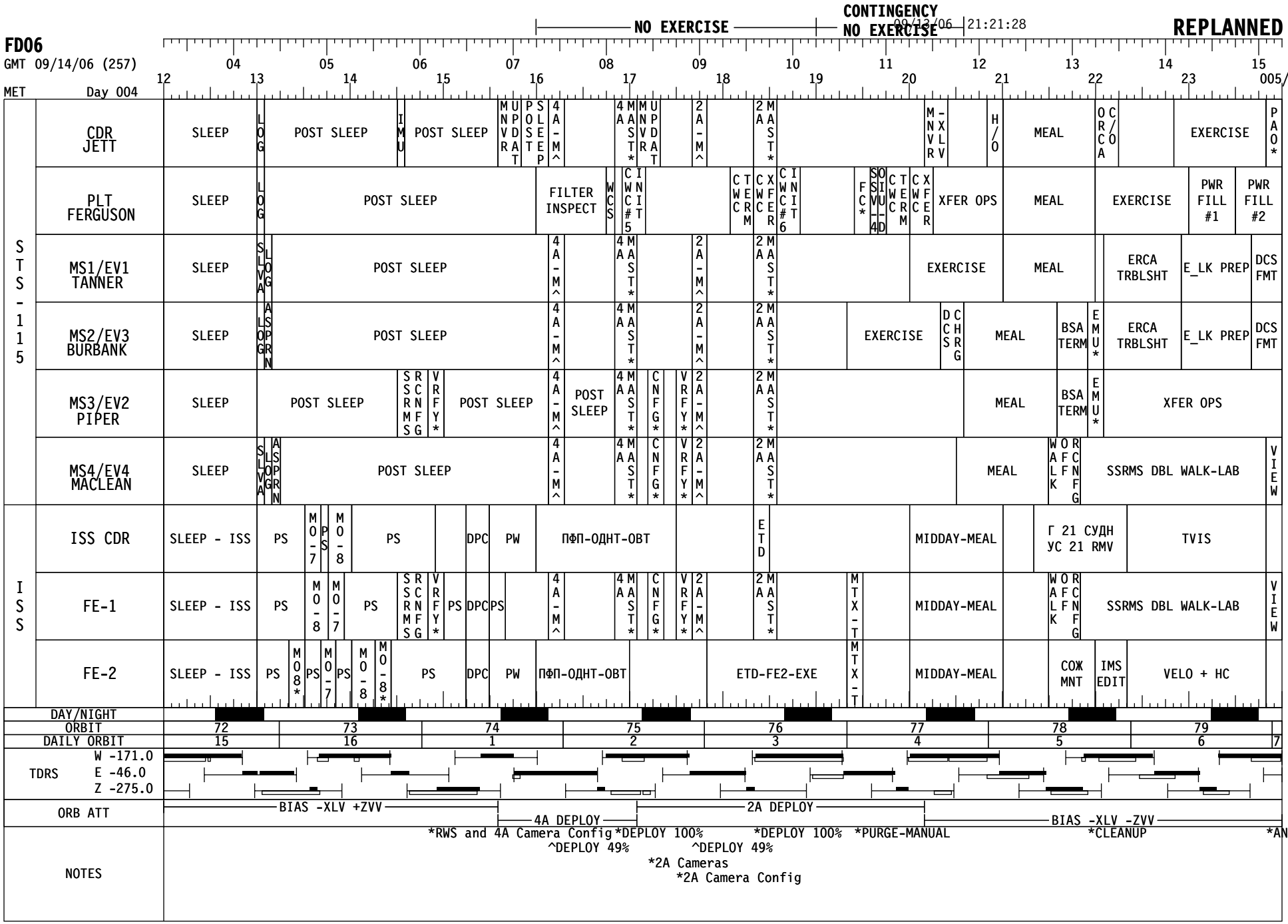
STS-115/12A

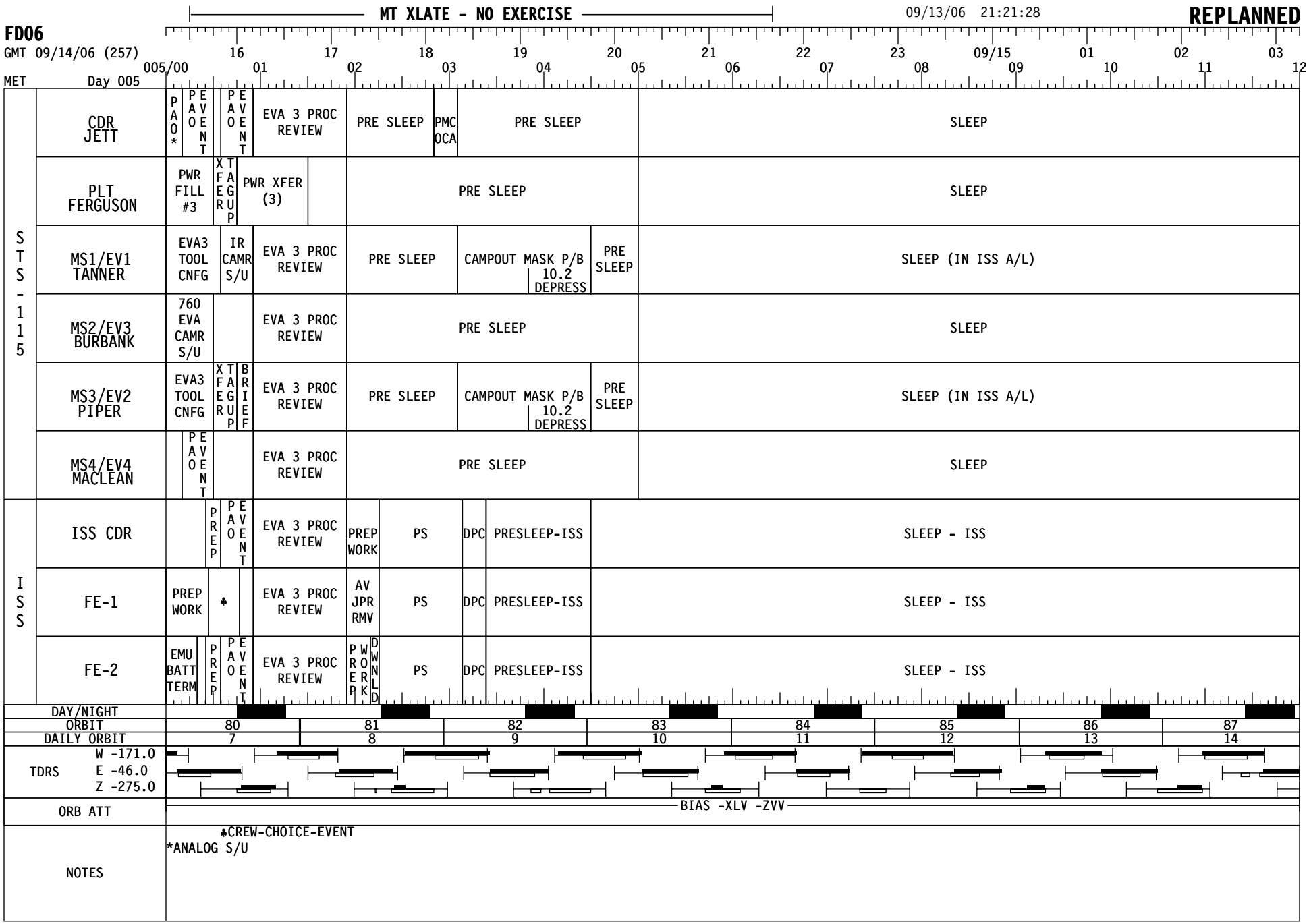
FD 06 Execute Package

MSG	Page(s)	Title
060A	1 - 2	FD06 Summary Timeline **(pdf)**
058A	3 - 13	FD06 Flight Plan Revision **(pdf)**
059	14 - 15	FD06 Mission Summary **(pdf)**
055	16 - 17	ORCA Outlet Hose Checkout **(pdf)**
061	18 - 19	FD06 Transfer Message **(pdf)**
062	20	FD06 Water Summary Message **(pdf)**
064	21 - 35	SASA, BSP and XPDR Tie Down Plan **(pdf)**
067	36 - 38	STS-115 Middeck Bag Layouts **(pdf)**
063A	---	FD05 MMT Summary **(pdf - Electronic Only)**

Approved by FAO: *M. Scheib*

Last Updated: Sep 14 2006 3:35AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*


FD06
REPLANNED
NO EXERCISE
CONTINGENCY
NO EXERCISE
09/13/06 21:21:28
GMT 09/14/06 (257)
MET Day 004
12 04 13 05 14 06 15 07 16 08 17 09 18 10 19 11 20 12 21 13 22 14 23 15 005/00
STS-115
CDR JETT
PLT FERGUSON
MS1/EV1 TANNER
MS2/EV3 BURBANK
MS3/EV2 PIPER
MS4/EV4 MACLEAN
ISS
ISS CDR
FE-1
FE-2
SLEEP
POST SLEEP
FILTER INSPECT
EXERCISE
XFER OPS
MEAL
MIDDAY-MEAL
SSRMS DBL WALK-LAB
ETD-FE2-EXE
VELO + HC
DAY/NIGHT
ORBIT
DAILY ORBIT
TDRS
W -171.0
E -46.0
Z -275.0
ORB ATT
BIAS -XLV +ZVV
4A DEPLOY
2A DEPLOY
BIAS -XLV -ZVV
NOTES
*RWS and 4A Camera Config
*DEPLOY 100%
^DEPLOY 49%
*2A Cameras
*2A Camera Config
*PURGE-MANUAL
*CLEANUP
*ANALOG S/U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09/13/06 21:21:28
REPLANNED
FD06
GMT 09/14/06 (257)
MET Day 005
005/00 16 17 18 19 20 21 22 23 09/15 01 02 03
00 01 02 03 04 05 06 07 08 09 10 11 12
STS-115
CDR JETT
PAO* PAO EVENT PAO EVENT EVA 3 PROC REVIEW PRE SLEEP PMC OCA PRE SLEEP SLEEP
PLT FERGUSON
PWR FILL #3 XFER TAGUP PWR XFER (3) PRE SLEEP SLEEP
MS1/EV1 TANNER
EVA3 TOOL CNFG IR CAMR S/U EVA 3 PROC REVIEW PRE SLEEP CAMPOUT MASK P/B 10.2 DEPRESS PRE SLEEP SLEEP (IN ISS A/L)
MS2/EV3 BURBANK
760 EVA CAMR S/U EVA 3 PROC REVIEW PRE SLEEP SLEEP
MS3/EV2 PIPER
EVA3 TOOL CNFG XFER TAGUP BRIEF EVA 3 PROC REVIEW PRE SLEEP CAMPOUT MASK P/B 10.2 DEPRESS PRE SLEEP SLEEP (IN ISS A/L)
MS4/EV4 MACLEAN
PAO EVENT EVA 3 PROC REVIEW PRE SLEEP SLEEP
ISS
ISS CDR
PREP PAO EVENT EVA 3 PROC REVIEW PREP WORK PS DPC PRESLEEP-ISS SLEEP - ISS
FE-1
PREP WORK ♣ EVA 3 PROC REVIEW AV JPR RMV PS DPC PRESLEEP-ISS SLEEP - ISS
FE-2
EMU BATT TERM PREP PAO EVENT EVA 3 PROC REVIEW PREP WORK DWNLD PS DPC PRESLEEP-ISS SLEEP - ISS
DAY/NIGHT
ORBIT 80 81 82 83 84 85 86 87
DAILY ORBIT 7 8 9 10 11 12 13 14
TDRS W -171.0 E -46.0 Z -275.0
ORB ATT
BIAS -XLV -ZVV
NOTES
♣CREW-CHOICE-EVENT
*ANALOG S/U

MSG INDEX

MSG NO.	TITLE
55	ORCA Outlet Hose Checkout (13-1211)
58	FD06 Flight Plan Revision
59	FD06 Mission Summary (13-1213)
60	FD06 Summary Timeline
61	FD06 Transfer Message (13-1214)
62	FD06 Water Summary Message
63	FD05 MMT Summary (13-1216)
64	SASA, BSP and XPDR Tie Down Plan (13-1217)
65	Atlantis Canadian Space Agency PAO Event (13-1221)
66	Atlantis / ISS PAO Event with National Public Radio and CNN (13-1222)
67	STS-115 Middeck Bag Layouts

1. There is a possibility that the ORCA O2 Outlet Line may be pressurized between the check valve and the MW QD11 QD. The QD is plugged and when the plug is removed, there is a chance that the first stage seal O-ring may blow out. We have scheduled time for you to relieve the pressure, if any, to avoid damaging the seal.

2. Questions from the PDRS team to the RMS crew:

   Were you able to get SSRMS data to your RSAD and DOUG machines on FD4?

   Currently, the only troubleshooting that MCC can provide is to reboot the WinDecom PGSC. If you desire to try this feature again, please let MCC know so that the appropriate comm configurations can be made.

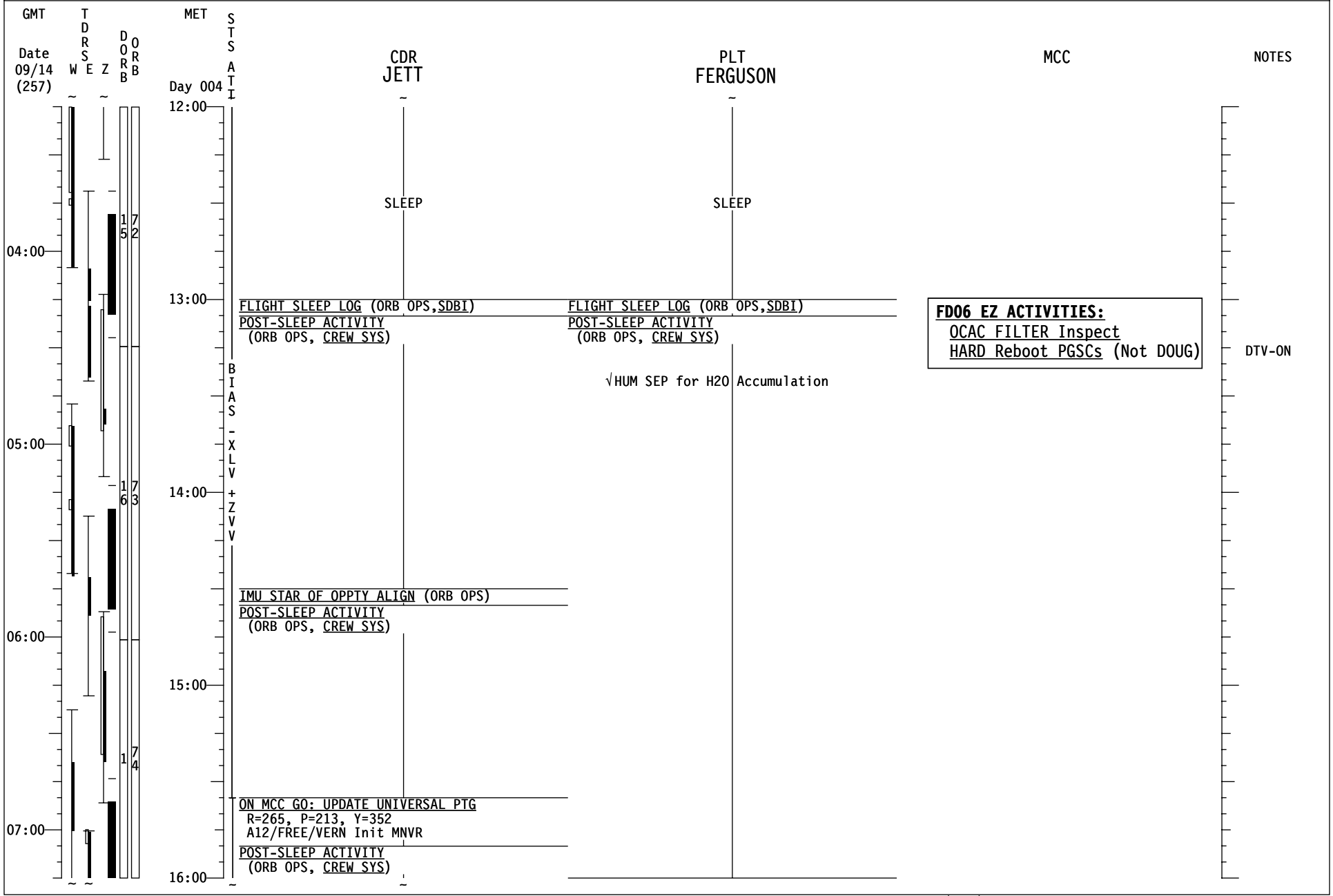
3. Reference Message 067 for the final Middeck Stowage Bag config.

