# STS-119 / 15A

## *FD 06 Execute Package*

| MSG | Page(s) | Title |
|---|---|---|
| 048A | 1 - 12 | FD06 Flight Plan Revision **(pdf)** |
| 049 | 13 - 14 | FD06 Mission Summary **(pdf)** |
| 050 | 15 - 16 | FD06 Transfer Message **(pdf)** |
| 051 | 17 - 19 | FD05 MMT Summary **(pdf)** |
| 054 | 20 | FD06 EVA Deltas **(pdf)** |
| 055 | 21 - 26 | FD6 Middeck 5 MLE Bag Layouts **(pdf)** |
| 053 | --- | 15A EVA 2 of 3 Procedure **(pdf - Electronic Only)** |
| 056A | --- | Stowage Locations for FD06 **(pdf - Electronic Only)** |
| 057 | --- | STS-119/15A Exercise Constraints FD06-11 **(pdf - Electronic Only)** |
| 058 | --- | NCAA Basketball Championship Brackets, First Round, Part 1 **(pdf - Electronic Only)** |

***Approved by FAO:*** *M. Blanton*

*Last Updated: Mar 20 2009 10:57AM GMT*
***JEDI*** *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX


| MSG NO. | TITLE |
|---|---|
| MSG048 | FD06 Flight Plan Revision |
| MSG049 | FD06 Mission Summary |
| MSG050 | FD06 Transfer Message (18-1304) |
| MSG051 | FD05 MMT Summary |
| MSG052 | FD06 PAO Event Summary (18-1305) |
| MSG053 | 15A EVA 2 of 3 Procedure (18-1302) |
| MSG054 | FD06 EVA Deltas (18-1303) |
| MSG055 | FD06 Middeck 5 MLE Bag Layouts |
| MSG056 | Stowage Locations for FD06 (18-1204) |
| MSG057 | STS-119/15A Exercise Constraints FD06-11 (18-1307) |
| MSG058 | NCAA Basketball Championship Brackets, First Round, Part 1 (18-1309) |


1. CRYO CONFIG

For today's cryo config, O2 Tanks 1 & 2 and H2 Tanks 1 & 5 will be active.

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

**A15 CRYO TK5 HTR O2 A - OFF**

2. ET UMBILICAL WELL CAMERA PHOTOS

We are going to try and download the ET Umbilical Well Camera imagery again. Hopefully an extended camera warm up and rebooting the associated PGSC will allow a successful download. Today MS 2 is scheduled to reboot the STS-4 RPOP machine and then to perform the Umbilical Well TPS Imagery Downloading at MET 4/18:30. Eight hours before the activity is scheduled INCO will command the camera on, and once complete INCO will command the camera off.

3. ISS PAO EVENT ON STS ASSETS

The ISS PAO event occurring at MET 004/18:20 will be in Node 2 using the drag-thru BPSMU via shuttle A/G 2 and Ku-Band.

Prior to the event (at ~ MET 004/18:16), verify on pnl R12 the orbiter VPU is on and the Green Jumper is in the ISS slot. Additionally, verify the Airlock ATU has A/G 2 in T/R. We will remind you of this when we get close to the event. CATO will configure the Lab Camera routing to the Orbiter and INCO will verify the video routing via SSV.

The ISS PAO event is contingent on SAW deploy operations and may be cancelled if this activity runs long.

4. CONDENSATE COLLECTION

To help us determine how much extra condensate is being collected by the ISS with the change in the H2O loop config performed two days ago, an activity has been added to your Flight Plan (PLT, 4/14:45) to terminate condensate collection in the CWC for approximately 24 hours. The condensate will go into the waste tank for 24 hrs and that'll help us gauge our collection rate. Condensate Collection in the CWC will resume after the FD7 dump.

5. DUMP PREGATHER DETAILS

To prepare for the water dump on FD07, we've added an activity to the Flight Plan today called GATHER DUMP EQUIPMENT on PLT at 4/23:00. Pregather the following equipment and temp stow on the middeck for the waste, CWC, and PWR dumps tomorrow:

a) Condensate CWC s/n 5076 (Temp Stowed)
b) M-02 Bag - PWR s/n 1026
c) Break Out Box Locker (MF28H): Waste Water Dump (WWD) Filter
d) Contingency Hose and Cable Kit (CHCK) in the window shade bag: SPLY H2O Dumpline Purge Device, B-B hose, R-Y QD adapter and 8 ft Y-Y hose.

6. REPLACE PAGES 2-18, 2-20 and 3-56 THROUGH 3-63.

**NO EXERCISE**
During SAW Deploy & USTO

**REPLANNED**

GMT 03/20/09 (079) — 12 13 14 15 16 17 18 19 20 21 22 23 005/00

MET Day 004 — 12 13 14 15 16 17 18 19 20 21 22 23

| | | |

**REPLANNED**

GMT 03/20/09 (079) 03/21 01 02 03 04 05 06 07 08 09 10 11

MET Day 005 005/00 01 02 03 04 05 06 07 08 09 10 11 12

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| STS-119 | **FD06** **R3** CDR ARCHAMBAULT | EVA 2 PROC RVW | PMC A/G | PRE SLEEP | | | | SLEEP |
| STS-119 | **R1** PLT ANTONELLI | EVA 2 PROC RVW | PRE SLEEP | | CMPOUT PRB INIT | PRE SLEEP | | SLEEP |
| STS-119 | **R2** MS1 ACABA | EVA 2 PROC RVW | PRE SLEEP | | EVA CAMPOUT PRB INIT | | PRE SLEEP | SLEEP |
| STS-119 | MS2 SWANSON | EVA 2 PROC RVW | PRE SLEEP | | EVA CAMPOUT PRB INIT | 10.2 DPRS | PRE SLEEP | SLEEP |
| STS-119 | MS3 ARNOLD | EVA 2 PROC RVW | CREW* | XFER TAGUP | XFER BRIEF | PRE SLEEP | | SLEEP |
| STS-119 | **M1** MS4 PHILLIPS | EVA 2 PROC RVW | MDU KS# | PRE SLEEP | | | | SLEEP |
| DN | FE-2 MAGNUS | WRS RACK CLOSE | DA PACK XFER | DPC | PREP | PRE SLEEP-ISS | | SLEEP |
| EXP-18 | ISS CDR FINCKE | EVA 2 PROC RVW | | DPC | PREP | PRE SLEEP-ISS | | SLEEP |
| EXP-18 | FE-1 LONCHAKOV | TVIS | Π-16 ACT | PREP | DPC | PREP | PRE SLEEP-ISS | SLEEP |
| UP | **M2** FE-2 EXP18 WAKATA | EVA 2 PROC RVW | | DPC | PREP | PRE SLEEP-ISS | | SLEEP |

DAY/NIGHT

ORBIT 80 81 82 83 84 85 86 87 88

TDRS W E Z

TDRS ISS AVAIL

ORB ATT BIAS -XLV -ZVV

NOTES
*CHOICE D/L
#STATUS CK

# STS-119 FD (06)

GMT Date 03/20 (079) | W | TDRS E | Z | D/N | DORB | ORB | MET Day 004 | STS ATT

CDR ARCHAMBAULT | PLT ANTONELLI | MS1 ACABA | NOTES

12:00 — 13:00 — 14:00 — 15:00 — 16:00

STS ATT: BIAS-XLV-ZVV

SAW DEPLOY

DORB 14 72 / 15 73 / 1 74 / 2 75

**FD06 EZ ACTIVITIES:**
√OCAC FILTER & MDDK DUCT SCREEN
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES) & STS-5(RPOP2)

A A14 RCS/OMS HTR R POD -B OFF
-A AUTO

B WCS CRADLE - AUTO INHIBIT
Inspect hose block filter,
change if req'd
WCS CRADLE - AUTO

**CDR ARCHAMBAULT**

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- RCS/OMS POD HTR RECONFIG A
- I'CNCT: L OMS TO RCS (ORB PKT, RCS)
- √A12/FREE/VERN
  When ISS is Free Drift, DAP: LVLH,
  When rates < 0.1, DAP: FREE>2 SEC,
  then DAP: AUTO
- MNVR TO 1B DEPLOY
  R=137 P=7 Y=34
  A12/AUTO/VERN, Init MNVR
- IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
- SAW DEPLOY CREW TAGUP
- EPS: 1.3.452 XX SAW DEPLOY
  Steps 15.3, 15.6-15.9 (1B Only)

**PLT ANTONELLI**

- FLIGHT SLEEP LOG (ORB OPS, SDBI)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SHUTTLE CONDENSATE TERM
  Disconnect Condensate CWC from Y-Y Hose
  (Catch any water droplets with towel)
  Temp Stow CWC for FD7 Dump
  ML31C WASTE H2O TK1 DRAIN VLV-OP (tb-OP)
  Ref. MSG 048 Item 4
- WCS FILTER CHECK B
- SAW DEPLOY CREW TAGUP
- EPS: 1.3.452 XX SAW DEPLOY
  Steps 15.3, 15.6-15.9 (1B Only)

