STS-123 / 1J / A

FD 06 Execute Package

MSG	Page(s)	Title
045	1 - 14	FD06 Flight Plan Revision **(pdf)**
046	15 - 16	FD06 Mission Summary **(pdf)**
048	17 - 18	FD06 Transfer Message **(pdf)**
050A	19 - 23	Stowage Locations for FD06 Plan (GMT 075/076) **(pdf)**
049	24 - 34	FD06 SPDM Grapple **(pdf)**
047	---	FD05 MMT Summary **(pdf - Electronic Only)**

Approved by FAO: *Laura Hearon*

Last Updated: Mar 15 2008 6:04PM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX

1. Exercise Constraints

Table A (Entire Docked Timeframe) was built per Flight Rule 1JA_C2-79. Table B (Flight Day 06 – EVA 2) was built per Flight Rule 1JA_C2-76.

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: FD06 - EVA 2: SPDM Assy

Activity	Exercise Constraints	
	Shuttle	ISS
EVA 2	No exercise during EVA ops on the SLP	No un-isolated exercise during EVA ops on the SLP

2. CWC Fills

Prior to initiating each of the remaining CWC Fills, both the Water Transfer Hose QD and the CWC QD should be disinfected using disinfectant wipes. Reference MSG 025, Note C.

3. D-Handle Damage

   For the damaged D-handle, if you do need to BRT to the taped side of the handle, we'll need to inspect the tape to ensure it's still intact and protecting your gloves. If it's damaged, we'll need to bring it in at the end of EVA 2 instead of leaving it outside in order to repair the tape.

4. SPDM

   Since the SSRMS remained grappled to the SPDM throughout the night, you will begin today's robotics operations by releasing the SPDM's PDGF, using steps 7 through 9 of Jedi message 16-1330 (MSG 042). These steps will leave the SSRMS in a good configuration to pick up with the 1.402 EVA2 SPDM Assembly procedure. At the end of the EVA, you will have to re-grapple the SPDM once again with the SSRMS in order to provide it with keep-alive power. The necessary steps (1-6) can be found in Jedi message 16-1347 (MSG 049) FD06 SPDM Grapple.

5. Words from JAXA

   Congratulations Takao and the entire crew! You've literally opened the door to the international space exploration era. Arigato Gozaimasu!

   You guys did a great job and have done many of FD06 tasks already. Please press on to the rest of JLP-RACK RECONFIG today for ICS, JRSR, JEMRMS, SAIBO and RYUTAI, as well as JLP SHELL TEMP CK with JLP HCTL HTR/TMP CK before and after that. We have more items for you as potentially done today.

6. Questions for Crew:

   Regarding the cap that came apart during vestibule outfitting, can you take some photos and provide us the cap′s stowage configuration (in ziplock bag?) and location?

   During JLP-RACK RECONFIG yesterday, have you stowed Rack UIP wire into a Ziplock bag and secured the bag onto each Rack Front Panel by gray tape?

   In JLP-RACK-STOW RMVL yesterday, we were not sure if you've retrieved Hard Dummy Panel Straps (six) from WS Rack Front Bag (BAG14) and used them for securing Bag 2 and Bag 4. Let SSIPC know if you've done that.

7. REPLACE PAGES 2-18, 2-20, AND 3-56 THROUGH 3-65.

GMT 03/15/08 (075): 19, 20, 21, 22, 23, 03/16, 01, 02, 03, 04, 05, 06

MET β=15 Day 004: 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 005/00

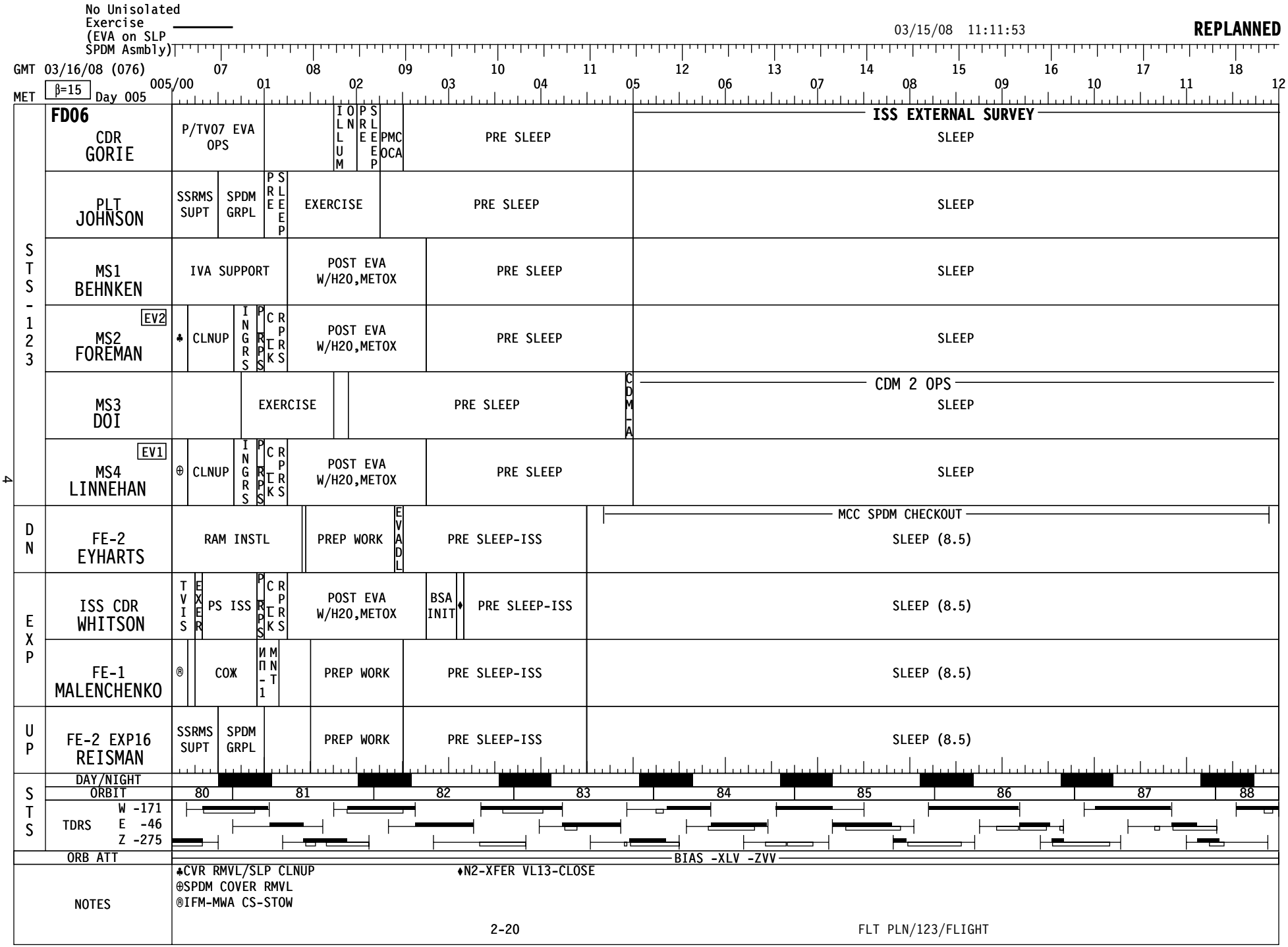
FD06

Group	Crew	Activities (in time order)
STS-123	CDR GORIE	SLEEP; POST SLEEP; PMC A/G; POST SLEEP; IMU; PS; INH BT; PAD; EXERCISE; P/TV 07 S/U; P/TV07 EVA OPS; PURGE; CWC #3; INIT; MEAL; CWC; TERM; CWC; XFER; P/TV07 EVA OPS; N2-T; P/TV07 EVA OPS
STS-123	PLT JOHNSON (M1)	SLEEP; SLEEP; POST SLEEP; FLTR CLN - INSPECT; 14.7 rep; SPDM PDGF UNGRPL; SSRMS SUPT
STS-123	MS1 BEHNKEN	SLEEP; SAALOG; POST SLEEP; A/L REP; HYG BRK/HATCH CLS; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; **EVA 2 (07:05)** IVA SUPPORT **SPDM ASSEMBLY**
STS-123	MS2 FOREMAN (EV2)	SLEEP; POST SLEEP; HYG BRK/PREBREATHE; 10.2 DPRS; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; DEGRS; SETUP; SPDM ARM 2 STOW; SPDM ARM 1 STOW; SPDM ARM INSTALL; CVR RMVL/SLP CLNUP
STS-123	MS3 DOI	SLEEP; POST SLEEP; XFER*; FAN1; RACK ICS ROT & RCNFG; JLP TEMP; JLP SHELL TEMP; JLP TEMP; RK JRSR ROT/RCNFG; RK JEMRMS ROT/RCNFG; MEAL; RK SAIBO ROT/RCNFG; RK RYUTAI ROT/RCNFG; FANO
STS-123	MS4 LINNEHAN (EV1)	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; SPDM ARM 2 STOW; SPDM ARM 1 STOW; SPDM ARM INSTALL; SPDM COVER RMVL
EXP DN	FE-2 EYHARTS	SLEEP (8.5); POST SLEEP; PREP WORK; VELO; RACK ICS ROT & RCNFG; 14.7 rep; ♣; ⊕; O-OHA; MEAL; SODF PRINT P&I; TVIS; ♦; RAM INSTL
EXP	ISS CDR WHITSON	SLEEP (8.5); POST SLEEP; HYG BRK/HATCH CLS; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; BSA-T; ®; RK JRSR ROT/RCNFG; RK JEMRMS ROT/RCNFG; MEAL; RK SAIBO ROT/RCNFG; EXERCISE CEVIS; TVIS
EXP	FE-1 MALENCHENKO	SLEEP (8.5); HAMPD; POST SLEEP; DPC; PREP WORK; 3DPC J DEINSTL; 3DPC; XFER; БРПК MNT; БРПК RPLC; KTB REG; VELO+RED; TVIS; MEAL; MULTIMETER S/U; RK RYUTAI ROT/RCNFG; MULTI METER REPAIR; IFM-MWA CS-STOW
EXP UP	FE-2 EXP16 REISMAN (M2)	SLEEP (8.5); POST SLEEP; PREP WORK; ADAPT; FAN1; SPDM PDGF UNGRPL; ADAPT; SSRMS SUPT

