STS-123 / 1J / A

FD 13 Execute Package

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117	16 - 17	FD13 Mission Summary **(pdf)**
119	18 - 20	FD13 Transfer Message **(pdf)**
120	21	JLP Final Configuration Check **(pdf)**
121	22	FD13 EVA Deltas **(pdf)**
122	23 - 27	MD Bag Layouts/Return Locker Layout **(pdf)**
118	---	FD12 MMT Summary **(pdf - Electronic Only)**

Approved by FAO: *Telisha M. Harris*

Last Updated: Mar 22 2008 2:32PM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

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MSG NO.	TITLE
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117	FD13 Mission Summary
118	FD12 MMT Summary
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122	MD Bag Layouts/Return Locker Layout

1. Exercise Constraints

   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: EVA 5/OBSS Install on ISS

Activity	Exercise Constraints	
	Shuttle	ISS
OBSS hand-off to SSRMS	No exercise while both arms grappled to OBSS	No exercise while both arms grappled to OBSS
SSRMS hand-off to EVA	No exercise from MNVR TO PITCH POSN until after OBSS latched on ISS	No exercise from MNVR TO PITCH POSN until after OBSS latched on ISS
Keep-Alive Umbilical Install and OBSS Stow	Orbiter ergometer prohibited during all structural-mounted APFR ops	IRED and HC-1 prohibited during all structural-mounted APFR ops

2. Dual Airlock Fan Operation

   With both Airlock Fan A and B operating at the same time, immediately report any unusual noises. MCC insight into the performance of the Airlock Fans is limited to AC currents.

3. JLP Final Configuration

   Check JLP items configuration prior to undock per JEDI 16-1412 (MSG 120). Take pictures and call down the results. If crew ingress of JLP is necessary for this activity, perform JLP fan activation before ingress and JLP fan deactivation after egress via MKAM.

4. REPLACE PAGES 2-44, 2-46, 2-48, 3-138 THROUGH 3-147.

GMT 03/22/08 (082) 07 08 09 10 11 12 13 14 15 16 17 18

MET β=51 Day 011 011/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-123	**FD12** CDR GORIE	PRE SLEEP					SLEEP											**FD13** POST SLEEP		PMC A/G	POST SLEEP			
	PLT JOHNSON	PRE SLEEP					SLEEP											SLEEP	POST SLEEP					
	EV1 MS1 BEHNKEN	PRE SLEEP	MASK PB/TOOL CONFIG	10.2 DPRS	PRE SLEEP		SLEEP											POST SLEEP	HYG BRK/ PREBREATHE	A/L REP	10.2 DPRS	♣		
	EV2 MS2 FOREMAN	PRE SLEEP	MASK PB/TOOL CONFIG		PRE SLEEP		SLEEP											POST SLEEP	HYG BRK/ PREBREATHE			⊕		
	MS3 DOI	PRE SLEEP					SLEEP											POST SLEEP						
	MS4 LINNEHAN	PRE SLEEP					SLEEP											POST SLEEP			HYG BRK/ HATCH CLS	♦		
DN	FE-2 EYHARTS	PRE SLEEP ISS					SLEEP (8.5)											PCBA SUBJ	POST SLEEP			PREP WORK		
EXP	ISS CDR WHITSON	PRE SLEEP ISS					SLEEP (8.5)											POST SLEEP			HYG BRK/ HATCH CLS	♦		
	FE-1 MALENCHENKO	PRE SLEEP ISS		TEX*			SLEEP (8.5)											TEX*	POST SLEEP	DPC	POST SLEEP	HAMPD	PREP WORK	
UP	FE-2 EXP16 REISMAN	PRE SLEEP ISS					SLEEP (8.5)											SALV	POST SLEEP			PREP WORK		

STS

DAY/NIGHT

ORBIT 175 176 177 178 179 180 181 182

TDRS W -171 E -46 Z -275

ORB ATT BIAS -XLV -ZVV

*20 PUMP OFF *20 PUMP ON

NOTES

♣CAMPOUT E
⊕CAMPOUT E
♦CAMPOUT E

No Exercise, period !
(OBSS H/O RMS -> SSRMS & SSRMS -> EVA. OBSS STOW)

03/22/08 09:14:04 **REPLANNED**

GMT 03/22/08 (082) 19 20 21 22 23 03/23 01 02 03 04 05 06

MET β=52 Day 011 12 13 14 15 16 17 18 19 20 21 22 23 012/00

STS-123	FD13 R2	CDR GORIE	POST SLEEP; INHBT; PAD; CWC INIT #5; EXERCISE; CWC TERM; PURGE; MGLVRG; MPRWNUP; PWRUP; OBSS; ORBLSS; CWC XFER; H2O*; CWC H/W XFER; MEAL; N2-I; RMS CLNUP; RMS RDN; IMU; N2-T; PRE SLEEP
STS-123	M1	PLT JOHNSON	POST SLEEP; LCC-A; FLTR CLN - INSPECT; EXERCISE; SSRMS GRAP OBSS; OBSS H/OFF TO EVA; MEAL; PWR FILL #4; RMS PWRDN; PRE SLEEP
STS-123	EV1	MS1 BEHNKEN	CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDEGRS; SETUP; OBSS KAU INSTALL; OBSS STOW; MISSE PEC INST DPLOY; CLNUP; INGRS PRS; CTK RPRS; POST EVA W/O METOX; PRE SLEEP
STS-123	EV2	MS2 FOREMAN	CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDEGRS; SETUP; OBSS KAU INSTALL; OBSS STOW; STBD SARJ INSPECTION; CLNUP; INGRS PRS; CTK RPRS; POST EVA W/O METOX; PRE SLEEP
STS-123	R1	MS3 DOI	POST SLEEP; EXERCISE (14.7 rep); XFER; UPDT; PHOTO; CDM BATT CH OUT; P/TV 07 S/U; P07/TV; ORBLSS; P/TV07 EVA; MEAL; P/TV07 EVA; RMS CLNUP; FAN1; JLP ITEM CK; FANO; XFER BRIEF; MRLN; PRE SLEEP
STS-123		MS4 LINNEHAN	CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; EVA 5 (06:30); IVA SUPPORT; OBSS STOW, MISSE 6, SARJ; CTK RPRS; POST EVA W/O METOX; PRE SLEEP
DN		FE-2 EYHARTS	SSRMS EVA 5 SETUP; PHS W/BLD SUBJ; PHS DATA ENT/STW; Г-28Р СИ STOW; PPSBT; MEAL; MRLN; MELFI; TCS FLUID SAMPLE; ITCS XFER; OFF DUTY; ♣; PPSBI; RED; TVIS; PREP WORK; PS ISS; EVADL; PS ISS
EXP		ISS CDR WHITSON	CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; CO2*; IMV AIRFLOW SRVY; MEAL; RED; PRPS; CTK RPRS; POST EVA W/O METOX; EVADL
EXP		FE-1 MALENCHENKO	VELO+RED (14.7 rep); Г-28Р СИ STOW; MEAL; СРВК-БК-БКВ-МПТ; TVIS; ИП-1 МПТ; СОЖ; IMS; PREP WORK; PS ISS
UP	M2	FE-2 EXP16 REISMAN	SSRMS EVA 5 SETUP; PHS W/BLD CMO; MSG UMB MATE; SODF XFER; TVIS; SSRMS GRAP OBSS; OBSS H/OFF TO EVA; MEAL; OFF DUTY; PREP WORK; EXER; PS ISS

