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
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Lyndon B. Johnson Space Center
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MISSION OPERATIONS DIRECTORATE

FLIGHT PLAN
STS-134

FINAL
March 18, 2011

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Incorporates the following:

482#: FLT PLN-02174

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**FLIGHT PLAN**  
STS-134  

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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
### STS-134/ULF-6 Overview Timeline (14+1+2)


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**Notes:**

- ^KSC Landing (13/17:39)
- ^MT Translate from WS7 to WS2
- ^MT Translate to WS5
- ^2SRMS Walkoff to M00 FD02
- ^EVA Support, Transfer, ARCG Cable Install
- ^Dock (1/21:14)
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- ORB ATT
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*DOCKING 1/21:14 (111/21:03 GMT)*

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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:**
- 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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**NOTES**

[A] NO EXERCISE [AMS UNBERTH]
[B] NO EXERCISE [DOUBLE GRAPPLE]
[C] NO EXERCISE [AMS INSTALL]
[D] NO UNISOLATED EXERCISE [1ST THRU 3RD STAGE CAPTURE]
[E] NO UNISOLATED EXERCISE [UMA MATING]
### FD04

**CDR**
- **MARK**
  - STS 02 P/B CONFIG
  - PRE EVA
  - EVA PROC
  - RVW
  - PRE SLEEP
  - PMC
  - OCA
  - PRE SLEEP
  - MASK
  - PB/TOOL CONFIG
  - PRE SLEEP

**PLT**
- **BOX**
  - PRE EVA
  - EVA PROC
  - RVW
  - PRE SLEEP
  - SLEEP

**MS1 SPANKY**
- EVA TOOL
- PRE EVA
- EVA PROC
- RVW
- PRE SLEEP
- SLEEP

**MS2 ROBERTO**
- MDDK XFER
- PRE EVA
- EVA PROC
- RVW
- PRE SLEEP
- SLEEP

**MS3 DREW**
- EVA TOOL
- PRE EVA
- EVA PROC
- RVW
- PRE SLEEP
- SLEEP

**MS4 TAZ**
- EVA TOOL
- PRE EVA
- EVA PROC
- RVW
- PRE SLEEP
- SLEEP

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**ISS Airlock Campout at 10.2 PSI**

- **NO EXERCISE**
- **DAY/NIGHT**
  - 49
  - 50
  - 51
  - 52
  - 53
  - 54
  - 55
  - 56

**ORBIT**
- NO UNISOLATED EX [F]

**TDRS**
- W
  - E
  - Z

**ISS TDRS AVAILABLE**
- BIAS -XLV -ZVV

**ORB ATT**
- [F] NO UNISOLATED EXERCISE [MT XLATE]

**NOTES**
- *ACT 2
- PRE SLEEP
- #STATUS CHECK
FD05

ISS CDR
DIMA

SLEEP  POST SLEEP  DPC  PW  PFC  TVIS  VELO  MEAL

FE-1
ALEXANDER

SLEEP  POST SLEEP  DPC  PW  PFC  VELO  TVIS  MEAL

FE-2
ANDREY

SLEEP  POST SLEEP  DPC  PW  PFC  MEAL  VELO  TVIS

ISS

FE-3
RON

SLEEP  POST SLEEP  HYG  BRK/  HATCH  CEVIS  TVIS  ARCU CBL INST  MEAL

FE-5
PAOLO

SLEEP  POST SLEEP  HYG  BRK/  HATCH  EMU  PREBREATHE  C  LK  DPRS  ARED  MEAL

FE-6
CODY

SLEEP  POST SLEEP  DPC  PW  T2  ARCU CBL INST  MEAL  BLB-MS  SP-RMVL  ARED

TDRS  AVAIL

NO EXERCISE

NO UNISOL EXER [A]

ISS

DAY/NIGHT

15  16  17  18  19  20  21  22  23  00

ORBIT

3229  3230  3231  3232  3233  3234  3235  3236

[A] NO UNISOLATED EXERCISE [EVA CREW ON ELC2 OR OUTBOARD OF SARJ]
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- ISS TDRS Avail
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- **SLEEP**
- **POST SLEEP**
- **PAO EVENT**
- **POST SLEEP**
- **N2 XFER**
- **TERM**
- **EXERCISE**
- **MEAL**
- **OFF DUTY**
- **PFC OCA**

**PLT Box**
- **SLEEP**
- **POST SLEEP**
- **OBSS GRPL**
- **UNGRP H/O**
- **PAO EVENT**
- **EVA TOOL CONFIG**
- **MEAL**
- **OFF DUTY**
- **PFC OCA**

**MS1 Spanky**
- **SLEEP**
- **POST SLEEP**
- **EXERCISE**
- **OBSS H/O**
- **EVA TOOL CONFIG**
- **MEAL**
- **OFF DUTY**

**MS2 Roberto**
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- **POST SLEEP**
- **OBSS H/O**
- **EXERCISE**
- **MEAL**
- **OFF DUTY**

**MS3 Drew**
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- **EVA TOOL CONFIG**
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- **POST SLEEP**
- **PAO EVENT**
- **POST SLEEP**
- **OBSS H/O**
- **OBSS H/O**
- **EVA TOOL CONFIG**
- **MEAL**
- **OFF DUTY**

**NO EXERCISE**
- **DAY/NIGHT**
- **OFF DUTY**
- **OFF DUTY**
- **OFF DUTY**

**NOTES**
- [A] NO EXERCISE [DOUBLE GRAPPLE]
- *FILTER CK*
- @STATUS CHECK
- #STATUS CHECK

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[A] NO EXERCISE [DOUBLE GRAPPLE]
ISS Airlock Campout at 10.2 PSI

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- **OFF DUTY**: Not Working
- **PRE SLEEP**: Preparing for Sleep
- **EXERCISE**: Physical Activity
- **SLEEP**: Sleeping

**NOTES**

- #STATUS CHECK

**ORB ATT**

- **BIAS**: BIAS
- **XLV**: XLV
- **ZVV**: ZVV

**TDRS AVAIL**

- **81**: Available
- **83**: Available
- **85**: Available
- **87**: Available

**ORBIT**

- **10.2 DPRS**: 10.2 PSI

**ISS**

- **97/01/12**: ISS
**FD06**

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**NO EXERCISE**

**ISS DAILY ORBIT**

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- [A] NO UNISOL EXERCISE [EVA CREW OUTSIDE OF SARJ]
- [B] NO UNISOL EXERCISE [APFR FOR SPDM LEE LUBE]
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- @STATUS CHECK
- *FILTER CK
- #STATUS CHECK

**ISS TDRS AVAIL**

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### Flight Log

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- **CDR MARK**: POST SLEEP, PNC A/G, ISLE EVA PREP, ISLE EMU PREBREATHE, C_LK DPRS, P/TV07 EVA, MEAL, P/TV07 EVA

**PLT BOX**
- **POST SLEEP**: MDDK XFER, EXERCISE, MEAL, P/TV07 EVA

**MS1 SPANKY**
- **POST SLEEP**: ISLE EVA PREP, ISLE EMU PREBREATHE, C_LK DPRS, MDDK XFER, EGRS SETUP, RETRIEVE PAMA/PDGF, FIBN/PDGF, VIC CST L, FGB Y-JMPR CH 1/4, 1553 DATA CABLE INST, FGB Y-JMPR CH 2/3, GET AHEAD, MDDK XFER

**MS2 ROBERTO**
- **POST SLEEP**: EXERCISE, MDDK XFER, MEAL, GLACIER TRANSFER, MDDK XFER

**MS3 DREW**
- **POST SLEEP**: ISLE EVA PREP, ISLE EMU PREBREATHE, C_LK DPRS, MDDK XFER, EGRS SETUP, RETRIEVE PAMA/PDGF, FIBN/PDGF, VIC CST L, FGB Y-JMPR CH 1/4, 1553 DATA CABLE INST, FGB Y-JMPR CH 2/3, PDP DHR GSO FFT R0 FGB

**MS4 TAZ**
- **POST SLEEP**: EXERCISE, EVA 3 IVA SUPPORT

**NO EXERCISE**
- **DAY/NIGHT**: 120, 121, 122, 123, 124, 125, 126, 127

**TDRS**
- **N**: ORB ATT

**ISS TDRS AVAIL**
- **E**

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- FILTER CK
- FLT PLN/134/FIN
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- ORBIT
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C_LK RPRS *D/L
ISS Airlock Campout at 10.2 PSI

