STS-124 / 1J

FD 05 Execute Package

MSG	Page(s)	Title
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025	14	FD05 Mission Summary **(pdf)**
027	15 - 16	JTVE Boom Connector Cover Re-Installation Instruction **(pdf)**
029	17	FD5 Communications Utilization Matrix **(pdf)**
031A	18 - 22	FD05 EVA Deltas **(pdf)**
026	---	FD05 Transfer Message **(pdf - Electronic Only)**
028A	---	Stowage Locations for FD05 Plan (GMT 156/157) **(pdf - Electronic Only)**

Approved by FAO: *Jaime Marshik*

Last Updated: Jun 4 2008 8:59AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX

MSG NO.	TITLE
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031	FD05 EVA Deltas

1. Cryo Config
   For today's cryo config, the active tanks will be O2 Tanks 1 and 2, and H2 Tanks 1 and 4.

   R1 O2, H2 MANF VLV TK 1 (two) - OP (tb-OP)
   O2 TK2 HTRS A, B (two) - AUTO

   A15 CRYO TK5 HTRS O2 A, B (two) – OFF

2. Cryo System Reconfig
   Due to the potential for destratification in cryo tanks during vehicle maneuvers, EGIL has inserted steps into today's timeline prior to the maneuver to the Waste Dump attitude to preemptively activate cryo heaters. Once the maneuvers are completed, EGIL will provide additional steps real-time to reconfigure the cryo system. Similar reconfiguration steps may be necessary for future maneuvers.

3. Waste Water Dump Details
   At MET 3/22:25 perform a Waste Water Dump using SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) p. 5-2. MCC will TMBU FDA in steps B and K.

   Prior to opening the dump valve verify with MCC-H that ISS arrays are in proper config.

   Waste dump valve open time will be ~25 minutes. The tank will be dumped to 5%.

4. JPM Ingress Procedure Note
   Karen and Aki, just a reminder that there is no need to open or close the NOPA during your N2 Purge activities today.

5. Contingency Channel A Timeline
   We will be uplinking a message with the Contingency Channel A Activation summary timeline as reference only. Should the situation warrant use of this timeline information, you should utilize it in combination with ASSY OPS: 8.004 JPM CONTINGENCY CHANNEL A INITIAL ACTIVATION FLOWCHART.

6. REPLACE PAGES 2-14, 2-16 and 3-44 THROUGH 3-53.

NO EXERCISE
[DURING LCS SENSOR C/O]

06/04/08 02:39:57

REPLANNED

GMT 06/04/08 (156) — 12 10 13 11 14 12 15 13 16 14 17 15 18 16 19 17 20 18 21 19 22 20 23 21 004/00

MET Day 003

STS-124	**FD05** CDR KELLY	SLEEP	POST SLEEP					XFER ILLUM	UPDAT OFF	OBSS SENSOR C/O		A/L CHECK VLV INSTL		MDDK XFER		N2 XFER INIT		MEAL	MDDK XFER				HATCH	EXER
STS-124	PLT HAM	SLEEP	POST SLEEP							OBSS SENSOR C/O		A/L CHECK VLV INSTL	CWC	INIT 2	EXERCISE		CWC	TERM	MEAL	CWC	XFER	CRYO	ACTIVATE @*	MNVR	WASTE	TERM	MNVR
STS-124	MS1 NYBERG	SLEEP	LOG	POST SLEEP							VEST OUTFIT 1					MEAL			VEST OUTFIT 2				EXERCISE		JPM	INGRS
STS-124	MS2 GARAN	SLEEP	ALOGRN	POST SLEEP						E_LK PREP		EVA TOOL CONFG			EXERCISE			MEAL		VEST OUTFIT 2					HATCH
STS-124	MS3 FOSSUM	SLEEP	SLVA	ADSRYN	APSRTN	SOSEP	DRY	POST SLEEP		E_LK PREP		EVA TOOL CONFG	JTVE*	BSA-T	BSA-I	DRY	NODE2-PORT IMV-INSTL			EXERCISE		MEAL	MBATT/^	REDBRAY#	HATCH
STS-124	MS4 HOSHIDE	SLEEP	SLVA	POST SLEEP							VEST OUTFIT 1					JPM CH B INIT ACT		EXERCISE		MEAL			VEST OUTFIT 2		JPM	INGRS
DN	FE-2 REISMAN	SLEEP (8.5)	PS			PW	DPC	FNLK CK TRM	AR-CDRA BED 202-R&R			HANDOVER			DCS T/A	JPM CH B INIT ACT		MEAL		HANDOVER			CEVIS		RED
EXP 17	ISS CDR VOLKOV	SLEEP (8.5)	PS			PW	DPC	СВО-Э		МБИ	SE-WINDOW-MON-CDR-1				CEVIS		MEAL		DOUG RVW	AKPRP			TVIS		HATCH	♣
EXP 17	FE-1 KONONENKO	SLEEP (8.5)	PS			PW	DPC	ИП 1 МНТ	VTAPE	МБИ	СГО-АСУ-МНР-НС-REPCL			VELO + RED		NODE2-PORT IMV-INSTL			MEAL		РБО ACT		SODF DPLY	TVIS	
UP	FE-2 CHAMITOFF	SLEEP (8.5)	PS			PW	DPC	ADAPT	AR-CDRA BED 202-R&R			HANDOVER		ADAPT	MEAL		N2 XFER INIT		DOUG RVW	HANDOVER			CEVIS	H/O	ADAPT	

STS — ORBIT: 56 57 58 59 60 61 62 63 64

STS — DAY/NIGHT

STS — TDRS W -171 / E -46 / Z 275

STS — ORB ATT: BIAS -XLV -ZVV — BIAS -XLV +YVV

NOTES

*MLI RE-INSTALL

CH B ACT

*CMG TO STS #INSTL ♣AK1 AIR
@I'CNCT L OMS TO RCS
^INSTL

06/04/08 02:39:57 **REPLANNED**

GMT 06/04/08 (156) 004/00 | 22 01 | 23 02 | 06/05 03 | 01 04 | 02 05 | 03 06 | 04 07 | 05 08 | 06 09 | 07 10 | 08 11 | 09 12

MET Day 004

STS-124	**FD05** CDR KELLY	EXER; XFER GUP; XFER FER; BRIEF; PRLA*; EVA 2 PROC REVIEW; PRE SLEEP; PMC A/G; PRE SLEEP; MASK PB/TOOL CONFG; PRE SLEEP	SLEEP
STS-124	PLT HAM	ATHO*; EVA2 PROC RVW; XFER; WCS^; PRMU; PRLA*; EVA 2 PROC REVIEW; ILON; PRE SLEEP	SLEEP
STS-124	MS1 NYBERG	JPM INGRS; FSE; ACCUM; DSCNT; FSE ACM RMV; JPM SETUP; JEMRMS RACK XFER; PRE SLEEP	SLEEP; **ISS EXTERNAL SURVEY**
STS-124	MS2 GARAN	EVA 2 PROC RVW; JPM PCS INSTALL; PS; EVA 2 PROC REVIEW; PRE SLEEP; MASK PB/TOOL CONFG; 10.2 DPRS; PRE SLEEP	SLEEP; ISS A/L Campout @ 10.2 psi
STS-124	MS3 FOSSUM	EVA 2 PROC RVW; ELPS ENA; PS; EVA 2 PROC REVIEW; PRE SLEEP; DRY; MASK PB/TOOL CONFG; PRE SLEEP	SLEEP
STS-124	MS4 HOSHIDE	JPM INGRS; DRAG*; JEM CTB REL; FAN-1; JPM SETUP; JEMRMS RACK XFER; FAN-0; PRE SLEEP	SLEEP
DN	FE-2 REISMAN	RED; JEM CTB REL; PREP PEPS; ACCUM VLV OPEN; PW; PS; DPC; PS	SLEEP (8.5)
EXP 17	ISS CDR VOLKOV	♣; IMS; KПT 2; PW; EVA 2 PROC REVIEW; PW; PS; DPC; PS	SLEEP (8.5)
EXP 17	FE-1 KONONENKO	TVIS; EXER; COX-MNT; CVIU; PW; PS; DPC; PS	SLEEP (8.5)
UP	FE-2 CHAMITOFF	ADAPT; PW; WRM CWC INIT; EVA 2 PROC REVIEW; PMC; CWC; TERM; BATMT; DPC; PS	SLEEP (8.5)