STS: DAY/NIGHT; ORBIT 183 184 185 186 187 188 189 190; TDRS W -171 E -46 Z -275; ORB ATT BIAS -XLV -ZVV

NOTES: *RMVL *SURVEY; *NOM CNFG; ♣P/TV-GLOVE-PHOTO-S/U

03/22/08 09:14:04 **REPLANNED**

GMT 03/23/08 (083) | MET β=53 Day 012

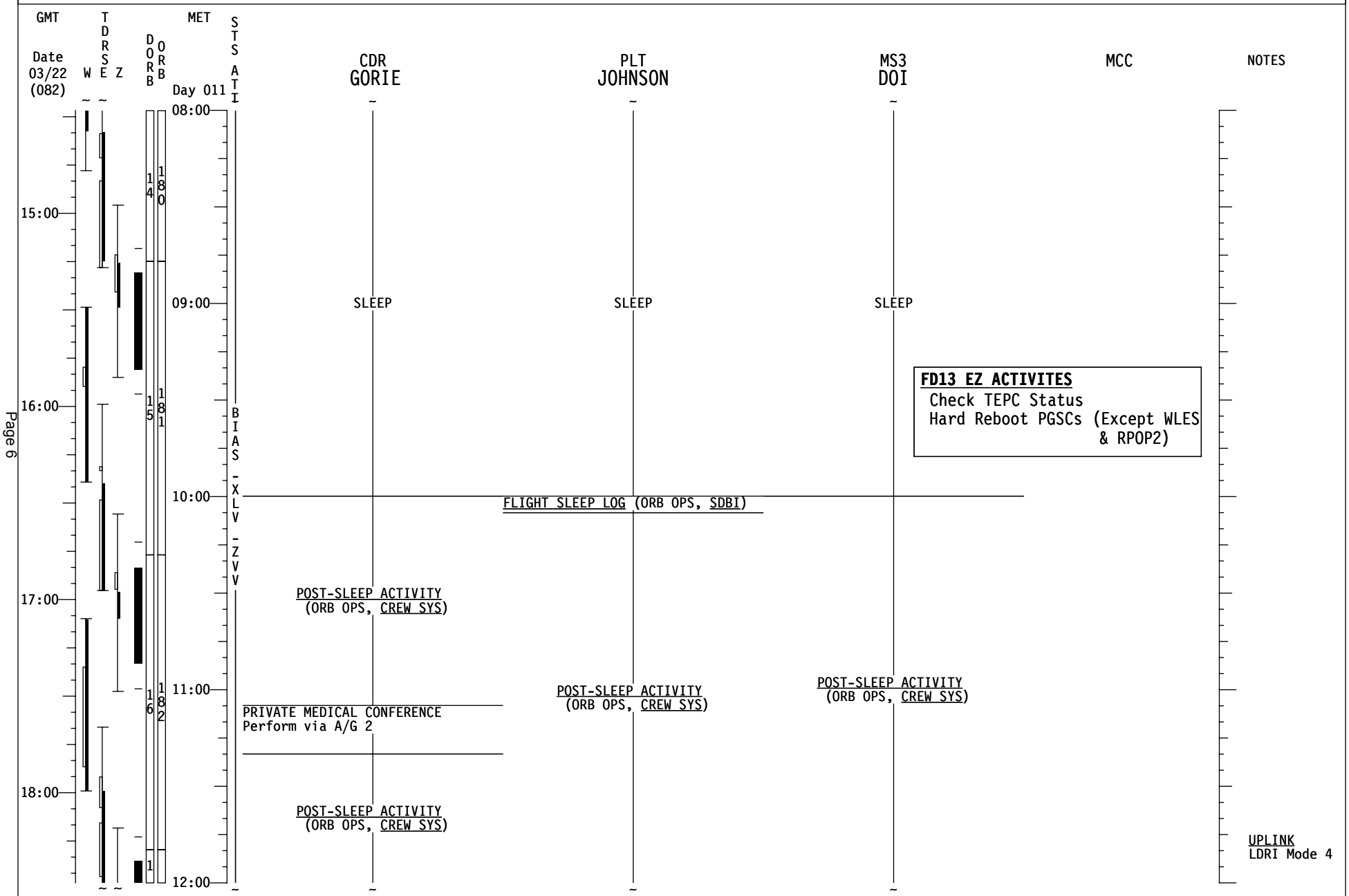
012/00 07 08 09 10 11 12 13 14 15 16 17 18 01 02 03 04 05 06 07 08 09 10 11 12

STS-123	CDR GORIE	FD13: ♣PMC OCA; PRE SLEEP	SLEEP	FD14: POST SLEEP	
	PLT JOHNSON	PRE SLEEP	SLEEP	SLEEP; POST SLEEP	
	MS1 BEHNKEN	PRE SLEEP	SLEEP	SALOG; ASPORN; POST SLEEP	
	MS2 FOREMAN	PRE SLEEP	SLEEP	SALOG; ASPORN; POST SLEEP	
	MS3 DOI	PRE SLEEP	CDM-A; CDM 5 OPS; SLEEP	CDM-D; POST SLEEP	
	MS4 LINNEHAN	PRE SLEEP	SLEEP	POST SLEEP	
DN	FE-2 EYHARTS	PS ISS	SLEEP (8.5)	SALV; ⊕; POST SLEEP	HAND OVER
EXP	ISS CDR WHITSON	PRE SLEEP-ISS	SLEEP (8.5)	POST SLEEP	DCS; RCNFG; MTX-I; ♦
	FE-1 MALENCHENKO	PS ISS; TEX*	SLEEP (8.5)	TEX*; POST SLEEP	
UP	FE-2 EXP16 REISMAN	PS ISS	SLEEP (8.5)	DRY; POST SLEEP	HAND OVER

STS:
- DAY/NIGHT
- ORBIT: 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198
- TDRS: W -171, E -46, Z -275
- ORB ATT: BIAS -XLV -ZVV

NOTES:
♣PRE SLEEP *20 PUMP OFF
⊕IMMN-1JA SALIVA-XFER ♦OFF DUTY
*20 PUMP OFF
IWIS RS THRSTR TEST

STS-123 (FD13)


GMT
Date 03/22 (082)
W
TDRSE
Z
DORB
ORB
MET
Day 011
STS ATI
CDR GORIE
PLT JOHNSON
MS3 DOI
MCC
NOTES
08:00
09:00
10:00
11:00
12:00
15:00
16:00
17:00
18:00
14
180
15
181
16
182
1
BIAS - XLV - ZVV
SLEEP
SLEEP
SLEEP
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)
PRIVATE MEDICAL CONFERENCE
Perform via A/G 2
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
FD13 EZ ACTIVITES
Check TEPC Status
Hard Reboot PGSCs (Except WLES & RPOP2)
UPLINK
LDRI Mode 4

STS-123 (FD13)

GMT Date 03/22 (082) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATI

MS1 BEHNKEN | MS2 FOREMAN | MS4 LINNEHAN | NOTES

08:00 | 09:00 | 10:00 | 11:00 | 12:00 | 15:00 | 16:00 | 17:00 | 18:00

14 | 180 | 15 | 181 | 16 | 182 | 1

BIAS -XLV -ZVV

SLEEP | SLEEP | SLEEP

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

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

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

EVA SYS: 2.315 HYGIENE BREAK
Steps 21-29

NOTE: MCC-H performs Step 23

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

STS-123 (FD13)

GMT Date 03/22 (082) | W | TDRSE | Z | DORB | ORB | MET Day 011 | 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

1 8 3

2 8 4

3 8 5

BIAS - XLV - ZVV

CDR GORIE

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA 5 INHIBIT PAD
Ref. MSG 109

SHUTTLE/ISS H2O CNTR FILL
(ORB OPS, ECLS) CWC FILL #5
Ref. MSG 025, Fill Dur: ~52 min.

