Another night in the White FCR
1. **Post-Sleep Cryo Config**

For today's Post-Sleep cryo config, O2 Tanks 2, 3, and 4 and H2 Tanks 2 and 5 will be active.

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

- **A11**
  - CRYO TK4 HTRS O2 A,B (two) - AUTO
  - H2 A,B (two) - OFF

- **A15**
  - CRYO TK5 HTRS O2 A,B (two) - OFF
  - H2 A,B (two) - AUTO

**Pre-Sleep Cryo Config**

√MCC for deltas prior to configuring for Pre-Sleep.

For tonight's Pre-Sleep cryo config, Manifold 1 will be closed with O2 and H2 Tanks 1 and 5 active.

- **A15**
  - CRYO TK5 HTRS O2 A,B (two) - AUTO

- **A11**
  - CRYO TK4 HTRS O2 A,B (two) - OFF

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

2. **NLP GAP Activation/Termination**

Call-down Reminder for Leland:

For NLP GAP Activation and Termination please call down MET Start time for the first GAP in the group and MET Stop time for the last GAP in the group. Start and stop times for individual GAPs are not necessary.
Condensation Possibility:

There is a potential for some condensation to develop on the surfaces of the FPAs and/or GAPs. When CGBA is run at 10C or lower, it will be below the dewpoint of the shuttle. Because of this, when removing GAPs from CGBA, condensation may form, due to cabin humidity levels. The amount of moisture formed depends on humidity levels in the cabin, and over time, the inside top and bottom surfaces of CGBA could condense water leading to something more like free drops of water.

It is important to distinguish between condensation and a leak. Moisture due to condensation will be uniform on the outside of the surface of the GAP and not associated with the o-ring seals. Also, there will be no damage or breach of the 1st level of containment, (made up of the glass barrel and upper and lower seals), which is probably the most important confirmation.

Pen and Ink ASSY OPS with the following (2 locations):

NLP ACTIVATION, pg. 128, step 6
NLP TERMINATION, pg. 134, step 6

Location callout was:
CGBA or
MF71K

Location callout is:
MF71E
(CGBA)
MA16D

3. REPLACE PAGES 2-10 AND 2-12, 3-32 THROUGH 3-41.
<table>
<thead>
<tr>
<th>Time</th>
<th>CDR Hobaugh</th>
<th>M2 Plt Wilmore</th>
<th>M1 Ms1 Melvin</th>
<th>Ms2 Bresnik</th>
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<td>P/TVD EVA</td>
<td>MEAL</td>
<td>EVA S/U</td>
<td>EXERCISE</td>
<td>EVA IVA SUPPORT</td>
<td>EVA IVA SUPPORT</td>
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<td>16:00</td>
<td>P/TVD EVA</td>
<td>CWC TERM</td>
<td>P/TV07 EVA</td>
<td>EXERCISE</td>
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</tbody>
</table>

**NOTES:**
- CWC XFER (3)
- BIAS -XLV -ZVV
- NS4/PODF1
**FD04 EZ ACTIVITIES:**

- OCAC FILTER & MDDK DUCT SCREEN
- TEPC (STATUS CHECK)
- (ORB OPS, CREW SYS)
- HARD REBOOT ALL PGSCs EXCEPT: STS-1 (OCA ROUTER), STS-5 (RPOP2), AND STS-6 (WLES)

---

**NOTES**

- PRIVATE MEDICAL CONFERENCE
- L9 PAYLOAD STATION A/G (two) - OFF
- ISS EVA SYSTEMS: 1.211 HYGIENE BREAK
  - Perform via A/G 2
- ISS EVA SYSTEMS: 1.216 EVA PREP

---

**HOBPAUGH**

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

**WILMORE**

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

**MELVIN**

- SLEEP
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
FLIGHT PLN/129/FLT

BRESNIK FOREMAN SATCHER

NO UNISOLATED EXERCISED DURING SASA INSTALL

REPLANNED

STS-129/ULF3 FD04

Date 11/19

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

16:00 17:00 18:00 19:00 20:00

17:00 EXERCISE

18:00 IVA SUPPORT PREP

19:00 EVA IVA SUPPORT

20:00 -

ISS EVA SYSTEMS: 1.216 EVA PREP

ISS EVA SYSTEMS: 1.216 EVA PREP

ISS EVA SYSTEMS: 1.220 EMU PURGE

ISS EVA SYSTEMS: 1.220 EMU PURGE

ISS EVA SYSTEMS: 1.225 EMU PREBREATHE

ISS EVA SYSTEMS: 1.225 EMU PREBREATHE

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD

ISS EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD

ISS EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)

ISS EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)

EGRESS/SETUP

EGRESS/SETUP

SPARE SASA INSTALL (PLB to Z1) EXERCISE CONSTRAINT

SPARE SASA INSTALL (PLB to Z1) EXERCISE CONSTRAINT

NOTES
HOBAUGH WILMORE MELVIN

NO UNISOLATED EXERCISEDURING SASA INSTALL (NO ERGOMETER, HC-1, OR VELO)