4. Reminder for exercise: Please be aware there are exercise contraints all day for solar array deploy and MT translate activities, which fall near the scheduled exercise times. These are denoted on your summary and detailed pages for your reference.

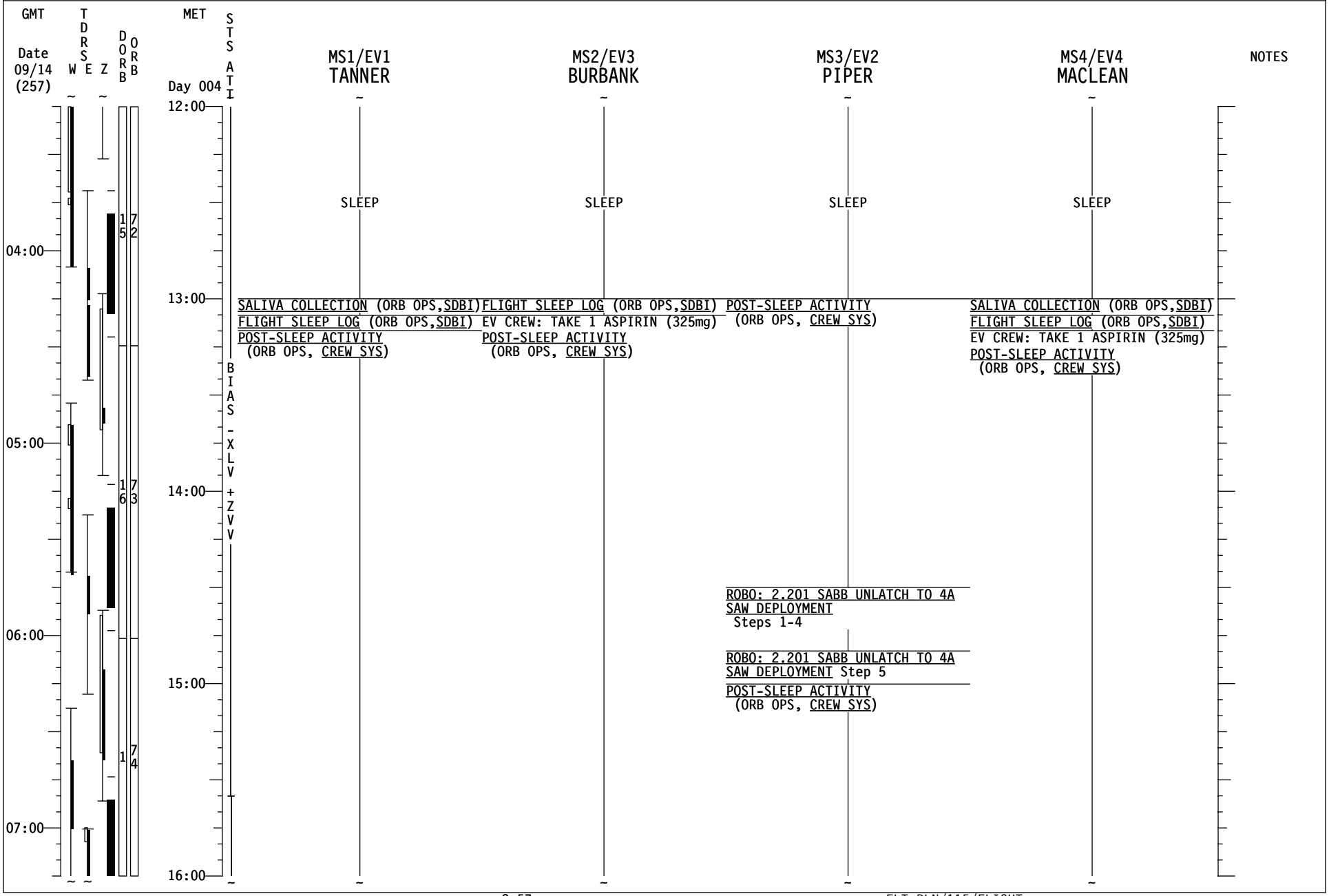
5. Your Outlook OSTs are getting quite large resulting in lengthy uplink times. Please move messages from your Inbox, Sent Items, and Work related folders to a personal folder.

6. REPLACE PAGES 3-56 THROUGH 3-65.

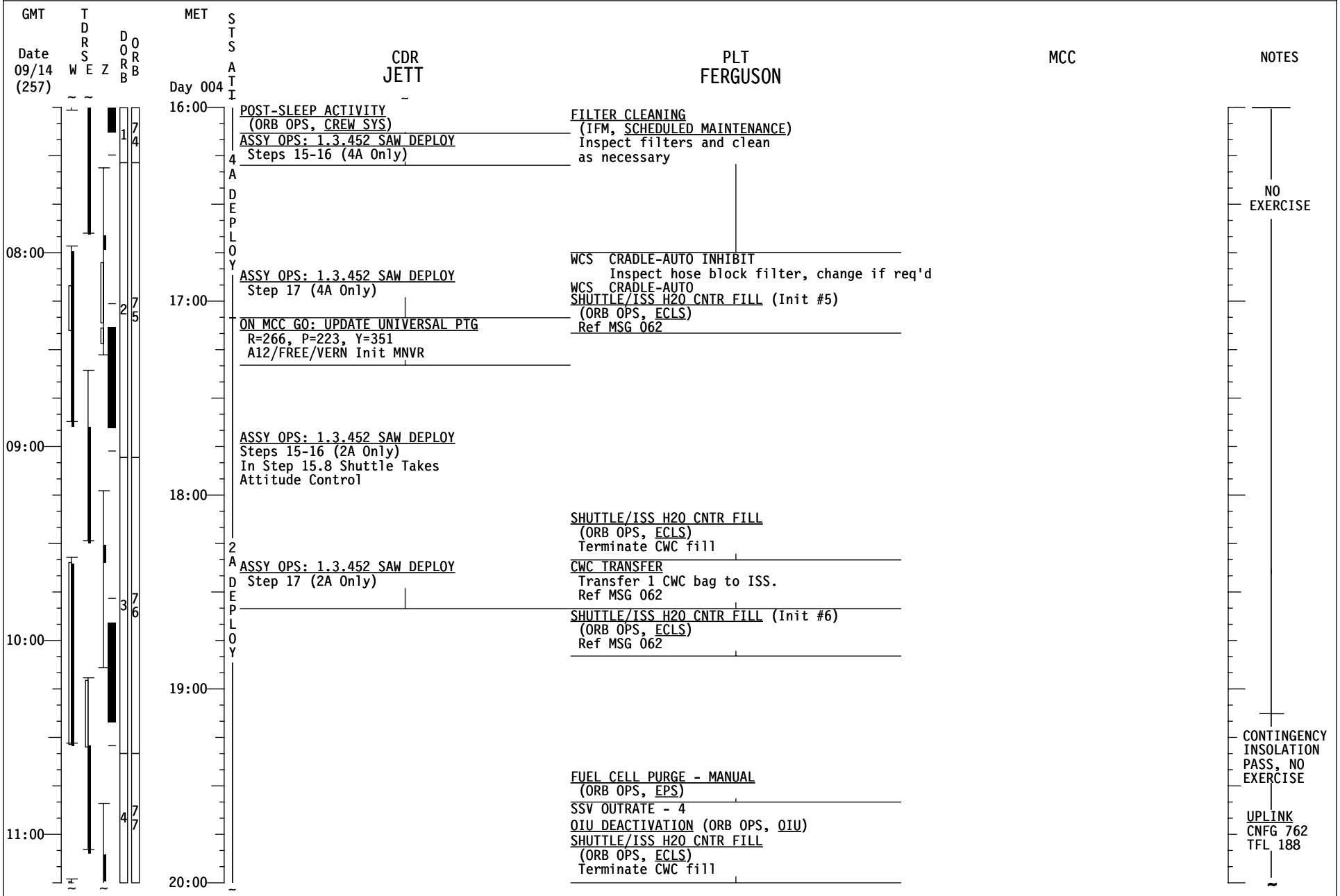
STS-115 (FD06)


GMT
Date
09/14
(257)
TDRS W E Z
DOR B
ORB
MET
Day 004
STS ATI
CDR
JETT
PLT
FERGUSON
MCC
NOTES
12:00
04:00
13:00
05:00
14:00
06:00
15:00
07:00
16:00
SLEEP
SLEEP
FLIGHT SLEEP LOG (ORB OPS,SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
FLIGHT SLEEP LOG (ORB OPS,SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
√HUM SEP for H2O Accumulation
FD06 EZ ACTIVITIES:
OCAC FILTER Inspect
HARD Reboot PGSCs (Not DOUG)
DTV-ON
BIAS -XLV +ZVV
IMU STAR OF OPPTY ALIGN (ORB OPS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
ON MCC GO: UPDATE UNIVERSAL PTG
R=265, P=213, Y=352
A12/FREE/VERN Init MNVR
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
15 72
16 73
14 74

STS-115 (FD06)

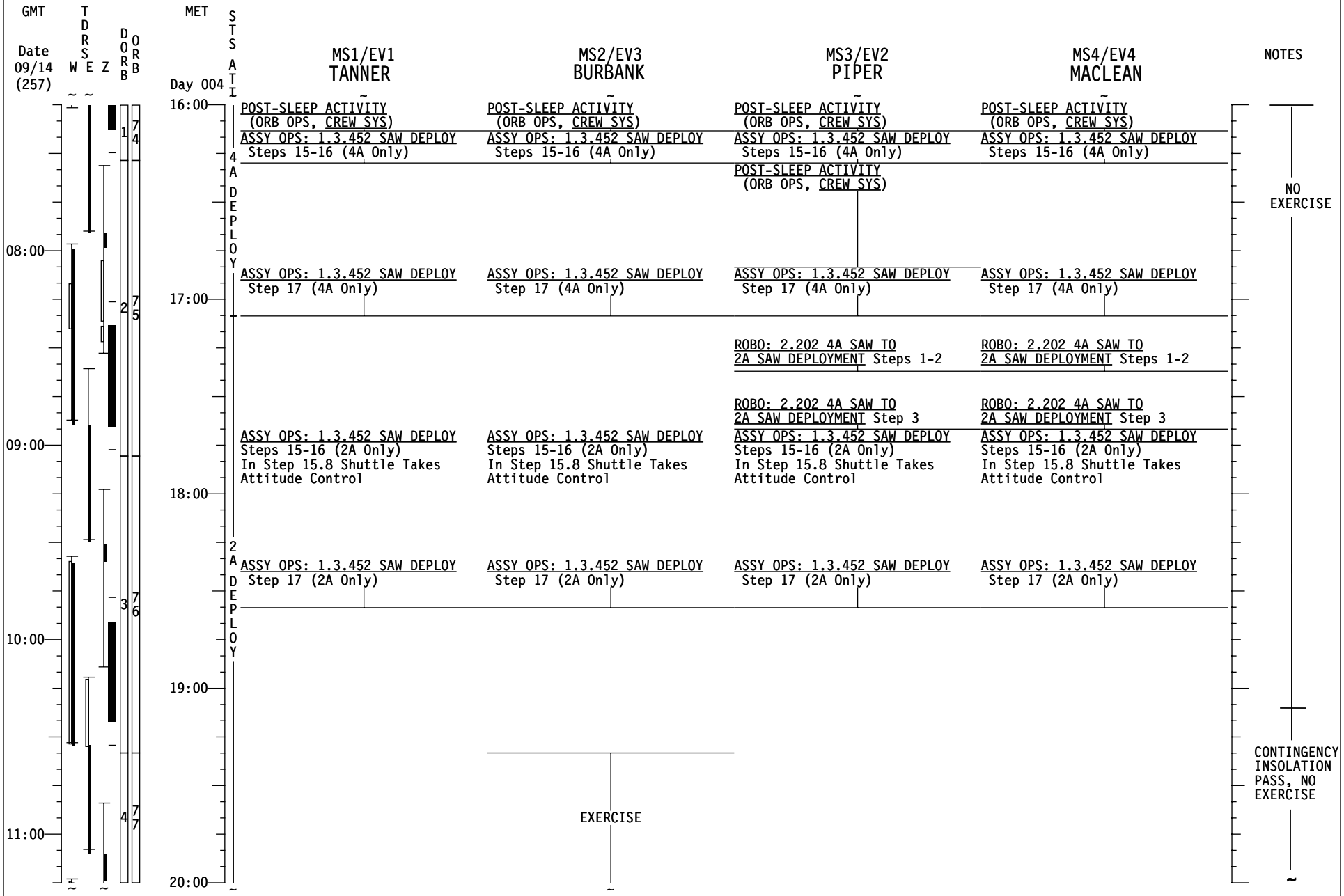

GMT
Date
09/14
(257)
TDRS W E Z
DOR B
ORB
MET
Day 004
STS ATI
MS1/EV1
TANNER
MS2/EV3
BURBANK
MS3/EV2
PIPER
MS4/EV4
MACLEAN
NOTES
12:00
13:00
14:00
15:00
16:00
04:00
05:00
06:00
07:00
SLEEP
SLEEP
SLEEP
SLEEP
SALIVA COLLECTION (ORB OPS,SDBI)
FLIGHT SLEEP LOG (ORB OPS,SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
FLIGHT SLEEP LOG (ORB OPS,SDBI)
EV CREW: TAKE 1 ASPIRIN (325mg)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SALIVA COLLECTION (ORB OPS,SDBI)
FLIGHT SLEEP LOG (ORB OPS,SDBI)
EV CREW: TAKE 1 ASPIRIN (325mg)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
ROBO: 2.201 SABB UNLATCH TO 4A
SAW DEPLOYMENT
Steps 1-4
ROBO: 2.201 SABB UNLATCH TO 4A
SAW DEPLOYMENT Step 5
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
BIAS-XLV+ZVV
15
72
16
73
14
74

STS-115 (FD06)


GMT
Date
09/14
(257)
TDRS W E Z
DOB
ORB
MET
Day 004
STS ATI
CDR
JETT
PLT
FERGUSON
MCC
NOTES
16:00
17:00
18:00
19:00
20:00
08:00
09:00
10:00
11:00
4A DEPLOY
2A DEPLOY
1 74
2 75
3 76
4 77
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
ASSY OPS: 1.3.452 SAW DEPLOY
Steps 15-16 (4A Only)
ASSY OPS: 1.3.452 SAW DEPLOY
Step 17 (4A Only)
ON MCC GO: UPDATE UNIVERSAL PTG
R=266, P=223, Y=351
A12/FREE/VERN Init MNVR
ASSY OPS: 1.3.452 SAW DEPLOY
Steps 15-16 (2A Only)
In Step 15.8 Shuttle Takes
Attitude Control
ASSY OPS: 1.3.452 SAW DEPLOY
Step 17 (2A Only)
FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)
Inspect filters and clean
as necessary
WCS CRADLE-AUTO INHIBIT
Inspect hose block filter, change if req'd
WCS CRADLE-AUTO
SHUTTLE/ISS H2O CNTR FILL (Init #5)
(ORB OPS, ECLS)
Ref MSG 062
SHUTTLE/ISS H2O CNTR FILL
(ORB OPS, ECLS)
Terminate CWC fill
CWC TRANSFER
Transfer 1 CWC bag to ISS.
Ref MSG 062
SHUTTLE/ISS H2O CNTR FILL (Init #6)
(ORB OPS, ECLS)
Ref MSG 062
FUEL CELL PURGE - MANUAL
(ORB OPS, EPS)
SSV OUTRATE - 4
OIU DEACTIVATION (ORB OPS, OIU)
SHUTTLE/ISS H2O CNTR FILL
(ORB OPS, ECLS)
Terminate CWC fill
NO EXERCISE
CONTINGENCY INSOLATION PASS, NO EXERCISE
UPLINK
CNFG 762
TFL 188

REPLANNED

STS-115 (FD06)