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- [B] NO UNISOLATED EXERCISE [CREW OUTBOARD OF SARJ FOR P6 PDGF RETRIEVE]
- [C] NO UNISOLATED EXERCISE [SPDM EDF RELEASE]
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- FD12: No

**FE-2**
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- FD12: No

**FE-3**
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- FD11: Paolo
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**NOTES:**
- *CREW CHOICE*
- *STATUS CHECK*
- *POUCH CLOSE*
- *FILTER CK*
- *NOMINAL CONFIG*
- *RNDZ TOOLS C/O*
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<td>FE-6 Cady</td>
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**ISS CREW**

**POST**

**PW**

**DPC**

**CONF**

**MEAL**

**TVIS**

**DCB ULF6 PACK**

**EVA CAMR**

**T2**

**ARED**

**FW AE REL**

**PEO**

**Notes:**

*CREW CHOICE

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**ISS CDR DIMA**
- **PRE SLEEP-ISS**
- **POST SLEEP**

**FE-1 ALEXANDER**
- **PRE SLEEP-ISS**
- **POST SLEEP**

**FE-2 ANDREY**
- **PRE SLEEP-ISS**
- **POST SLEEP**

**FE-3 RON**
- **PRE SLEEP-ISS**
- **POST SLEEP**

**FE-5 PAOLO**
- **PRE SLEEP-ISS**
- **POST SLEEP**

**FE-6 CADY**
- **PRE SLEEP-ISS**
- **POST SLEEP**

**TDRS AVAIL**
- **DAILY ORBIT**

**NOTES**
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| **NOTES**         |                   |
|                   | *UNDOCK 11/14:21  |
|                   |                   |
|                   | *UNDK/FLYAROUND/SEP|
|                   | STORRM            |
|                   | -ZLV +YVV         |
|                   |                   |
|                   | *POST SLEEP       |
|                   | *PWUP            |
|                   | *STOW            |
|                   | *PWDRN           |
|                   | *RECONFIG        |
|                   | *STATUS CHECK    |
|                   | *FILTER CK       |
|                   |                   |
|                   | *PREP RCMP      |
|                   | *DOWNLINK RATE   |

| **ISS**           | **TORS**          |
|                   | **AVAIL**         |
|                   | UNDOCK/FLYAROUND/SEP|
|                   | STORRM            |
|                   | -ZLV +YVV         |
|                   |                   |

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<th>183 184 185 186 187 188 189 190</th>
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</table>
*UNDOCK 11/14:21
**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
- ELEVON PARK, GNC 201 (ORB OPS, GNC)
- OCAC SETUP (ORB OPS, CREW SYS)
- AFT CONTROLLER C/O (ORB OPS, GNC)
- ON-ORBIT OMS BURN (ORB OPS, OMS)
- MNVR (TRK) -ZLV -XVV
  - TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK
- PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN)
  - Steps 2,5,6 (Single G2) & 12 (IMU 2)
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<td>IMU STAR OF OPPORTUNITY ALIGN (ORB OPS, GNC)</td>
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<td>CGBA MUFFLER INSTALL Unstow from LiOH Box</td>
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<td>RMS PWRDN (PDRS, RMS PWRDN) Step 1</td>
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<td>V 9 PS AUD A/G 1, 2 (two) - OFF</td>
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<td>PRIVATE MEDICAL CONFERENCE, via A/G 2</td>
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CREW WAKE AT 00/15:00

P/TV01 VIDEO SETUP
(VIDEO/TV, SCENES)

RMS CHECKOUT
(PDRS, RMS C/O)

AMS ACT
See page 3-3

ASCENT
AMS

ROBERTO TAZ

MS2 MS3 MS4

ST5/134/ULF6 FD01

Ku Ch

04/20 (110) 04/00 05/00 06/00 07/00 08/00

W E Z

TDRS

D/N

ATT

ORBIT3456

D/N

ORB

TV

NOTES

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, POSC)

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)

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

DON ACTIWATCH (ORB OPS, SDBI)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

DON ACTIWATCH (ORB OPS, SDBI)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
**FD02 EZ ACTIVITIES:**
- OCAC FILTER
- 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)
- HUM SEPS FOR H2O ACCUMULATION
### STS-134/ULF6 FD02

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**Notes:**
- SLEEP LOGBOOK (ORB OPS, SDBI)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SLEEP LOGBOOK (ORB OPS, SDBI)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
STS-134/ULF6 FD02

**Date:** 04/20 (110)

**Ku Ch**

**Time:**
- 16:00
- 17:00
- 18:00
- 19:00
- 20:00

**Activities:***
- **POST-SLEEP ACTIVITY** (ORB OPS, CREW SYS)
  - OBSS UNBERTH (PDRS, OBSS OPERATIONS)
    - For "APCU Power" at end of Step 2:
      - A15: APCU 2 OUTPUT - OFF
    - R1: Roberto, R2: Spanky
- **POST-SLEEP ACTIVITY** (ORB OPS, CREW SYS)
  - OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)
    - R1: Spanky, R2: Box, R3: Drew
- **POST-SLEEP ACTIVITY** (ORB OPS, CREW SYS)
  - MIDDECK TRANSFER PREP
    - Ref. MSG XXX
  - PGSC ACT
    - PGSC HARD DISK LATE UPDATE
    - (ORB OPS, PGSC)
    - Set up any remaining PGSCs
  - CYCLE ERGOMETER OPS
    - (ORB OPS, CREW SYS)
    - Perform ERGOMETER SETUP
  - P/TV09 MIDDECK PAYLOADS
    - (PHOTO/TV, SCENES) Item 7 Video
    - MIDDECK TRANSFER PREP
      - Ref. MSG XXX
  - CUBE LAB MODULE-8 ACT (ASSY OPS, PAYLOADS)
  - CUBE LAB MODULE-7 ACTIVATION (ASSY OPS, PAYLOADS)
  - CUBE LAB MODULER-CRYSTALLIZATION (ASSY OPS, PAYLOADS)
  - MEAL
**STS-134/ULF6 FD02**

**GMT**

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**D R S W E Z N B**

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**Ku Ch**

**W E Z**

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<td>(PDRS, OBSS OPERATIONS)</td>
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<tr>
<td>R1: Spanky, R2: Box, R3: Drew</td>
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</tbody>
</table>

**OBSS LDRI/IDC RCC SURVEY - NOSE**

| (PDRS, OBSS OPERATIONS)         |
| R1: Drew, R2: Taz, R3: Drew    |

**OBSS LDRI/IDC RCC SURVEY - PORT**

| (PDRS, OBSS OPERATIONS)         |
| R1: Box, R2: Roberto, R3: Taz  |

**OBSS LDRI/IDC RCC SURVEY - NOSE**

| (PDRS, OBSS OPERATIONS)         |
| R1: Drew, R2: Taz, R3: Drew    |

**OBSS LDRI/IDC RCC SURVEY - PORT**

| (PDRS, OBSS OPERATIONS)         |
| R1: Box, R2: Roberto, R3: Taz  |

**EMU CHECKOUT**

| (EVA, CHECKOUTS)                 |

**EMU CHECKOUT PREP**

| (EVA, AIRLOCK CONFIG)            |

**MIDDECK TRANSFER PREP**

| Ref. MSG XXX                     |

**MEAL**

| OCA | 2 |

| LDRI | 3 |

**NOTES**
DOCKING MECHANISM INITIALIZATION
DOCKING MECHANISM POWERUP
DOCKING RING EXTENSION
DOCKING MECHANISM POWERDOWN

C/L CAMR INSTALL
(PHOTO/TV, C/L CAMR)

STORM PGSC SETUP & ACTIVATION
(RNDZ, RNDZ STORM)

After RNDZ TOOLS C/O Step 3 complete, perform
STORM TOOLS CHECKOUT
(RNDZ, RNDZ STORM)

OCA RECONFIG - 48 Mbps
(ORB OPS, PGSC) Part C, Omit step 4
L12 Ku BAND RATE - HI
CREW WAKE AT 01/14:00
STS-134/ULF6 FD02

Date 04/21(111)

Day 001

GMT 08:00 09:00 10:00 11:00

Ku Ch 2 3

MS2 ROBERTO

MS3 DREW

MS4 TAZ

NOTES

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

SLEEP
SLEEP
SLEEP

2 AMS
3 OCA

FLY PLN/134/FIN
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)

NOTES
RECONFIGURE OCA DOWNLINK RATE (4 Mbps) ORB OPS, PGSC Part D then B, Omit step 4