EXERCISE

SHUTTLE/ISS H2O CNTR FILL
(ORB OPS, ECLS)
Perform FILL TERMINATION

SHUTTLE/ISS H2O CNTR FILL(ORB OPS, ECLS)
Perform WATER TRANSFER HOSE PURGE

ASSY OPS: MERLIN RMVL OF MSG GLOVERINGS
Ref. Transfer List: Item 43

ASSY OPS: MERLIN POWERUP

OBSS H/O TO SSRMS FOR STOW
(PDRS, OBSS H/OFF)
Steps 1-3

PLT JOHNSON

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

A15 APCU 2 CONV - OFF, wait 5 sec, ON

LCC ACTIVATION,Steps 1 & 2 only
(P/TV FS,CUE CARD)

FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)
Inspect filters and clean as necessary

EXERCISE

ROBO: 1.702 OBSS HANDOFF TO STOW
On EVA Egress: Steps 1-3
(OBSS H/O from SRMS)

ROBO: 1.702 OBSS HANDOFF TO STOW
Steps 4-9

MS3 DOI

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EXERCISE

TRANSFER UPDATE
Ref. Transfer List & MSG 119

MULTIMETER PHOTO
Ref. MSG 119

CDM SETUP & BATT CH OUT
(ORB OPS, CDM DTO)
Attach CDM in Location 5

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

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

OBSS H/O TO SSRMS FOR STOW
(PDRS, OBSS H/OFF)
Steps 1-3

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

MCC

NOTES

UPLINK
β21 + Mask
Box 35,39
60

NO EXERCISE

STS-123 (FD13)

GMT Date 03/22 (082) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATI

MS1 BEHNKEN	MS2 FOREMAN	MS4 LINNEHAN	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	
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	
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		
SORTIE SETUP	SORTIE SETUP	IVA SUPPORT	NO EXERCISE
OBSS KEEP-ALIVE UMBILICAL INSTALL	OBSS KEEP-ALIVE UMBILICAL INSTALL		

Time scale: 19:00, 20:00, 21:00, 22:00; 12:00, 13:00, 14:00, 15:00, 16:00

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STS-123 (FD13)

GMT Date 03/22 (082) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATI

CDR GORIE	PLT JOHNSON	MS3 DOI	MCC	NOTES
CWC TRANSFER Transfer 1 CWC to ISS NOMINAL H2O CONFIG (ORB OPS,ECLS) No FES actions req'd; Do not perform L1 Step or TOPPING FES STARTUP CWC H/W TRANSFER Ref. Transfer List Items 8-8.1 & 9	ROBO: 1.702 OBSS HANDOFF TO STOW Steps 4-9	P/TV07 EVA (P/TV FS, SCENES)	NO EXERCISE	
MEAL	MEAL	MEAL		UPLINK β21 + Mask Box 31,34, 40,50
	PWR FILL (ORB OPS, ECLS) Perform WATER FILL #4 Ref. MSG 025	P/TV07 EVA (P/TV FS, SCENES)		UPLINK β0 Only Box 31,34, 40,50
N2 RPRS USING PL N2 VLVS Init (ORB OPS, ECLS) Steps 1,3-7 MCC will TMBU SM FDA				

Time scale: 16:00, 17:00, 18:00, 19:00, 20:00; 23:00, 00:00, 01:00, 02:00

STS ATI: BIAS - XLV - ZVV

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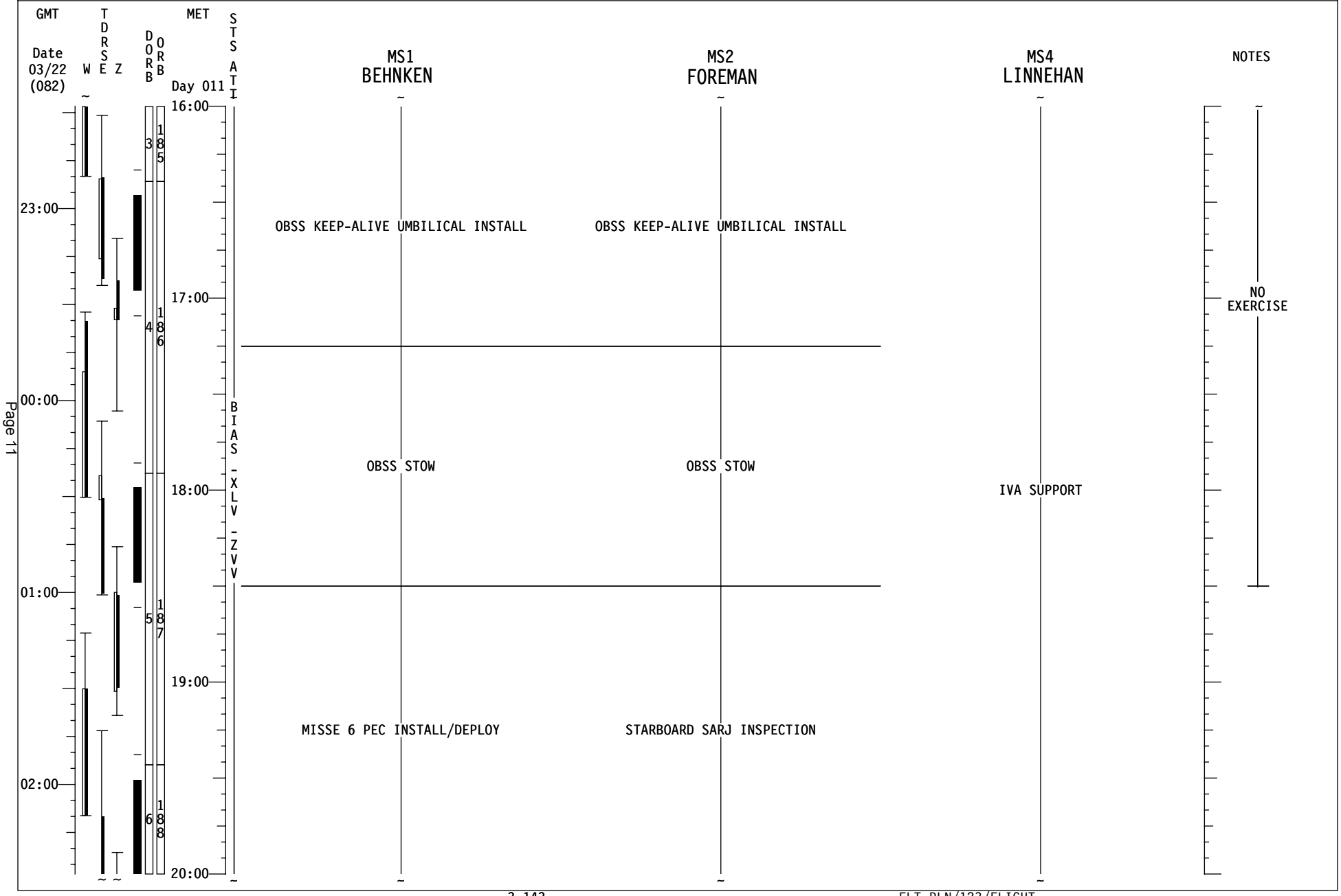
STS-123 (FD13)


GMT
Date 03/22 (082)
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DORB
ORB
MET
Day 011
STS ATI
16:00
17:00
18:00
19:00
20:00
23:00
00:00
01:00
02:00
3
4
5
6
185
186
187
188
BIAS-XLV-ZVV
MS1 BEHNKEN
MS2 FOREMAN
MS4 LINNEHAN
NOTES
OBSS KEEP-ALIVE UMBILICAL INSTALL
OBSS KEEP-ALIVE UMBILICAL INSTALL
OBSS STOW
OBSS STOW
IVA SUPPORT
MISSE 6 PEC INSTALL/DEPLOY
STARBOARD SARJ INSPECTION
NO EXERCISE

STS-123 (FD13)

GMT Date 03/23 (083) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATI | CDR GORIE | PLT JOHNSON | MS3 DOI | MCC | NOTES

20:00

03:00

04:00

05:00

06:00

21:00

22:00

23:00

00:00

6 188

7 189

8 190

BIAS_XLV_ZVV

CDR GORIE

OBSS H/O TO SSRMS FOR STOW
(PDRS, OBSS H/OFF)
Steps 4-7

RMS PWRDWN
(PDRS, RMS PWRDN)
Note: Do not stow MPM's

IMU STAR OF OPPTY ALIGN (ORB OPS)

N2 RPRS USING PL N2 VLVS Term
(ORB OPS, ECLS) Steps 8-13
MCC will TMBU SM FDA

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PLT JOHNSON

RMS PWRDWN
(PDRS, RMS PWRDN)
Note: Do not stow MPM's

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS3 DOI

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

OBSS H/O TO SSRMS FOR STOW
(PDRS, OBSS H/OFF)
Steps 4-7

ASSY OPS: 1.106 JLP VENT FAN ACT/DEACT-MKAM Step 1 (Act)

JLP FINAL CONFIGURATION CHECK
Ref. MSG 116, Item 3 & MSG 120

ASSY OPS: 1.106 JLP VENT FAN ACT/DEACT-MKAM Step 2 (Deact)

TRANSFER BRIEF
Call down status to MCC

ASSY OPS: MERLIN STATUS CK (CC)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MCC

NOTES

UPLINK
β21 + Mask
Box 31,34,
40,50

STS-123 (FD13)