P/TV07 EVA (PHOTO/TV, SCENES) Ops
SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS)
Perform FILL TERMINATION

SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) INIT FILL #3
Ref. MSG 017

ATT
B
CWC TRANSFER
Transfer 3 CWCs to ISS

CDR
HOBAMU

PLT
WILMORE

MSI
MELVIN

NOTES

---

ROBOTICS: 1.210 EVA1- SASA TRANSFER
AND LEE LUBE OPS

ROBOTICS: 1.210 EVA1- SASA TRANSFER
AND LEE LUBE OPS

---

UPDATE

KU Stdby

---

NO UNISOLATED EXERCISE DURING SASA INSTALL (NO ERGOMETER, HC-1, OR VELO)
NO UNISOLATED EXERCISE DURING SASA INSTALL (NO ERGOMETER, HC-1, OR VELO)

STEPS:
- Install Node 1 HR/NH3 Bracket
- Route SGANT Cable (TSA to Z1)
- Install Node 1 FGB LAN Cable/MMOD Shield
- POA Lube
- Lube JEM RMS

Notes:
- BRESNIK
- FOREMAN
- SATCHER
### STS-129/ULF3 FD04

**REPLANNED**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>00:00</td>
<td>CWC TRANSFER: Transfer 3 CWCs to ISS (Photo/TV, Scenes)</td>
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<tr>
<td>01:00</td>
<td>ROBOTICS: 1.210 EVA 1 to MT Xlate Config (No FI)</td>
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<tr>
<td>02:00</td>
<td>ISS EVA Systems: Pre Repress (CC)</td>
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<tr>
<td>03:00</td>
<td>ISS EVA Systems: Crewlock Depress/Repress Cue Card</td>
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<tr>
<td>04:00</td>
<td>CGBA and ABRS Status CK (Cue Card)</td>
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</table>

### Notes
- Move GAPs A-H in MA16D to MF71E (CGBA) and GAPs 5-8, 13-16 in MF71E (CGBA) to MA16D.
- ISS EVA Systems: Pre Repress (CC)
- ISS EVA Systems: Crewlock Depress/Repress Cue Card
- ISS EVA Systems: 1.240 Post EVA with H2O Ref: STS-129 Consumables Tracking CC (EVA)

### Additional Activities
- **PRIVATE MEDICAL CONFERENCE**: L9 Payload Station A/G (two) - OFF Perform via A/G 2
- **PRE-SLEEP ACTIVITY** (ORB Ops, Crew Sys)
- **TRANSFERS**
  - Ref. Transfer List & MSG 025
  - Ref. Transfer List & MSG 025
  - Ref. Transfer List & MSG 025
- **NLP ACTIVATION** (ASSY Ops, Payloads)
  - Complete GAP swaps prior to closing up CGBA
  - Activate GAPs 5-8 in MF71E (CGBA)
  - Terminate GAPs A-H in MA16D; Steps 2, 6, 11 Perform Block A

### Transfer BRIEF
- Call down status to MCC

### Pre-Sleep Activity
- (ORB Ops, Crew Sys)
ISS EVA SYSTEMS: 1.605 BSA BATTERY RECHARGE
(INIT) Ref: STS-129 BATTERY RECHARGE CC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA IVA SUPPORT

NODE1 FGB LAN CABLE/MMOD SHIELD

LUBE JEM RMS

SO 1/4 AVIONICS CABLE TROUBLESHOOT

EVA CLEANUP & INGRESS

TRANSFER OPS
Ref. Transfer List & MSG 025

ISS EVA SYSTEMS: PRE REPRESS (CC)
ISS EVA SYSTEMS: CHCLOCK
DEPRESS/REPRESS CUE CARD

ISS EVA SYSTEMS: PRE REPRESS (CC)
ISS EVA SYSTEMS: CHCLOCK
DEPRESS/REPRESS CUE CARD

ISS EVA SYSTEMS: 1.240 POST EVA
With H2O
Ref: STS-129 CONSUMABLES
TRACKING CC (EVA)

ISS EVA SYSTEMS: 1.240 POST EVA
With H2O
Ref: STS-129 CONSUMABLES
TRACKING CC (EVA)

LUBE JEM RMS

EVA CLEANUP & INGRESS

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

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

STS-129/ULF3 FD04

CREW WAKE @ 03/13:30

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NOTES
BRESNIK  FOREMAN  SATCHER

CREW WAKE @ 03/13:30

NOTES

14  14
Good morning Atlantis – congrats on a beautiful rendezvous and docking!
We all look forward to the first EVA of the mission today.
And, NO FOCUSED INSPECTION is required!