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

RECONFIGURE OCA DOWNLINK RATE (4 Mbps) A

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

EMU REMOVAL

NOTE NO ARED/T2 EXERCISE [ISS MNVR]
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:00</td>
<td>Rendezvous Timeline - Approach (CUE Card)</td>
</tr>
<tr>
<td>21:14</td>
<td>Docking 1/21:14</td>
</tr>
<tr>
<td>21:14</td>
<td>Return to Flight Plan</td>
</tr>
<tr>
<td>22:00</td>
<td>Joint Ops: 6.109 Hardline ICOM Audio</td>
</tr>
<tr>
<td></td>
<td>Steps 1, 5 &amp; 6</td>
</tr>
<tr>
<td>22:00</td>
<td>Joint Ops: 12.100 Shuttle Crew</td>
</tr>
<tr>
<td></td>
<td>Safety Briefing</td>
</tr>
<tr>
<td>23:00</td>
<td>Joint Ops: 12.100 Shuttle Crew</td>
</tr>
<tr>
<td></td>
<td>Welcome</td>
</tr>
<tr>
<td>00:00</td>
<td>Joint Ops: 12.100 Shuttle Crew</td>
</tr>
<tr>
<td></td>
<td>Safety Briefing</td>
</tr>
</tbody>
</table>

**NOTES**
- On MCC GO:
  - A15 OPCU 1,2 V-ADJ (two) - CMD
  - Conv (two) - ON
  - R1 MN BUS TIE B - ON (tb-ON)
  - C - ON (tb-ON)

**RENDZVOUS TIMELINE**

- MNVR (TRK) BIAS -XLV -ZVV
- P/TV02 Dock (Photo/TV, Scenes)
- SSPTS ODS Connector Verif
- A15 ODS MATE X1,X2(two) - ON
- MCC then - OFF

**UPLINK**

- TFL 199
- Box 30,40
- Box 40,41
- Box 30,40

**JOIN OPS**

- 6.109 Hardline ICOM Audio
- 12.100 Shuttle Crew
- Safety Briefing
- Welcome
DOCKING 1/21:14  RETURN TO FLIGHT PLAN

POST RNDZ PGSC CONFIG
Configure PGSCs per usage chart

P/TV04 INGRESS/Egress
(SCREEN/TV, SCENES)
Setup

MS2 APPROACH (CUE CARD)

MS3 APPROACH (CUE CARD)

MS4 APPROACH (CUE CARD)

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
(SCREEN/TV, SCENES)
OPS

NOTES

J OINT OPS: 12.100 SHUTTLE CREW
SAFETY BRIEFING
Roberto/Paolo

JOINT OPS: 12.100 SHUTTLE CREW
SAFETY BRIEFING
Drew/Cady

JOINT OPS: 12.100 SHUTTLE CREW
SAFETY BRIEFING
Taz/Alexander

NO ARED/T2 EXERCISE
[DOCKING]

NO ARED/T2 EXERCISE
[ISS MNVR]

NO EXERCISE
[DEADBAND COLLAPSE]
I RECONFIGURE OCA DOWNLINK RATE (2 Mbps) [ORB OPS, CREW SYS] Part A, Omit step 4

NOTES

NO EXERCISE [ELC UNBERTH TO SRMS AT HOVER POS'N]

NO EXERCISE [DOUBLE GRAPPLE]

NO EXERCISE [MNVR TO INSTALL POS'N THRU 1ST STAGE CAPTURE]

NO UNISOL EXERCISE [1ST-2ND STAGE CAPTURE]
CREW WAKE AT 02/14:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EXERCISE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

SLEEP

SLEEP
STS-134/ULF6 FD03

Date 04/22 (112) 08:00 09:00 10:00 11:00 12:00 MET Day 002

Ku Ch

NOTES

MS2 ROBERTO

SLEEP

NO UNISOLATED EXERCISE [MT XLate]
**FD04 EZ ACTIVITIES:**

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

**NOTES**

NO UNISOLATED EXERCISE [MT XLATE]

UPLINK

β21+ Mask Box 40, 41, 43

EXERCISE
NO UNISOLATED EXERCISE [MT X-LATE]

ROBERTO TAZ

MS2

MS3

SLEEP

MS4

SLEEP

POST-SLEEP ACTIVITY

ORB OPS, CREW SYS

SLEEP LOGBOOK

ORB OPS, SDBI

ORB414243

BIAS - XLV - ZVV

NOTES
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Crew Member(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00</td>
<td>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</td>
<td>ROBERTO, ROBERTO</td>
</tr>
<tr>
<td>17:00</td>
<td>Li7 Check MCIU filter screen</td>
<td>ROBERTO, ROBERTO</td>
</tr>
<tr>
<td>17:00</td>
<td>AMS GRAPPLE (PDRS, AMS NOMINAL)</td>
<td>ROBERTO, ROBERTO</td>
</tr>
<tr>
<td>18:00</td>
<td>AMS UNBERTH AND HANDOFF (PDRS, AMS NOMINAL)</td>
<td>ROBERTO, ROBERTO</td>
</tr>
<tr>
<td>19:00</td>
<td>AMS UNGRAPPLE AND VIEWING (PDRS, AMS NOMINAL)</td>
<td>ROBERTO, ROBERTO</td>
</tr>
<tr>
<td>19:00</td>
<td>IENS OPERATIONS (ASSY OPS, PAYLOADS)</td>
<td>ROBERTO, ROBERTO</td>
</tr>
<tr>
<td>20:00</td>
<td>TRANSFER OPS Ref. Middeck Transfer List</td>
<td>ROBERTO, ROBERTO</td>
</tr>
</tbody>
</table>
STS-134/ULF6 FD04

- **CDR MARK BOX SPANKY**
- **PLT MEAL EXERCISE**
- **MS1 SPANKY**
- **NOTES**

**20:00**
- **NLP TERMINATION** (ASSY OPS, PAYLOADS)
- **Terminate Vaccine GAPs A-P**
- **EXERCISE CONSTRAINT**
- **CGBA ADJUST SET TEMP** (ASSY OPS, PAYLOADS)
- **SSV OUTRATE - 2**
- **ROBO: 1.210 AMS HANDOFF AND INSTALL Step 8.6**
- **ISS EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP**

**21:00**
- **MEAL**

**22:00**
- **PUBLIC AFFAIRS EVENT**
  - **ISS KU AVAIL:** 22:06-22:45
  - **NODE 2: Mark/Box/Spandy/Taz/Ron**

**23:00**
- **MEAL**
- **EXERCISE**

**00:00**
- **JOINT OPS: 3.128 O2 XFER TO HI P AND LO P TANKS; Step-3**
- **ROBO: 1.220 AMS RELEASE AND MANEUVER TO MT TRANSLATION CONFIG**
- **EVA 1 TOOL CONFIGURATION**
  - **(EVA, TIMELINES)**
  - **(EVA, TOOLS AND STOWAGE)**