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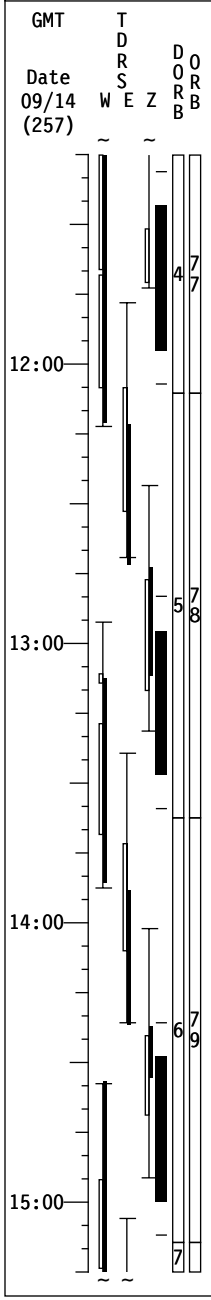


MET Day 004

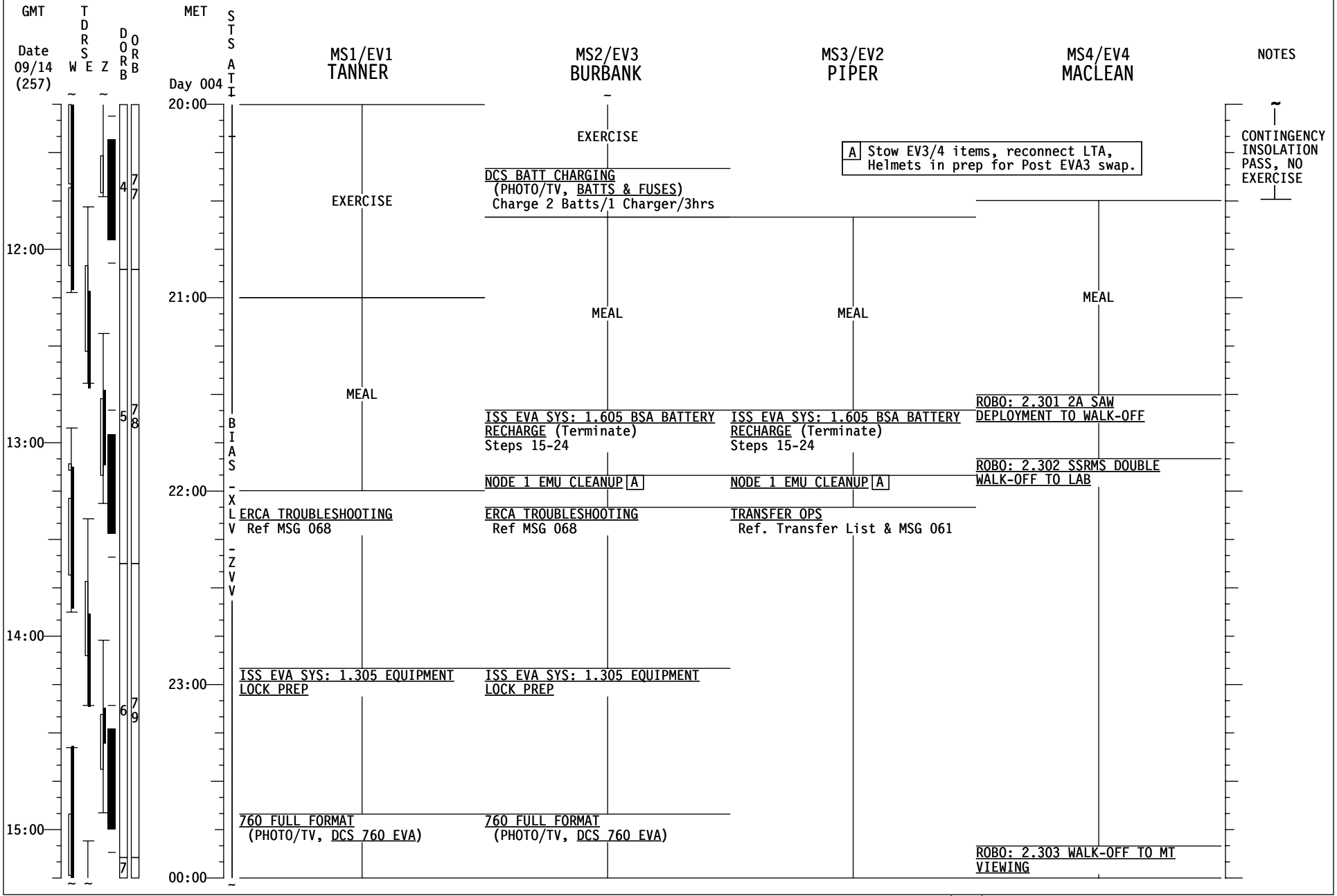
STS ATI BIAS -XLV -ZVV

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

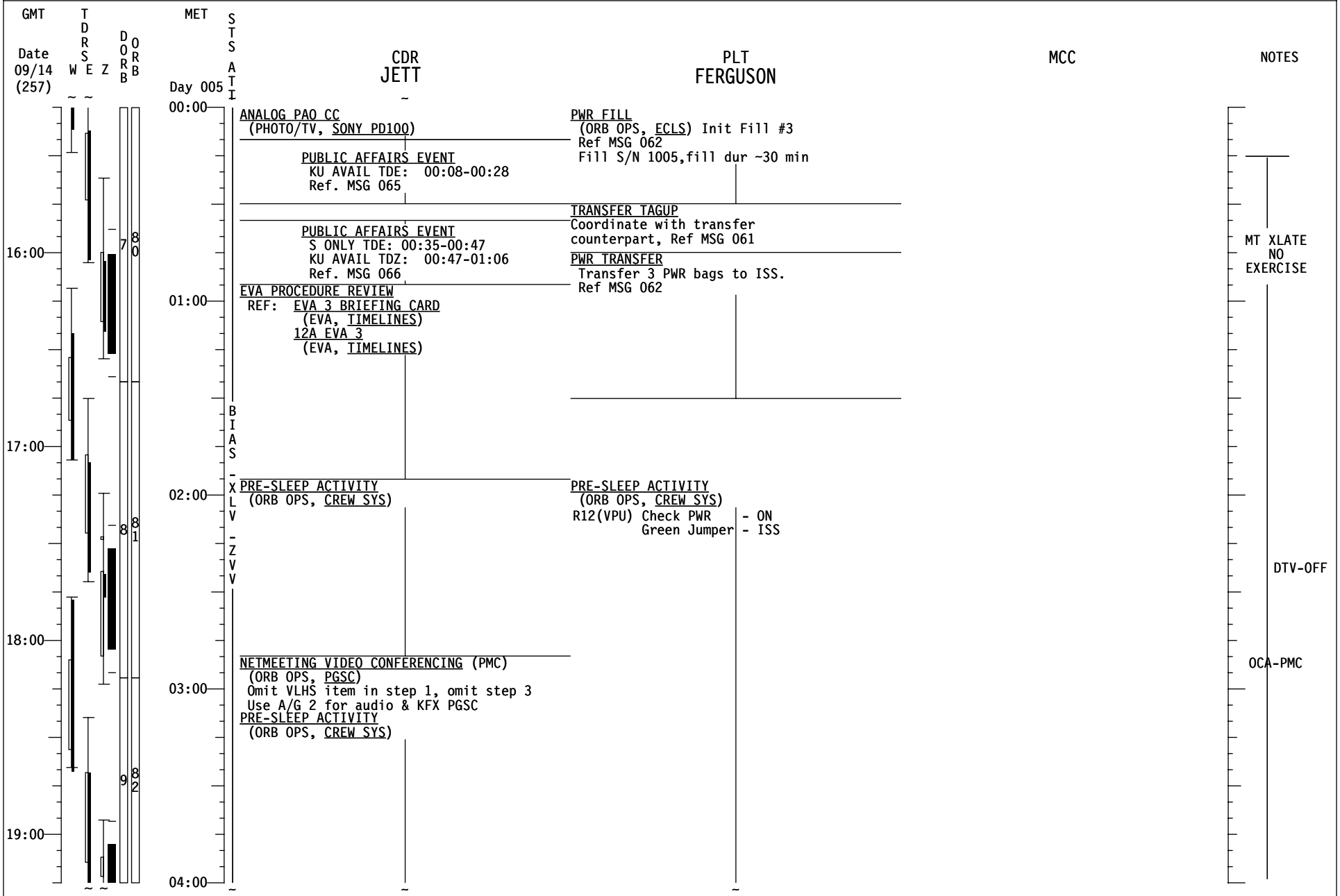
CDR JETT	PLT FERGUSON	MCC	NOTES
In step 17.9, before performing Rate Damping (LVLH), Update Attitude: MNVR (TRK) -XLV, -ZVV TG=2 BV=5 P=159 Y=315 OM=183 A12/AUTO/VERN Init TRK	CWC TRANSFER Transfer 1 CWC bag to ISS. Ref MSG 062 TRANSFER OPS Ref. Transfer List & MSG 061		CONTINGENCY INSOLATION PASS, NO EXERCISE
JOINT OPS: 3.111 HANDOVER ATTITUDE CONTROL ORBITER TO CMG TA			
MEAL	MEAL		
ORCA OUTLET HOSE CHECKOUT Ref: Transfer List Item 8 MSG 055			
	EXERCISE		
EXERCISE	PWR FILL (ORB OPS, ECLS) Init Fill #1 Ref MSG 062 Fill S/N 1023,fill dur ~30 min PWR FILL (ORB OPS, ECLS) Init Fill #2 Ref MSG 062 Fill S/N 1024,fill dur ~30 min		
ANALOG PAO CC (PHOTO/TV, SONY PD100)			

REPLANNED

STS-115 (FD06)



STS-115 (FD06)


GMT
Date
09/14
(257)
TDRS W E Z
DOB 7 9
ORB 80 81 82
MET
Day 005
STS ATI
CDR
JETT
PLT
FERGUSON
MCC
NOTES
00:00
16:00
17:00
18:00
19:00
01:00
02:00
03:00
04:00
BIAS-XLV-ZVV
ANALOG PAO CC
(PHOTO/TV, SONY PD100)
PUBLIC AFFAIRS EVENT
KU AVAIL TDE: 00:08-00:28
Ref. MSG 065
PUBLIC AFFAIRS EVENT
S ONLY TDE: 00:35-00:47
KU AVAIL TDZ: 00:47-01:06
Ref. MSG 066
EVA PROCEDURE REVIEW
REF: EVA 3 BRIEFING CARD
(EVA, TIMELINES)
12A EVA 3
(EVA, TIMELINES)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
NETMEETING VIDEO CONFERENCING (PMC)
(ORB OPS, PGSC)
Omit VLHS item in step 1, omit step 3
Use A/G 2 for audio & KFX PGSC
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PWR FILL
(ORB OPS, ECLS) Init Fill #3
Ref MSG 062
Fill S/N 1005,fill dur ~30 min
TRANSFER TAGUP
Coordinate with transfer
counterpart, Ref MSG 061
PWR TRANSFER
Transfer 3 PWR bags to ISS.
Ref MSG 062
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
R12(VPU) Check PWR - ON
Green Jumper - ISS
MT XLATE
NO
EXERCISE
DTV-OFF
OCA-PMC

STS-115 (FD06)

GMT Date 09/14 (257) | TDRS W E Z | DORB | ORB 80, 81, 82 (DORB 7, 8, 9) | MET Day 005 | STS ATT: BIAS -XLV -ZVV

GMT 16:00, 17:00, 18:00, 19:00 — MET 00:00, 01:00, 02:00, 03:00, 04:00

MS1/EV1 TANNER

PRE EVA 3 TOOL CONFIG
(EVA, TIMELINES)

EVA IR CAMERA SETUP
(PHOTO/TV, EVA IR CAM)

EVA PROCEDURE REVIEW
REF: EVA 3 BRIEFING CARD
(EVA, TIMELINES)
12A EVA 3
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ISS EVA SYS: 2.305 10.2 PSIA
CAMPOUT MASK PREBREATHE
Perform steps 1-14, while waiting on P/B PET = 45 min:
REF: PRE EVA 3 TOOL CONFIG
(EVA, TIMELINES)
When P/B PET = 45 min, continue at step 15

MS2/EV3 BURBANK

760 EVA-CAMR ONLY
(PHOTO/TV, DCS 760 EVA)

EVA PROCEDURE REVIEW
REF: EVA 3 BRIEFING CARD
(EVA, TIMELINES)
12A EVA 3
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS3/EV2 PIPER

PRE EVA 3 TOOL CONFIG
(EVA, TIMELINES)

TRANSFER TAGUP
Coordinate with transfer counterpart, Ref MSG 061

TRANSFER BRIEF
Call down status to MCC

EVA PROCEDURE REVIEW
REF: EVA 3 BRIEFING CARD
(EVA, TIMELINES)
12A EVA 3
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ISS EVA SYS: 2.305 10.2 PSIA
CAMPOUT MASK PREBREATHE
Perform steps 1-14, while waiting on P/B PET = 45 min:
REF: PRE EVA 3 TOOL CONFIG
(EVA, TIMELINES)
When P/B PET = 45 min, continue at step 15

MS4/EV4 MACLEAN

PUBLIC AFFAIRS EVENT
KU AVAIL TDE: 00:08-00:28
Ref. MSG 065

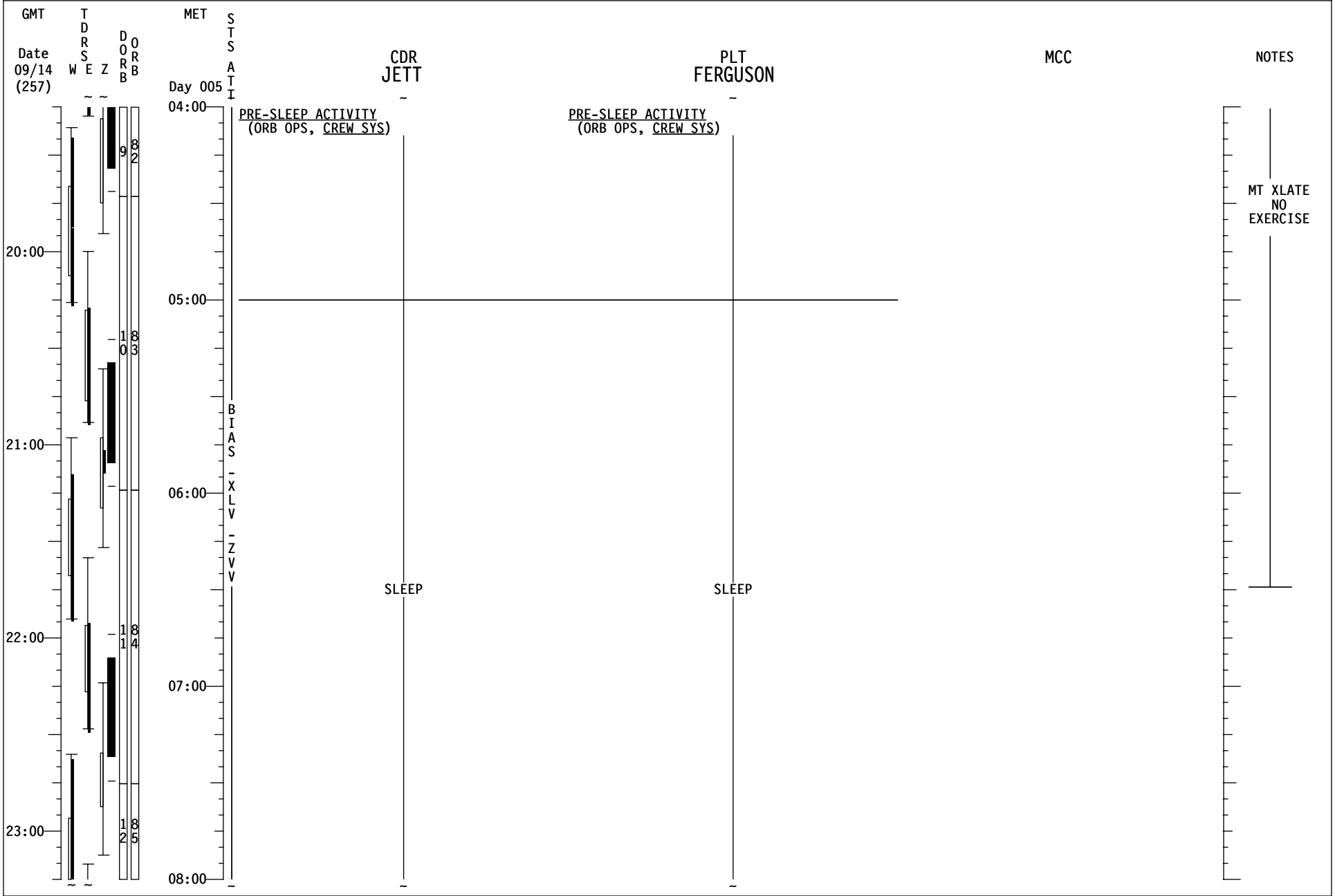
EVA PROCEDURE REVIEW
REF: EVA 3 BRIEFING CARD
(EVA, TIMELINES)
12A EVA 3
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