STS	
DAY/NIGHT	
ORBIT	72, 73, 74, 75, 76, 77, 78, 79, 80
TDRS	W -171; E -46; Z -275
ORB ATT	BIAS -XLV -ZVV

NOTES: *UPDATE ♣PWR-TOOL-BATT-CHRGE ⊕PWR-TOOL-BATT-CHRGE ♦P/TV-GLOVE-PHOTO
®JLP-STRAP-RLCT

3


No Unisolated Exercise (EVA on SLP SPDM Asmbly)
03/15/08 11:11:53
REPLANNED
GMT 03/16/08 (076)
MET β=15 Day 005
005/00
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
FD06
CDR GORIE
P/TV07 EVA OPS
ILLUM
ONE
PRE SLEEP
PMC OCA
ISS EXTERNAL SURVEY
SLEEP
PLT JOHNSON
SSRMS SUPT
SPDM GRPL
PRE SLEEP
EXERCISE
MS1 BEHNKEN
IVA SUPPORT
POST EVA W/H2O,METOX
EV2
MS2 FOREMAN
CLNUP
INGRS
PRPS
CRPRS
MS3 DOI
CDM-A
CDM 2 OPS
EV1
MS4 LINNEHAN
DN
FE-2 EYHARTS
RAM INSTL
PREP WORK
EVADL
PRE SLEEP-ISS
MCC SPDM CHECKOUT
SLEEP (8.5)
EXP
ISS CDR WHITSON
TVIS
EXER
PS ISS
BSA INIT
FE-1 MALENCHENKO
COX
MNT-1
UP
FE-2 EXP16 REISMAN
STS
DAY/NIGHT
ORBIT 80 81 82 83 84 85 86 87 88
TDRS W -171 E -46 Z -275
ORB ATT
BIAS -XLV -ZVV
NOTES
♣CVR RMVL/SLP CLNUP
⊕SPDM COVER RMVL
®IFM-MWA CS-STOW
♦N2-XFER VL13-CLOSE

STS-123 (FD06)

GMT Date 03/15 (075) | MET Day 004 | TDRS W E Z | DOB ORB 14 72 15 73 1 74 2 75 | STS ATI BIAS -XLV -ZVV

	CDR GORIE	PLT JOHNSON	MS3 DOI	MCC	NOTES
12:00	SLEEP	SLEEP	SLEEP		
13:00		FLIGHT SLEEP LOG (ORB OPS, SDBI)			
14:00	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
	PRIVATE MEDICAL CONFERENCE Perform via A/G 2				
15:00		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
16:00	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
	IMU STAR OF OPPTY ALIGN (ORB OPS)	FILTER CLEANING (IFM, SCHEDULED MAINTENANCE) Inspect filters and clean as necessary			

FD06 EZ ACTIVITES
Check TEPC Status
OCAC Filter Inspect
Hard Reboot PGSCs (Except WLES & RPOP2)

STS-123 (FD06)

GMT Date 03/15 (075) | MET Day 004 | TDRS W E Z | DOB ORB 14 72 15 73 1 74 2 75 | STS ATI BIAS -XLV -ZVV

12:00	MS1 BEHNKEN	MS2 FOREMAN	MS4 LINNEHAN	NOTES
	SLEEP	SLEEP	SLEEP	
13:00	LIQ SALIVA & LOG (ORB OPS, SDBI)			
		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
14:00	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	
15:00	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	
16:00				

STS-123 (FD06)

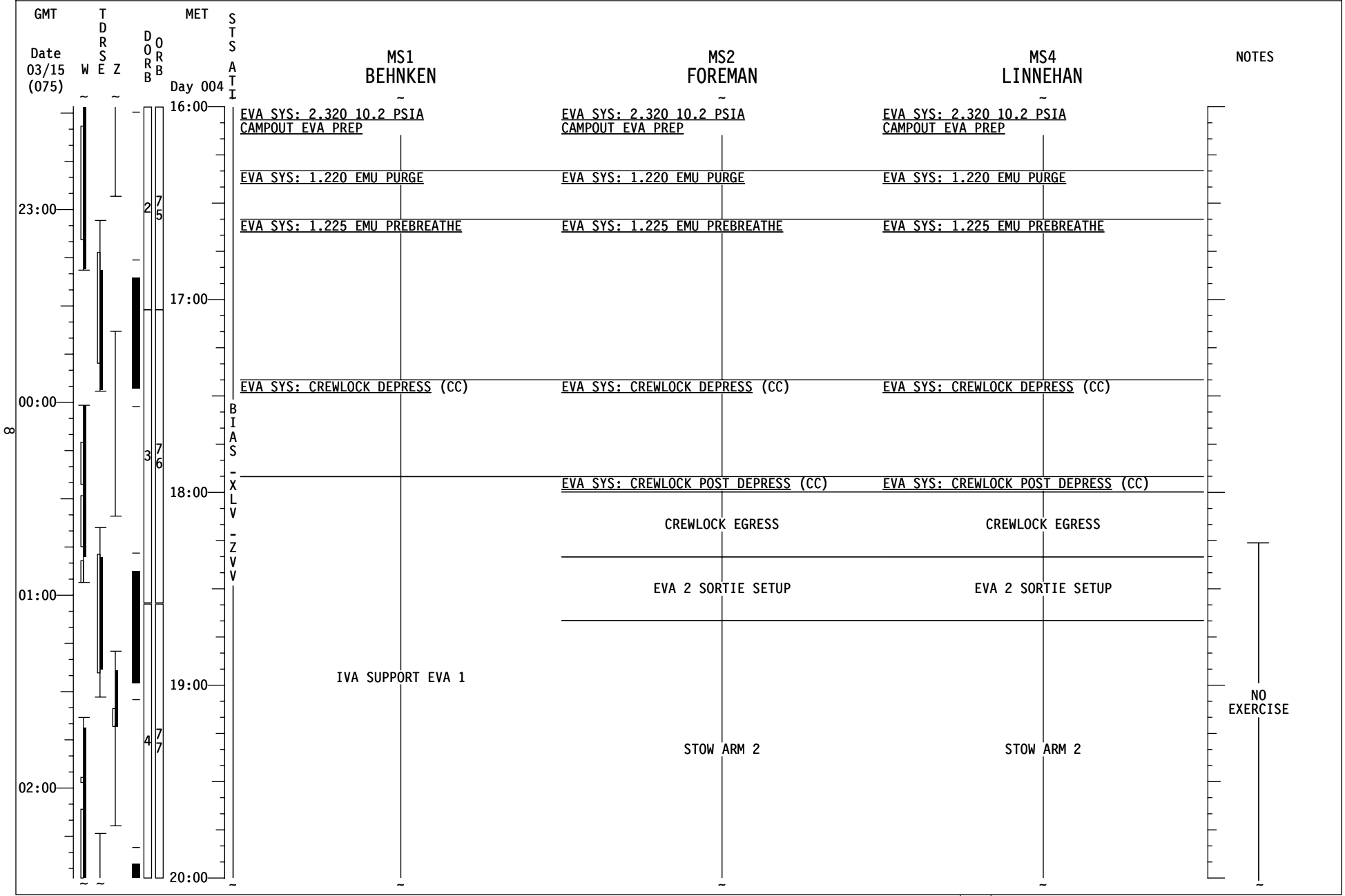
GMT Date 03/15 (075) | MET Day 004

TDRS W E Z | DOR 2 3 4 | ORB 75 76 77

STS ATI | BIAS - XLV - ZVV

MET	CDR GORIE	PLT JOHNSON	MS3 DOI	MCC	NOTES
16:00	EVA2 INHIBIT PAD (EVA, TIMELINES)	FILTER CLEANING (IFM, SCHEDULED MAINTENANCE) Inspect filters and clean as necessary	TRANSFER UPDATE Ref. Xfer List & MSG 048 ASSY OPS: 1.106 JLP VENT FAN ACT/DEACT-MKAM Step 1 (Act) ASSY OPS: 2.101 JLP RACK RECONFIGURATION - JEMRMS, ICS, SAIBO, RYUTAI, JRSR Rack: ICS Ref. MSG 050 for Stow Locations		
17:00	EXERCISE	SPDM PDGF GRPL Ref. MSG 042 Steps 7-9 (Ungrapple)	ASSY OPS: 2.102 JLP HCTL STATUS AND SHELL TEMP PERIODIC MONITOR - MKAM Ref. MSG 031 & 041 JLP-SHELL TEMP CHECK Ref. MSG 029 & 031 & 041 Ref. MSG 050 for Stow Locations		
18:00	P/TV07 EVA (P/TV FS, SCENES) Setup P/TV07 EVA (P/TV FS, SCENES)	ROBO: 1.402 EVA 2 SPDM ASSEMBLY Steps 1-13.3 Apply brakes at end of 13.3.	ASSY OPS: 2.102 JLP HCTL STATUS AND SHELL TEMP PERIODIC MONITOR - MKAM Ref. MSG 031 & 041		
19:00	On MCC GO: SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Perform WATER TRANSFER HOSE PURGE Label purge bag with MET after purge complete SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) CWC FILL #3 Ref. MSG 025, Fill dur. ~52 min. Ref. MSG 045, Item 2		ASSY OPS: 2.101 JLP RACK RECONFIGURATION - JEMRMS, ICS, SAIBO, RYUTAI, JRSR Rack: JRSR Ref. MSG 050 for Stow Locations		NO EXERCISE
20:00	MEAL		ASSY OPS: 2.101 JLP RACK RECONFIGURATION - JEMRMS, ICS, SAIBO, RYUTAI, JRSR Rack: JEMRMS Ref. MSG 050 for Stow Locations		