**04/22**
- **Date**
- **002**

**Day 002**
- **W E Z**
- **TDRS**
- **D/N**
- **ORB46474849**
- **ATT**
- **BIAS -XLV -ZVV**

**00**
- **UNISOLATED EXERCISE [1ST THRU 3RD STAGE CAPTURE]**

**TFL 184**

**AMS PGSC DEACT** (ASSY OPS, PAYLOADS)
- **Steps 11-14**

**S&W: 1.911 PAS NORMAL MATE**
- **Steps 15-17**

**1.104 SET UP ORBITER SSC** (ASSY OPS, ACT & L/O)

**JOINT OPS: 3.128 O2 XFER TO HI P AND LO P TANKS**
- **Step 3**

**CGBA ADJUST SET TEMP** (ASSY OPS, PAYLOADS)
- **Steps 11-14**

**AM**: **3.128 O2 XFER TO HI P AND LO P TANKS**

**RIO**: **1.220 AMS RELEASE AND MANEUVER TO MT TRANSLATION CONFIG**

**EVA 1 TOOL CONFIGURATION**
- **(EVA, TIMELINES)**
- **(EVA, TOOLS AND STOWAGE)**

**STF 134 CONSUMABLES TRACKING CC**
- **Ref. STS-134 CONSUMABLES TRACKING CC**

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

**AMS PGSC DEACT** (ASSY OPS, PAYLOADS)
- **Steps 11-14**

**S&W: 1.911 PAS NORMAL MATE**
- **Steps 15-17**

**1.104 SET UP ORBITER SSC** (ASSY OPS, ACT & L/O)

**JOINT OPS: 3.128 O2 XFER TO HI P AND LO P TANKS**
- **Step 3**

**CGBA ADJUST SET TEMP** (ASSY OPS, PAYLOADS)
- **Steps 11-14**

**AM**: **3.128 O2 XFER TO HI P AND LO P TANKS**

**RIO**: **1.220 AMS RELEASE AND MANEUVER TO MT TRANSLATION CONFIG**

**EVA 1 TOOL CONFIGURATION**
- **(EVA, TIMELINES)**
- **(EVA, TOOLS AND STOWAGE)**

**STF 134 CONSUMABLES TRACKING CC**
- **Ref. STS-134 CONSUMABLES TRACKING CC**

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

**AMS PGSC DEACT** (ASSY OPS, PAYLOADS)
- **Steps 11-14**

**S&W: 1.911 PAS NORMAL MATE**
- **Steps 15-17**

**1.104 SET UP ORBITER SSC** (ASSY OPS, ACT & L/O)

**JOINT OPS: 3.128 O2 XFER TO HI P AND LO P TANKS**
- **Step 3**

**CGBA ADJUST SET TEMP** (ASSY OPS, PAYLOADS)
- **Steps 11-14**

**AM**: **3.128 O2 XFER TO HI P AND LO P TANKS**

**RIO**: **1.220 AMS RELEASE AND MANEUVER TO MT TRANSLATION CONFIG**

**EVA 1 TOOL CONFIGURATION**
- **(EVA, TIMELINES)**
- **(EVA, TOOLS AND STOWAGE)**

**STF 134 CONSUMABLES TRACKING CC**
- **Ref. STS-134 CONSUMABLES TRACKING CC**

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

**AMS PGSC DEACT** (ASSY OPS, PAYLOADS)
- **Steps 11-14**

**S&W: 1.911 PAS NORMAL MATE**
- **Steps 15-17**

**1.104 SET UP ORBITER SSC** (ASSY OPS, ACT & L/O)

**JOINT OPS: 3.128 O2 XFER TO HI P AND LO P TANKS**
- **Step 3**

**CGBA ADJUST SET TEMP** (ASSY OPS, PAYLOADS)
- **Steps 11-14**

**AM**: **3.128 O2 XFER TO HI P AND LO P TANKS**

**RIO**: **1.220 AMS RELEASE AND MANEUVER TO MT TRANSLATION CONFIG**

**EVA 1 TOOL CONFIGURATION**
- **(EVA, TIMELINES)**
- **(EVA, TOOLS AND STOWAGE)**

**STF 134 CONSUMABLES TRACKING CC**
- **Ref. STS-134 CONSUMABLES TRACKING CC**

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

**AMS PGSC DEACT** (ASSY OPS, PAYLOADS)
- **Steps 11-14**

**S&W: 1.911 PAS NORMAL MATE**
- **Steps 15-17**

**1.104 SET UP ORBITER SSC** (ASSY OPS, ACT & L/O)

**JOINT OPS: 3.128 O2 XFER TO HI P AND LO P TANKS**
- **Step 3**

**CGBA ADJUST SET TEMP** (ASSY OPS, PAYLOADS)
- **Steps 11-14**

**AM**: **3.128 O2 XFER TO HI P AND LO P TANKS**

**RIO**: **1.220 AMS RELEASE AND MANEUVER TO MT TRANSLATION CONFIG**

**EVA 1 TOOL CONFIGURATION**
- **(EVA, TIMELINES)**
- **(EVA, TOOLS AND STOWAGE)**

**STF 134 CONSUMABLES TRACKING CC**
- **Ref. STS-134 CONSUMABLES TRACKING CC**

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

NOTES
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>MS2</th>
<th>MS3</th>
<th>MS4</th>
</tr>
</thead>
<tbody>
<tr>
<td>04:00</td>
<td>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</td>
<td>ISS EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT</td>
<td>ISS EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT</td>
<td>MCC-H performs steps 1, 19</td>
</tr>
<tr>
<td>05:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>06:00</td>
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<tr>
<td>07:00</td>
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</tr>
<tr>
<td>08:00</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**NOTES**

- NO UNISOLATED EXERCISE [MT XLate]
### 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

### ISS EVA SYSTEMS:
- 1.216 EVA PREP
  - MCC-H performs step 1
- 1.211 HYGIENE BREAK
  - Perform steps 21-22, 24-25
    - MCC-H performs step 23
- L9 PS AUD A/G 1,2 (two) - OFF
- PRIVATE MEDICAL CONFERENCE
  - Private Conference via A/G 2
- SLEEP LOGBOOK (ORB OPS, SDBI)

### NOTES
STS-134/ULF6 FD05

Date: 04/23 (113)
Day 003

GMT

TDRS

D/N

ORB575859

NOTES

MS2

ROBERTO

SLEEP

POST-SLEEP ACTIVITY

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

MS3

DREW

SLEEP

POST-SLEEP ACTIVITY

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

MS4

TAZ

SLEEP

POST-SLEEP ACTIVITY

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: 1.216 EVA PREP
MCC-H performs step 1

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

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

TAPE OPERATIONS
(PHOTO/TV, SCENES) SETUP Item 5

EXERCISE

PMV MIDDECK PAYLOADS
(ORB OPS, CWC-I FILL)

Perform Parts D & E
Ref. MSG XXX

IMU STAR OF OPPORTUNITY ALIGN (ORB OPS, GNC)

FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)

Inspect filters and clean as necessary

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA 1 INHIBIT PAD
(EVA, TIMELINES)

A7 WIRELESS VID HTR - ON

P/TV09 MIDDECK PAYLOADS
(ORB OPS, CWC-I FILL)

Perform Parts D & E
Ref. MSG XXX

CWC-I TRANSFER
(ORB OPS, CREW SYS)

Transfer 3 CWC-Is to ISS

FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)

Inspect filters and clean as necessary

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

P/TV07 EVA
(ORB OPS, CWC-I FILL)

Perform Parts D & E
Ref. MSG XXX

CWC-I TRANSFER
(ORB OPS, CWC-I FILL)

Transfer 3 CWC-Is to ISS

TRANSFER OPS
Ref. Middeck Transfer List

LI7 Check MCIU filter screen

L17 Check MCIU filter screen

EXERCISE

NO UNISOLATED EXERCISE
(EVA CREW ON ELC2 OR OUTBOARD OF SARJ)

IVA SUPPORT EVA 1

IVA SUPPORT EVA 1
NOTES

NO UNISOLATED EXERCISE [EVA CREW ON ELC2 OR OUTBOARD OF SARJ]

IVA SUPPORT EVA 1

TRANSFER OPS Ref. Middeck Transfer List

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

TRANSFER OPS Ref. Middeck Transfer List

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

MS1 SPANKY

TRANSFER OPS Ref. Middeck Transfer List

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

MEAL

MEAL

PLT MEAL

TRANSFER OPS Ref. Middeck Transfer List

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

CDR MARK

BLT BOX

ORB

D/N

BIAS -XLV -ZVV

W E Z

Date

04/23 (113)

Day 003

20:00 21:00 22:00 23:00 00:00

MET

04/23 (113)

20:00 21:00 22:00 23:00 00:00

GMT

20:00 21:00 22:00 23:00 00:00

TDRS
STS-134/ULF6 FD05

Date 04/23 (113) 00:00 21:00 22:00 23:00

**MS2 ROBERTO**
- TRANSFER OPS
  - Ref. Middeck Transfer List
  - MISSE 8 INSTALL
  - P3-P4 NH3 JMPR INSTL
  - P5P6 NH3 JMPR
  - P6-EAS NH3 JMPR
  - LAB EWC ANTENNA
  - FLUID QD TOOL BAG RECONFIG

**MS3 DREW**
- S3 CETA LIGHT INSTL
- STBD SARJ COVER #7 INSTALL
- P3-P4 NH3 JMPR INSTL
- P4 NH3 JMPR STOW
- LAB EWC ANTENNA
- P16A/ J16A MATE
- P1-P2 MATE
- CLEANUP

**MS4 TAZ**
- NO UNISOLATED EXERCISE
- [EVA CREW ON ELC2 OR OUTBOARD OF SARJ]

**NOTES**
- NO UNISOLATED EXERCISE
- [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

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRIVATE MEDICAL CONFERENCE
Private Conference via A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
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

ISS EVA SYS: C-LK DPRS/RPRS CC PRE REPRESS
ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
Perform CREWLOCK DEPRESS/REPRESS CC

