Colbert Elated, Stewart Miffed

NEW YORK (MATS Central) - Comedic news commentator Jon Stewart is apparently miffed about ISS exercise hardware being named after fellow Comedy Central commentator Steven Colbert. Colbert lobbied to get the Node 3 element of the International Space Station named COLBERT in NASA’s online naming contest for the Node. Although Colbert convinced his viewers to vote for “Colbert” as the new name, helping it win by a large margin, NASA elected to name the hardware “Tranquility”. As a concession, NASA decided to name the new exercise treadmill COLBERT, which is an acronym for Combined Operational Load Bearing External Resistance Treadmill.

While the decision pleased Colbert, an irate Jon Stewart vehemently complained to the space agency that he deserved the same treatment. In response, NASA offered to name the ISS Urine Processor after Stewart, Space Toilet Environmental Waste Accumulator/Recycling Thingy. Upon hearing this, Stewart declined the offer.
This page intentionally cartooned

Diagram G-1: EVA WORKAROUNDS CRIBSHEET
1. **EVA 2 Prep** - Excellent job on EVA1 and we're looking forward to EVAs 2 & 3.

   Message 045 (20-1059) is your FD06 EVA Deltas Message. In addition, you'll see that we've added some time to review a briefing package for EVA 3. All the details are in message 046 (20-1060).

2. **48 Meg OCA** - Later today you will be troubleshooting the 48Meg OCA downlink. Message 128-042 details the procedure. The first part of the procedure has you performing loopback tests and potentially swapping the OCA I/F cable.

   If that is successful, then MCC will give you a GO to Reconfigure OCA Downlink Rate.

3. **Airlock Temps** - Danny- How was the temperature in the airlock during campout and EVA prep? Please let ECLSS know if you'd like us to adjust it for your next EVAs. For your reference, it was set at 22 °C (71.5 °F).

4. Replace pages 3-56 through 3-65.
ISS A/L Campout at 10.2 psi

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**FD06**
- CDR STURCKOW
  - EVA PROC RW
  - PRE SLEEP
  - XFER TAG
  - PRE SLEEP
  - SLEEP

**PLT FORD**
- MPLM XFER
- EVA PROC RW
- PRE SLEEP
- SLEEP

**MS1 FORRESTER**
- EVA 3 BRIEF
- EVA PROC RW
- PRE SLEEP
- SLEEP

**MS2 HERNANDEZ**
- MPLM XFER
- EVA PROC RW
- PRE SLEEP
- MASK PREBREATHE
- SLEEP

**MS3 OLIVAS**
- EVA 3 BRIEF
- EVA PROC RW
- PRE SLEEP
- MASK PREBREATHE
- SLEEP

**MS4 FUGLESTANG**
- EVA 3 BRIEF
- EVA PROC RW
- PRE SLEEP
- MASK PREBREATHE
- SLEEP
FD06 EZ ACTIVITIES:
- OCA FILTER
- MDDK DUCT SCREEN
- TEPC (STATUS CHECK)
- HARD REBOOT ALL PGSCs EXCEPT: STS-1 (OCA ROUTER), STS-6 (WLES) & STS-5 (RPOP2)

GLACIER/MELFI SAMPLE XFER REVIEW
Ref. MSG 040 AND MSG 041

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

TV (ILLUMINATOR OPS: PHOTO/TV, CC)
ILLUMINATORS OFF - ALL
OCA ARMS TROUBLESHOOTING
Ref. MSG 034 Item 2

GLACIER STATUS CHECK (ASSY OPS, P/L)
REPLANNED

**STSW-17A FD06**

**GTM** | **MET**
---|---

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<td>Sleep</td>
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- **MS2 HERNANDEZ**
- **MS3 OLIVAS**
- **MS4 FUGLESANG**

**NOTES**

- **OCA 48Mb TROUBLESHOOTING**
  - Ref. MSG 034 Item 2
- **DAILY TRANSFER LIST UPDATE**
  - Ref. Transfer List & MSG 036
- **STS-128/17A LiOH TRANSFER PROCEDURE**
  - (MPLM Resupply Transfer List, Transfer Procedures)
  - Ref. MPLM Resupply Transfer List: Items 222, 223, 224, 225
  - Steps 7.3 and 8
- **2.104 RACK TRANSFER FROM MPLM TO ISS**
  - (ASSY OPS, TRANSFER)
  - Perform for F1R Rack
STST-128/17A FD06

