STS-124 / 1J

FD 06 Execute Package

MSG	Page(s)	Title
036A	1 - 14	FD06 Flight Plan Revision **(pdf)**
037	15 - 16	FD06 Mission Summary **(pdf)**
038	17	FD06 Communications Utilization Matrix **(pdf)**
040	18 - 19	5.401 JEMRMS Peripherals Configuration **(pdf)**
041	20	1J Robotics Procedure Update P&I **(pdf)**
042	21 - 22	1J Workaround Cribsheet for JPM ACBM MLI Task **(pdf)**
039B	---	Stowage Locations for FD06 Plan (GMT 157/158) **(pdf - Electronic Only)**
043	---	8.010 JEM Zenith CBM Contingency Power Workaround **(pdf - Electronic Only)**

Approved by FAO: *Jaime Marshik*

Last Updated: Jun 5 2008 9:45AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

STS-124 / 1J

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MSG INDEX

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036	FD06 Flight Plan Revision
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040	5.401 JEMRMS Peripherals Configuration
041	1J Robotics Procedure Update P&I
042	1J Workaround Cribsheet for JPM ACBM MLI TASK
043	8.01 JEM Zenith CBM Contingency Power Workaround

1. Cryo Config

For today's cryo config, the active tanks will be O2 Tanks 3 and 4, and H2 Tank 4.

R1 O2, H2 MANF VLV TK 1 (two) - OP (tb-OP)
O2 TK3 HTRS A, B (two) - AUTO

A11 CRYO TK4 HTR O2 A - AUTO

A15 CRYO TK5 HTRS O2 A, B (two) – OFF

2. Equipment Lost during Node 2 Pwrdns for JPM Ch A Activation

When MCC-H performs Node 2 Prep for JPM Channel A Activation to provide safing for the JPM Channel A Power Jumper Installation today, DDCU N2S1B & N2S4A converters will be deactivated, and the N2-1 MDM and N2 MTL pump will be powered down. As a result, the following equipment will be down for approximately 1-2 hours (we'll give you a head's up call a few minutes before it happens):

1. Node 2 Stbd ATU 1
2. Video routing to/from JEM, Columbus, Node 2 and Orbiter
3. Power to two IMV valves in Node 2 (Port Aft, Ovhd Aft). In event of an emergency, crew will be required to manually close those valves.
4. Node 2 Deck and Port Rack Power Switches
5. JEMRMS C&W panel pushbutton functionality

3. Transfer Status

Mark and Aki, you are doing great on transfer time!!! Flight days 7 and 8 are going to be your big transfer days, but you also have several hours on flight days 9, 10, and 11. We are estimating that you have more than enough scheduled transfer time to complete the remaining transfers. Keep up the great work!!

4. LCS Anomaly

The OBSS Sensor Package 2 LCS experienced an erratic position sensor for the Y galvanometer during Area Scan 12. The Y-galvo is used to position one of two mirrors required to perform Area and Line scans. The X galvo looks OK. The team is working to determine if the Y galvo anomaly will preclude acquisition of quality LCS data, should LCS be required. This LCS anomaly does not affect the planned FD12 OBSS Inspection.

5. Condensate Changeout Details
   At MET 4/19:15 perform CHANGEOUT of SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS), p. 5-36. Retrieve empty Condensate CWC s/n 5051 from Aki's Water Ops Mesh Bag and temp stow full Condensate CWC s/n 5050 for dumping FD08.

6. SSC Setup Activity
   For Akihiko-san, please execute the following in order.
   A. ASSY_OPS: 1.101 Hardwired SSC Installation in JPM, Uplinked procedures:
      POC: 17-0282 Drag-Thru SSC Installation in JPM.
      Plug-in Info: Hardwired SSC - UOP b3 AD6 J4, Drag-Thru SSC - UOP a2 FD4 J3.
      SSC setup locations in JPM are crew preference.
   B. For Japanese Language enable: POC: 16-0955 Enable Japanese Language On SSC.
   C. For IP Phone Configuration: POC: 17-0281 IP Phone Reconfiguration.
   D. **On MCC-H GO:** Perform POC: 17-0022A SSC Client Reload step 6.
      Ref. MSG 040, 5.401 JEMRMS Peripherals Configuration, if req'd.

7. ACBM MLI Task Cribsheet
   For Ken: We have uplinked MSG 042 (1J Workaround Cribsheet For JPM ACBM MLI TASK) for the JPM ACBM MLI task. This cribsheet contains workarounds in case Velcro tab 2 (Ref MSG 032) becomes detached while securing the JPM ACBM MLI clear of the latches.

8. JEM Zenith CBM Contingency Power - Updated Procedure
   The published procedure Assembly Ops/8.010 JEM Zenith CBM Contingency Power Workaround has been updated in MSG 043 to connect directly to an ISS UOP in place of using the Diagnostic Power Supply. In the event of a power failure to the JEM Zenith CBM, we'll ask you to execute this updated procedure instead of the version flown in your hardcopy Assembly Ops book.

9. REPLACE PAGES 2-18, 2-20, & 3-56 THROUGH 3-65.

REPLANNED

NO UNISOLATED EXERCISE

[DURING ESP-3 NTA PREP]

06/05/08 03:54:16

GMT 06/05/08 (157) — 12 10 11 12 13 14 15 16 17 18 19 20 21 — 13 14 15 16 17 18 19 20 21 22 23 005/00

MET Day 004

STS-124	**FD06** CDR KELLY	SLEEP	POST SLEEP	HYG BRK/ HATCH CLS	CAMPOUT EVA PREP	EMU PURGE	EMU PRE BREATHE	C/L DPRS	P-DPR	DUMMY PANEL H	COND	C/O C/W C	INIT 3	MEAL	CWC TERM	CWC XFER	BSA-T	PWR FILL #1	PWR XFER	P/TV07 EVA OPS							
	IV PLT HAM	SLEEP	POST SLEEP			LCC*	ILLUM	OFF	DMS1 XFER	INHBT	PAD	MCIU	P/TV 07 S/U	P-DPR	IVA SUPPORT												
	MS1 NYBERG	SLEEP	LOG	POST SLEEP		EXERCISE	JRMS	CWCO	WS XFER	AMIA INSTL	MEAL	ICS XFER			RYUTAI XFER			SRMS	MNVR^	JLP EGRS							
	EV2 MS2 GARAN	SLEEP	POST SLEEP	HYG BRK/ PREBREATHE 14.7 RPRS 10.2 DPRS	CAMPOUT EVA PREP	EMU PURGE	EMU PRE BREATHE	C/L DPRS	P-DPR	EVA EGRS/ SETUP	INSTL FWD JTVE	RMV RMS CVR & EE MLI	ZEN ACBM PREP	INST TR&KL CVR	PREP ESP3 NTA	CP9 ETVCG RETRV											
	EV1 MS3 FOSSUM	SLEEP	POST SLEEP	HYG BRK/ PREBREATHE	CAMPOUT EVA PREP	EMU PURGE	EMU PRE BREATHE	C/L DPRS	P-DPR	EVA EGRS/ SETUP	INSTL AFT JTVE	RMV RMS CVR & EE MLI	ZEN ACBM PREP	INST TR&KL CVR	PREP ESP3 NTA	CP9 ETVCG RETRV											
	MS4 HOSHIDE	SLEEP	SLVA	POST SLEEP	DRAG*	EPS1 XFER	EPS1 UMBIL	HCTL-B RCNFG	HCTL-A RCNFG	EXERCISE	VEST 3 OUTFIT	MEAL	JEMRMS CNSL SETUP	WS C&W C/O	JLP EGRS												
DN	FE-2 REISMAN	SLEEP (8.5)	PS	PW	FAN-1	JEMRMS UMBIL	DMS1 XFER	DMS1 UMBIL	WS UMBIL	MEAL	MON CVR	SAIBO XFER	JRSR XFER	CEVIS	TVIS												
EXP 17	ISS CDR VOLKOV	SLEEP (8.5)	PS	DPC	PW	DCS	HAM	KПТ2	EMU PURGE	EMU PRE BREATHE	C/L DPRS	TVIS	MEAL	KПТ2	IMS	RYUTAI XFER	CKB BTK PREP	СОЖ-MNT									
	FE-1 KONONENKO	SLEEP (8.5)	PS	DPC	PW	EPS1 XFER	VELO + RED	WS XFER	DUMMY PANEL H	MEAL	ICS XFER	ИП 1 MNT	TVIS	♣	PW												
UP	FE-2 CHAMITOFF	SLEEP (8.5)	SLVA	PS	HYG BRK/ HATCH CLS	CAMPOUT EVA PREP	EMU PURGE	EMU PRE BREATHE	C/L DPRS	DMS2 LL	ADAPT	MEAL	GLOVE	SAIBO XFER	JRSR XFER	CEVIS H/O	PW										

