STS-123 / 1J / A

FD 04 Execute Package

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Approved by FAO:

T. Melroy

Last Updated: Mar 13 2008 8:09PM GMT

JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

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1. Exercise Constraint Tables

A. The generic exercise constraints that apply to the entire docked timeframe are listed in the table below.

Exercise Constraints Table A: Entire Docked Timeframe

Exercise Constraints
RED limited to 3 sec (squats and heel raises) and 2 sec (situps) between repetitions
HC-1 limited to 3 sec (torso bending and rowing) and 2 sec (hammer throw and forearm bending) between repetitions
Use of theraband or any other exercise band while exercising on Shuttle Ergometer is prohibited, except during EVA prebreathe, and always on CEVIS
Use of ISS hard-mounted exercise equipment during 1-jet PRCS attitude control and reboost is prohibited

B. The table below summarizes the Shuttle and ISS exercise constraints that are specific for today. These constraints are also noted in your timelines for your reference.

Exercise Constraints Table B: FD04 – JLP Install, EVA1

Activity	Exercise Constraints	
	Shuttle	ISS
JLP Unberth	No exercise during SRMS maneuvers with the JLP • MNVR UNBERTH TO HOVER • MNVR TO INTERMEDIATE POSN • MNVR TO PRE-INSTALL • MNVR TO RTL POSN	No exercise during SRMS maneuvers with the JLP • MNVR UNBERTH TO HOVER • MNVR TO INTERMEDIATE POSN • MNVR TO PRE-INSTALL • MNVR TO RTL POSN
JLP Install	No exercise during CBM ops from RTLs until CBM AT ≥ 8 BOLTS	No exercise during CBM ops from RTLs until CBM AT ≥ 8 BOLTS
EVA 1	No exercise during EVA ops on the SLP	No unisolated exercise during EVA ops on the SLP
	No exercise during all structural-mounted APFR ops	IRED and HC-1 prohibited during all structural-mounted APFR ops

2. JEE Reminder

Dom, Peggy, and Leo,

This is your reminder that in the event of an emergency that drives a Joint Emergency Egress during EVA1, Leo is to remain on ISS. This will keep open the option of returning the EV crew through either the ISS or Shuttle A/L.

3. BPSMU Configuration

We've confirmed that the missing 22' & 4' BPSMU audio cables were left on the ground. This leaves you with only the Drag-Through Quick Disconnect (QD) Shuttle Half BPSMU 2 port with an ICOM audio link back to the shuttle. If you need the ISS Airlock BPSMU, swap the cable from the BPSMU 2 to the BPSMU 1 port on the "Shuttle Half" of the QD box.

The cable will need to be reconfigured back to the QD "Shuttle Half" BPSMU 2 port prior to JLP PDRS operations. This configuration allows the second station video source to be routed to the orbiter flight deck A31p.

All ISS BPSMU comm will be routed to the PLT ATU. Recommended PLT ATU settings are:

A/G 1 – Off
A/G 2 – T/R

A/A – Off

ICOM A – Off
ICOM B – T/R

4. REPLACE PAGES 2-10 AND 2-12, AND 3-32 THROUGH 3-41.

REPLANNED

No Exercise, period ! (JLP unberth/install)

No Unisolated Exercise (EVA on SLP, SPDM Asmbly)

03/13/08 13:56:14

GMT 03/13/08 (073) 12 19 20 21 22 23 03/14 01 02 03 04 05 06

MET β=15 Day 002 13 14 15 16 17 18 19 20 21 22 23 003/00

STS-123	FD04 R2	CDR GORIE	SLEEP; POST SLEEP; PMC A/G; POST SLEEP; INHBT; PAD; JLP^; CWC S/U; EXERCISE; XFER OPS; MEAL; JLP*; CWC; XFER; IMU; N2 XFER INIT; JLP UNBRTH
STS-123		PLT JOHNSON	SLEEP; SLEEP; POST SLEEP; EXERCISE; P/TV 07 S/U; CWC; TERM; P/TV 07 EVA; MEAL; P/TV 07 EVA; ♣
STS-123	M1	MS1 BEHNKEN	SLEEP; SLEEP; POST SLEEP; SSRMS MNVR EVA1; DATE; EXERCISE 14.7 rep; MEAL; CWRW; SSRMS SUPPORT; XFER OPS
STS-123		MS2 FOREMAN	SLEEP; SALOG; POST SLEEP; HYG BRK/ HATCH CLS; CAMPOUT EVA PREP; EMU; PURGE; EMU PREBREATHE; C_LK DPRS; EVA 1 (06:30); IVA SUPPORT; JLP INSTALL & SPDM ASSEMBLY
STS-123	R1	MS3 DOI	SLEEP; POST SLEEP; XFER; UPDT; MCIU*; JLP^; MKAM S/U 1; P&I; CDM S/U; EXERCISE; MEAL; JLP*; JLP UNBRTH
STS-123	EV1	MS4 LINNEHAN	SLEEP; POST SLEEP; HYG BRK/ PREBREATHE; A/L REP; 10.2 DPRS; CAMPOUT EVA PREP; EMU; PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; DEGRS; SETUP; JLP UNBRTH PREP; OTCM 2 INSTALL; OTCM 1 INSTL
EXP	EV2	FE-2 EXP16 REISMAN	SLEEP; POST SLEEP; HYG BRK/ PREBREATHE; CAMPOUT EVA PREP; EMU; PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; DEGRS; SETUP; JLP UNBRTH PREP; OTCM 2 INSTALL; OTCM 1 INSTL
EXP		ISS CDR WHITSON	SLEEP (8.5); POST SLEEP; HYG BRK/ HATCH CLS; CAMPOUT EVA PREP; EMU; PURGE; 14.7 rep EMU PREBREATHE; C_LK DPRS; RED; VONAPD; N2*; EXERCISE CEVIS; MEAL; N2 XFER INIT; EXER; CBCS; PWRUP
EXP		FE-1 MALENCHENKO	SLEEP (8.5); HAMPD; POST SLEEP; PREP WORK; БИО5; ⊕; ♦; БИО5; ИП1 MNT; VELO+RED; TVIS; MEAL; CB-B3-MNT; БСР ТМ ПО CHECK
DN	M2	FE-2 EYHARTS	SLEEP (8.5); POST SLEEP; PREP WORK; PLCK; SSRMS MNVR EVA1; TVIS; EXERCISE CEVIS; MEAL; CWRW SMPL XFER; SSRMS SUPPORT

DAY/NIGHT

ORBIT 41 42 43 44 45 46 47 48

TDRS W -171 E -46 Z -275

ORB ATT BIAS -XLV -ZVV

NOTES

⊕AIR DUCTS-SEARCH
♦AIR DUCTS-SEARCH
^PREGRAPPLE MNVR
*FILTER CK
*GRAPPLE
*XFER INIT
♣PRLA OPEN

3

No Unisolated Exercise (EVA on SLP, SPDM Asmbly)

No Exercise, period ! (JLP unberth/install)

03/13/08 13:56:14

REPLANNED

GMT 03/14/08 (074) 07 08 09 10 11 12 13 14 15 16 17 18

MET β=15 Day 003 003/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-123	FD04 R2	CDR GORIE	JLP UNBRTH; INSTL; JLP INSTL; LIMP; XFER OPS; PRE SLEEP; BRAKE; UNGRP; PRE SLEEP; PMC A/G; PRE SLEEP; SLEEP
STS-123		PLT JOHNSON	♣ P/TV 07 EVA; XFER OPS; PRLA; CLOSE; XFER OPS; XFER; BREF; PRE SLEEP; SLEEP
STS-123	M1	MS1 BEHNKEN	XFER OPS; VERIF; PRE SLEEP; CBM 1ST STG; CBM 2ND STG/ A-BOLTS; PRE SLEEP; JLP LEAK CK; PRE SLEEP; SLEEP
STS-123		MS2 FOREMAN	IVA SUPPORT; POST EVA W/H2O,METOX; BSA INIT; PRE SLEEP; SLEEP
STS-123	R1	MS3 DOI	JLP UNBRTH; INSTL; JLP INSTL; LIMP; RMS SUPPORT; PRE SLEEP; BRAKE; UNGRP; PRE SLEEP; CDM-A; CDM 1 OPS; SLEEP
STS-123	EV1	MS4 LINNEHAN	⊕ SPDM ASSY PREP; CLNUP; INGRS; PRSP; CTK; RPRS; POST EVA W/H2O,METOX; PRE SLEEP; SLEEP
EXP	EV2	FE-2 EXP16 REISMAN	⊕ SPDM ASSY PREP; CLNUP; INGRS; PRSP; CTK; RPRS; POST EVA W/H2O,METOX; PS; PMC; PRE SLEEP-ISS; SLEEP (8.5)
EXP		ISS CDR WHITSON	PRSP; CTK; RPRS; POST EVA W/H2O,METOX; EVADL; PS; JLP LEAK CK; PS-ISS; SLEEP (8.5)
EXP		FE-1 MALENCHENKO	♦ COЖ; IMS; PREP WORK; PRE SLEEP-ISS; SLEEP (8.5)
DN	M2	FE-2 EYHARTS	® SODF DEPLOY; VERIF; PREP WORK; CBM 1ST STG; CBM 2ND STG/ A-BOLTS; NOD2*; CBCS CAMRA RMV; OBSS; PGRAP; MVR; PRE SLEEP-ISS; SLEEP (8.5)

DAY/NIGHT

ORBIT 49 50 51 52 53 54 55 56

TDRS W -171 E -46 Z -275

ORB ATT BIAS -XLV -ZVV

NOTES
♣PRLA OPEN
⊕OTCM 1 INSTL
♦БСР ТМ ПО CHECK
®P/TV-GLOVE-PHOTO-S/U
*STBD HTCH LATCH

MCC BOLT 2-12

FLT PLN/123/FLIGHT

STS-123 (FD04)

GMT Date 03/13 (073) | W | TDRSE | Z | DORB | ORB | MET Day 002 | STS ATI

CDR GORIE | PLT JOHNSON | MS3 DOI | MCC | NOTES

12:00
19:00
20:00
21:00
22:00
13:00
14:00
15:00
16:00

14 41
15 42
14 43

BIAS-XLV-ZVV

SLEEP (CDR GORIE)

SLEEP (PLT JOHNSON)

SLEEP (MS3 DOI)

FD04 EZ ACTIVITES
Check TEPC Status
OCAC Filter Inspect
Hard Reboot PGSCs (Except WLES & RPOP2)

FLIGHT SLEEP LOG (ORB OPS, SDBI)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (CDR GORIE)

PRIVATE MEDICAL CONFERENCE
Perform via A/G 2

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (PLT JOHNSON)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (MS3 DOI)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (CDR GORIE)

STS-123 (FD04)

GMT Date 03/13 (073) | W | TDRSE | Z | DORB | ORB | MET Day 002 | STS ATI

MS1 BEHNKEN | MS2 FOREMAN | MS4 LINNEHAN | FE-2 EXP16 REISMAN | NOTES

12:00
13:00
14:00
15:00
16:00
19:00
20:00
21:00
22:00

14 41 15 42 1 43

BIAS-XLV-ZVV

SLEEP (MS1, MS2, MS4, FE-2)

LIQ SALIVA & LOG (ORB OPS, SDBI) (MS1, MS2)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (MS1, MS2, MS4, FE-2)

EVA SYS: 2.315 HYGIENE BREAK
Note: Start no earlier than 8:40 hrs from end of:
2.305 10.2 PSIA CAMPOUT MASK PREBREATHE
MCC-H performs Steps 1-4, 16-20 & 23 (MS4, FE-2)

EVA SYS: 2.315 HYGIENE BREAK
Steps 21-29
NOTE: MCC-H performs Step 23 (MS2)

EVA SYS: 2.320 10.2 PSIA CAMPOUT EVA PREP (MS1, MS2, MS4, FE-2)

STS-123 (FD04)