GMT Date 03/23 (083) | W | TDRSE | Z | DORB | ORB | MET Day 011 | STS ATI | MS1 BEHNKEN | MS2 FOREMAN | MS4 LINNEHAN | NOTES

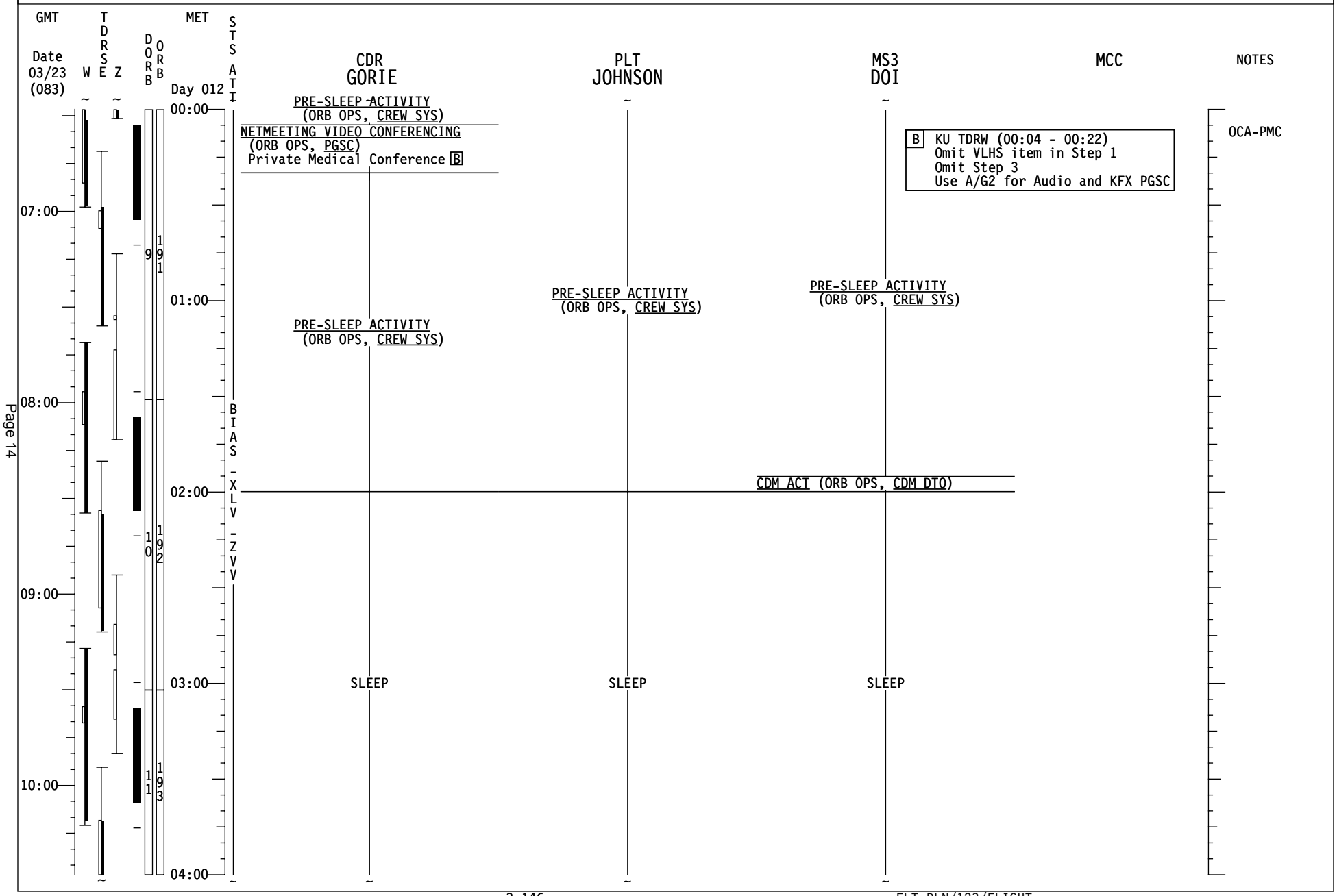
20:00 | 03:00 | 04:00 | 05:00 | 06:00 | 21:00 | 22:00 | 23:00 | 00:00

6 | 188 | 7 | 189 | 8 | 190

BIAS - XLV - ZVV

MS1 BEHNKEN	MS2 FOREMAN	MS4 LINNEHAN
MISSE 6 PEC INSTALL/DEPLOY	STARBOARD SARJ INSPECTION	
EVA 5 SORTIE CLEANUP	EVA 5 SORTIE CLEANUP	IVA SUPPORT
CREWLOCK INGRESS	CREWLOCK INGRESS	
EVA SYS: PRE REPRESS (CC)	EVA SYS: PRE REPRESS (CC)	
EVA SYS: CREWLOCK REPRESS (CC)	EVA SYS: CREWLOCK REPRESS (CC)	EVA SYS: CREWLOCK REPRESS (CC)
EVA SYS: 1.240 POST EVA With H2O, Without METOX MCC-H will perform Steps 44 & 68. Steps 38 & 67 not req'd. Ref. MSG 121 REF: 123 CONSUMABLES TRACKING CC (EVA)	EVA SYS: 1.240 POST EVA With H2O, Without METOX MCC-H will perform Steps 44 & 68. Steps 38 & 67 not req'd. Ref. MSG 121 REF: 123 CONSUMABLES TRACKING CC (EVA)	EVA SYS: 1.240 POST EVA With H2O, Without METOX MCC-H will perform Steps 44 & 68. Steps 38 & 67 not req'd. Ref. MSG 121 REF: 123 CONSUMABLES TRACKING CC (EVA)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

STS-123 (FD13)


GMT
Date 03/23 (083)
W
TDRSE
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DORB
ORB
MET
Day 012
STS ATI
CDR GORIE
PLT JOHNSON
MS3 DOI
MCC
NOTES
00:00
01:00
02:00
03:00
04:00
07:00
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9
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11
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192
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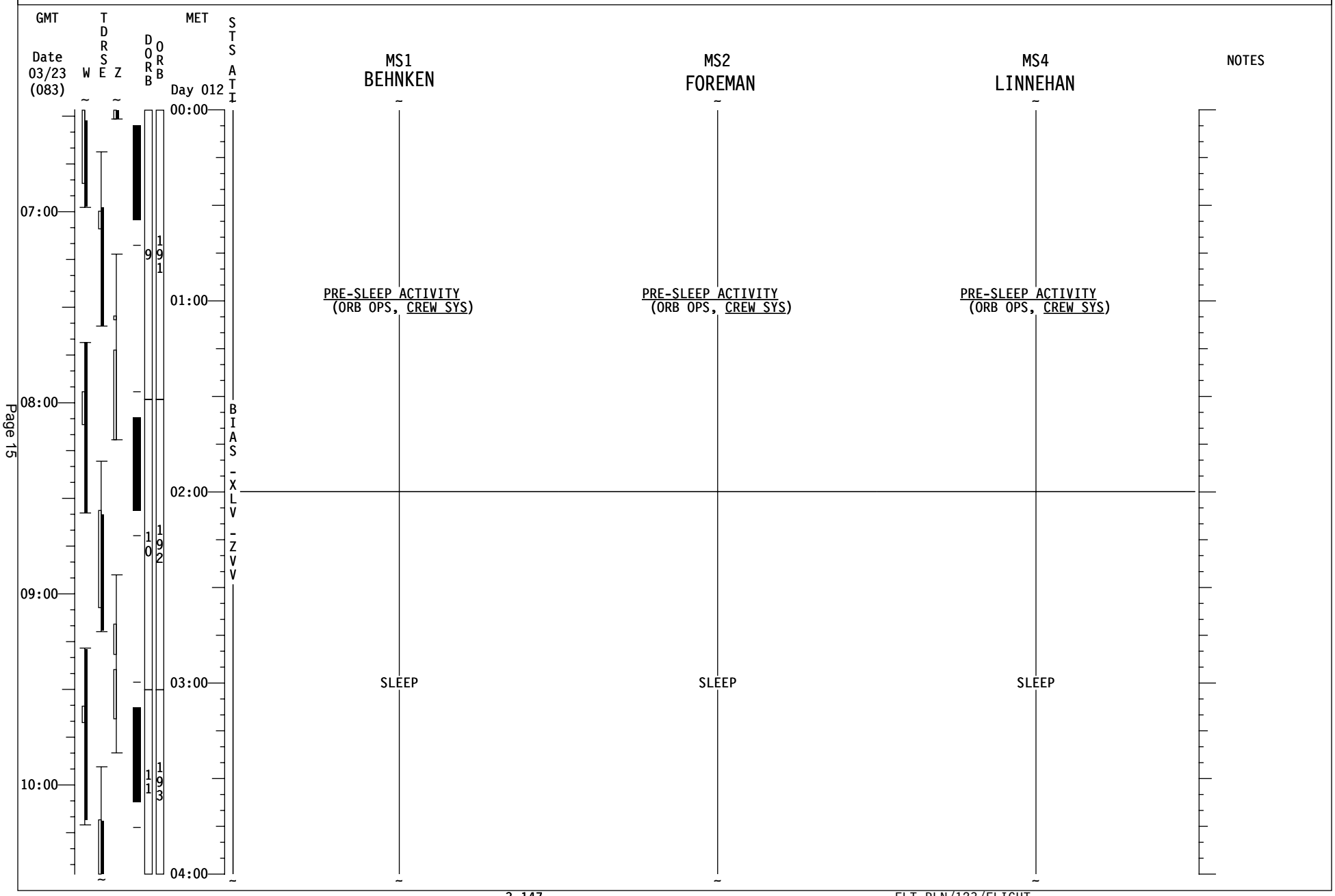
BIAS - XLV - ZVV
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)
Private Medical Conference B
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
CDM ACT (ORB OPS, CDM DTO)
SLEEP
SLEEP
SLEEP
B KU TDRW (00:04 - 00:22)
Omit VLHS item in Step 1
Omit Step 3
Use A/G2 for Audio and KFX PGSC
OCA-PMC