STS

ORBIT	72	73	74	75	76	77	78	79	
DAY/NIGHT									
TDRS W -171 / E -46 / Z 275									
ORB ATT	BIAS -XLV -ZVV								

NOTES

*DEACT

*JEM DRAG-THRU DEPLOY

NODE2 PWRDN/PWRUP

*INIT

CH A ACT

♣СОГС-ВОЗДУХ-MODE

^JPM VIEW

06/05/08 03:54:16 **REPLANNED**

GMT 06/05/08 (157) 22 23 06/06 01 02 03 04 05 06 07 08 09
MET Day 005 005/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-124	**FD06** CDR KELLY	P/TV07 EVA OPS	PRE-PRPR	REPRS	POST EVA W/H2O,METOX	BSA INIT	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP			
STS-124	**IV** PLT HAM	IVA SUPPORT	PRE-PRPR	REPRS	IMU	EXERCISE	IL ON	PRE SLEEP	SLEEP				
STS-124	MS1 NYBERG	♣FAN-O	NODE 2-ZEN CPA-INST	AMIA*	PRE SLEEP	SLEEP — ISS EXTERNAL SURVEY							
STS-124	**EV2** MS2 GARAN	CP9 ETVCG RETRV	CLNUP /INGR	PRE-PRPR	REPRS	POST EVA W/H2O,METOX	PRE SLEEP	SLEEP					
STS-124	**EV1** MS3 FOSSUM	CP9 ETVCG RETRV	CLNUP /INGR	PRE-PRPR	REPRS	POST EVA W/H2O,METOX	PRE SLEEP	SLEEP					
STS-124	MS4 HOSHIDE	⊕JPM HCH LCH	PCS	RELCT	SSC SETUP	JEMRMS DOUG S/U JPM	PRE SLEEP	SLEEP					
DN	FE-2 REISMAN	TVIS	PW	CBCS JPM S/U	PW	DPC	PS	SLEEP (8.5)					
EXP 17	ISS CDR VOLKOV	JPM UNGPL	PMDGF3	PGDRFL3	VELO + RED	EXER	PW	DPC	PS	SLEEP (8.5)			
EXP 17	FE-1 KONONENKO	PW	NODE 2-ZEN CPA-INST	PW	DPC	PS	SLEEP (8.5)						
UP	FE-2 CHAMITOFF	JPM UNGPL	PMDGF3	PGDRFL3	PW	POST EVA W/H2O,METOX	EVA*	DPC	PS	PMC	PS	SLEEP (8.5)	

BASE Δ

STS — ORBIT: 80 81 82 83 84 85 86 87

DAY/NIGHT

TDRS W -171 / E -46 / Z 275

ORB ATT: BIAS -XLV -ZVV

NOTES
♣JLP EGRS
⊕JLP EGRS
*EQUALIZE
*D/L

STS-124 FD06

GMT Date 06/05 (157) | W | TDRSE | Z | D/N | ORB | MET Day 004 | STS ATI | CDR KELLY | PLT HAM | MS1 NYBERG | Notes

12:00 13:00 14:00 15:00 16:00

10:00 11:00 12:00 13:00

72 73 74

BIAS-XLV-ZVV

SLEEP

SLEEP

SLEEP

FD06 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)

EVA SYS: 1.211 HYGIENE BREAK
Steps 21-29
MCC-H will perform Step 23

EVA SYS:1.216 10.2 PSIA CAMPOUT EVA PREP

STS-124 FD06

GMT Date 06/05 (157) | W | TDRSE | Z | D/N | ORB | MET Day 004 | STS ATI | MS2 GARAN | MS3 FOSSUM | MS4 HOSHIDE | Notes

12:00 13:00 14:00 15:00 16:00

10:00 11:00 12:00 13:00

72 73 74

BIAS-XLV-ZVV

SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYS: 1.211 HYGIENE BREAK
MCC-H will perform
Steps 1-4, 16-20, & 23

EVA SYS:1.216 10.2 PSIA CAMPOUT EVA PREP

LIQUID SLVA(ORB OPS,SDBI)Step B

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

P/TV05 ISS INTRNL OPS(HC)(P/TV,SCENES)
JEM DRAG-THRU CABLE DEPLOY
Ref. MSG 039 & Transfer List: Item 25
ASSY OPS: 5.007 RACK XFER - EPS1,DMS1,WS
EPS1 RACK XFER
Ref. MSG 039

06/05/08 03:54:58

STS-124 FD06

GMT Date 06/05 (157) — MET Day 004 — STS ATI

CDR KELLY

- 16:00 — EVA SYS:1.216 10.2 PSIA CAMPOUT EVA PREP
- 17:00 — EVA SYS: 1.220 EMU PURGE
- 17:00 — EVA SYS: 1.225 EMU PREBREATHE
- 18:00 — EVA SYS: CREWLOCK DPRS/RPRS(CC) CREWLOCK DEPRESS
- 18:00 — EVA SYS:CREWLOCK POST DPRS(CC)EGRS/S/U
- 19:00 — DUMMY PANEL H RELOCATE Ref. MSG 039
- 19:00 — Per crew pref, relocate panels to JLP1F1 and P2.
- 19:00 — Ref 5.005 JEM SETUP BEFORE SYSTEM RACK TRANSFER if reqd.
- 19:00 — Release bonding plate from panel (Ratchet,1/4"Drive;5/32"Hex Head).
- 19:00 — Attach bonding plate to standoff.
- 19:00 — Tighten, torque fastener (one) to 35 in-lbs
- 19:00 — [Ratchet,1/4"Drive,5/32"Hex Head,(10-50 in-lbs Trq Wrench].
- 19:00 — SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS) CHANGEOUT Ref. MSG 036, Item 5
- 19:00 — SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) INIT #3 Ref. MSG 020
- 20:00 — MEAL

