEPRESS
TRANSFER OPS
Ref. Middeck Transfer List

ISS EVA SYSTEMS: CREWLOCK DPRS/RPRS CC
POST DEPRESS

EGRESS/SETUP

P3-P4 REROUTE

NO UNTISOLATED EXERCISE [EVA CREW OUTSIDE OF SARJ]

ATA TO FILL

PSARJ - REMOVE COVERS

PSARJ - 1ST LUBE

PSARJ - MEAL

NOTES
CREW WAKE AT 06/12:00

ISS EVA SYSTEMS: CREWLOCK
DEPRESS/REPRESS CC
Perform CREWLOCK REPRESS
Steps 37, 39, 66 not required
MCC-H will perform Steps 43, 67-68
Ref. STS-134 CONSUMABLES TRACKING CC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

L9 PS AUD A/G 1,2 (two) - OFF
POST EVA TAGUP
Private Conference via A/G 2

PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 06/12:00

ROBERTO DREW TAZ

ISS EVA SYSTEMS: CREWLOCK
Depress/Repress CC
Perform CREWLOCK Repress

ISS EVA SYSTEMS: 1.240 Post EVA
With H2O recharge
Steps 37, 39, 66 not required
MCC-H will perform steps 43, 67-68
Ref. STS-134 Consumables Tracking CC

TRANSFER OPS
Ref. Middeck Transfer List

TRANSFER BRIEF PREP
Coordinate with transfer counterparts

TRANSFER BRIEF
Call down status to MCC

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

POST EVA TAGUP
Private Conference via A/G 2

PRE-SLEEP ACTIVITY
(ORB Ops, Crew Sys)

L9 PS AUD A/G 1,2 (two) - OFF
L9 PS AUD A/G 1,2 (two) - OFF
POST EVA TAGUP
Private Conference via A/G 2
Private Conference via A/G 2
PRE-SLEEP ACTIVITY
(ORB Ops, Crew Sys)
PRE-SLEEP ACTIVITY
(ORB Ops, Crew Sys)
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Day 006
**FD08 EZ ACTIVITIES:**

- OCAC FILTER
- MDDK DUCT SCREEN
- HARD REBOOT: STS-2 (WINDECOM), STS-3 (KFX) & STS-4 (RPOP)

**POST-SLEEP ACTIVITY**

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<td>15:00</td>
<td>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</td>
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**SUPPLY/WASTE WATER DUMP**

- Init Supply Dump, Ref. MSG XXX
- Term Supply Dump, Ref. MSG XXX

**EVA CREW: TAKE 1 ASPIRIN (325mg)**

**CWC OVERBOARD DUMP**

- Init: (ORB OPS, ECLS) Ref. MSG XXX
- Term: (ORB OPS, ECLS) Ref. MSG XXX

**IMU STAR OF OPPORTUNITY ALIGN**

**PUBLIC AFFAIRS EVENT**

- ISS KU AVAIL: 15:48-16:25

**NOTES**

- MCC will TMBU SM Limits
- N2 REPRESS INIT A
- POST-SLEEP ACTIVITY (ORB OPS, SDBI)
- SLEEP LOGBOOK (ORB OPS, SDBI)
- ISS EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
- EVA CREW: TAKE 1 ASPIRIN (325mg)
- EVA CREW: TAKE 1 ASPIRIN (325mg)
- EVA CREW: TAKE 1 ASPIRIN (325mg)
- EVA CREW: TAKE 1 ASPIRIN (325mg)
**SLEEP LOGBOOK (ORB OPS, SDBI)**

**POST-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)

**EVA CREW: TAKE 1 ASPIRIN (325mg)**

**SLEEP LOGBOOK (ORB OPS, SDBI)**
- (ORB OPS, CREW SYS)

**ISS EVA SYSTEMS: 1.515 EMU**

**METOX/LIOH/BATTERY REPLACEMENT**

Ref: STS-134 CONSUMABLES TRACKING CC

**ISS EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP**

**POST-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)

**IENOS OPS (ASSY OPS, PAYLOADS) Step 1.4**

**CGBA STATUS CHK; GLACIER STATUS CHK (CC)**

**L17 Check MCIU filter screen**

**EVA 3 TOOL CONFIGURATION**
- (EVA, TIMELINES)
- Ref. CONSUMABLES TRACKING CUE CARD
- Ref. MSG XXX

**PUBLIC AFFAIRS EVENT**

ISS KU AVAIL: 15:48-16:25

NODE 2: Mark/Box/Taz
PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 15:48-16:25
NODE 2: Mark/Box/Taz
FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)
Inspect filters and clean as necessary

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 17:24-18:03
NODE 2: Mark/Spanky/Taz

EVA 3 TOOL CONFIGURATION
(EVA, TIMELINES)
Ref. CONSUMABLES TRACKING CUE CARD
Ref. MSG XXX

N2 REPRESS USING PAYLOAD N2 VLVS
(ORB OPS, ECLS) Steps 8-13
MCC will TMBU SM Limits
EVA 3 TOOL CONFIGURATION  
Ref. CONSUMABLES TRACKING CUE CARD  
Ref. MSG XXX