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)

POST EVA TAGUP
Private Conference via A/G 2

NOTES
CREW WAKE AT 04/12:30
CREW WAKE AT 04/12:30
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

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MDDK OBSS UNBERTH AND HANDOFF TO SRMS
Steps 1-3

EXERCISE
**STSW-134/ULF6 FD06**

**Date:** 04/24 (114)

**Day 004**

- **12:00:**
  - SLEEP
  - SLEEP
  - SLEEP
  - SLEEP
  - Post-Sleep Activity
  - SLEEP
  - EVA Crew: Take 1 aspirin (325mg)
  - Post-Sleep Activity
  - SLEEP
  - Public Affairs Event
  - Post-Sleep Activity
  - Public Affairs Event

- **13:00:**
  - IENOS Ops (ASSY Ops, Payloads) Step 1.4
  - CGBA Status CHK; Glacier Status CHK (CC)
  - Illuminator Ops (CC, TV) Illuminators Off-All
  - L17 Check MCIU filter screen
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - STBD MRL Release
  - OBSS Handoff to SRMS - STBD MRL Release
  - OBSS Handoff to SRMS - STBD MRL Release
  - OBSS Handoff to SRMS - STBD MRL Release
  - OBSS Handoff to SRMS - STBD MRL Release

- **14:00:**
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple

- **15:00:**
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple

- **16:00:**
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple
  - OBSS Handoff to SRMS - MNVR to Pre-Grapple

**NOTES**

- PUBLIC AFFAIRS EVENT
  - ISS KU Avail: 15:07-15:33
  - NODE 2: Mark/Taz/Ron/Cady
  - Post-Sleep Activity
  - Public Affairs Event
  - Post-Sleep Activity
  - Public Affairs Event

**Date/Time:** 04/24 (114) 12:00-16:00
Use A/G2 for audio
Inform MCC which PGSC will be used

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

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

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

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)  
Off Duty

---

**Payload Station A/G (two)**

NetMeeting Video Conferencing

Use A/G2 for audio

Inform MCC which PGSC will be used

---
EVA 2 PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)
Ref. MSG XXX
ISS EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT
MASK PREBREATHE
MCC-H performs steps 1, 19
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
EVA 2 PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)
Ref. MSG XXX

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EXERCISE

ISS EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT
MASK PREBREATHE
MCC-H performs steps 1, 19
CREW WAKE AT 05/12:30
<table>
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<tr>
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<td>W E Z</td>
<td>Day 005</td>
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<tr>
<td>04/25 (115)</td>
<td>04:00 05:00 06:00 07:00 08:00</td>
<td>NOTES</td>
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<tr>
<td>MS2</td>
<td>ROBERTO</td>
<td>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</td>
</tr>
<tr>
<td>MS3</td>
<td>DREW</td>
<td>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</td>
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<td>MS4</td>
<td>TAZ</td>
<td>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</td>
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<tr>
<td>04:00</td>
<td>SLEEP</td>
<td>05:12:30</td>
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<tr>
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<tr>
<td>07:00</td>
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**CREW WAKE AT 05/12:30**
**FD07 EZ ACTIVITIES:**
- OCAC FILTER
- MDDK DUCT SCREEN

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

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

**ISS EVA SYSTEMS:**
- 1.211 HYGIENE BREAK
  - MCC-H performs steps 1-4, 16-20, 23
- 1.216 EVA PREP
  - MCC-H performs step 1
- 1.220 EMU PURGE
  - MCC-H performs steps 6 and 12

**Notes:**
- L9 PS AUD A/G 1,2 (two) - OFF
- PRIVATE MEDICAL CONFERENCE
- A Private Conference via A/G 2
- 5
  - ISS EVA SYSTEMS: 1.211 HYGIENE BREAK
    - MCC-H performs step 23
- 7
  - ISS EVA SYSTEMS: 1.216 EVA PREP
    - MCC-H performs step 1

**EVA 2 INHIBIT PAD**
- (EVA, TIMELINES)
- A7 WIRELESS VID HTR - ON

**CWC-I FILL**
- #9
  - Perform Parts D & E
  - Ref. MSG XXX

**SLEEP**
- POST-SLEEP ACTIVITY
  - ORB OPS, CREW SYS
  - ORB OPS, CREW SYS
  - ORB OPS, SDBI
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<td>ISS EVA SYSTEMS: 1.225 EMU PREBREATHE</td>
<td>MCC-H performs step 48</td>
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<td>17:00</td>
<td>ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC</td>
<td>Perform CREWLOCK DEPRESS</td>
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<tr>
<td>17:00</td>
<td>IMU STAR OF OPPORTUNITY ALIGN (ORB OPS, GNC)</td>
<td>Transfer 3 CWC-Is to ISS</td>
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<tr>
<td>18:00</td>
<td>P/TV07 EVA (PHOTO/TV, SCENES)</td>
<td>Ref. Middeck Transfer List</td>
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<td>ISS EVA SYSTEMS: 1.225 EMU PREBREATHE</td>
<td>Steps 3, 7, 10 not required</td>
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<td>ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC</td>
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<td>ATA TO FILL</td>
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<tr>
<td>20:00</td>
<td>PSARJ - REMOVE COVERS</td>
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<tr>
<td>20:00</td>
<td>PSARJ - 1ST LUBE</td>
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**NOTES**
- **NO UNISOLATED EXERCISE [EVA CREW OUTSIDE OF SARJ]**
- **NO UNISOLATED EXERCISE [APFR FOR SPDM LEE LUBE]**

**Ref. Middeck Transfer List**
- Transfer Ops
- **EAS SETUP/VENT**
- **NH3 VENT TOOL CLNUP**
- **P3-P4 NH3 JUMPER STOW**
- **ATA TO VENT**
- **SPDM CLA COVER INSTALL**
- **SPDM LEE LUBE**
- **PSARJ - 2ND LUBE**
- **PSARJ - INSTALL COVERS**
- **CLEANUP/INGRESS**

**ISS EVA SYSTEMS: CREWLOCK**
- Depress/Repress CC
- Perform CREWLOCK REPRESS

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

**ISS EVA SYSTEMS**
- **CreWlock DEPRESS/REPRESS CC**
- **Perform CREWLOCK REPRESS**
CREW WAKE AT 06/12:00

MARK BOX SPANKY

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

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
POST EVA TAGUP
Private Conference via A/G 2
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

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

MS2

ISS EVA SYSTEMS: 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)

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
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
POST EVA TAGUP
Private Conference via A/G 2
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS3

MS4
### STS-134/ULF6 FD07

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- TDRS: Day 006
- CDR: MARK
- BLT: BOX
- MS1: SPANKY
- NOTES: SLEEP
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STS-134/ULF6 FD08

FD08 EZ ACTIVITIES:
- OCAC FILTER
- MDDK DUCT SCREEN
- HARD REBOOT: STS-2(WINDECOM), STS-3(KFX) & STS-4(RPOP)

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

N2 REPRESS USING PAYLOAD N2 VLVS
- MCC will TMBU SM Limits

IMU STAR OF OPPORTUNITY ALIGN (ORB OPS, GNC)

SUPPLY/WASTE WATER DUMP
- Init Supply Dump, Ref. MSG XXX
- Term Supply Dump, Ref. MSG XXX

EVA CREW: TAKE 1 ASPIRIN (325mg)
- Ref. CONSUMABLES TRACKING CUE CARD
- Ref. MSG XXX

ISS EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP

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

PLT SLEEP LOGBOOK (ORB OPS, SDBI)

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

CWC OVERBOARD DUMP (Term)
- (ORB OPS, ECLS)
- Perform Parts E-H, Ref. MSG XXX

CWC OVERBOARD DUMP (Init)
- (ORB OPS, ECLS)
- Perform Parts A-D, Ref. MSG XXX
**ST-S-134/ULF6 FD08**

**Date:** 04/26 (116) **Day 006**

**GMT**

**MS2:** ROBERTO

**MS3:** DREW

**MS4:** TAZ

**NOTES**

**12:00**
- SLEEP LOGBOOK (ORB OPS, SDBI)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- CGBA STATUS CHK; GLACIER STATUS CHK (CC)

**13:00**
- SLEEP LOGBOOK (ORB OPS, SDBI)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

**14:00**
- EVA CREW: TAKE 1 ASPIRIN (325mg)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EVA 3 TOOL CONFIGURATION (EVA, TIMELINES)