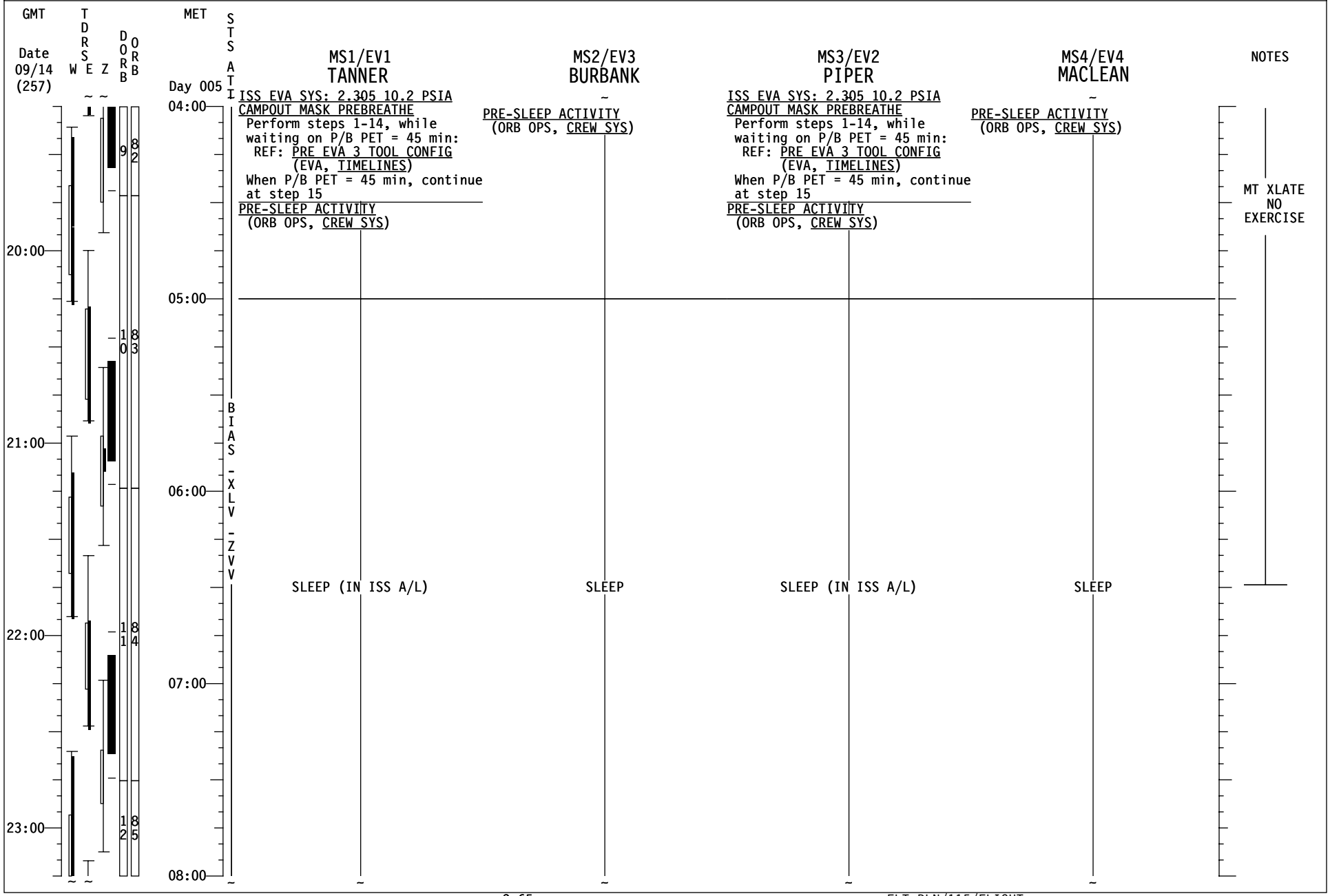
NOTES

MT XLATE
NO
EXERCISE

STS-115 (FD06)


GMT
Date
09/14
(257)
TDRS W E Z
DOB ORB
MET
Day 005
STS ATI
CDR
JETT
PLT
FERGUSON
MCC
NOTES
04:00
05:00
06:00
07:00
08:00
20:00
21:00
22:00
23:00
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
BIAS -XLV -ZVV
SLEEP
SLEEP
MT XLATE
NO
EXERCISE
9 82
10 83
11 84
12 85

STS-115 (FD06)


GMT
Date
09/14
(257)
TDRS W E Z
DOB 9 10 11 12
ORB 82 83 84 85
MET
Day 005
STS ATT
BIAS -XLV -ZVV
04:00
05:00
06:00
07:00
08:00
20:00
21:00
22:00
23:00
MS1/EV1
TANNER
ISS EVA SYS: 2.3psi 10.2 PSIA
CAMPOUT MASK PREBREATHE
Perform steps 1-14, while waiting on P/B PET = 45 min:
REF: PRE EVA 3 TOOL CONFIG (EVA, TIMELINES)
When P/B PET = 45 min, continue at step 15
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
SLEEP (IN ISS A/L)
MS2/EV3
BURBANK
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
SLEEP
MS3/EV2
PIPER
ISS EVA SYS: 2.3psi 10.2 PSIA
CAMPOUT MASK PREBREATHE
Perform steps 1-14, while waiting on P/B PET = 45 min:
REF: PRE EVA 3 TOOL CONFIG (EVA, TIMELINES)
When P/B PET = 45 min, continue at step 15
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
SLEEP (IN ISS A/L)
MS4/EV4
MACLEAN
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
SLEEP
NOTES
MT XLATE
NO
EXERCISE

Good morning Atlantis!

You are making EVA look easy, even when it is heavy work! Great job yesterday! Congratulations on paving the path so smoothly to make a power plant out of Station! We will be following anxiously, when you deploy the Solar Arrays today!

Consumables status above an 11 + 2 day mission is as follows:

Consumable	Margin	Notes
O2	560 lb	• About 2 days 10 hours • We are looking at the possibility of transferring additional O2 to ISS, but would likely preserve the 2 days of margin above 11 + 2
H2	63 lb	• About 2 days 10 hours
N2	11 lb	• 1 day 20 hours • This margin will increase by 44 lb after the successful completion of EVA3 • 55 lb margin would support 9 days 7 hours
LiOH	3 cans	• 1 day • Any additional undocked days above 11+3 planned prior to undocking would require 3 cans/day from the ISS stockpile
FWD RCS Aft RCS OMS	800 lb 800 lb 800 lb	• 5 days (aft propellant limited)

Assuming we plan ahead and take three cans of LiOH from the ISS stockpile, cryo O2/H2 is the limiting consumable. Direction for whether or not to take those extra cans of LiOH will be provided by FD9.

YOUR CURRENT ORBIT IS: 189 X 181 NM

<u>NOTAMS:</u>

EDWARDS (EDW) – 15/33 ELS ONLY – 18L CLOSED
WHITE SANDS (NOR) – RED
AMBERLY (AMB) - CLOSED
ANDERSEN (GUA) - 06L/24R CLOSED, ALTERNATE 06R/24L
ANDERSEN BACKUP (UNZ CH 100) VORTAC FREQUENCY CHANGED TO CH 105
ISTRES (FMI) - RUNWAY 33 DISTANCE MARKERS @ 300, 600, 900M
LAJES TACAN (LAJ) CH 45 OUT OF SERVICE
ORMOND BEACH (OMN) CH 73 AZIMUTH OUT OF SERVICE
RIO GALLEGOS (AWG) - NOT APPROVED
SALISBURY (SBY CH 49) OUT OF SERVICE (PRIME TACAN FOR WALLOPS)
WAKE ISLAND (WAK) - CLOSED
WAKE ISLAND (WAK) CH 82 OUT OF SERVICE
WILMINGTON (ILM) - CLOSED

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 79 – 4/23:13 (FEW100, 230@10P17)
EDW22 ORB 95 – 5/23:36 (FEW100, 240@16P22)

OMS TANK FAIL CAPABILITY:

L OMS FAILS: YES (SHALLOW TARGETS)
R OMS FAILS: NO

LEAKING OMS PRPLT BURN:

L OMS LEAK: BURN OUT-OF-PLANE AN+67 <= TIG <= AN+33
OTHERWISE BURN RETRO
R OMS LEAK: ALWAYS BURN RETRO

OMS QUANTITIES(%)

L OMS OX = 33.5 R OMS OX = 33.0
FU = 34.5 FU = 33.7

SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

OMS	342 FPS
ARCS (TOTAL ABOVE QTY1)	36 FPS
TOTAL IN THE AFT	378 FPS
ARCS (TOTAL ABOVE QTY2)	70 FPS
FRCS (ABOVE QTY 1)	54 FPS
AFT QTY 1	89 %
AFT QTY 2	51 %

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

13-1211 (MSG 055) - ORCA Outlet Hose with Check Valve Transfer and Checkout

Objective:
The purpose of this procedure is to transfer and checkout the new ORCA Outlet Hose.

EXT A/L FLOOR BAG 1. Retrieve the new ORCA Outlet Hose (P/N 683-62472-1)

CAUTION
During acceptance testing on the ground, the ORCA Outlet Hose was pressurized from the ORCA O2 Outlet Line (MW ORCA OUT) QD with the ORCA O2 Outlet Line (MW QD011) QD being open and capped. After testing, the hose was depressurized from the ORCA O2 Outlet Line (MW ORCA OUT) QD. However, the check valve which is immediately upstream of the ORCA O2 Outlet Line (MW QD011) QD allows for a pocket of high pressure gas to remain between itself and the ORCA O2 Outlet Line (MW QD011) QD. In this configuration, there is a possibility of blowing out the o-ring first stage seal of the ORCA O2 Outlet Line (MW QD011) QD when CLOSING the QD and removing the plug, which is due to the differential pressure.
When Closing the ORCA O2 Outlet Line (MW QD011) QD, listen for any hissing noises or a popping sound.
Close the ORCA O2 Outlet Line (MW QD011) QD very slowly to minimize any shear on the seal if any gas is present.

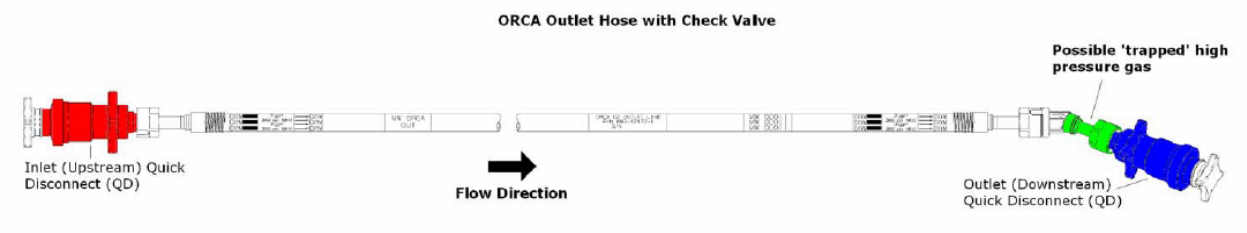


Figure 1: ORCA Outlet Hose with Check Valve

2.1 Don Powder -Free Gloves.

2.2 Slowly (5 seconds per ¼ turn) close ORCA O2 Outlet Line (MW QD011) QD.

2.3 Plug ←|→ ORCA O2 Outlet Line (MW QD011) QD

2.4 Perform visual inspection of QD Flow Pathway to determine if the o-ring is still seated. Refer to Figures 2 and 3.
Photodocument the O-Ring and QD.

2.5 If ORCA O2 Outlet Line (MW QD011) QD O-ring is intact:
Restow per Transfer List #8.

2.6 If ORCA O2 Outlet Line (MW QD011) QD O-ring is not intact:
Prep for return to ground; temp stow in Shuttle Middeck.

2.7 Plug →|← ORCA O2 Outlet Line (MW QD011) QD

2.8 Notify **MCC-H** of results.

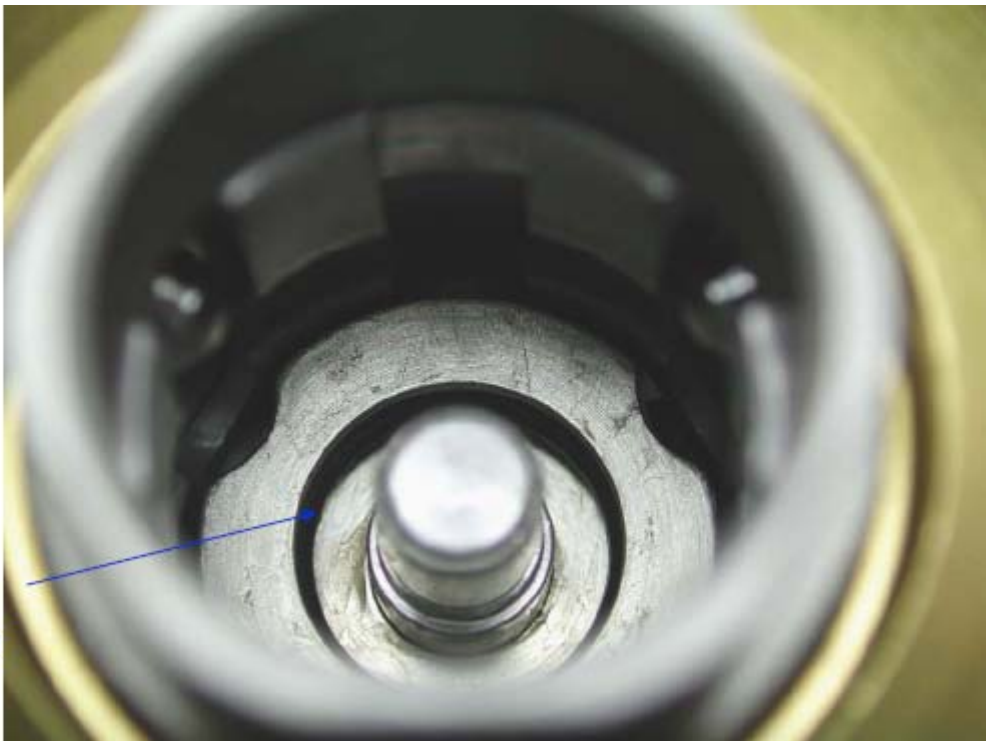


Figure 2: Properly seated O-ring.

Figure 3: Unseated O-ring.

Good Morning Crew!

After yesterday's outstanding Transfer Ops, we have a new nickname for you:

Super Tran  fers!

The Transfer List Excel file, FD06_TransferList_STS115.xls, is located on the KFX machine in **C:\OCA-up\transfer**.

For ISS, the Transfer List Excel file, FD06_TransferList_STS115.xls, is located in **K:\OCA-up\transfer**.

Questions for the Crew:

- **Item 19.1:** The ALSP Drug Pack – this was a swap item – is the corresponding item #702 complete as well? Also, did this item fit within its designated location in the ALSP or did you need to implement the workaround? Please report.
- **Item 33:** We think this item is in the 'Temp Stowage' location of LAB1D4 rack front until Checkout on FD8. Can you please confirm? We'll call this one complete once the Checkout is completed and this item is in its 'Stowage at Undock' location.
- **Item 42:** This was a swap item. Can you confirm the corresponding item #730 is complete as well?
- **Item 43:** This was also a swap item. Can you confirm the corresponding item #510b is complete?
- **Item 44:** We copied the temp stowage location of 'EVA Systems Mesh Bag' for this item. Just a reminder, this item is not considered complete until it has been stowed in its 'Stowage at Undock' location.

Transfer Choreography for FD6:

- Transfer MBS Camera (CLPA) to the Middeck (Item #500)
- General Transfers

Transfer Notes

- Just a friendly reminder to please be sure to review the 'PROCEDURES/**Constraints**/**Comments' column prior to transferring the item.
- The Middeck Return Packing configurations have been uplinked for your reference.
- We're looking into return location for the 6B SARJ Launch Restraint. For now, please temp stow the item, and we'll get back to you with a location.