STS

ORBIT: 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72

DAY/NIGHT

TDRS W -171, E -46, Z 275

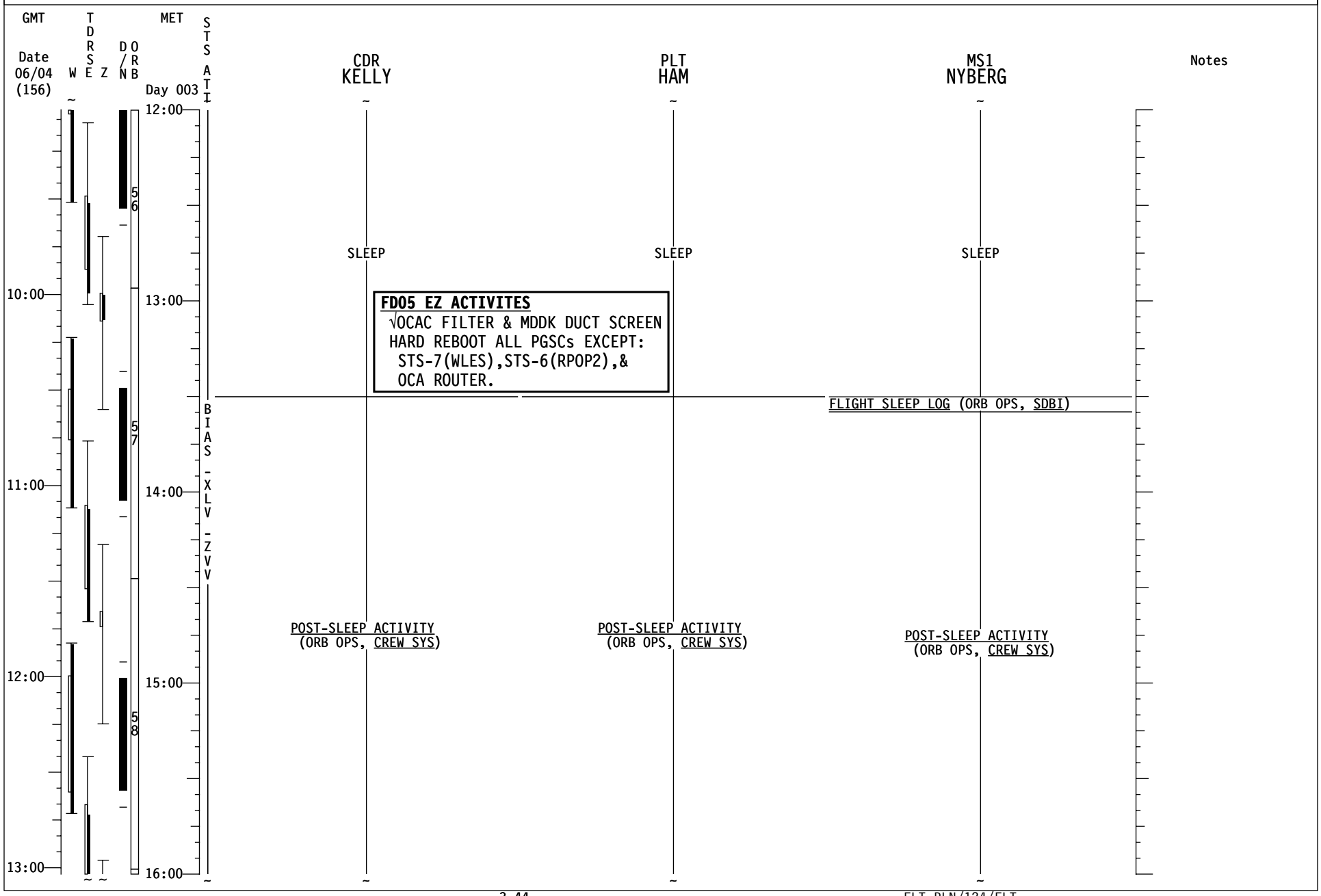
ORB ATT: BIAS -XLV -ZVV

NOTES

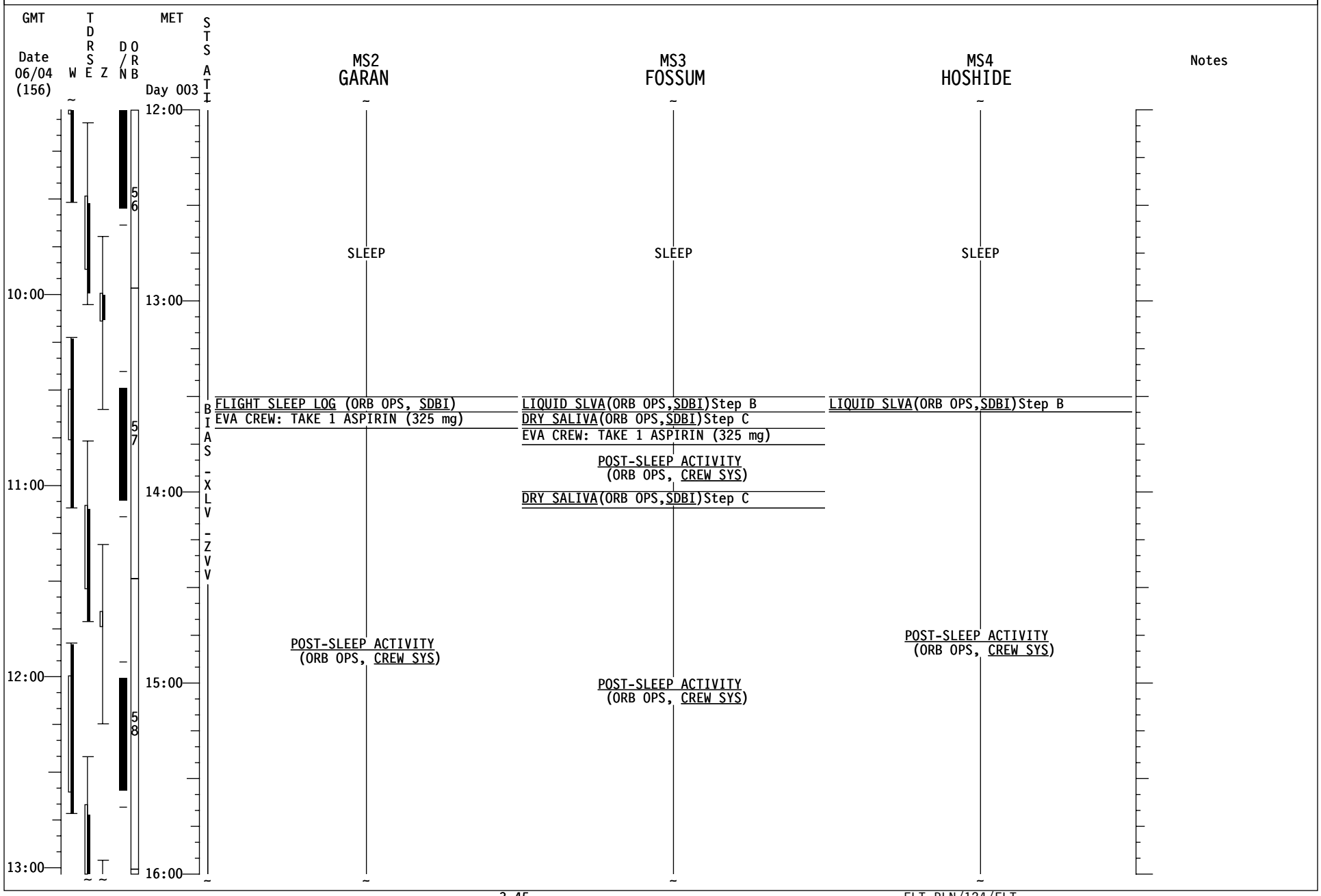
♣AK1 AIR *CLOSE
^FILTER CK
*STS TO CMG
*JEM DRAG-THRU DEPLOY

MT SURVEY MT TRANSLATION WS4 TO WS6

STS-124 FD05


GMT
Date 06/04 (156)
W
T D R S E
Z
D / N
O R B
MET
Day 003
S T S A T I
10:00
11:00
12:00
13:00
12:00
13:00
14:00
15:00
16:00
56
57
58
B I A S - X L V - Z V V
CDR KELLY
PLT HAM
MS1 NYBERG
Notes
SLEEP
SLEEP
SLEEP
FD05 EZ ACTIVITES
√OCAC FILTER & MDDK DUCT SCREEN
HARD REBOOT ALL PGSCs EXCEPT:
STS-7(WLES),STS-6(RPOP2),&
OCA ROUTER.
FLIGHT SLEEP LOG (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-124 FD05


GMT
Date 06/04 (156)
W
T D R S E
Z
D / N
O R B
MET
Day 003
S T S A T I
10:00
11:00
12:00
13:00
12:00
13:00
14:00
15:00
16:00
56
57
58
B I A S - X L V - Z V V
MS2 GARAN
SLEEP
FLIGHT SLEEP LOG (ORB OPS, SDBI)
EVA CREW: TAKE 1 ASPIRIN (325 mg)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
MS3 FOSSUM
SLEEP
LIQUID SLVA(ORB OPS,SDBI)Step B
DRY SALIVA(ORB OPS,SDBI)Step C
EVA CREW: TAKE 1 ASPIRIN (325 mg)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
DRY SALIVA(ORB OPS,SDBI)Step C
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
MS4 HOSHIDE
SLEEP
LIQUID SLVA(ORB OPS,SDBI)Step B
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
Notes

STS-124 FD05

GMT Date 06/04 (156) | W | TDRS E | Z | D/N | ORB | MET Day 003 | STS ATI

CDR KELLY

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- TRANSFER UPDATE — Ref. Transfer List & MSG 026
- OBSS SENSOR C/O (PDRS, VIEWING SUPPORT)
- ASSY OPS: 1.200 NODE 1 CHECK VLV INSTL FOR A/L CCAA SAFING — A/L CCAA Deact is not req'd in Step 1.1; Ref. Transfer List: Item 25; Ref. MSG 028
- MIDDECK TRANSFER — Ref. Transfer List: Item 704.7 and 401.3

PLT HAM

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- TV (ILLUMINATOR OPS) (PHOTO/TV, CC) — ILLUMINATORS OFF - ALL
- OBSS SENSOR C/O (PDRS, VIEWING SUPPORT)
- ASSY OPS: 1.200 NODE 1 CHECK VLV INSTL FOR A/L CCAA SAFING — A/L CCAA Deact is not req'd in Step 1.1; Ref. Transfer List: Item 25; Ref. MSG 028
- SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) INIT #2 — Ref. MSG 020
- EXERCISE

MS1 NYBERG

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- ASSY OPS: 2.002 VEST OUTFIT NOD2 PORT TO JPM - PART 1 — Skip Step 7.1 (performed by MCC-H); Ref. Transfer List: Item 7.1; Ref. MSG 028

Notes

- NO EXERCISE DURING LCS SENSOR C/O

STS-124 FD05

GMT Date 06/04 (156) | W | TDRS E | Z | D/N | ORB 59 60 61 | MET Day 003 | STS ATI BIAS-XLV-ZVV

MET	MS2 GARAN	MS3 FOSSUM	MS4 HOSHIDE	Notes
16:00	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			ASSY OPS: 2.002 VEST OUTFIT NOD2 PORT TO JPM - PART 1 Skip Step 7.1 (performed by MCC-H) Ref. Transfer List: Item 7.1 Ref. MSG 028	
	EVA SYS: 1.305 EQUIP LOCK PREP Ref. MSG 031 Ref: STS-124/1J EMU CONSUMABLES TRACKING CC	EVA SYS: 1.305 EQUIP LOCK PREP Ref. MSG 031 Ref: STS-124/1J EMU CONSUMABLES TRACKING CC		
14:00				
17:00				
	PRE EVA 2 TOOL CONFIG (EVA, TIMELINES) Ref. MSG 031	PRE EVA 2 TOOL CONFIG (EVA, TIMELINES) Ref. MSG 031		NO EXERCISE DURING LCS SENSOR C/O
15:00				
18:00				
16:00		JTVE BOOM CONNECTOR COVER RE-INSTALL Ref. MSG 027		
19:00		EVA SYS: 1.605 BSA BATT RECHRG - TERM Ref:STS-124/1J EMU CONSUMABLES TRACKING CC		
		EVA SYS: 1.605 BSA BATT RECHRG - INIT Ref:STS-124/1J EMU CONSUMABLES TRACKING CC		
	EXERCISE	DRY SALIVA(ORB OPS,SDBI)Step C		
		ASSY OPS: 3.001 NODE2 PORT AFT NPRV RMV/RPLC W/IMV VLV Ref. MSG 028	ASSY OPS: 6.003 JPM CHANNEL B INITIAL ACTIVATION - PCS	
17:00				
20:00				

STS-124 FD05

GMT Date 06/04 (156) | W E Z | D/N | ORB 61 62 63 64 | MET Day 003 | STS ATI

CDR KELLY

20:00 — JOINT OPS: 3.102 N2 TRANSFER INIT
Steps 3-5, Steps 4.7 & 4.8 not req'd.
Ref. MSG 028

BIAS -XLV -ZVV

21:00 — MEAL

MIDDECK TRANSFER
Ref. Transfer List: Item 702.1

22:00

BIAS -XLV +YVV

23:00

ASSY OPS: 4.003 JPM INGRESS
Step 1, Ref. MSG 028

00:00 — EXERCISE

PLT HAM

EXERCISE

SHUTTLE/ISS H2O CONT FILL
(ORB OPS, ECLS) TERM
Report B/C and S/N to MCC

MEAL

CWC TRANSFER Transfer 1 CWC to ISS

CRYO RECONFIG [A]
Ref. MSG 024, Item 2
I'CNCT: L OMS TO RCS (OPCL, RCS)
√MCC for proper DAP config for ATT H/O
When ISS is Free Drift,DAP:LVLH,
when rates < 0.1,DAP:AUTO
MNVR (TRK) BIAS -XLV +YVV(WASTE DUMP)
TG=2 BV=5 P=166 Y=353 OM=195
A12/AUTO/VERN Init TRK
SUPPLY/WASTE WATER DUMP(ORB OPS, ECLS)
Init Waste Dump, Ref. MSG 024, Item 3
FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)
Inspect filters and clean
as necessary

[A] R1 O2 TK3 HTRS A,B (two) - AUTO
A11 CRYO TK4 HTRS O2 A,B (two) - AUTO
A15 CRYO TK5 HTRS O2 A,B (two) - AUTO

SUPPLY/WASTE WATER DUMP
(ORB OPS, ECLS) Term Waste Dump

MNVR BIAS -XLV -ZVV
TG=2 BV=5 P=166 Y=354 OM=188
A12/AUTO/VERN Init TRK

MS1 NYBERG

MEAL

ASSY OPS: 2.003 VEST OUTFIT NOD2 PORT TO JPM - PART 2
Ref. MSG 028

EXERCISE

ASSY OPS: 4.003 JPM INGRESS Steps 1-5
Ref. MSG 028 & MSG 024, Item 4
Masks & goggles stowed in clothing locker.

Notes

UPDATE H2O WASTE DUMP QTY

STS-124 FD05

GMT Date 06/04 (156) | W | T D R S E | Z | D / N | O R B | MET Day 003 | STS ATI

MS2 GARAN

20:00 — MEAL

21:00 — ASSY OPS: 2.003 VEST OUTFIT NOD2 PORT TO JPM - PART 2
Ref. MSG 028

23:00 — ASSY OPS: 4.003 JPM INGRESS
Step 1, Ref. MSG 028

MS3 FOSSUM

ASSY OPS: 3.001 NODE2 PORT AFT NPRV RMV/RPLC W/IMV VLV
Ref. MSG 028

EXERCISE

MEAL

EVA SYS: 1.515 EMU METOX/LIOH/BATT RPLC
Ref: STS-124/1J EMU COMSUMABLES TRACKING CC

EVA SYS: 1.307 REBA INSTL/RMVL-INSTALL
Ref: STS-124/1J EMU CONSUMABLES TRACKING CC

DRY SALIVA(ORB OPS,SDBI)Step C

ASSY OPS: 4.003 JPM INGRESS
Step 1, Ref. MSG 028

MS4 HOSHIDE

ASSY OPS: 6.003 JPM CHANNEL B INITIAL ACTIVATION - PCS

EXERCISE

MEAL

ASSY OPS: 2.003 VEST OUTFIT NOD2 PORT TO JPM - PART 2
Ref. MSG 028

ASSY OPS: 4.003 JPM INGRESS Steps 1-5
Ref. MSG 028 & MSG 024, Item 4
Masks & goggles stowed in clothing locker.

Notes

STS-124 FD05

GMT Date 06/04 (156) | W E Z | D/N | ORB | MET Day 004 | STS ATI

64 65 66

BIAS-XLV-ZVV

CDR KELLY

EXERCISE

DAILY STS/ISS CREW TRANSFER TAGUP

TRANSFER BRIEF
Call down status to MCC

PRLA CLOSE (ORB OPS, PRLA)

EVA PROCEDURE REVIEW
Ref. MSG 031

Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRIVATE MEDICAL CONFERENCE
Perform Via A/G 2

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA SYS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE See Page 3-52

PLT HAM

When ISS is GO for attitude control,DAP:FREE

EVA PROCEDURE REVIEW
Ref. MSG 031
Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

MIDDECK TRANSFER
Ref. Transfer List

WCS FILTER CHECK B

B WCS CRADLE - AUTO INHIBIT
Inspect hose block filter.
Change out if req'd.
WCS CRADLE - AUTO

IMU STAR OF OPTY ALIGN (ORB OPS, GNC)

PRLA CLOSE (ORB OPS, PRLA)

EVA PROCEDURE REVIEW
Ref. MSG 031

Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

TV (ILLUMINATOR OPS) (PHOTO/TV, CC)
ILLUMINATORS ON - A,D

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS1 NYBERG

ASSY OPS: 4.003 JPM INGRESS Steps 1-5
Ref. MSG 028 & MSG 024, Item 4
Masks & goggles stowed in clothing locker.

ASSY OPS: 4.005 FSE ACCUM DSCNCT
Ref. MSG 028

ASSY OPS: 4.008 FSE ACCUM REMOVAL
Ref. MSG 028

ASSY OPS: 5.005 JEM SETUP BEFORE SYS RACK XFER
Ref. MSG 028

ASSY OPS: 5.008 RACK XFER - JEMRMS,ICS, SAIBO,RYUTAI,JRSR
JEMRMS RACK XFER
Ref. MSG 028

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

Notes

STS-124 FD05

GMT Date 06/04 (156) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI

MS2 GARAN

00:00
EVA PROCEDURE REVIEW
Ref. MSG 031
Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

JPM PCS INSTALL [C]
Ref. MSG 028

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA PROCEDURE REVIEW
Ref. MSG 031
Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

[C] ASSY OPS: 2.303 PCS DEACT (Page 399)
Steps 1-5 to shutdown NOD2 PCS(Shell SN2210), powerdown NOD2 UOP1 J3,detatch cables & power supply from UOP, and xfer NOD2 PCS with supply/cables to JEM.

ASSY OPS: 2.308 PCS SETUP (Page 409)
Perform all steps to Setup PCS(Shell SN2210) and connect to JEM UOP AD5/J3. Recommended location: Port side seat track on Closeout Panel JPM1A7-08. UOP-JPM1AD5 J3. Route cable along JPM1AD standoff not to interfere with JEMRMS rack installation.

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA SYS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE See Page ~ 3-53

MS3 FOSSUM

EVA PROCEDURE REVIEW
Ref. MSG 031
Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

ASSY OPS: 6.006 JPM ELPS C/O & ENABLE

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA PROCEDURE REVIEW
Ref. MSG 031
Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

DRY SALIVA(ORB OPS,SDBI)Step C
EVA SYS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE See Page ~ 3-53

MS4 HOSHIDE

ASSY OPS: 4.003 JPM INGRESS Steps 1-5
Ref. MSG 028 & MSG 024, Item 4
Masks & goggles stowed in clothing locker.

P/TV05 ISS INTRNL OPS(HC)(P/TV,SCENES)
JEM DRAG-THRU CABLE DEPLOY
Ref. MSG 028 & Transfer List: Item 25

ASSY OPS: 4.009 JEM SYSTEM RACK FRONT BRACKET REFERENCE, CC. Ref. MSG 028
Remove Rack Front Bags from EPS2 rack & DMS2 rack and stow them near JEM AL.