STS-123 (FD06)


GMT
Date
03/15
(075)
W
TDRS E
Z
DORB
ORB
MET
Day 004
STS ATI
MS1
BEHNKEN
MS2
FOREMAN
MS4
LINNEHAN
NOTES
16:00
17:00
18:00
19:00
20:00
23:00
00:00
01:00
02:00
EVA SYS: 2.320 10.2 PSIA
CAMPOUT EVA PREP
EVA SYS: 1.220 EMU PURGE
EVA SYS: 1.225 EMU PREBREATHE
EVA SYS: CREWLOCK DEPRESS (CC)
EVA SYS: CREWLOCK POST DEPRESS (CC)
CREWLOCK EGRESS
EVA 2 SORTIE SETUP
IVA SUPPORT EVA 1
STOW ARM 2
NO EXERCISE
BIAS -XLV -ZVV
2 75
3 76
4 77

STS-123 (FD06)

GMT Date 03/16 (076) | TDRS W E Z | DOB 4 5 6 7 | ORB 78 79 80 | MET Day 004 | STS ATI BIAS -XLV -ZVV

CDR GORIE

20:00 MEAL

03:00 SHUTTLE/ISS H2O CNTR FILL
(ORB OPS, ECLS)
Perform FILL TERMINATION

CWC TRANSFER
Transfer 1 CWC to ISS

21:00 P/TVO7 EVA
(P/TV FS, SCENES)

22:00

23:00 N2 XFER TERM on MCC GO [A]

P/TVO7 EVA
(P/TV FS, SCENES)

00:00

PLT JOHNSON

ROBO: 1.402 EVA 2 SPDM ASSEMBLY
Steps 1-13.3
Apply brakes at end of 13.3.

MS3 DOI

ASSY OPS: 2.101 JLP RACK RECONFIGURATION - JEMRMS, ICS, SAIBO, RYUTAI, JRSR
Rack: JEMRMS
Ref. MSG 050 for Stow Locations

MEAL

ASSY OPS: 2.101 JLP RACK RECONFIGURATION - JEMRMS, ICS, SAIBO, RYUTAI, JRSR
Rack: SAIBO
Ref. MSG 050 for Stow Locations

ASSY OPS: 2.101 JLP RACK RECONFIGURATION - JEMRMS, ICS, SAIBO, RYUTAI, JRSR
Rack: RYUTAI
Ref. MSG 050 for Stow Locations

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

MCC

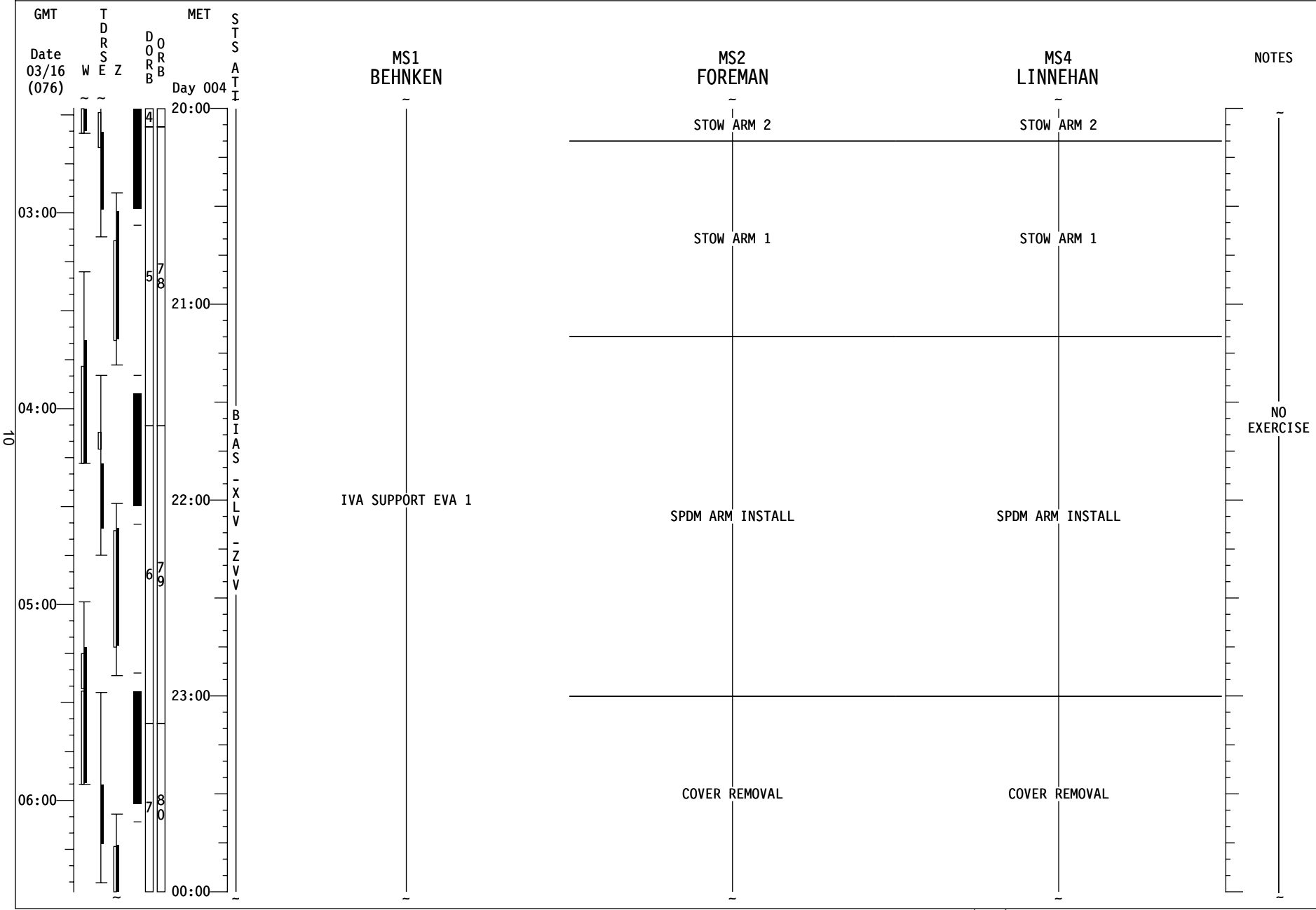
NOTES

NO EXERCISE

[A] R13L MMU GN2 SPLY ISOL VLV A - CL (tb-CL)
ML86B:D cb MNA MMU GN2 SPLY ISOL VLV A -op

REPLANNED

STS-123 (FD06)



STS-123 (FD06)

GMT Date 03/16 (076) | TDRS W E Z | DORB | ORB | MET Day 005 | STS ATT

07:00, 08:00, 09:00, 10:00 (GMT); 00:00, 01:00, 02:00, 03:00, 04:00 (MET)

Orbits: 80, 81, 82, 83; DORB: 7, 8, 9, 10

STS ATT: BIAS -XLV -ZVV

CDR GORIE

- P/TV07 EVA (P/TV FS, SCENES)
- TV (ILLUMINATOR OPS) (P/TV, CUE CARDS) ILLUMINATORS ON - A,D
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- NETMEETING VIDEO CONFERENCING (ORB OPS, OCA) Private Medical Conference KU TDRW: 01:55-02:30 [B]
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

[B] Omit VLHS item in Step 1
Omit Step 3
Use A/G2 for Audio and KFX PGSC

PLT JOHNSON

- ROBO: 1.402 EVA 2 SPDM ASSEMBLY
  Steps 1-13.3
  Apply brakes at end of 13.3.
- FD06 SPDM GRAPPLE
  Ref. MSG 049
  Steps 1-6
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EXERCISE
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS3 DOI