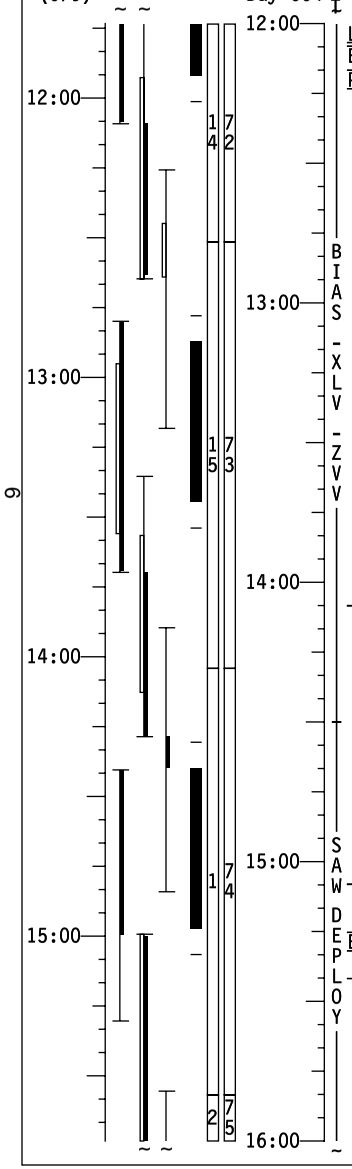
**MS1 ACABA**

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EXERCISE
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SAW DEPLOY CREW TAGUP
- EPS: 1.3.452 XX SAW DEPLOY
  Steps 15.3, 15.6-15.9 (1B Only)

**NO EXERCISE DURING SAW DEPLOY**

# STS-119 FD (06)

GMT Date 03/20 (079) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 004 | STS ATT




## MS2 SWANSON

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

EXERCISE

SAW DEPLOY CREW TAGUP
EPS: 1.3.452 XX SAW DEPLOY
Steps 15.3, 15.6-15.9 (1B Only)

## MS3 ARNOLD

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

SAW DEPLOY CREW TAGUP
EPS: 1.3.452 XX SAW DEPLOY
Steps 15.3, 15.6-15.9 (1B Only)

## MS4 PHILLIPS

FLIGHT SLEEP LOG (ORB OPS, SDBI)
LIQUID SLVA SAMPLE(ORB OPS,SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG 050

DA UNPACK & TRANSFER
Ref. Transfer List: Resupply
Items 5, 5.1 & 9.12

MDDK ST CK (ASSY OPS, PAYLOADS)Step 1 only

SAW DEPLOY CREW TAGUP
EPS: 1.3.452 XX SAW DEPLOY
Steps 15.3, 15.6-15.9 (1B Only)

NOTES

**NO EXERCISE DURING SAW DEPLOY**

6

# STS-119 FD (06)

GMT Date 03/20 (079) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 004 | STS ATT

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

SAW DEPLOY

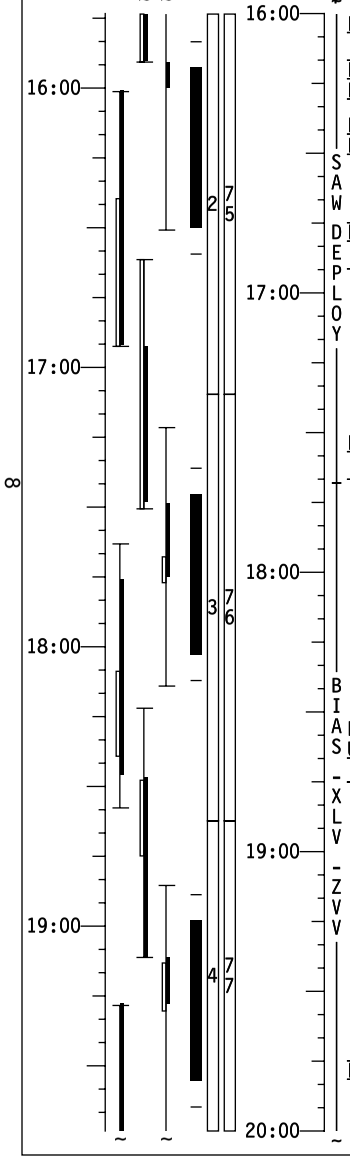
BIAS -XLV -ZVV

| CDR ARCHAMBAULT | PLT ANTONELLI | MS1 ACABA | NOTES |
|---|---|---|---|
| EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.6-17.10 (1B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.6-17.10 (1B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.6-17.10 (1B Only) | |
| | SAW DEPLOY VIEWING<br>(PDRS, VIEWING SUPPORT)<br>Step 3 | SAW DEPLOY VIEWING<br>(PDRS, VIEWING SUPPORT)Step 3<br>EVA SYSTEMS: 1.605 BSA BATTERY RECHARGE<br>Terminate Steps 13-17, 19-21<br>Ref. Battery Recharge Plan<br>Ref. MSG 054 | |
| EPS: 1.3.452 XX SAW DEPLOY<br>Steps 15.3, 15.6, 15.7 & 15.9 (3B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Steps 15.3, 15.6, 15.7 & 15.9 (3B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Steps 15.3, 15.6, 15.7 & 15.9 (3B Only) | **NO EXERCISE DURING SAW DEPLOY** |
| EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.7, & 17.10 (3B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.7, & 17.10 (3B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.7, & 17.10 (3B Only) | UPLINK<br>β21 + Mask Boxes 40, 60, 59 |
| N2 RPRS USING P/L N2 VLV<br>(ORB OPS, ECLS)<br>Perform REPRESS SETUP AND INIT<br>Steps 1, 3-7, MCC will TMBU S/W FDA | FILTER CLEANING<br>(IFM, SCHEDULED MAINTENANCE)<br>Inspect filters and clean as necessary | | NO EXERCISE USTO MNVR |
| UPDATE UNIV PTG (POST SAW DEPLOY TEA)<br>MNVR (TRK) BIAS -XLV -ZVV<br>TG=2 BV=5 P=162 Y=359 OM=187<br>A12/FREE/VERN, Init TRK | SHUTTLE/ISS H2O CNTR FILL<br>(ORB OPS, ECLS) Init Fill #4<br>Ref MSG 035 | | |
| MEAL | MEAL | MEAL | |
| N2 REPRESS USING P/L N2 VALVES C<br>TRANSFER OPS<br>Ref. Transfer List & MSG 050 | SHUTTLE/ISS H2O CNTR FILL<br>(ORB OPS, ECLS)<br>Perform FILL TERMINATION | EMU SWAP FOR EVA 2<br>(EVA, AIRLOCK CONFIG) | |

C (ORB OPS, ECLS)
Perform REPRESS TERM AND RECONFIG
Steps 8-13, MCC will TMBU S/W FDA

# STS-119 FD (06)

GMT Date 03/20 (079) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 004 | STS ATT




| MS2 SWANSON | MS3 ARNOLD | MS4 PHILLIPS | NOTES |
|---|---|---|---|
| EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.6-17.10 (1B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.6-17.10 (1B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.6-17.10 (1B Only) | |
| EVA SYS: 1.635 REBA RECHARGE FROM PSA UTILITY OUTLET Terminate Steps 15-27<br>Ref. Battery Recharge Cue Card<br>EVA SYSTEMS: 1.625 EMU BATTERY RECHARGE FROM PSA UTILITY OUTLET Initiate Steps 1-8<br>Ref. Battery Recharge Plan | | | |
| EPS: 1.3.452 XX SAW DEPLOY<br>Steps 15.3, 15.6, 15.7 & 15.9 (3B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Steps 15.3, 15.6, 15.7 & 15.9 (3B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Steps 15.3, 15.6, 15.7 & 15.9 (3B Only) | **NO EXERCISE DURING SAW DEPLOY** |
| EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.7, & 17.10 (3B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.7, & 17.10 (3B Only) | EPS: 1.3.452 XX SAW DEPLOY<br>Step 17.3, 17.7, & 17.10 (3B Only) | |
| | | ROBO: 1.300 SSRMS MNVR TO EVA 2 VIEWING<br>Steps 1 and 2 | NO EXERCISE USTO MNVR |
| Reboot the RPOP PGSC, then perform UMBILICAL WELL TPS CMRA IMAGERY DOWNLOADING (ORB OPS C/L,PGSC)Ref. MSG 048 Item 2 | | | |
| MEAL | MEAL | MEAL | |
| EMU SWAP FOR EVA 2<br>(EVA, AIRLOCK CONFIG) | TRANSFER OPS<br>Ref. Transfer List & MSG 050 | TRANSFER OPS<br>Ref. Transfer List & MSG 050 | |