GMT Date 09/03
TDRS (246) WEZ NB
DA A
00:00 - 20:00 ~ 01:00
~ 02:00 ~ 03:00 ~
04:00 ~ ~ ~ ~

MS2 HERNANDEZ
MS3 OLIVAS
MS4 FUGLESANG

TRANSFER OPS
Ref. MPLM Transfer Lists

17A EVA 2 TOOL CONFIG
(EVA, TIMELINES)
Ref. STS-128 Consumables Tracking (Cue Card)
Ref. STS-128 Consumables Tracking (Cue Card)
Ref. MSG 045

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (21:41-22:20)
Ref. MSG 037 and 039

EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
Steps 1-3 already complete. Step 27,
Use Vacuum Manometer #13.

TRANSFER OPS
Ref. MPLM Transfer Lists

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (21:41-22:20)
Ref. MSG 037 and 039

EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
Steps 1-3 already complete. Step 27,
Use Vacuum Manometer #13.

TRANSFER OPS
Ref. Middeck Resupply Transfer List:
Item 11

EXERCISE

EVA 3 BRIEF
Ref. MSG 046

EVA 3 BRIEF
Ref. MSG 046

NOTES
STURCKOW FORD FORRESTER

Omit steps 1, 2, 3
Use A/G2 for audio
Inform MCC of which PGSC will be used

Date
09/03 (246)

Day 005

04:00

EVA 3 BRIEF
Ref. MSG 046

TRANSFER OPS
Ref. MPLM Transfer Lists

EVA 3 BRIEF
Ref. MSG 046

EVA PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)
Ref. MSG 045 and 046

EVA PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)
Ref. MSG 045 and 046

EVA PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)
Ref. MSG 045 and 046

TRANSFER TAGUP
Coordinate with transfer counterparts

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

GLACIER STATUS CHECK
(ASSY OPS, P/L)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NETMEETING VIDEO CONFERENCING
(ORB OPS, PGSC)

Private Medical Conference
KU TDRE (02:51-03:00)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Perform Air Quality Report

Omit steps 1, 2, 3
Use A/G2 for audio
Inform MCC of which PGSC will be used
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**STSW-128/17A FD06**

**Date** 09/03 (246)  **Day 005**

**MS2** HERNANDEZ  **MS3** OLIVAS  **MS4** FUGLESANG

**NOTES**

- **TRANSFER OPS**
  - Ref. MPLM Transfer Lists

- **EVA 3 BRIEF**
  - Ref. MSG 046

- **EVA PROCEDURE REVIEW**
  - Ref. EVA 2 BRIEFING CARD
  - Ref. MSG 045 and 046

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

- **EVA SYSTEMS**
  - 1.206 10.2 PSIA CAMP OUT
  - MASK PREBREATHE

- **EVA 3 BRIEF**
  - Ref. MSG 046

- **EVA PROCEDURE REVIEW**
  - Ref. EVA 2 BRIEFING CARD
  - (EVA, TIMELINES)
  - Ref. MSG 045 and 046

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

- **EVA SYSTEMS**
  - 1.206 10.2 PSIA CAMP OUT
  - MASK PREBREATHE

- **EVA SYSTEMS**
  - 1.206 10.2 PSIA CAMP OUT
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  - 1.206 10.2 PSIA CAMP OUT
  - MASK PREBREATHE

- **EVA SYSTEMS**
  - 1.206 10.2 PSIA CAMP OUT
  - MASK PREBREATHE
### STS-128/17A FD06

**Crew Wake at MET 5/12:30**

- **08:00** - PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- **04:00** - PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- **06:00** - PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

**Perform Air Quality Report**

**Notes:**

- MS1: SLEEP
- PLT: SLEEP
- CDR: PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

**Date:** 09/03 (246) Day 005

**Time:**
- 08:00 - 12:00

**Day:**
- 005

**ORB:**
- 8 3 8 4 8 5

**DRS:**
- W E Z T

**ZVV:**
- IAS - XLV - ZVV

**ATT:**
- ~ ~ ~ ~ ~
Crew Wake at MET 5/12:30
Good Morning Discovery!!!!

EVA 1 was outstanding! It was a privilege to watch the team execute it! Thank you!