PUBLIC AFFAIRS EVENT  
ISS KU AVAIL: 15:48-16:25  
NODE 2: Mark/Box/Taz

PUBLIC AFFAIRS EVENT  
ISS KU AVAIL: 17:24-18:03  
NODE 2: Mark/Spanky/Taz
CREW WAKE AT 07/11:30

MARK BOX SPANKY
CREW WAKE AT 07/11:30
FD09 E2 ACTIVITIES:

√ OCAC FILTER
√ MDDK DUCT SCREEN
HARD REBOOT: STS-2(WINDECOM), STS-3(KFX) & STS-4(RPOP)
SLEEP LOGBOOK (ORB OPS, SDBI)  POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)  POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

L9 PS AUD A/G 1,2 (two) - OFF
PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2

ISS EVA SYSTEMS: 1.220 EMU PURGE
MCC-H Performs Steps 6 and 12

ISS EVA SYSTEMS: 2.325 ISLE EVA PREP
MCC-H Performs Steps 1, 22.8.4 - 22.8.6

ISS EVA SYSTEMS: 2.330 ISLE EMU PREBREATHE
(WITH DATA COLLECTION)
Skip Steps 8, 11 and 15
MCC-H Performs Step 52

EVA 3 INHIBIT PAD
(A7 WIRELESS VID HTR - ON)

CWC-I FILL #12
(ORB OPS, CWC-I FILL)
Perform Parts D & E
Ref. MSG XXX

CWC-I FILL #13
(ORB OPS, CWC-I FILL)
Perform Parts D & E
Ref. MSG XXX

CWC-I FILL #14
(ORB OPS, CWC-I FILL)
Perform Parts D-F
Ref. MSG XXX

CWC-I TRANSFER
Transfer 3 CWC-Is to ISS

ISS EVA SYSTEMS: 2.330 ISLE EMU PREBREATHE
(WITH DATA COLLECTION)
Skip Steps 8, 11 and 16
MCC-H Performs Step 52

NOTES
POST-SLEEP ACTIVITY
ORB OPS, CREW SYS

ROBERTO DREW TAZ
STS-134/ULF6 FD

04/27 (117) Day 007

MS2

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

ISS EVA SYSTEMS:
1. 220 EMU PURGE
MCC-H performs steps 6 and 12

2. 325 ISLE EVA PREP
MCC-H performs steps 1, 22.8.4 - 22.8.6

3. 330 ISLE EMU PREBREATHE (WITH DATA COLLECTION)
Skip steps 8, 11, and 15

MS3

L17 Check MCIU filter screen

ISS EVA SYSTEMS:
1. 210 EMU PURGE
MCC-H performs steps 6 and 12

2. 220 EMU PREBREATHE
MCC-H performs steps 1, 22.8.2 - 22.8.6

3. 325 ISLE EVA PREP
MCC-H performs step 1

4. 330 ISLE EMU PREBREATHE
MCC-H performs step 1

MS4

POST-SLEEP ACTIVITY
ORB OPS, CREW SYS

L17 Check MCIU filter screen

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**NOTES**

- ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
- ISS EVA SYSTEMS: 2.3 30 ISLE EMU PREBREATHE
- MCC-H Performs Step 52
- Skip Steps 8, 11 and 15
- VSC INSTALL
- FGB Y-JMPR CH 1/4
STS-134/ULF6 FD09

Date 04/27 (117) Day 007

20:00
- P/TV07 EVA (PHOTO/TV, SCENES) OPS
- FGB Y-JMPR CH 1/4

21:00
- P/TV09 MIDDECK PAYLOADS (PHOTO/TV, SCENES)
- Setups, OPS Item 1
- Ref. Middeck Transfer List

22:00
- ISS EVA SYS: C-LK DPRS/RPRS CC PRE REPRESS
- 1553 DATA CABLE INST

23:00
- ISS EVA SYS: C-LK DPRS/RPRS CC PRE REPRESS
- FGB Y-JMPR CH 2/3

00:00
- ISS EVA SYS: C-LK DPRS/RPRS CC PRE REPRESS
- GET AHEAD

- ISS EVA SYS: CREWLOCK DEPRESS/REPRESS CC
- CLEANUP/INGRESS

- ISS EVA SYS: CREWLOCK DEPRESS/REPRESS CC
- Perform CREWLOCK REPRESSION

NOTES
CREW WAKE AT 08/11:30

WCS COMPACTOR OPS (DUAL-VANE)
(ORB OPS, CUE CARD)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ISS EVA SYSTEMS: 1.240 POST EVA
Without H2O RECHARGE
Skip Steps 37-39, 51, 66
MCC-H will perform Steps 43, 67-68

L9 PS AUD A/G 1,2 (two) - OFF
POST EVA TAGUP
Private Conference via A/G 2
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

L9 PS AUD A/G 1,2 (two) - OFF
PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 08/11:30

ROBERTO DREW TAZ

ISS EVA SYSTEMS: CREWLOCK
DEPRESS/REPRESS CC
Perform CREWLOCK REPRESS

Glacier Transfer
KU TDRW (23:56-00:30)

TRANSFER BRIEF PREP
Coordinate with transfer counterparts

TRANSFER BRIEF
Call down status to MCC

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST EVA TAGUP
Private Conference via A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

L9 PS AUD A/G 1,2 (two) - OFF

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

L9 PS AUD A/G 1,2 (two) - OFF

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MCC-H will perform Steps 43, 67-68
FD10 EZ ACTIVITIES:
- OCAC FILTER
- MDDK DUCT SCREEN
- HARD REBOOT: STS-2(WINDECOM), STS-3(KFX) & STS-4(RPOP)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
EVA CREW: TAKE 1 ASPIRIN (325mg)
ROBERTO DREW TAZ