SAW DEPLOY

BIAS - XLV - ZVV

# STS-119 FD (06)

GMT Date 03/20 (079) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 004 | STS ATT

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

BIAS - XLV - ZVV

| CDR ARCHAMBAULT | PLT ANTONELLI | MS1 ACABA | NOTES |
|---|---|---|---|
| TRANSFER OPS<br>Ref. Transfer List & MSG 050 | CWC TRANSFER<br>Transfer 1 CWC to ISS | EMU SWAP FOR EVA 2<br>(EVA, AIRLOCK CONFIG) | |
| | TRANSFER OPS<br>Ref. Transfer List & MSG 050 | EVA SYSTEMS: 1.403 REBA POWERED HARDWARE CHECKOUT | |
| | | EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP | |
| | | EVA 2 OF 3 TOOL CONFIG<br>Ref. MSG 053 | |
| | EXERCISE | EVA 2 OF 3 TOOL AUDIT<br>Ref. MSG 053 | |
| SAW DEPLOY VIEWING (PDRS, VIEWING SUPPORT)<br>Step 4 | SAW DEPLOY VIEWING (PDRS, VIEWING SUPPORT)<br>Step 4 | MOP (ASSY OPS, PAYLOADS) | |
| | GATHER DUMP EQUIPMENT<br>Ref. MSG 048 Item 5 | PRE-SLEEP ACTIVITY<br>(ORB OPS, CREW SYS) | |
| ARED | | | |
| | MOP (ASSY OPS, PAYLOADS) | | |

# STS-119 FD (06)

GMT Date 03/20 (079) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 004 | STS ATT

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

4 7 7 5 7 8 6 7 9 7 8 0

BIAS - XLV - ZVV

## MS2 SWANSON

- EMU SWAP FOR EVA 2 (EVA, AIRLOCK CONFIG)
- EVA SYSTEMS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT Install METOX Canisters/Batt Ref. Updated Consumables CC
- EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
- EVA 2 OF 3 TOOL CONFIG Ref. MSG 053
- EVA 2 OF 3 TOOL AUDIT Ref. MSG 053
- MOP (ASSY OPS, PAYLOADS)
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

## MS3 ARNOLD

- TRANSFER OPS Ref. Transfer List & MSG 050
- P/TV09 GLACIER (PHOTO/TV, SCENES) Video
- TRANSFER OPS Ref. Transfer List & MSG 050
- MOP (ASSY OPS, PAYLOADS)
- MDDK ST CK (ASSY OPS, PAYLOADS)Step 1 only
- EVA 2 OF 3 TOOL AUDIT Ref. MSG 053
- EXERCISE

## MS4 PHILLIPS

- TRANSFER OPS Ref. Transfer List & MSG 050
- EXERCISE ARED AVAILABLE FOR USE

NOTES

**REPLANNED**

# STS-119 FD (06)

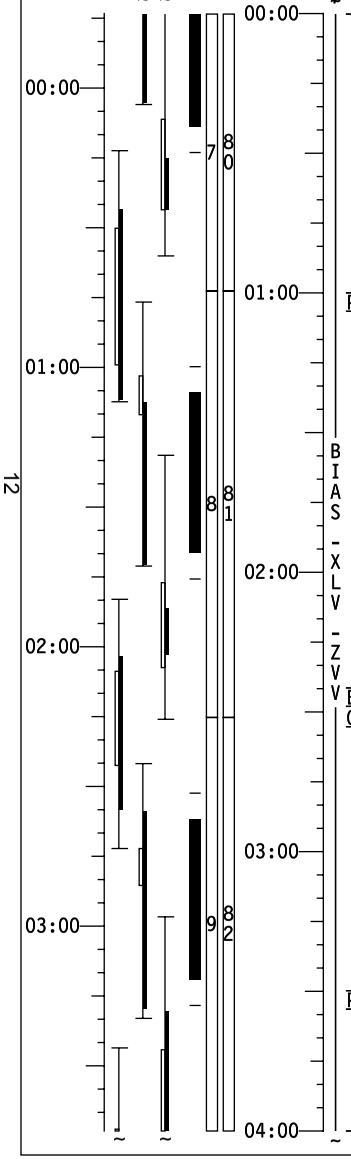
GMT Date 03/20 (079) | W | TDRS E | Z | D/N | DORB 7 8 9 | ORB 80 81 82 | MET Day 005 | STS ATT BIAS -XLV -ZVV

| CDR ARCHAMBAULT | PLT ANTONELLI | MS1 ACABA | NOTES |
|---|---|---|---|
| EVA 2 OF 3 PROCEDURE REVIEW<br>Ref. MSG 053 & MSG 054 | EVA 2 OF 3 PROCEDURE REVIEW<br>Ref. MSG 053 & MSG 054 | EVA 2 OF 3 PROCEDURE REVIEW<br>Ref. MSG 053 & MSG 054 | |
| PRIVATE MEDICAL CONFERENCE | PRE-SLEEP ACTIVITY<br>(ORB OPS, CREW SYS) | PRE-SLEEP ACTIVITY<br>(ORB OPS, CREW SYS) | |
| PRE-SLEEP ACTIVITY<br>(ORB OPS, CREW SYS)<br>√HUM SEP FOR H2O ACCUMULATION | | | |
| | EVA SYSTEMS: 1.206 10.2 PSIA<br>CAMPOUT MASK PREBREATHE<br>REF: EVA 2 OF 3 TOOL CONFIG & MSG 053 | EVA SYSTEMS: 1.206 10.2 PSIA<br>CAMPOUT MASK PREBREATHE<br>REF: EVA 2 OF 3 TOOL CONFIG & MSG 053 | |
| | PRE-SLEEP ACTIVITY<br>(ORB OPS, CREW SYS) | | |
| | | PRE-SLEEP ACTIVITY<br>(ORB OPS, CREW SYS) | |

**CREW WAKE at 05/12:00**

# STS-119 FD (06)

GMT Date 03/20 (079) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 005 | STS ATT




BIAS - XLV - ZVV

## MS2 SWANSON

EVA 2 OF 3 PROCEDURE REVIEW
Ref. MSG 053 & MSG 054

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: 1.206 10.2 PSIA
CAMPOUT MASK PREBREATHE

REF: EVA 2 OF 3 TOOL CONFIG & MSG 053

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

## MS3 ARNOLD

EVA 2 OF 3 PROCEDURE REVIEW
Ref. MSG 053 & MSG 054

PLAYBACK OPERATIONS (CREW CHOICE)
(P/TV, CC) KU TDRW (00:47-01:15)

TRANSFER TAGUP
Coordinate with transfer counterpart

TRANSFER BRIEF
Call down status to MCC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

## MS4 PHILLIPS

EVA 2 OF 3 PROCEDURE REVIEW
Ref. MSG 053 & MSG 054

MDDK ST CK (ASSY OPS, PAYLOADS)Step 1 only

MUS (ASSY OPS, PAYLOADS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NOTES

**CREW WAKE at 05/12:00**

MSG 049 - FD06 MISSION SUMMARY

Good Morning Discovery!

No task too large (attaching the LAST piece of U.S.-built hardware to ISS) or small (ergometer repair) for this crew. Very satisfying day yesterday!

YOUR CURRENT ORBIT IS: 197 X 185 NM

NOTAMS:

**NOTAMS - NO CHANGES**

| | |
|---|---|
| EDW - | EDW IN USE. EDT ELS DAY / VFR ONLY. |
| EDW - | LAKEBED RUNWAYS RED - WET. |
| NOR - | LAKEBED RUNWAYS GREEN. |
| FMH - | TACAN PVD103 DME ONLY. |
| DOV - | RWY 14/32 CLOSED. |
| MRN - | TACAN AOG23 OTS. |
| WAK - | TACAN AWK82 OTS. |
| HAW - | TACAN ASI59 DME OTS. |
| AMB - | RWY 15/33 CLOSED. |
| IKF - | NOT USABLE. NO AGREEMENT. |
| BEN - | NOT RECOMMENDED/NOT SUPPORTED. |

NEXT 2 PLS OPPORTUNITIES:

| | | | | |
|---|---|---|---|---|
| EDW22 ORB | 79 – 4/22:46 | FEW120 SCT200 | 7 | 220/12P18 |
| EDW22 ORB | 95 – 5/23:13 | SCT080 BKN150 BKN200 | 7 | 250/15P25 |

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 = 36.1 R OMS OX = 35.8
FU = 35.6 FU = 35.8
Subtract interconnect counter for current OMS quantities.

END OF PAGE 1 OF 2, MSG 049

MSG 049 - FD06 MISSION SUMMARY

DELTA V AVAILABLE:

| | |
|---|---|
| OMS | 374 FPS |
| ARCS (TOTAL ABOVE QTY1) | 44 FPS |
| TOTAL IN THE AFT | 418 FPS |
| ARCS (TOTAL ABOVE QTY2) | 77 FPS |
| FRCS (ABOVE QTY 1) | 31 FPS |
| AFT QTY 1 | 82 % |
| AFT QTY 2 | 44 % |

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

END OF PAGE 2 OF 2, MSG 049

John & Ricky,

Wow! You and your crewmates are making excellent progress on transfer and are running ahead of schedule.