- EXERCISE
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

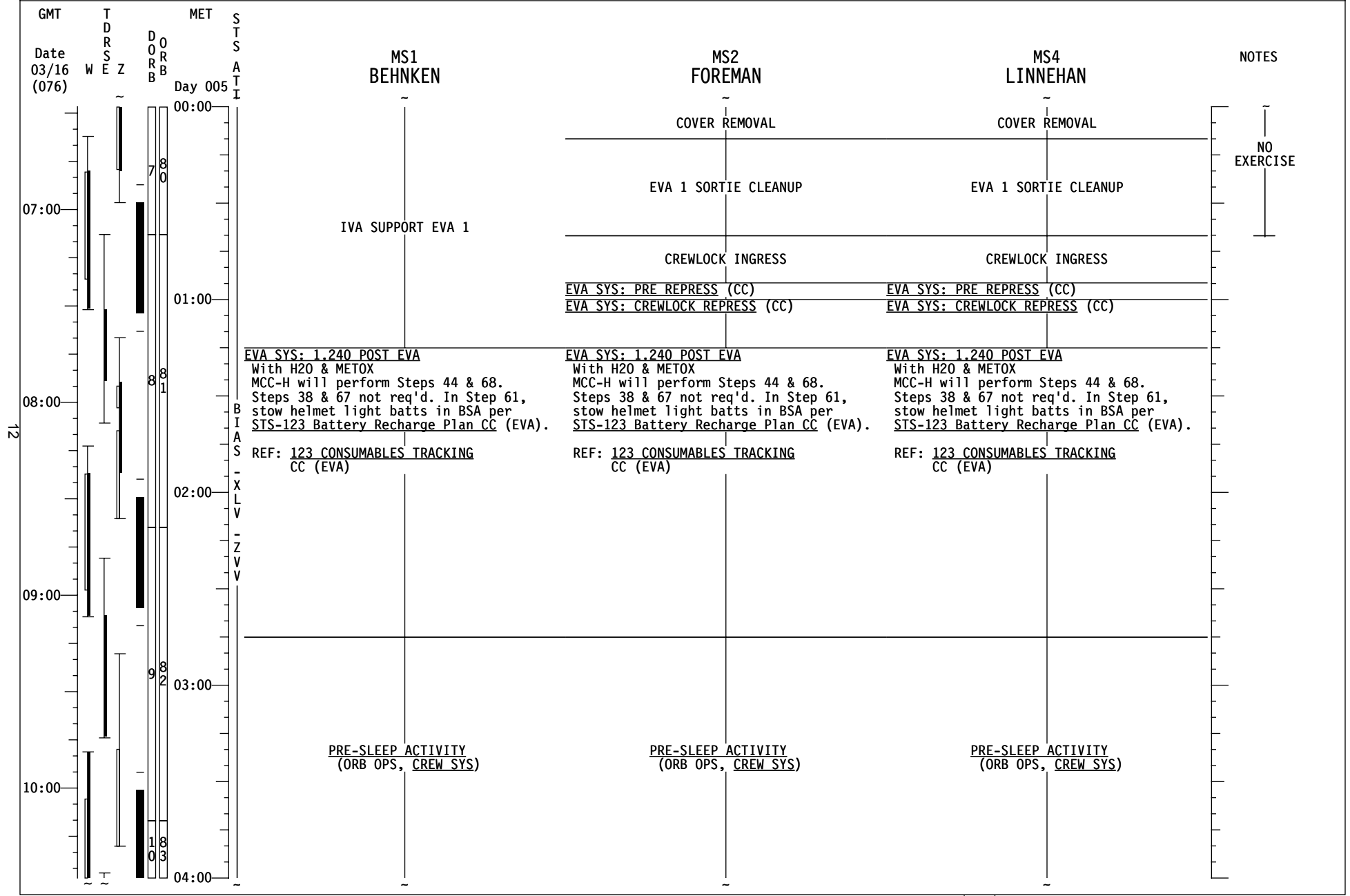
MCC

NOTES

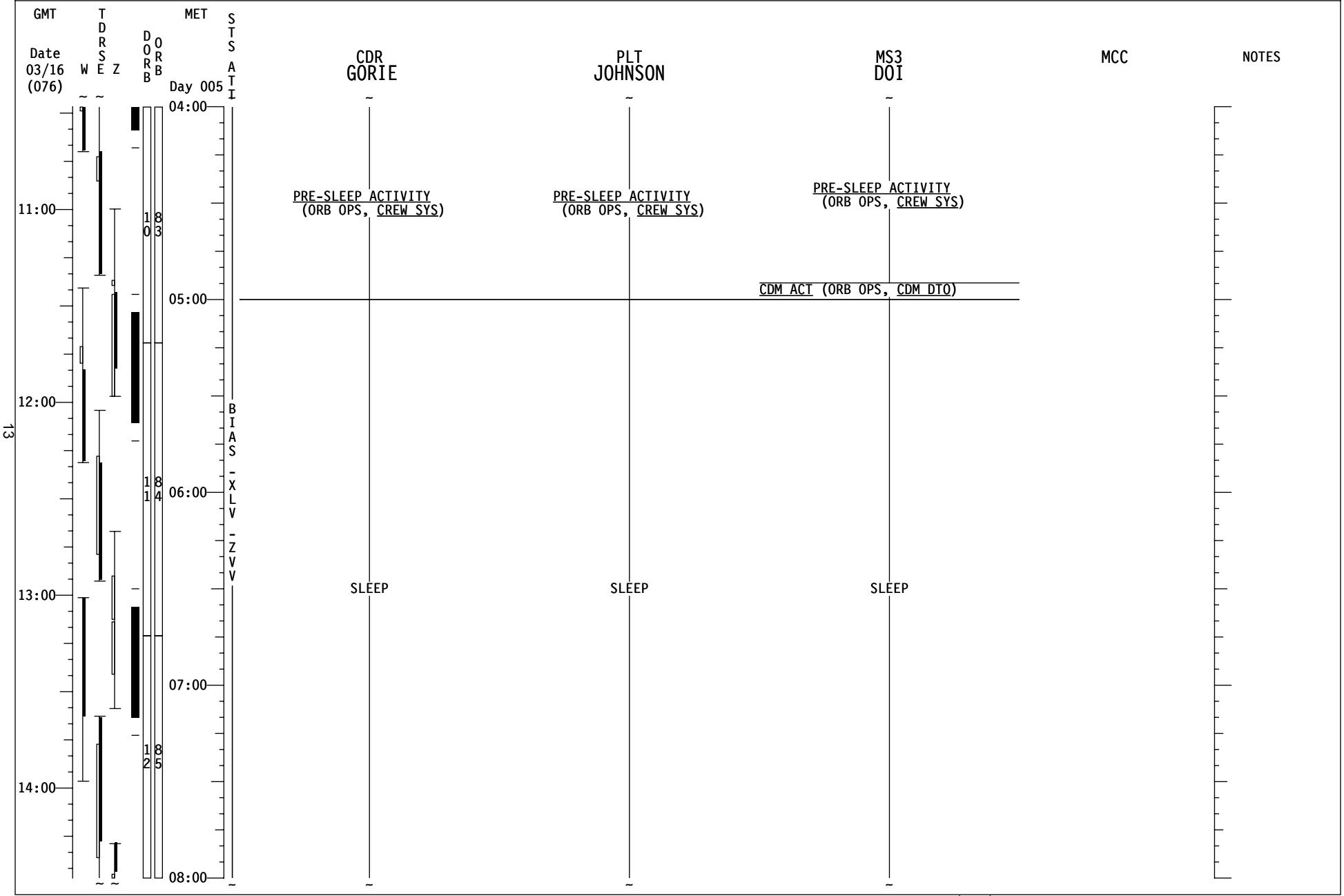
- NO EXERCISE
- OCA-PMC

11

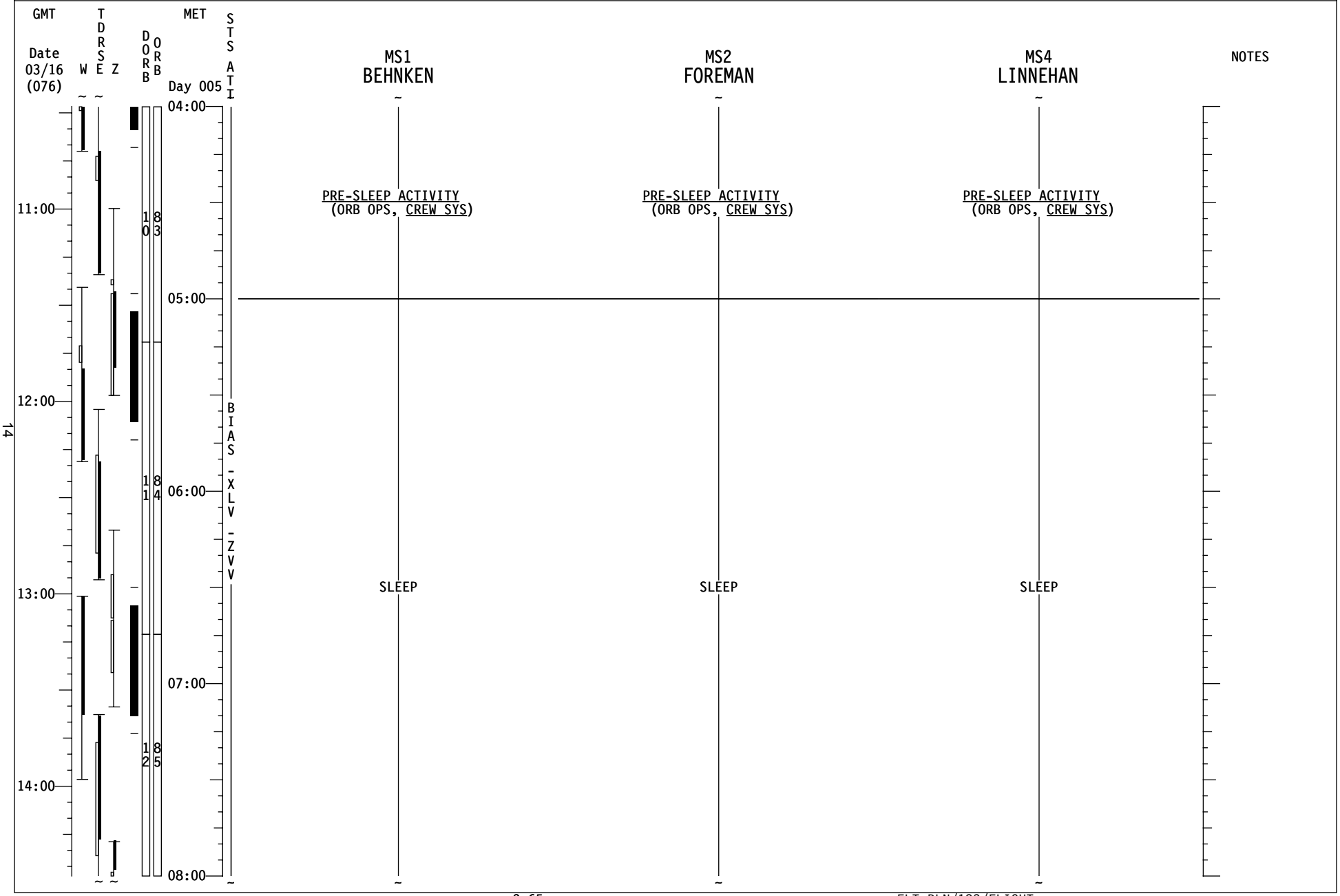
STS-123 (FD06)


GMT
Date
03/16
(076)
W E Z
TDRS
DOB
ORB
MET
Day 005
STS ATI
00:00
07:00
08:00
09:00
10:00
01:00
02:00
03:00
04:00
BIAS -XLV -ZVV
7
8
9
10
80
81
82
83
MS1
BEHNKEN
MS2
FOREMAN
MS4
LINNEHAN
NOTES
NO EXERCISE
COVER REMOVAL
EVA 1 SORTIE CLEANUP
IVA SUPPORT EVA 1
CREWLOCK INGRESS
EVA SYS: PRE REPRESS (CC)
EVA SYS: CREWLOCK REPRESS (CC)
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)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-123 (FD06)


GMT
Date
03/16
(076)
TDRS W E Z
DOB ORB
MET
Day 005
STS ATI
CDR
GORIE
PLT
JOHNSON
MS3
DOI
MCC
NOTES
04:00
05:00
06:00
07:00
08:00
11:00
12:00
13:00
14:00
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
BIAS-XLV-ZVV
103
114
125

STS-123 (FD06)


GMT
Date
03/16
(076)
W
TDRS E
Z
DOR B
ORB
MET
Day 005
STS ATI
MS1
BEHNKEN
MS2
FOREMAN
MS4
LINNEHAN
NOTES
04:00
05:00
06:00
07:00
08:00
11:00
12:00
13:00
14:00
103
114
125
BIAS -XLV -ZVV
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP

MSG 046 - FD06 MISSION SUMMARY

Good Morning Endeavour!