04/28 (118) 04/28 (118)

MS2: SLEEP
MS3: SLEEP
MS4: SLEEP

EVA CREW: TAKE 1 ASPIRIN (325mg)

POST-SLEEP ACTIVITY
SLEEP LOGBOOK
A N2 REPRESS USING PAYLOAD N2 VLVS
(ORB OPS, ECLS) Steps 1, 3-7
MCC will TMBU SM Limits

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)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

IMU STAR OF OPPORTUNITY ALIGN
(ORB OPS, GNC)

N2 REPRESS INIT

TRANSFER OPS
Ref. Middeck Transfer List
**POST-SLEEP ACTIVITY**
(ORB OPS, CREW SYS)

- **CGBA STATUS CHK**; **GLACIER STATUS CHK** (CC)

- **OBSS DOCKED LDRI RCC SURVEY - STBD**
  R1: Box, R2: Drew, R3: Spanky

- **L17 Check MCIU filter screen**

**SHUTTLE/ISS H2O CNTR FILL**
(ORB OPS, ECLS)
Perform EQUIP PREP and WATER TRANSFER HOSE PURGE

**SHUTTLE/ISS H2O CNTR FILL**
(ORB OPS, ECLS) Init Fill #1
Ref MSG XXX

**EXERCISE**
STS-134/ULF6 FD10

**GMT**

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**Transfer Ops**

Ref. Middeck Transfer List

- OBSS Docked LDRI RCC Survey - STBD
  - R1: Box, R2: Drew, R3: Spanky
- OBSS Docked LDRI RCC Survey - STBD
  - R1: Box, R2: Drew, R3: Spanky

**Public Affairs Event**

- ISS KU Avail: 17:44-18:16
- Node 2: Mark/Cady

**Shuttle/ISS H2O CNTR Fill**

- V (ORB Ops, ECLS) Init Fill #2
  - Ref. MSG XXX
- V Ref MSG XXX

**Meal**

**Meal**

**EMU Swap for EVA 4**

- EVA, Airlock Config
- Ref. STS-134 Consumables Tracking CC

**ISS EVA Systems: 1.5 EMU**

- Metox/Ligh/Battery Replacement
- Ref. STS-134 Consumables Tracking CC

**Illuminator Ops**

(CC, TV) Illuminators Off-All

**Illuminator Ops** (CC, TV) Illuminators Off-All

**CWC Transfer**

- Transfer 2 CWCs to ISS

**NOTES**
STNS-134/ULF6 FD10

Date: 04/28 (118)

16:00
EXERCISE

SHUTTLE/ISS H2O CNTR FILL
(ORB OPS, ECLS)
Perform FILL TERMINATION

17:00

OBSS DOCKED LDRI RCC SURVEY - STBD
(PDRS, LATE INSPECTION)
R1: Box, R2: Drew, R3: Spanky

18:00

OBSS DOCKED LDRI RCC SURVEY - NOSE CAP
(PDRS, LATE INSPECTION)
R1: Drew, R2: Taz, R3: Roberto

OBSS DOCKED LDRI RCC SURVEY - PORT
(PDRS, LATE INSPECTION)
R1: Taz, R2: Roberto, R3: Box

19:00

EMU SWAP FOR EVA 4
(EVA, AIRLOCK CONFIG)
Ref. STS-134 CONSUMABLES TRACKING CC
R1: Taz, R2: Roberto, R3: Box

ISS EVA SYSTEMS: 1.515 EMU
METOX/LIOH/BATTERY REPLACEMENT
Ref: STS-134 CONSUMABLES TRACKING CC

20:00
MEAL
MARK BOX SPANKY

B N2 REPRESS USING PAYLOAD N2 VLVS
(ORB OPS, ECLS) Steps 8-13
MCC will TMBU SM Limits

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 19:51-20:29
NODE 2: Mark

N2 REPRESS TERM B

ISS EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 21:31-22:09
NODE 2: Mark/Box/Drew/Ron

SPINAL ELONGATION OPERATOR PROCEDURE
(ASY OPS, PAYLOADS)

TRANSFER BRIEF PREP
Coordinate with transfer counterparts

TRANSFER BRIEF
Call down status to MCC

EVA 4 PROCEDURE REVIEW
Ref. EVA 4 BRIEFING CARD
(EVA, TIMELINES)
Ref. MSG XXX

EVA 4 TOOL CONFIGURATION
(EVA, TIMELINES)
Ref. CONSUMABLES TRACKING CUE CARD
Ref. MSG XXX
**Crew Wake at 09/11:30**

- **CREW WAKE AT 09/11:30**
- **UPLINK β**
- **MARK BOX SPANKY**
- **UPLINK**
  - β
  - 21
  - Mask
  - Box 40, 41, 48

**NOTES**

- **NO EXERCISE [REBOOST]**
- **EVA 4 PROCEDURE REVIEW**
  - Ref. EVA 4 BRIEFING CARD
  - (EVA, TIMELINES)
  - Ref. MSG XXX