PLT HAM

- 16:00 — POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- 16:00 — LCC DEACTIVATION (P/TV, LCS CC CONFIG)
- 16:00 — TV (ILLUMINATOR OPS) (PHOTO/TV, CC) ILLUMINATORS OFF - ALL
- 16:00 — ASSY OPS: 5.007 RACK XFER - EPS1,DMS1,WS DMS1 RACK XFER Ref. MSG 039
- 18:00 — EVA2 INHIBIT PAD (EVA, TIMELINES)
- 18:00 — L17 Check MCIU filter screen
- 18:00 — P/TV07 EVA (PHOTO/TV, SCENES) Perform SETUP & OPS
- 18:00 — EVA SYS:CREWLOCK POST DPRS(CC)EGRS/S/U
- 19:00 — IVA SUPPORT FOR EVA

MS1 NYBERG

- 16:00 — POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- 16:00 — EXERCISE
- 18:00 — CDH: 1.107 C&W PANEL VERIF Step 4.1 Press Test button on JEMRMS C&W panel and verify all lights are illuminated.
- 18:00 — ASSY OPS: 5.007 RACK XFER - EPS1,DMS1,WS WS RACK XFER Ref. MSG 039
- 19:00 — ASSY OPS: 1.800 AMIA INSTALL & REMOVAL Step 2 Ref. Transfer List: Item 18.1 Ref. MSG 039
- 19:00 — MEAL

Notes

STS-124 FD06

GMT Date 06/05 (157) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI

MS2 GARAN

- 16:00 EVA SYS:1.216 10.2 PSIA CAMPOUT EVA PREP
- 17:00 EVA SYS: 1.220 EMU PURGE
- EVA SYS: 1.225 EMU PREBREATHE
- 18:00 EVA SYS: CREWLOCK DPRS(CC)
- EVA SYS: CREWLOCK POST DPRS(CC)EGRS/S/U
- EGRESS/EVA 2 SETUP
- 19:00 INSTALL FORWARD JTVE
- 20:00 REMOVE JEMRMS THM CVRS & EE MLI

MS3 FOSSUM

- EVA SYS:1.216 10.2 PSIA CAMPOUT EVA PREP
- EVA SYS: 1.220 EMU PURGE
- EVA SYS: 1.225 EMU PREBREATHE
- EVA SYS: CREWLOCK DPRS(CC)
- EVA SYS: CREWLOCK POST DPRS(CC)EGRS/S/U
- EGRESS/EVA 2 SETUP
- INSTALL AFT JTVE
- REMOVE JEMRMS THM CVRS & EE MLI

MS4 HOSHIDE

- ASSY OPS: 5.007 RACK XFER - EPS1,DMS1,WS EPS1 RACK XFER Ref. MSG 039
- ASSY OPS: 5.002 EPS1 RACK UMBILICAL MATE Ref. MSG 039
- ASSY OPS: 4.011 JPM HCTL A(B) RECONFIG HCTL-B Ref. MSG 039
- ASSY OPS: 4.011 JPM HCTL A(B) RECONFIG HCTL-A Ref. MSG 039
- EXERCISE
- ASSY OPS: 2.004 VEST OUTFIT NOD2 PORT TO JPM - PART 3 Ref. MSG 039

Notes

STS-124 FD06

GMT Date 06/05 (157) | W | TDRSE | Z | D/N | ORB | MET Day 004 | STS ATI

CDR KELLY	PLT HAM	MS1 NYBERG	Notes
MEAL		MEAL	
SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Report B/C and S/N to MCC		ASSY OPS: 5.008 RACK XFER - JEMRMS,ICS, SAIBO,RYUTAI, JRSR ICS RACK XFER Ref. MSG 039	
CWC TRANSFER Transfer 1 CWC to ISS			
EVA SYS: 1.605 BSA BATT RECHRG - TERM Ref:STS-124/1J EMU CONSUMABLES TRACKING CC			
PWR FILL (ORB OPS, ECLS) Perform WATER FILL #1 Ref. MSG 020 Report B/C and S/N to MCC		ASSY OPS: 5.008 RACK XFER - JEMRMS,ICS, SAIBO,RYUTAI,JRSR RYUTAI RACK XFER Ref. MSG 039	
PWR TRANSFER Tansfer 1 PWR to ISS	IVA SUPPORT FOR EVA		
P/TV07 EVA (P/TV, SCENES) Perform OPS		RETURN TO JPM INSTALL VIEWING (PDRS, VIEWING SUPPORT)	NO UNISOLATED EXERCISE DURING ESP-3 NTA PREP
		ASSY OPS: 7.004 JLP EGRS & JLP/NOD2 IMV ISOL MCC-H performs Step 8,if requested. Ref. MSG 039	

Time scale: 18:00, 19:00, 20:00, 21:00; 20:00, 21:00, 22:00, 23:00, 00:00

BIAS-XLV-ZVV

77, 78, 79

STS-124 FD06

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

18:00 19:00 20:00 21:00

77 78 79

BIAS-XLV-ZVV

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

MS2 GARAN	MS3 FOSSUM	MS4 HOSHIDE	Notes
REMOVE JEMRMS THM CVRS & EE MLI	REMOVE JEMRMS THM CVRS & EE MLI	ASSY OPS: 2.004 VEST OUTFIT NOD2 PORT TO JPM - PART 3 Ref. MSG 039	
ZENITH ACBM PREP	ZENITH ACBM PREP	MEAL	
INSTALL TRUNNION & KEEL COVER	INSTALL TRUNNION & KEEL COVER	ASSY OPS: 4.012 JEMRMS CNSL SETUP Ref. MSG 039 Deploy 2 Cue Cards for TVC operations Deploy one on JEMRMS Rack and one on WS Rack. CCs located in SODF CTB in ziplock with JPM Window Shutter CC. Deploy JPM Window Shutter CC per crew preference.	
PREP ESP3 NTA	PREP ESP3 NTA	CDH: 1.107 C&W PANEL VERIF Step 4.2 Press Test button on WS C&W panel and verify all lights are illuminated. ASSY OPS: 7.004 JLP EGRS & JLP/NOD2 IMV ISOL MCC-H performs Step 8,if requested. Ref. MSG 039	NO UNISOLATED EXERCISE DURING ESP-3 NTA PREP
CP9 ETVCG RETRIEVE	CP9 ETVCG RETRIEVE		