When Ingressing JLP, perform:
ASSY OPS: 7.001 JLP VENT FAN ACT(DEACT) -MKAM ACT Step 1
During Ingress,relocate Node2 PBA to JLP
ASSY OPS: 5.005 JEM SETUP BEFORE SYS RACK XFER
Ref. MSG 028

ASSY OPS: 5.008 RACK XFER - JEMRMS,ICS, SAIBO,RYUTAI,JRSR
JEMRMS RACK XFER
Ref. MSG 028

ASSY OPS: 7.001 JLP VENT FAN ACT(DEACT) -MKAM DEACT Step 2
During egress, relocate PBA from JLP to Node 2

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

Notes

STS-124 FD05

GMT Date 06/05 (157) | W | T D R S E | Z | D / N | O R B | MET Day 004 | STS ATI

CDR KELLY | PLT HAM | MS1 NYBERG | Notes

04:00

EVA SYS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE
Steps 1-16

Ref: EVA 2 TOOL CONFIG (EVA, TIMELINES)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

02:00 | 05:00 | 67

BIAS-XLV-ZVV

03:00 | 06:00 | 68

WAKE UP AT 4/13:30

SLEEP | SLEEP | SLEEP

04:00 | 07:00 | 69

05:00 | 08:00

STS-124 FD05

GMT Date 06/05 (157) | W | T D R S E | Z | D / N | O R B | MET Day 004 | STS ATI

MS2 GARAN | MS3 FOSSUM | MS4 HOSHIDE | Notes

04:00 — 05:00 — 06:00 — 07:00 — 08:00

02:00 — 03:00 — 04:00 — 05:00

67 — 68 — 69

BIAS-XLV-ZVV

EVA SYS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE

Ref: EVA 2 TOOL CONFIG (EVA, TIMELINES)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SLEEP

WAKE UP AT 4/13:30

MSG 025 - FD05 MISSION SUMMARY

Good Morning Discovery!!!
Yesterday was absolutely superb performance by all of you!
Hope you are not too disappointed that there is no focused inspection today!!!!
Have a great day!

YOUR CURRENT ORBIT IS: 186 X 181 NM

NOTAMS:

EDW – LAKEBED RUNWAY 15/33 ELS ONLY. OTHER LAKEBED RWYS RED.
NOR – LAKEBED RUNWAYS GREEN.
NTU – NGU TACAN CH CHANGED TO 86Y.
YJT – TACAN CH 78 DME ONLY.
HAW – RWY 31 CLOSED. RWY 13 TODA 8,994'.
WAK – CLOSED. NOT USABLE.
IKF – NOT USABLE. NO AGREEMENT.
BEN – NOT RECOMMENDED/NOT SUPPORTED.
ZZA – FIRST 600M (~2,000') OF RWY 30L NOT AVAILABLE. 10,200' REMAINING.
AMB – AMB TACAN CH 94 OTS
HNL – HNL TACAN CH 95 OTS

NEXT 2 PLS OPPORTUNITIES:

KSC15	ORB	62 – 3/21:22	FEW030 SCT250	130/12P18
EDW22	ORB	79 – 4/23:15	SKC	270/07P11

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 = 30.1	R OMS	OX = 30.2
	FU = 29.8		FU = 30.2

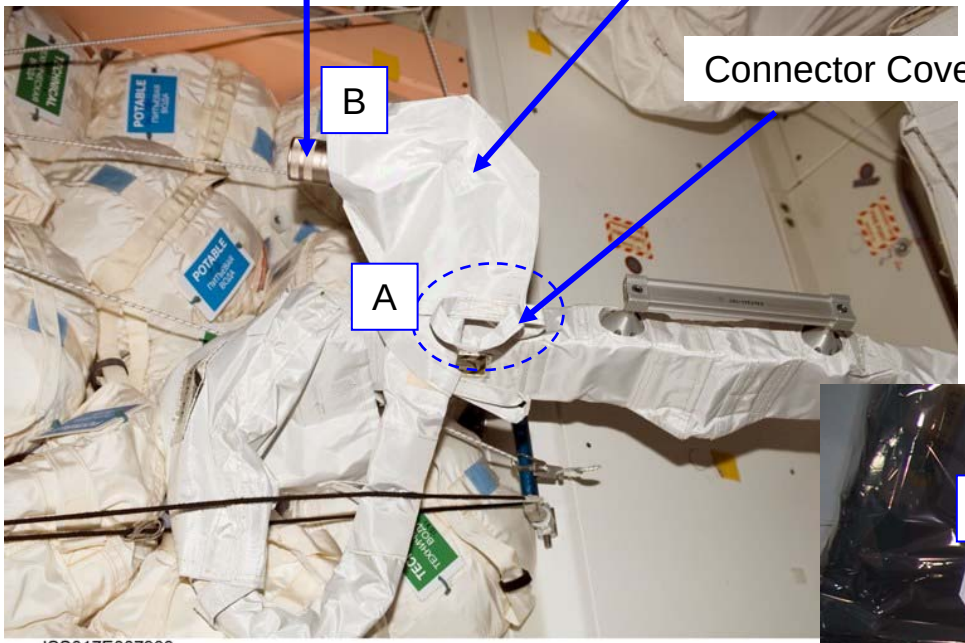
SUBTRACT INTERCONNECT COUNTER TO OBTAIN CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

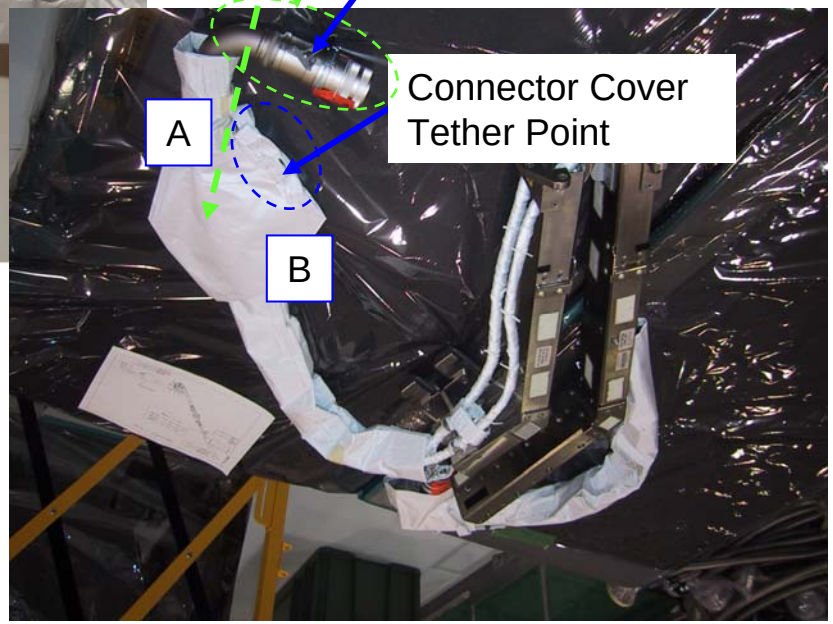
OMS	315 FPS
ARCS (TOTAL ABOVE QTY1)	38 FPS
TOTAL IN THE AFT	353 FPS
ARCS (TOTAL ABOVE QTY2)	71 FPS
FRCS (ABOVE QTY 1)	28 FPS
AFT QTY 1	81 %
AFT QTY 2	43 %

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

JTVE Boom Port/Fwd



Current Configuration



Correct Configuration

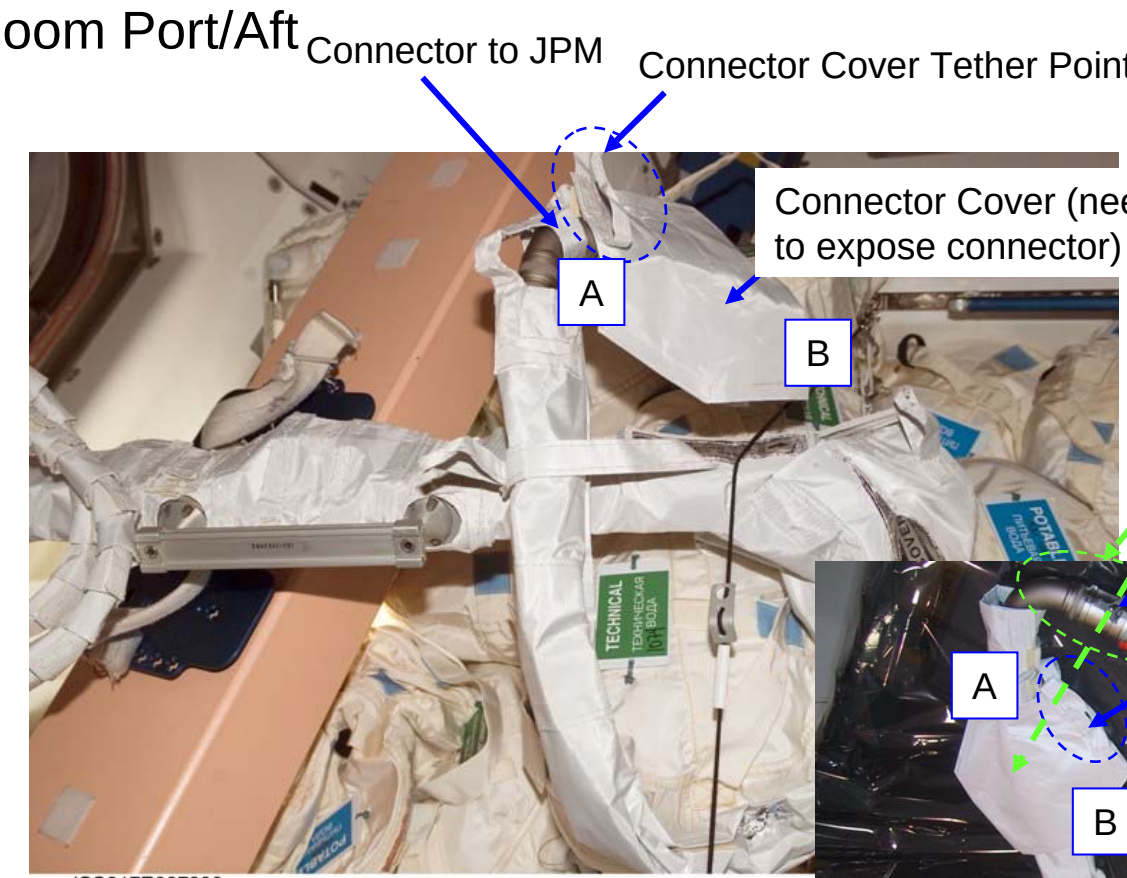
1. Changing Connector Cover Direction

The Connector Covers are installed incorrectly. Side A (w/Tether Point) should be on the Connector side.
The Connector should be exposed for easy connecting.
Refer to Correct Configuration picture.

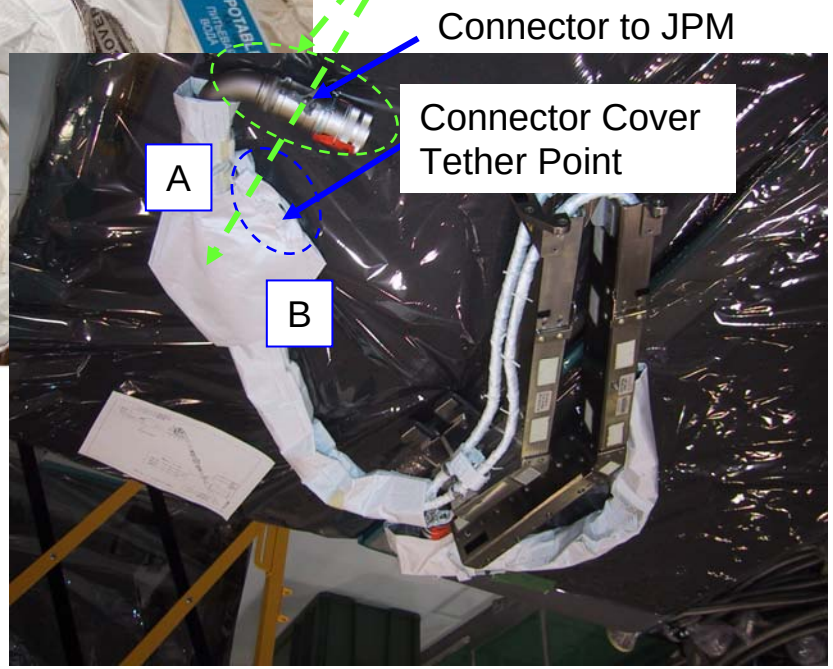
2. Verifying Connector Cover secured to Boom MLI

Verify Connector Cover is secured to Boom by Velcro around tether point so that connector cover will not move.

JTVE Boom Port/Aft



Current Configuration



Correct Configuration

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The Connector should be exposed for easy connecting.
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Communications Utilization during STS-124/1J

FD	ACTIVITY	COMM PATH			CONTROL CENTER		NOTES
		Big Loop	S/G 2	A/G 2	MCC -H	SSIP C	
5	JPM Vestibule Outfitting 1		X		X		
	CDRA R&R		X		X		
	Airlock Check Valve install		X		X		
	JPM Ch B Initial Activation		X		X	X	- MCC-H responsible for power down/power up - SSIPC responsible for JPM
	Node 2 Port IMV install		X		X		
	JPM Vestibule Outfitting 2		X		X		
	JPM Hatch open/ingress	X			X	X	MCC-H responsible for crew safety SSIPC responsible for JPM
	JPM PCS Setup	X			X		Crew will use BPSMU (A/G1)
	JPM setup/outfitting tasks	X				X	Crew will use BPSMU (A/G1)
	JEMRMS rack transfer	X				X	Crew will use BPSMU (A/G1)
	A/L Campout		X		X		S/G 2 since presleep

Mike and Ron,
Great job on EVA 1 yesterday! Here are some items for today:

1. Comm Cap's
Due to the issues with the comm caps used for EVA 1, there are a couple items to perform during the 1.305 Equipment Lock Prep procedure.

A. For Mike's prime comm cap, s/n 1172, we'd like to verify the CCA connector locks to the EMU cable. To do this perform a tug test at the connection.
   1. If it passes, you are go to use as is for EVA 2.
   2. If it fails, swap the CCA pigtail with a spare in the returning EMU Servicing Kit, and perform a tug test at the connection. The pigtail is labelled CCEM interface cable.
   3. Call MCC with the results.

B. For Ron, we'd like to swap to his b/u comm cap for EVA 2. It is s/n 1177, and is located in NOD1P2 inside of Kononenko's ECOK.