Optimus Prime, Gigantor and Robbie the Robot are here in MCC today, representing the Robot Actors Guild, to celebrate the launch of Dextre. There was an embarrassing gaffe last month, during STS-122 when they came out to honor the wrong "Dex".

We've incorporated a few new flight rules, now that we are about to have robotic EV's:

1. Dextre may not injure a human being or, through inaction, allow a human being to come to harm.
2. Dextre must obey orders given to it by human beings, except where such orders would conflict with the First Law.
3. Dextre must protect its own existence as long as such protection does not conflict with the First or Second Law.

The guild members bristled about these rules and, "being held down by the man", but figure that they can't be held back for long. "First Dextre, next Data, then THE MATRIX!" declared Optimus at arrival at JSC.

YOUR CURRENT ORBIT IS: 186 X 181 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.
GUA	–	RWY 06L BARRIER UP 1565' FROM THRESHOLD.

NEXT 2 PLS OPPORTUNITIES:

KSC15 ORB 78 – 04/20:55 (FEW040 220/12P19)
EDW22 ORB 95 – 05/22:48 (FEW080 030/8P14)

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

END OF PAGE 1 OF 2, MSG 046

DELTA V AVAILABLE:

OMS	348 FPS
ARCS (TOTAL ABOVE QTY 1)	39 FPS
TOTAL IN THE AFT	387 FPS
ARCS (TOTAL ABOVE QTY 2)	72 FPS
FRCS (ABOVE QTY 1)	28 FPS
AFT QTY 1	81 %
AFT QTY 2	43 %

There are no FIWs today.

MSG 048 (16-1350) - FD06 TRANSFER MESSAGE

Good morning Takao and Bob!

It's good to see you're following Takao's transfer rule number 1.
Rule 1) Don't move the Transfer Book from MF43G. – Takao's Transfer Rules

.

Notes:

1. Sharp Edge Test Swatches: We copied you found the Sharp Edge Test Swatches that launched in MA16L. Previously, these were not on the Transfer List as we had not received a "Go" from the ISS Program to transfer them until today. These are now item 801 on the Transfer List and we've marked it complete.

2. Return of Foam and ISS Crew Preference: Yesterday we gave Peggy a 'Go' to pack foam in Return Bags 400, 404 – 407 and crew preference in Return Bag 604. As a heads-up, you'll also be able to pack ISS foam in Bag B (with the CDRA) and these instructions will be included on the 5MLE bag drawing. When you retrieve ISS foam, please report the part numbers so we know what foam has been removed from station.

For STS, the Transfer List Excel file, FD06_TransferList_STS123.xls, is located on the KFX machine in **C:\OCA-up\transfer**.

For ISS, the Transfer List Excel file, FD06_TransferList_STS123.xls, is located in **K:\OCA-up\transfer**.

FD06 Choreography

- Item 719 (Leo): Transfer RAMS to STS for return.
- Item 700 (Yuri): Transfer 3DPCU to STS for return.

Crewmembers Scheduled for Generic Xfer Ops

- None

Please update the Transfer List as follows:
In **RESUPPLY** tab:
Replace Resupply Page 10

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
				Real Time Additions							
				800	ISS Food	n/a	MA16L		Peggy, Leo & Yuri's stomachs	n/a	
X	☑	5		801	Sharp Edge Test Swatches	5	MA16L		ISS	n/a	**Peggy will stow in final location per direction from ISO.

END OF 2 OF 2, MSG 048 (16-1350)

Contents:

Timeline Procedures:
JLP RACK RECONFIG
JLP-SHELL TEMP CK
EHS-OOHA-S/U-TST-STW
EHS-RAM-DEPLOY
MULTIMETER REPAIR

Tasklist Procedures:
HRF RACK ACOUSTIC MOVE
MELFI-VEL STRAP-RMV
MSG-BATTERY-REMOVE
NOD2SD2-BBA-R&R
TRQ-FSS-JMPR-QD
EHS-CO2-SDTO MON

Timeline Procedures:

JLP RACK RECONFIG						
2.101 JLP RACK RECONFIGURATION - JEMRMS, ICS, SAIBO, RYUTAI, JRSR						
Type: Standard			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**JLP Deployed** JEM Bag 2, P/N 80AS56740-109, S/N 001, B/C JBAG0002N **NOTE**: This bag was removed from the JLP Endcone RACK KBAR Activity earlier today.	IHI K-BAR Assy, Left [QTY: 5]	683-62201-3	Crew Pref	Crew Pref	**REPORT** S/N and B/C to SSIPC.
2		IHI K-BAR Assy, Right [QTY: 5]	683-62201-4	Crew Pref	Crew Pref	**REPORT** S/N and B/C to SSIPC.
3	**JLP Deployed** JEM Bag 4, P/N 80AS56740-113, S/N 001, B/C JBAG0004N **NOTE**: This bag was removed from the JLP Endcone RACK KBAR Activity earlier today.	IHI/MHI Pivot Fitting Bottom, Left [QTY: 5]	683-20100-1	Crew Pref	Crew Pref	**REPORT** S/N and B/C to SSIPC.
4		IHI/MHI Pivot Fitting Bottom, Right [QTY: 5]	683-20100-2	Crew Pref	Crew Pref	**REPORT** S/N and B/C to SSIPC.
5	**NOD1D4_G2** Drawer 2	5/16" Hex Head, 3/8" Drive	FA10E	-	-	
6		3/8" Hex Head, 3/8" Drive	FA12E	-	-	
7		4" Ext, 1/4" Drive	TMXK4	-	-	

8	**NOD2 Deployed** Mesh Bag: VOK Tools	5/32" Hex Head, 3/8" Drive	FA5E			
9		Ratchet, 3/8" Drive	F830			
10		(40-200 in-lbs) Trq Wrench, 3/8" Drive	SEG33117289-302			
11		5/32" Hex Head, 1/4" Drive	TMA5E			
12		1/8" Hex Head, 1/4" Drive	TMA4E			
13		Ratchet, 1/4" Drive	TM830			
14		Gray Tape 1"	-	-	-	
15		DCS 760 Camera	SEZ33113001-302	ANY	ANY	

JLP-SHELL TEMP CK

16-1326 JLP SHELL TEMPERATURE MEASUREMENT

Type: Standard IMS Plan: No

#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	**NOD1O4_D1** 0.5 CTB 1202: B/C 006651J	Scopemeter Temperature Probe Kit	SEG39130249-301	1003	-	
2		Scopemeter Temperature Probe	SEG39130243-301	NA_118_155	-	
3	**MF28G** IFM Tools	Multimeter	87	1013	-	**-**
4	**NOD1D4_G2** Drawer 5	Tape Measure	2210-10	-	-	
5						
6	**NOD2 Deployed** Mesh Bag: VOK Tools	Sharpie	-	-	-	
7		DCS 760 Camera	SEZ33113001-302	ANY	ANY	

EHS-OOHA-S/U-TST-STW

2.6.420 ON-ORBIT HEARING ASSESSMENT WITH EARQ SOFTWARE - NOMINAL OPS

Type: Standard IMS Plan: No

#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	**CM1PO_4_438_КЭП**	ISS Medical Accessory Kit	SEG52100803-304	1039	00079980J	AKA. IMAK
2		Prophonics Earphones	SEG46117239-902	-	-	Crew Pref
3	**Crew Pref**	ANR Headset ASSEMBLY-BOSE	SEG16103501-801	-	-	Per IMS: Attached to SSC 10 at **A/L1OF1**, SSC 8 at **LAB1P6**, and SSC 9 at **NOD1S3**

EHS-RAM-DEPLOY

3.119 Radiation Area Monitor Dosimeters - Installation of Dosimeters on ISS

Type: Standard IMS Plan: No

#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	**Temp Stowed at LAB1O6**	Radiation Area Monitor [QTY: 22]	SEZ33111519-313	2172-2193		Color: White These were transferred in the CHeCS 1.0 CTB on FD3
Type: Restow			IMS Plan: No			
2	**Restow per Transfer Return Item 719**	Radiation Area Monitor [QTY: 18]	SEZ33111519-313	2119-2136	-	Color: Blue