TriDAR reps have received all of the data collected during FD3 DTO docking operations and are busy analyzing it, but they are confident that the TriDAR has already met all of its primary mission objectives! Thank you for the great support, and we look forward to the next phase during undock!

The MISSE 6 team wants to thank everyone on-orbit and on the ground who helped get our experiments back. It was great to see all your excellent work. Twenty plus experiment teams are standing by to begin analyzing the science your great efforts are bringing home.

Thanks again!

Have a great transfer day!!!!

YOUR CURRENT ORBIT IS: 193 X 181 NM

NOTAMS: ONE CHANGE (DELETED ONE GUA NOTAM)

EDW - EDW IN USE. EDT DAY ELS ONLY.
EDW - LAKEBED RWY 15/33 GREEN - ELS ONLY. RWY 18L - UNSUSABLE.
NOR - LAKEBED RUNWAYS GREEN.
FMH - RWY 32 SEQUENCED FLASHING LIGHTS OTS.
YJT - TACAN YJT78 OTS.
YYR - TACAN UYR40 OTS.
LAJ - TACAN LAJ45 OTS.
HAW - RWY 31 LDA = 9024 FT.
GUA - RWY 24R END LIGHTS OTS.
IKF - NOT USABLE. NO AGREEMENT.
BEN - NOT RECOMMENDED/NOT SUPPORTED

NEXT 2 PLS OPPORTUNITIES:

NOR17 ORB 79 – 4/22:39 SCT120 SCT 250 7 150/6P08
EDW22 ORB 95 – 5/23:02 SKC 7 230/5P07

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 = 34.4  R OMS OX = 33.4  
                    FU = 33.9  FU = 33.4 

DELTA V AVAILABLE:  

OMS                        359 FPS  
ARCS (TOTAL ABOVE QTY1)     23 FPS  

TOTAL IN THE AFT            382 FPS  
ARCS (TOTAL ABOVE QTY2)     56 FPS  
FRCS (ABOVE QTY 1)          34 FPS  
AFT QTY 1                   83 %  
AFT QTY 2                   45 %  

THERE ARE NO FAILURE/IMPACT/WORK AROUNDS FOR TODAY.
Good morning Danny, Christer, CJ & Jose

All of you did an outstanding job yesterday!! You are 63 percent complete on Middeck, 18 percent complete on MPLM, and 24 percent complete overall. Today you will be transferring 3 more racks, gathering items needed for EVA 2, stowing LiOH, and the ISS crew will be transferring lots of food!

The Transfer List Excel file, FD06_Transfer_List_STS128.xls, locations are:

- Shuttle: C:\OCA-up\transfer (KFX machine)
- Station: K:\OCA-up\transfer

Transfer Notes

- **Pivot Pins**: Yesterday we did not get confirmation that the pivot pins were installed at MPL1F1, MPL1A3, & MPL1F3. The pins and procedure are referenced in the detail pages for the MPLM transfer time on CJ and Kevin (these pins must be installed to retrieve the items required for the food transfer and EVA tool config).
- **LiOH**: Yesterday Christer got ahead on the LiOH transfer, so the LiOH activities scheduled for today have been consolidated into one activity. Danny will gather the remaining cans from the Middeck and then stow the cans in the CTBs staged in the MPLM Endcone.
- **Food Transfer**: Today Bob will be gathering the 69 loose food containers in the MPLM and stowing them in 3.0 CTBs. MSG 044 (20-1067): 17A Food Transfer and Consolidate Procedure has been uplinked on both ISS and STS for this activity.