GMT Date 03/13 (073) | W | TDRSE | Z | DORB 1 2 3 4 | ORB 43 44 45 46 | MET Day 002 | STS ATI | BIAS -XLV -ZVV

MET	CDR GORIE	PLT JOHNSON	MS3 DOI	MCC	NOTES
16:00					
23:00	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
17:00	EVA1 INHIBIT PAD (EVA, TIMELINES)		TRANSFER UPDATE Ref. Transfer List & MSG 024		
	JLP GRAPPLE (PDRS, NOM JLP OPS) Steps 1-2		L17 Check MCIU filter screen		
00:00	SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Perform EQUIP PREP and WATER TRANSFER HOSE PURGE Perform CWC FILL #1 Ref. MSG 025	EXERCISE	JLP GRAPPLE (PDRS, NOM JLP OPS) Steps 1-2		UPLINK β21 + Mask Box 31, 50
			ASSY OPS: 1.104 MKAM S/U FOR JLP MONITORING Steps 1-3 In Step 1.6 use NODE2 UOP1-J4 for power to the laptop Ref. MSG 027 for Stow Locations		
18:00		P/TV07 EVA (P/TV FS, SCENES) Setup	P&I Changes to ASSY OPS: 1.106 JLP VENT FAN ACT Ref. MSG 018, update both copies of ASSY OPS proc		
			CDM S/U & BATT CH OUT (ORB OPS, CDM DTO) Attach CDM in Location 1		
01:00	EXERCISE				
19:00	TRANSFER OPS Ref. Transfer List	SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Perform FILL TERMINATION	EXERCISE		
		P/TV07 EVA (P/TV FS, SCENES)			
02:00	MEAL	MEAL	MEAL		UPLINK β0 Only Box 31,50
20:00					

STS-123 (FD04)

GMT Date 03/13 (073) | W | TDRS E | Z | DORB 1 2 3 4 | ORB 43 44 45 46 | MET Day 002 | STS ATI | BIAS -XLV -ZVV

MS1 BEHNKEN	MS2 FOREMAN	MS4 LINNEHAN	FE-2 EXP16 REISMAN	NOTES
	EVA SYS: 2.320 10.2 PSIA CAMPOUT EVA PREP	EVA SYS: 2.320 10.2 PSIA CAMPOUT EVA PREP	EVA SYS: 2.320 10.2 PSIA CAMPOUT EVA PREP	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
ROBO: 1.201 EVA 1 SETUP				
DATE/TIME SET (PHOTO/TV, 760) Perform for DCS 760 s/n 1015	EVA SYS: 1.220 EMU PURGE	EVA SYS: 1.220 EMU PURGE	EVA SYS: 1.220 EMU PURGE	
	EVA SYS: 1.225 EMU PREBREATHE	EVA SYS: 1.225 EMU PREBREATHE	EVA SYS: 1.225 EMU PREBREATHE	
EXERCISE				
	EVA SYS: CREWLOCK DEPRESS (CC)	EVA SYS: CREWLOCK DEPRESS (CC)	EVA SYS: CREWLOCK DEPRESS (CC)	
		EVA SYS: CREWLOCK POST DEPRESS (CC)	EVA SYS: CREWLOCK POST DEPRESS (CC)	
		CREWLOCK EGRESS	CREWLOCK EGRESS	
MEAL	IVA SUPPORT EVA 1	EVA 1 SORTIE SETUP	EVA 1 SORTIE SETUP	
		JLP UNBERTH PREP	JLP UNBERTH PREP	

STS-123 (FD04)

GMT Date 03/14 (074) | W | TDRS E | TDRS Z | DORB 4 5 6 | ORB 46 47 48 | MET Day 002 | STS ATI

CDR GORIE | PLT JOHNSON | MS3 DOI | MCC | NOTES

20:00

MEAL (CDR)

MEAL (PLT)

MEAL (MS3)

03:00

On MCC GO: JLP GRAPPLE (PDRS, NOM JLP OPS) Step 3

P/TV07 EVA (P/TV FS, SCENES)

On MCC GO: JLP GRAPPLE (PDRS, NOM JLP OPS) Step 3

CWC TRANSFER Transfer 1 CWC to ISS

21:00

UPLINK β21 + Mask Box 31, 50

IMU STAR OF OPPTY ALIGN (ORB OPS)

04:00

BIAS -XLV -ZVV

22:00

NO EXERCISE

05:00

JOINT OPS: 3.102 N2 XFER INIT Verify MCC-H complete with Step 2, then perform Steps 3-5.1.

23:00

06:00

On MCC GO: JLP UNBERTH (PDRS, NOM JLP OPS)

On MCC GO: JLP UNBERTH (PDRS, NOM JLP OPS)

UPLINK β21 + Mask Box 31,33,50

KU-BD STBY

JLP UNBERTH (AKA, PRLA Rel) (PDRS, NOM JLP OPS) Steps 2-5

00:00

STS-123 (FD04)

GMT Date 03/14 (074) | W E Z | DORB 4 5 6 | ORB 46 47 48 | MET Day 002 | STS ATI

MS1 BEHNKEN | MS2 FOREMAN | MS4 LINNEHAN | FE-2 EXP16 REISMAN | NOTES

20:00 — MEAL

CELL WALL/RESIST WALL SAMPLE TRANSFER
Ref. Transfer List: Item 40 & MSG 027

03:00 — ROBO: 1.202 EVA 1
Steps 1-6
Support OTCM Install

JLP UNBERTH PREP (MS4, FE-2)

NO UNISOLATED EXERCISE

21:00

04:00 — BIAS-XLV-ZVV

OTCM 2 INSTALL (MS4, FE-2)

IVA SUPPORT EVA 1

NO EXERCISE

22:00

05:00

23:00

06:00 — TRANSFER OPS
Ref. Transfer List

OTCM 1 DEPLOY (MS4, FE-2)

00:00

10

STS-123 (FD04)

GMT Date 03/14 (074) | W | TDRSE | Z | DORB | ORB | MET Day 003 | STS ATI

MET	CDR GORIE	PLT JOHNSON	MS3 DOI	MCC	NOTES
00:00	On MCC GO: JLP UNBERTH (PDRS, NOM JLP OPS)	JLP UNBERTH (AKA, PRLA Rel) (PDRS, NOM JLP OPS) Steps 2-5	On MCC GO: JLP UNBERTH (PDRS, NOM JLP OPS)		KU-BD STBY
		P/TV07 EVA (P/TV FS, SCENES)			
07:00					
	JLP INSTALL(PDRS, NOM JLP OPS)Step 1		JLP INSTALL(PDRS, NOM JLP OPS)Step 1		
01:00	JLP INSTALL (PDRS, NOM JLP OPS) Step 2		JLP INSTALL (PDRS, NOM JLP OPS) Step 2	NO EXERCISE	
		TRANSFER OPS Ref. Transfer List			
08:00	JLP INSTALL (PDRS, NOM JLP OPS)Step 3 (1st Stg Capture)		JLP INSTALL (PDRS, NOM JLP OPS)Step 3 (1st Stg Capture)		
02:00		PRLA CLOSE (ORB OPS FS, PRLA)			KU-BD STBY
	TRANSFER OPS Ref. Transfer List	TRANSFER OPS Ref. Transfer List	RMS SUPPORT		
09:00					
	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	TRANSFER BRIEF Call down status to MCC	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
03:00	JLP INSTALL (PDRS, NOM JLP OPS)Step 4 (2nd Stg Capture) JLP UNGRAPPLE (PDRS, NOM JLP OPS)		JLP INSTALL (PDRS, NOM JLP OPS)Step 4 (2nd Stg Capture) JLP UNGRAPPLE (PDRS, NOM JLP OPS)		UPLINK β21 + Mask Box 31,34,50
10:00		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
04:00					

BIAS-XLV-ZVV

DORB 7 8 9 ORB 49 50 51

11

STS-123 (FD04)

GMT Date 03/14 (074) | W E Z | DORB 7 8 9 | ORB 49 50 51 | MET Day 003 | STS ATI

MS1 BEHNKEN | MS2 FOREMAN | MS4 LINNEHAN | FE-2 EXP16 REISMAN | NOTES

00:00

TRANSFER OPS
Ref. Transfer List

OTCM 1 DEPLOY — OTCM 1 DEPLOY

07:00

SPDM ASSY PREP — SPDM ASSY PREP

S&M: 1.511 N2 CBM VERIFY PRE-MATE STATUS

IVA SUPPORT EVA 1

EVA 1 SORTIE CLEANUP — EVA 1 SORTIE CLEANUP

01:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CREWLOCK INGRESS — CREWLOCK INGRESS

NO EXERCISE

EVA SYS: PRE REPRESS (CC) — EVA SYS: PRE REPRESS (CC)

S&M: 2.505 CBM CAPTURE/ABOLT-SHUTTLE RMS
Steps 1-2
NOTE: NO EXERCISE

EVA SYS: CREWLOCK REPRESS (CC) — EVA SYS: CREWLOCK REPRESS (CC)

08:00

BIAS-XLV-ZVV

S&M: 2.505 CBM CAPTURE/ABOLT -SHUTTLE RMS
Steps 3-4
NOTE: NO EXERCISE

EVA SYS: 1.240 POST EVA
With H2O & METOX
MCC-H will perform Steps 44 & 68.
Steps 38 & 67 not req'd.
In Step 61, stow helmet light batts in BSA per STS-123 Battery Recharge Plan CC (EVA).
REF: 123 CONSUMABLES TRACKING CC (EVA)

EVA SYS: 1.240 POST EVA
With H2O & METOX
MCC-H will perform Steps 44 & 68.
Steps 38 & 67 not req'd.
In Step 61, stow helmet light batts in BSA per STS-123 Battery Recharge Plan CC (EVA).
REF: 123 CONSUMABLES TRACKING CC (EVA)

EVA SYS: 1.240 POST EVA
With H2O & METOX
MCC-H will perform Steps 44 & 68.
Steps 38 & 67 not req'd.
In Step 61, stow helmet light batts in BSA per STS-123 Battery Recharge Plan CC (EVA).
REF: 123 CONSUMABLES TRACKING CC (EVA)

09:00

02:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

03:00

EVA SYS: 1.605 BSA BATTERY RECHARGE (Init)
REF: STS-123 BATTERY RECHARGE PLAN CC & STS-123 CONSUMABLES TRACKING CC (EVA)

PS

10:00

NODE2/JLP VEST PRESS & LK CK
1. Retrieve Shuttle Multimeter from Shuttle Middeck MF28G.
2. Perform ASSY OPS: 1.100 NODE2/JLP VEST PRESS & LK CK.
3. Restow Shuttle Multimeter in Shuttle Middeck MF28G.
Ref. MSG 027 for Stow Locations

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRIVATE MEDICAL CONF - ISS

PRE SLEEP-ISS

04:00

STS-123 (FD04)

GMT Date 03/14 (074) | W | TDRS E | TDRS Z | DORB 9 | DORB 10 | DORB 11 | DORB 12 | ORB 51 | ORB 52 | ORB 53 | ORB 54 | MET Day 003 | STS ATI | BIAS -XLV -ZVV

MET	CDR GORIE	PLT JOHNSON	MS3 DOI	MCC	NOTES
04:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
	PRIVATE MEDICAL CONFERENCE Perform via A/G 2				
11:00					
05:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
12:00					
06:00			CDM ACT (ORB OPS, CDM DTO)		
13:00					
07:00	SLEEP	SLEEP	SLEEP		
14:00					
08:00					

STS-123 (FD04)

GMT Date 03/14 (074) | W | TDRS E | TDRS Z | DORB 9 | DORB 10 | DORB 11 | DORB 12 | ORB 51 | ORB 52 | ORB 53 | ORB 54 | MET Day 003 | STS ATI

MS1 BEHNKEN | MS2 FOREMAN | MS4 LINNEHAN | FE-2 EXP16 REISMAN | NOTES

04:00
05:00
06:00
07:00
08:00
11:00
12:00
13:00
14:00

BIAS -XLV -ZVV

NODE2/JLP VEST PRESS & LK CK
1. Retrieve Shuttle Multimeter from Shuttle Middeck MF28G.
2. Perform ASSY OPS: 1.100 NODE2/JLP VEST PRESS & LK CK.
3. Restow Shuttle Multimeter in Shuttle Middeck MF28G.
Ref. MSG 027 for Stow Locations

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE SLEEP-ISS

SLEEP (8.5)

SLEEP

SLEEP

SLEEP

MSG 022 - FD04 MISSION SUMMARY

Today, you will open up the JLP and add to the total square footage of ISS. The Harris County tax assessors estimate that this will increase the value of the station by $43.6 M, and the millage rates will be increased accordingly. We may have to dip into your per diem as we had not counted on the higher resulting rent for your crew. The good news is that if we add a bathroom and bamboo flooring to the JLP, we can more than double that assessed value in resale price!