**15:00**
- IENOS OPS (ASSY OPS, PAYLOADS) Step 1.4
- L17 Check MCIU filter screen

**16:00**
- ISS EVA SYSTEMS: 1.315 EMU METOX/LIOH/BATTERY REPLACEMENT
- Ref: STS-134 CONSUMABLES TRACKING CC

**17:00**
- ISS EVA SYSTEMS: 1.515 EQUIPMENT LOCK PREP
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

**18:00**
- EVA 3 TOOL CONFIGURATION (EVA, TIMELINES)
- Ref. CONSUMABLES TRACKING CUE CARD
- Ref. MSG XXX

**19:00**
- PUBLIC AFFAIRS EVENT
- ISS KU AVAIL: 15:48-16:25
- NODE 2: Mark/Box/Taz
04/26 (116) STS-134/ULF6 FD

16:00 - 17:00

EVA 3 TOOL CONFIGURATION
Ref. CONSUMABLES TRACKING CUE CARD
Ref. MSG XXX

17:00 - 18:00

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

18:00 - 19:00

19:00 - 20:00

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

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

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

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

EVA 3 INHIBIT PAD
(EVA, TIMELINES)
A7 - WIRELESS VTR TR - 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
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

12:00 - 13:00

**DAILY TRANSFER LIST UPDATE**
Ref. Transfer List & MSG XXX

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

14:00 - 15:00

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

**L17 Check MCIU filter screen**

**EXERCISE**

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

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

**SCIENCE DAILY OBJECTIVE**

**MS2**
ROBERTO

**MS3**
DREW

**MS4**
TAZ

**NOTES**
ISS EVA SYSTEMS: 2.330 ISLE EMU PREBREATHE (WITH DATA COLLECTION)

Skip Steps 8, 11 and 15
MCC-H Performs Step 52

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

ISS EVA SYSTEMS: C-LK DPRS/RPRS CC POST DEPRESS
P/TV07 EVA (PHOTO/TV, SCENES) OPS

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

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

EGRESS/SETUP

PDGF S/U

RETRIEVE PAMA/PDGF

EXERCISE

FGB PDGF INSTALL

VSC INSTALL

FGB Y-JMPR CH 1/4
STS-134/ULF6 FD09

Date
04/27 (117)
Day 007

16:00
TRANSFER OPS
Ref. Middeck Transfer List

16:00
EXERCISE
ISS EVA SYSTEMS: 2.330 ISLE EMU PREBREATHE
(With data collection)
Skip steps 8, 11 and 15
MCC-H performs step 52

17:00
ISS EVA SYSTEMS: CREWLOCK
DEPRESS/REPRESS CC
Perform CREWLOCK DEPRESS

18:00
ISS EVA SYSTEMS: CREWLOCK
DEPRESS/REPRESS CC POST DEPRESS

18:00
EGRESS/SETUP

19:00
PDGF S/U

20:00
MEAL

GLACIER SWAP - SHUTTLE
(ASY OPS, PAYLOADS)

19:00
RETRIEVE PAMA/PDGF

20:00
FGB PDGF INSTALL

20:00
VSC INSTALL

20:00
FGB Y-JMPR CH 1/4

IVA SUPPORT EVA 3

NOTES
**STSW-134/ULF6 FD09**

**Date:** 04/27 (117)

**00:00:**
- ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC
- ISS EVA SYS: C-LK DPRS/RPRS CC PRE REPRESS
- ISS EVA SYSTEMS: CREWLOCK
- ISS EVA SYS: C-LK DPRS/RPRS CC PRE REPRESS

**01:00:**
- TRANSFER OPS
- Ref. Middeck Transfer List
- 1553 DATA CABLE INST

**02:00:**
- FGB Y-JMPR CH 1/4
- FGB Y-JMPR CH 2/3

**03:00:**
- GET AHEAD
- CLEANUP/INGRESS

**04:00:**
- MEAL

**05:00:**
- MEAL

**06:00:**
- MEAL

**07:00:**
- MEAL

**08:00:**
- MEAL

**09:00:**
- MEAL

**10:00:**
- MEAL

**11:00:**
- P/TWO EVA (PHOTO/TV, SCENES)

**12:00:**
- P/TWO MIDDECK PAYLOADS (PHOTO/TV, SCENES)

**13:00:**
- CDR
- PLT
- MS1

**14:00:**
- BIAS -XLV -ZVV

**15:00:**
- ORB125126127

**16:00:**
- FGB Y-JMPR CH 1/4

**17:00:**
- FGB Y-JMPR CH 2/3

**18:00:**
- CLEANUP/INGRESS

**19:00:**
- MEAL

**20:00:**
- MEAL

**21:00:**
- MEAL

**22:00:**
- MEAL

**23:00:**
- MEAL

**24:00:**
- MEAL

**Notes:**

- Perform CREWLOCK REPRESS
- Transfer Ops, Ref. Middeck Transfer List
- 1553 Data Cable Inst
CREW WAKE AT 08/11:30

PLT BOX

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

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

MS1

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

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)

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

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

MS2

TRANSFER BRIEF
Call down status to MCC

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

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)

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)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Crew Wake at 08/11:30
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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)
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
A
DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG XXX
TRANSFER OPS
Ref. Middeck Transfer List

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
DBSS DOCKED LDRI RCC SURVEY - STBD
(PDRS, LATE INSPECTION)
R1: Box, R2: Drew, R3: Spanky

MCC will TMBU SM Limits

A N2 REPRESS USING PAYLOAD N2 VLVS
(ORB OPS, ECLS) Steps 1, 3-7

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

OBSS DOCKED LDRI RCC SURVEY - STBD
(PDRS, LATE INSPECTION)
R1: Box, R2: Drew, R3: Spanky
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EXERCISE

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

L17 Check MCIU filter screen

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

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

IENOS OPS (ASSY OPS, PAYLOADS) Step 1.4 (PDRS, LATE INSPECTION)

OBSS DOCKED LDRI RCC SURVEY - STBD

2.110 CUBE LAB MODULE-7 TRANSFER TO ISS (ASSY OPS, TRANSFER)
<table>
<thead>
<tr>
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</table>
| 16:00 | TRANSFER OPS  
Ref. Middeck Transfer List |
| 18:00 | SHUTTLE/ISS H2O CNTR FILL  
V Ref MSG XXX |
| 19:00 | MEAL  
SHUTTLE/ISS H2O CNTR FILL  
(ORB OPS, ECLS) Perform FILL TERMINATION |
| 20:00 | ILLUMINATOR OPS (CC,TV) ILLUMINATORS OFF-ALL  
CWC TRANSFER  
Transfer 2 CWCs to ISS |
**NOTES**

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

**EMU SWAP FOR EVA 4**
**EVA, AIRLOCK CONFIG**
Ref. STS-134 CONSUMABLES TRACKING CC

**ISS EVA SYSTEMS: 1.515 EMU**
**METOX/LIOH/BATTERY REPLACEMENT**
Ref. STS-134 CONSUMABLES TRACKING CC
<table>
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<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>20:00</td>
<td>PUBLIC AFFAIRS EVENT&lt;br&gt;ISS KU AVAIL: 19:51-20:29&lt;br&gt;Node 2: Mark</td>
</tr>
<tr>
<td>21:00</td>
<td>MYCO BODY SAMPLE COLLECTION (ASSY OPS, PAYLOADS) Review Only</td>
</tr>
<tr>
<td></td>
<td>N2 REPRESS TERM B</td>
</tr>
<tr>
<td></td>
<td>ISS EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP</td>
</tr>
<tr>
<td>22:00</td>
<td>PUBLIC AFFAIRS EVENT&lt;br&gt;ISS KU AVAIL: 21:31-22:09&lt;br&gt;Node 2: Mark/Box/Drew/Ron</td>
</tr>
<tr>
<td></td>
<td>SPINAL ELONGATION OPERATOR PROCEDURE (ASSY OPS, PAYLOADS)</td>
</tr>
<tr>
<td></td>
<td>EVA 4 TOOL CONFIGURATION (EVA, TIMELINES)</td>
</tr>
<tr>
<td></td>
<td>Ref. CONSUMABLES TRACKING CUE CARD</td>
</tr>
<tr>
<td></td>
<td>SPINAL ELONGATION OPERATOR PROCEDURE (ASSY OPS, PAYLOADS)</td>
</tr>
<tr>
<td></td>
<td>Ref. MSG XXX</td>
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<tr>
<td></td>
<td>EVA 4 PROCEDURE REVIEW&lt;br&gt;Ref. EVA 4 BRIEFING CARD&lt;br&gt;(EVA, TIMELINES)</td>
</tr>
<tr>
<td></td>
<td>Ref. MSG XXX</td>
</tr>
<tr>
<td></td>
<td>TRANSFER BRIEF PREP&lt;br&gt;Coordinate with transfer counterparts</td>
</tr>
<tr>
<td></td>
<td>EVA 4 PROCEDURE REVIEW&lt;br&gt;Ref. EVA 4 BRIEFING CARD&lt;br&gt;(EVA, TIMELINES)</td>
</tr>
<tr>
<td></td>
<td>Ref. MSG XXX</td>
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<tr>
<td></td>
<td>TRANSFER BRIEF&lt;br&gt;Call down status to MCC</td>
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<td>EVA 4 PROCEDURE REVIEW&lt;br&gt;Ref. EVA 4 BRIEFING CARD&lt;br&gt;(EVA, TIMELINES)</td>
</tr>
<tr>
<td></td>
<td>Ref. MSG XXX</td>
</tr>
</tbody>
</table>