2. Deltas to EVA2 and Getaheads

A. Make the following pen and ink changes to the EVA Checklist procedures:
   - ❑ FS 7-58 – delete EVA wipe from Crewlock bag inside Large ORU bag
   - ❑ FS 7-151 – delete steps 8 and 9 (references to EVA wipe)

Rationale: ISS program direction to NOT wipe bearing surfaces on port SARJ

B. JLP ACBM MLI Procedure
   - ❑ The inner MLI cover on the zenith JPM ACBM may interfere with the travel of the capture latches. We are developing an EVA workaround to fold back the MLI on EVA 2. Details are in a separate briefing package message.
   - ❑ On FS7-74, after EV1 step 7, EV2 step 9, the JPM ACBM MLI procedure will be performed.
   - ❑ Remaining time during the JEM outfitting task will be spent completing the Zenith ACBM tasks and installing the trunnion and keel covers.
   - ❑ Cleanup for the JEM Outfitting Tasks needs to start by Bingo Time PET 3:15
   - ❑ Extra time has been added for MS2/MS3/PLT to review these procedures and work tool config additions today.

3. New IVA Cleanup procedures from EVA1
Perform the following steps during the EVA Tool Config on FD5:

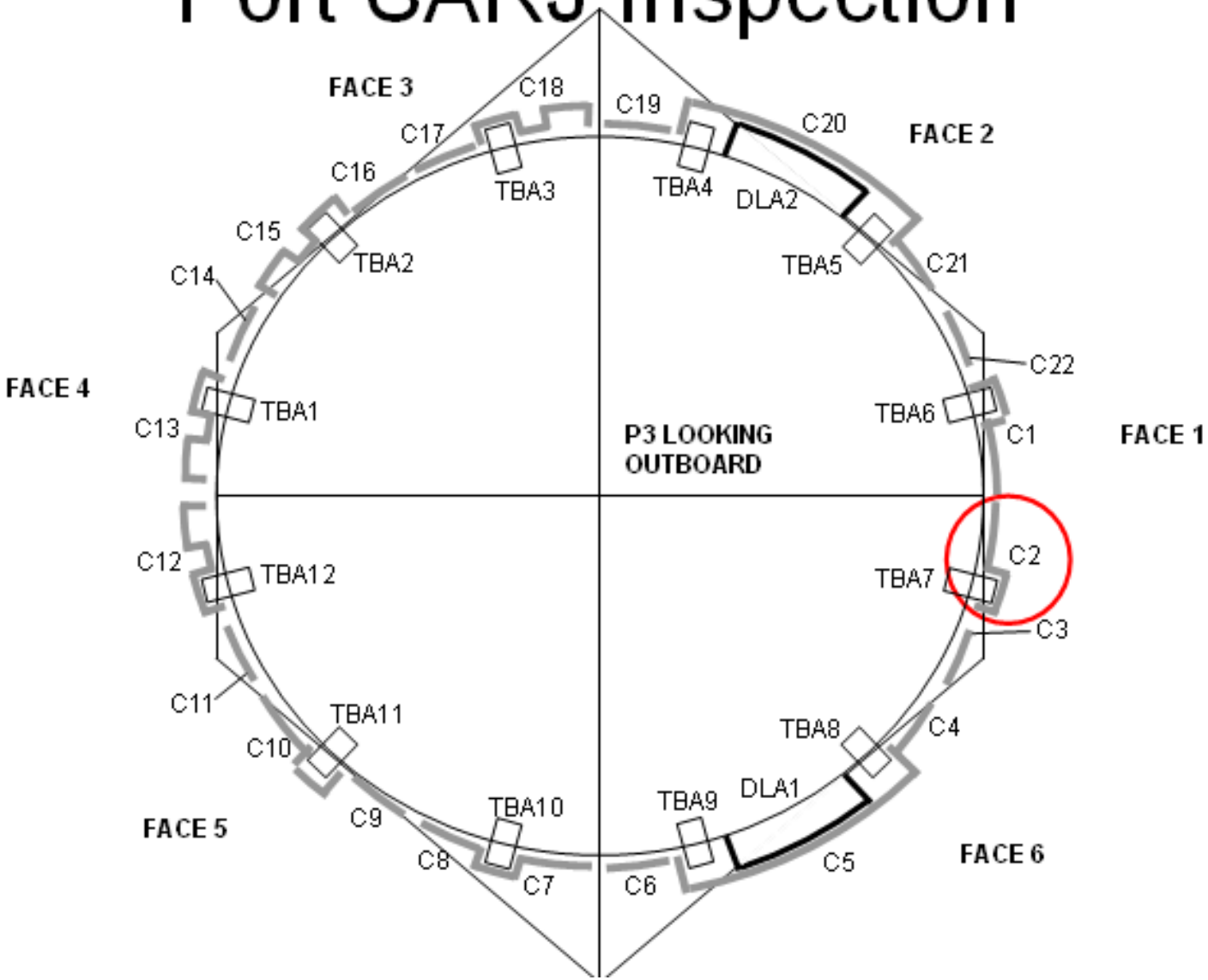
A. Retrieve 2 – 24" x 24" Ziplocs from Ziploc Pantry NOD1O4_C1
B. Label one Ziploc "S3 SARJ Cleaning DTO Grease Gun" and the other "S3 SARJ Used EVA Wipes"
C. Stow EVA Grease gun in labeled Ziploc
D. Stow Ziploc with grease gun in EVA Temp stow Mesh bag (Grease Gun stays on Orbit)
E. Stow used EVA wipes from EVA1 in labeled Ziploc
F. Stow Ziploc with EVA wipes in Bag I located in COL1D2 (Returned on STS-124)

4. Note JTVE MLI Reinstall procedures
Ten minutes have been added immediately after Tool Config for MS3 to perform this procedure, but it can be performed during tool config if that is more convenient for you. Reference MSG 027 (17-0314)

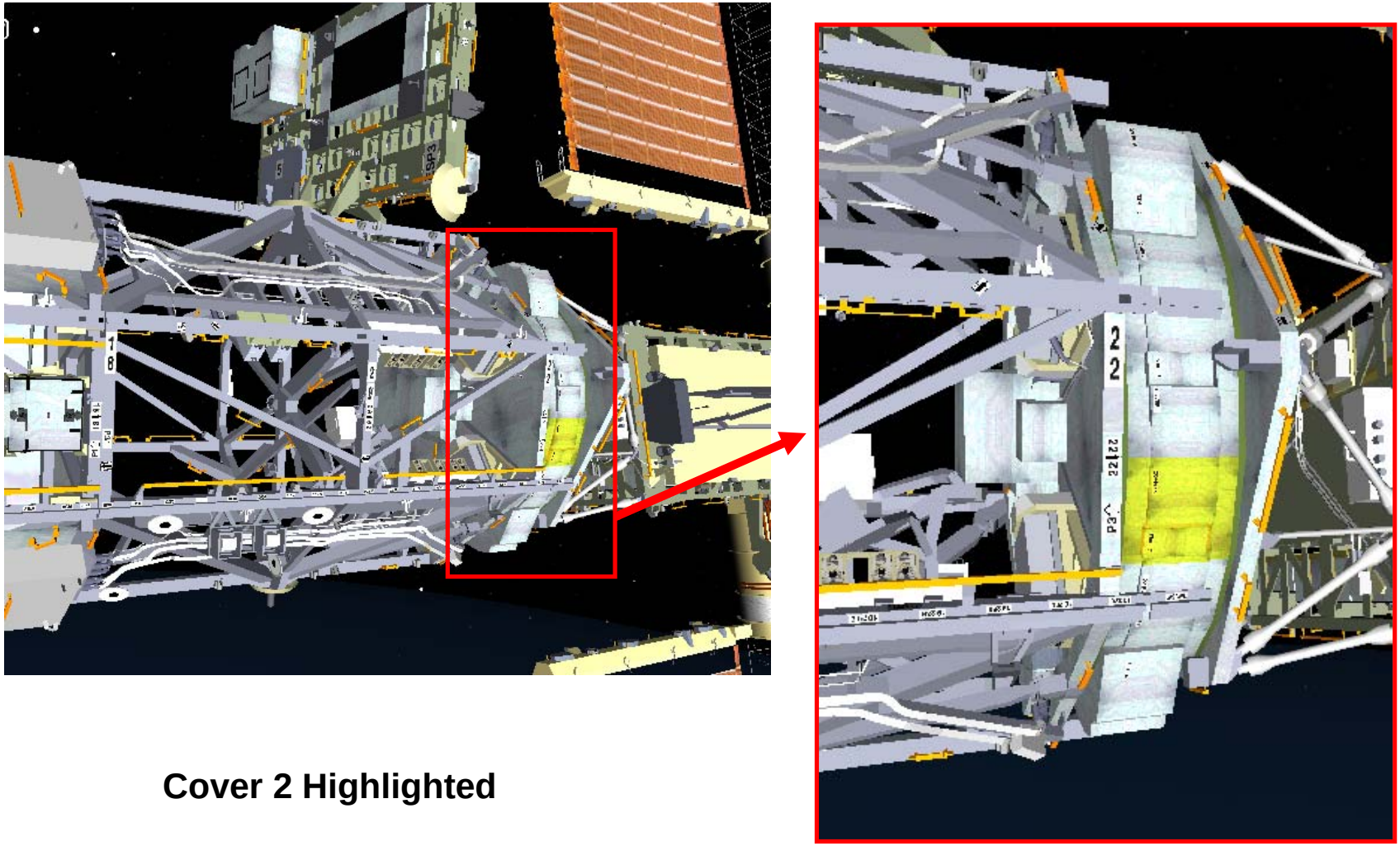
5. Suggested cover to remove for Port SARJ Inspection Getahead
For the port SARJ inspection you are still approved to remove any double cover that you choose. We have received the port SARJ angles for EVAs 2 and 3. Given the SARJ angles, we believe that double cover 2 on face 1 of the port SARJ will provide a good worksite for Mike and also give Ken the best chance of viewing the task. If the port SARJ inspection occurs on EVA 3, we expect that the JLP will obstruct Ken's view of the worksite regardless of which cover you remove. See following charts.

6. Rationale for lower than expected O2 Pressure during 10.2 CAMPOUT EVA PREP
Yesterday, as expected, you got ahead on procedure 1.216 (10.2 PSIA CAMPOUT EVA PREP). You reported that the O2 pressure was below range in step 2.1. The reason you saw a lower than expected pressure was related to two separate but compounding conditions. The first was pre-breathing on masks using the shuttle O2 system tied into the airlock. The second is that the O2 pressure supplied from shuttle is cyclical based on the heaters cycling on and off. When you read down the first 725 PSI, we were at the lower end of the O2 pressure cycle while creating a demand breathing on the same O2 system. Depending on where we are in the same O2 cycle during prep for EVA 2 and 3, you might experience the same case again. Nominally, the pressure check follows completion of mask prebreathe so that it's not an issue.

Port SARJ Inspection

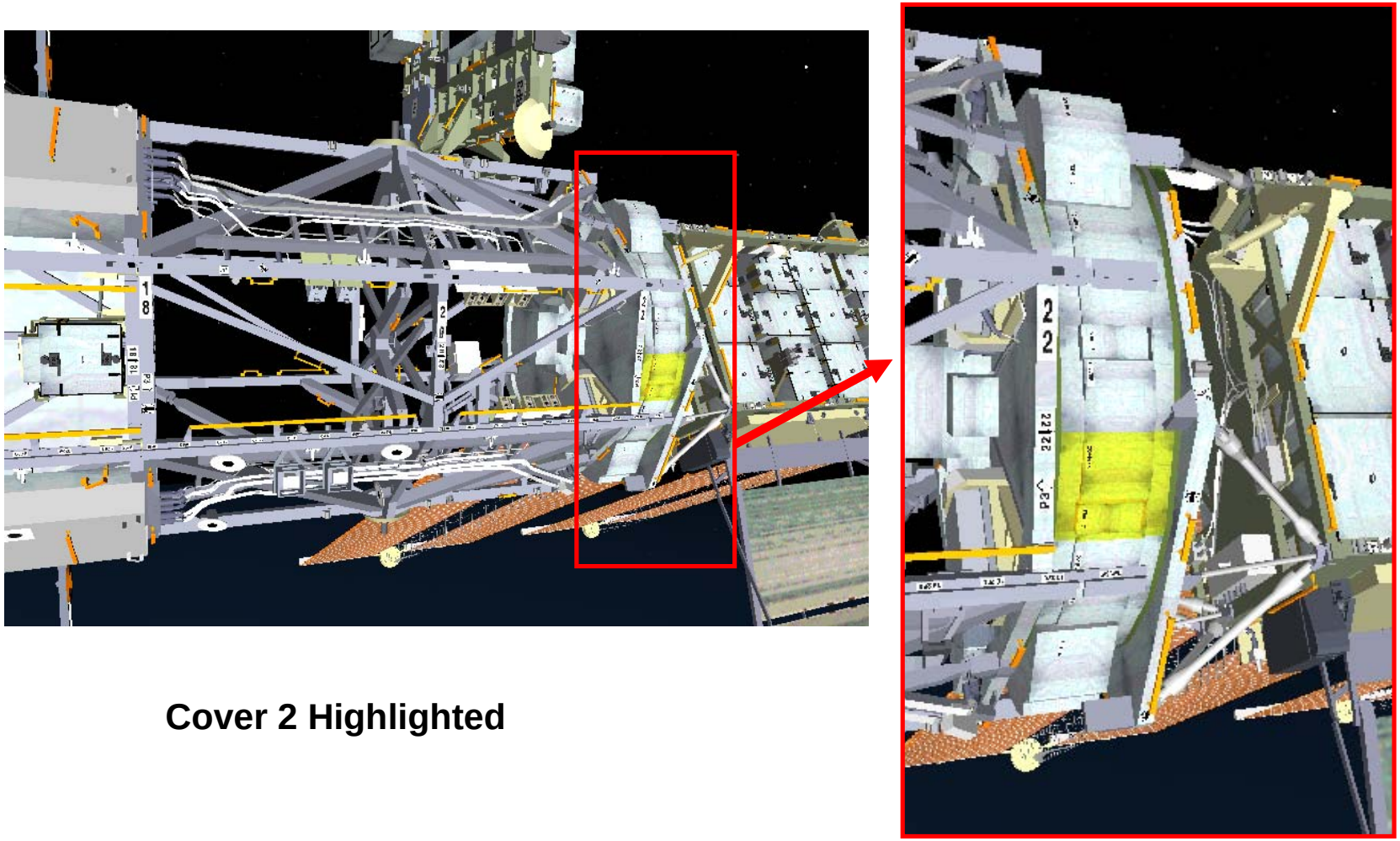


EVA 2 - Port SARJ at 255



Cover 2 Highlighted

EVA 3 - Port SARJ at 330



Cover 2 Highlighted

MSG INDEX

MSG NO.	TITLE
024	FD05 Flight Plan Revision
025	FD05 Mission Summarry
026	FD05 Transfer Message
027	JTVE Boom Connector Cover Re-installation Instruction
028	Stowage Locations for FD05 Plan (GMT 156/157)
029	FD05 Comm Utilization Matrix
031	FD05 EVA Deltas

1. Cryo Config
   For today's cryo config, the active tanks will be O2 Tanks 1 and 2, and H2 Tanks 1 and 4.

   R1 O2, H2 MANF VLV TK 1 (two) - OP (tb-OP)
   O2 TK2 HTRS A, B (two) - AUTO

   A15 CRYO TK5 HTRS O2 A, B (two) – OFF

2. Cryo System Reconfig
   Due to the potential for destratification in cryo tanks during vehicle maneuvers, EGIL has inserted steps into today's timeline prior to the maneuver to the Waste Dump attitude to preemptively activate cryo heaters. Once the maneuvers are completed, EGIL will provide additional steps real-time to reconfigure the cryo system. Similar reconfiguration steps may be necessary for future maneuvers.