YOUR CURRENT ORBIT IS: 186 X 180 NM

NOTAMS:

EDW – LAKEBED RUNWAYS RED.
NOR – LAKEBED RUNWAYS GREEN.
HAW – RWY 31 CLOSED. RWY 13 TODA 8,994'.
WAK – CLOSED. NOT USABLE.
IKF – NO AGREEMENT. NOT USABLE.
BEN – POLITICALLY NOT RECOMMENDED/NOT SUPPORTED.
ZZA – FIRST 600M (~2,000') OF RWY 30L NOT AVAILABLE. 10,200' REMAINING.

NEXT 2 PLS OPPORTUNITIES:

KSC15 ORB 47– 02/21:43 (FEW040 SCT250 VRB05)
EDW22 ORB 64– 03/23:27 (FEW150 SCT250 250/14P22)

OMS TANK FAIL CAPABILITY:

L OMS FAIL: NO R OMS FAIL: NO

LEAKING OMS PRPLT BURN:

L OMS LEAK: ALWAYS BURN RETROGRADE
R OMS LEAK: ALWAYS BURN RETROGRADE

OMS QUANTITIES(%)

L OMS OX = 33.7 R OMS OX = 32.9
FU = 33.3 FU = 32.7

BEFORE JLP DEPLOY

DELTA V AVAILABLE:

OMS	318 FPS
ARCS (TOTAL ABOVE QTY 1)	36 FPS
TOTAL IN THE AFT	354 FPS
ARCS (TOTAL ABOVE QTY 2)	66 FPS
FRCS (ABOVE QTY 1)	29 FPS

END OF PAGE 1 OF 2, MSG 022

AFT QTY 1	82 %
AFT QTY 2	44 %

AFTER JLP DEPLOY

DELTA V AVAILABLE:

OMS	338 FPS
ARCS (TOTAL ABOVE QTY 1)	39 FPS
TOTAL IN THE AFT	377 FPS
ARCS (TOTAL ABOVE QTY 2)	72 FPS
FRCS (ABOVE QTY 1)	28 FPS
AFT QTY 1	81 %
AFT QTY 2	43 %

SYSTEM	FAILURE	IMPACT	WORK AROUND
GNC	TCS temporarily dropped lock at 600 feet during Rndz.	TCS may lose lock during undock/flyaround.	None. Nominal TCS procedures will be run during undock. If TCS unexpectedly drops lock, Manual Acquisition procedure may be run.

END OF PAGE 2 OF 2, MSG 022

Good morning Takao and Bob!

Multimeter:
The ISS multimeter is not functional. As such, we are currently "No-Go" to perform the multimeter swap (you need to have a functional multimeter on STS for contingency purposes). However, Bob and Peggy need to use the STS multimeter on ISS for today's leak check. After completing the leak check, they will restow the STS multimeter in the Middeck. We'll let you know if and when you are "GO" to perform the swap.

AFD PCS:
We understand the AFD PCS (item 3) was swapped with the Columbus PCS. As such, we updated the temp stow location of item 3 to be "Columbus deployed". We'll mark it complete once we have confirmation the associated 1553 card and cables did not transfer (per the Transfer List constraint).

For STS, the Transfer List Excel file, FD04_TransferList_STS123.xls, is located on the KFX machine in **C:\OCA-up\transfer**.

For ISS, the Transfer List Excel file, FD04_TransferList_STS123.xls, is located in **K:\OCA-up\transfer**.

FD04 Choreography

- XFR UPDATE (Doi-san): Incorporate uplinked return plan in Transfer List book.
- Item 40 (Bob/Leo): Transfer CELL WALL / INTEGRATED IMMUNE 1.0 CTB to ISS during CWRW

Crewmembers Scheduled for Generic Xfer Ops

- Dom – 0:55 min
- Box – 1:05 min
- Bob – 1:20 min

Please update the Transfer List as follows:

In **LAYOUTS** tab:
Insert Page L-2

In **RESUPPLY** tab:
Make Pen and Ink change to Resupply Page 2:
Item 3: Update "Temp Stowage" to Columbus deployed
Replace Resupply Page 7 and 8
Make Pen and Ink change to Resupply Page 9:
Item 43: In PROCEDURES/Constraints/ **Comments column, strikethrough "~~and transfer to MSG rack.~~"

In **RETURN** tab:
Insert Return Pages 1 - 13

Please call us with questions.
- The Transfer Team
-

DESCENT MODULAR LOCKER LAYOUT

LW MAR 8929–320

CDR	DOMINIC L.GORIE
PLT	GREGORY H. JOHNSON
M/S #1	ROBERT L. BEHNKEN
M/S #2	MICHAEL J FOREMAN
M/S #3	TAKAO DOI (JAXA)
M/S #4	RICHARD M. LINNEHAN
M/S #5	(UP) GARRETT REISMAN
M/S #5	(DOWN) LEOPOLD EYHARTS

LEADER:	DANIEL CULPS
DATE:	3–13–08
LAUNCH:	03–11–08
FLIGHT:	STS–123/1J/A/JEM
VEHICLE:	OV–105
CREW:	7 PERSON 15+1+2 DAYS
RQMTS:	SRMS, ERGOMETER, SORG, NO RCRS, SLEEPING BAGS

PANTRY FOOD 1622 –308 | MF57A 1622 –308 PANTRY FOOD | PANTRY FOOD 1622 –305

ML60B 6013 –309 — PRIME C/L CAM GFE TV CONTROL

ML60E 0633 –301 — PGSC/ PGSC ACCESS ITEM 611

ML60M 6014 –312 — B/U C/L CAM ULTRA SONIC LEAK DETECTOR

VOL B 7436 –313

VOL 3B 7425 –320 (MA73J) — QUICK DON MASKS (3) CABIN AIR CLEANER/ SPOTLIGHT PD100 CC/FLASH/ LCD MON DCS 760 400MM LENS

MIDDECK FORWARD

MF14E 2760 –306 — H20 SAMPLES
MF28E 5452 –327
MF43E 0616 –302 — COLDBAG
MF57E
MF71E 7463 –303 — MERLIN WAICO
MF14G 2761 –308
6300 –345 MF28G 6250 –353 — IFM TOOLS MULTIMETER
MF43G 7194 –301
MF57G 5473 –305
MF71G 6697 –327
MF14H 2763 –304
MF28H 6231 –346 — POST INSERTION ALTIMETER
MF43H 3005 –304
MF57H 1904 –307
MF71H 1903 –305
MF14K 2764 –306
MF28K 2767 –304
RAM Saliva Assy GAPS (4) Blood Sample PCMCIA WAICO Tape — MF43K 6291 –310 — GSC (1) 3DPCU IMAK
MF57K 0627 –301 — CREW FEET
MF71K 0628 –302 — GAPS (12)
MF14M 2765 –304
MF28M 2768 –303
MF43M 6299 –318
5962 –303 MF57M 6269 –307
MF71M 0629 –301 — COLDBAG
6256–303
MCIU
PDI
MF14O 2766 –305
MF28O 2769 –309
MF71O 3006 –304

MIDDECK AFT

MA9D/F 9882 –303 — SPARE DTV HDW
MA16D 8719 305
MA16F 8047 –304
MA9G 8965 –308
MA16G 8737 –307 — RCC NOAX DOUBLE COLD BAG
MA9J 0634 –303 — PCS A31P LAPTOP CD CARRYING CASE PWR SUPPLY
MA16J 8723 –302
MA9L 0631 –302
MA16L 1908 –309
MA9N 7432 –326 — SOFT STWG BAGS
PHK'S (6) 4980–309
CCK/LT STICKS 8071–317
RSTRNTS/ FIBERSCOPE RE-ENTRY 8070–302
MA16N 9014 –308

A16 8706 –313 — 35 MM CAMERA BAG PILOT PGSC DESK BRKTS(3)

A17 7424 –304 — CC BAG #1 DTV CAM BAG QUICK DON MASKS (4) HATCH TOOL

VOL D 7481 –301 (MD52C) — RCC TOOLS

VOLUME F 1403 –306 (MD76M) — WET TRASH

VOLUME G 1800 –346 (MD80R) — CONT UCDs WASTE MGMT

VOLUME H 8068 –310 (MD23R) — EVA ACCESS (INBD)
EVA ACCESS (OBD) 8065 –308 — HIGH TORQUE TOOLS

4575 –314 WMC 0914 –332 (MA82H) — TOWELS AND RESUPPLY ITEMS WMC DISPENSER 1st DAY CLOTH 1641–330

EXT AIRLOCK
5557 –319 (STBD) 2–EMUs 5555 –320 (PORT)
RETRACT EQUIP TETHS (17) Bag #604 LiOH (3) 0583 –301

MD CEIL 0617 –302 (PORT 1) — A
BAG #407
Bag #405
BAG #400
BAG #404
BAG #406

MD CEIL 0618 –302 (PORT 2) — D
Bag #408 CDMK
BAg #409 RPCM
Bag #410 IntegratedSaliva Kit
Item #610

MD CEIL 0615 –301 (STBD 1) — G
Bag #603
Item 607 (Brief/ Waste Assy)

MD CEIL 0636 –301 (STBD 2) — H
PHASE IV GLOVES
CLPA Box
RSK Foam
Aces Access

MD FLOOR 0613 –303 (PORT 2) — E
CLOTHING BAG (4)
HYGIENE
Bag #605
BAg #606

MD FLOOR 6665 –342 (PORT 1) — B
CDRA

MD FLOOR 0614 –302 (STBD 2) — F
SILVER BIOCIDE SYRINGE KIT
Item 609 (Sample Purge Kit)
CLOTHING BAG (2)
MINERAL KIT
PURGE KIT ASSY
NADA CHAIR (2)
OCA

MD FLOOR 0582 –302 (STBD 1) — C
DIDB'S
LCVG (2)
EMU BATTERY
LOWER ARM/THIGH BRIEF/LEG ASSY
PHASE VI GLOVE (4)

29 LIOH + 1 ATCO STOWED IN LIOH BOX
2 INSTLD
6 G–SUITS
(7435–315)

C/D JSC (2162–301)
P/D JSC (2159–301)
C/D KSC (2164–301)
P/D KSC (2163–301)
ISS LABEL (7493)
CEIT KIT SJD33112156–302

WINDOW SHADE BAG – (5548–347)
WINDOW SHADES
IFM CABLES & HOSES (4259–343)
CAMERA SHROUDS
FILM CHG BAG

L10A1: AVIU(6686–331)
L10A2: DTV MUX
L10A3: DTV/ VTR/VIP
L11A1: PDIP 2
L11:A2/A3: OIU 1/2
L12A1: SSP 1
L12A2: SSP 2
L12A3: PDIP
R12A1: VPU
R12A2: OPP

CTB	HLF	SGL
LAUNCH	TBD	TBD
RETURN	TBD	TBD

✳ NOT APPROVED
● L–24 LATE LOAD
⊠ SWAP
⊗ TRANSFER HARDWARE
CTB CARGO TRANSFER BAG
HCTB HALF CARGO TRANSFER BAG

NOTE: LOCKER LAYOUTS ARE FOR REFERENCE ONLY & ARE NOT RELEASED DWGS. FOR RELEASED DRAWING, PLEASE REFER TO THE CREW COMPARTMENT CONFIGURATION DRAWING FOR THIS FLIGHT (SGD32104446)

DWG NO. SGD32104446

CCFE: TRACY HUNT (281) 483–3063

/USR/DWGS/LOCKER/STS123

STS-123/1JA Resupply Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
	☑	3		32	EMU 1 [s/n 3004 (LN~~M~~)]	1	STS EXT A/L	ISS A/L		307.43	**Configured on FD02 per EVA PREP FOR XFER and transferred on FD03 per PST DK EVA XFER/RCNFG.
	☑	3		33	EMU 2 [s/n 3003 (FM)]	1	STS EXT A/L	ISS A/L		303.90	**Configured on FD02 per EVA PREP FOR XFER and transferred on FD03 per PST DK EVA XFER/RCNFG.
	☑	3		34	EVA~~EMU~~ Systems Transfer Bag	1 mesh bag	MDDK	ISS A/L		42.00	**Configured on FD02 per EVA PREP FOR XFER and transferred on FD03 per PST DK EVA XFER/RCNFG.
	☑	3		35	EVA 1 Task Transfer Bag	1 mesh bag	MDDK	ISS A/L		22.83	**Configured on FD02 per EVA PREP FOR XFER and transferred on FD03 per PST DK EVA XFER/RCNFG.
	☑	3		36	EVA 2/3 Task Transfer Bag	1 mesh bag	MDDK	ISS A/L		13.20	**Configured on FD02 per EVA PREP FOR XFER and transferred on FD03 per PST DK EVA XFER/RCNFG.
X				37	EVA 4 Task Transfer Bag	1 mesh bag	MDDK	ISS A/L		5.60	**Configured ~~on FD02 per EVA PREP FOR XFER~~ and transferred on FD10 ~~03~~ per T-RAD IV PREP ~~PST DK EVA XFER/RCNFG~~.
				38	Large ORU Transfer Bag [OBSS hardware]	1	ISS A/L	MDDK	ISS A/L	141.21	**Configured and transferred on FD12 per OBSS KAU ASSY. **Bag is from ISS and is configured on the Shuttle before returning to ISS for EVA use