STS-124 FD06

GMT Date 06/05 (157) | W | TDRSE | Z | D/N | ORB | MET Day 005 | STS ATI

CDR KELLY	PLT HAM	MS1 NYBERG	Notes
P/TV07 EVA (P/TV, SCENES) Perform OPS	IVA SUPPORT FOR EVA	ASSY OPS: 7.004 JLP EGRS & JLP/NOD2 IMV ISOL Continued from Page 3-60 ASSY OPS: 7.001 JLP VENT FAN ACT(DEACT) -MKAM DEACT Step 2 ASSY OPS: 1.100 CBM CONTROLLER PANEL ASSEMBLY INSTALL - GENERIC Ref. MSG 039 for Step 1.1. MCC-H will perform Step 1.2.	
EVA SYS: CREWLOCK DPRS/RPRS(CC)PRE RPRS EVA SYS: CREWLOCK DPRS/RPRS(CC) CREWLOCK REPRESS EVA SYSTEMS: 1.240 POST EVA With H2O With METOX MCC-H will perform Steps 44 & 68 Ref: STS-124/1J EMU CONSUMABLES TRACKING CC	EVA SYS: CREWLOCK DPRS/RPRS(CC)PRE RPRS EVA SYS: CREWLOCK DPRS/RPRS(CC) CREWLOCK REPRESS IMU STAR OF OPTY ALIGN (ORB OPS, GNC) EXERCISE		
	TV (ILLUMINATOR OPS) (PHOTO/TV, CC) ILLUMINATORS ON - A,D	ASSY OPS: 1.800 AMIA INSTALL & REMOVAL Step 3. Ref. MSG 039	
EVA SYS: 1.605 BSA BATTERY RECHARGE -INIT Ref: STS-124/1J EMU CONSUMABLES TRACKING CC			
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	

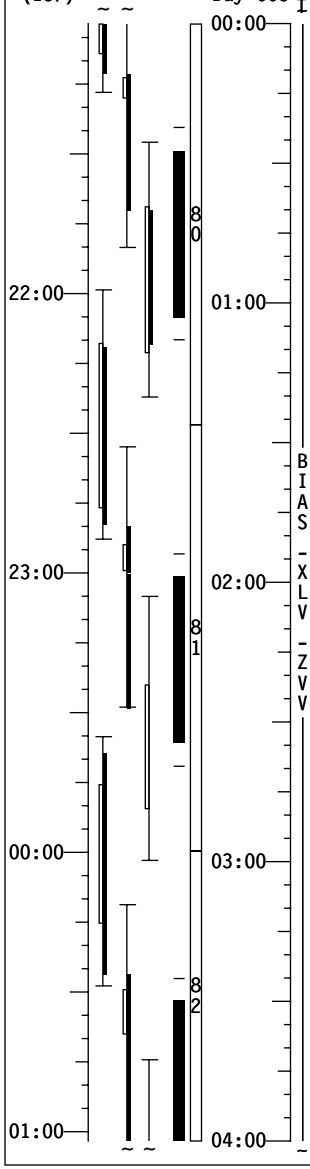
BIAS-XLV-ZVV

Time scale: 22:00, 23:00, 00:00, 01:00; 00:00, 01:00, 02:00, 03:00, 04:00

80, 81, 82

STS-124 FD06

GMT Date 06/05 (157) | W | TDRSE | Z | D/N | ORB | MET Day 005 | STS ATI



BIAS - XLV - ZVV

MS2 GARAN

CP9 ETVCG RETRIEVE

EVA1 CLEANUP

EVA SYS: CREWLOCK DPRS/RPRS(CC)PRE RPRS

EVA SYS: CREWLOCK DPRS/RPRS(CC)
CREWLOCK REPRESS

EVA SYSTEMS: 1.240 POST EVA
With H2O
With METOX
MCC-H will perform Steps 44 & 68

Ref: STS-124/1J EMU CONSUMABLES TRACKING CC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS3 FOSSUM

CP9 ETVCG RETRIEVE

EVA1 CLEANUP

EVA SYS: CREWLOCK DPRS/RPRS(CC)PRE RPRS

EVA SYS: CREWLOCK DPRS/RPRS(CC)
CREWLOCK REPRESS

EVA SYSTEMS: 1.240 POST EVA
With H2O
With METOX
MCC-H will perform Steps 44 & 68

Ref: STS-124/1J EMU CONSUMABLES TRACKING CC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS4 HOSHIDE

ASSY OPS: 7.004 JLP EGRS & JLP/NOD2 IMV ISOL Continued from Page 3-61

ASSY OPS: 1.606 HATCH LATCH POSITION TO HARDSTOP
Perform all steps for JPM Overhead Hatch.

PCS RELOCATE Ref.MSG 039(MSG 40 if req'd)
Relocate PCS w/desk & bogen arm to Right side of JEMRMS rack.Secure cables.

SSC SETUP
Ref. MSG 036, Item 6
Ref. MSG 039

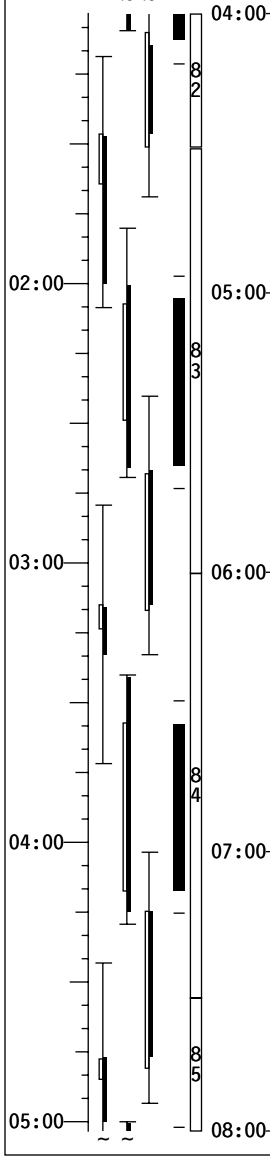
Ref. MSG 041 then:
JEMRMS DOUG STARTUP
(JODF/ROBO, ACT & C/O) Step 1

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Notes

STS-124 FD06

GMT Date 06/06 (158) | W | TDRSE | Z | D/N | ORB | MET Day 005 | STS ATI | CDR KELLY | PLT HAM | MS1 NYBERG | Notes



04:00 — 05:00 — 06:00 — 07:00 — 08:00

BIAS - XLV - ZVV

CDR KELLY

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRIVATE MEDICAL CONFERENCE
Perform Via A/G 2

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
√HUM SEP for H2O Accumulation