**Notes:**
- MCC will TMBU SM Limits
- N2 REPRESS USING PAYLOAD N2 VLVS (ORB OPS, ECLS) Steps 8-13
- BIAS - XLV - ZVV
- EVA 4 TOOL CONFIGURATION (EVA, TIMELINES)
ROBERTO DREW TAZ
STS-134/ULF6 FD

20:00-21:00

MS2
MS3

EXERCISE
MEAL

21:00-22:00

MEAL

22:00-23:00

ISS EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP

23:00-00:00

EVA 4 TOOL CONFIGURATION
Ref. CONSUMABLES TRACKING CUE CARD
Ref. MSG XXX

00:00-01:00

EVA 4 PROCEDURE REVIEW
Ref. EVA 4 BRIEFING CARD
Ref. MSG XXX

NOTES
**CREW WAKE AT 09/11:30**

- **CDR**
  - SLEEP
- **PLT**
  - SLEEP
- **MS1**
  - SLEEP

**PRE-SLEEP ACTIVITY**
- (ORB OPS, CREW SYS)
- **H/O ATT CNTRL CMG TA TO ORB:** √
  - MCC for DAP

**EVA 4 PROCEDURE REVIEW**
- Ref. **EVA 4 BRIEFING CARD**
- (EVA, TIMELINES)

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

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

**D**
- **MNVR (TRK) BIAS -XLV -ZVV**
  - When ISS is GO for deadband collapse, DAP: B13

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

**A12/AUTO/VERN Init TRK**

**MNVR (TRK) REBOOST C**

**AUTO REBOOST**
- (ORB OPS, REBOOST/DAP)

**E**
- When ISS is GO for attitude control, DAP: FREE
  - DAP A12/FREE/VERN
  - Reload DAP B12
CREW WAKE AT 09/11:30

MS2
ROBERTO

MS3
DREW

MS4
TAZ

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

CGBA STATUS CHK; GLACIER STATUS CHK (CC)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

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

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NO EXERCISE [REBOOST]
ROBERTO DREW TAZ

Date 04/29 (119)

Day 009

W E Z

TDRS

D/N

ORB146147148

BIAS -XLV -ZVV

NOTES
FD11 EZ ACTIVITIES:
- OCAC FILTER
- MDDK DUCT SCREEN
- HARD REBOOT: STS-2 (WINDECOM), STS-3 (KFX) & STS-4 (RPOP)

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

POST-SLEEP ACTIVITY
ASSY OPS, CREW SYS
<table>
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<tr>
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<tr>
<td>12:00</td>
<td>POST-SLEEP ACTIVITY</td>
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<tr>
<td>13:00</td>
<td>ISS EVA SYSTEMS: 1.211 HYGIENE BREAK</td>
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<tr>
<td></td>
<td>MCC-N performs step 1</td>
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<td>ISS EVA SYSTEMS: 1.216 EVA PREP</td>
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<tr>
<td></td>
<td>MCC-N performs step 1</td>
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<tr>
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<td>ISS EVA SYSTEMS: 1.220 EMU PURGE</td>
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<tr>
<td></td>
<td>MCC-N performs steps 6 and 12</td>
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<tr>
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<td>ISS EVA SYSTEMS: 1.225 EMU PREBREATHE</td>
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<td>MCC-N performs step 48</td>
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<tr>
<td>15:00</td>
<td>ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC</td>
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<tr>
<td></td>
<td>MCC-N performs CREWLOCK DEPRESS/REPRESS CC</td>
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<tr>
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<td>PRIVAT MEDICAL CONFERENCE</td>
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<td>ISS EVA SYSTEMS: 1.211 HYGIENE BREAK</td>
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<tr>
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<td>MCC-N performs steps 1-4, 16-20, 23</td>
</tr>
<tr>
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<td>ISS EVA SYSTEMS: 1.216 EVA PREP</td>
</tr>
<tr>
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<td>MCC-N performs step 1</td>
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<td>ISS EVA SYSTEMS: 1.220 EMU PURGE</td>
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<tr>
<td></td>
<td>MCC-N performs steps 6 and 12</td>
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<tr>
<td></td>
<td>ISS EVA SYSTEMS: 1.225 EMU PREBREATHE</td>
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<tr>
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<td>MCC-N performs step 48</td>
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<td>ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CC</td>
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<td>MCC-N performs CREWLOCK DEPRESS/REPRESS CC</td>
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### STS-134/ULF6 FD11

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<td>POST-SLEEP ACTIVITY</td>
<td>POST-SLEEP ACTIVITY</td>
<td>ROBERTO</td>
<td>DREW</td>
<td>TAZ</td>
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<td>14:00</td>
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<td>IENOS OPS (ASSY OPS, PAYLOADS) Step 1.4</td>
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<td>P/TV07 EVA (PHOTO/TV, SCENES) SETUP</td>
<td>L17 Check MCIU filter screen</td>
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<tr>
<td>16:00</td>
<td>EXERCISE</td>
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</table>

**ISS EVA SYSTEMS:**
- 1.211 HYGIENE BREAK
  - MCC-H performs steps 1-4, 16-20, 23
- 1.216 EVA PREP
  - MCC-H performs step 1
- 1.220 EMU PURGE
  - MCC-H performs steps 6 and 12
- 1.225 EMU PREBREATHE
  - Steps 3, 7, 10 not required
  - MCC-H performs step 48
- CREWLOCK DEPRESS/REPRESS CC
  - Perform CREWLOCK DEPRESS

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

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

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

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

N2 REPRESS INIT [A]

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

FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)
Inspect filters and clean as necessary

SHUTTLE/ISS H2O CNTR FILL
(ORB OPS, ECLS) Init Fill #3
Ref MSG XXX

MEAL

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

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

OBSS EFGF/PDFG SWAP

NOTES

UPLINK
β 21+Mask
Box 40, 41, 44

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

NO UNISOLATED EXERCISE
[CREW OUTBOARD OF SARJ FOR P6 PDGF RETRIEVE]
STSI-34/ULF6 FD11

MS2: ROBERTO

16:00
- EXERCISE

- OBSS UNGRAPPE FOR STOW
  (PDRS, OBSS HANDOFF)

- EXERCISE CONSTRAINT

- TRANSFER OPS
  Ref. Middeck Transfer List

MS3: DREW

16:00
- MEAL

MS4: TAZ

16:00
- ISS EVA SYSTEMS: CREWLOCK
  DEPRESS/REPRESS CC
  Perform CREWLOCK DEPRESS

- ISS EVA SYS:LP DPRS/RPRS CC: POST DEPRESS

18:00
- EGRESS/SETUP

19:00
- OBSS STOW

20:00
- P6 PDGF RETRIEVE

- OBSS EFGF/PDFG SWAP

NOTES

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

- NO UNISOLATED EXERCISE [CREW OUTBOARD OF SARJ FOR P6 PDGF RETRIEVE]
**Transfer Operations**

Ref. Middeck Transfer List

- **Transfer Brief Prep**
  - Coordinate with transfer counterparts

- **Transfer Brief**
  - Call down status to MCC

**Notes**

- **OBSS EFG/PDFG Swap**
- **OTP Inspect**
- **NO UNISOLATED EXERCISE**
- **SPDM EDF RELEASE**

**IVC Support EVA 4**

- **ELC3 SPDM ARM RLS**
- **HPGT FRGF MLI INSTALL**

**Clean Up/Ingress**

- **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

- **ISS EVA Systems: CREWLOK**
  - 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
CREW WAKE AT 10/11:00
CREW WAKE AT 10/11:00