Please incorporate uplink pages as follows (call us with any questions):

In the MDDK Transfer List '**RESUPPLY'** tab
Replace Page(s): 3, 13, and 16

In the MDDK Transfer List '**RETURN'** tab
Replace Page(s): 4, and 13
Make the following Pen & Ink changes (if desired):

- **PAGE 2:** Item 407: Change weight from 23.7 to 24.32.

Changes to the Transfer List are detailed below:

MIDDECK RESUPPLY

Item 8: Updated procedure reference and FD activity to reflect inspection of this item on FD6.
Item 32: Updated the constraints to transfer after CWC fill #11 on FD9.
Item 44: Updated 'Temp Stowage' to reflect called down temp stowage location.

MIDDECK RETURN

Item 407: Updated weight
Item 514: Updated Quantity, added clarifying notes, and updated weight.
Item 801: New Item

STS-115/12A Resupply Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
	☑	5		7	ISS PHOTO TV RESUPPLY BAG	1 hlf	EXT A/L FLOOR BAG		LAB1D3	17.81	
X				8	ORCA O2 OUTLET LINE	1	EXT A/L FLOOR BAG	A/L1O1		10	**Transfer after FD6 timelined inspection activity ORCA C/O** {13-1211 (MSG 55) ORCA OUTLET HOSE WITH CHECK VALVE TRANSFER AND CHECKOUT}. If item does not pass inspection, stage in Middeck and wait for further instructions. **Does not have a yellow transfer label.
	☑	5		9	BGA BOLT RETAINER [QTY 8]	2 ziplocks	EXT A/L FLOOR BAG	NOD1D1 {mesh bag}		13.36	**Transfer prior to EVA 3.** **Does not have a yellow transfer label.

STS-115/12A Resupply Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
X				32	SILVER BIOCIDE SYRINGE KIT [s/n 1001]	1	MD FLOOR PORT 1 (Bag A)	MDDK deployed	NOD1D2 {M-02 bag s/n 1026}	1.34	**Transfer after 11th CWC fill is complete on FD9.** **6 of these syringes are used for CWC fills.
				33	HMS DEFIBRILLATOR [new] [s/n 1003]	1	MD FLOOR PORT 1 (Bag A)	LAB1D4 Rack Front	LAB1D4_J1	36.5	**The yellow tag on this item may now be removed, this item has been certified for use on ISS.** Checked out FD8 per {13-0027 2.8.375 DEFIBRILLATOR - CHECKOUT} {SODF: Uplinked Procedures: Med Ops} **Ref. Item #19.2 for items to stow in lid of Defibrillator prior to C/O of this item. **Swap. Ref. Item #717 on the 'Return' Tab for return of the 'OLD' Defibrillator.
	☑	5		34	MICROBIOLOGY WATER ANALYSIS KIT - 3 [s/n's: 1168, 1169, 1170]	1 ziplock	MD FLOOR PORT 1 (Bag A)		NOD1D4_D1	1.2	

STS-115/12A Resupply Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
	☑	5		41	CREW PREFERENCE ZIPLOCK [Williams]	1 ziplock	MD FLOOR STBD 1 (Bag C)		LAB1S1 {TESS}	2.70	
	☑	5		42	SAFETY TETHER 85FT [p/n SED33116109-307] [s/n 1008]	1	MD CEIL PORT 1 (Bag E)		A/L1D2 Tether Staging Area	13.00	**Transfer post EVA 3.** **Swap. Reference Item #730 on the 'Return' Tab.
	☑	5		43	BRT [p/n SEG33110400-305] [s/n 1003]	1	MD CEIL PORT 1 (Bag E)		A/L1O0 {1.0 CTB s/n 1013, b/c 002308J}	7.90	**Transfer post EVA 3.** **Swap. Reference Item #510b on the 'Return' Tab. **Stow in 1.0 CTB: MUT AND MWS PARTS, s/n 1013, b/c 002308J.
X				44	1.5" LEG SIZING RING (LA)	1	MD CEIL STBD 1 (Bag G)	EVA Systems Mesh Bag	NOD1D2 {M-02 Bag s/n 1010, b/c 003027J}	3.1	**These are for LA and will not be used for docked operations.
				45	MWS T-Bar [p/n SEG33110493-305] [s/n 1031]	1	MD CEIL STBD 2 (Bag H)		A/L1O1 {1.0 CTB s/n 1033, b/c 002918J}	9.00	**Transfer post EVA 3.** **Stow in 1.0 CTB BACKUP EVA HDW FOR RETURN AFTER EVAS, s/n 1033, b/c 002918J.

STS-115/12A Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				510a	Return Item 510a [MWS T-Bar, p/n SEG33110493-305, s/n 1007, b/c 00008729J]	1	LAB1D2 {Mesh Bag}		MD FLOOR STBD 2 (Bag H)	9.00	**Transfer post EVA 3** **Swap. Ref. Item #45 on the 'Resupply' Tab.
				510b	Return Item 510b [BRT, p/n SEG33110400-305, s/n 1002]	1	LAB1D2 {Mesh Bag}		MD CEIL PORT 1 (Bag E)	7.90	**Transfer post EVA 3** **Swap. Ref. Item #43 on the 'Resupply' Tab.
				510c	Return Item 510c [Adjustable Fuse Tether, s/n 1028]	1	LAB1D2 {Mesh Bag}		MF71E	2.60	
				510.1	EVA Cuff Checklists	3	LAB1D2 {Mesh Bag}		MF43H {SODF Locker}	1.80	
				512	Return Bag 512 [Russian Items]	1 hlf	LAB1D2		MF71M	28.34	
				513	Return Item 513 [3 bundles of 6 Food Containers]	3	LAB1D2		EXT A/L FLOOR BAG	39.60	
X				514	Return Item 514 [Russian Handcontrollers] [qty 3 Translational Handcontrollers] [qty 4 Rotational Handcontrollers]	7	LAB1D2 {Mesh Bag}		EXT A/L FLOOR BAG	17.40	**Use clothing to wrap and protect these items when packing into the EXT A/L FLOOR BAG.**

STS-115/12A Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
Return Realtime Additions											
X				801	SLD Broken Pieces [Cable Stop Cap, SLD Cable Stop, Ball Shank, Fillister Head Screw]	1 ziplock	NOD1D4_K2 {1.0 CTB s/n 1080, b/c 003970J}		MA9L	0.15	**These pieces were identified last week (GMT 250) when the SLD failed **Ziplock is stowed in 1.0 CTB: Broken/Expired Items, s/n 1080, b/c 003970J.

Today, there will be two CWC fills and three PWR fills.

FD6 Shuttle/ISS H2O Container Fill Details - Shuttle Crew

For today's CWC fills, use any of the following CWCs: 1066, 1072, 1077 (on Middeck), or 1030, 1035 (pregathered on ISS), or 1043 located on the Water Wall (NOD1P2).

SHUTTLE/ISS H2O CONT FILL
(ORB OPS, ECLS)

For CWC Fill #5 use the following details:
Ag Biocide is req'd. (Use syringe from Ag biocide kit s/n 1005)
Sample is req'd.
Fill Duration: ~50 minutes

For CWC Fill #6 use the following details:
Ag Biocide is req'd. (Use syringe from Ag biocide kit s/n 1005)
Sample is not req'd.
Fill Duration: ~50 minutes

After the fills are complete, report Serial Numbers and Barcodes to MCC, insert green label in CWC window; apply decals to CWC ends; and mark CWC serial numbers on the end decals. Transfer the two filled CWCs to NOD1P3. If there is insufficient room for the bags at this ISS location, stow CWCs at NOD1P1 and report to MCC.

FD6 PWR Fill Details - Shuttle Crew

For today's PWR fills, use the following PWRs: 1023 and 1024 (pregathered on ISS), and 1005 (Used for EMU recharge after EVA 2. Located in A/L1D1_A2 on ISS).

PWR FILL
(ORB OPS, ECLS)

Each fill will take ~30 minutes. Transfer PWRs 1023 and 1024 to ISS (A/L1D1_A1) and PWR 1005 to ISS (A/L1D1_A2).

SASA, BSP and XPDR Tie Down Plan

- If a bolt failure occurs during remove and replace of SASA, S1 S-Band BSP or XPDR during EVA 3 such that the ORU cannot be removed or securely attached to structure, installation of Long Duration Tie Down tethers and adjustable tethers will be required to safe the vehicle. On MCC go, implement applicable tie down scheme shown on attached pages for affected ORU and location.

- Page 7 shows an alternate tether configuration for the SASA to Z1 tether #2 location if the adjustable tether is too short to reach the designated Z1 handhold stanchion.

- Page 15 shows an alternate tether configuration for the S1 S-band BSP or XPDR tiedown if all of the Long Duration Tie Down tethers are used in other tiedown locations.

Four Long Duration Tie Down tethers are located in the P6 Aux bag attached to starboard side of forward face of P6 long spacer.

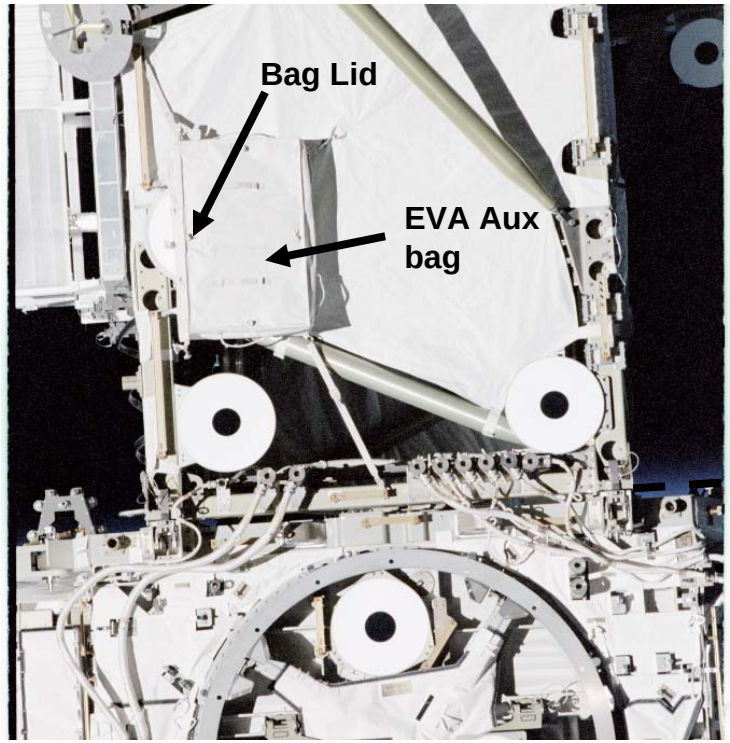


Figure 1. P6 and Z1 Forward face, looking aft

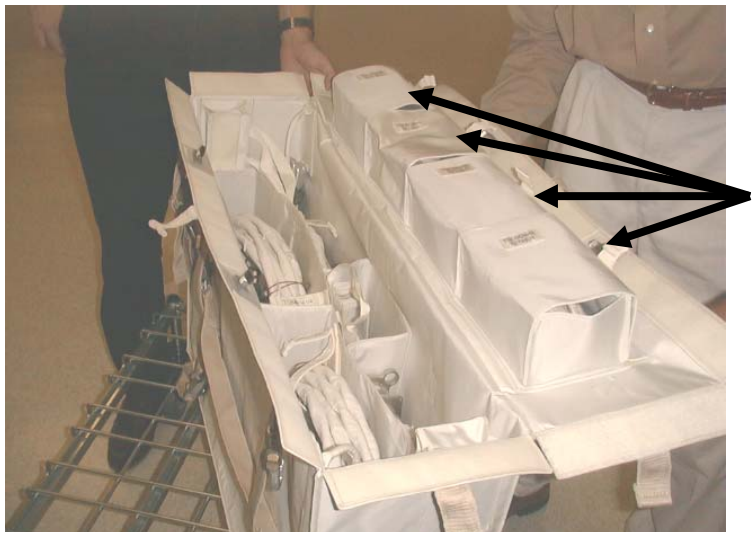
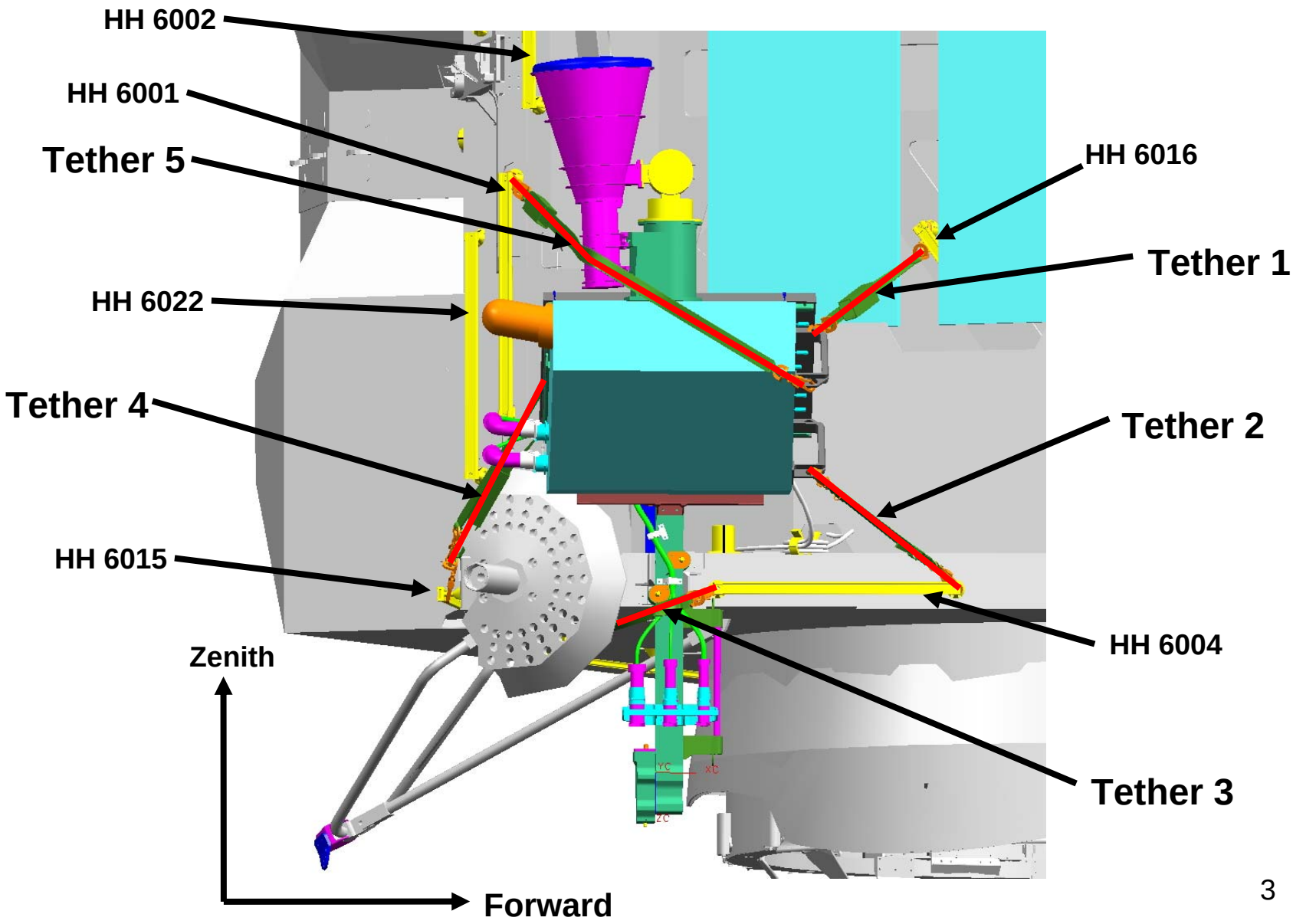
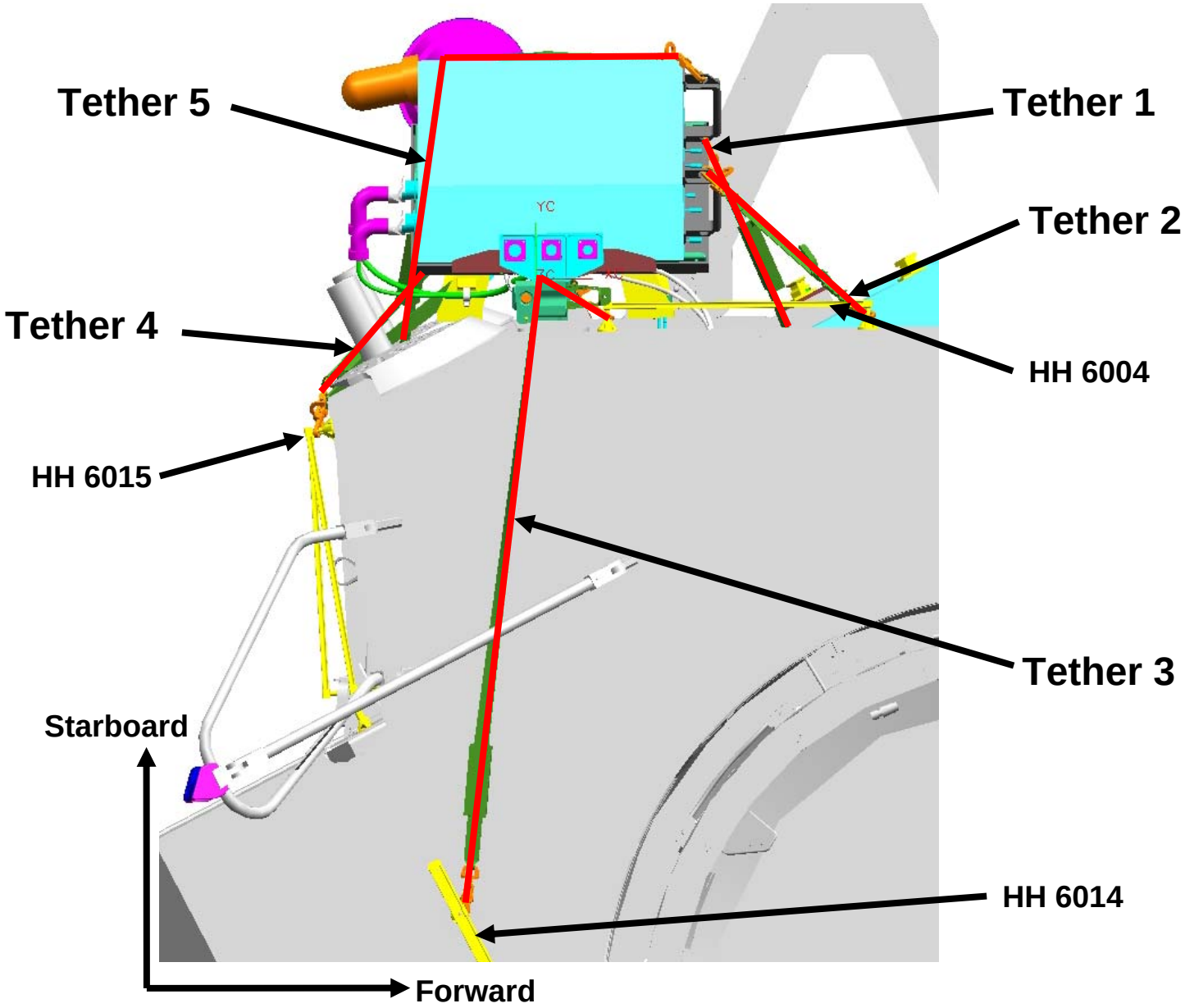