SLEEP

PLT HAM

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SLEEP

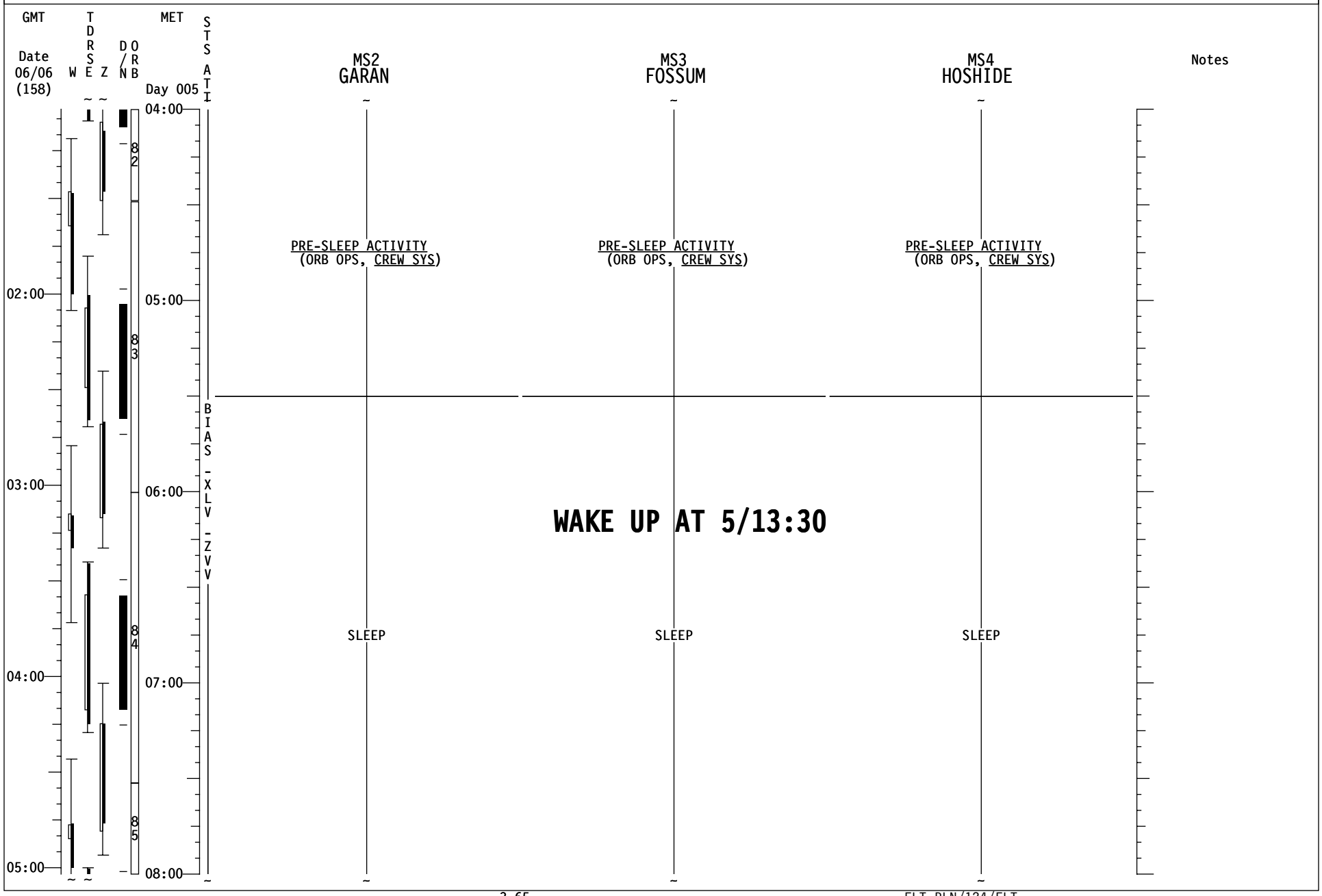
MS1 NYBERG

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SLEEP

WAKE UP AT 5/13:30

STS-124 FD06


GMT
Date 06/06 (158)
W
T D R S E
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D / N
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MET
Day 005
S T S A T I
BIAS-XLV-ZVV
02:00
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04:00
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06:00
07:00
08:00
82
83
84
85
MS2 GARAN
MS3 FOSSUM
MS4 HOSHIDE
Notes
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
WAKE UP AT 5/13:30
SLEEP
SLEEP
SLEEP

Good Morning Discovery!!!

Your downlink of yesterday's Kibo opening is great! But it does lead to a question- were you in the JEM or the gym?
We have not seen that much space in space since Skylab!!!!

Have a great EVA day!

YOUR CURRENT ORBIT IS: 185 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.
NKT – CLOSED

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 79 – 4/23:15 SKC 270/07P11
EDW22 ORB 95 – 5/23:37 SKC 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 = 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	316 FPS
ARCS (TOTAL ABOVE QTY1)	37 FPS
TOTAL IN THE AFT	353 FPS
ARCS (TOTAL ABOVE QTY2)	70 FPS
FRCS (ABOVE QTY 1)	30 FPS
AFT QTY 1	81 %
AFT QTY 2	43 %

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	
6	EVA prep/post	X (hard line/UHF)			X		
	EVA 2	X			X		
	JEMRMS umbilical connect			X		X	Crew will use BPSMU (A/G2). SSIPC confirms safing in place
	EPS1 transfer	X				X	Crew will use BPSMU (A/G1)
	DMS1 transfer		X			X	
	EPS1 and DMS1 umbilical connect		X			X	Via JEM ATU if set up. SSIPC confirms safing is in place
	HCTL Reconfig		X			X	
	JPM Vestibule Outfitting #3		X		X		
	WS rack transfer and umbilical connect		X			X	Via JEM ATU if set up. SSIPC confirms safing is in place
	JEMRMS console setup		X			X	
	SRMS Reposition for Viewing SSRMS Ungrapple of JPM			X	X		
	Remaining JEM rack transfers		X			X	Via JEM ATU if set up
	JLP Egress		X		X		
	N2 Zenith CPA install		X		X		
	CBCS S/U JPM		X		X		
	SSRMS Ops		X		X		Ops not integrated

17-0340 (MSG 040) 5.401 JEMRMS PERIPHERALS CONFIGURATION

(ROBOTICS/1J/FIN2) Page 1 of 2 pages

OBJECTIVE:

Define laptop configuration around JEMRMS Console. Laptops are SSCs (for IPV, DOUG, Video), PCS, RLT and Arm Bus Monitor.

LOCATION:

JPM1A6 (JEMRMS Console)

REFERENCE PROCEDURE(S):

4.012 JEMRMS CONSOLE SETUP
2.308 PCS SETUP
1.101 HARD WIRED SSC INSTALLATION IN JPM
17-0282 DRAG THRU SSC INSTALLATION IN JPM
1.402 JEMRMS DOUG STARTUP
P/TV05 ISS INTERNAL OPS
4.018 RLT SETUP FOR JEMRMS ARM BUS MONITOR

NOTE

1. Locations for the laptops may be changed as desired.
2. To use DOUG on “SSC for Video”, RS-232C Y cable will be plugged into “SSC for Video” instead of “SSC for iPV”.
3. Basically, connection to the UOPs are defined in the Plug In Plan.