FD06 Choreography

- **CJ & Kevin**
  - Items 102 & 244: Install pivot pins at MPL1F1, MPL1A3, & MPL1F3
- **Christer & Frank**
  - Items 222, 223, 224, & 225: Transfer FIR and temp stow handrails in MPLM
  - Items 169, 170, & 171: Transfer MSRR and temp stow handrails in MPLM
  - Items 104, 105, 106, & 107: Transfer MELFI-2 Rack and handrails to ISS
- **Danny (LiOH)**
  - Items 184, 260.1, 267.1, 269.1, 804, 805, 806, 807, 808, & 809: LiOH Transfer Part 1
- **Prior to EVA 2 Tool Config Activities**
  - Item 153.1: Transfer RGA for EVA 2 TOOL CONFIG activity
  - Item 206: Transfer EVA SLEEVES for EVA 2 TOOL CONFIG activity
  - Item 242: Transfer WIRE TIES for EVA 2 TOOL CONFIG activity
  - Item 108.1: Transfer S0-TO-NOD3 CABLE BAG CHANNEL 1/4 for EVA 2 TOOL CONFIG activity
- **Item 153.3**: Transfer Double Coldbag for GLACIER SAMPLE XFER activity
- **Items 7, 8, 9, & 10**: Transfer Glacier samples to ISS per GLACIER SAMPLE XFER activity
- **Bob**
- **Danny** (required Middeck transfer item)
  - Item 11: Transfer CTB for FD07 GSC OPS activity
Please incorporate uplink pages as follows (we’ve listed the updates in the order they printed out for you):

In the Middeck Transfer List RETURN tab
Replace the following pages:
  Return 1, 3, & 4

In the MPLM RETURN Transfer List RETURN tab
Replace the following pages:
  Return 8, 12 & 13

Changes to the Transfer List are detailed below:

MIDDECK RETURN
Item 715 – updated temp location
Item 736 – updated temp location and notes
Item 613 – deleted item
Item 616 – updated initial location and notes

MPLM RETURN
Item 501 - updated final location
Item 532 – updated notes
Item 546 - updated final location
Item 560 - updated final location

FD07 Choreography
- Items 124, 125, & 126: Transfer T2 Panels & Poles
- Items 151.2 & 151.3: Transfer Lockers for DECLIC LOCKER XFER activity
- Items 608 & 609: Transfer GSCs per GSC OPS activity
- Transfer cargo from backside bags
- Transfer resupply items in temp stowed M-Bags and restow empty bags

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

- The STS-128 Transfer Team
Nicole and Pat,

Today you will be transferring samples from STS Glacier to ISS MELFI. You will be using a Double Coldbag to protect the science during transfer. Below are some suggestions and constraints to keep in mind while performing this activity. This message should be reviewed in conjunction with procedure {UPLINKED PROCEDURES: US SODF: ASSY OPS: 20-1054 (MSG 040) 17A ASCENT SAMPLE TRANSFER FROM GLACIER TO MELFI}.

1. Minimize Glacier and MELFI door open time to help reduce moisture and protect other samples. Note that standard timing restrictions on MELFI and Glacier do not apply for this activity.

2. Minimize the amount of time that retrieved samples are exposed to ambient air to prevent science warm-up/loss.

3. When samples are removed from Glacier, the packing orientation into the Double Coldbag is not important. The packing diagram in the procedure is simply a suggested guide. However, please pay close attention to the insertion location for these samples when placed into MELFI.

4. Close the Double Coldbag lid except when inserting samples.

5. Close Glacier inner doors except when inserting/removing trays.

6. Re-insert the Glacier trays so that the Velcro on the end of the tray is towards the back of Glacier.

7. If a MELFI tray gets stuck when opening a Dewar, use the Wireway Cover to aid in the removal of the tray.
In order to troubleshoot the inability to get an OCA 48 Meg connection on FD02, please perform the following steps:

1. **Cable Loopback Test**
   
   *This will test the cables that interface between the OCA router and the MUX.*
   
   Perform on page 12-23 of Orb Ops:
   
   **OCA LOOPBACK TEST**
   
   (ORB OPS, PGSC) Step 4
   
   If the Loopback test is successful, report to MCC, otherwise go to Step 2.

2. **Swap OCA I/F Cable**
   
   Swap out the OCA I/F Cable. The spare is located in the Window Shade bag. To install the cable, Ref page 12-9 of Orb Ops, and perform the following:
   
   OCA RTR  PGSC PWR - OFF
   
   **OCA SETUP**
   
   (ORB OPS, PGSC) Step 8
   
   Then PGSC PWR - ON
   
   Inform MCC when complete.
   