STS-123 (FD13)


GMT
Date
03/23
(083)
W
TDRSE
Z
DORB
ORB
MET
Day 012
STS ATI
MS1
BEHNKEN
MS2
FOREMAN
MS4
LINNEHAN
NOTES
07:00
08:00
09:00
10:00
00:00
01:00
02:00
03:00
04:00
9
10
11
191
192
193
BIAS -XLV -ZVV
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP
SLEEP
SLEEP

While you were sleeping...

The teams from both flight control rooms evacuated the building this morning from 06:10-06:20 Houston time in order to witness the spectacle of a triple fly-by -- ATV, Shuttle and Station (with two of you flying in VERY close formation). It didn't disappoint. We picked you up as you came out of eclipse above Amarillo and followed you until you disappeared from view over the Yucatan peninsula. Nice flying!

Fifth and final round of EVA madness today pits your crew vs. MISSE, OBSS and Starboard SARJ for the trophy. Take 'em to the hoop.

YOUR CURRENT ORBIT IS: 186 X 181 NM

NOTAMS:

EDW – LAKEBED RUNWAY 15/33 ELS ONLY. OTHER LAKEBED RWYS 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.
BEJ – CLOSED.
FMI – CLOSED.
JDG – CLOSED.
NKT – CLOSED.
GUA – RWY 06L/24R NOT USABLE – CONSTRUCTION.

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 188 – 11/20:17 (SKC 220/06P10)
NOR17 ORB 203 – 12/19:05 (FEW 100 SCT 200 120/08P12)

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 = 34.7 R OMS OX = 33.8
FU = 34.3 FU = 33.6

SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

OMS	335 FPS
ARCS (TOTAL ABOVE QTY 1)	43 FPS
TOTAL IN THE AFT	378 FPS
ARCS (TOTAL ABOVE QTY 2)	76 FPS
FRCS (ABOVE QTY 1)	16 FPS
AFT QTY 1	77 %
AFT QTY 2	39 %

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

END OF PAGE 2 OF 2, MSG 117

Good Morning Takao and Bob!

Q & A

1. HRM Component Kit s/n 1008: The kit you found yesterday is a STS kit. Its home is MA9L.

Multimeter

Based on your call-downs, we have determined that we have conflicting data regarding the identifying numbers on the Multimeter. To ensure that you will be in a good Multimeter configuration after undock, please help us resolve this by taking the following pictures of the Multimeter and Multimeter Kit that are presently on Endeavour:

With the Multimeter inside of the Multimeter Kit, please photograph:

- Front side of Multimeter Kit, including sewn-on label, and any attached barcodes
- Back side of Multimeter Kit

Please remove the Multimeter from the Multimeter Kit and photograph:

- Front side of the Multimeter
- Bottom edge of Multimeter, including label
- Back side of Multimeter overall and an individual photo of each label and engraved number

Verify Multimeter Kit pocket contains leads (two), probes (two) and battery (one).

Flight Plan

We added the following transfer activities to the timeline and choreography:

- FD13 (today)
  - CWC H/W XFER: Dom will transfer items 8 and 8.1 (Sample Purge Kit) and 9 (Silver Biocide Syringe Kit).
  - ITCS XFER: Leo will transfer item 902 (ITCS sample).
  - MULTIMETER-PHOTO: Takao will take photos of the multimeter and kit as stated in the transfer message.
- FD14
  - IMMN-1JA SALIVA-XFER: Leo will transfer item 721 (Saliva Collection Kit)
  - TVIS-XFER: Leo will transfer item 725 (TVIS card)
  - ESA XFER: Leo will transfer items 606 – 606.3 (Crew Pref CTB), 904 (ESA MEDIA KIT), and 905 (ERB Hard Disk).

Sample Purge Kit

- We added item 8.1 to the Transfer List. This is a ziplock of items to be added to the new sample purge kit.

For STS, the Transfer List Excel file, FD13_TransferList_STS123.xls, is located on the KFX machine in **C:\OCA-up\transfer**.

For ISS, the Transfer List Excel file, FD13_TransferList_STS123.xls, is located in **K:\OCA-up\transfer**.

Choreography

- MULTIMETER-PHOTO (Takao): Take photos of the multimeter per the plan stated above
- Item 43 (Dom): Transfer MSG Glove Rings from MERLIN per MRLN GLVRG
- Items 8, 8.1 & 9 (Dom): Transfer Sample Purge Kit and Silver Biocide Kit to ISS during CWC H/W XFER
- Item 902 (Leo): Transfer Columbus ITCS Sample during ITCS-XFER.

Crewmembers Scheduled for Generic Xfer Ops

None

Please update the Transfer List as follows:

In **LAYOUTS** tab (from MSG 122):

Replace Page L-2
Replace Page L-8
Insert Pages L-10 through L-12

In **RESUPPLY** tab:

Replace Page 3

Make Pen and Ink change to Resupply Page 2:
Item 3a: In PROCEDURES/Constraints/ **Comments column, replace “PCS DEACT & XFER” with “PCS / PGSC DEACT & XFER”

Make Pen and Ink change to Resupply Page 10:
Item 802: In PROCEDURES/Constraints/ **Comments column

- Replace “TBD WLES Prep for Xfer” with “PCS / PGSC DEACT XFER”
- Replace “Qualtech RS-422” with “wireless RF network”

Please call us with questions.
- The Transfer Team

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				8	Sample Purge Kit [s/n 1005]	1	MD CEIL PORT 2 (Bag F)	Vol D temp stowed	NOD2P2 (in M-02 bag, s/n 1026)	2.89	**Do not transfer until all CWC fills are complete.** **Before transfer, remove remaining empty sample bags (P/N SED46113541 302) from other STS Sample Purge Kit s/n 1002 and stow in this Sample Purge Kit s/n 1005. STS Sample Purge Kit s/n 1002 does not transfer. **RECORD quantity of sample bags transferred_____. Report to MCC. **Retrieve item 8.1 from ISS and stow in this kit. **Ref H2O Ops cue card.
X				8.1	Items scavenged from Sample/Purge Kit Assy 1001	1 ziplock	LAB1O6		NOD2P2 (in Sample Purge Kit, in M-02 bag, s/n 1026)		**Stow this ziplock inside item 8.
				9	Silver Biocide Syringe Kit [s/n 1002]	1	MD CEIL PORT 2 (Bag F)	Vol D temp stowed	NOD2P2 (in M-02 bag, s/n 1026)	1.34	**Do not transfer until all CWC fills are complete.** **Ref H2O Ops cue card.
	☑	4		10	7/16" x 6" WOBBLE	1 ziplock	MD EXT A/L FLOOR		A/L1O0 behind closeout (in 1.0 CTB, s/n 1161)	0.50	
	☑	4		11	NEEDLE NOSE PLIERS	1 ziplock	MD EXT A/L FLOOR		A/L1O0 behind closeout (in 1.0 CTB, s/n 1075)	1.10	**Transfer with item 12.