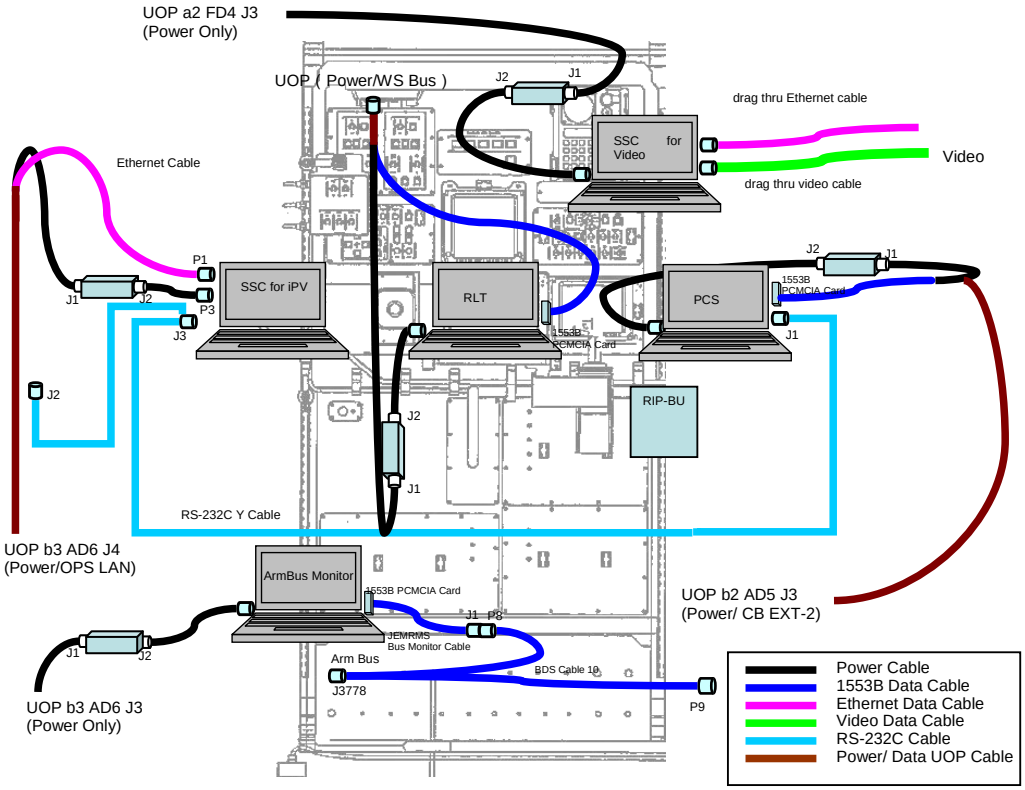


Figure 1 Connection Overview

1. LAPTOP INSTALLATION TO JEMRMS CONSOLE
   Use Multiuse Bracket and Laptop Desk to locate a PCS and two SSCs to JEMRMS Console.

2. RLT CABLE CONNECTION
   Refer {4.012 JEMRMS CONSOLE SETUP} step7 (US SODF: Assembly Operations 1J: JPM Setup and Reconfiguration) for the detail cable connections for RLT.

3. PCS CABLE CONNECTION
   Refer {2.308 PCS SETUP} step 2 (POC - Portable Onboard Computers: 2.Nominal: 2.3 PCS) for the detail cable connections for PCS.

4. SSC CABLE CONNECTION
   Refer {1.101 HARD WIRED SSC INSTALLATION IN JPM} steps 1 to 2 (US SODF: Assembly Operations 1J: JPM Setup and Reconfiguration) for the detail cable connections for hard wired SSC.
   Refer {17-0282 DRAG THRU SSC INSTALLATION IN JPM} steps 1 to 3 (Uplinked procedures: US SODF: POC) for the detail cable connections for drag through SSC.

5. DOUG CONFIGURATION FOR REAL TIME ARM DATA
   Refer {1.402 JEMRMS DOUG STARTUP} step 1.1 (JAXA SODF: Robotics: Activation and Checkout) for the detail cable connections to use DOUG configured SSC for real-time arm data.

6. SSC VIDEO CONNECTION (IF REQUIRED)
   Refer {P/TV05 ISS INTERNAL OPS} page FS1-39 for the detail cable connections for JEM drag through cable to SSC.

7. ARM BUS MONITOR INSTALLATION
   Refer {4.018 RLT SETUP FOR JEMRMS ARM BUS MONITOR} steps 1.2 to 1.8 (US SODF: Assembly Operations 1J: JPM Setup and Reconfiguration) for the detail cable connections for JEMRMS Arm Bus monitor.

The following 1J Robotics Procedure needs to be updated.

1. **JAXA_SODF: Robotics: Activation and Checkout;**
   1.402 JEMRMS DOUG STARTUP

   Correct PCS-DAS server configuration and delete star block in step 1.6.

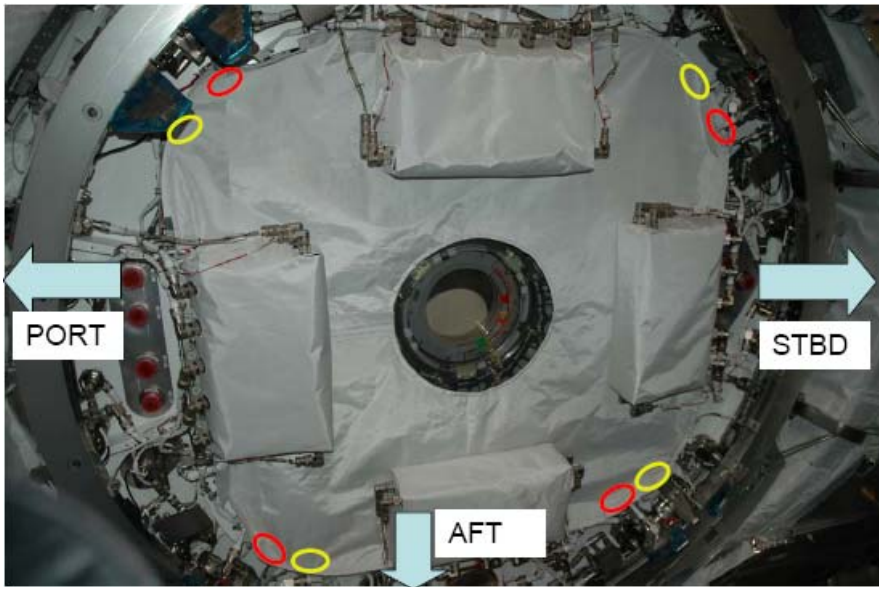
   From: Verify ‘R10_006D1 Configuration’ within 10 seconds.

   ```
   * ******************************************
   * If ‘R9.009 Configuration’
   * Select ‘R10_006D1 Configuration’
   * sel Start the Server
   * ******************************************
   ```

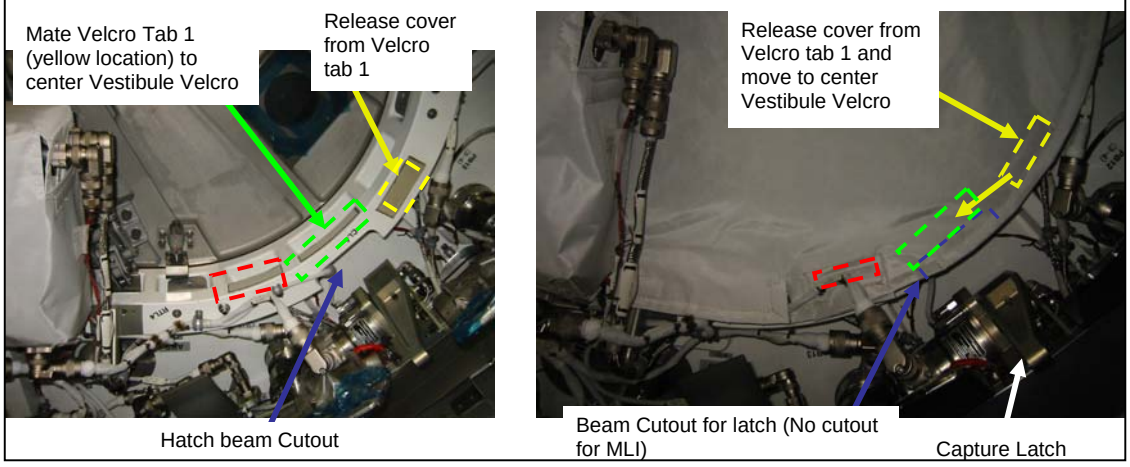
   To: Verify ‘R10_011JEM Configuration’