POST EVA
See pg. 3-121

PRE-SLEEP ACTIVITY
ORB OPS, CREW SYS

CGBA STATUS CHK; GLACIER STATUS CHK (CC)

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

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

PRE-SLEEP ACTIVITY
ORB OPS, CREW SYS

SLEEP

SLEEP

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**Day 010**

**Date**

**04/30 (120)**

**04:00**

**05:00**

**06:00**

**07:00**

**08:00**

**uded notes:**
FD12 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)
EVA CREW: TAKE 1 ASPIRIN (325mg)
NOTES

EVA CREW: TAKE 1 ASPIRIN (325mg)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-EVA EMU RECONFIGURATION (EVA, AIRLOCK CONFIG)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 13:38-14:14
NODE 2: Mark

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EXERCISE

TRANSFER OPS
Ref. Middeck Transfer List

NOMINAL H2O CONFIG (ORB OPS, ECLS)
VMCC for FES PRI A

MCC for FES PRI A
Date 04/30 (120) MET Day 010

12:00
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

12:00
- TDRS D/N ORB167168169
- ATT ~ ~ ~
- BIAS -XLV -ZVV

12:00
- L17 Check MCIU filter screen
- CGBA STATUS CHK; GLACIER STATUS CHK (CC)
- IENOS OPS (ASSY OPS, PAYLOADS) Step 1.4
- DAILY TRANSFER LIST UPDATE
- Ref. Transfer List & MSG XXX
- CGBA STATUS CHK; GLACIER STATUS CHK (CC)
- IENOS OPS (ASSY OPS, PAYLOADS) Step 1.4
- TRANSFER OPS
- Ref. Middeck Transfer List

14:00
- POST EVA EMU RECONFIGURATION
- (EVA, AIRLOCK CONFIG)

EXERCISE

NOTES
**STSW-134/ULF6 FD12**

**Date:** 04/30 (120)

**16:00**
- POST EVA EMU RECONFIGURATION (EVA, AIRLOCK CONFIG)
- EXERCISE
- CREW PHOTO
- CREW CONFERENCE
- ISS KU AVAIL: 17:27-18:07

**17:00**
- MEAL
- CREW CONFERENCE
- ISS KU AVAIL: 17:27-18:07

**18:00**
- CREW PHOTO
- TRANSFER OPS
  - Ref. Middeck Transfer List

**19:00**
- CREW PHOTO
- TRANSFER OPS
  - Ref. Middeck Transfer List

**20:00**
- -
JOINT OPS: 3.116 HIGH PRESSURE TANK O2 XFER
Steps 3.2-3.3

C  On MCC GO:
PCS ACTIVATION
MO10 W 14.7 CAB REG INLET SYS 1 VALVE - OP

MARK BOX SPANKY
B  C5 DIRECT O2 VALVE - CL
OCAC PWR - ON

O2 REPRESS TERM (On MCC GO) B

SHUTTLE CONDENSATE COLLECTION
JOINT OPS: 3.116 HIGH PRESSURE TANK O2 XFER
Steps 3.2-3.3
(JOINT OPS: 3.118 OXYGEN TRANSFER TEARDOWN
Steps 1-6, MCC-H will perform steps 1.6 and 5.5

FAREWELL

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
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<thead>
<tr>
<th>Time</th>
<th>CDR</th>
<th>PLT</th>
<th>MS1</th>
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<td>SLEEP</td>
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<tr>
<td>00:00</td>
<td>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</td>
<td>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</td>
<td>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</td>
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<tr>
<td>01:00</td>
<td>L9 PS AUD A/G 1,2 (two) - OFF</td>
<td>PRIVATE MEDICAL CONFERENCE</td>
<td>PRIVATE MEDICAL CONFERENCE</td>
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<td>Private Conference via A/G 2</td>
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<tr>
<td>02:00</td>
<td>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</td>
<td></td>
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<tr>
<td>03:00</td>
<td>SLEEP</td>
<td>SLEEP</td>
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**Crew Wake at 11/10:30**
**STS-134/ULF6 FD12**

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**NOTES**

**CREW WAKE AT 11/10:30**
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</table>
### FD13 EZ ACTIVITIES:

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

**NOTES**
MS2 ROBERTO

16:00  RE-RENDEZVOUS TIMELINE (RNDZ, UNDOCK/SEP T/L)

17:00  STORM

18:00  SSV OUTRATE - 3

19:00  P/TV03 UNDOCK (PHOTO/TV, SCENES) DEACTIVATION

20:00  EXERCISE

NOTES

MS3 DREW

RE-RENDEZVOUS TIMELINE (RNDZ, UNDOCK/SEP T/L) MEAL

MS4 TAZ

RE-RENDEZVOUS TIMELINE (RNDZ, UNDOCK/SEP T/L) MEAL
**FLP PLN/134/FIN**

---

**B** RECONFIGURE 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

---

**CDR**

**MARK**  
**PLT**  
**BOX**

---

**MEAL**

---

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

---

**3-144**

---

**FLT PLN/134/FIN**
CREW WAKE AT 12/10:00

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

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### STS-134/ULF6 FD13

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**TDRS**

**D/N**

**ORB**

**ATT**

**CDR**

**SLEEP**

**MS1**

**SPANKY**

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

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

PUBLIC AFFAIRS EVENT
KU AVAIL: 11:37-12:05
FD: All Crew
NOTES

B RECONFIGURE OCA DOWNLINK RATE (2 Mbps)
(ORB OPS, PGSC) Part D then A, Omit step 4
Day 012

12:00 - POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

13:00 - COBA STATUS CHK; GLACIER STATUS CHK (CC)

13:00 - POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

13:00 - FCS CHECKOUT
(ORB OPS, GNC)

14:00 - RCS HOT FIRE TEST
(ORB OPS, RCS)

14:00 - STORM DEACT
(RNDZ, RNDZ STORM)

15:00 - EXERCISE

15:00 - WLES RNDZ TOOLS C/O PREP (ORB OPS, WLES)

16:00 - EXERCISE

16:00 - DEORBIT PREP BRIEFING

NOTES
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%

Perform DUMP TERMINATION
√
MCC for FES PRI A

CWC OVERBOARD DUMP (Term)
(ORB OPS, ECLS)
Perform Parts E-H

CWC OVERBOARD DUMP (Init)
(ORB OPS, ECLS)
Perform Parts A-D, Ref. MSG XXX

MNVR (TRK) -ZLV -XVV
TG=2 BV=3 OM=0
A1/AUTO/VERN Init TRK

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

MS1
KU-BD ANT STOW
(ORB OPS, COMM/INST)
Deactivate CCTV

A6L MADS STRAIN GAGE - ON
**STSW-134/ULF6 FD14**

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

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

**MS1**
- PRE-SLEEP ACTIVITY
  (ORB OPS, CREW SYS)

**NOTES**

**PRE-SLEEP ACTIVITY**

**CREW WAKE AT 13/09:30**

**SLEEP**

**SLEEP**

**SLEEP**
CREW WAKE AT 13/09:30

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CREW WAKE AT 13/09:30
FD15 EZ ACTIVITIES:

- OCAC FILTER
- Stow CSA-CP

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)

PRIORITY PWRUP GRP B
(ORB PKT, PRIOR PWRDN)

Step 12 (IMU 2), 10, 9, 7, 6 (Dual G2), 5, 2

IMU ALIGN See pg. 3-164

NOTES
ROBERTO DREW TAZ

05/03 (123)

Day 013

GMT 08:00 09:00 10:00 11:00

MS2 ROBERTO

SLEEP

MS3 DREW

POST-SLEEP ACTIVITY

MS4 TAZ

SLEEP

NOTES

SLEEP LOGBOOK (ORB OPS, SDBI)

POST-SLEEP ACTIVITY

ORB OPS, CREW SYS

SLEEP LOGBOOK (ORB OPS, SDBI)

POST-SLEEP ACTIVITY

ORB OPS, CREW SYS

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

IMU ALIGN See below

---

AIR SAMPLE Rcd MET and location on bottle
Bottle located in MF43O

---

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

DOFF ACTIWATCH (ORB OPS, SDBI)

KG END /134/FIN
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)

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**REQD ID:**

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

**ANG:**
1 2 3

**ΔX:**

**ΔY:**

**ΔZ:**

**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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**ΔY:**

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