JLP FINAL CONFIGURATION CHECK

JLP Items Configuration Check

No	Items	Check items	NOTE
1	☐ 1.0 CTB; "JEM ITEMS" (S/N 1313)	Location stored: _____	Transferred from Shuttle. This CTB must have been in NOD2D2 by FD04 Xfer Ops.
2	☐ 2.0 CTB; “CTB-J-D2”	Location stored: _____	Launched in JRSR front. This CTB must have been in NOD2D2 by FD06 JLP RACK FRONT STOW RELOCATE.
3	☐ 1.0 CTB; “CTB-U-S1”	Location stored: _____	Launched in JRSR front. This CTB must have been in NOD2D2 by FD06 JLP RACK FRONT STOW RELOCATE.
4	☐ 24"x24" Ziplock (P/N 528-50000-8)	Number not used: _____ Location stored: _____	Total 7 launched in CTB “MKAK”.
5	☐ 9”x15" Ziplock (P/N 528-50000-7)	Number not used: _____ Location stored: _____	Total 10 launched. These were retrieved from JRSR front panel and stowed on JRSR front panel according to {3.100 JLP RACK FRONT STOWAGE RELOCATE} Table 1 executed on FD06.
6	☐ 6”×6” Ziplock (P/N 528-50000-2)	Number not used: _____ Location stored: _____	Total 4 launched in (No.5) 9”x15” Ziplock.
7	☐ 12”×12” Ziplock (P/N 528-50000-5)	Number not used: _____ Location stored: _____	Total 18 launched. in (No.5) 9”x15” ziplocks.
8	☐ Hard Dummy Panel Straps [Qty 6]	Location stored: _____	Launched in JEM Bag 14. These Straps must have been in Ziplock “JEM Straps” by FD08 Stowage Note (re-stow) for Hard Dummy Panel Assy. But Hard Dummy Panel was secured by Bungee.

Rick, Bob, Mike, Peggy, and Garrett,

Glad to hear we were all thinking along the same lines for EVA 5. It's a big one, so stay sharp and have fun. The only changes we have are for Post EVA.

<u>No Metox Regeneration</u>
As a reminder, we've deleted the Post EVA 5 Metox Regeneration initiation and will start one tomorrow on FD14.

<u>EMU 3003 Water Dump</u>
During prep for EVA 4, we noticed Bob's suit, EMU 3003, had acquired a small gas bubble in the water tanks displacing about 0.6 lbs of water from 9 lbs total. Although the displacement is currently within limits, we want to remove the bubble prior to the suit's next use on 1J.

For efficiency reasons, we would like to perform a full water dump on EMU 3003 today during POST EVA 5 water recharge.

When you get to 1.240 POST EVA, step 39, perform the water recharge procedure as follows to dump EMU 3003 and then initiate water recharge on both suits:

Perform {**1.506 EMU WATER RECHARGE POST UIA CAP AND PLUG**}:

EMU 3003/3008 1. Perform steps **2 thru 11**

EMU 3003 (Be) only 2. Perform steps **28 thru 33, 35**
In step 32, Wait ~ 5 to 10 min to dump EMU 3003 Verify H2O WP < 7.0 and stable and no bubble flow into CWC visible

EMU 3003/3008 3. Pick up in step **12** to nominally recharge both suits

DESCENT MODULAR LOCKER LAYOUT

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:	3–21–08
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

LW MAR 8929–326

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

ML60E 0633 –306
PGSC/
PGSC ACCESS
ITEM #611

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

VOL B 7436 –314

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

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

MF43C 1900 –308
MF57C 1902 –308
MF71C 1901 –305

MIDDECK FORWARD

MF14E 2760 –306
H20 SAMPLES
ITCS SAMPLES

MF28E 5452 –327

MF43E 0663 –301
COLDBAG
MELFI

MF57E

MF71E 7463 –303
MERLIN
WAICO

MF14G 2761 –308
ITEM #401

6300 –345 MF28G 6250 –353
IFM TOOLS
MULTIMETER

MF43G 6240 –311

MF57G 5473 –305

MF71G 6697 –327

MF14H 2763 –304

MF28H 6231 –349
POST INSERTION
ALTIMETER

MF43H 3005 –304

MF57H 1904 –307

MF71H 1903 –305

MF14K 2764 –306

MF28K 2767 –304
ITEM #402
ITEM #403

MF43K 0665 –301
BLOOD SAMPLE
SALIVA ASSY
WAICO TAPE
GAPS (4)
PCMCIA RAM
HCTB (0648–304)
3DPCU
ESA MEDIA KIT
ERB HARD DISK

MF57K 6209 –304
CREW FEET

MF71K 8967 –302
GAPS (12)

MF14M 2765 –304

MF28M 2768 –303

MF43M 6299 –318

5962 –303 MF57M 6269 –307
6256–303

MF71M 0663 –301
COLDBAG
IMMUNO

MCIU

MF14O 2766 –305

MF28O 2769 –309

PDI

MF71O 0639 –301

MIDDECK AFT

MA9D/F 9882 –304
SPARE DTV
HDW
LiOH (3)

MA16D 8719 305

MA16F 8047 –304

MA9G 8965 –308

MA16G 8737 –307
RCC NOAX
DOUBLE COLD BAG

MA9J 0634 –304
PCS A31P LAPTOP
CD CARRYING CASE
PWR SUPPLY

MA16J 8723 –302

MA9L 0631 –302

MA16L 1908 –309

MA9N 7432 –327
SOFT STWG BAGS
PHK'S (6) 4980–309
CCK/LT STICKS 8071–318
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 7482 –303
(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
7406 –316 (STBD) 2–EMUs 7403 –317 (PORT)
BAG #604 (0788)
LIOH (3)
RETRACT EQUIP TETHS (17)
SAFETY TETH (2)
ADJ EQUIP TETH (6)
EVA THERMAL SENSOR
BATTERIES
0583 –306

MD CEIL 0617 –309 (PORT 1) A
BAG #400 (0781)
BAG #404 (0782)
BAG #405 (0789)
BAG #406 (0780)
BAG #407 (0783)

MD CEIL 0618 –309 (PORT 2) D
BAG #408 (0784)
BAG #409 (0785)
BAG #410 (0786)
ITEM #610
CDMK
INTEGRATED SALIVA KIT
RPCM TYPE–5

MD CEIL 0615 –304 (STBD 1) G
BAG #603 (0787)
ITEM #607 (BRIEF/
WAIST ASSY)

MD CEIL 0636 –305 (STBD 2) H
PHASE IV GLOVES
CLPA BOX
RSK FOAM
ACES ACCESS

MD FLOOR 0664 –301 (PORT 2) B
CDRA

MD FLOOR 0613 –304 (PORT 1) E
CLOTHING BAG (4)
HYGIENE
BAG #605
BAG #606
BACTERIA FILTERS

MD FLOOR 0614 –305 (STBD 2) F
ITEM #609 (SAMPLE
PURGE KIT)
SILVER BIOCIDE
CLOTHING BAG (2)
MINERAL KIT
PURGE KIT ASSY
NADA CHAIR (2)
OCA