17-0344 (MSG 042) – 1J Workaround Cribsheet for JPM ACBM MLI Task
Page 1 of 2

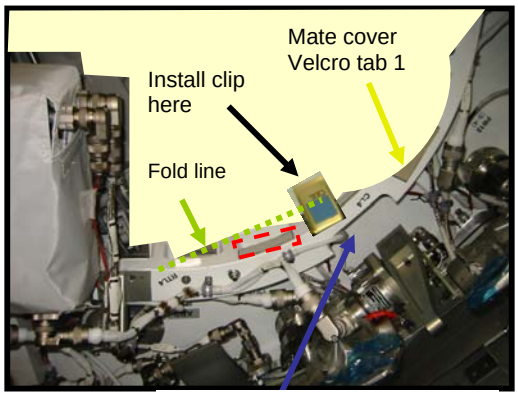
Task	Failure	Action
XIX. JPM ACBM MLI	A. Demate wrong Velcro tab (red location)	1. Remate Velcro Tab 2 (red location) to the Vestibule Velcro (red location); proceed with task
	B. Cannot remate Velcro Tab 2	1. Mate Velcro Tab 1 (yellow location) to center Vestibule Velcro; tuck free portion of cover under inboard side of hatch beam; verify cover restrained clear of latch cutout 2. Mate Velcro Tab 1 (yellow location); tuck free portion of cover under inboard side of hatch beam; install clip over fold line; release tether; verify cover restrained clear of latch cutout 3. Install binder clip on MLI over hatch beam cutout, with pile Velcro up; remove tether from clip; verify Velcro Tab 1 is free; tuck free portion of cover under inboard side of hatch beam so that Velcro on clip mates with Vestibule Velcro; verify cover restrained clear of latch cutout



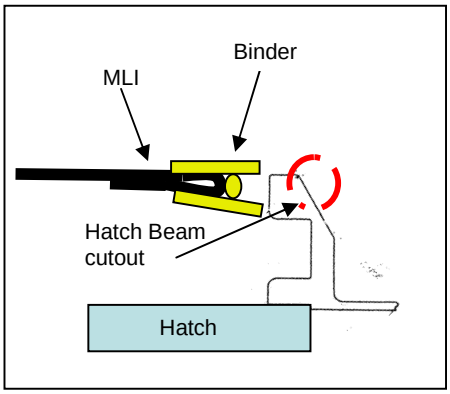
Workaround B1:



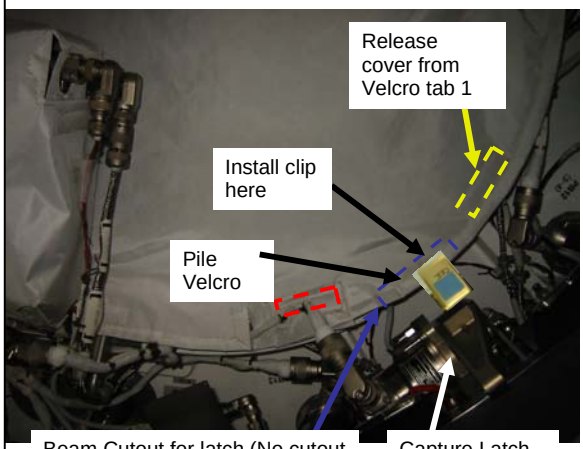
Workaround B2:



Hatch beam Cutout

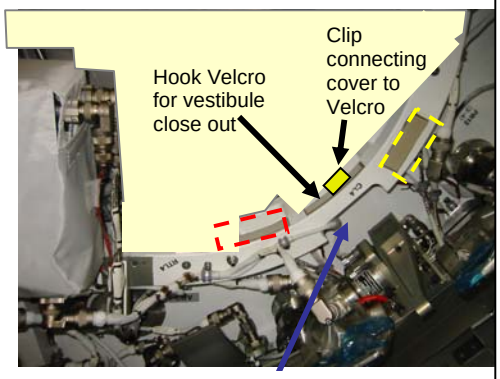


Workaround B3:

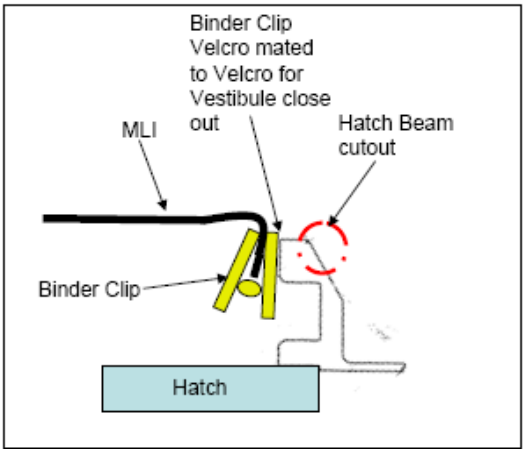


Beam Cutout for latch (No cutout for MLI)

Capture Latch



Hatch beam Cutout



17-0322 (MSG 043) 8.010 JEM ZENITH CBM CONTINGENCY POWER WORKAROUND

(ASSY OPS/1J/FIN 2/MULTI J/HC/REAL-TIME)

OBJECTIVE:

In the event of a power failure that causes a loss of one power string to the JEM Zenith CBM, provides power to the CBM CPAs fed by PDB a2 or PDB b1 from a UOP.

LOCATION:

JPM1O6

DURATION:

15 minutes

CREW:

One

TOOLS:

PEEK, 120 VDC 12 AMP 20' Extension Cable P/N SEG33112596-303

ISS IVA Toolbox:

Drawer 2:

Driver Handle, 1/4" Drive

5/32" Hex Head, 1/4" Drive

(10-50 in-lbs) Trq Wrench, 1/4" Drive

ISS Pin Kit: P/N SJG33110644-301

Page 4:

Jumper Assy, 24 in, Pin to Socket, 16 Ga (two) P/N SEG33112714-303

MATERIALS:

Kapton Tape

REFERENCED PROCEDURES:

None

1. SAFING, POWER SOURCE VERIFICATION

1.1 ✓**MCC-H** for failed power string, plug-in location for PEEK Cable:
Failed power string = _____ UOP = _____

1.2 ✓**MCC-H** to verify proper power inhibits in place

UOP 1.3 ✓POWER OUT – ◨ RESET

2. CONNECTING POWER TO CBM

JPM1O6 2.1 Remove Closeout Panel on JPM1O6-03, Fasteners (four) (Ratchet, 1/4" Drive; 5/32" Hex Head, 1/4" Drive).