**ISS EVA SYSTEMS:**
- 1.206
- 10.2 PSIA CAMPUS
- MASK PREBREATHE

- **MCC-H** performs steps 1, 19

**PRE-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)

- **H/O ATT CNTRL CMG TA TO ORB:**
  - √
  - MCC for DAP

- **MCC-H** performs steps 1, 19

- **DAP RECONFIG**
  - E

- **EXERCISE CONSTRAINT**
  - PRE-SLEEP ACTIVITY
  - (ORB OPS, CREW SYS)

- **When ISS is GO for deadband collapse, DAP:**
  - B13

- **L9 PS AUD A/G 1, 2 (two) - OFF**

- **PRIVATE MEDICAL CONFERENCE**
  - Private Conference via A/G 2

- **ISS EVA SYSTEMS:**
  - 1.206
  - 10.2 PSIA CAMPUS
  - MASK PREBREATHE

- **MCC-H** performs steps 1, 19

- **When ISS is GO for attitude control, DAP:**
  - FREE
  - DAP A12/FREE/VERN
  - Reload DAP B12
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<td>EVA 4 PROCEDURE REVIEW&lt;br&gt;Ref. EVA 4 BRIEFING CARD (EVA, TIMELINES)&lt;br&gt;Ref. MSG XXX</td>
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**NOTES**

- ISS EVA SYSTEMS: 1.206 10.2 PSIA CAMPOLI MASK PREBREATHE
- MCC-H performs steps 1, 19

**PRE-SLEEP ACTIVITY**
- ORB OPS, CREW SYS
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**Notes:**
- UPLINK
- Box 40, 41, 49
- B2I+Mask
- 3-112
FD11 EZ ACTIVITIES:
- OCAC FILTER
- MDDK DUCT SCREEN

HARD REBOOT: STS-2(WINDECOM), STS-3(KFX) & STS-4(RPOP)

POST-SLEEP ACTIVITY
- MYCO BODY SAMPLE COLLECTION (ASSY OPS, P/L)

At step 6.1, hand Myco Kit to FE-5 or FE-6 for MELFI insertion
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ISS EVA SYSTEMS: 1.211 HYGIENE BREAK
Perform steps 21-22, 24-25
MCC-H performs step 23

ISS EVA SYSTEMS: 1.216 EVA PREP
MCC-H performs step 1

ISS EVA SYSTEMS: 1.220 EMU PURGE
MCC-H performs steps 6 and 12

ISS EVA SYSTEMS: 1.225 EMU PREBREATHE
Steps 3, 7, 10 not required
MCC-H performs step 48

ISS EVA SYSTEMS: CREWLOCK
DEPRESS/REPRESS CC
Perform CREWLOCK DEPRESS

EVA 4 INHIBIT PAD
(EVA, TIMELINES)
A7 WIRELESS VID HTR - ON

PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2

NOTES
**POST-SLEEP ACTIVITY**

(ORB OPS, CREW SYS)

1. DAILY TRANSFER LIST UPDATE
   - Ref. Transfer List & MSG XXX
   - P/TV07 EVA
     - (PHOTO/TV, SCENES)
     - SETUP

2. ISS EVA SYSTEMS: 1.216 EVA PREP
   - MCC-H performs step 1

3. ISS EVA SYSTEMS: 1.220 EMU PURGE
   - MCC-H performs steps 6 and 12

4. ISS EVA SYSTEMS: 1.225 EMU PREBREATHE
   - Steps 3, 7, 10 not required
   - MCC-H performs step 48

5. ISS EVA SYSTEMS: CREWLOCK
   - DEPRESS/REPRESS CC
   - Perform CREWLOCK DEPRESS

---

**NOTES**
IST EVA SYSTEMS: CREWLOCK
DEPRESS/REPRESS CC
Perform CREWLOCK DEPRESS

ISS EVA SYSTEMS: CREWLOCK
DEPRESS/REPRESS CC
Perform CREWLOCK DEPRESS

CSS: 1.111 CUPOLA CREW RESTRAINT OPS
Step 5
Perform CREWLOCK DEPRESS

ROBO: 1.610 SSRMS EVA SUPPORT
- OBSS HANDOFF AND STOW ON S1
Steps 1-4
EXERCISE CONSTRAINT

ROBO: 1.620 SSRMS EVA SUPPORT
- OBSS GF SWAP
P6 PDGF RETRIEVE

CSS: 1.111 CUPOLA CREW RESTRAINT OPS
Step 5

IMU STAR OF OPPORTUNITY ALIGN (ORB OPS, GNC)

P/TV07 EVA
(PHOTO/TV, SCENES)

FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)

Inspect filters and clean as necessary

NO EXERCISE [OBSS DOUBLE GRAPPLED THRU H/O TO STOW POSITION]

NO UNISOLATED EXERCISE [CREW OUTBOARD OF SARJ FOR P6 PDGF RETRIEVE]

NOTES
**STS-134/ULF6 FD11**

**Date:** 04/29 (119)

**Time:** 04/29 (119)

**Day:** 009

**MS2:** ROBERTO

**MS3:** DREW

**MS4:** TAZ

### NOTES

- **ISS EVA SYSTEMS:** CREWLOCK DEPRESS/REPRESS CC
  - Perform CREWLOCK DEPRESS
- **ISS EVA SYSTEMS:** POST DEPRESS
  - EGRESS/SETUP
- **OBSS STOW**
- **P6 PDGF RETRIEVE**
- **OBSS EFGF/PDFG SWAP**
- **NO EXERCISE**
  - [OBSS DOUBLE GRAPPLING H/O TO STOW POSITION]
- **NO UNISOLATED EXERCISE**
  - [CREW OUTBOARD OF SARJ FOR P6 PDGF RETRIEVE]