3. Waste Water Dump Details
   At MET 3/22:25 perform a Waste Water Dump using SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) p. 5-2. MCC will TMBU FDA in steps B and K.

   Prior to opening the dump valve verify with MCC-H that ISS arrays are in proper config.

   Waste dump valve open time will be ~25 minutes. The tank will be dumped to 5%.

4. JPM Ingress Procedure Note
   Karen and Aki, just a reminder that there is no need to open or close the NOPA during your N2 Purge activities today.

5. Contingency Channel A Timeline
   We will be uplinking a message with the Contingency Channel A Activation summary timeline as reference only. Should the situation warrant use of this timeline information, you should utilize it in combination with ASSY OPS: 8.004 JPM CONTINGENCY CHANNEL A INITIAL ACTIVATION FLOWCHART.

6. REPLACE PAGES 2-14, 2-16 and 3-44 THROUGH 3-53.

NO EXERCISE
[DURING LCS SENSOR C/O]

06/04/08 02:39:57

REPLANNED

GMT 06/04/08 (156) — 12 10 13 11 14 12 15 13 16 14 17 15 18 16 19 17 20 18 21 19 22 20 23 21 004/00

MET Day 003

STS-124	**FD05** CDR KELLY	SLEEP	POST SLEEP					XFER ILLUM	UPDAT OFF	OBSS SENSOR C/O		A/L CHECK VLV INSTL		MDDK XFER		N2 XFER INIT		MEAL	MDDK XFER				HATCH	EXER
STS-124	PLT HAM	SLEEP	POST SLEEP							OBSS SENSOR C/O		A/L CHECK VLV INSTL	CWC	INIT 2	EXERCISE		CWC	TERM	MEAL	CWC	XFER	CRYO	ACTIVATE @*	MNVR	WASTE	TERM	MNVR
STS-124	MS1 NYBERG	SLEEP	LOG	POST SLEEP							VEST OUTFIT 1					MEAL			VEST OUTFIT 2				EXERCISE		JPM	INGRS
STS-124	MS2 GARAN	SLEEP	ALOGRN	POST SLEEP						E_LK PREP		EVA TOOL CONFG			EXERCISE			MEAL		VEST OUTFIT 2					HATCH
STS-124	MS3 FOSSUM	SLEEP	SLVA	ADSRYN	APSRTN	SOSEP	DRY	POST SLEEP		E_LK PREP		EVA TOOL CONFG	JTVE*	BSA-T	BSA-I	DRY	NODE2-PORT IMV-INSTL			EXERCISE		MEAL	MBATT/^	REDBRAY#	HATCH
STS-124	MS4 HOSHIDE	SLEEP	SLVA	POST SLEEP							VEST OUTFIT 1					JPM CH B INIT ACT		EXERCISE		MEAL			VEST OUTFIT 2		JPM	INGRS
DN	FE-2 REISMAN	SLEEP (8.5)	PS			PW	DPC	FNLK CK TRM	AR-CDRA BED 202-R&R			HANDOVER			DCS T/A	JPM CH B INIT ACT		MEAL		HANDOVER			CEVIS		RED
EXP 17	ISS CDR VOLKOV	SLEEP (8.5)	PS			PW	DPC	СВО-Э		МБИ	SE-WINDOW-MON-CDR-1				CEVIS		MEAL		DOUG RVW	AKPRP			TVIS		HATCH	♣
EXP 17	FE-1 KONONENKO	SLEEP (8.5)	PS			PW	DPC	ИП 1 МНТ	VTAPE	МБИ	СГО-АСУ-МНР-НС-REPCL			VELO + RED		NODE2-PORT IMV-INSTL			MEAL		РБО ACT		SODF DPLY	TVIS	
UP	FE-2 CHAMITOFF	SLEEP (8.5)	PS			PW	DPC	ADAPT	AR-CDRA BED 202-R&R			HANDOVER		ADAPT	MEAL		N2 XFER INIT		DOUG RVW	HANDOVER			CEVIS	H/O	ADAPT	

STS — ORBIT: 56 57 58 59 60 61 62 63 64

STS — DAY/NIGHT

STS — TDRS W -171 / E -46 / Z 275

STS — ORB ATT: BIAS -XLV -ZVV — BIAS -XLV +YVV

NOTES

*MLI RE-INSTALL

CH B ACT

*CMG TO STS #INSTL ♣AK1 AIR
@I'CNCT L OMS TO RCS
^INSTL

06/04/08 02:39:57 **REPLANNED**

GMT 06/04/08 (156) 004/00 | 22 01 | 23 02 | 06/05 03 | 01 04 | 02 05 | 03 06 | 04 07 | 05 08 | 06 09 | 07 10 | 08 11 | 09 12

MET Day 004

STS-124	**FD05** CDR KELLY	EXER; XFER GUP; XFER FER; BRIEF; PRLA*; EVA 2 PROC REVIEW; PRE SLEEP; PMC A/G; PRE SLEEP; MASK PB/TOOL CONFG; PRE SLEEP	SLEEP
STS-124	PLT HAM	ATHO*; EVA2 PROC RVW; XFER; WCS^; PRMU; PRLA*; EVA 2 PROC REVIEW; ILON; PRE SLEEP	SLEEP
STS-124	MS1 NYBERG	JPM INGRS; FSE; ACCUM; DSCNT; FSE ACM RMV; JPM SETUP; JEMRMS RACK XFER; PRE SLEEP	SLEEP; **ISS EXTERNAL SURVEY**
STS-124	MS2 GARAN	EVA 2 PROC RVW; JPM PCS INSTALL; PS; EVA 2 PROC REVIEW; PRE SLEEP; MASK PB/TOOL CONFG; 10.2 DPRS; PRE SLEEP	SLEEP; ISS A/L Campout @ 10.2 psi
STS-124	MS3 FOSSUM	EVA 2 PROC RVW; ELPS ENA; PS; EVA 2 PROC REVIEW; PRE SLEEP; DRY; MASK PB/TOOL CONFG; PRE SLEEP	SLEEP
STS-124	MS4 HOSHIDE	JPM INGRS; DRAG*; JEM CTB REL; FAN-1; JPM SETUP; JEMRMS RACK XFER; FAN-0; PRE SLEEP	SLEEP
DN	FE-2 REISMAN	RED; JEM CTB REL; PREP PEPS; ACCUM VLV OPEN; PW; PS; DPC; PS	SLEEP (8.5)
EXP 17	ISS CDR VOLKOV	♣; IMS; KПT 2; PW; EVA 2 PROC REVIEW; PW; PS; DPC; PS	SLEEP (8.5)
EXP 17	FE-1 KONONENKO	TVIS; EXER; COX-MNT; CVIU; PW; PS; DPC; PS	SLEEP (8.5)
UP	FE-2 CHAMITOFF	ADAPT; PW; WRM CWC INIT; EVA 2 PROC REVIEW; PMC; CWC; TERM; BATMT; DPC; PS	SLEEP (8.5)

STS

ORBIT: 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72

DAY/NIGHT

TDRS W -171, E -46, Z 275

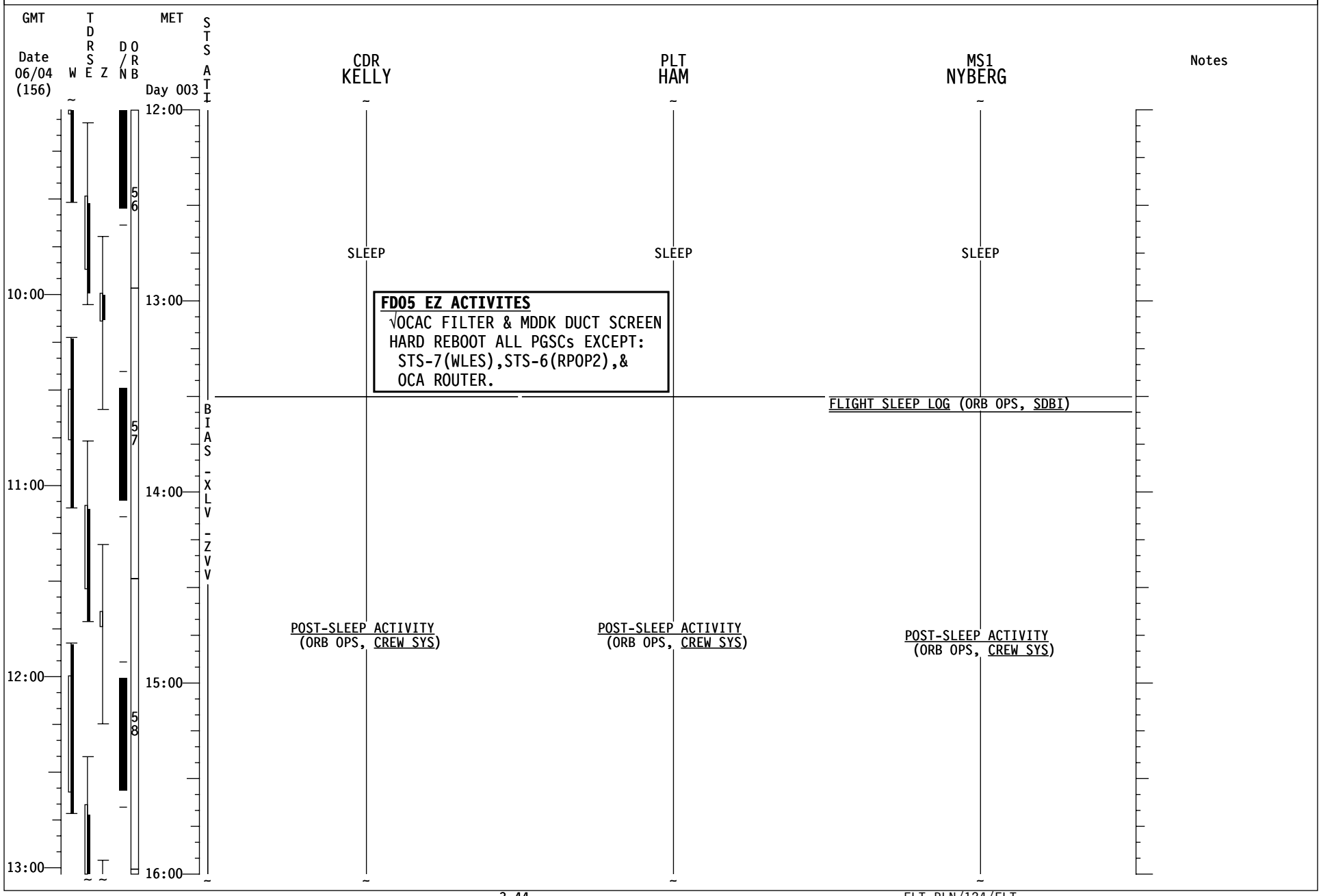
ORB ATT: BIAS -XLV -ZVV

NOTES

♣AK1 AIR *CLOSE
^FILTER CK
*STS TO CMG
*JEM DRAG-THRU DEPLOY

MT SURVEY MT TRANSLATION WS4 TO WS6

STS-124 FD05


GMT
Date 06/04 (156)
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T D R S E
Z
D / N
O R B
MET
Day 003
S T S A T I
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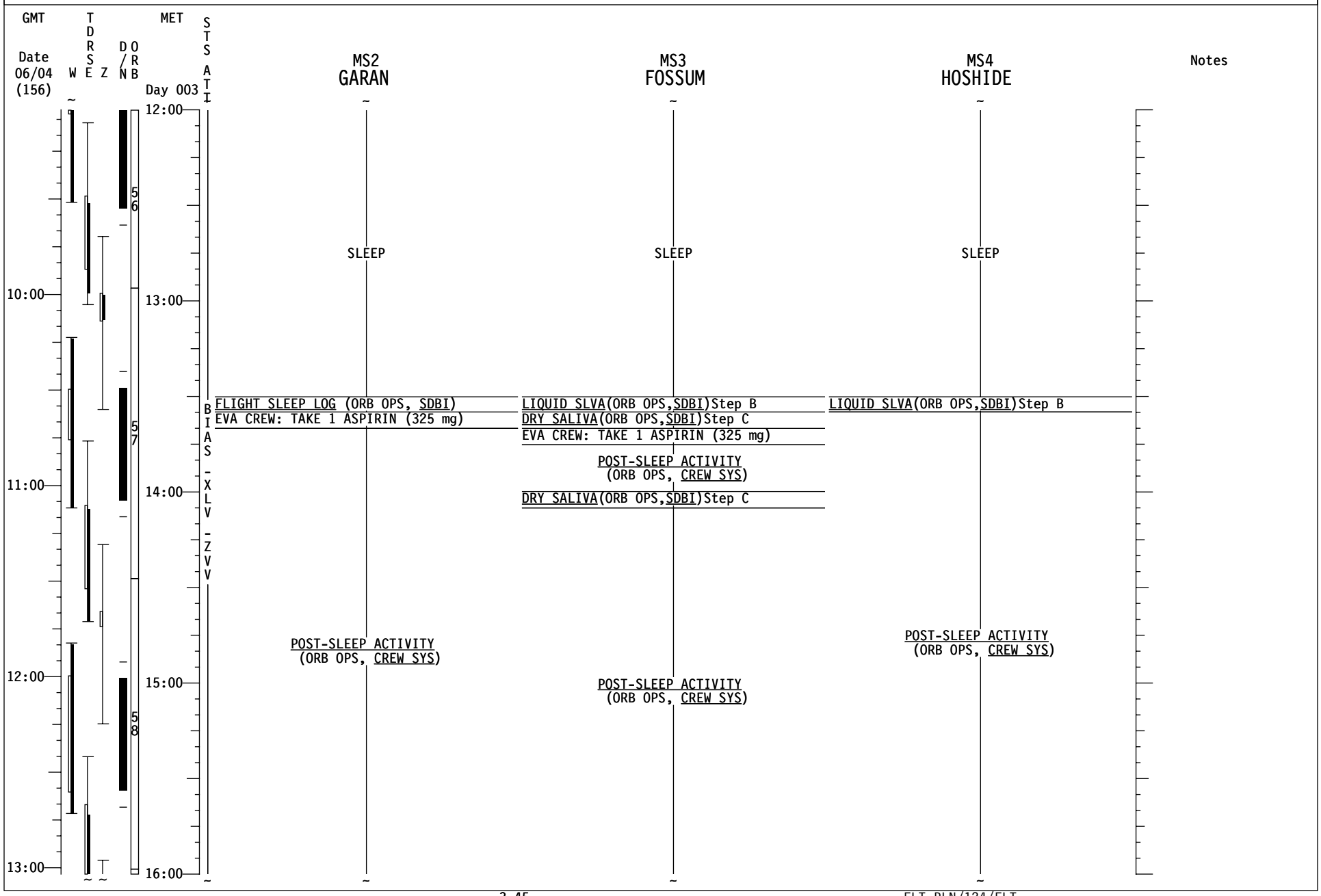
12:00
13:00
12:00
13:00
14:00
15:00
16:00
56
57
58
B I A S - X L V - Z V V
CDR KELLY
PLT HAM
MS1 NYBERG
Notes
SLEEP
SLEEP
SLEEP
FD05 EZ ACTIVITES
√OCAC FILTER & MDDK DUCT SCREEN
HARD REBOOT ALL PGSCs EXCEPT:
STS-7(WLES),STS-6(RPOP2),&
OCA ROUTER.
FLIGHT SLEEP LOG (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-124 FD05