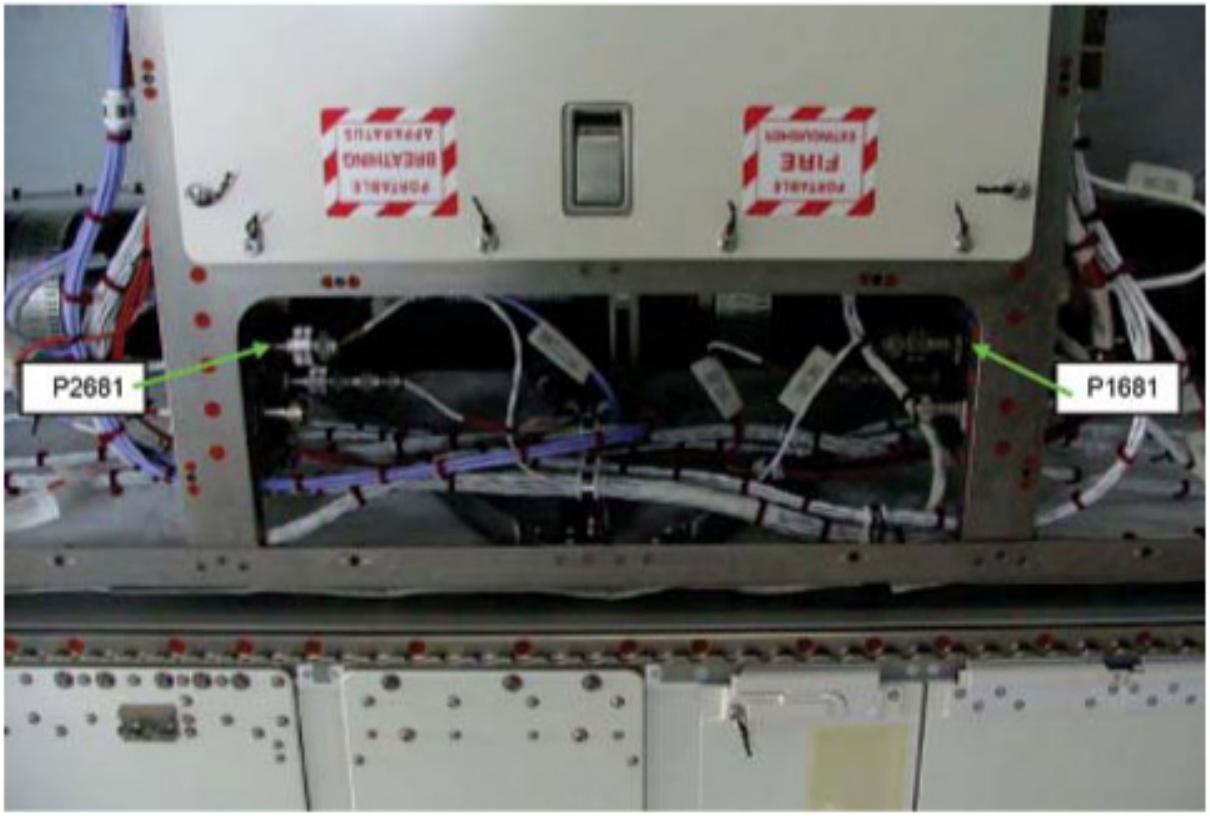


Figure 1. CBM Power Connection

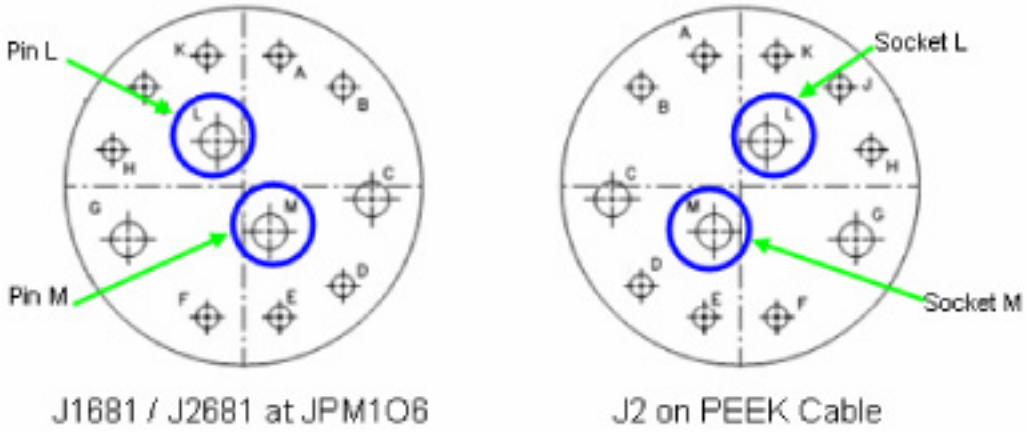


Figure 2. CBM Power and PEEK Cable Pin / Socket Arrangements

JPM1O6	2.2	If PDB a2 is failed power string
	2.2.1	P1681 on W1009 ←|→ J1681
	2.2.2	Jumper Assy, 24 in, Pin to Socket, 16 Ga →|← Socket L on PEEK, 120 VDC 12 AMP 20' Extension Cable

~

~

Jumper Assy, 24 in, Pin to Socket, 16 Ga →|← Pin L on J1681

2.2.3 Jumper Assy, 24 in, Pin to Socket, 16 Ga →|← Socket M on PEEK, 120 VDC 12 AMP 20' Extension Cable
Jumper Assy, 24 in, Pin to Socket, 16 Ga →|← Pin M on J1681
Refer to Figures 1, 2.

2.3 If PDB b1 is failed power string

2.3.1 P2681 on W1009 ←|→ J2681

2.3.2 Jumper Assy, 24 in, Pin to Socket, 16 Ga →|← Socket L on PEEK, 120 VDC 12 AMP 20' Extension Cable
Jumper Assy, 24 in, Pin to Socket, 16 Ga →|← Pin L on J2681

2.3.3 Jumper Assy, 24 in, Pin to Socket, 16 Ga →|← Socket M on PEEK, 120 VDC 12 AMP 20' Extension Cable
Jumper Assy, 24 in, Pin to Socket, 16 Ga →|← Pin M on J2681
Refer to Figures 1, 2.

2.4 Restrain connectors, jumpers with Kapton Tape, covering exposed pins, sockets, and backshell.

3. CONNECTING PEEK CABLE TO UOP
J1 on PEEK, 120 VDC 12 AMP 20' Extension Cable →|← UOP

4. APPLYING POWER TO CBM

UOP 4.1 On MCC-H GO
POWER OUT – ◨ (ENABLE)

4.2 Notify MCC-H UOP power enabled

5. POWERING OFF CBM

On MCC-H GO
UOP POWER OUT – ◨ (RESET)

6. CLOSEOUT

6.1 Disconnect PEEK, 120 VDC 12 AMP 20' Extension Cable from UOP.
Remate original JPM wire harness (P1681 or P2681).

6.2 Disconnect Jumper Assy, 24 in, Pin to Socket, 16 Ga (two) from J1681 or J2681.
Remate original JPM wire harness (P1681 or P2681).

6.3 Disconnect Jumper Assy, 24 in, Pin to Socket, 16 Ga (two) from PEEK, 120 VDC 12 AMP 20' Extension Cable.

6.4 Check for FOD within 1 m.
Reinstall Closeout Panel JPM1O6-03.
Tighten, torque fasteners (four) to 27 in-lbs [Ratchet, 1/4" Drive; (10-50 in-lbs) Trq Wrench, 1/4" Drive; 5/32" Hex Head, 1/4" Drive].

6.5 Notify MCC-H of task completion.
Stow all tools and jumpers.