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Resupply Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
X				39	Multimeter [new] [s/n 1013]	1	MF28G in IFM Tools Stowage Tray (in Multimeter Kit)		NOD1O4_D1 {0.5 CTB s/n 1202 (in Multimeter Kit s/n 1017)}	1.35	**On FD04, this multimeter will be temporarily taken to ISS for the JLP LEAK CK. Ensure it is brought back to STS after the activity.** **Do not transfer kit or leads.** **After MCC "GO", ~~After FD04 JLP LEAK CK,~~ remove shuttle multimeter from Multimeter/Temp Probe Kit (p/n 10118-10018-04) and swap with returning multimeter. Ref item 718.
				40	CELL WALL / INTEGRATED IMMUNE	1.0 CTB	MF43E		LAB1O3_D2	29.33	**On FD04, transfer per CWRW.**
				41	12 x 12 ziplock	1 ziplock	MF43K (in lid of 0.5 CTB, s/n 1327)		LAB1P2_J1	3.26	**Transfer FD05 during CSI XFER.** **Retrieve this 12 x 12 ziplock from lid of CTB in MF43K. Pack ziplock with items 41.1 - 41.3.
				41.1	COMPACT FLASH CARDS SEED RETAINER	1 ziplock	MF43K (in 0.5 CTB, s/n 1327)		LAB1P2_J1 (in ziplock)	in above	**Transfer FD05 during CSI XFER.** **Before transfer, pack this item inside 12x12 ziplock. Ref item 41.
				41.2	PETRI DISH CSI2-A411-2	1 ziplock	MF43K (in 0.5 CTB, s/n 1327)		LAB1P2_J1 (in ziplock)	in above	**Transfer FD05 during CSI XFER.** **Before transfer, pack this item inside 12x12 ziplock. Ref item 41.
				41.3	SILICATE GARDEN HAB CSI-A305	1 ziplock	MF43K (in 0.5 CTB, s/n 1327)		LAB1P2_J1 (in ziplock)	in above	**Transfer FD05 during CSI XFER.** **Before transfer, pack this item inside 12x12 ziplock. Ref item 41.

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
			Middeck Return								
			Prepacked Bags/Items								
				400	Return Bag 400	0.5 CTB	NOD2P2		MD CEIL PORT 1 (Bag A)	14.51	
				401	Return Item 401 [food containers]	1 bundle of 6	NOD2P2		Empty Food Tray (as available)	13.20	**Stow in an empty food tray when available. **Food Trays are located: MF14E, MF14G, MF14H, MF14K, MF14M, MF14O, MF28K, MF28M, MF28O. **RECORD location _____. Report to MCC.
				402	Return Item 402 [food containers]	1 bundle of 6	NOD2P2		Empty Food Tray (as available)	13.20	**Stow in an empty food tray when available. **Food Trays are located: MF14E, MF14G, MF14H, MF14K, MF14M, MF14O, MF28K, MF28M, MF28O. **RECORD location _____. Report to MCC.
				403	Return Item 403 [food containers]	1 bundle of 6	NOD2P2		Empty Food Tray (as available)	13.20	**Stow in an empty food tray when available. **Food Trays are located: MF14E, MF14G, MF14H, MF14K, MF14M, MF14O, MF28K, MF28M, MF28O. **RECORD location _____. Report to MCC.

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				404	Return Bag 404	0.5 CTB	NOD2P2		MD CEIL PORT 1 (Bag A)	9.46	
				405	Return Bag 405	1.0 CTB	NOD2P2		MD CEIL PORT 1 (Bag A)	26.05	
				406	Return Bag 406	1.0 CTB	NOD2P2		MD CEIL PORT 1 (Bag A)	40.02	
				407	Return Bag 407	1.0 CTB	NOD2P2		MD CEIL PORT 1 (Bag A)	17.65	
				408	Return Bag 408 [Photo/TV Bag]	0.5 CTB	NOD2P2		MD CEIL PORT 2 (Bag D)	22.12	
				409	Return Bag 409	0.5 CTB	NOD2P2		MD CEIL PORT 2 (Bag D)	28.70	
				410	Return Bag 410	1.0 CTB	NOD2P2		MD CEIL PORT 2 (Bag D)	31.41	

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				600	Return Item 600 [A31p LAPTOP] [s/n 1028]	1	NOD2P2 (in 1.0 CTB, s/n 1372)		MA9J	7.94	**Remove from 1.0 CTB at NOD2P2 and stow in MA9J foam cut out where new laptop launched.
				601	Return Item 601 [120V DC POWER SUPPLY] [Blue Brick] [s/n 1007]	1	NOD2P2 (in 1.0 CTB, s/n 1372)		MA9J	4.41	**Remove from 1.0 CTB at NOD2P2 and stow in MA9J foam cut out where new power supply launched.
				602	Return Item 602 [1E CD STOWAGE CASE ASSEMBLY] [s/n 1019]	1	NOD2P2 (in 1.0 CTB, s/n 1372)		MA9J	3.00	**Remove from 1.0 CTB at NOD2P2 and stow in foam cut out where new CD Case launched. **Ensure item 5 is complete before transferring this case.
				603	Return Bag 603	1.0 CTB	NOD2P2		MD CEIL STBD 1 (Bag G)	69.08	**Do not transfer until after FD10 activity T-RAD IV PREP when Bag G will be empty.** **Reconfigure foam in Bag G for return per uplinked 5MLE bag drawing.
				604	Return Bag 604	1.0 CTB	NOD2P2		MD EXT A/L FLOOR	69.54	

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				605	Return Bag 605 [Crew Preference Whitson]	0.5 CTB	Crew Pref		MD FLOOR PORT 2 (Bag E)	11.00	
				606	Return Bag 606 [Crew Preference Eyharts]	0.5 CTB	Crew Pref		MD FLOOR PORT 2 (Bag E)	11.00	**Verify Leo's dosimeters are stowed in this CTB. Ref items 606.1 - 606.3.
				606.1	CPD [Crew Passive Dosimeter] [esa DLR EuCPD-FM-EVA-023]	1	Crew Pref (in 0.5 CTB, Return Bag 606)		MD FLOOR PORT 2 (Bag E) (in 0.5 CTB, Return Bag 606)	0.02	**Leo's.
				606.2	CPD [Crew Passive Dosimeter] [esa DLR EuCPD-FM-EVA-024]	1	Crew Pref (in 0.5 CTB, Return Bag 606)		MD FLOOR PORT 2 (Bag E) (in 0.5 CTB, Return Bag 606)	0.02	**Leo's.
				606.3	CPD [Crew Passive Dosimeter] [esa DLR EuCPD-FM-Ref-025]	1	Crew Pref (in 0.5 CTB, Return Bag 606)		MD FLOOR PORT 2 (Bag E) (in 0.5 CTB, Return Bag 606)	0.02	**Leo's.

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				607	Return Item 607 [BRIEF/ WAIST ASSEMBLY]	1	NOD2P2		MD CEIL STBD 1 (Bag G)	36.50	**Do not transfer until after FD10 activity T-RAD IV PREP when Bag G will be empty.** **Reconfigure foam in Bag G for return per uplinked 5MLE bag drawing.
				608	Return Item 608 [CDRA Bed]	1 jettison stowage bag	NOD2P2		MD FLOOR PORT 1 (Bag B)	94.00	
				609	Return Item 609 [Sample/Purge Kit]	1	NOD2P2 (in 1.0 CTB, s/n 1372)		MD FLOOR PORT 2 (Bag F)	2.89	**Remove from 1.0 CTB at NOD2P2 and stow in Bag F.
				610	Return Item 610 [Flexible Ventilation Duct 13']	1	NOD2P2		MD CEIL PORT 2 (Bag D)	6.60	
				611	Return Item 611 [A31p LAPTOP] [s/n 1087]	1	NOD2P2 (in 1.0 CTB, s/n 1372)		LW MAR	7.94	**Remove from 1.0 CTB at NOD2P2 and stow in LW MAR.

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
			Non- Prepacked Bags/Items								
				700	3DPCU MAIN UNIT KIT [p/n 3DPC-4-01]	1	FGB_417		MF43K	13.29	**Return stowage orientation: Return arrow MUST point down (towards deck). Launch arrow must point laterally (starboard or port), not aft or fwd.** **Transfer FD06 during 3DPCU XFER.** **Reference the Transfer List, REFERENCE tab, page REF-1 for picture of return orientation.
				701	CDMK [CARBON DIOXIDE MONITOR KIT] [s/n 1008]	1	used for JLP ingress		MD CEIL PORT 2 (Bag D)	5.70	**Transfer after JLP INGRESS on FD05. **CDM s/n 1013 used for ingress then packed in this kit per Stowage Note.

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				702	CLPA Box	1	temp stowed NODE 1		MD CEIL STBD 2 (Bag H)	26.40	**On FD09 during CLPA PACK, pack this box with items 702.1 - 702.4. If additional open volume exists, pack items 702.5 - 702.9 as possible.** **Fill box as much as possible without crushing blankets.** **In order to stow this in Bag H, you must remove Leo's seat rail and head rest from the bottom of Bag H and temp stow them in the MDDK. These will be installed for entry.
				702.1	EP1 Blanket	1	ISS External	NODE 1 in mesh bag	MD CEIL STBD 2 (Bag H) (in CLPA Box)	1.80	**Removed EVA 2 or 3. **Fold blanket as small as possible.**
				702.2	EP2 Blanket	1	ISS External	NODE 1 in mesh bag	MD CEIL STBD 2 (Bag H) (in CLPA Box)	1.58	**Removed EVA 2 or 3. **Fold blanket as small as possible.**
				702.3	CLA Blanket	1	ISS External	NODE 1 in mesh bag	MD CEIL STBD 2 (Bag H) (in CLPA Box)	0.68	**Removed EVA 2 or 3. **Fold blanket as small as possible.**

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				702.4	SJEU Covers	7	ISS External	NODE 1 in mesh bag	MD CEIL STBD 2 (Bag H) (in CLPA Box)	3.50	**Removed EVA 1 - 3. **Fold blanket as small as possible.**
				702.5	CLPA Blanket [p/n 51617-0053-1]	1	TBD	TBD	TBD	1.86	EVA is re-evaluating return of this item.
				702.6	SJEU Covers	7	ISS External	NODE 1 in mesh bag	MD CEIL STBD 2 (Bag H) (in CLPA Box)	3.50	**After packing items 702.1 - 702.4, pack additional covers in the CLPA box if possible. Ref item 702. **If covers do not fit in CLPA box, stow them on ISS in an empty CTB at NOD1P2. **RECORD s/n of CTB_____. Report to MCC. **Removed EVA 1 - 3.

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STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				702.7	THA Inner Retainer	1	ISS External	NODE 1 in mesh bag	MD CEIL STBD 2 (Bag H) (in CLPA Box)	0.37	**After packing items702.1 - 702.4, pack this in the CLPA box if possible. Ref item 702. **If item does not fit in CLPA box, stow on ISS in an empty CTB at NOD1P2. **RECORD s/n of CTB_____. Report to MCC. **Removed EVA 3.
				702.8	THA Housing Retainer [Horse Shoe]	1	ISS External	NODE 1 in mesh bag	MD CEIL STBD 2 (Bag H) (in CLPA Box)	0.23	**After packing items 702.1 - 702.4, pack this in the CLPA box if possible. Ref item 702. **If item does not fit in CLPA box, stow on ISS in an empty CTB at NOD1P2. **RECORD s/n of CTB_____. Report to MCC. **Removed EVA 3.
				702.9	Socket Restraint Plate	1	ISS External	NODE 1 in mesh bag	MD CEIL STBD 2 (Bag H) (in CLPA Box)	0.50	**After packing items 702.1 - 702.4, pack this in the CLPA box if possible. Ref item 702. **If item does not fit in CLPA box, stow on ISS in an empty CTB at NOD1P2. **RECORD s/n of CTB_____. Report to MCC. **Removed EVA 3.