GMT
Date 06/04 (156)
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T D R S E
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D / N
O R B
MET
Day 003
S T S A T I
10:00
11:00
12:00
13:00
12:00
13:00
14:00
15:00
16:00
56
57
58
B I A S - X L V - Z V V
MS2 GARAN
SLEEP
FLIGHT SLEEP LOG (ORB OPS, SDBI)
EVA CREW: TAKE 1 ASPIRIN (325 mg)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
MS3 FOSSUM
SLEEP
LIQUID SLVA(ORB OPS,SDBI)Step B
DRY SALIVA(ORB OPS,SDBI)Step C
EVA CREW: TAKE 1 ASPIRIN (325 mg)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
DRY SALIVA(ORB OPS,SDBI)Step C
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
MS4 HOSHIDE
SLEEP
LIQUID SLVA(ORB OPS,SDBI)Step B
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
Notes

STS-124 FD05

GMT Date 06/04 (156) | W | TDRS E | Z | D/N | ORB | MET Day 003 | STS ATI

CDR KELLY

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- TRANSFER UPDATE — Ref. Transfer List & MSG 026
- OBSS SENSOR C/O (PDRS, VIEWING SUPPORT)
- ASSY OPS: 1.200 NODE 1 CHECK VLV INSTL FOR A/L CCAA SAFING — A/L CCAA Deact is not req'd in Step 1.1; Ref. Transfer List: Item 25; Ref. MSG 028
- MIDDECK TRANSFER — Ref. Transfer List: Item 704.7 and 401.3

PLT HAM

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- TV (ILLUMINATOR OPS) (PHOTO/TV, CC) — ILLUMINATORS OFF - ALL
- OBSS SENSOR C/O (PDRS, VIEWING SUPPORT)
- ASSY OPS: 1.200 NODE 1 CHECK VLV INSTL FOR A/L CCAA SAFING — A/L CCAA Deact is not req'd in Step 1.1; Ref. Transfer List: Item 25; Ref. MSG 028
- SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) INIT #2 — Ref. MSG 020
- EXERCISE

MS1 NYBERG

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- ASSY OPS: 2.002 VEST OUTFIT NOD2 PORT TO JPM - PART 1 — Skip Step 7.1 (performed by MCC-H); Ref. Transfer List: Item 7.1; Ref. MSG 028

Notes

- NO EXERCISE DURING LCS SENSOR C/O

STS-124 FD05

GMT Date 06/04 (156) | W | TDRS E | Z | D/N | ORB 59 60 61 | MET Day 003 | STS ATI BIAS-XLV-ZVV

MET	MS2 GARAN	MS3 FOSSUM	MS4 HOSHIDE	Notes
16:00	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			ASSY OPS: 2.002 VEST OUTFIT NOD2 PORT TO JPM - PART 1 Skip Step 7.1 (performed by MCC-H) Ref. Transfer List: Item 7.1 Ref. MSG 028	
	EVA SYS: 1.305 EQUIP LOCK PREP Ref. MSG 031 Ref: STS-124/1J EMU CONSUMABLES TRACKING CC	EVA SYS: 1.305 EQUIP LOCK PREP Ref. MSG 031 Ref: STS-124/1J EMU CONSUMABLES TRACKING CC		
14:00				
17:00				
	PRE EVA 2 TOOL CONFIG (EVA, TIMELINES) Ref. MSG 031	PRE EVA 2 TOOL CONFIG (EVA, TIMELINES) Ref. MSG 031		NO EXERCISE DURING LCS SENSOR C/O
15:00				
18:00				
16:00		JTVE BOOM CONNECTOR COVER RE-INSTALL Ref. MSG 027		
19:00		EVA SYS: 1.605 BSA BATT RECHRG - TERM Ref:STS-124/1J EMU CONSUMABLES TRACKING CC		
		EVA SYS: 1.605 BSA BATT RECHRG - INIT Ref:STS-124/1J EMU CONSUMABLES TRACKING CC		
	EXERCISE	DRY SALIVA(ORB OPS,SDBI)Step C		
		ASSY OPS: 3.001 NODE2 PORT AFT NPRV RMV/RPLC W/IMV VLV Ref. MSG 028	ASSY OPS: 6.003 JPM CHANNEL B INITIAL ACTIVATION - PCS	
17:00				
20:00				

STS-124 FD05

GMT Date 06/04 (156) | W E Z | D/N | ORB 61 62 63 64 | MET Day 003 | STS ATI

CDR KELLY

20:00 — JOINT OPS: 3.102 N2 TRANSFER INIT
Steps 3-5, Steps 4.7 & 4.8 not req'd.
Ref. MSG 028

BIAS -XLV -ZVV

21:00 — MEAL

MIDDECK TRANSFER
Ref. Transfer List: Item 702.1

22:00

BIAS -XLV +YVV

23:00

ASSY OPS: 4.003 JPM INGRESS
Step 1, Ref. MSG 028

00:00 — EXERCISE

PLT HAM

EXERCISE

SHUTTLE/ISS H2O CONT FILL
(ORB OPS, ECLS) TERM
Report B/C and S/N to MCC

MEAL

CWC TRANSFER Transfer 1 CWC to ISS

CRYO RECONFIG [A]
Ref. MSG 024, Item 2
I'CNCT: L OMS TO RCS (OPCL, RCS)
√MCC for proper DAP config for ATT H/O
When ISS is Free Drift,DAP:LVLH,
when rates < 0.1,DAP:AUTO
MNVR (TRK) BIAS -XLV +YVV(WASTE DUMP)
TG=2 BV=5 P=166 Y=353 OM=195
A12/AUTO/VERN Init TRK
SUPPLY/WASTE WATER DUMP(ORB OPS, ECLS)
Init Waste Dump, Ref. MSG 024, Item 3
FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)
Inspect filters and clean
as necessary

[A] R1 O2 TK3 HTRS A,B (two) - AUTO
A11 CRYO TK4 HTRS O2 A,B (two) - AUTO
A15 CRYO TK5 HTRS O2 A,B (two) - AUTO

SUPPLY/WASTE WATER DUMP
(ORB OPS, ECLS) Term Waste Dump

MNVR BIAS -XLV -ZVV
TG=2 BV=5 P=166 Y=354 OM=188
A12/AUTO/VERN Init TRK

MS1 NYBERG

MEAL

ASSY OPS: 2.003 VEST OUTFIT NOD2 PORT TO JPM - PART 2
Ref. MSG 028

EXERCISE

ASSY OPS: 4.003 JPM INGRESS Steps 1-5
Ref. MSG 028 & MSG 024, Item 4
Masks & goggles stowed in clothing locker.

Notes

UPDATE H2O WASTE DUMP QTY

STS-124 FD05

GMT Date 06/04 (156) | W | T D R S E | Z | D / N | O R B | MET Day 003 | STS ATI

MS2 GARAN

20:00 — MEAL

21:00 — ASSY OPS: 2.003 VEST OUTFIT NOD2 PORT TO JPM - PART 2
Ref. MSG 028

23:00 — ASSY OPS: 4.003 JPM INGRESS
Step 1, Ref. MSG 028

MS3 FOSSUM

ASSY OPS: 3.001 NODE2 PORT AFT NPRV RMV/RPLC W/IMV VLV
Ref. MSG 028

EXERCISE

MEAL

EVA SYS: 1.515 EMU METOX/LIOH/BATT RPLC
Ref: STS-124/1J EMU COMSUMABLES TRACKING CC

EVA SYS: 1.307 REBA INSTL/RMVL-INSTALL
Ref: STS-124/1J EMU CONSUMABLES TRACKING CC

DRY SALIVA(ORB OPS,SDBI)Step C

ASSY OPS: 4.003 JPM INGRESS
Step 1, Ref. MSG 028

MS4 HOSHIDE

ASSY OPS: 6.003 JPM CHANNEL B INITIAL ACTIVATION - PCS

EXERCISE

MEAL

ASSY OPS: 2.003 VEST OUTFIT NOD2 PORT TO JPM - PART 2
Ref. MSG 028

ASSY OPS: 4.003 JPM INGRESS Steps 1-5
Ref. MSG 028 & MSG 024, Item 4
Masks & goggles stowed in clothing locker.

Notes

STS-124 FD05

GMT Date 06/04 (156) | W E Z | D/N | ORB | MET Day 004 | STS ATI

64 65 66

BIAS-XLV-ZVV

CDR KELLY

EXERCISE

DAILY STS/ISS CREW TRANSFER TAGUP

TRANSFER BRIEF
Call down status to MCC

PRLA CLOSE (ORB OPS, PRLA)

EVA PROCEDURE REVIEW
Ref. MSG 031

Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRIVATE MEDICAL CONFERENCE
Perform Via A/G 2

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA SYS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE See Page 3-52

PLT HAM

When ISS is GO for attitude control,DAP:FREE

EVA PROCEDURE REVIEW
Ref. MSG 031
Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

MIDDECK TRANSFER
Ref. Transfer List

WCS FILTER CHECK B

B WCS CRADLE - AUTO INHIBIT
Inspect hose block filter.
Change out if req'd.
WCS CRADLE - AUTO

IMU STAR OF OPTY ALIGN (ORB OPS, GNC)

PRLA CLOSE (ORB OPS, PRLA)

EVA PROCEDURE REVIEW
Ref. MSG 031

Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

TV (ILLUMINATOR OPS) (PHOTO/TV, CC)
ILLUMINATORS ON - A,D

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS1 NYBERG

ASSY OPS: 4.003 JPM INGRESS Steps 1-5
Ref. MSG 028 & MSG 024, Item 4
Masks & goggles stowed in clothing locker.

ASSY OPS: 4.005 FSE ACCUM DSCNCT
Ref. MSG 028

ASSY OPS: 4.008 FSE ACCUM REMOVAL
Ref. MSG 028

ASSY OPS: 5.005 JEM SETUP BEFORE SYS RACK XFER
Ref. MSG 028

ASSY OPS: 5.008 RACK XFER - JEMRMS,ICS, SAIBO,RYUTAI,JRSR
JEMRMS RACK XFER
Ref. MSG 028

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

Notes

STS-124 FD05

GMT Date 06/04 (156) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI

MS2 GARAN

00:00
EVA PROCEDURE REVIEW
Ref. MSG 031
Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

JPM PCS INSTALL [C]
Ref. MSG 028

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA PROCEDURE REVIEW
Ref. MSG 031
Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

[C] ASSY OPS: 2.303 PCS DEACT (Page 399)
Steps 1-5 to shutdown NOD2 PCS(Shell SN2210), powerdown NOD2 UOP1 J3,detatch cables & power supply from UOP, and xfer NOD2 PCS with supply/cables to JEM.

ASSY OPS: 2.308 PCS SETUP (Page 409)
Perform all steps to Setup PCS(Shell SN2210) and connect to JEM UOP AD5/J3. Recommended location: Port side seat track on Closeout Panel JPM1A7-08. UOP-JPM1AD5 J3. Route cable along JPM1AD standoff not to interfere with JEMRMS rack installation.

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA SYS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE See Page ~ 3-53

MS3 FOSSUM

EVA PROCEDURE REVIEW
Ref. MSG 031
Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

ASSY OPS: 6.006 JPM ELPS C/O & ENABLE

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA PROCEDURE REVIEW
Ref. MSG 031
Ref: EVA 2 BRIEFING CARD (EVA, TIMELINES)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

DRY SALIVA(ORB OPS,SDBI)Step C
EVA SYS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE See Page ~ 3-53

MS4 HOSHIDE

ASSY OPS: 4.003 JPM INGRESS Steps 1-5
Ref. MSG 028 & MSG 024, Item 4
Masks & goggles stowed in clothing locker.

P/TV05 ISS INTRNL OPS(HC)(P/TV,SCENES)
JEM DRAG-THRU CABLE DEPLOY
Ref. MSG 028 & Transfer List: Item 25

ASSY OPS: 4.009 JEM SYSTEM RACK FRONT BRACKET REFERENCE, CC. Ref. MSG 028
Remove Rack Front Bags from EPS2 rack & DMS2 rack and stow them near JEM AL.