There are several items that will transfer per activities today, which are listed below in your choreography. For your other scheduled transfer time, you can complete the few remaining unconstrained resupply items and then focus on return!

Today as part of your transfer list changes, we have added two Jettison Stowage Bags of crew quarters foam for return. These are fairly nondescript, so when you are ready to transfer them, you can ask your ISS crewmates for help in identifying the correct bags. These will be returning in the shuttle airlock and it is important that they contain foam only. You will have to dig out some ziplocks of bolts, and this is reflected in your transfer list details uplinked today. Thanks for your extra effort to get this foam off ISS!

The Transfer List Excel file, FD06_Transfer_List_STS119.xls, locations are:

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

<u>FD06 Transfer Choreography</u>

- Resupply Items 6.1.1, 9.4.1 & 10.3: These are the only remaining resupply items not associated with a scheduled task
- John & Koichi: Resupply Items 5, 5.1 & 9.12: Transfer Bag E and new UPA DA per UPA Unpack & Transfer activity. Also transfer ziplock of UPA hardware for use during R&R
- Sandy & Koichi: Resupply Item 4, 17 & Return Item 722: Transfer Glacier and IVA handle per Glacier Transfer activity
- Mike: Return Item 726: Transfer microbial sample per EHS-WATER-T+2 activity
- Koichi: Resupply Item 16 & Return Item 711: Transfer CD stowage cases per OPSLAN-CD/MEDIA-XFER activity
- Sandy: Return Item 732: Transfer old UPA DA per DA Pack & Transfer activity

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

In the Transfer List **RESUPPLY** tab
Pen & Ink on the following page:
Resupply 6 - Item 9.12: change FD07 to FD06 in the notes

In the Transfer List **RETURN** tab
Replace the following pages:
Return 10 & 11

**Changes to the Transfer List are detailed below:**

<u>RESUPPLY</u>
Item 9.12 – updated flight day of activity

RETURN
Item 732 – updated flight day of activity
Item 735 – corrected hardware details
Item 904 – new item
Item 905 – new item

FD07 Transfer Choreography

- Yury: Return Item 735: Transfer Russian Central/Terminal Computer to shuttle

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

- The 15A Transfer Team

FD05 MMT Summary

The FD05 MMT met briefly to review mission progress. The crew and Discovery continue to perform in an outstanding fashion.

**Mission Duration:** The team discussed the options that are available to modify the duration of the mission to better accommodate the return of the 15A Cold bag payload samples once they are transferred to the shuttle for their return to Earth. No decisions were made, but two options will be considered further. One option preserves the original landing date on FD14 while the other option lands one day earlier on FD13. In concert with these discussions, both the Shuttle and the Station Programs want to increase the ability to have STS-119 land at KSC to preserve downstream shuttle manifest options. Therefore, the team will assess consumable management strategies that preserve EOM+3 capability for whichever option is selected.

**Damage Assessment Team Summary:** Nine TPS items were investigated and all have been cleared for entry except for one protruding Ames gap filler, located on the underside surface of the left-inboard elevon. The team is rigorously working through this item and they expect to complete their analysis tomorrow. The following figures summarize the locations that were investigated by the Damage Assessment Team.