MD FLOOR 0582 –306 (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

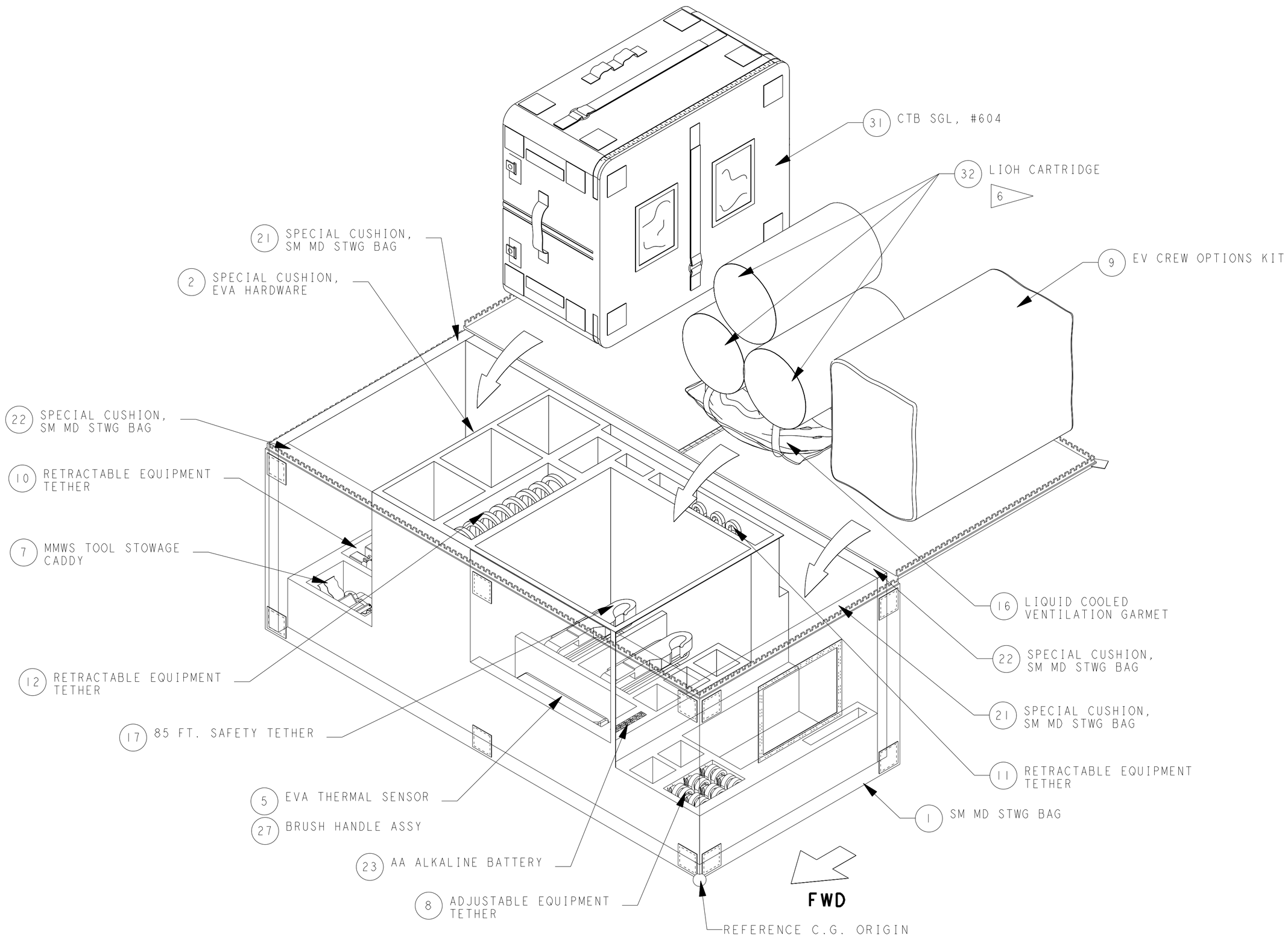
✳ NOT APPROVED
● L–24 LATE LOAD
⊠ SWAP
⊗ TRANSFER HARDWARE
CTB CARGO TRANSFER BAG
HCTB HALF CARGO TRANSFER BAG