   Go to Step 1.

3. **48 Mbps Test**
   
   On MCC Go, reconfigure for OCA 48 Meg to test the config. Ref page 12-20 of Orb Ops, and perform the following:
   
   **RECONFIGURE OCA DOWNLINK RATE**
   
   (ORB OPS, PGSC) Part C - 48 Mbps
   
   Step 4 is not required.
   
   Inform MCC when complete.

4. **Config OCA to 2 Mbps**
   
   On MCC Go,
   
   **RECONFIGURE OCA DOWNLINK RATE**
   
   (ORB OPS, PGSC)
   
   Part D then A, omit Step 4.
   
   Report to MCC when complete.
Below are your crew choice downlink opportunities based on KU availability:

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<td>05/04:05</td>
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Actions for Tool Config:

1. Swap the 5/8" proud socket on the round torque multiplier for the 7/16" flush socket using the torque multiplier tool board.

2. Remove and discard the MISSE PIP Pin pull ring that came free during EVA 1 from EV1’s trash bag.

3. Remove red tape from the load alleviating strap end of all safety tether crew hooks. This will help the team avoid confusing the red tape with the red stripe on load alleviating straps which would indicate damage to the tether.

Pen and Ink Actions for Procedure Review:

4. On FS 7-49, Step 12: (A diagram and additional details of this configuration can be found in the EVA3 Briefing Package (20-1060 or MSG 046)
   WAS: Stow NOD3 Ch 1/4 Cable Bag on Lab HR 0230 with integrated tethers.
   IS: Stow NOD3 Ch 1/4 Cable Bag on LAB HR 0237 (fwd stanchion) and HR 0231 (aft stanchion) using integrated tethers.

5. New steps for QD M4 troubleshooting; add to EVA FS 7-53 at the beginning of Step 22
   1. Inspect QD for debris or damage
   2. Verify detent button fully up and can be depressed easily; Report to MCC-H
   3. Pull bail handle harder towards the closed position (AFT) by holding the FWD end of the QD in one hand and pulling on the bail with the other.
      a. If button is up, go to Step 4
      b. If button not full up or won’t depress, Cycle valve partially open (FWD) while holding down detent button, then firmly in one continuous motion close valve (bail AFT) and verify button pops back up. If button pops up proceed with Step 4.
   4. Pull back on release ring and verify FWD white band is not visible.
      a. If no white band visible, attempt mate of QD using nominal procedures
      b. If white band still visible, attempt mate while holding the release ring aft (like NBL QDs)

Just a reminder: there is Fluid QD hardware onboard if you would like to practice. Any practice would have to be with a 0.75" or 1.0" QD (no 0.5" QDs are available internally). If desired, these QDs are located in CTB1258 at A/L100_Behind Closeout (OBT EVA QD – IVA Use Only). Also there is a Fluid QD CBT which includes a video of a QD in FID but does not show the extra troubleshooting steps we’ve outlined.
6. Question for Danny on M4 QD: Do you recall if the FWD white band was fully visible or partially visible? It is possible that a small piece of the FWD white band can be visible when the ring is retracted. In this case, the QD should operate normally when mating. We still want you to perform the steps above during EVA 2.

7. Due to the number of MMOD strikes that are on the Z1 tool boxes, we will not perform the Cheater Bar Stow Get-Ahead during any STS-128 EVA. Therefore:

   On page FS 7-116 TIMELINE GET-AHEADS - STS-128:
   DELETE: The pen and ink Cheater Bar Stow task

Action for EMU SWAP:
Christer, the MBEDs (Moisture Barrier Earphone Diaphragm) may not seal well on your prime Comm Cap due to pre-flight repairs made in the earcup. The loss of the MBED seal could result in low/no audio for either or both ears. Because of this increased risk, we would like you to use your backup Comm Cap.

Please include following steps in EMU Swap for EVA 2 (EVA, Airlock Config).