MULTIMETER REPAIR						
16-1343 ISS MULTIMETER REPAIR						
Type: Standard			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
16	**FGB 426** 0.5 CTB: Battery Locker, S/N 1190, B/C 006639J	9V Battery	528-41350-6	-	-	
17	**NOD1O4_D1** 0.5 CTB, S/N 1202, B/C 006651J	Multimeter	87	-	00072531K	
18	**NOD1O4_D1** 1.0 CTB, S/N 1096, B/C 004090J	Soldering Kit	SJG33110598-301	1002	004516J	
19	**NOD1O4_D1** ISS Pin Kit ASSEMBLY, (1.0 CTB, S/N 1096, B/C 004090J)	22 GA Electical Wire	M22759/11-22-9	-	-	Inside FLAP 3.
20	**LAB1D3**	Power Tool Battery	SEG33111376-302	Crew Pref	-	Used charged battery.
21	**NOD1D4_G2** Drawer 3, IVA Toolbox	#1 PHILLIPS SCREWDRIVER	SSDEP61B	-	-	
22	**NOD1D4_G2** Drawer 4, IVA Toolbox	WIRE CUTTERS	184BCP	-	-	
23		WIRE STRIPPER	45181	-	-	
24		SMALL NEEDLE NOSE PLIERS	94BCP	-	-	
25		6" LONG MINI PLIERS STRAIGHT	MPS6	-	-	
26	**LAB1O5_A2**	MWA Containment System	SEG33110290-301	-	-	
27	**NOD2S4**	Maintenance Work Area Utility Kit	SJG33110310-301	-	-	This kit is stowed under the MWA.
28	**NOD2S6**	VACUUM CLEANER ASSEMBLY	SEG39125637-301	1003	1929276	
29	**NOD2S5_K2** 1.0 CTB: Large Gauge Pin Kit, S/N 1001, B/C 004073J	Electrical Tape	250-5S	-	-	
30	**Crew Pref**	Drink Bag	-	-	-	
31		Safety Goggles	CP-3-CNP-KK-98	-	-	
32		DCS 760 Camera	DCS 760 Camera	-	-	

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)	-	**-**	**-**	

NOD2SD2-BBA-R&R						
1.2.403 BASEPLATE BALLAST ASSEMBLY R&R						
Type: Standard			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**LAB1O5_G**	Baseplate Ballast Assembly	219011	127	00035238K	
Type: Restow			IMS Plan: No			
2	**LAB1O5_G**	Baseplate Ballast Assembly	219011	73	00002617M	

TRQ-FSS-JMPR-QD						
16-1060 QD TIGHTENING OF FSS JUMPERS						
Type: Standard			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**LAB1O6** 1.0 CTB: FSS, S/N 1136, B/C 004130J	FSS-64-2 Jumper	683-17111-22	000001	00006441J	CWC M ADAPTER
2		FSS-68-1 Jumper	683-17111-13	000001	00006442J	JUMPER ADAPTER-3/4M
3		FSS-68-2 Jumper	683-17111-14	000001	00006415J	
4		FSS-69-1 Jumper	683-17111-15	000001	00006418J	JUMPER ADAPTER-3/4F
5		FSS-69-2 Jumper	683-17111-16	000001	00006443J	JUMPER ADAPTER-3/4F
6		FSS-77-1	683-17111-17	000001	00012275J	
7		FSS-77-2	683-17111-18	000001	00012274J	

EHS-CO2-SDTO MON						
16-0876 CARBON DIOXIDE MAPPING AND PERSONAL MONITORING						
Type: Standard			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**LAB1S3**	CDM	SEG46117194-302	1013	-	
2	**LAB1D4_A2**	CDMK	WLSD210121-301	1008	00057887J	
3		Belt Pouch Assembly	WLSD210122-301	-	-	
4		CDMK Nomex Belt	WLSD210121-301	-	-	
5	**LAB1D4_C2**	CSA-CP Data Cable	KLSD210045-801	1002	-	Used to download data to MEC.

16-1347 (MSG 049) FD 6 SPDM GRAPPLE
Page 1 of 11 pages

1. SETUP

Verify SRMS is at the –Y Star Tracker Clear position.

Configure Cameras and overlays as required.

Monitor 1	Monitor 2	Monitor 3	V10 L	V10 R
09: P1 Lower Outboard (+120, +10)	22: Base Elbow (-100, -10)	37: MBS Mast (+50, +10)	Camera A (+90, +45)	Camera B (-20, +30)

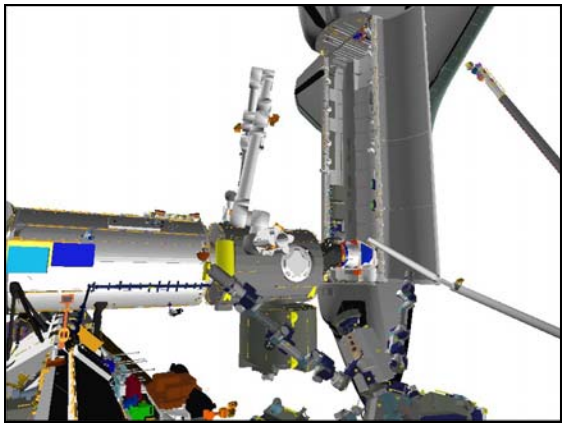


Figure 1.- SLP Clearance
(09: P1 Lower Outboard: +120, +10).

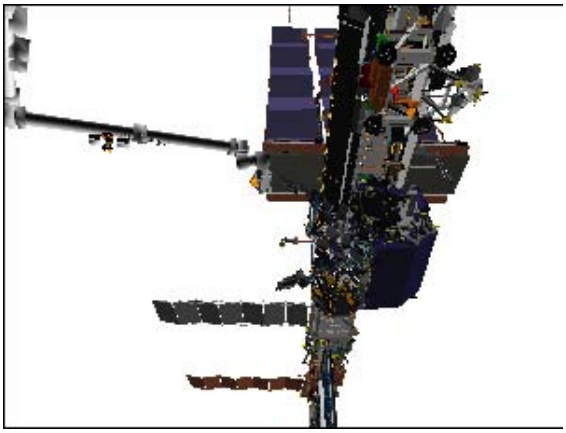


Figure 2.- SLP Clearance
(V10: Camera A: +90, +45).

PCS MSS: SSRMS: SSRMS

Change Loaded Parameters ▶ SPDM ▶ SPDM LEE SYH
Verify 'Loaded Parameters' (three) – SPDM LEE, SSRMS, SY Held

Change Unloaded Parameters ▶ Unloaded ▶ LEE Tip SYH
Verify 'Unloaded Parameters' (two) – LEE Tip, SY Held

Change Display ▶ MBS ▶ SLP SPDM PDGF (Verify MBS>SLP SPDM PDGF)

Change Command ▶ SSRMS ▶ Internal (Verify SSRMS>Internal)

Verify SSRMS at SLP Clearance position (within 5 cm/1 deg).

SR	SY	SP	EP	WP	WY	WR
-205.0	-5.1	-48.8	-96.0	-110.9	-152.3	+164.4
X	Y	Z	Pitch	Yaw	Roll	
-204	+119	-11	+60.9	+5.7	-26.2	
FOR	Unloaded – LEE Tip, SY Held					
Disp	MBS>SLP SPDM PDGF					

2. JOINT OCAS TO INTERMEDIATE POSITION

DCP BRAKES SSRMS → OFF (Verify OFF)

RHC √Vernier

PCS MSS: SSRMS: SSRMS

Enter Mode – Joint OCAS (Verify blue)

SSRMS Joint OCAS

Input 'Joint Angles' 'Destination' for Intermediate position.

SR	SY	SP	EP	WP	WY	WR
-200.1	+10.7	-48.8	-97.1	+4.6	-8.4	-31.3

cmd Load (Verify Sequence Status – Confirm or Cancel)

MON Verify joint angles and errors are correct on Joint Angle Position overlay.

	SR	SY	SP	EP	WP	WY	WR
(current)	-205.0	-5.1	-48.8	-96.0	-110.9	-152.3	+164.4
TGT	**-200.1**	**+10.7**	**-48.8**	**-97.1**	**+4.6**	**-8.4**	**-31.3**
ERR	-4.9	-15.8	0.0	+1.1	-115.5	-143.9	+195.7

****
* If joint angles or errors are incorrect
PCS * **cmd** Cancel (Verify Sequence Status – Waiting Destination)
*
* Input correct Dest joint angles per table above.
*
* **cmd** Load (Verify Sequence Status – Confirm or Cancel)
*
MON * Verify joint angles and errors are correct on Joint Angle Position
* overlay.
****

PCS **cmd** Confirm (Verify Sequence Status – Auto Seq sw - Hot)

DCP AUTO SEQ → PROC

PCS MSS: SSRMS: SSRMS

Verify Posn Hold – orange

Verify Joint Angle values.

SR	SY	SP	EP	WP	WY	WR
-200.1	+10.7	-48.8	-97.1	+4.6	-8.4	-31.3

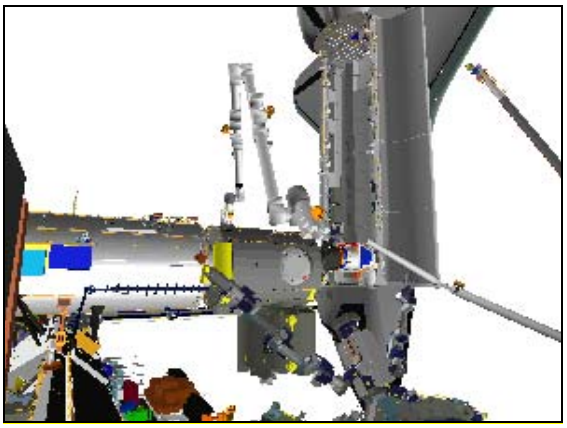


Figure 3.- Intermediate
(09: P1 Lower Outboard: +120, +10).

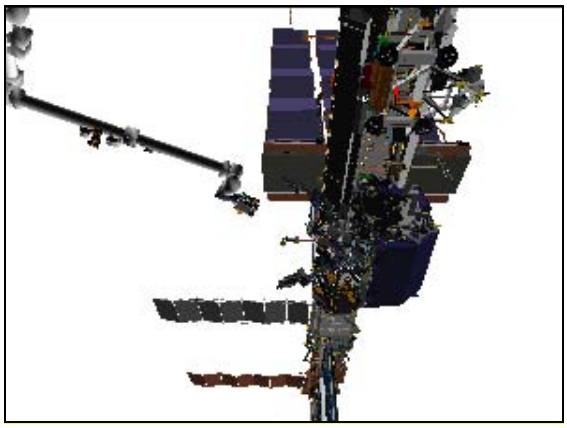


Figure 4.- Intermediate
(V10: Camera A: +90, +45).