Figure 2. P6 Aux Bag with Lid Open

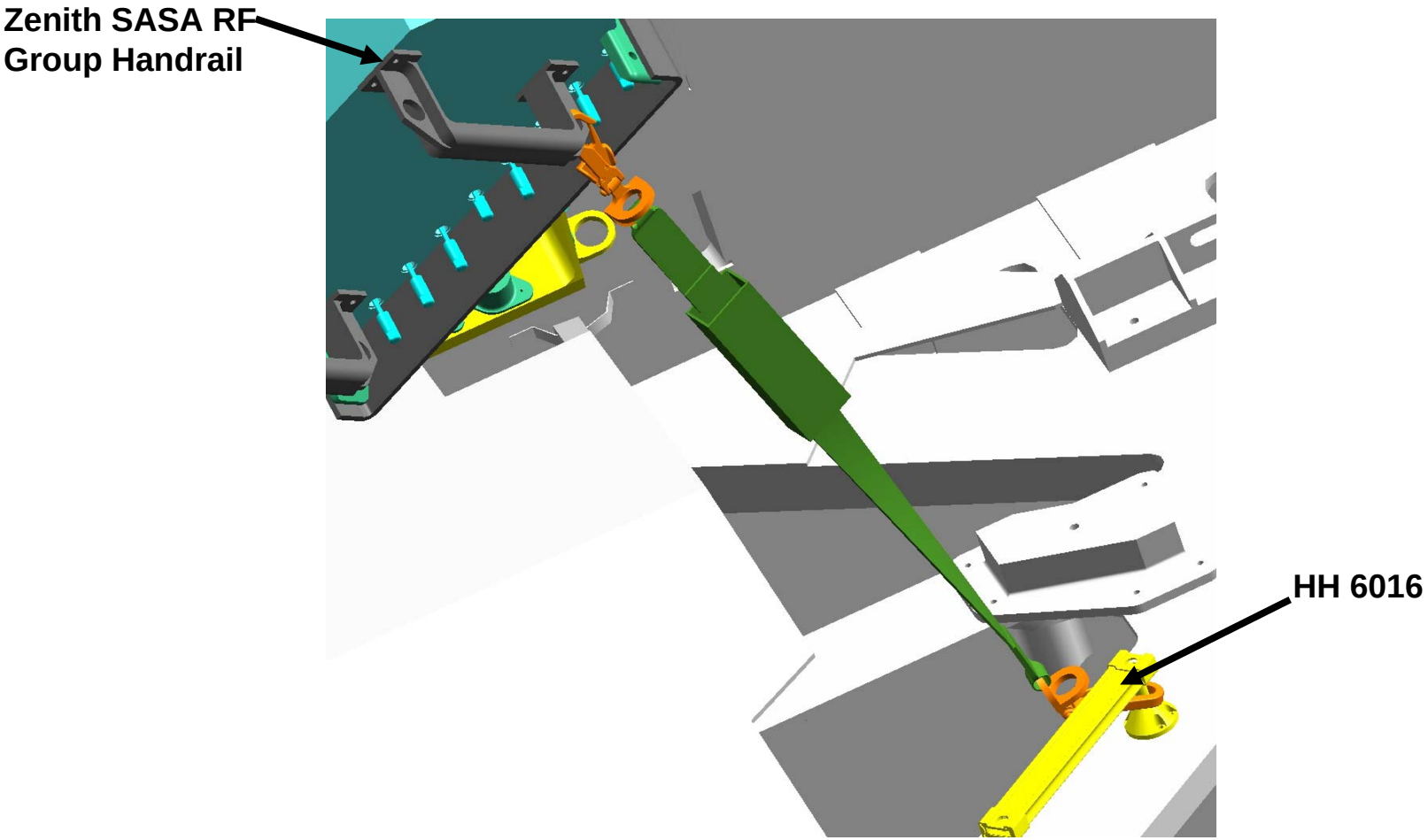
SASA Tie Down on Z1 (looking port)



SASA Tie Down on Z1 (looking zenith)

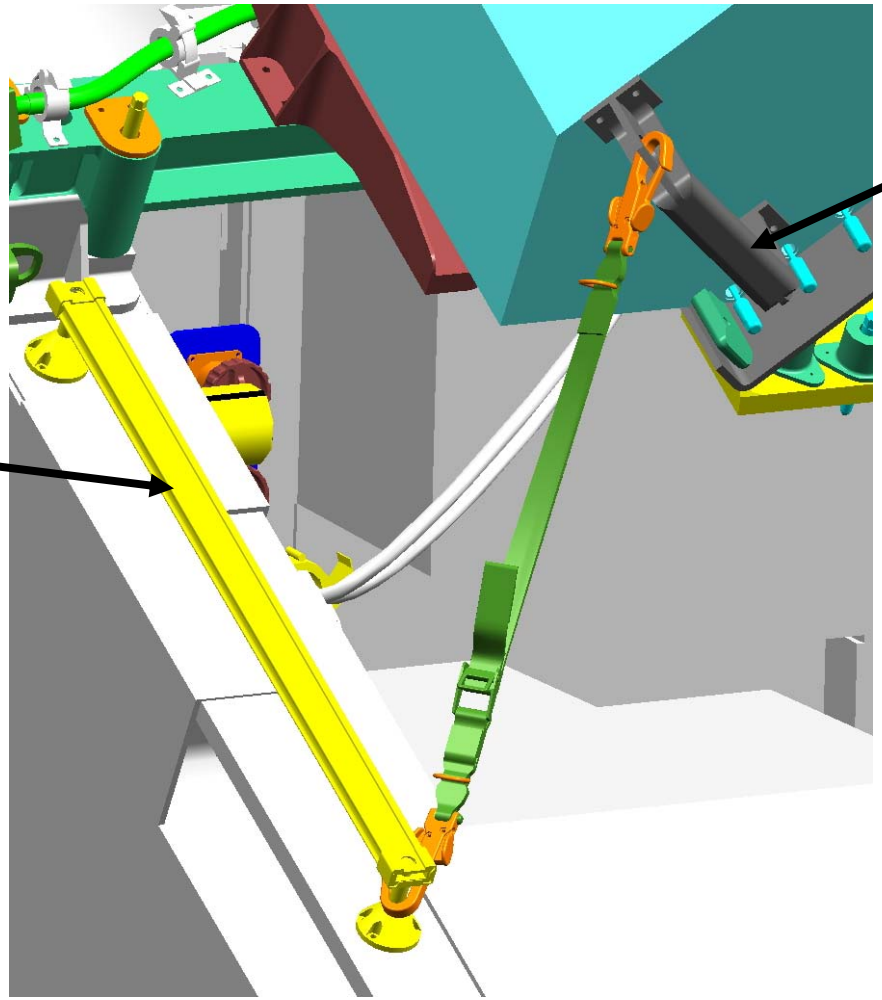


SASA Tie Down on Z1 – Tether 1 Detail



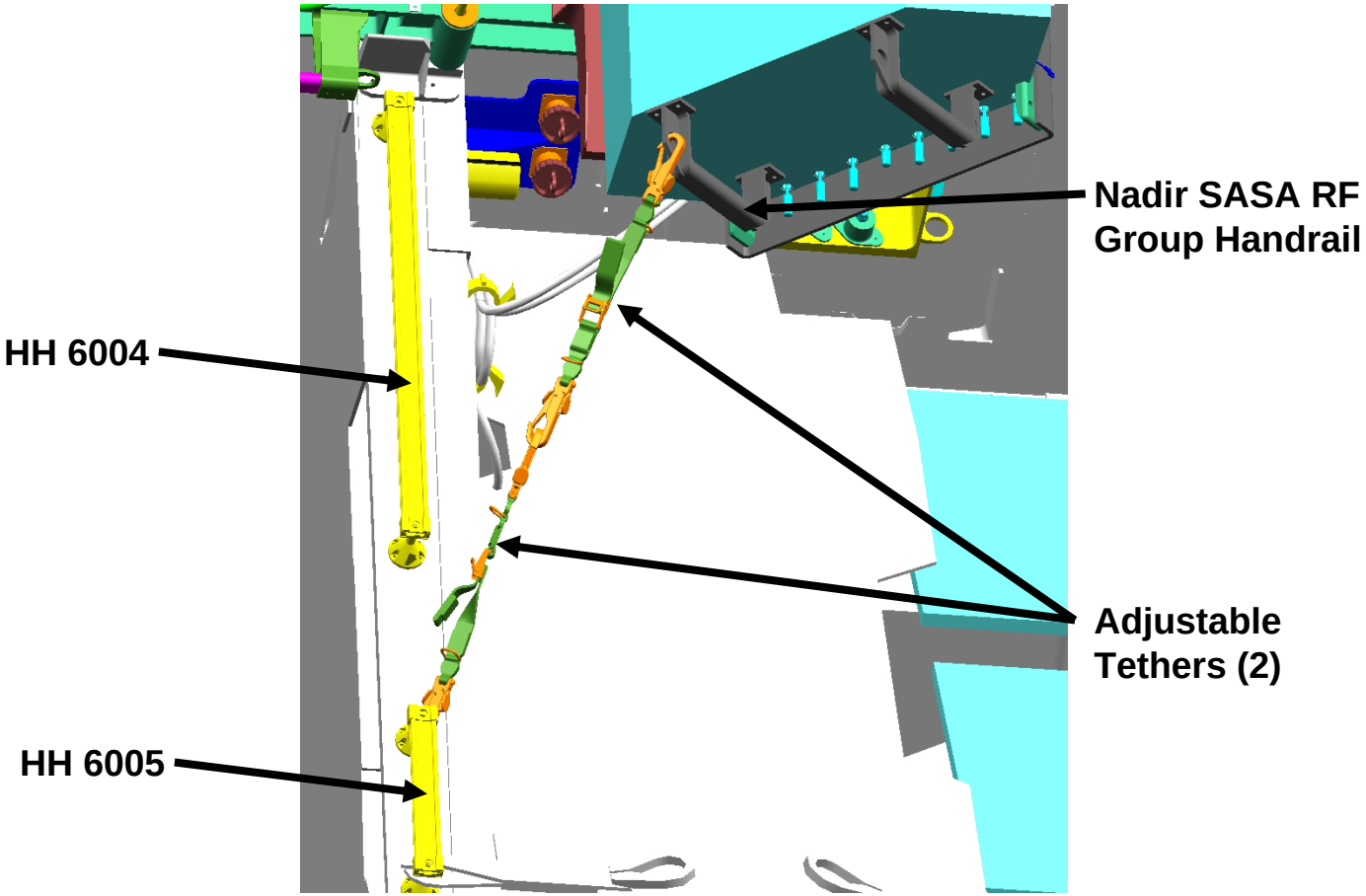
Long Duration Tether Length = 39.1”

SASA Tie Down on Z1 – Tether 2 Detail

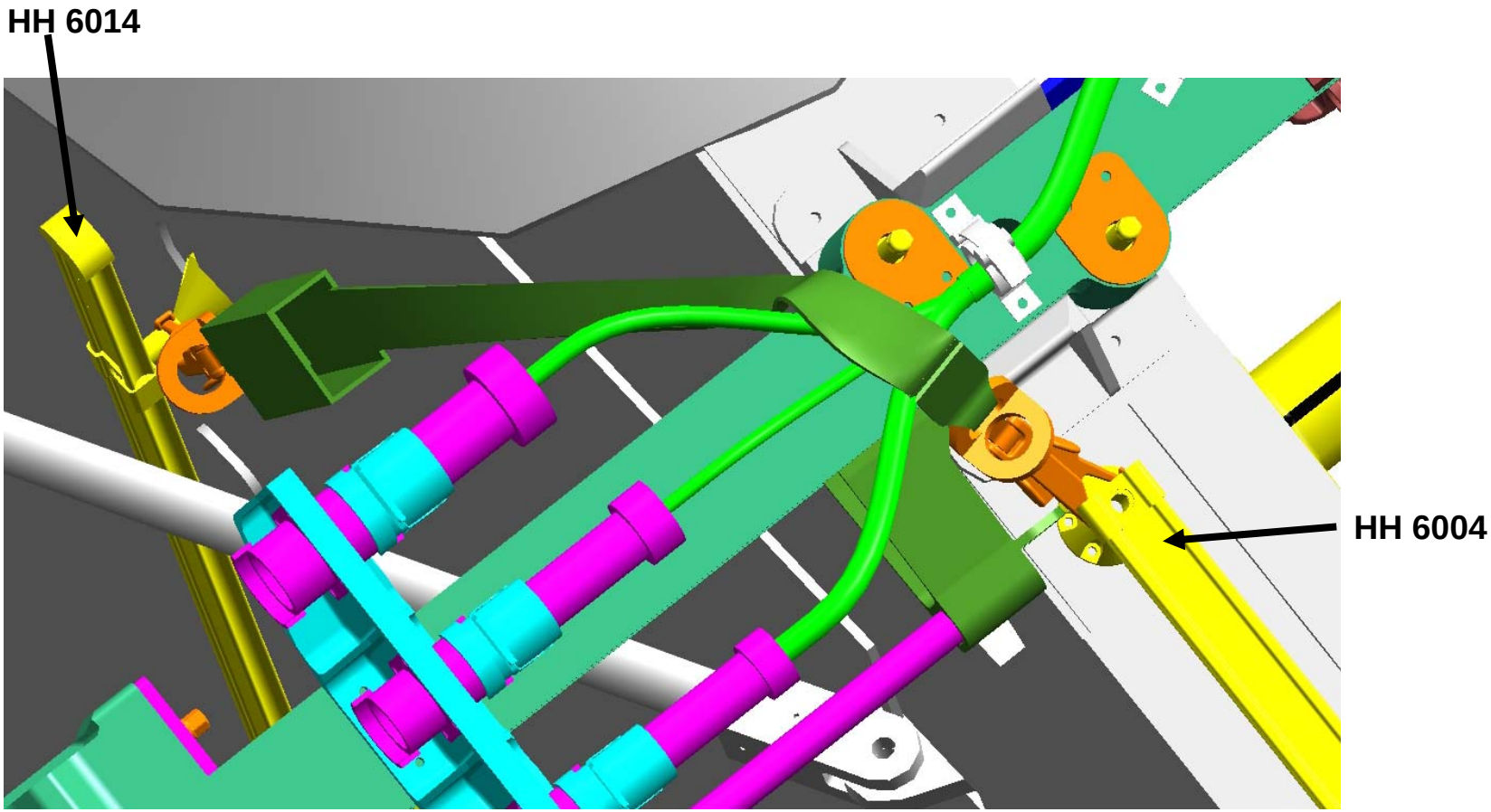


Adjustable Crew Hook Tether Length = 25”