EMU 3009 (Fg)
10a. Disconnect helmet
10b. Remove Fg1 comm cap (s/n 1170) and stow in EVA
Return Mesh Bag
EVA Return Mesh Bag
10c. Retrieve Wk1 comm cap (s/n 1208)
EMU 3009 (Fg)
10d. Install Wk1 comm cap (s/n 1208)
10e. Connect helmet

STS-128 Consumables Tracking Cue Card

Please make the following change to the cue card (box on top right)

From: Dump CWC: 1059 for all EVAs
To: Dump CWC: 5085 for all EVAs
EVA3 Briefing Package

This briefing package is to address the changes to EVA3 as a result of the uncertainty in Node 3 final location. By routing only the forward end of each cable, any Node 3 position can be accommodated without undoing work. This is our preliminary summary timeline. A detailed procedure will be uplinked in the FD08 execute package.

NOD3 Avionics Cables:
For the Ch 2/3 avionics cable - routing the forward end of this cable requires a few deltas to the nominal plan. First, this task will be done by EV1 as a single crewmember task. While EV1 performs this task, EV2 will install GPS antennas. If EV1 requires assistance, EV2 can break out of GPS antenna task at any time to help.

EV1 will stow the Ch 2/3 Cable Bag between LAB HR 0211 and the zenith handrail of the port LAB strut. This configuration is shown in the figure below. This keeps the Cable Bag clear of Node 3, and provides the most flexibility for future routing. We assessed tucking this bag under Z1, but had concerns with reaching handrails, and violations of Node 3 installation plane. After the bag is stowed, EV1 will relocate the APFR/TS, if it hasn’t already been completed.

The Ch 2/3 ‘Central’ wire tie (N0129) and the next forward wire tie (N0139) will not be attached to structure. The forward end of the cable will need to be unbundled to the second wire tie (L0222), but instead of attaching this wire to LAB HR 0222 as originally planned, it will be attached to LAB HR 0211. The remainder of the forward end will be routed per the nominal plan, including mating the four electrical connectors to S0 Panel A145.

After mating the connectors, EV1 will still bias the cable toward the bag, securing each wire tie in a final config as he goes. When EV1 reaches the bag, he will coil any loose cable back inside the bag and close it. Finally, when closing it for the final time, ensure all velcro flaps on the bag are completely overlapped (no velcro exposed) leaving it in good config for long duration.
Ch 2/3 Cable Bag Stowage Location (fwd end of cable routed)

For the Ch 1/4 avionics cable - the ‘Central’ wire tie will be attached to LAB HR 0230 as planned. Routing the forward end of the cable and mating electrical connectors will be as per the nominal plan. The aft end will remain strapped inside the bag. To leave the Ch 1/4 Cable Bag in a safe long-duration configuration, it must be tethered to the ISS as shown in the diagram below. One integrated tether should be attached to the forward stanchion of LAB HR 0237, and the other to the aft stanchion of LAB HR 0231. Again, ensure the velcro flaps completely overlap (no velcro exposed).
Ch 1/4 Cable Bag Stowage Location (fwd end of cable routed)

**NOD1 Slidewire:**
Since the NOD3 Ch 2/3 Avionics Bag will remain outside long-term, the slidewire will be stowed in the PMA3 crewlock bag instead of the Avionics Bag. Therefore, when EV1 is complete with PMA3 Heater Cable routing, temp stow that crewlock bag on the equipment lock using the Lg/Sm RET that will be already temp stowed there and the integrated tether. This is instead of stowing it in the A/L. EV2 can then retrieve it from this location before translating to remove the slidewire.

**GPS Antenna**
In the tool config, expect to pack the GPS antennas in a medium ORU bag bundled to the RPCM crewlock bag as was done in the majority of your training.
PAS Deploy:
The following sequence of pictures show the proper steps to open and restrain the EBCS cover, performed at the end of the PAS deploy. We thought Christer would be interested, as he was not able to see these preflight.

1. EBCS Launch Configuration
2. Step 1: Remove Horizontal Strap
3. Step 2: Lift Vertical Straps
4. Step 3: Fold Back and Wrap Underneath
5. Step 4: Attach Vertical Straps
6. Step 5: Attach Horizontal Strap
7. Operational Configuration