**EXERCISE CONSTRAINT**

**TRANSFER OPS**
- Ref. Middeck Transfer List

**OBSS UNGRAPPLE FOR STOW**
- (PDGRS, OBSS HANDOFF)
  - EXERCISE CONSTRAINT

**EXERCISE**

**MEAL**

**IVA SUPPORT EVA 4**

**16:00 - 18:00**

- 16:00
  - EXERCISE
  - OBSS UNGRAPPLE FOR STOW (PDGRS, OBSS HANDOFF)
  - EXERCISE CONSTRAINT
  - TRANSFER OPS
  - Ref. Middeck Transfer List
- 17:00
  - OBSS STOW
- 18:00
  - IVA SUPPORT EVA 4
  - MEAL
- 19:00
  - P6 PDGF RETRIEVE
  - OBSS EFGF/PDFG SWAP
**STS-134/ULF6 FD11**

**SHUTTLE/ISS H2O CNTR FILL**
- (ORB OPS, ECLS) Init Fill #4
- Ref MSG XXX

**N2 REPRESS TERM**
- [B] N2 REPRESS USING PAYLOAD N2 VLVS
- (ORB OPS, ECLS) Steps 8-13
- MCC will TMBU SM Limits

**OCAC PWR**
- [C] OCAC PWR - OFF
- C5 DIRECT O2 vlvl - OP
- OCAC PWR - ON

**UPLINK**
- UPLINK $\beta$+Mask Box 40,41,45

**CDR**
- CDR P/TV07 EVA (PHOTO/TV, SCENES) OPS

**ISS EVA SYSTEMS**
- 1.240 POST EVA
- With H2O RECHARGE
- Steps 37, 39, 66 not required
- MCC-H will perform Steps 43, 67-68
- Ref. STS-134 CONSUMABLES TRACKING CC

**POST OBS TRANSFER PWRDN**
- Ref. STS-134 CONSUMABLES TRACKING CC

**CLEANUP/INGRESS**
- ELC3 SPDM ARM RLS
- NO UNISOLATED EXERCISE [SPDM EDF RELEASE]

**NOTES**
- CLAP/MEAL
- TRANSFER OPS
- Ref. Middeck Transfer List
- OBSS EFGF/PDFG SWAP
- STOW EFGF IN TSA
- JOINT OPS: 3.123 O2 TRANSFER SETUP (POST PREBREATHE USING SHUTTLE O2)
- POST OBSS TRANSFER PWRDN (PDRS, OBSS HANDOFF)
**NOTES**

- **TRANSFER OPS**
  - Ref. Middeck Transfer List

- **MS2**
  - ROBERTO

- **MS3**
  - DREW

- **MS4**
  - TAZ

**TRANSFER BRIEF PREP**
- Coordinate with transfer counterparts

**TRANSFER BRIEF**
- Call down status to MCC

- **TRANSFER BRIEF**
  - Pre-Sleep Activity
    - ORB Ops, Crew Sys

- **POST OBSS TRANSFER PHRON**
  - (PDRS, OBSS Handoff)

- **ISS EVA SYSTEMS:**
  - 1.240 POST EVA
    - With H2O Recharge
    - Steps 37, 39, 66 not required
    - MCC-H will perform Steps 43, 67-68
    - Ref. STS-134 Consumables Tracking CC

- **OBSS EFGF/PDFG Swap**

- **OTP Inspect**

- **IVA SUPPORT EVA 4**

- **ELC3 SPDM Arm RLS**

- **HPGT FRGF MLI Install**

- **CLEANUP/INGRESS**

- **ISS EVA SYSTEMS:**
  - Crewlock
  - Depress/Repress CC
  - Perform Crewlock Repress

- **ISS EVA SYSTEMS:**
  - 1.240 Pre Repress

- **UNISOLATED EXERCISE**
  - SPDM EDF Release

- **NO**

---

**Date**
- 04/29 (119)

**MET**
- Day 009

**GMT**
- 20:00 21:00 22:00 23:00 00:00
CreW WAKE AT 10/11:00

ISS EVa SYSTEMS: 1.240 POST EVa
With H2O RECHARGE
Steps 37, 39, 66 not required
MCC-H will perform Steps 43, 67-68
Ref. STS-134 CONSUMABLES TRACKING CC

JOINT OPS: 3.123 O2 TRANSFER SETUP (POST EVa See pg. 3-120 PREBREATHE USING SHUTTLE O2)

PRE-SLEEP ACTIVITY
(ORB Ops, CREW SYS)

JOINT OPS: 3.116 HIGH PRESSURE TANK O2 XFER Step 2

ILLUMINATOR OPS (CC,TV) ILLUMINATORS ON-A,D

PRE-SLEEP ACTIVITY
(ORB Ops, CREW SYS)

L9 PS AUD A/G 1,2 (two) - OFF
POST EVa TAGUP
Private Conference via A/G 2

PRE-SLEEP ACTIVITY
(ORB Ops, CREW SYS)

L9 PS AUD A/G 1,2 (two) - OFF
PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2