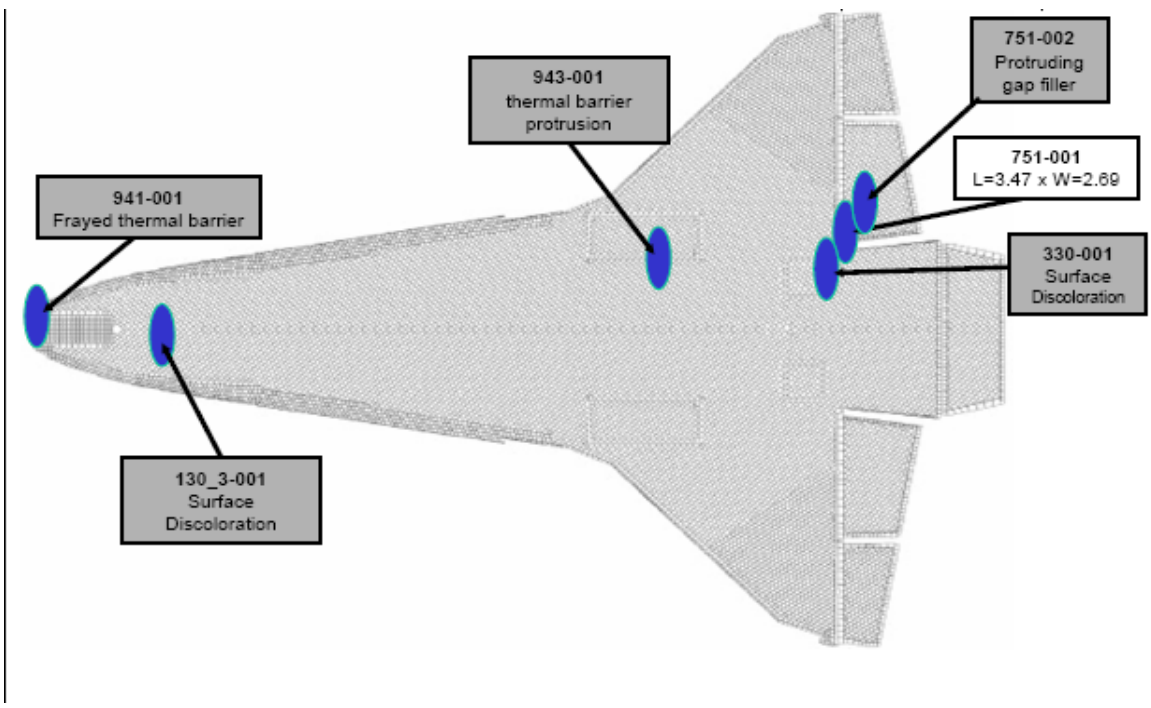



**Figure 1. Lower Surface Areas of Investigation**

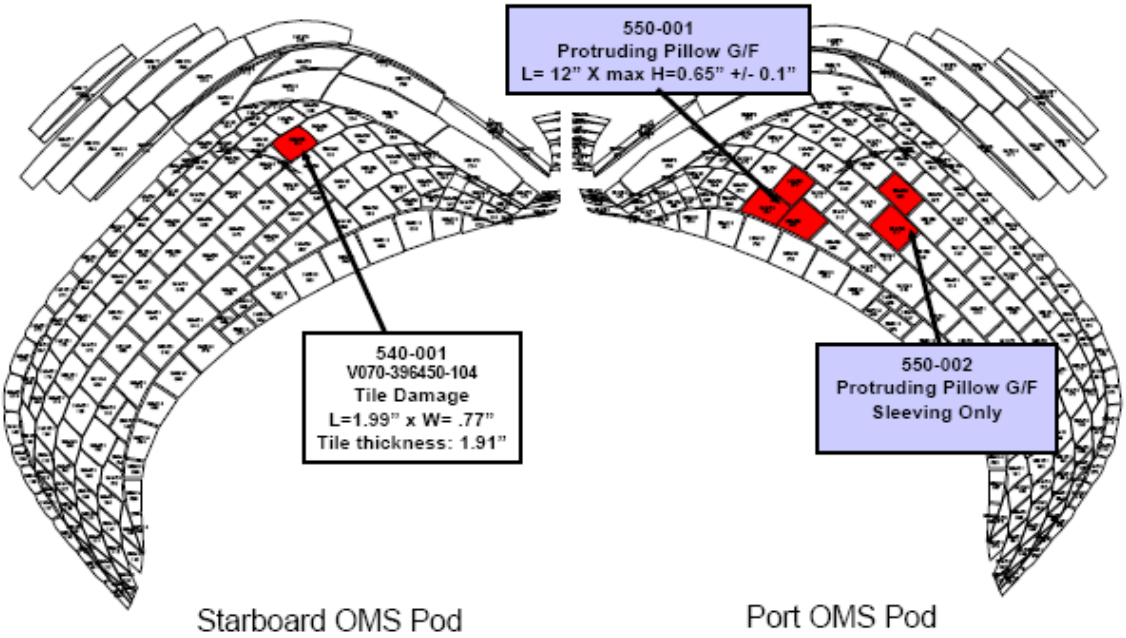



**Figure 2. OMS Pod Tile Damage and Protruding Gap Fillers that have been cleared**

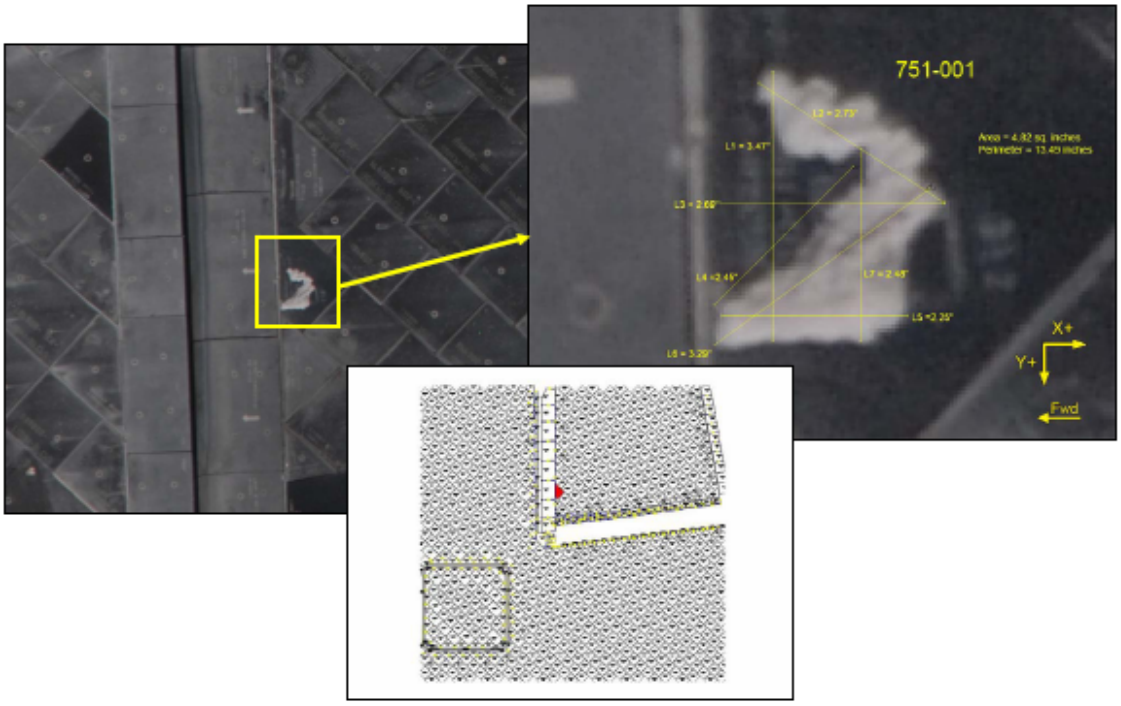



**Figure 3. Left Inboard Elevon Tile Damage site that has been cleared**

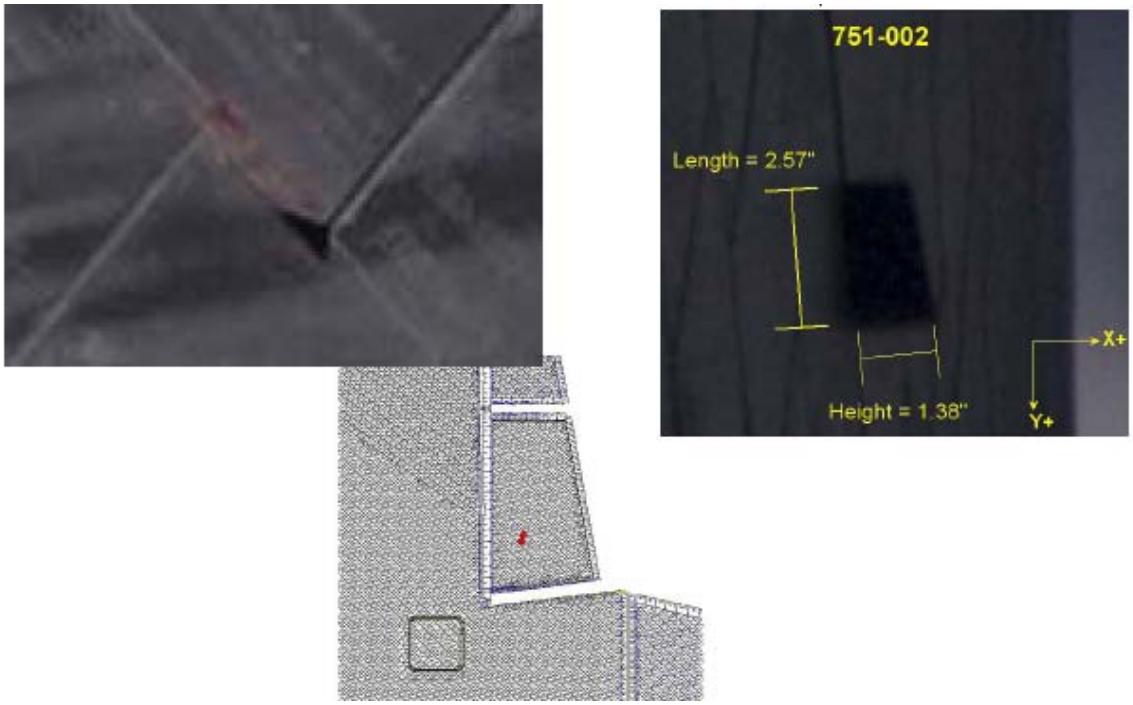



**Figure 4. Left Inboard Elevon Protruding Gap Filler**

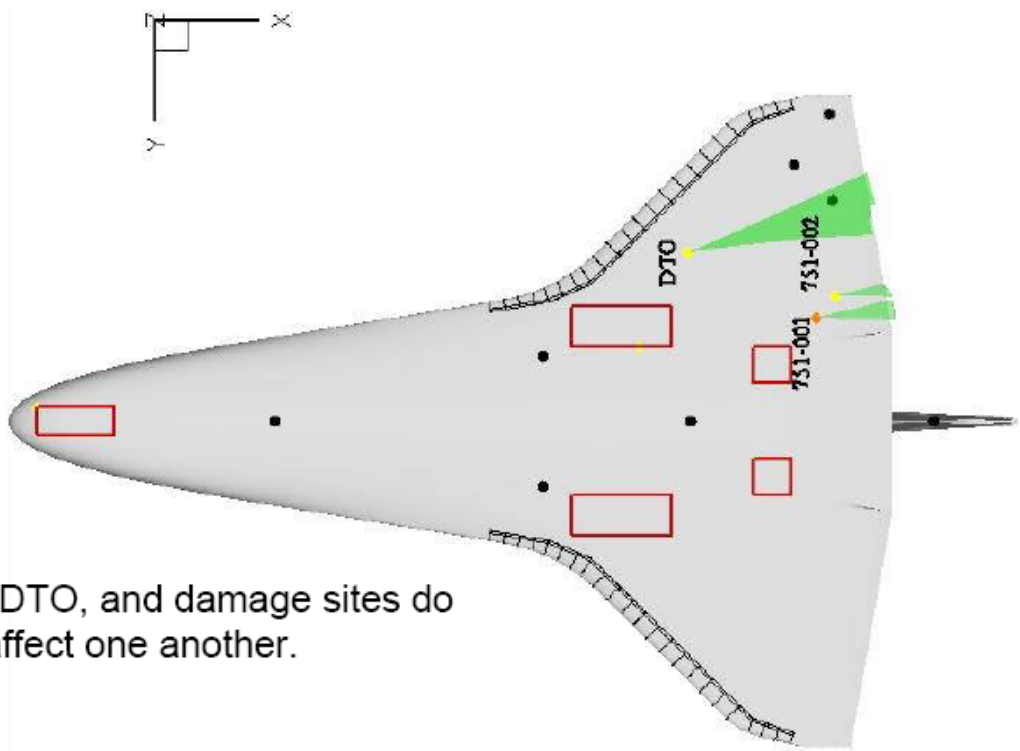



**Figure 5. Benign Flow Interaction with the Boundary Layer Transition DTO**

FD6 EVA Deltas
Swanny, Ricky, & Joe,

Great work on EVA 1. The team here was excited to see S6 attached and to see the PVR deployed. We are looking forward to SAW deploy and then on to EVA 2.

We have uplinked the new 15A EVA 2 of 3 procedure MSG 053 (MSG 18-1302). This will replace EVA 2 in the Shuttle EVA checklist completely. During the tool config we will be ready to copy any deltas as we discussed. The timeline has been updated with inputs from the flight control team. Most of the comments were related to the inhibit pad, but two are of particular interest to you: Photo/TV has provided a starting focus setting for the IR camera and a note has been placed for Swanny in the Battery Prep procedure about using an APFR to release the torque on one of the batteries.

EVA thermal analysis indicates temperatures for PMA 1 & 2 will exceed the EMU extended contact limit, so the crew should avoid prolonged contact with these surfaces. Also during the Radiator Imagery task, EV3 should keep his visor down when working close to the PMA.

Since IR camera imagery is now on EVA 2, your note on page 58 of the ISS EVA Systems checklist should now refer to EVA 2 IR Camera instead of EVA 4.