YOUR CURRENT ORBIT IS: 187 X 180 NM

**NOTAMS:** ONE CHANGE (NTU RWY 14L/32R OPEN)

- EDW - LAKEBED RWY 15/33 GREEN - ELS ONLY. RWY 18L - UNUSABLE.
- NOR - LAKEBED RUNWAYS GREEN.
- NTU - RWY 05R/23L CLOSED.
- YQX - TACAN YQX CH74 OTS.
- LAJ - TACAN LAJ45 OTS.
- PTN - AIRFIELD CLOSED.
- GUA - RWY 06R/24L CLOSED. RWY 06L REIL OTS.
- IKF - NOT USABLE. NO AGREEMENT.
- BEN - NOT RECOMMENDED/NOT SUPPORTED

**NEXT 2 PLS OPPORTUNITIES:**

- EDW04 ORB 49 – 3/00:39 FEW250 7 060/05P08
- EDW22 ORB 64 – 3/23:26 SCT250 7 230/09P14

**OMS TANK FAIL CAPABILITY:**

- L OMS FAILS: NO
- R OMS FAILS: NO

**LEAKING OMS PRPLT BURN:**

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

**OMS QUANTITIES(%)**

- L OMS OX = 38.5  R OMS OX = 38.8
- FU = 38.5  FU = 38.4

Subtract interconnect counter for current OMS quantities.
DELTA V AVAILABLE:

OMS 380 FPS
ARCS (TOTAL ABOVE QTY1) 35 FPS

TOTAL IN THE AFT 415 FPS

ARCS (TOTAL ABOVE QTY2) 65 FPS
FRCS (ABOVE QTY 1) 38 FPS

AFT QTY 1 85 %
AFT QTY 2 47 %

THERE ARE NO FAILURE/IMPACT/WORK AROUNDS FOR TODAY.
Congratulations on an excellent rendezvous and docking!!! The MMT met just after hatch opening to review mission progress and orbiter systems.

Atlantis is in great shape. The following minor systems items were mentioned: ODS temporary loss of ring alignment on FD2, missing Starboard MRL 2 latch indication, high rate OCA downlink problem, and the TCS undervolt message. If the high rate OCA is not resolved with further troubleshooting, the late inspection data downlink will take a couple extra hours. Otherwise, these issues are explained and have no mission impact. The team received a quick-look summary of the integrated ascent systems performance and all parameters were nominal.

The Damage Assessment Team data review is on schedule, and they should have their final assessments soon. The RCC team is well into their review of the FD2 inspection data and no issues have been noted so far. The TPS team is reviewing the RPM photos as they are downlinked. The Focused Inspection meeting is tonight and we will get you results as soon as we have them.
Good Morning Leland and Mike,

You did a great job on transfer yesterday! You are 6% complete with transfer. Today you have CTBs and NOD1 Outfitting Hardware that needs to be transferred before the timelined ISS activity as well as some items that are transferred during a timelined activity.

The Transfer List Excel file, FD04_Transfer_List_STS129.xls, locations are:
- Shuttle: C:\OCA-up\transfer (KFX machine)
- Station: K:\OCA-up\transfer

**FD04 Choreography**
- Items 60, 60.1, & 60.2: Transfer Double Coldbag per DCB APEX UNPACK activity
- Item 29.6: Transfer ChECS CTB for CSA-CP ACT & C/O activity
- Item 39.5: Transfer ChECS CTB for HMS IMAK Unpack and HMS MED Kit Resupply activities
- Items 38.1, 38.1.1, & 733: Swap Dashpots per CMS-ARED DASHPOT-PACK activity
- Items 31, 32, 33, 34, 35, 36, & 37: Transfer MIDBAY items for FD04 & FD05 OUTFITTING activities
- Item 59: Transfer MISC 1 bag for Ultrasound Board R&R activities

Please incorporate uplink pages as follows (we’ve listed the updates in the order they printed out for you):

In the Transfer List **LAYOUT** tab
- Add the following page:
  - Resupply L-2

In the Transfer List **RESUPPLY** tab
- Replace the following pages:
  - Resupply 7, 13, and 14

In the Transfer List **RETURN** tab
- Replace the following pages:
  - Return 2 and 8

Changes to the Transfer List are detailed below:

**MIDDECK RESUPPLY**
- Item 30.9 - updated initial location
- Item 54 - updated final location
- Item 59 - updated notes
- Item 59.1 - deleted
MIDDECK RETURN
Item 409 - updated notes
Item 731 - updated initial location

FD05 Choreography
- Items 51 & 52.1: Transfer ABRS locker and a CTB per ABRS TRANSFER activity
- Items 9, 10, 17, 18, 729, & 729A: Transfer LiOH per LIOH SWAP activity
- Item 25: Transfer KFTs per ABRS SAMPLE RETRIEVE activity

Have a wonderful day and let us know if you have any questions!

- The STS-129 Transfer Team
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Note: Please notify MCC-H 10 minutes prior to the event to allow for ground network configuration.