When Ingressing JLP, perform:
ASSY OPS: 7.001 JLP VENT FAN ACT(DEACT) -MKAM ACT Step 1
During Ingress,relocate Node2 PBA to JLP
ASSY OPS: 5.005 JEM SETUP BEFORE SYS RACK XFER
Ref. MSG 028

ASSY OPS: 5.008 RACK XFER - JEMRMS,ICS, SAIBO,RYUTAI,JRSR
JEMRMS RACK XFER
Ref. MSG 028

ASSY OPS: 7.001 JLP VENT FAN ACT(DEACT) -MKAM DEACT Step 2
During egress, relocate PBA from JLP to Node 2

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

Notes

STS-124 FD05

GMT Date 06/05 (157) | W | T D R S E | Z | D / N | O R B | MET Day 004 | STS ATI

CDR KELLY | PLT HAM | MS1 NYBERG | Notes

04:00

EVA SYS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE
Steps 1-16

Ref: EVA 2 TOOL CONFIG (EVA, TIMELINES)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

02:00 | 05:00 | 67

BIAS-XLV-ZVV

03:00 | 06:00 | 68

WAKE UP AT 4/13:30

SLEEP | SLEEP | SLEEP

04:00 | 07:00 | 69

05:00 | 08:00

STS-124 FD05

GMT Date 06/05 (157) | W | T D R S E | Z | D / N | O R B | MET Day 004 | STS ATI

MS2 GARAN | MS3 FOSSUM | MS4 HOSHIDE | Notes

04:00 — 05:00 — 06:00 — 07:00 — 08:00

02:00 — 03:00 — 04:00 — 05:00

67 — 68 — 69

BIAS-XLV-ZVV

EVA SYS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE

Ref: EVA 2 TOOL CONFIG (EVA, TIMELINES)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SLEEP

WAKE UP AT 4/13:30

MSG 025 - FD05 MISSION SUMMARY

Good Morning Discovery!!!
Yesterday was absolutely superb performance by all of you!
Hope you are not too disappointed that there is no focused inspection today!!!!
Have a great day!

YOUR CURRENT ORBIT IS: 186 X 181 NM

NOTAMS:

EDW – LAKEBED RUNWAY 15/33 ELS ONLY. OTHER LAKEBED RWYS RED.
NOR – LAKEBED RUNWAYS GREEN.
NTU – NGU TACAN CH CHANGED TO 86Y.
YJT – TACAN CH 78 DME ONLY.
HAW – RWY 31 CLOSED. RWY 13 TODA 8,994'.
WAK – CLOSED. NOT USABLE.
IKF – NOT USABLE. NO AGREEMENT.
BEN – NOT RECOMMENDED/NOT SUPPORTED.
ZZA – FIRST 600M (~2,000') OF RWY 30L NOT AVAILABLE. 10,200' REMAINING.
AMB – AMB TACAN CH 94 OTS
HNL – HNL TACAN CH 95 OTS

NEXT 2 PLS OPPORTUNITIES:

KSC15	ORB	62 – 3/21:22	FEW030 SCT250	130/12P18
EDW22	ORB	79 – 4/23:15	SKC	270/07P11

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 = 30.1	R OMS	OX = 30.2
	FU = 29.8		FU = 30.2

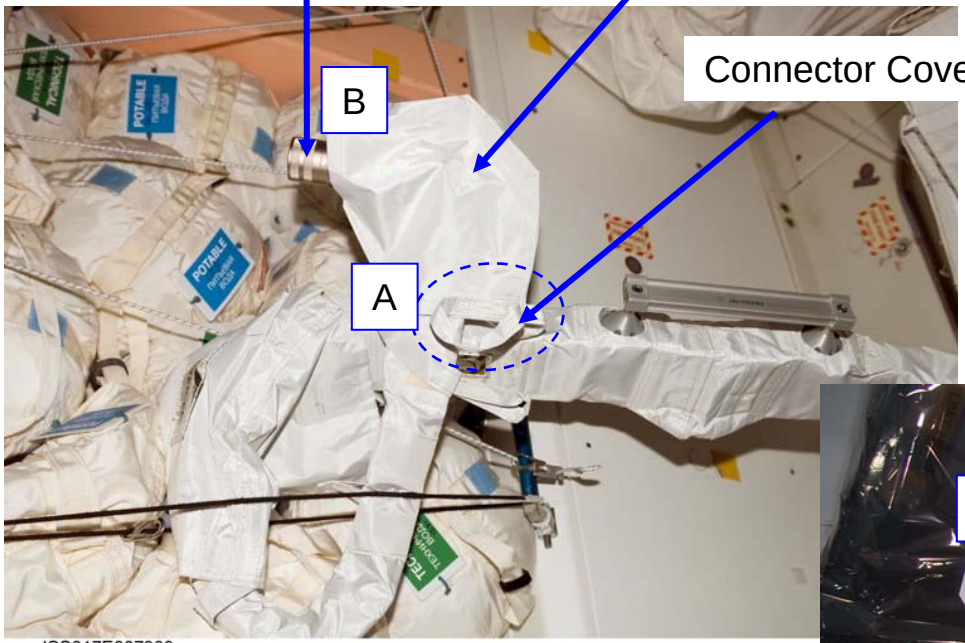
SUBTRACT INTERCONNECT COUNTER TO OBTAIN CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

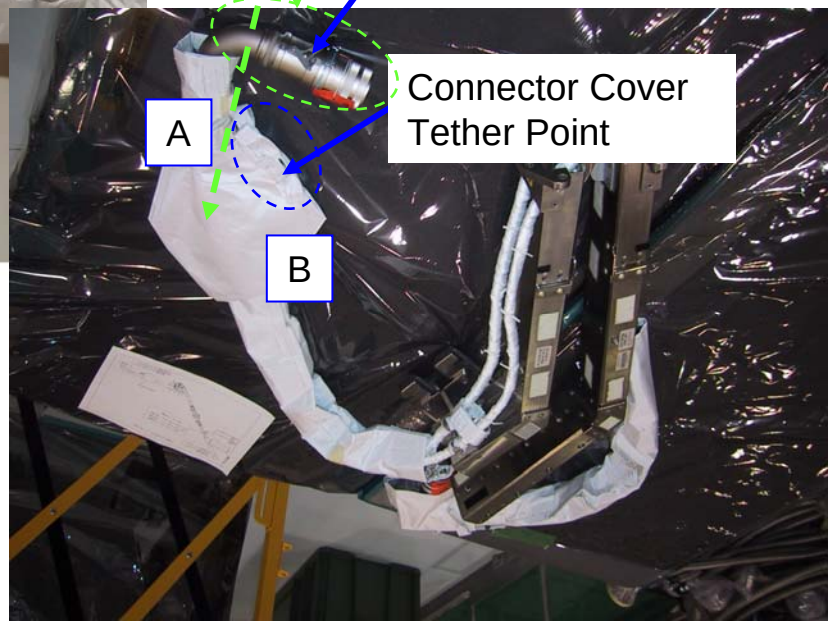
OMS	315 FPS
ARCS (TOTAL ABOVE QTY1)	38 FPS
TOTAL IN THE AFT	353 FPS
ARCS (TOTAL ABOVE QTY2)	71 FPS
FRCS (ABOVE QTY 1)	28 FPS
AFT QTY 1	81 %
AFT QTY 2	43 %

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

JTVE Boom Port/Fwd



Current Configuration



Correct Configuration

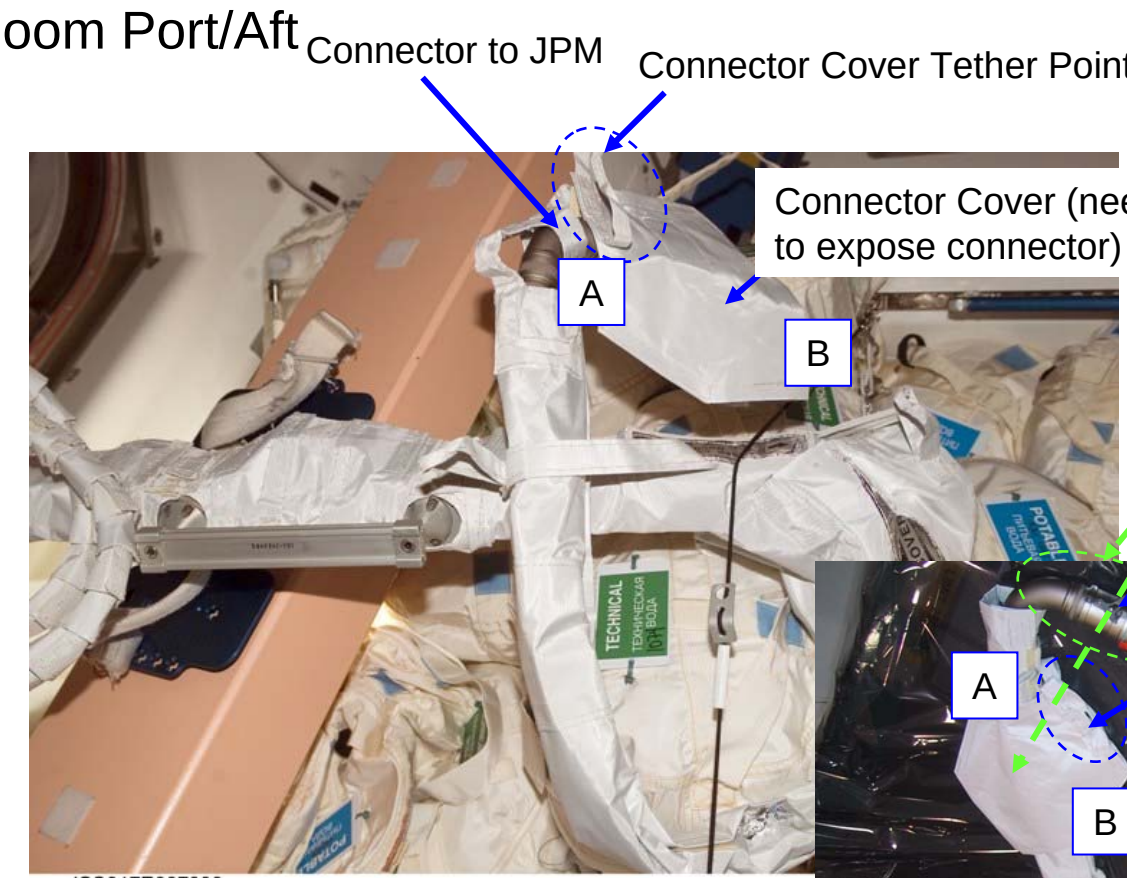
1. Changing Connector Cover Direction

The Connector Covers are installed incorrectly. Side A (w/Tether Point) should be on the Connector side.
The Connector should be exposed for easy connecting.
Refer to Correct Configuration picture.

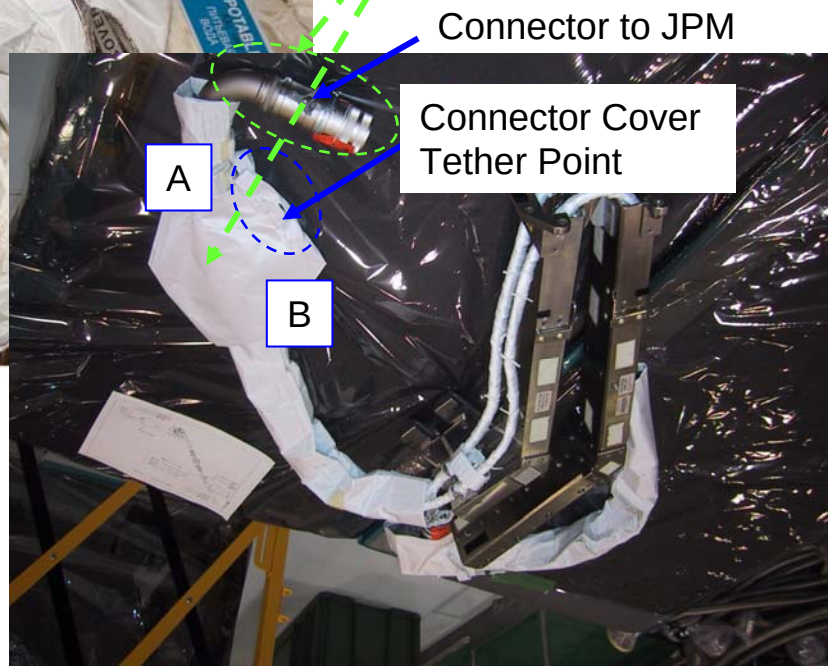
2. Verifying Connector Cover secured to Boom MLI

Verify Connector Cover is secured to Boom by Velcro around tether point so that connector cover will not move.

JTVE Boom Port/Aft



Current Configuration



Correct Configuration

3. Changing Connector Cover Direction

The Connector Covers are installed incorrectly. Side A (w/Tether Point) should be on the Connector side.
The Connector should be exposed for easy connecting.
Refer to Correct Configuration picture.

4. Verifying Connector Cover secured to Boom MLI

Verify Connector Cover is secured to Boom by Velcro around tether point so that connector cover will not move.

Communications Utilization during STS-124/1J

FD	ACTIVITY	COMM PATH			CONTROL CENTER		NOTES
		Big Loop	S/G 2	A/G 2	MCC -H	SSIP C	
5	JPM Vestibule Outfitting 1		X		X		
	CDRA R&R		X		X		
	Airlock Check Valve install		X		X		
	JPM Ch B Initial Activation		X		X	X	- MCC-H responsible for power down/power up - SSIPC responsible for JPM
	Node 2 Port IMV install		X		X		
	JPM Vestibule Outfitting 2		X		X		
	JPM Hatch open/ingress	X			X	X	MCC-H responsible for crew safety SSIPC responsible for JPM
	JPM PCS Setup	X			X		Crew will use BPSMU (A/G1)
	JPM setup/outfitting tasks	X				X	Crew will use BPSMU (A/G1)
	JEMRMS rack transfer	X				X	Crew will use BPSMU (A/G1)
	A/L Campout		X		X		S/G 2 since presleep

Mike and Ron,
Great job on EVA 1 yesterday! Here are some items for today:

1. Comm Cap's
Due to the issues with the comm caps used for EVA 1, there are a couple items to perform during the 1.305 Equipment Lock Prep procedure.

A. For Mike's prime comm cap, s/n 1172, we'd like to verify the CCA connector locks to the EMU cable. To do this perform a tug test at the connection.
   1. If it passes, you are go to use as is for EVA 2.
   2. If it fails, swap the CCA pigtail with a spare in the returning EMU Servicing Kit, and perform a tug test at the connection. The pigtail is labelled CCEM interface cable.
   3. Call MCC with the results.

B. For Ron, we'd like to swap to his b/u comm cap for EVA 2. It is s/n 1177, and is located in NOD1P2 inside of Kononenko's ECOK.