FYI: for your procedure review, the Port SARJ will be locked at 0 deg during the EVA 2 port tasks with the BGAs as follows; 2B at 267 deg, and 4A at 278 deg. During the S3 PAS deploy the Stbd SARJ will be locked at 45 deg. Prior to Radiator Imagery both TRRJs will be locked at 0 (parallel to the truss) and post Radiator Imagery the Stbd TRRJ will be locked at 0.

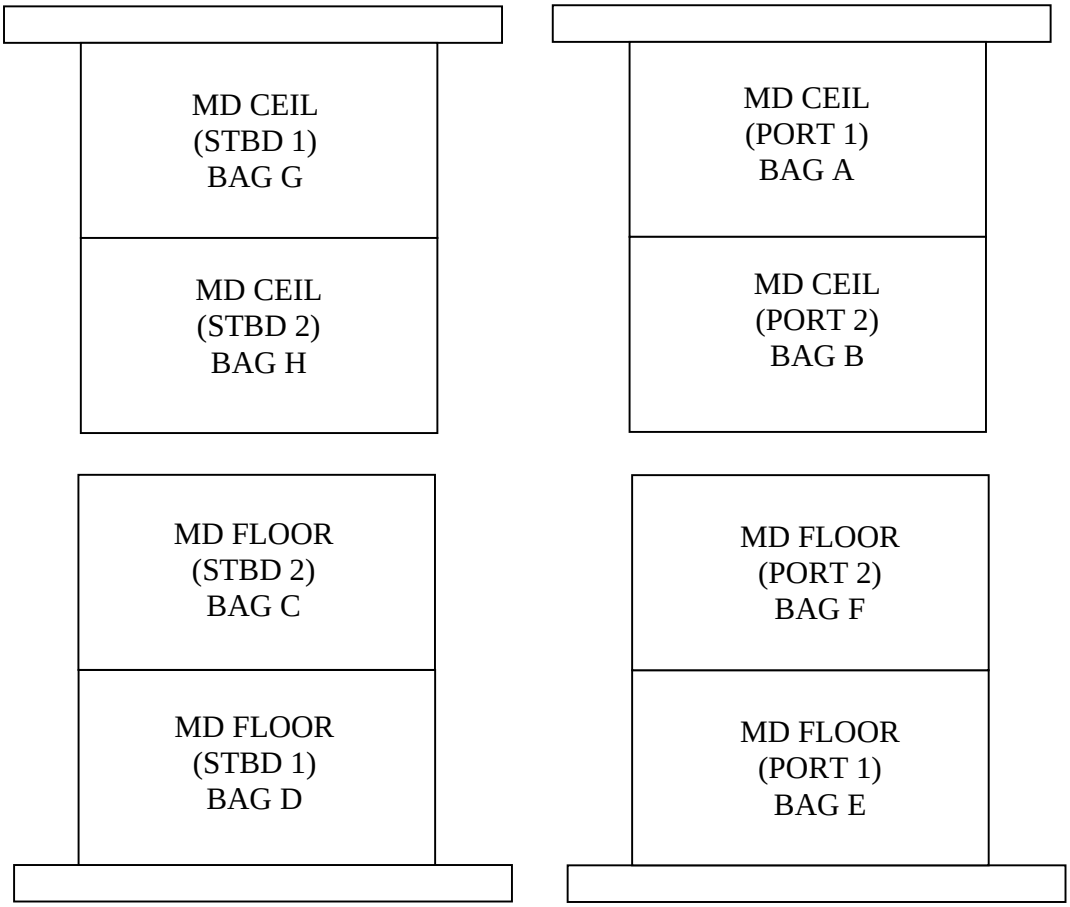
We experienced an error charging PGT battery s/n 1008 last night. We have several spares onboard, so we will use s/n 1004 for the remainder of the mission. Please make the following 3 Pen and Inks:

STS-119 Consumables Tracking Cue Card (MSG 17A/18-1272A)
1. EVA2, EV1, PGT Battery: WAS: 1008
IS: 1004
2. EVA3, EV3, PGT Battery: WAS: 1008
IS: 1004

STS-119 Battery Recharge Plan (MSG 18A/18-1273A)
3. Post EVA 2 (FD7), Blue block BC2 CH5: WAS s/n 1008
IS: s/n 1004

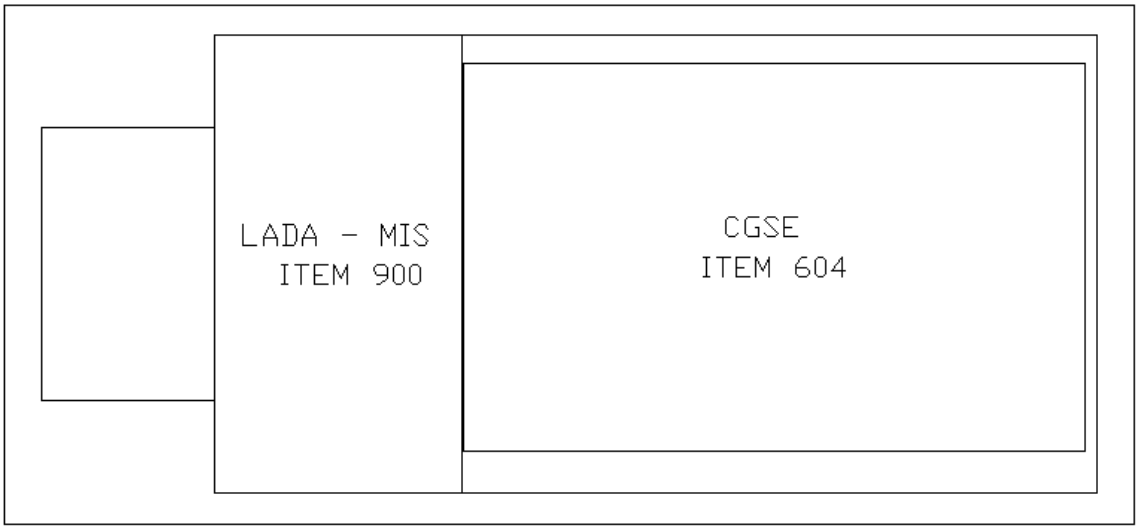
Good morning STS-119 crew. The following pages contain the current 5-MLE Bag layouts along with an updated Return Locker Layout. The Bag I (External Airlock) layout will be uplinked via another message on FD08. Any updates to the layout will be submitted via an additional message.

-The STS-119 Middeck Stowage Team



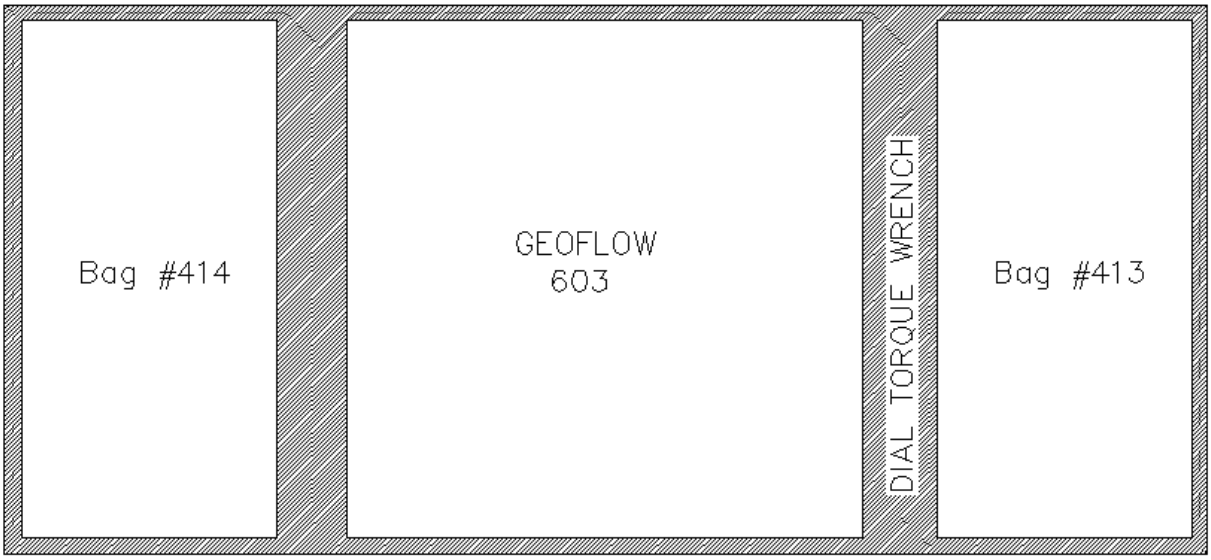

VIEW: DITCH LOOKING AFT

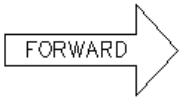
TOP VIEW OF BAG B




PLACE RUBBER RUSSIAN BAG, ITEM 733 ON TOP OF CGSE.
PERIMETER FOAM OF BAG B CAN BE REMOVED IF NECESSARY.
STOW CGSE WITH "TOP" SIDE FACING BOTTOM OF BAG.
ARRANGE REMAINING CUSHION TO BEST FIT INSIDE BAG.