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

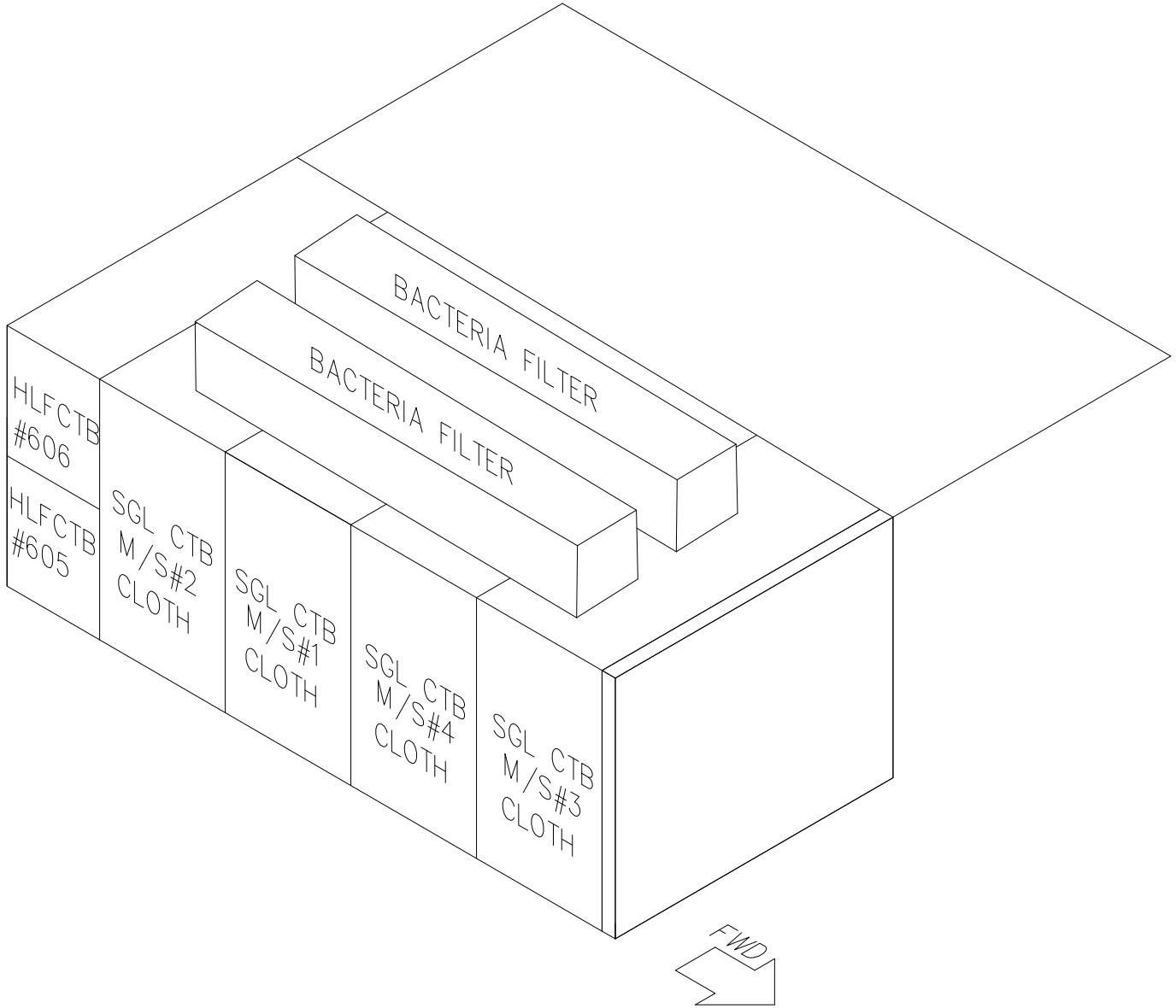
/USR/DWGS/LOCKER/STS123



-306 ASSY

SIZE	CAGE CODE	DWG NO	REV
C	21356	SED32110583	TST
SCALE N/A	ORG MO	FMT P02MAY04	SHEET 4 OF 4

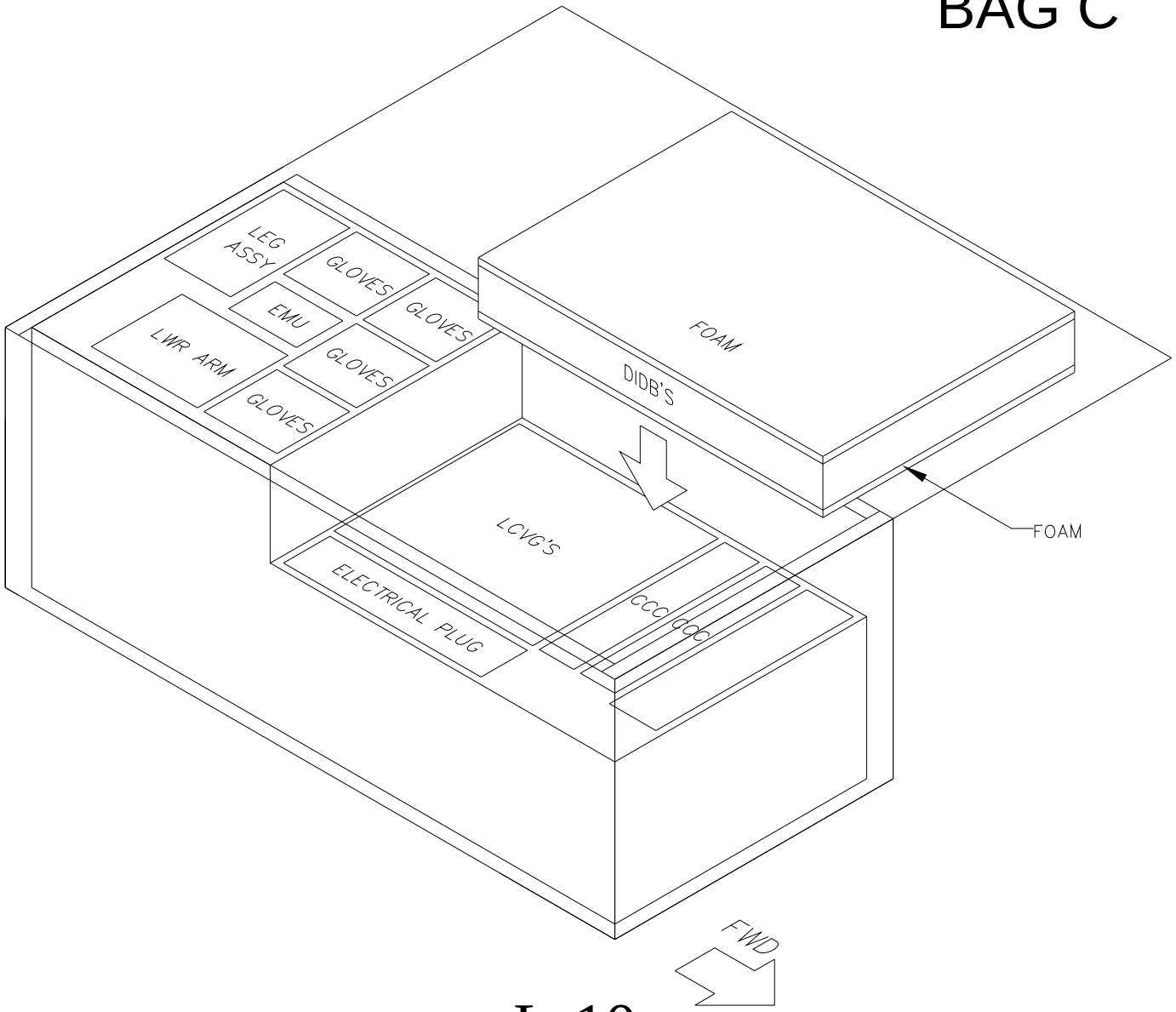
MD FLOOR PORT 1
BAG E



L-8

END OF 3 OF 5, MSG 122

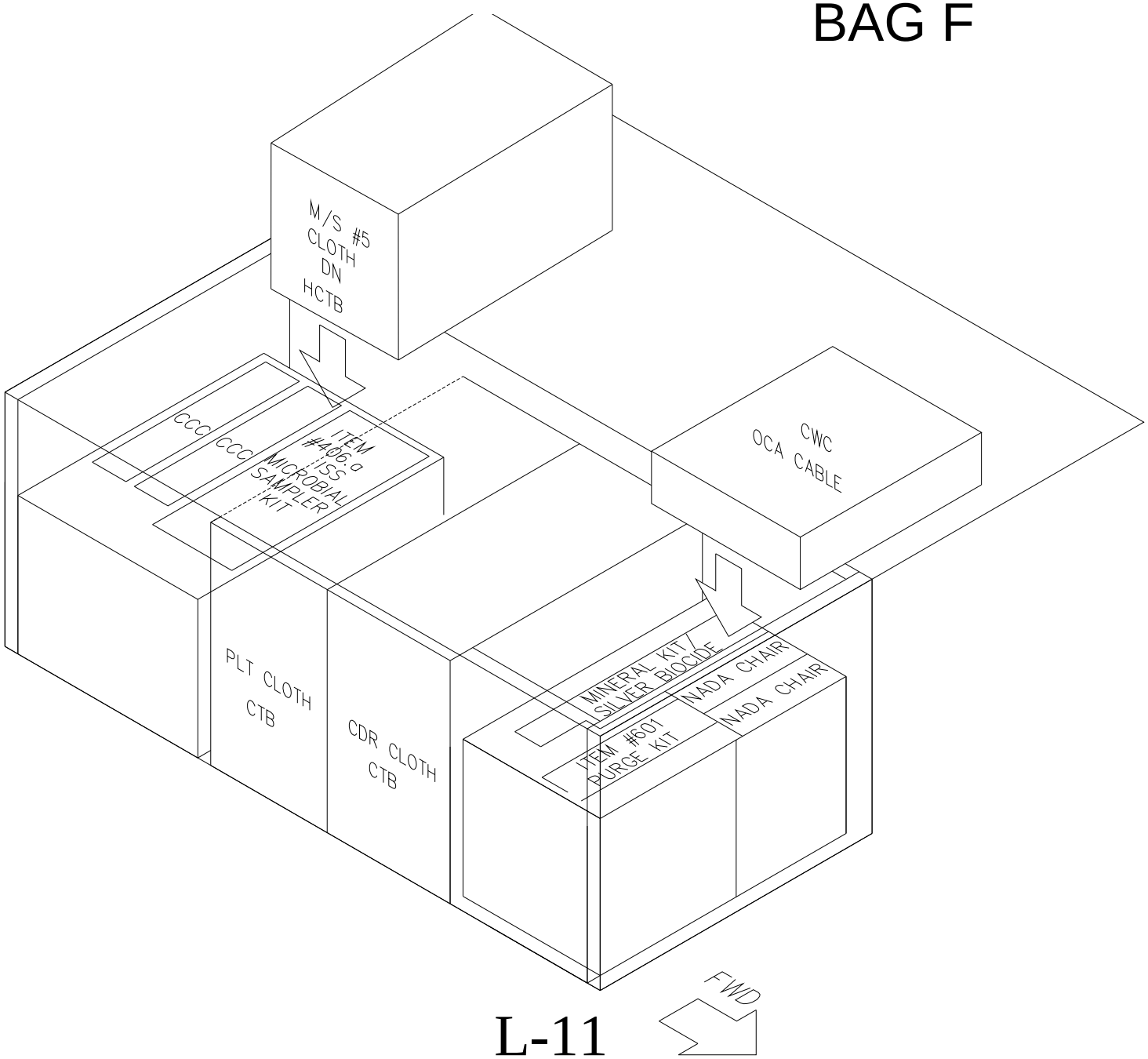
MD FLOOR STBD 1
BAG C



L-10

END OF 4 OF 5, MSG 122

MD FLOOR STBD 2
BAG F



L-11

END OF 5 OF 5, MSG 122

FD12 MMT Summary

The MMT met to review mission progress and orbiter status. The TRAD team are very pleased with the results of the DTO and are looking forward to testing the samples upon your return. Endeavour continues to perform well, and there are no changes to her systems status.

LiOH transfer and CO2 - The LiOH transfer plan was discussed and the MMT concurred with the plan. The plan will transfer a total of 6 LiOH cans from the ISS stockpile. These 6 cans will provide 16+0+2 capability and account for the additional metabolic rates that have been previously observed. The option to bring an extra 4 cans to provide for an extra undocked, weather extension day was discussed, but all agreed that was not required. In addition, the plan to improve Node 2 air circulation was briefly discussed. The details of this plan will be provided to you by the Flight Control Team.

EVA Status - Upon reviewing the photos post EVA#4, both left gloves for EV2 and EV3 are go for EVAs. There is a request on board for more photos of the right thumb area of EV3's glove due to concern with a suspect inseam. Also, there were no images of EV2's right thumb inboard seam so additional pictures have also been requested.