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				703	Double Coldbag [s/n 1004]	1	LAB1O4 rack front		MF43E	46.14	**Do not stow near heat source. Double Coldbag must remain protected due to kickload constraints.** **ISS crew will pack for return and transfer to STS on hatch closure day per timelined activity DCB PACK.
				704	Double Coldbag [s/n 1005]	1	LAB1O4 rack front		MF71M	45.41	**Do not stow near heat source. Double Coldbag must remain protected due to kickload constraints.** **ISS crew will pack for return and transfer to STS on hatch closure day per timelined activity DCB PACK.
				705	EMU 1 [s/n 3006 (LN)]	1	STS EXT A/L	ISS A/L	STS EXT A/L	307.43	**Transferred to Shuttle per EVA XFER TO STS.
				706	EMU 2 [s/n 3008 (FM)]	1	STS EXT A/L	ISS A/L	STS EXT A/L	303.90	**Transferred to Shuttle per EVA XFER TO STS.
				707	ECOK (BE)	1 mesh bag	MDDK	ISS A/L	MDDK	18.14	**Transferred to Shuttle per EVA XFER TO STS.
				708	ECOK (FM)	1 mesh bag	MDDK	ISS A/L	MDDK	11.57	**Transferred to Shuttle per EVA XFER TO STS.

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				709	ECOK (LN)	1 mesh bag	MDDK	ISS A/L	MDDK	11.67	**Transferred to Shuttle per EVA XFER TO STS.
				710	EVA Systems Transfer Bag	1 mesh bag	MDDK	ISS A/L	MDDK	44.20	**Transferred to Shuttle per EVA XFER TO STS.
				711	EVA 1 Task Transfer Bag	1 mesh bag	MDDK	ISS A/L	MDDK	37.70	**Transferred to Shuttle per EVA XFER TO STS.
				712	GSC	1	used for JLP ingress		MF43K	8.80	**Transfer after JLP INGRESS on FD05. **Wrap GSC in towel or washcloth before stowing for return.
	☑	0		713	Item deleted						
	☑	0		714	Item deleted						
	☑	0		715	Item deleted						
				716	ISS Medical Accessory Kit [IMAK, s/n 1039]	1	Crew Pref		MF43K	3.31	**Ask Leo for location of his kit.
				717	LiOH [Decal #'s STS-118 #32-46 & 48]	1 mesh bag	NOD2P2		MD LiOH Box	144.00	**Swapped with resupply LiOH per item 26. **Once emptied, stow mesh bag in NOD1D4_A1.

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				718	Multimeter [Old] [s/n 1006]	1	LAB Deployed		MF28G in IFM Tools Stowage Tray (in Multimeter Kit)	1.35	**Do not transfer kit or leads.** **Swapped with resupply multimeter per item 39.
				719	Radiation Area Monitor [RAM] [blue]	1 ziplock	ISS Deployed		MF43K (in 0.5 CTB, s/n 1327)	0.36	**RAMs removed FD06 during timelined activity RAM INSTL.
				720	RPCM-E TYPE 5 [s/n X800390]	1	ISS External	ISS A/L (in Crewlock Bag)	MD CEIL PORT 2 (Bag D)	9.62	**Removed EVA 4. **Wrap RPCM in towel or clothing before stowing for return.
				721	Integrated Immune Saliva Collection Kit [s/n 1006]	1	in-use by Leo		MD CEIL PORT 2 (Bag D)	1.5	**On hatch closure day, transfer FE-2 DN kit after saliva collection activities.**
				722	Saliva Collection Pouch Assy [Labeled Used]	2	in-use by Garrett and Peggy		MF43K (in 0.5 CTB, s/n 1327)	0.08	**On hatch closure day, transfer FE-2 EXP 16 & ISS CDR used saliva pouch assy after saliva collection activities.**
				723	Blood Sample Sleeve	1	in-use by Garrett		MF43K (in 0.5 CTB, s/n 1327)	0.11	**On hatch closure day, transfer FE-2 EXP 16 sleeve for return after blood collection activities.**

[ ] - notes included by transfer team, - not on actual label

STS-123/1JA Return Transfer List

CHNG	☑	FD	Initials	Item #	Item Name	Qty	Initial Stowage	Temp Stowage	Stowage at Undock	Wt (lbs)	PROCEDURES/**Constraints**/ **Comments
				724	Silver Biocide Syringe Kit [s/n 1006]	1	NOD2P2 (In M-02 Bag, s/n 1026)		MD FLOOR STBD 2 (Bag F)	1.34	**Used for CWC fills, ref H2O Ops cue card. **Do not transfer Silver Biocide kit s/n 1007.
				725	TVIS PCMCIA Card [s/n 1028] [Leo's]	1	in-use by Leo		MF43K (in 0.5 CTB, s/n 1327)	0.28	**Pack FD14 after Leo's last TVIS exercise.
				726	WAICO Samples	4 containers	COL1A2 (BIOLAB)		MF71E (MERLIN)	14.55	**Transfer FD14 per MRLN WAICO XFER/STOW.**
				727	WAICO Video Tape [s/n 001]	1	COL1A2 (BIOLAB VTR)		MF43K (in 0.5 CTB, s/n 1327)	0.15	**Tape is ready to be removed from the VTR (video tape recorder) and transferred to STS.

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END OF PAGE 17 OF 17, MSG 024 (16-1323)

[ ] - notes included by transfer team, - not on actual label

Contents:

Timeline Procedures:
JLP-MKAM-SETUP 1
NODE2-JLP-LEAK CK
CBCS-CAMERA-REMOVE
CW/RW-MELFI KFT INS

Tasklist Procedures:
HRF RACK ACOUSTIC MOVE
MELFI-VEL STRAP-RMV
MSG-BATTERY-REMOVE

Timeline Procedures:

JLP-MKAM-SETUP 1						
1.104 MKAM SETUP FOR JLP MONITORING						
Type: Standard			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**NOD2D2** 1.0 CTB: MKAK, S/N 1152, B/C 004146J	JAXA PCMCIA Card	JX-ESPC-100143-01	-	RS422SY1N	**Keep** Ziplock and Bubble wrap.
2		MKAM RS422 Cable 1 [QTY: 2]	80A89023-101	001 002	MKARS421N MKARS422N	
3		MKAM RS422 Cable 2	80A89024-101	-	MKARS423N	
4		SLT (A31p Laptop)	SEG33115360-303	1093	POC20669J	**STOW** foam in jettison stowage bag at NOD1P4 for future Progress disposal.
5		A31p 120VDC Power Supply	SEG33116412-303	1306	POC10313J	**STOW** foam in jettison stowage bag at NOD1P4 for future Progress disposal.
6		Enhanced A31p 16V DC Power Cable	SEG33116459-301	1025	POC10192J	
7		US DC Power & 1553 Cable (UOP to Power Supply)	SEZ39129268-303	6008	00064623J	
8	**LAB 1 Deployed**	Static Wrist Tether	WS-AM6-4MM	-	-	

NODE2-JLP-LEAK CK						
1.100 NODE 2/JLP VESTIBULE PRESSURIZATION AND LEAK CHECK						
Type: Standard			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**LAB1O5_F2** 0.5 CTB: Acoustic Countermeasures, s/n 1131, b/c 010492J	Generic Earplug Assembly	SEG46116002-301	-	-	
2	**NOD1O4_E1** 0.5 CTB: Generic/Strange Tool Bag, B/C 006653J	MPEV INTERNAL SAMPLING ADAPTER	97M55830-1	2	000002M	
3	**NOD1P4_D**	VAJ-78-1 5ft	683-17111-1	-	00002677J	
4	**NOD1O4_D1** 0.5 CTB, S/N 1202, B/C 006651J	ISA Scopemeter Pressure Probe	1525,760MMHGA/30 PSIA	100023019389	000008M	
5	**NOD2S5_A1**	Headset Extension Cable	683-28015-3	000005	00085710J	This item is inside a ziplock bag.
6	**MF28G** IFM Tools Locker	Multimeter	-	1013	-	**RETURN** to Shuttle after completion of activity.

CBCS-CAMERA-REMOVE						
1.403 CBCS INSTALLATION/REMOVAL - GENERIC						
Type: Restow			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**NOD1S4_A2** 1.0 CTB: CBCS Prime Kit, S/N 1030, B/C 002915J or 1.0 CTB: CBCS Backup Kit, S/N 1049, B/C 002934J	Camera Bag	SEG33112759-301	1001	00006977J	For all CBCS components, stow hardware in space available in Prime and Backup kits. CBCS kits will be audited during 1JA stage.
2		CBCS CAMERA ASSEMBLY	SEG33112576-301	1001	00006515J	
3		Ku-Band Power Supply	SEG46116711-302	1004	00053934J	
4		LED CONTROL UNIT	SEG33112643-301	1001	00006519J	
5		VIDEO INTERFACE UNIT	SEG33112646-301	1003	00006522J	
6		CBCS CAMERA CABLE	SEG33112641-301	1002	00006513J	
7		CBCS ELECTRONICS CABLE	SEG33112638-301	1002	00006503J	
8		CBCS Electronics Extension Cable	SEG33112639-301	1002	00006506J	
9		UOP Power PSA Cable, 120VDC	SEG46116745-301	1008	00017614J	

CW/RW-MELFI KFT INS						
2.001 CELL/WALL RESIST WALL KFT INITIAL MELFI INSERT						
Type: Standard			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**MF43E** 1.0 CTB S/N 1182, B/C 006678J	Cell Wall Resist Wall KFT RNALater Kit	1023-M-1120-00	-	00088259E	
2		KFT RNALater [8]	1023-M-1121-00	-	00088261E-00088268E	
3		KFT RNALater Spare [1]	1023-M-1122-00	-	00088272E	
4		Cell Wall Resist Wall KFT Formaldehyde Kit	1023-M-1130-00	-	00088260E	
5		KFT Formaldehyde [2]	1023-M-1131-00	FM96 FM100	00088269E, 00088270E	
6		KFT Formaldehyde Spare [1]	1023-M-1132-00	-	00088271E	
7	**LAB1O4_B1**	Dewar ASE Pouch	03298	03J	MEFDAP03J	
8		White Gloves	03291-1	any	any	
Type: Restow			IMS Plan: No			
9	**LAB1O3_D2** 1.0 CTB S/N 1182, B/C 006678J	Cell Wall Resist Wall KFT RNALater Kit	1023-M-1120-00	-	00088259E	EMPTY
10		Cell Wall Resist Wall KFT Formaldehyde Kit	1023-M-1130-00	-	00088260E	EMPTY
11	**LAB1O4 Per Execution Note**	KFT RNALater [8]	1023-M-1121-00	-	00088261E-00088268E	
12		KFT RNALater Spare [1]	1023-M-1122-00	-	00088272E	
13		KFT Formaldehyde [2]	1023-M-1131-00	FM96 FM100	00088269E, 00088270E	
14		KFT Formaldehyde Spare [1]	1023-M-1132-00	-	00088271E	

Tasklist Procedures:

HRF RACK ACOUSTIC MOVE						
2.026 HRF Rack Acoustic Closeout Placement and Drawer Modifications						
Type: Standard			**IMS Plan: No**			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**Crew Preference**	Cable Tie [6]	-	-	-	
2	**LAB1P4_J2**	HRF ISIS Holder	SDG46118532-301	-	-	
3	**LAB1S2_C2**	HRF CSD Holder	SDG46118533-301	-	-	
4	**LAB1S2_K1**	HRF Rack Acoustic Closeout	SEG46118506-301	-	-	
5		HRF Workstation 2 Closeout	SEG46118506-303	-	-	

MELFI-VEL STRAP-RMV						
4.008 MELFI REMOVAL OF VELCRO STRAPS FROM DEWARS						
Type: Standard			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**Crew Preference**	12 X 12 ziplock bag	-	-	-	
2	**LAB1O4_B1**	WHITE GLOVES	03291-1	any	any	
Type: Restow			IMS Plan: No			
3	**Dry Trash**	**Velcro straps**	-	-	-	

MSG-BATTERY-REMOVE						
4.036 MSG VIDEO RECORDER BATTERY REMOVAL						
Type: Standard			**IMS Plan: No**			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**NOD1O4_C1** Ziplock Pantry (a.k.a. Large Ziplock)	6x6 Ziplock Bag [6]	-	-	-	
2		12x12 Ziplock Bag	-	-	-	
3	**COL1O4_C1** 1.0 CTB Labeled MSG HARDWARE 2 S/N 1317 B/C 010653J	MSG 8MM VIDEO RECORDER	7009.80.AE	01-474	00MSG003M	
4		MSG DIGITAL VIDEO RECORDER	7009.80.AD	01-472	00MSG004M	
Type: Restow			**IMS Plan: No**			
5	**COL1O4_A1** 1.0 CTB MSG Hardware S/N 1323 B/C 010659J	12x12 Ziplock Bag Labeled " VaLi Batteries Return to MSFC"	-	-	-	
6		VaLi Batteries (6 Used)	-	-	-	

16-1322A (MSG 026A) - FD04 EVA Deltas

EVA 1 is here!! The divers are promising a great weighout and Sherwin is playing the Telecasters. Just a few minor comments for today.