TOP VIEW OF BAG A

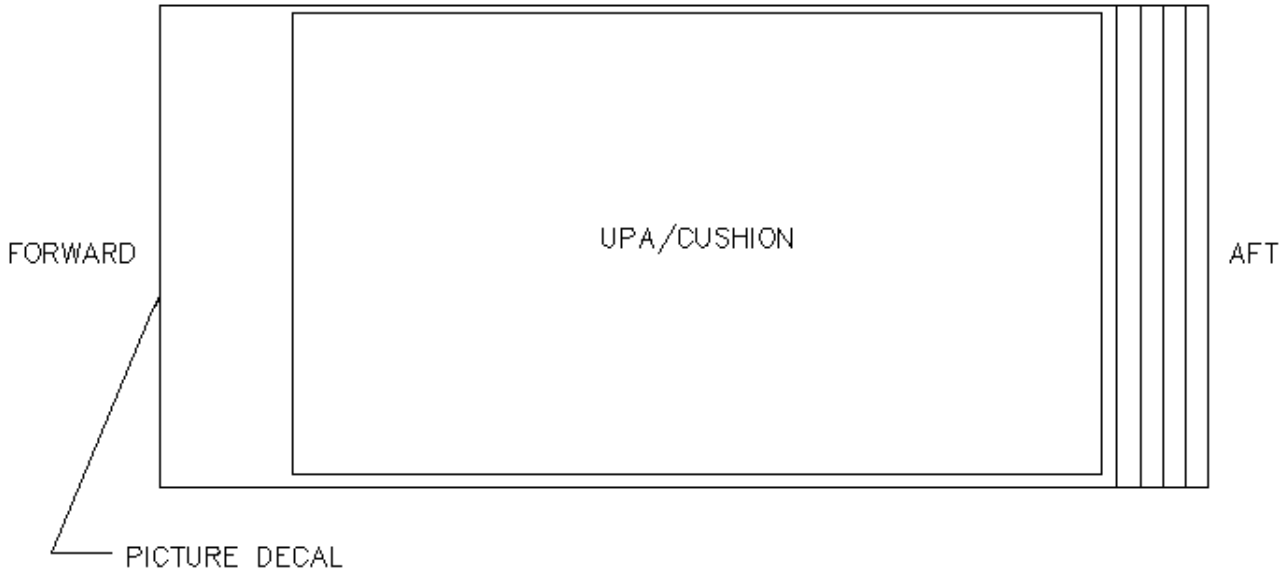



PLACE GEOFLOW AS CLOSE TO CENTER OF BAG AS POSSIBLE.
FILL HATCHED AREA (GREY AREA) WITH CUSHION/CLOTHING.

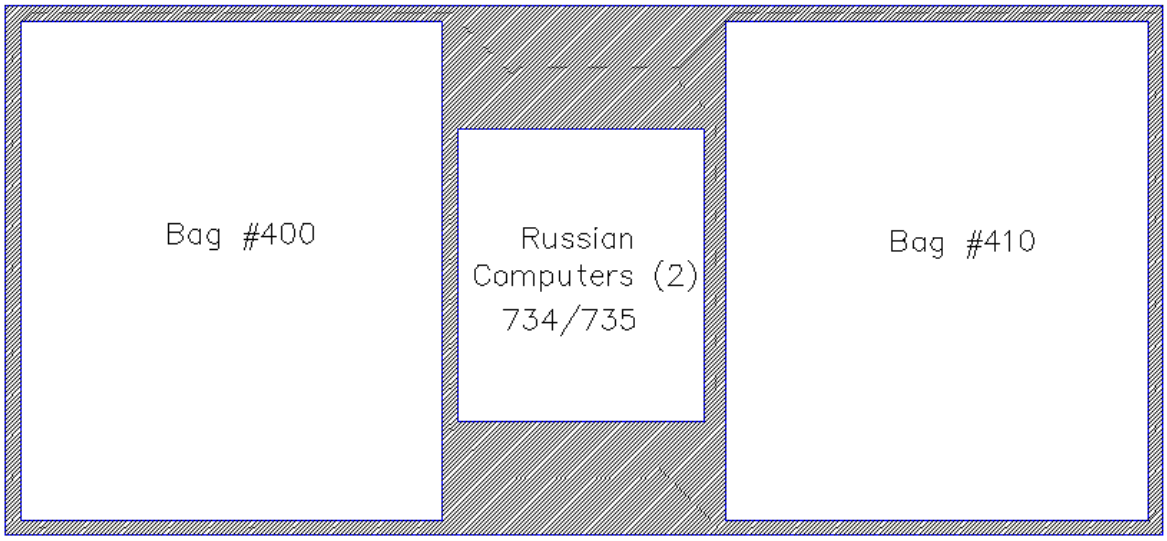
NOTE: DIAL TORQUE WRENCH IS ITEM NO. 706 ON TRANSFER LIST.

TOP VIEW OF BAG E

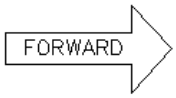



NOTE: UPA DA IS LINE ITEM NO. 732 ON TRANSFER LIST.

TOP VIEW OF BAG F




EXISTING FOAM – 2 PIECES REMAIN INSIDE BOTTOM OF BAG.
FILL HATCHED AREA (GREY AREA) WITH CUSHION/CLOTHING.

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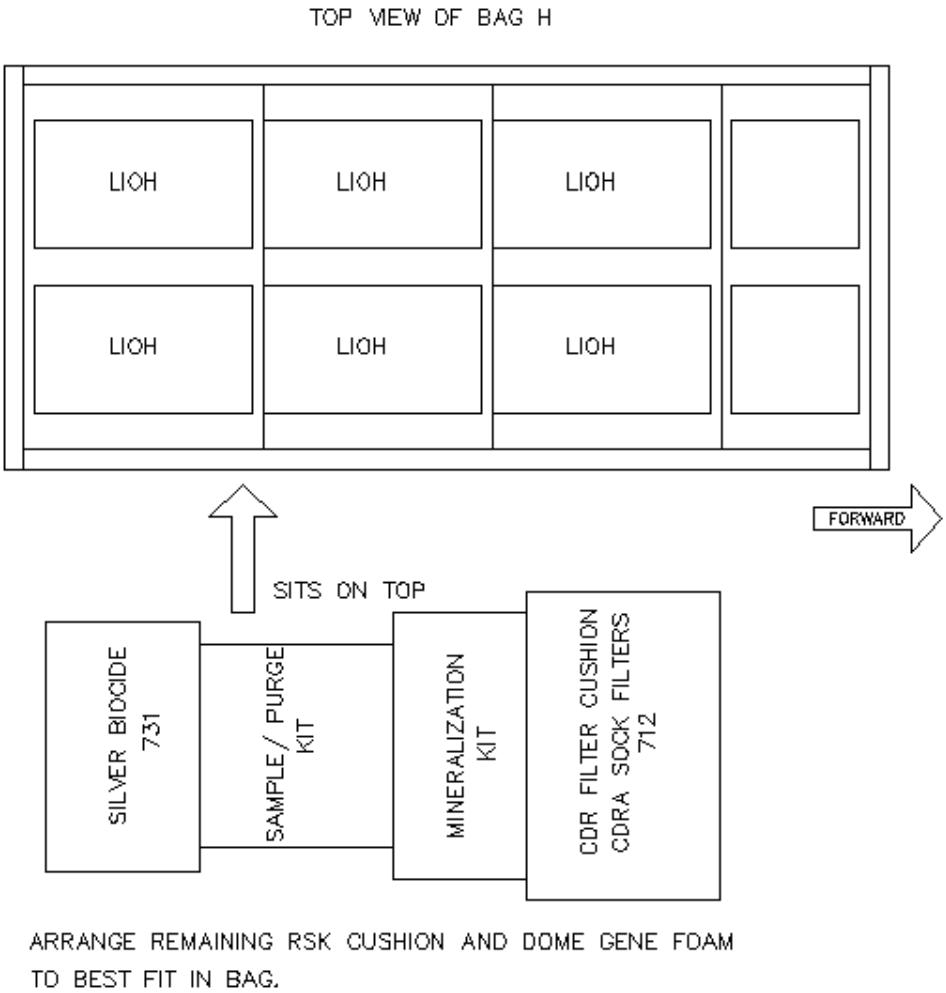
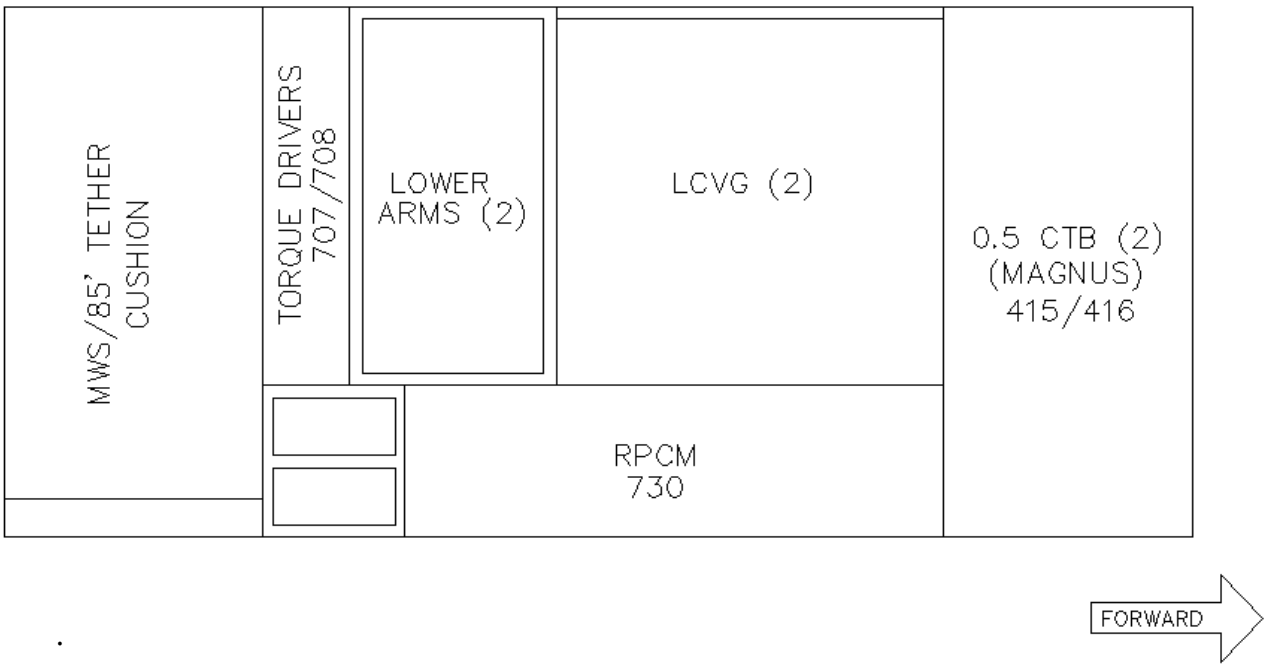
NOTE: BAG G/MD CEIL (STBD1) RETURN CONFIGURATION IS SAME AS LAUNCH