PRE-SLEEP ACTIVITY
(ORB Ops, CREW SYS)

NOTES
CREW WAKE AT 10/11:00

POST EVA See pg. 3-121
### FD12 EZ Activities:

- VOCAC Filter
- MDDK Duct Screen
- Hard Reboot: STS-2 (WINDECOM), STS-3 (KFX), STS-4 (RPOP)

### Time Schedule

- **08:00**:
  - CDR Mark
  - Hard Reboot: STS-2, STS-3, STS-4
- **09:00**:
  - PLT Box
  - SLEEP
  - EVA Crew: Take 1 Aspirin (325mg)
- **10:00**:
  - MS1 Spanky
  - SLEEP Logbook (ORB Ops, CREW SYS)
- **11:00**:
  - POST-SLEEP Activity (ORB Ops, CREW SYS)
  - POST-SLEEP Activity (ORB Ops, CREW SYS)
  - POST-SLEEP Activity (ORB Ops, CREW SYS)
- **12:00**:
  - SLEEP
  - POST-SLEEP Activity (ORB Ops, CREW SYS)
  - SLEEP Logbook (ORB Ops, SDBI)
EVA CREW: TAKE 1 ASPIRIN (325mg)
STS-134/ULF6 FD12

16:00
- PWR TRANSFER
  Transfer 1 PWR to ISS

17:00
- MEAL
- MEAL
- MEAL

18:00
- CREW CONFERENCE
  ISS KU AVAIL: 17:27-18:07
  NODE 2: All Crew

19:00
- CREW PHOTO
- CREW PHOTO
- CREW PHOTO

19:00
- O2 REPRESS INIT A
- OCAC PWR - OFF
- C5 DIRECT O2 vlv - OP
- FACE IN SPACE DOWNLINK (Node 2: Mark)
  ISS KU AVAIL: 19:06-19:44

NOTES
CREW WAKE AT 11/10:30

L9 PS AUD A/G 1,2 (two) - OFF
PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NOTES
CREW WAKE AT 11/10:30

ROBERTO DREW TAZ
## STS-134/ULF6 FD12

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**Day 011**

**TDRS**

**ORB177178179180**

**BIAS -XLV -ZVV**

**ATT**

**CDR**

**SLEEP**

**PLT**

**SLEEP**

**MS1**

**SLEEP**

**NOTES**
FD13 E2 ACTIVITIES:
OCAC FILTER
HARD REBOOT: STS-2(WINDECOM), STS-3(KFX) & STS-4(RPOP)
HUM SEPS FOR H2O ACCUMULATION
**UNDOCKING/SEPARATION TIMELINE (RNDZ, UNDOCK/SEP T/L)**

- **12:00**
  - POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
  - IMU STAR OF OPPORTUNITY ALIGN (ORB OPS, GNC)
  - GPS PWRUP (ORB OPS, GNC) Perform for GPS 1,3

- **13:00**
  - MNVR (TRK) UNDOCK
  - GPS PWRUP (ORB OPS, GNC) Perform for GPS 1,3
  - POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

- **14:00**
  - L17 Check MCIU filter screen

- **15:00**
  - SEP/FLYAROUND

- **16:00**
  - NOTE: 
    - A15 OPCU 1,2 CONV (two) - OFF
    - R1 MN BUS TIE B,C (two) - OFF (tb-OFF)
    - SSPTS OPCU DEACT
    - IMU STAR OF OPPORTUNITY ALIGN (ORB OPS, GNC)
    - GPS PWRUP (ORB OPS, GNC) Perform for GPS 1,3
**RE-RENDEZVOUS TIMELINE**

- **MS2:** Roberto
  - SSV OUTRATE: 3
  - DEACTIVATION
  - P/TV03 UNDOCK
  - PHOTO/TV, SCENES
  - MEAL

- **MS3:** Drew
  - MEAL

- **MS4:** Taz
  - MEAL
STS-134/ULF6 FD13

**NOTES**

- **RMS PWRDN (PDRS, RMS PWRDN)**
  Steps 3, 5-7

- **DECK: 6.106 SSOR DEACTIVATION**

- **WLES DOCK/UNDOCK RECOVERY (ORB OPS, WLES)**
  Configure PGSCs per usage chart

- **POST UNDOCK PGSC CONFIG**

- **MS1 SPANKY**
  Configure PGSCs per usage chart

- **20:00**
  - **SUPPLY/WASTE WATER DUMP**
    (ORB OPS, ECLS)
    - Initiate Supply/Waste Dump
    - Ref. MSG XXX
  - **CDR BOX**
  - **MARK**
  - **PLT BOX**
  - **MS1 BOX**
  - **NOTES**

- **21:00**
  - **HEATER RECONFIG-CFG B** (ORB OPS, EPS)
  - **RCS REGULATOR RECONFIG** (ORB OPS, RCS)
  - **CABIN TEMP CONTROLLER RECNFG - Z(I)** (ORB OPS, ECLS)
  - **SUPPLY/WASTE WATER DUMP**
    (ORB OPS, ECLS)
    - Terminate Supply/Waste Dump
    - Ref. MSG XXX
  - **MNVR (IMK) - ZLV - XVV**
    TG=2 BV=3 OM=0
    AI/AUTO/VERN Init TRK
  - **EXERCISE**
  - **MEAL**