Alternate Config for Tether 2 Position

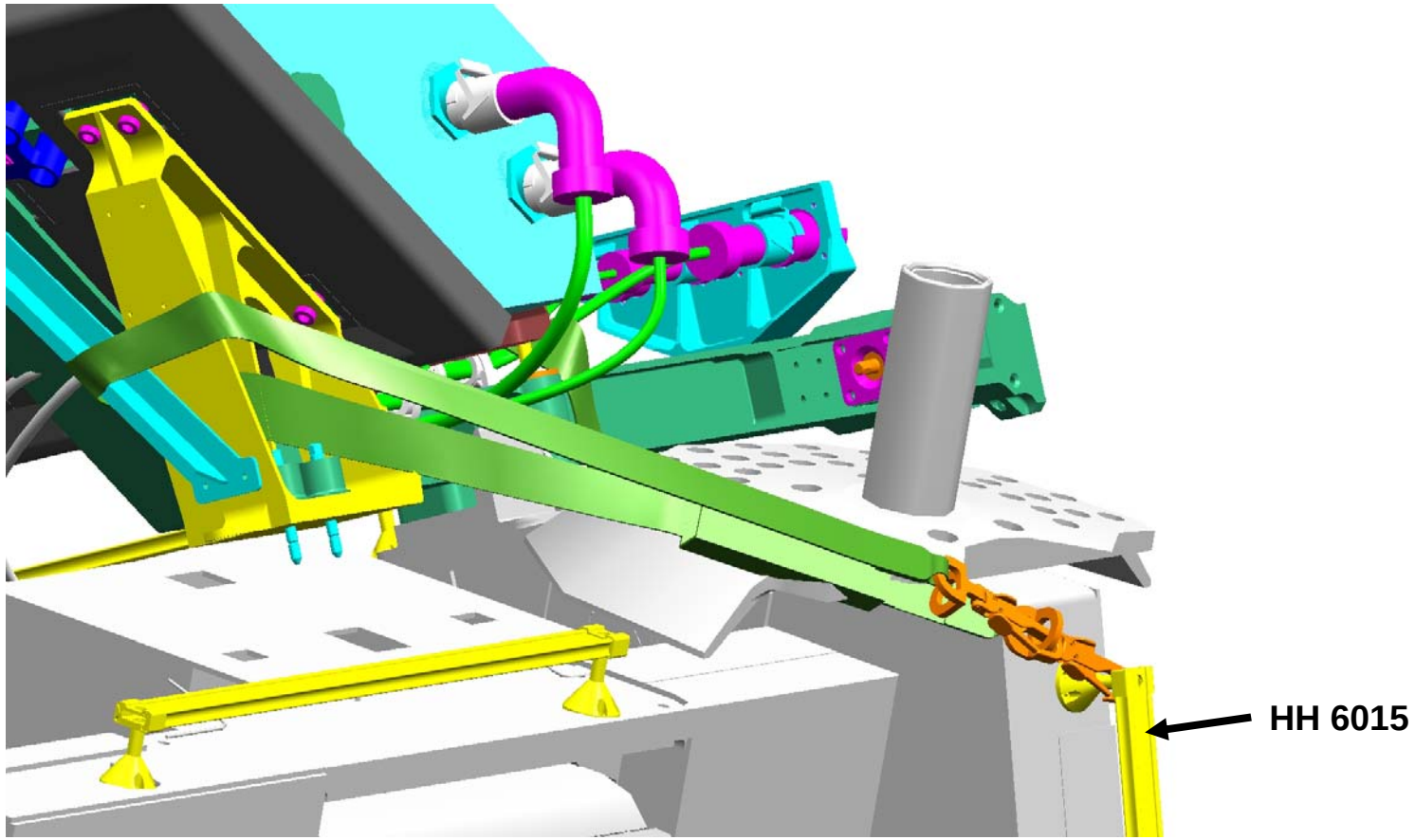


SASA Tie Down on Z1 – Tether 3 Detail



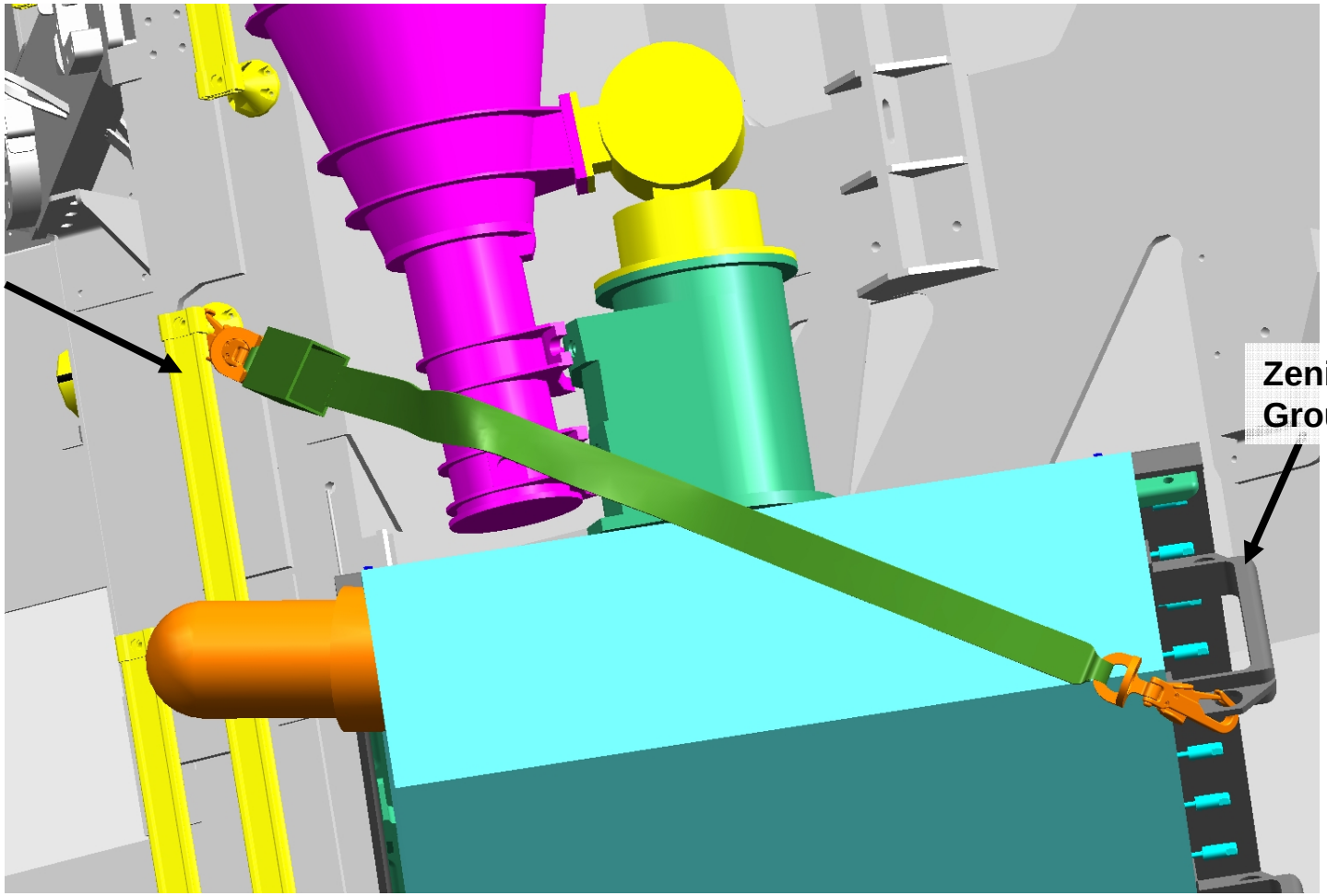
Long Duration Tether Length = 75.9”

SASA Tie Down on Z1 – Tether 4 Detail



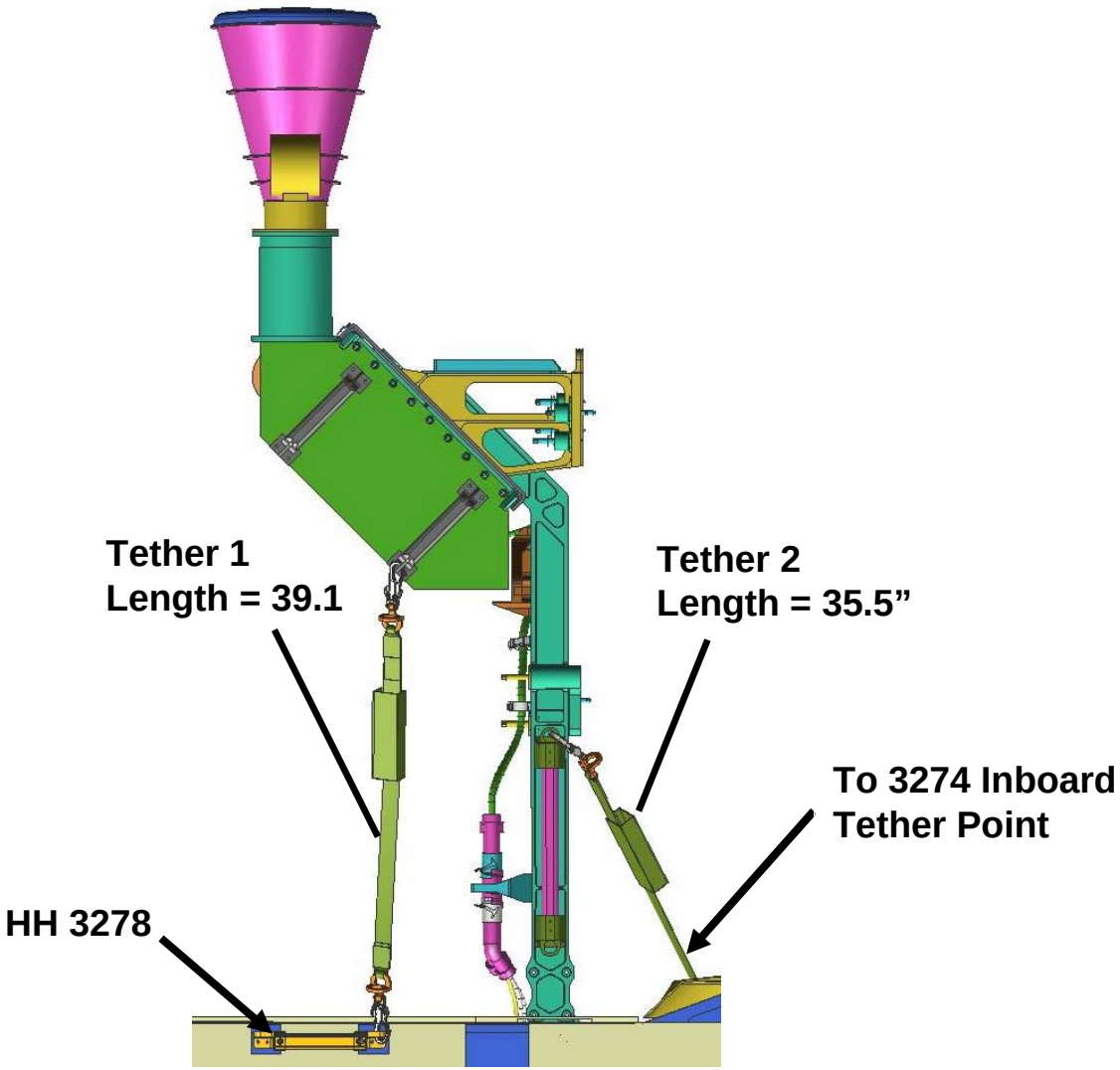
Long Duration Tether Length = 77.7”

SASA Tie Down on Z1 – Tether 5 Detail

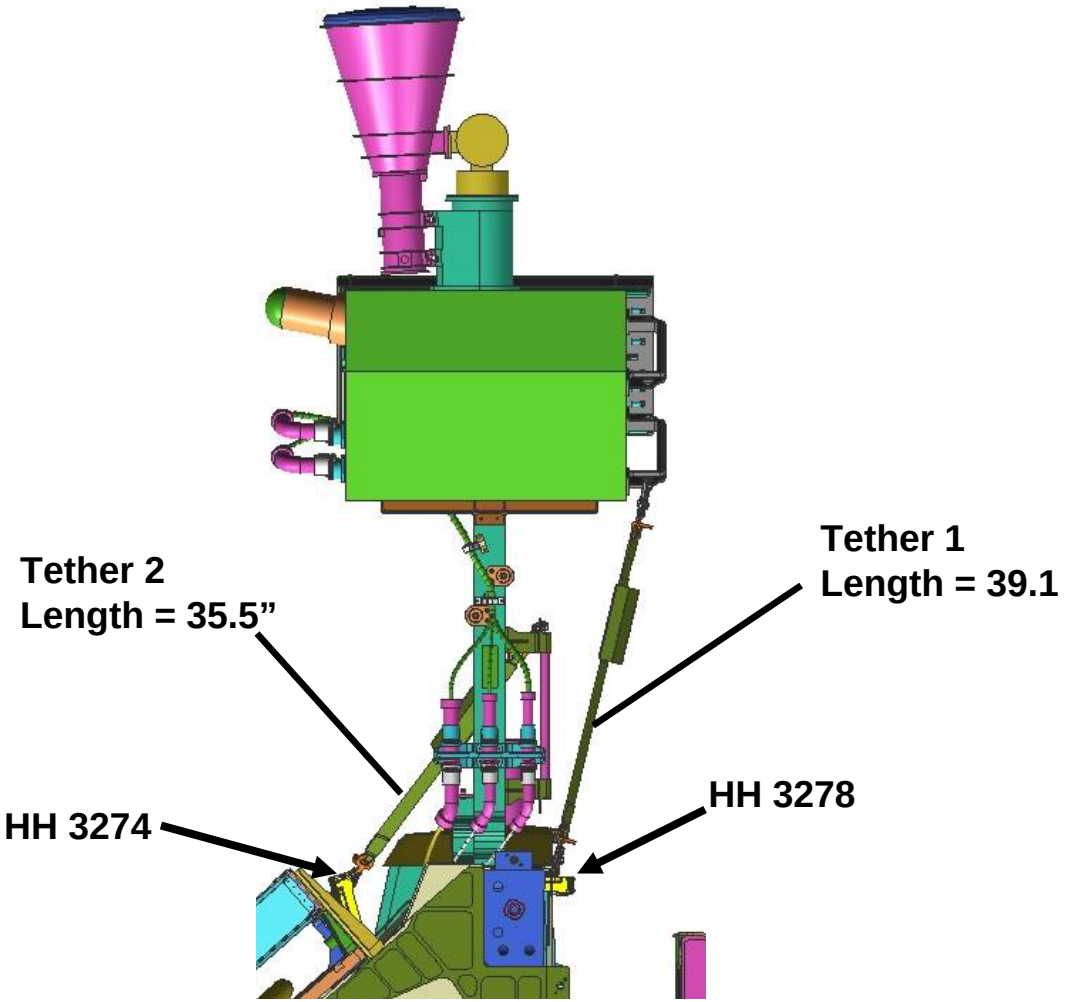


Long Duration Tether Length = 64.8”