1. As you know the airlock hatch thermal cover "potato chips" in shape. Nothing extra is required when closing the thermal cover after egress. However, when you close it during ingress, the following technique can be used to reduce the gapping if it is greater than 3" on the sides:

> Use one hand to hold the Velcro strap securely attached, and the other hand to apply pressure to the center of the thermal cover. This pressure and/or tapping should reduce the perimeter gap. We don't expect it to be perfect.

2. Following EVAs 2, and 3, the SPDM covers should be placed in the “EVA 1 mesh bag.” All except the OTCM socks will be returning on shuttle.

3. As we mentioned yesterday, reference 16-1321 (MSG 019) for the wiretie installation onto the Airlock handrail.

4. Due to the issues with the SLP keep alive power up, there is a change to not remove any thermal covers during EVA 1. Covers will not be removed until MCC GO. Therefore make the following change:

US_FDF; EVA Checklist STS-123 FLIGHT Supplement, Timelines, EVA1 FS7-22 : Delete Remove SJEU Blankets (steps 3-5)

5. We are also adding a get-ahead task to EVA 1 to inspect some of the SLP connections. Message 16-1327 (MSG 028) SPDM Connector Inspections contains the details of this task, but the big picture is that you will be verifying torque on the SLP PDGF horseshoe connectors, and inspecting the four harnesses at the pivot assembly (SLP forward).

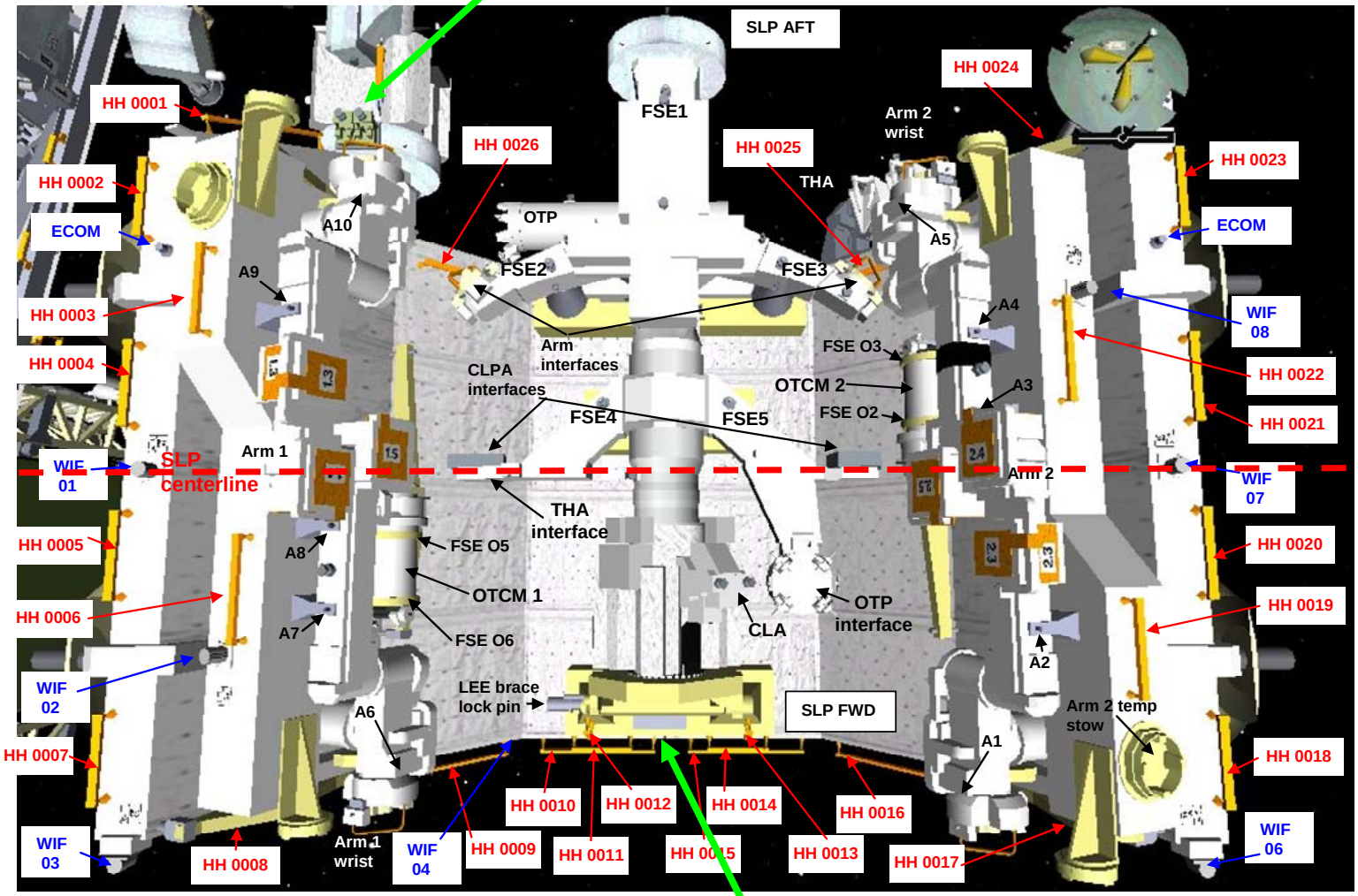
SPDM Connector Inspections

There are two areas with connectors on the SLP for inspection:

1) **SLP PDGF** - There are two EVA-driven horseshoe brackets on the side of the SLP PDGF. These brackets each support two connectors. The interface is covered by a thermal blanket that can be peeled back to expose the horseshoe brackets. (J6/P6, J8/P8, J7/P7, J5/P5). A torque check of these connectors may be performed
2) **LEE Pivot Assembly** - At the LEE pivot assembly there are four harnesses that come from the SLP PDGF. These are mounted to a flange protruding from the LEE pivot assembly. There are four harnesses coming from the SPDM LEE interface on the rotating portion of the pivot assembly that connects to the four from the PDGF. (J9/P9, J10/P10, J11/P11, J12/P12). An inspection of these connectors may be performed