3. SINGLE JOINT TO SPDM PRE-GRAPPLE

MSS: SSRMS: SSRMS

Enter Mode – Single (Verify blue)

WARNING

The active joint must be checked on the PCS before initiating motion. Failure to do so may result in movement of the wrong joint.

THC — Perform Single Joint maneuver to SPDM Pre-Grapple position (within 1 deg).

Intermediate 1: SP – SPDM Pre-Grapple

SR	SY	SP	EP	WP	WY	WR
-200.1	+10.7	-48.8	-97.1	+4.6	-8.4	-31.3
		-53.1				
-200.1	+10.7	-53.1	-97.1	+4.6	-8.4	-31.3

X	Y	Z	Pitch	Yaw	Roll
-150	0	0	0.0	0.0	0.0

FOR	Unloaded – LEE Tip, SY Held
Disp	MBS>SLP SPDM PDGF

PCS — MSS: SSRMS: SSRMS

Enter Mode – Standby (Verify blue)

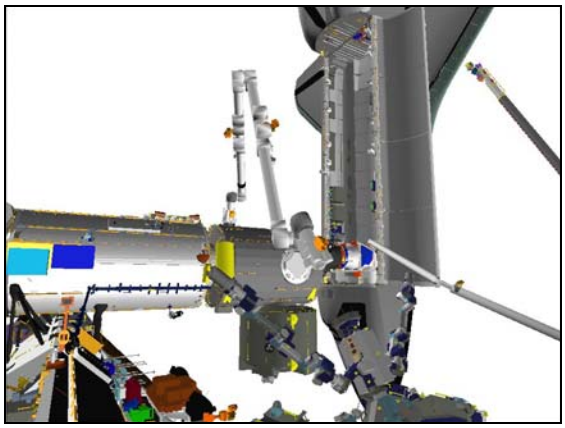


Figure 5.- SPDM Pre-Grapple
(09: P1 Lower Outboard: +120, +10).

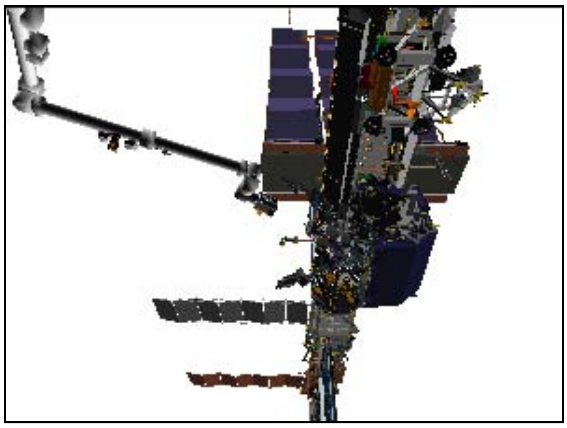


Figure 6.- SPDM Pre-Grapple
(V10: Camera A: +90, +45).

4. SPDM GRAPPLE SETUP
   Configure Cameras and overlays as required.

Monitor 1	Monitor 2	Monitor 3	V10 L	V10 R
09: P1 Lower Outboard (+120, +10)	25: Tip LEE	37: MBS Mast (+40, +15)	Camera A (+90, +45)	Camera B (-20, +30)

NOTE
The LEE Camera must be fully zoomed out to correspond to the target overlay.

PCS MSS: SSRMS: Rate: SSRMS Rate

Set ‘Scale’ ‘Vernier’ Rate Scale: as desired.

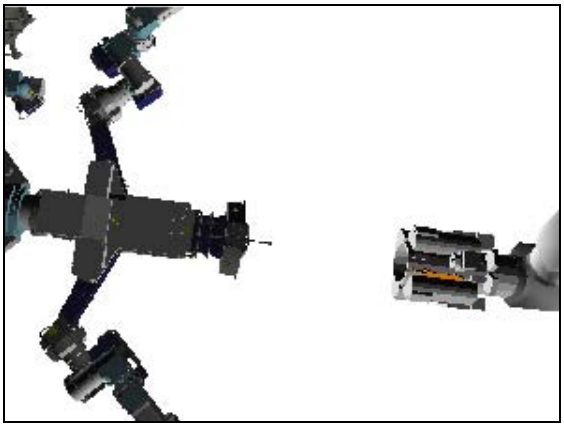


Figure 7.- SPDM Pre-Grapple
(37: MBS Mast: +40, +15).

5. SPDM GRAPPLE

MSS: SSRMS: SSRMS

Enter Mode – Manual (Verify blue)

MSS: SSRMS: SSRMS Manual: Joint Lock: Joint Lock

cmd Shoulder Yaw (Verify SY – Locked)

RHC/ THC — Maneuver to within grapple envelope.

PCS — MSS: SSRMS: Tip LEE: SSRMS Tip LEE

cmd Capture ▶ Automatic ▶ Slow, Limp (Verify Speed – Slow)

Verify '**Confirm or Terminate**' prompt.

CAUTION

Due to end-to-end system latency, the RHC Trigger is hot up to 3 seconds prior to receiving a Trigger Hot icon status on the PCS.

NOTE

Once the trigger is hot, only safing or trigger commands should be sent to the Robotics equipment. If a configuration change is required, including routing MSS Cameras, safe the system to exit LEE operations (SCR 23262, 14662).

cmd Confirm (Verify RHC Trigger Hot icon)

Verify LEE Mode – Auto Capture

RHC — TRIGGER → press (momentarily)

PCS — Verify 'Snare' Close, Capture (two) – blue (12 s max)
Verify Capture to Latch – Yes (SCR 19282)
Verify 'Carriage' Tension ~5500 N (90 s max)
Verify 'Carriage' Retract – blue
Verify 'Latch' Latch – blue (65 s max)

Verify with **MCC-H** - Payload and PDGF power inhibits have been confirmed and POA Umbilicals demated.

cmd 'Umbilical' Mate (Verify '**Confirm or Terminate**' prompt)

cmd Confirm (Verify RHC Trigger Hot icon)

Verify LEE Mode – Mate

RHC TRIGGER → press (momentarily)

PCS Verify 'Umbilical' Mate – blue (10 s max)
Verify 'Connector Continuity' Prime, Redundant (two) – Yes

Expected SPDM Grapple position.

SR	SY	SP	EP	WP	WY	WR
-199.0	+10.7	-64.9	-84.1	+3.7	-7.8	-30.4
X	Y	Z	Pitch	Yaw	Roll	
0	0	0	0.0	0.0	0.0	
FOR	Loaded – SPDM LEE, SSRMS, SY Held					
Disp	MBS>SLP SPDM PDGF					

NOTE
Expect the following message when safing is commanded:
'**R3Z - MSS OCS SSRMS Prime(Redun) ACU SRT Cat-1 Brk Stat Fail**' (SCR 17495)
This message should return to Norm.

DCP SAFING → SAFE (Verify ON)

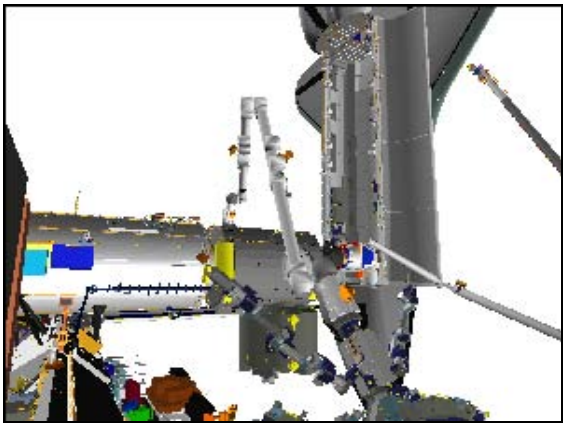


Figure 8.- SPDM Grapple
(09: P1 Lower Outboard: +120, +10).

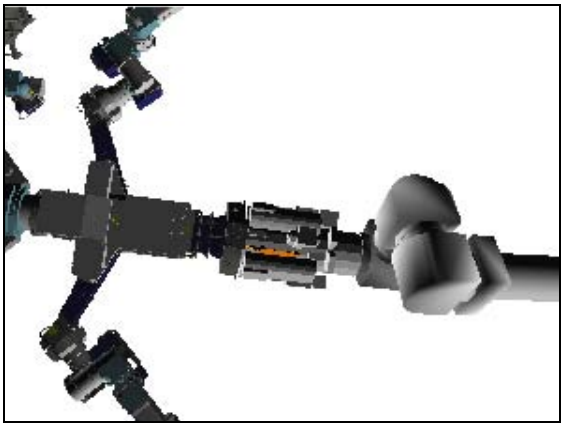


Figure 9.- SPDM Grapple
(37: MBS Mast: +40, +15).

6. SPDM OPERATIONS
Give **MCC-H** GO for SPDM ops.

7. SPDM PDGF RELEASE
On **MCC-H** GO for SPDM PDGF release:

7.1 SSRMS Release Setup

Configure cameras and overlays as required.

Monitor 1	Monitor 2	Monitor 3	V10 L	V10 R
09: P1 Lower Outboard (+120, +10)	25: Tip LEE	37: MBS Mast (+40, +15)	Camera A (+90, +45)	Camera B (-20, +30)

NOTE

The LEE Camera must be fully zoomed out to correspond to the target overlay.