SASA Tie Down on S1 (looking forward)



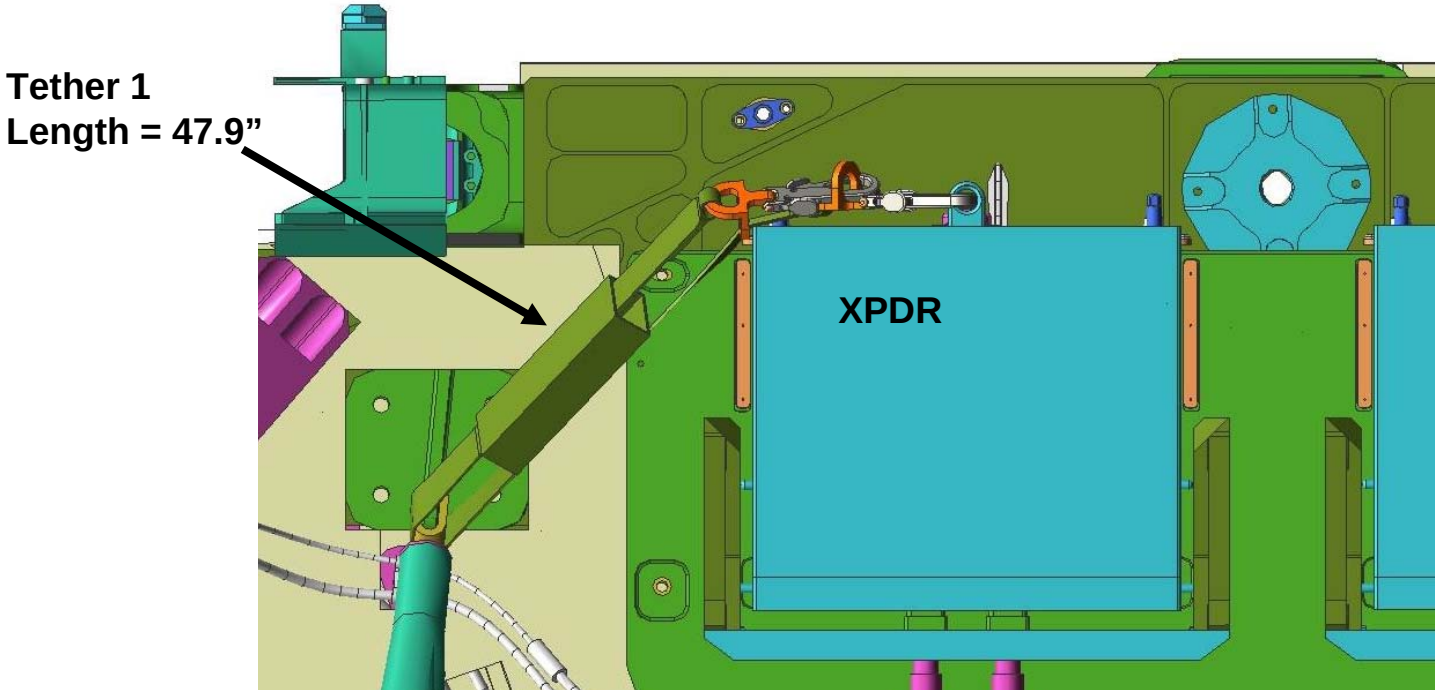
SASA Tie Down on S1 (looking starboard)



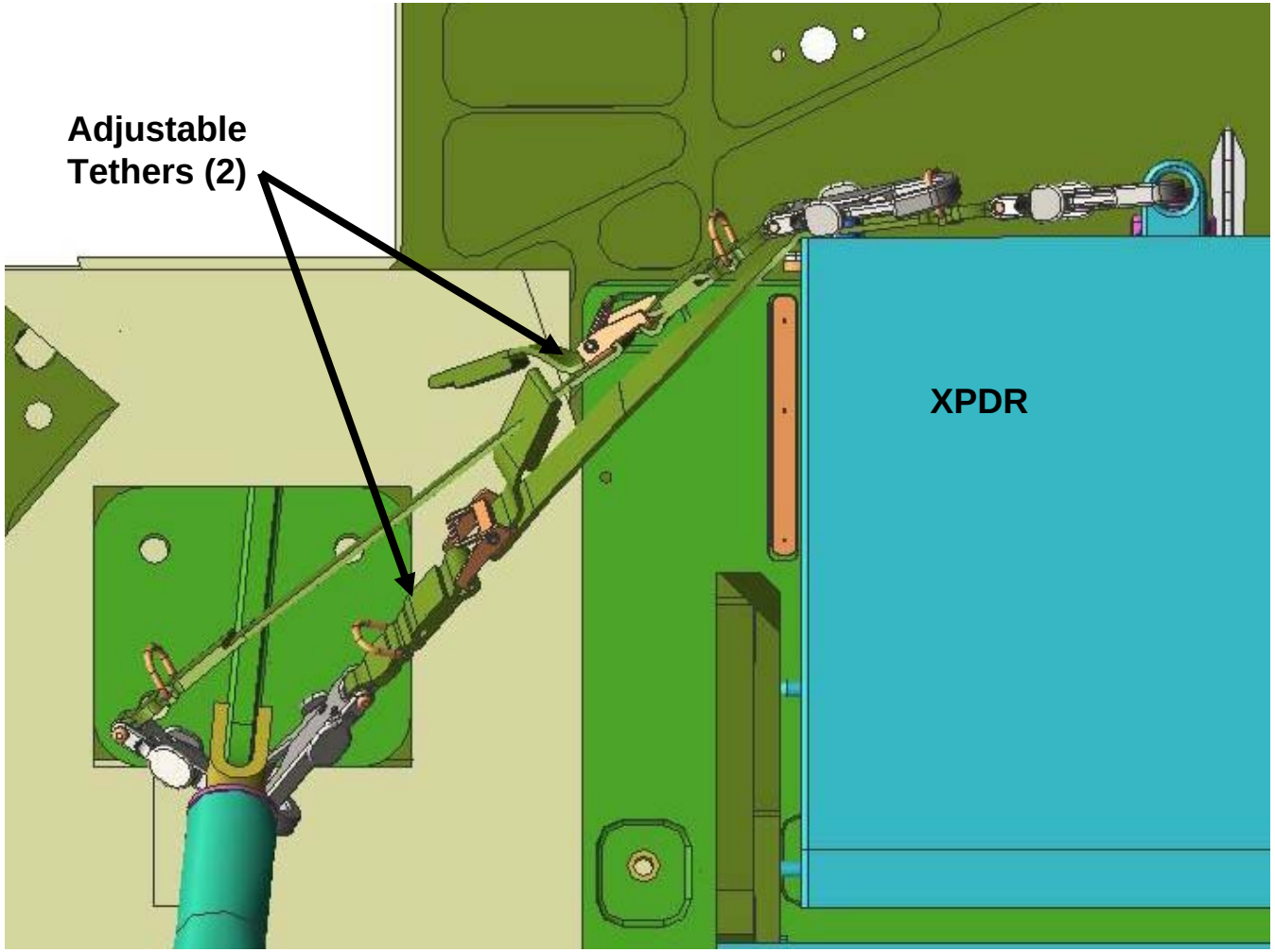
S1 S-Band BSP & XPDR Worksite

S1 S-Band BSP & XPDR Tie Down

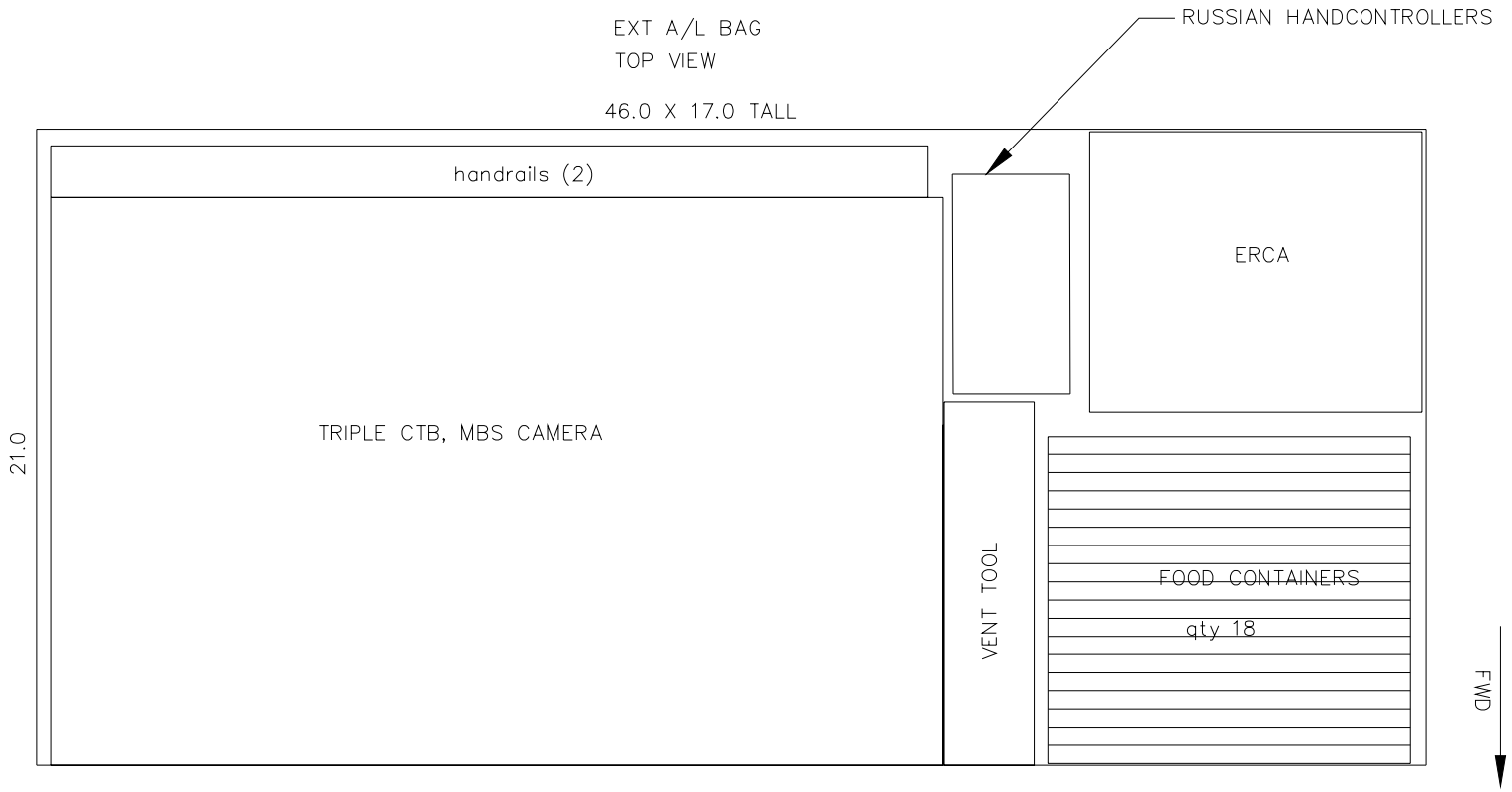
XPDR shown, BSP tie down is mirror image



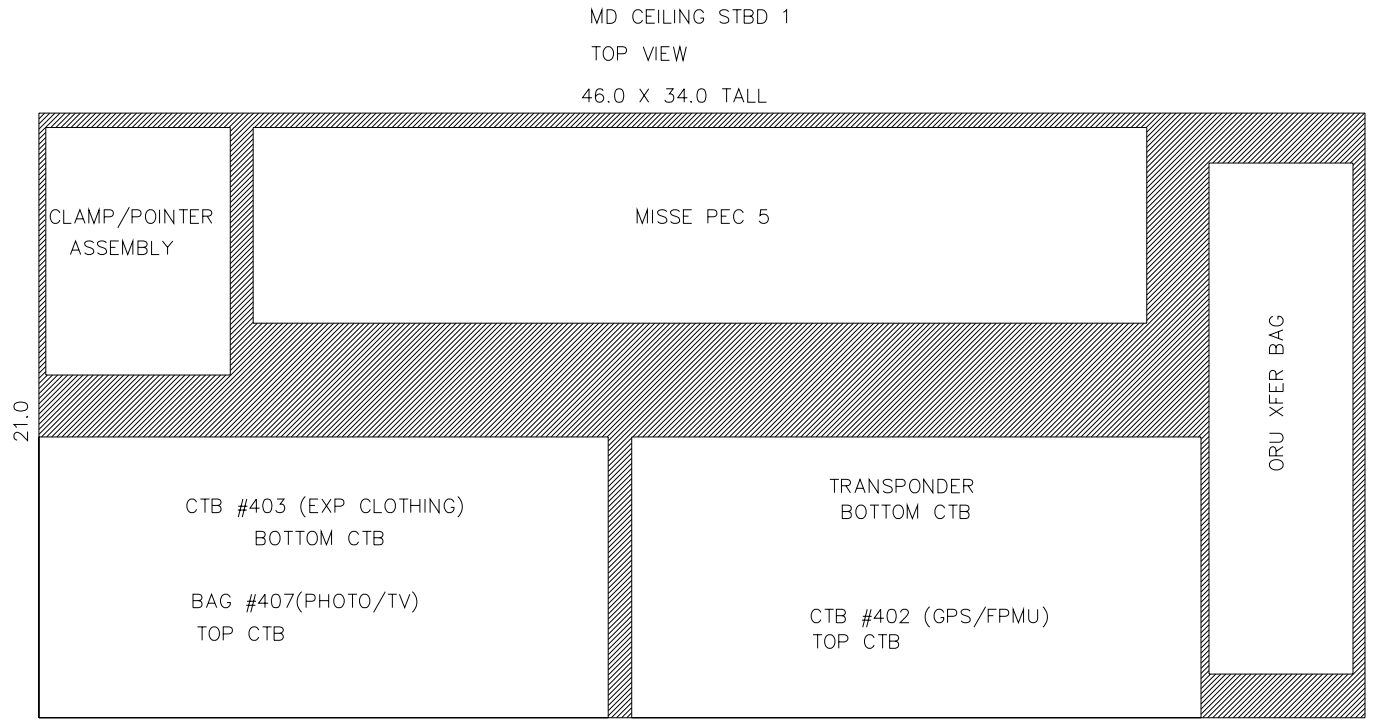
S1 S-Band XPDR Alternative Tie Down Plan Stowage Plan




BAG A PORT 1 FLOOR
TOP VIEW
46.0 X 17.0 TALL
21.0
BAG #405
DEFIBRILLATOR
CTB W/ ABSCP
EXISTING CUSHION
ALSP
MINERAL SYRINGE KIT
SAMPLE/PURGE KIT
BAG #406
PLACE ALSP BETWEEN EXISTING CUSHION AND ABSCP.
BAG STACK IS FULL TO THE WEIGHT LIMITS
FWD



REMOVE EXISTING CUSHION BLOCKS THAT CONTAINED THE BGA BOLTS AND ORCA.
PLACE THE 2 SMALL CUSHION BLOCKS IN AVAILABLE SPACE FOR HARDWARE PROTECTION.
IF ORCA CUSHION DOES NOT FIT IN 10 MLE BAG, RETURN IN MESH BAG IN A/L.
USE EWIS CUSHIONS AND/OR CUSHION FROM BAG C TO PROTECT HANDCONTROLLERS, VENT TOOL AND HANDRAILS.



PLACE MISSE HINGES TOWARDS CEILING
PLACE MISSE AS CLOSE TO CENTER IN THE FWD/AFT DIRECTION OF THE 10 MLE BAG.
PLACE THE ORU XFER BAG AS CLOSE TO CENTER IN THE PORT/STBD DIRECTION OF THE 10 MLE BAG.
FILL IN HATCHED(GREY AREA) WITH CUSHION/CLOTHING

NOTE:

"THIS PLAN NEEDS TO BE FOLLOWED AS CLOSELY AS POSSIBLE IN ORDER TO KEEP OUR C.G. WITHIN LIMITS.
10 MLE BAG IS AT THE WEIGHT LIMIT; PLEASE DO NOT ADDITIONAL HARDWARE