General Location of the Connectors for Inspection

SLP PDGF Horseshoe Connectors

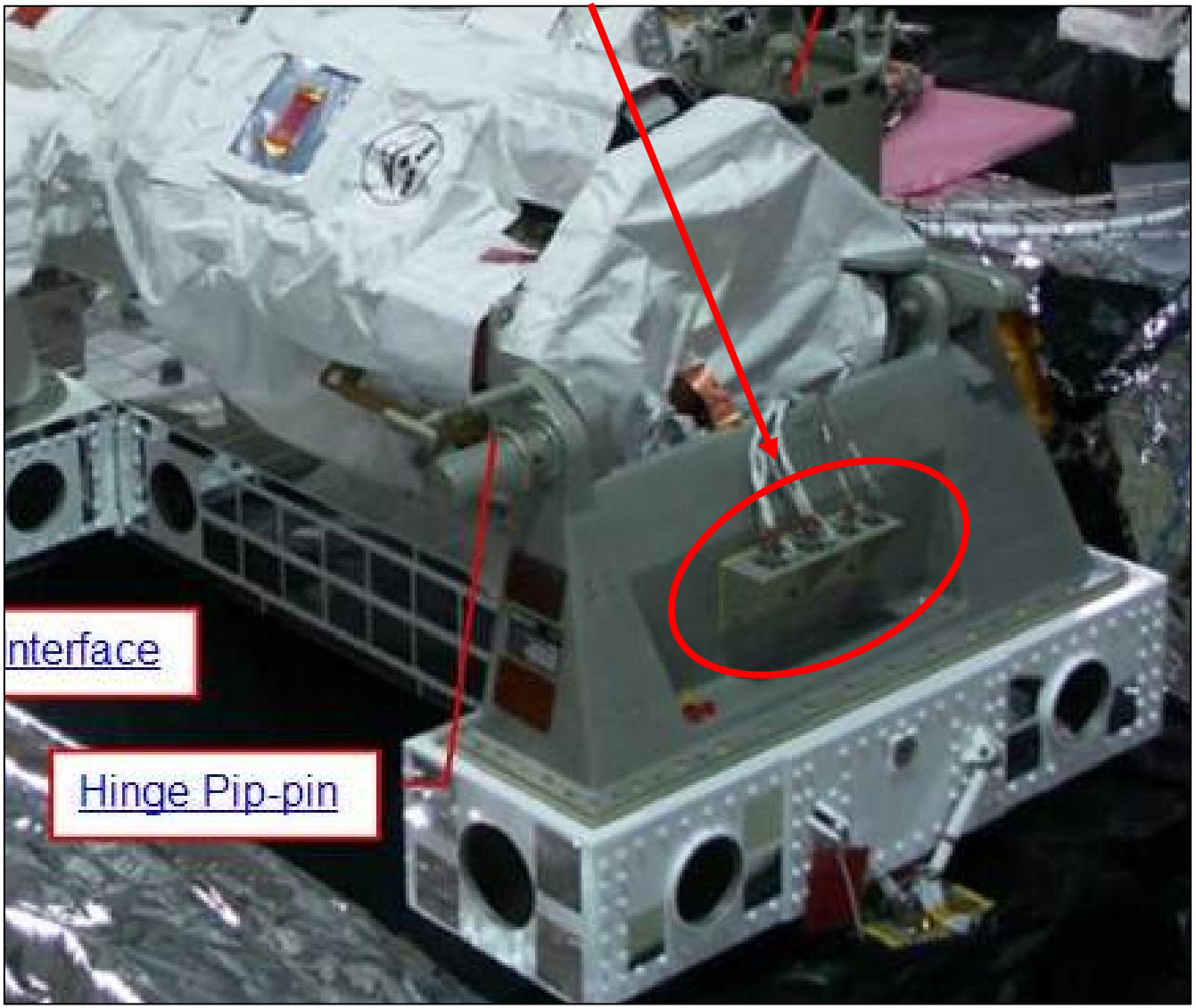


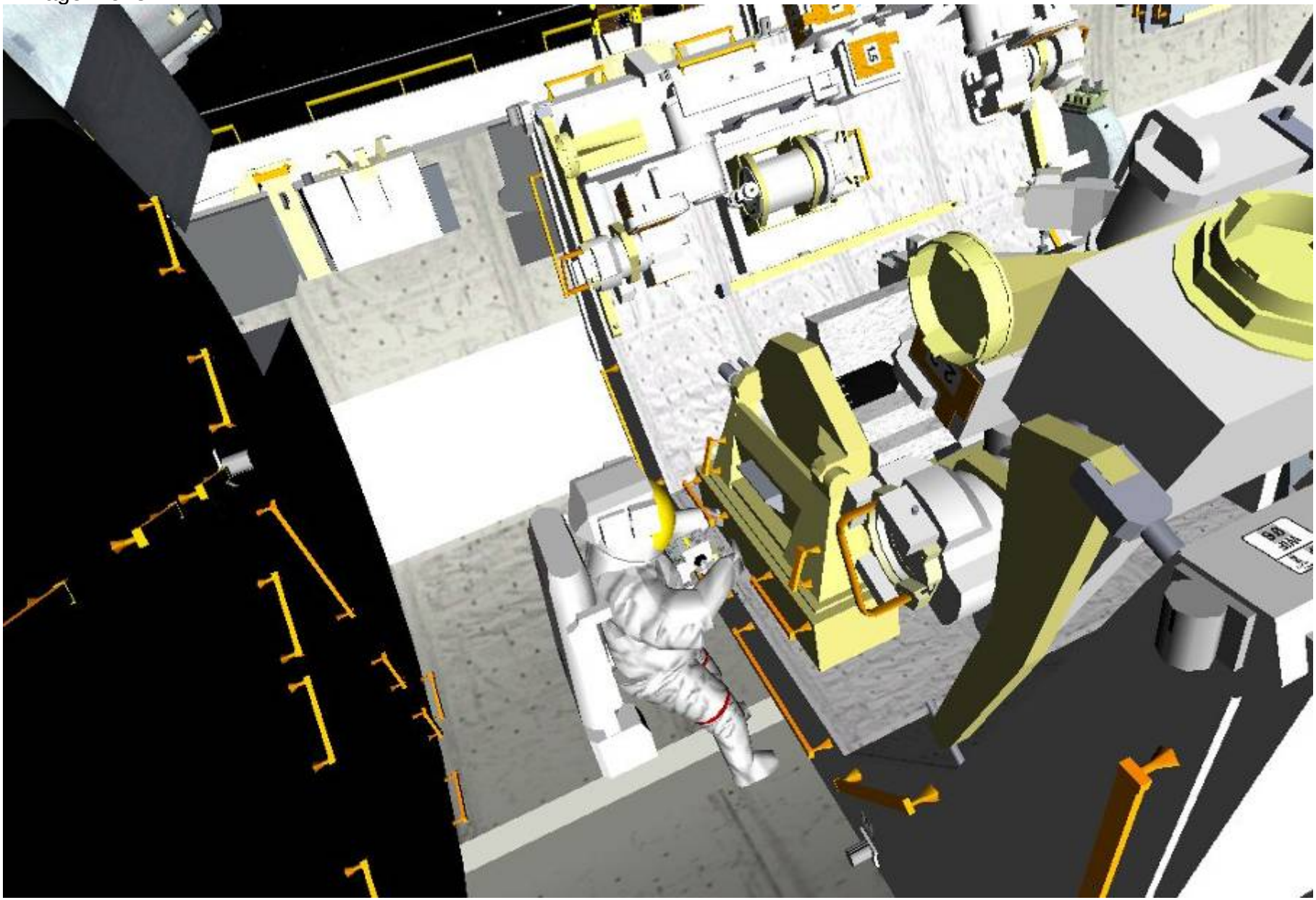
SPDM launch configuration

LEE PIVOT CONNECTORS

LEE Pivot Connectors

(Visually inspect both above and below the flange to confirm that the four harnesses look fully connected. These are not EVA compatible connectors.)





PDGF Horseshoe Connectors

PDGF Horseshoe Connector Torque Check

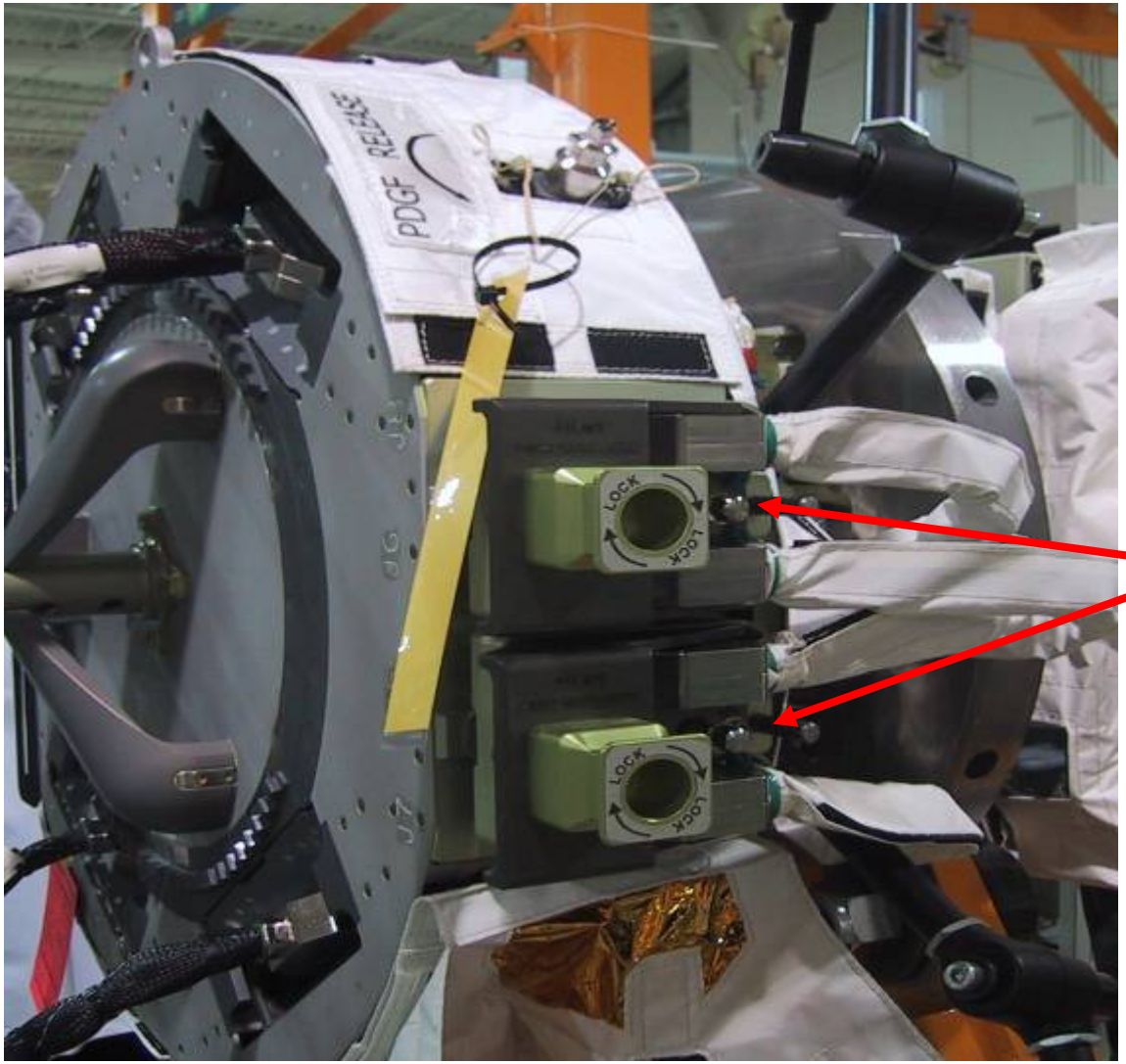
- Tools

  PGT with 6”-7/16” Ext.

  Settings: [A7 (9.2 ft-lbs), 30 rpm, 30.5]

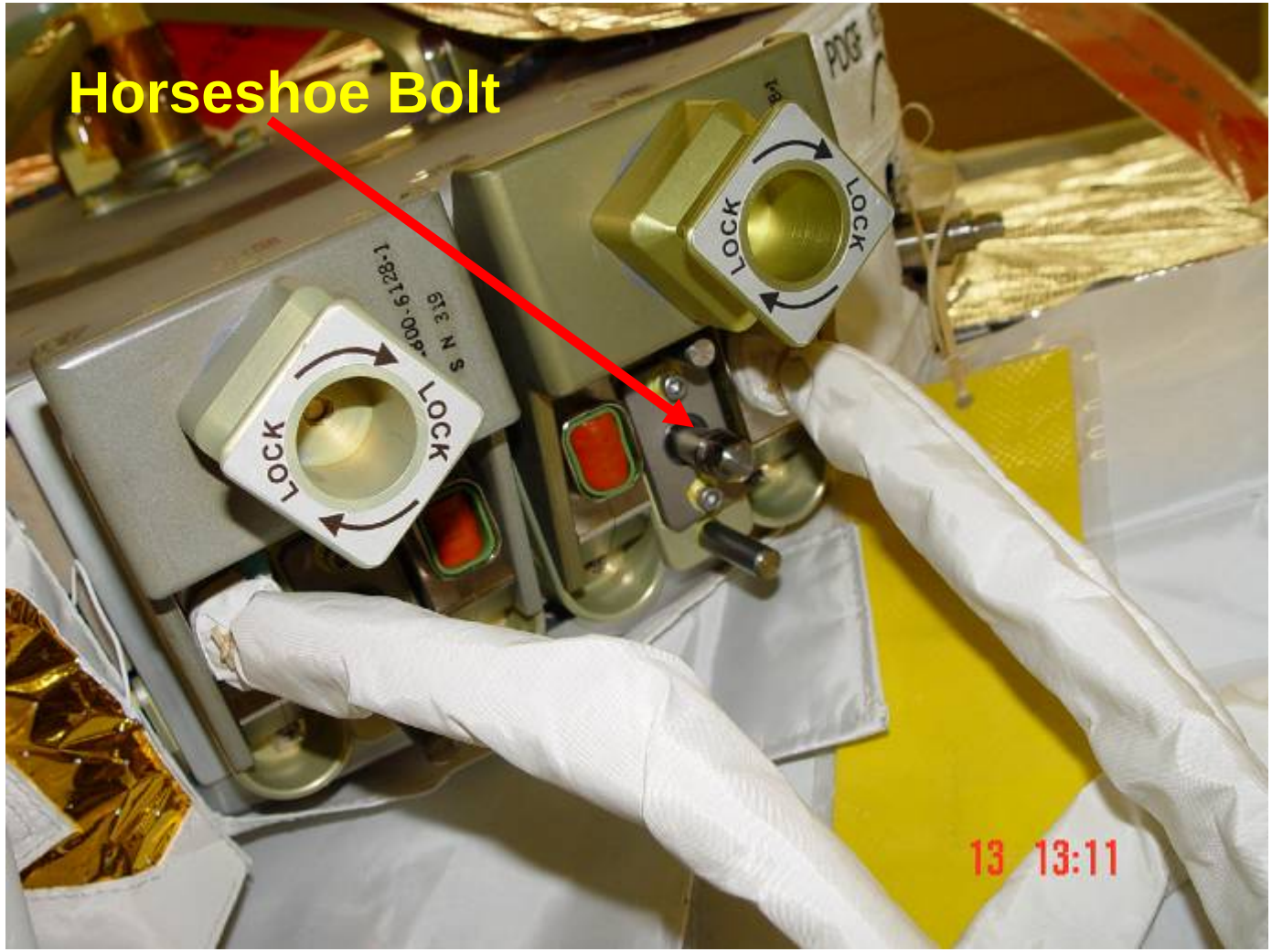
- Engage both horseshoe connector bolt-drive bolts CW to hard stop. Report torque, turns, and PGT green light.