NOTE: DOME GENE FOAM IS LINE ITEM NO. 721 ON TRANSFER LIST.

TOP VIEW OF BAG C




NOTE: BAG D/MD FLOOR (STBD1) IS RETURN ITEM NO. 412 AS LISTED ON TRANSFER LIST

# DESCENT MODULAR LOCKER LAYOUT

| | |
|---|---|
| CDR | LEE J. ARCHAMBAULT |
| PLT | DOMINIC A. ANTONELLI |
| M/S #1 | JOSEPH ACABA |
| M/S #2 | STEVEN R. SWANSON |
| M/S #3 | RICHARD R. ARNOLD II |
| M/S #4 | JOHN PHILLIPS |
| M/S #5 | (UP) KOICHI WAKATA |
| M/S #5 | (DN) SANDY MAGNUS |

| | |
|---|---|
| LEADER: | DANIEL CULPS |
| DATE: | 3-19-09 |
| LAUNCH: | 2-12-09 |
| FLIGHT | STS-119/15A |
| VEHICLE | OV-103 |
| CREW: | 7 MAN 14 + 1 + 2 DAYS |
| RQMTS: | TEPC, ERGOMETER, GALLEY, SLEEPING BAGS |

LW MAR 8929-338

ML60B 6013 -309

ML60E 0719 -302

A31P LAPTOP
STS6-WLES
STS5-RPOP2
STS4-RPOP
STS3-KFX
STS2-WINDECOM
STS-OCA ROUTER

ML60M 6014 -309

VOL B (MA73J) 7436 -320

VOL 3B (MA73J) 7425 -326

MIDDECK FORWARD

| | | | | |
|---|---|---|---|---|
| 1622 -308 PANTRY FOOD | MF57A 1622 -308 PANTRY FOOD | 1622 -302 PANTRY FOOD | | |
| MF43C 1903 -306 | MF57C 1904 -309 | MF71C 3005 -305 | | |
| MF14E 2760 -306 ITCS SAMPLES | MF28E 1131 -301 COLDBAG | 6066 -334 MF43E 8719 -309 | MF57E 5473 -305 | MF71E 1347 -302 COLDBAG |
| MF14G 2761 -308 | 6300 -345 MF28G 6250 -353 MULTIMETER | MF43G 1900 -309 | MF57G 1902 -309 | MF71G 1901 -306 |
| MF14H 2763 -304 | MF28H 5452 -328 | MF43H 6231 -359 | MF57H 6240 -311 | MF71H 1352 -301 BAG 409 HCTB / BAG 408 HCTB |
| MF14K 2764 -306 | 0730 -301 MF28K 0728 -301 CD STOWAGE CASE | MF43K 0727 -301 CREW FEET | MF57K 1357 -301 BAG 401 HCTB / ENTRY GMTS HCTB (8740-301) | MF71K 0729 -302 NLP - VACCINE DOME GENE SPIDER HABITAT |
| MF14M 2765 -304 | MF28M 2762 -307 | MF43M 8047 -304 | MF57M 1908 -309 | MF71M 8965 -315 |
| MF14O 2766 -305 | MF28O 2767 -304 | MF43O 3006 -305 | MF57O 6697 -334 | MF710 6299 -320 |

MCU

MIDDECK AFT

| | | | |
|---|---|---|---|
| MA9D/F 9882 -306 T-RAD SPARE DTV MUX SPARE DTV DSR SPARE DTV VIP | MA16D 1350 -301 BAG 411 | | |
| MA9G 8737 -311 | MA16F/G 7495 -302 GLACIER | | |
| 5962 -303 MA9J 6269 -309 6256-306 | MA16J 8723 -302 CTB | | |
| MA9L 0631 -309 LOGBOOK/WATCHES/ SOMS RESUSCITATOR/ SALIVA COLLECTION KIT/ BLOOD COLLECTION KIT/ AMMONIA DETECTION KIT | MA16L 0679 -301 | | |
| MA9N SOFT STWG BAGS 7432 -333 | MA16N 9014 -312 | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| A16 7490 -303 | A17 7424 -304 | VOLUME D (MD52C) NOT INSTALLED | VOLUME F (MD76M) 1403 -306 WET TRASH | VOLUME G (MD80R) 1800 -346 | VOLUME H (MA23R) 8068 -317 EVA ACCESS (INBD) 8065 -312 EVA ACCESS (OBD) HIGH TORQUE TOOLS | 4575 -315 WMC (MA82H) 0914 -332 1641-330 | 5557 -329 (STBD) EXT A/L 5555 -330 (PORT) 2-EMUs ECOK/GLOVES (2) 0723 -306 CCC(2) CCA EMU BATTERY WRIST MIRROR (2) HCTB, GLOVES (1258-301) ADJUSTABLE EQUIP TETH. (2) BAG 407 | | | |

| | |
|---|---|
| MD CEIL (PORT 1) 0722 -314 | DIAL TORQUE WRENCH GEO FLOW BAG 413 BAG 414 |
| MD CEIL (PORT 2) 6665 -355 | LADA CGSE VALVE RUSSIAN RUBBER BAG |
| MD CEIL (STBD 1) 0718 -305 | RCC REPAIR TILE REPAIR |
| MD CEIL (STBD 2) 0654 -311 | MINERALIZATION SAMPLE PURGE USED LIOH SILVER BIOCIDE FILTER ASSY (2) |
| MD FLOOR (PORT 2) 1349 -353 | BAG 400 - CTB BAG 410 - CTB RUSSIAN COMPUTER (2) |
| MD FLOOR (PORT 1) 0721 -303 | UPA DA |
| MD FLOOR (STBD 2) 0725 -305 | RPCM MWS/85' TETH.(2) TORQUE DRIVER RPCM CREW PREF (2) |
| MD FLOOR (STBD 1) 0724 -306 | RFTA |

ONLY LOCATIONS THAT CHANGED OR CONTAIN TRANSFER ITEMS ARE SHOWN

NOTE: LOCKER LAYOUTS ARE FOR REFERENCE ONLY & ARE NOT RELEASED DWGS. FOR RELEASED DRAWING, PLEASE REFER TO THE CREW COMPARTMENT CONFIGURATION DRAWING FOR THIS FLIGHT (SGD32104442)

DWG NO. SGD32104442

CCFE: TRACY HUNT
(281) 483-3063

/USR/DWGS/LOCKER/STS119