- **22:00**
  - **MNVR (IMK) - ZLV - XVV**
  - **EXERCISE**
  - **RMS PWRDN (PDRS, RMS PWRDN)**
  - **DIGITAL VIA VTR**
    (CUE CARD, DIGITAL PLAYBACK)
    Undocking
    KU TDRE (22:47-23:42)
  - **OCA RATE RECONFIG (48Mbps) [B]**

- **23:00**
  - **PRE-SLEEP ACTIVITY**
    (ORB OPS, CREW SYS)
  - **EXERCISE**
  - **MEAL**

- **00:00**
  - **PRE-SLEEP ACTIVITY**
    (ORB OPS, CREW SYS)
  - **RECONFIG OCA DOWNLINK RATE (48Mbps)**
    (ORB OPS, PGSC) Part C, Omit step 4

**MARK BOX SPANKY**

- **SUPPLY/WASTE WATER DUMP**
  (ORB OPS, ECLS)
  - Initiate Supply/Waste Dump
  - Ref. MSG XXX

**DATE**

- **05/01 (121)**

- **TIME**

- **GMT**

- **MET**

- **TD R S D O A**

- **Z E R N**

- **ATT**

- **MARK**

- **PLT BOX**

- **MS1 SPANKY**
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
00:00
06 √UHF MODE - OFF
L9 PS AUD A/G 1,2 (two) - OFF
PRIVATE MEDICAL CONFERENCE, via A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CREW WAKE AT 12/10:00
Crew wake at 12/10:00

Pre-sleep activity (ORB ops, Crew sys)

Sleep
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Date: 05/02 (122)

Day 012
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### FD14 EZ ACTIVITIES:
- OCAC FILTER
- FLUID LOADING PREP
- Fill drink containers per MSG XXX
- HARD REBOOT: STS-2(WINDECOM), STS-3(KFX) & STS-4(RPOP)
- POST-SLEEP ACTIVITY
  - HUM SEPS FOR H2O ACCUMULATION
- POST-SLEEP ACTIVITY
  - (ORB OPS, CREW SYS)

### FD14 CABIN STOW ACTIVITIES:
- Remove loose items stored in A/L
- Perform MS Seat Installation
- Perform FLIGHTS WITH RETENTION NET
  - (REF DATA, ENTRY STOW)

### POST-SLEEP ACTIVITY
- (ORB OPS, CREW SYS)

### W/B STEAM VENT HTR ACT
- R2 BLR CNTLR/HTR(three) -B
- PWR (three) -ON
**RECONFIGURE OCA DOWNLINK RATE (2 Mbps)**

(ORB OPS, PGSC) Part D then A, Omit step 4

**HD DIGITAL CC DLNLK**

(PHOTO/TV, CANON G1)
**STS-134/ULF6 FD14**

- **Date:** 05/02 (Day 122)
- **Time:** 16:00 - 20:00
- **Columns:**
  - CDR MARK BOX SPANKY
  - PLT BOX SPANKY
  - MS1

**16:00**
- MEAL
- PUBLIC AFFAIRS EVENT
  - KU AVAIL: 17:02-17:30
  - FD: All Crew
- NLP TERMINATION
  - (ASSY OPS, PAYLOADS) Terminate GAP 1 only
  - TG=2 BV=3 OM=270
  - AI/AUTO/VERN Init TRK
- SUPPLY/WASTE WATER DUMP
  - (ORB OPS, ECLS)
  - Initiate Waste Dump, Ref. MSG XXX
- MNVR (TRK) BIAS -ZLV +YVV (DUMP)
  - (ORB OPS, ECLS)
  - Perform DUMP INITIATION using FES PRI A
- LANDING-1 COMM C/O
  - (ORB OPS, COMM/INST)
  - MLA ADS 18:34-18:42
- EXERCISE
  - CABIN CONFIG/STOW

**17:00**
- MEAL
- PUBLIC AFFAIRS EVENT
  - KU AVAIL: 17:02-17:30
  - FD: All Crew
- EXERCISE

**18:00**
- SUPPLY/WASTE WATER DUMP
  - (ORB OPS, ECLS)
  - Terminate Waste Dump, Ref. MSG XXX
- MNVR (TRK) BIAS -ZLV +YVV (DUMP)
  - (ORB OPS, ECLS)
  - Perform DUMP INITIATION using FES PRI A
- CWC OVERBOARD DUMP (Init)
  - (ORB OPS, ECLS)
  - Perform Parts A-D, Ref. MSG XXX

**19:00**
- EXERCISE
- SUPPLY/WASTE WATER DUMP
  - (ORB OPS, ECLS)
  - Terminate Waste Dump, Ref. MSG XXX
- CWC OVERBOARD DUMP (Init)
  - (ORB OPS, ECLS)
  - Perform Parts A-D, Ref. MSG XXX

**20:00**
- CABIN CONFIG/STOW
<table>
<thead>
<tr>
<th>Time</th>
<th>MS2</th>
<th>MS3</th>
<th>MS4</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00</td>
<td>MEAL</td>
<td>MEAL</td>
<td>MEAL</td>
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<tr>
<td>17:00</td>
<td>PUBLIC AFFAIRS EVENT</td>
<td>PUBLIC AFFAIRS EVENT</td>
<td>PUBLIC AFFAIRS EVENT</td>
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</tr>
<tr>
<td>18:00</td>
<td>OCA RATE RECONFIG (48Mbps)</td>
<td>ENTRY VIDEO SETUP (PHOTO/TV, REFERENCED PROCEDURES)</td>
<td></td>
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</tr>
<tr>
<td>19:00</td>
<td>CABIN CONFIG/STOW</td>
<td>CABIN CONFIG/STOW</td>
<td>CABIN CONFIG/STOW</td>
<td></td>
</tr>
</tbody>
</table>