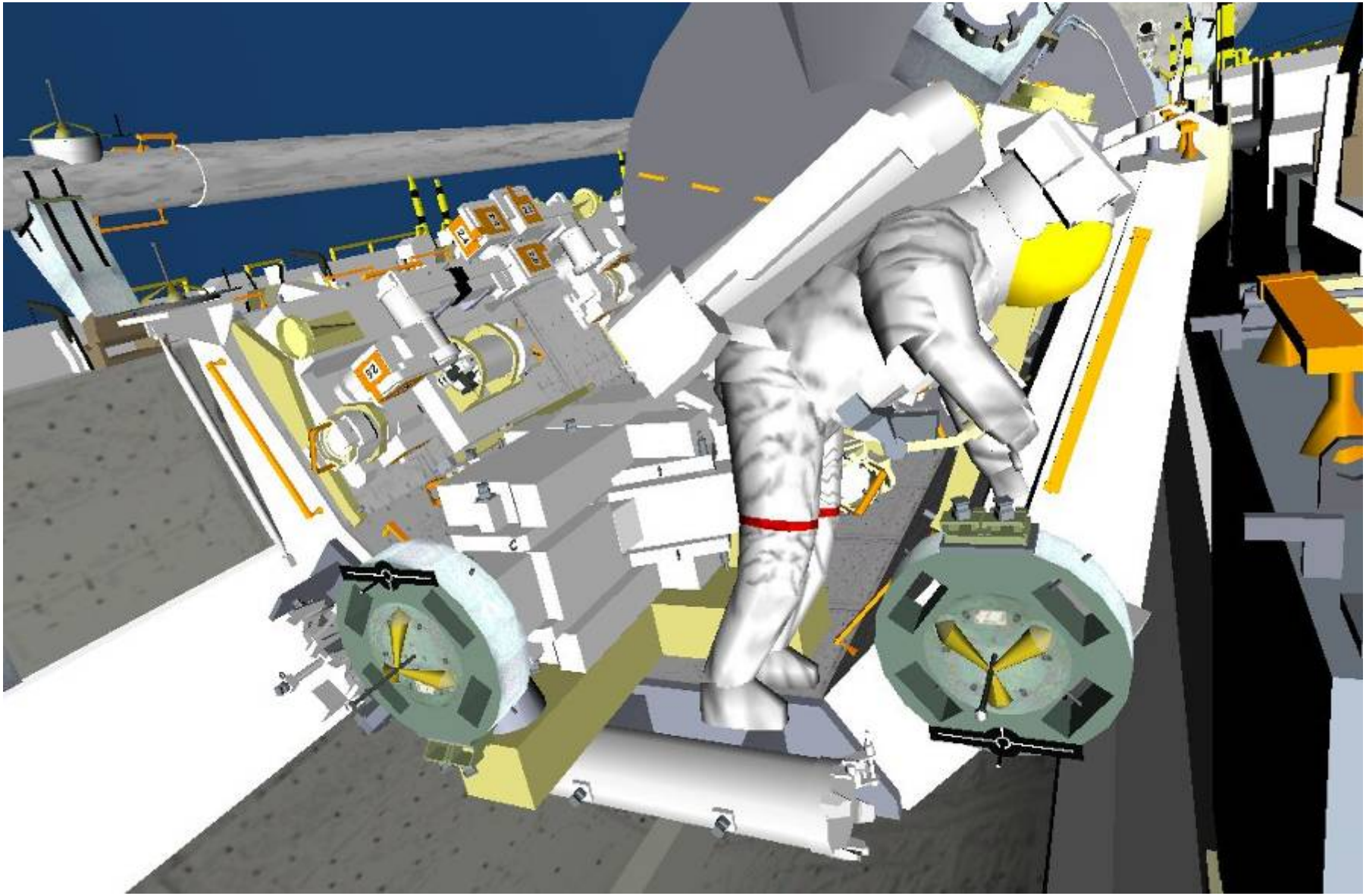
PDGF Horseshoe Connectors



Horseshoe Bolts

PDGF Horseshoe Connectors





CWC FILLS

	CWC No.	Input S/N Used	Sample?	Additives	CWC Label	CWC Launch Location
☐	1		Sample (Note A)	Ag Biocide, Minerals	Blue (Pot)	Ref Note B
☐	2		Sample (Note A)	Ag Biocide, Minerals	Blue (Pot)	Ref Note B
☐	3		Sample (Note A)	Ag Biocide	Green (Tech)	Ref Note C
☐	4		Sample (Note A)	Ag Biocide	Green (Tech)	Ref Note C
☐	5		Sample (Note A)	Ag Biocide	Green (Tech)	Ref Note C

Pre-Fill Checklist:

- Disinfect CWC QD and Transfer Hose QD
  3☐ 4☐ 5☐

Post-Fill Checklist:

- Check correct label is in CWC window
  1☐ 2☐ 3☐ 4☐ 5☐
- Check correct decal on CWC end
  1☐ 2☐ 3☐ 4☐ 5☐
- Check correct CWC S/N on end decal
  1☐ 2☐ 3☐ 4☐ 5☐
- Report S/N to MCC
  1☐ 2☐ 3☐ 4☐ 5☐
- Transfer CWC to NOD1D2
  1☐ 2☐ 3☐ 4☐ 5☐
- Cap Transfer Hose QD between each fill

CWC Fill Notes:

A. Stow filled sample bags and purge bags in MF14E

B. In MD CEIL (PORT 2, BAG F); Available Potable S/N:
1094 ☐ 1095 ☐

C. Disinfect CWC QD and Transfer Hose QD prior to fill.
Available Technical S/Ns In Pregathered Mesh Bag:
1030 ☐ 1070 ☐ 1071 ☐ 1043 ☐
Pregathered Mesh Bag is located in ISS NOD2P2, M-02 Bag S/N 1026

D. Transfer the following to Sample/Purge Kit S/N 1005 :
From Sample/Purge Kit S/N 1001:
Remaining empty sample bags
Condensate Adapter Assembly (Techinical Adapter and Male Hose Adapter)
From Sample/Purge Kit S/N 1002:
Remaining empty sample bags once final CWC fill has been completed

E. Rough handling may cause leakage

Kit	S/N	Launch Location	Undock Location	Notes
Ag Biocide Kit	1006	Pregathered Mesh Bag	MD FLOOR (STBD 2, BAG F)	Use for fills 1-3 and return in MD FLOOR (STBD 2, BAG F)
Ag Biocide Kit	1002	MD CEIL (PORT 2, BAG F)	ISS Transfer Staging Area	Use for fills 4-5 and transfer to ISS
Mineralization Kit	1002	MD CEIL (PORT 2, BAG F)	MD FLOOR (STBD 2, BAG F)	Use for all potable CWC fills
Sample/Purge Kit	1002	Window Shade Bag	Window Shade Bag	Use for all CWC fills (Ref Note D)
Sample/Purge Kit	1005	MD CEIL (PORT 2, BAG F)	ISS Transfer Staging Area	Not used for fills (Ref Note D)
Sample/Purge Kit	1001	LAB1O6	MD FLOOR (STBD 2, BAG F)	Not used for fills; returning on middeck (Ref Note D)

PWR OPS

	PWR No.	PWR S/N	Launch Location	Actions
☐	1	2004 (OGS)	A/L1D1_B1	Vent, fill and transfer to LAB1P1 (WDS); will return to Shuttle for future fill
☐	2	2002 (OGS)	A/L1D1_B1	Vent, fill and transfer to ISS A/L1D1_A1
☐	3	1013	A/L1D1_A2	Vent, fill and transfer to ISS A/L1D1_A1
☐	4	2004 (OGS)	LAB1P1 (WDS)	Vent, refill and transfer to ISS A/L1D1_B2
☐	5	1012	A/L1D1_A2	Post EVA2, vent, fill and transfer to ISS A/L1D1_B2
☐	6	1023	A/L1D1_B2	Post EVA4, fill and transfer to ISS A/L1D1_A1

PWR Fill Notes: Do not detach PWR (EMU H2O Recharge Bag) QD restraint during PWR ops
WDS = **W**ater **D**elivery **S**ystem in LAB1P1

END OF PAGE 1 of 1, MSG 025A

Pen and Ink Instructions for Assembly Operations – 1 J/A procedure **1.106 JLP VENTILATION FAN ACTIVATION(DEACTIVATION) – MKAM**

In the Assembly Operations - 1 J/A book on pages 33 and 34

Add the following words to the end of the **OBJECTIVE**:
and power on(off) GLAs by SRCA.

Step 1
After the line Verify RPC1(JLP Ventilation Fan) – Cl
Add:
JLP sw SRCA → On

[where JLP is the location code]

Step 2:
Add the location code “MKAM” to the step 2 title

After the line: Verify RPC1(JLP Ventilation Fan) – Op
Add:
JLP sw SRCA → Off

[where JLP is the location code]

FD03 MMT Summary

The FD03 MMT met to review mission progress with only a few items of discussion. The main items of discussion included orbiter systems and ascent imagery. The MMT discussion was brief, which is indicative of how well the mission is proceeding.

Partial Pressure of CO2: The team briefly discussed the LiOH can change-outs that occurred to compensate for the actual metabolic rates seen through Flight Day 2. The process for predicting actual metabolic rates early in the mission will be reviewed as a post flight item.

Orbiter Systems: The team reviewed the minor orbiter system anomalies that are currently being tracked. The GMEM recovery process for L5L went very smoothly and based on the FES Pri A troubleshooting performed on FD1, no further troubleshooting will be required. Overall, Endeavour is performing very well.

Imagery: The team is reviewing all available imagery. Only 3 items were discussed, none of which are concerns. Debris moving outboard of SSME #3, which is estimated to be tile coating loss, occurred at liftoff. The RPM data is expected to provide more insight into this object. Imagery review of the debris that occurred at 10 seconds conclusively shows no impact with the orbiter. Instead, the imagery review shows that the debris transport occurs in the vicinity of the forward SRB frustum. The imagery debris that occurred at 83 seconds also conclusively shows no impact with the orbiter. In addition to the imagery review, enhanced images of the External Tank, made possible by the new umbilical well flash system, were presented. Images of these items can be found in Figures 1 through 4.

Wing Leading Edge Impact System: No wing leading edge sensor data exceeded 1 GRMS during ascent, which is good news. The team is ready to mode the system into its on-orbit MMOD monitoring configuration.

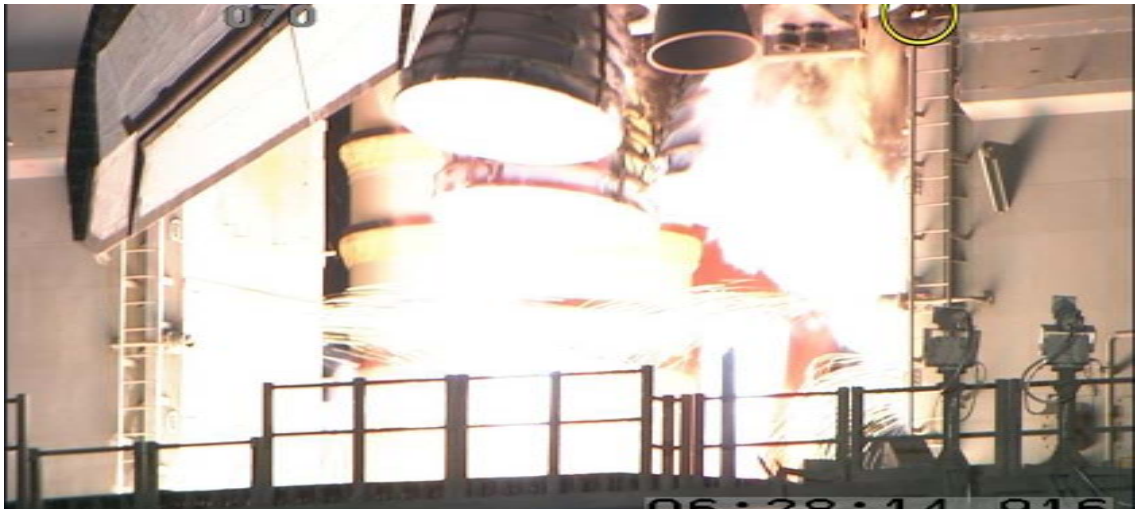


Figure 1. Debris outboard of SSME #3 (circled in upper right portion of image)

Figure 2. 9.947 second MET Debris

Figure 3. 82.1 - 83 second MET Debris

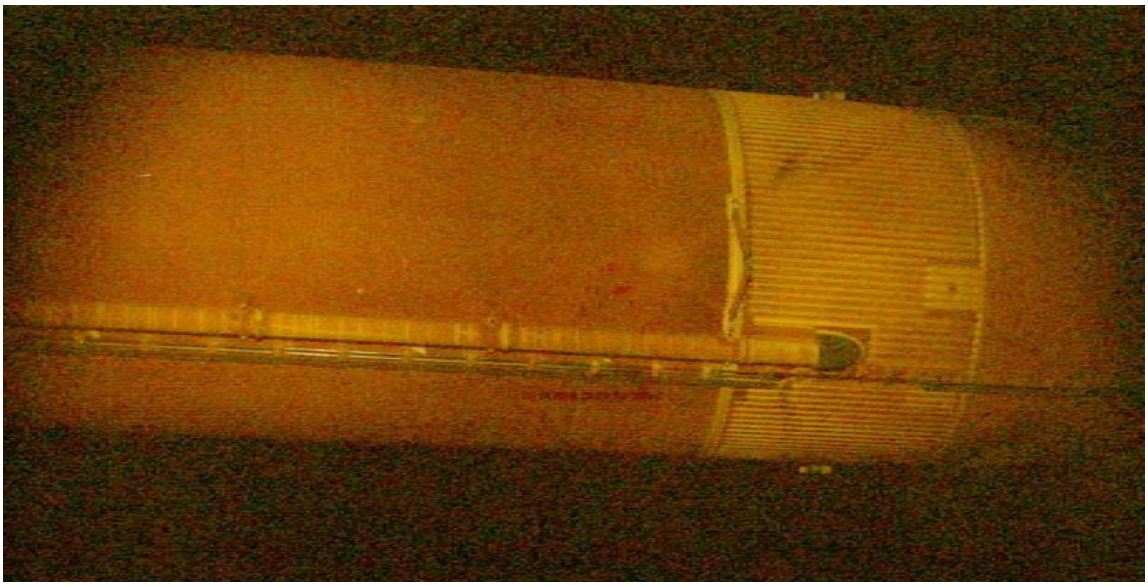


Figure 4. STS-123 Enhanced Umbilical Image