2. Deltas to EVA2 and Getaheads

A. Make the following pen and ink changes to the EVA Checklist procedures:
   - ❑ FS 7-58 – delete EVA wipe from Crewlock bag inside Large ORU bag
   - ❑ FS 7-151 – delete steps 8 and 9 (references to EVA wipe)

Rationale: ISS program direction to NOT wipe bearing surfaces on port SARJ

B. JLP ACBM MLI Procedure
   - ❑ The inner MLI cover on the zenith JPM ACBM may interfere with the travel of the capture latches. We are developing an EVA workaround to fold back the MLI on EVA 2. Details are in message 17-0334 (MSG 032) – ACBM Hatch MLI Crew Brief.
   - ❑ On FS7-74, after EV1 step 7, EV2 step 9, the JPM ACBM MLI procedure will be performed.
   - ❑ Remaining time during the JEM outfitting task will be spent completing the Zenith ACBM tasks and installing the trunnion and keel covers.
   - ❑ Cleanup for the JEM Outfitting Tasks needs to start by Bingo Time PET 3:15
   - ❑ Extra time has been added for MS2/MS3/PLT to review these procedures and work tool config additions today.

3. New IVA Cleanup procedures from EVA1
Perform the following steps during the EVA Tool Config on FD5:

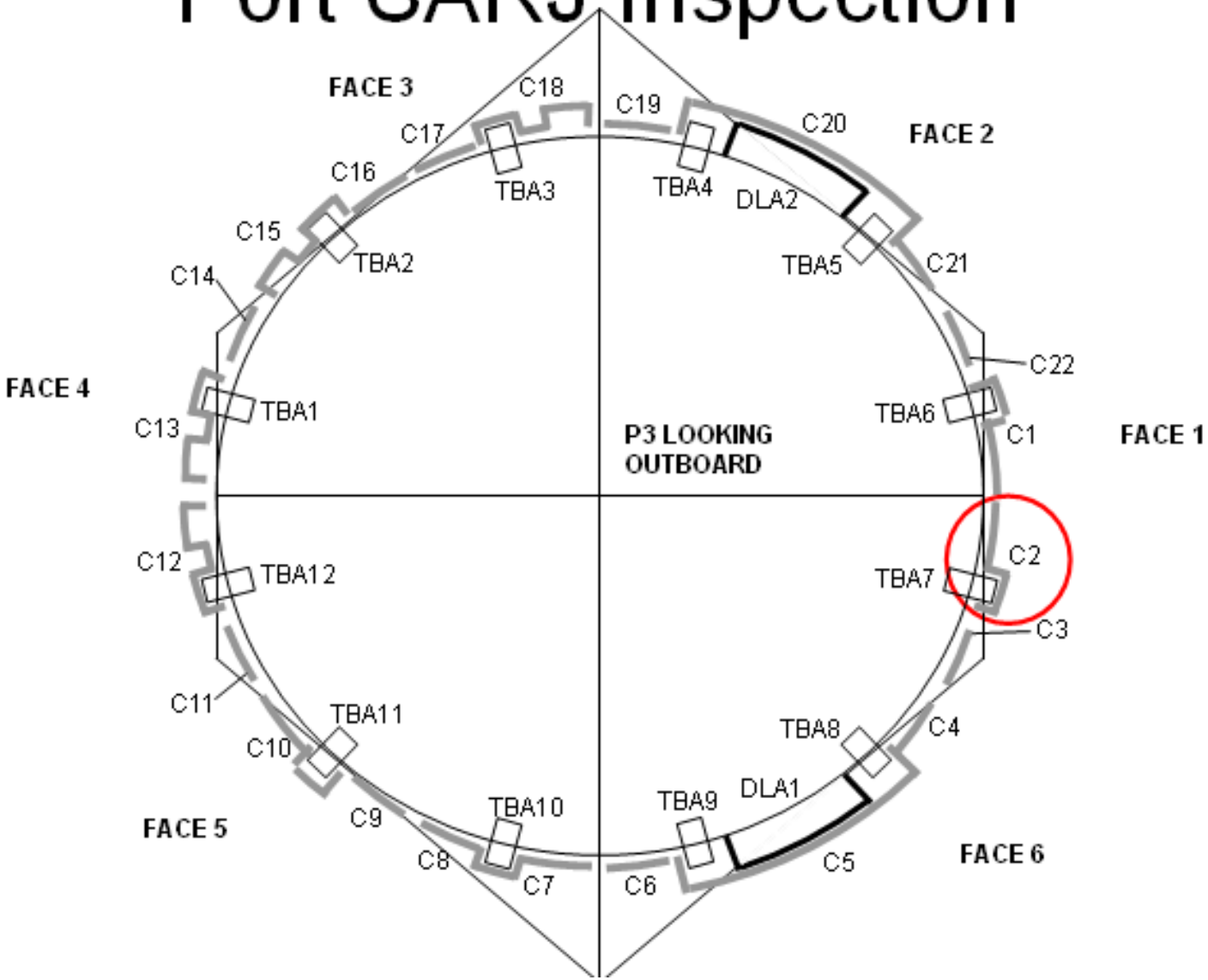
A. Retrieve 2 – 24" x 24" Ziplocs from Ziploc Pantry NOD1O4_C1
B. Label one Ziploc "S3 SARJ Cleaning DTO Grease Gun" and the other "S3 SARJ Used EVA Wipes"
C. Stow EVA Grease gun in labeled Ziploc
D. Stow Ziploc with grease gun in EVA Temp stow Mesh bag (Grease Gun stays on Orbit)
E. Stow used EVA wipes from EVA1 in labeled Ziploc
F. Stow Ziploc with EVA wipes in Bag I located in COL1D2 (Returned on STS-124)

4. Note JTVE MLI Reinstall procedures
Ten minutes have been added immediately after Tool Config for MS3 to perform this procedure, but it can be performed during tool config if that is more convenient for you. Reference MSG 027 (17-0314)

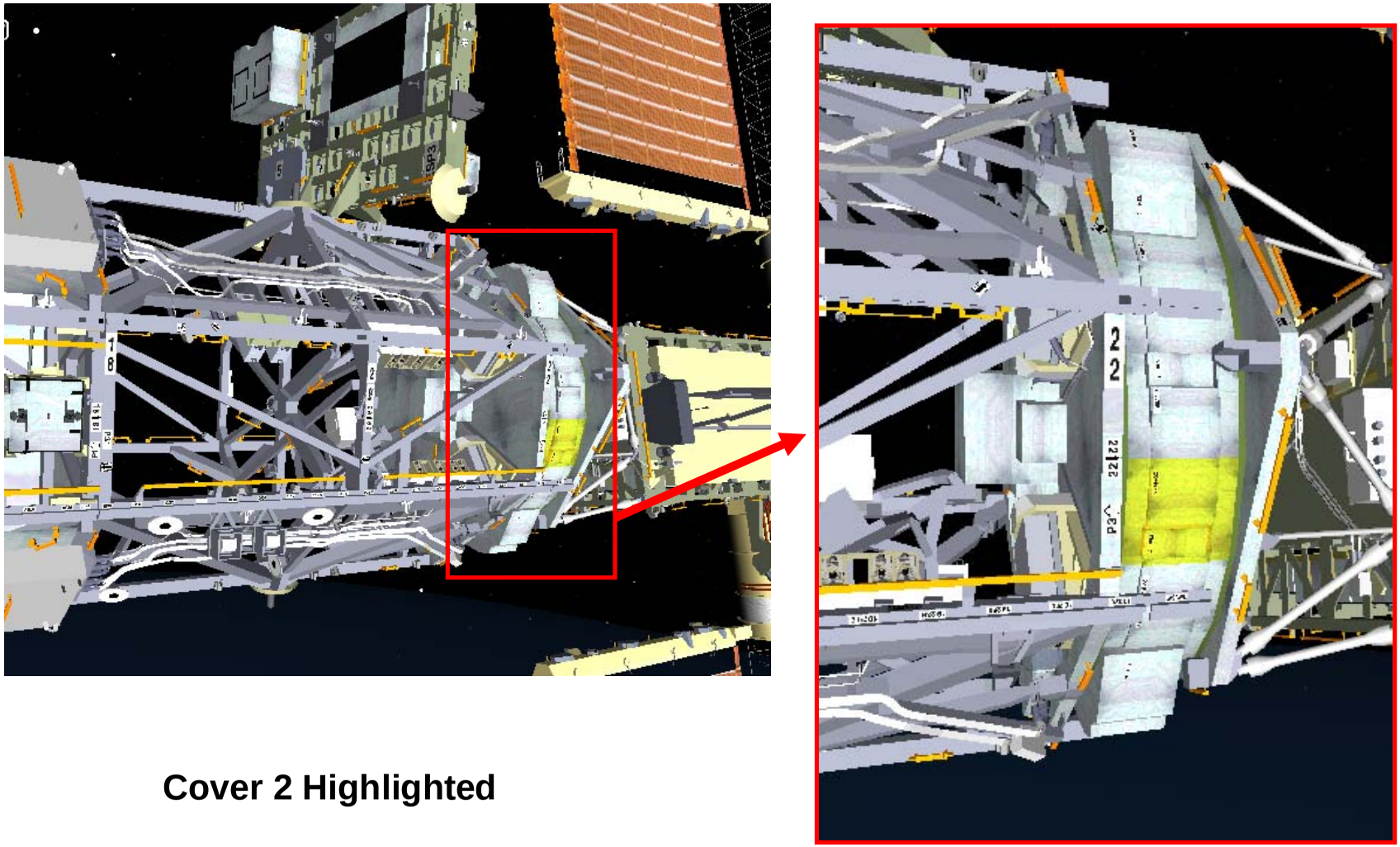
5. Suggested cover to remove for Port SARJ Inspection Getahead
For the port SARJ inspection you are still approved to remove any double cover that you choose. We have received the port SARJ angles for EVAs 2 and 3. Given the SARJ angles, we believe that double cover 2 on face 1 of the port SARJ will provide a good worksite for Mike and also give Ken the best chance of viewing the task. If the port SARJ inspection occurs on EVA 3, we expect that the JLP will obstruct Ken's view of the worksite regardless of which cover you remove. See following charts.

6. Rationale for lower than expected O2 Pressure during 10.2 CAMPOUT EVA PREP
Yesterday, as expected, you got ahead on procedure 1.216 (10.2 PSIA CAMPOUT EVA PREP). You reported that the O2 pressure was below range in step 2.1. The reason you saw a lower than expected pressure was related to two separate but compounding conditions. The first was pre-breathing on masks using the shuttle O2 system tied into the airlock. The second is that the O2 pressure supplied from shuttle is cyclical based on the heaters cycling on and off. When you read down the first 725 PSI, we were at the lower end of the O2 pressure cycle while creating a demand breathing on the same O2 system. Depending on where we are in the same O2 cycle during prep for EVA 2 and 3, you might experience the same case again. Nominally, the pressure check follows completion of mask prebreathe so that it's not an issue.

Port SARJ Inspection

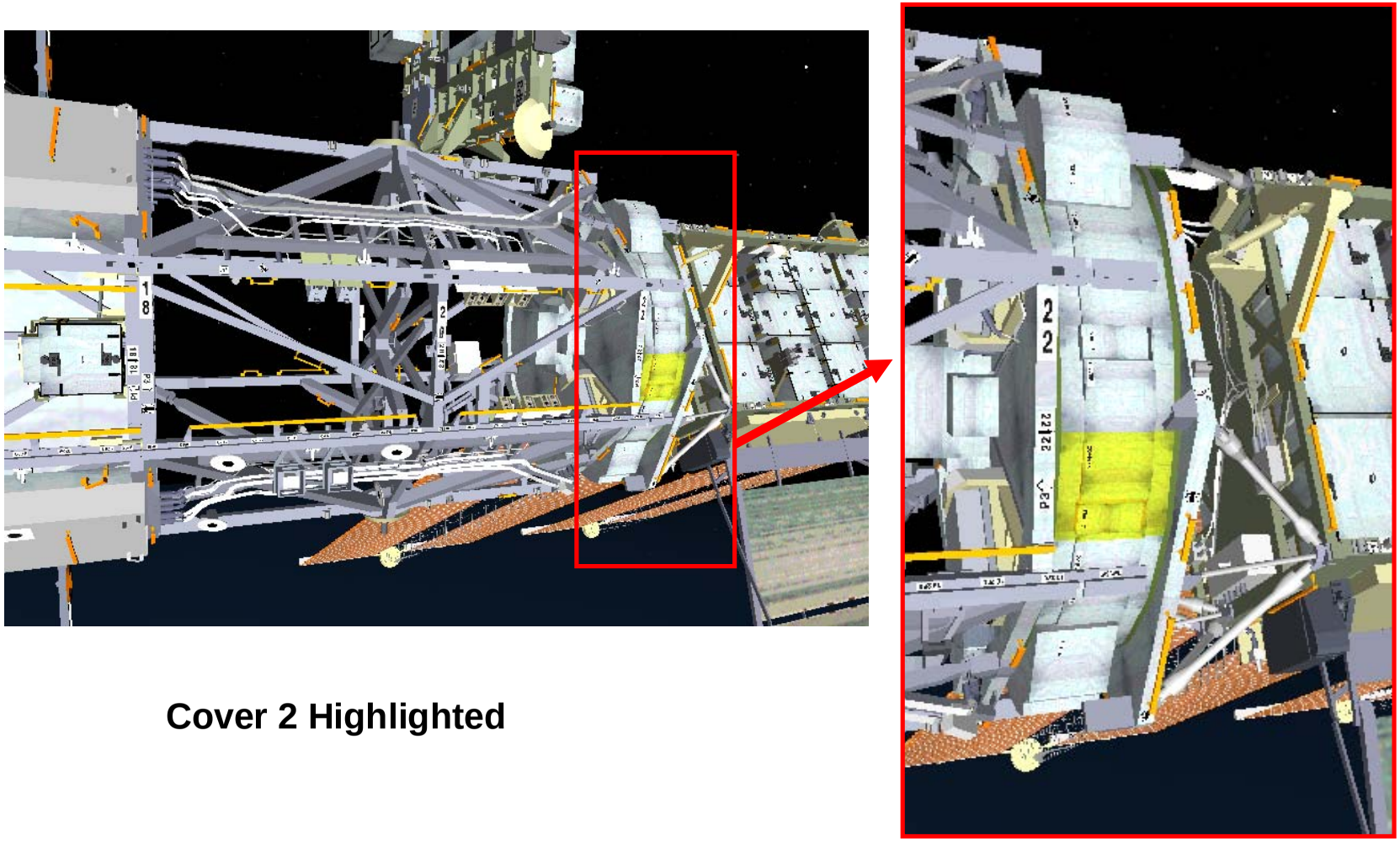


EVA 2 - Port SARJ at 255



Cover 2 Highlighted

EVA 3 - Port SARJ at 330



Cover 2 Highlighted