C RECONFIGURE OCA DOWNLINK RATE (48Mbps) (ORB OPS, PGSC) Part C, Omit step 4
Minimize use of P/TV equipment
Dim cabin lighting to 25%

SUPPLY WATER DUMP USING FES
(ORB OPS, ECLS)
Perform DUMP TERMINATION
MCC for FES PRI A
Crew wake at 13/09:30

ROBERTO DREW TAZ

STS-134/ULF6 FD

00:0001:0002:0003:0004:00

Date
05/02(122)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SLEEP

NOTES
**FD15 EZ ACTIVITIES:**
√OCAC FILTER
Stow CSA-CP

**NOTES**
MS2
ROBERTO
SLEEP
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)

MS3
DREW
SLEEP
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)

MS4
TAZ
SLEEP
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)

Stow remaining P/TV equipment
**GO TO DEORBIT PREP AT 13/12:35**

**AIR SAMPLE**
- Rcd MET and location on bottle
- Bottle located in MF430

**IMU ALIGN**
- See below
- (ORB OPS, CREW SYS)

**POST-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)

**DOFF ACTIWATCH**
- (ORB OPS, SDBI)

**POST-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)

**IMU ALIGN**
- MNVR IMU STAR ALIGN ATT (A) (pg. 3-166)
- AI/AUTO/VERN (13/11:50), Init MNVR
- IMU ALING - S TRK (ORB OPS, GNC)

**MNVR IMU VERIF ATT**
- (B) (pg. 3-166)
- AI/AUTO/VERN Init MNVR
- IMU ALING - S TRK (ORB OPS, GNC)

**DATE**
- 05/03 (123)

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

**W E Z**
- TDRS
- D/N
- IMU
- COMM

**Day 013**
- A
- CDR
- ATT
- BLT BOX
- MS1
- SPANKY

**NOTES**

**LOAD**
- A
- B

**CDR**
- MNVR (TRK) - XSI ATT
- TG=4  BV=5  Y=35  OM=270
- A1/AUTO/VERN (13/12:23), Init TRK

**POST-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)

**DOFF ACTIWATCH**
- (ORB OPS, SDBI)

**POST-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)

**STARS**
- TDRS
- D/N
- IMU
- COMM

**TDA**
- CDR
- ATT
- BLT BOX
- MS1
- SPANKY

**NOTES**

**LOAD**
- A
- B

**CDR**
- MNVR (TRK) - XSI ATT
- TG=4  BV=5  Y=35  OM=270
- A1/AUTO/VERN (13/12:23), Init TRK

**POST-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)

**DOFF ACTIWATCH**
- (ORB OPS, SDBI)

**POST-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)
GO TO DEORBIT PREP AT 13/12:35
**A** IMU STAR ALIGN PAD

ID: -Y: 36 KAUS AUSTRALIS  
MET (13/11:51 TO 13/12:40)

ID: -Z: 50 AVIOR  
MET (13/11:47 TO 13/12:42)

ANG DIFF: 83.0

DUAL S TRKR  2nd ATTITUDE  
ALIGNMENT (SINGLE S TRKR)

<p>| | | | |</p>
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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>R 29</td>
<td>R 306</td>
<td>119</td>
<td></td>
</tr>
<tr>
<td>P 20</td>
<td>P 340</td>
<td>39</td>
<td></td>
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<tr>
<td>Y 5</td>
<td>Y 349</td>
<td>344</td>
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</tr>
</tbody>
</table>

REQD ID:

- Y: ____, - Z: ____, ANG ERR ____,____ ____

ANG:        1              2              3

∆X  ( )__, __  ( )__, __  ( )__, __
∆Y  ( )__, __  ( )__, __  ( )__, __
∆Z  ( )__, __  ( )__, __  ( )__, __

EXECUTION TIME: ___/___:___:___ MET

**B** IMU VERIFICATION STAR ALIGN PAD

ID: -Y: 60 ENIF  
MET (13/12:05 TO 13/12:56)

ID: -Z: 16 ACHERNAR  
MET (13/12:05 TO 13/12:54)

ANG DIFF: 82.2

DUAL S TRKR  2nd ATTITUDE  
ALIGNMENT (SINGLE S TRKR)

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>R 19</td>
<td>R 308</td>
<td>97</td>
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<tr>
<td>P 322</td>
<td>P 303</td>
<td>330</td>
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<tr>
<td>Y 42</td>
<td>Y 43</td>
<td>55</td>
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</table>

REQD ID:

- Y: ____, - Z: ____, ANG ERR ____,____ ____

ANG:        1              2              3

∆X  ( )__, __  ( )__, __  ( )__, __
∆Y  ( )__, __  ( )__, __  ( )__, __
∆Z  ( )__, __  ( )__, __  ( )__, __

EXECUTION TIME: ___/___:___:___ MET
FLIGHT PLAN

STS 134