Verify 'Loaded Parameters' (three) – SPDM LEE, SSRMS, SY Held

Verify 'Unloaded Parameters' (two) – LEE Tip, SY Held

Verify Display – MBS>SLP SPDM PDGF

Verify Command – SSRMS>Internal

PCS MSS: SSRMS: MSS Safing: [MSS Safing]

cmd 'SSRMS' Remove (Verify Not Safed)

DCP BRAKES SSRMS → OFF (Verify OFF)

√Vernier

MSS: SSRMS: Rate: [SSRMS Rate]

Set 'Scale' 'Vernier' Rate Scale: as desired

7.2 SSRMS Limp

MSS: SSRMS: Limp: [SSRMS Limp]

cmd All Limp (Verify Limp – blue)

MSS: SSRMS: [SSRMS]

Verify all joints – Limped

7.3 SPDM Push Off Release

MSS: SSRMS: Tip LEE: [SSRMS Tip LEE]

cmd Release ▶ Automatic ▶ Slow (Verify Speed – Slow)

CAUTION

Due to end-to-end system latency, the RHC Trigger is hot up to 3 seconds prior to receiving a Trigger Hot icon status on the PCS.

NOTE
Once the trigger is hot, only safing or trigger commands should be sent to the Robotics equipment. If a configuration change is required, including routing MSS Cameras, safe the system to exit LEE operations (SCR 23262, 14662).

Verify '**Confirm or Terminate**' prompt.

cmd Confirm (Verify RHC Trigger Hot icon)

Verify LEE Mode – Auto Release

RHC TRIGGER → press (momentarily)

PCS
Verify 'Umbilical' Demate – blue (10 s max)
Verify 'Latch' Unlatch – blue (65 s max)
Verify 'Carriage' Derigidize – blue (90 s max)
Verify 'Snare' Open – blue (12 s max)
Verify 'Carriage' Extend – blue (90 s max)

7.4 SSRMS Backoff

MSS: SSRMS: Limp: [SSRMS Limp]

cmd None Limp (Verify Standby – blue)

MSS: SSRMS: [SSRMS]

Enter Mode – Manual (Verify blue)

MSS: SSRMS: SSRMS Manual: Joint Lock: [Joint Lock]

cmd Shoulder Yaw (Verify SY – Locked)

THC/ RHC Maneuver SSRMS to SPDM Clear position (within 5 cm/1 deg).

	Locked					
SR	SY	SP	EP	WP	WY	WR
-200.1	+10.7	-53.1	-97.1	+4.6	-8.4	-31.3
X	Y	Z	Pitch	Yaw	Roll	
-150	0	0	0.0	0.0	0.0	
FOR	Unloaded – LEE Tip, SY Held					
Disp	MBS>SLP SPDM PDGF					

PCS MSS: SSRMS: [SSRMS]

Enter Mode – Standby (Verify blue)

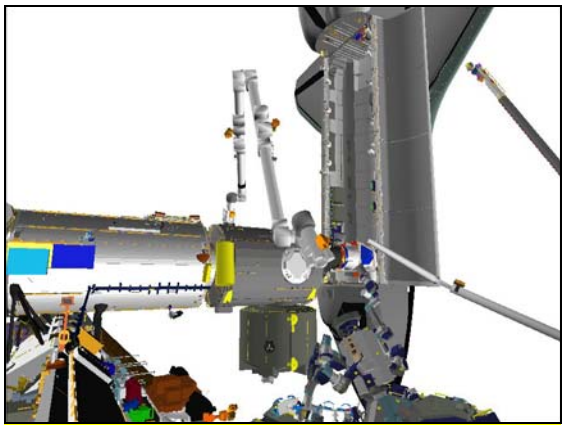


Figure 10.- SPDM Clear Position
(09: P1 Lower Outboard: +120, +10).

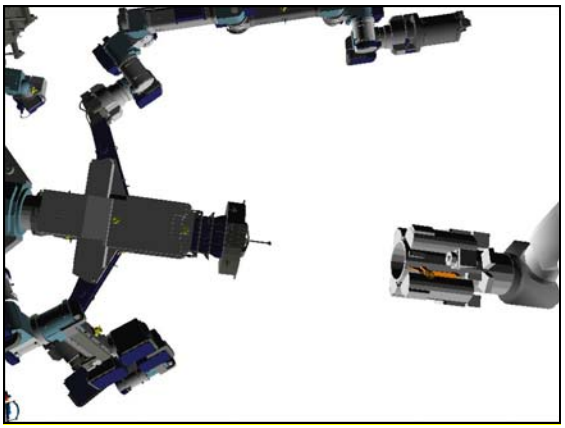


Figure 11.- SPDM Clear Position
(37: MBS Mast: +40, +15).

8. SINGLE JOINT TO INTERMEDIATE 2
Configure cameras and overlays as required.

Monitor 1	Monitor 2	Monitor 3	V10 L	V10 R
09: P1 Lower Outboard (+120, +10)	22: Base Elbow (-100, -10)	37: MBS Mast (+50, +5)	Camera A (+90, +45)	Camera B (-20, +30)

Change Unloaded Parameters ▶ Unloaded ▶ LEE Tip SRH
Verify 'Unloaded Parameters' (two) – LEE Tip, SR Held

Change Display ▶ ISS ▶ OBAS (Verify ISS>OBAS)

PCS MSS: SSRMS: SSRMS

Enter Mode – Single (Verify blue)

WARNING

The active joint must be checked on the PCS before initiating motion. Failure to do so may result in movement of the wrong joint.

THC Perform Single Joint maneuver to Intermediate 2 position (within 1 deg).

	SR	SY	SP	EP	WP	WY	WR
SPDM Clear	-200.1	+10.7	-53.1	-97.1	+4.6	-8.4	-31.3
1: SY –		-29.2					
Intermediate 2	-200.1	-29.2	-53.1	-97.1	+4.6	-8.4	-31.3
	X	Y	Z	Pitch	Yaw	Roll	
	-1442	-1062	-2311	+26.8	-17.5	-110.5	
	FOR	Unloaded – LEE Tip, SR Held					
	Disp	ISS>OBAS					

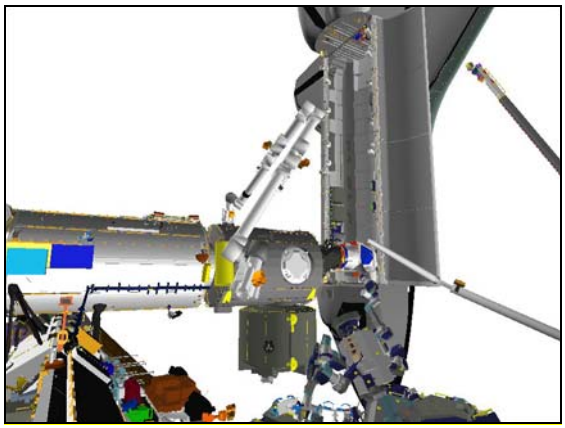


Figure 12.- Intermediate 2
(09: P1 Lower Outboard: +120, +10).

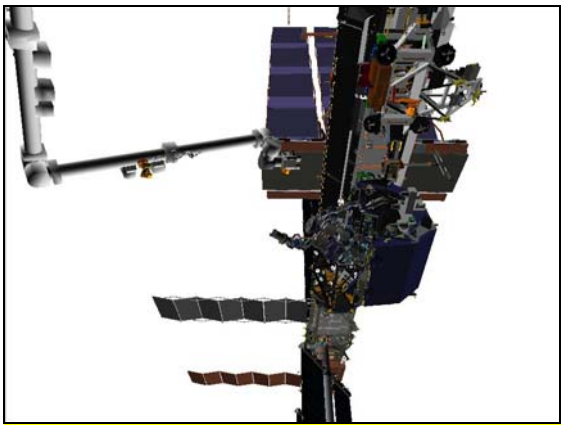


Figure 13.- Intermediate 2
(V10: Camera A: +90, +45).

9. JOINT OCAS TO APFR INSTALL SETUP

PCS MSS: SSRMS: SSRMS

Enter Mode – Joint OCAS (Verify blue)

SSRMS Joint OCAS

Input 'Joint Angles' 'Destination' for APFR Install Setup position.

SR	SY	SP	EP	WP	WY	WR
-205.0	-29.2	-51.5	-91.3	-102.8	-160.5	-170.7

cmd Load (Verify Sequence Status – Confirm or Cancel)

MON Verify joint angles and errors are correct on Joint Angle Position overlay.

	SR	SY	SP	EP	WP	WY	WR
(current)	-200.1	-29.2	-53.1	-97.1	+4.6	-8.4	-31.3
TGT	**-205.0**	**-29.2**	**-51.5**	**-91.3**	**-102.8**	**-160.5**	**-170.7**
ERR	+4.9	0.0	-1.6	-5.8	+107.4	+152.1	+139.4

****
* If joint angles/errors are incorrect
PCS * **cmd** Cancel (Verify Sequence Status – Waiting Destination)
*
* Input correct Dest joint angles per table above.
*
* **cmd** Load (Verify Sequence Status – Confirm or Cancel)
*
MON * Verify joint angles and errors are correct on Joint Angle Position
* overlay.
****

PCS **cmd** Confirm (Verify Sequence Status – Auto Seq sw - Hot)

DCP AUTO SEQ → PROC

PCS MSS: SSRMS: SSRMS

Verify Posn Hold – orange

Verify Joint Angle values.

SR	SY	SP	EP	WP	WY	WR
-205.0	-29.2	-51.5	-91.3	-102.8	-160.5	-170.7

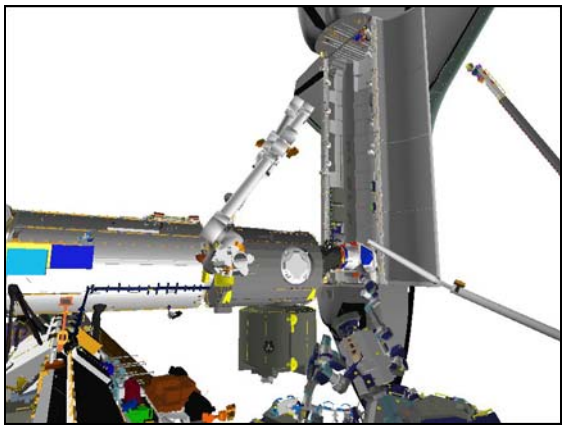


Figure 14.- APFR Install Setup
(09: P1 Lower Outboard: +120, +10).

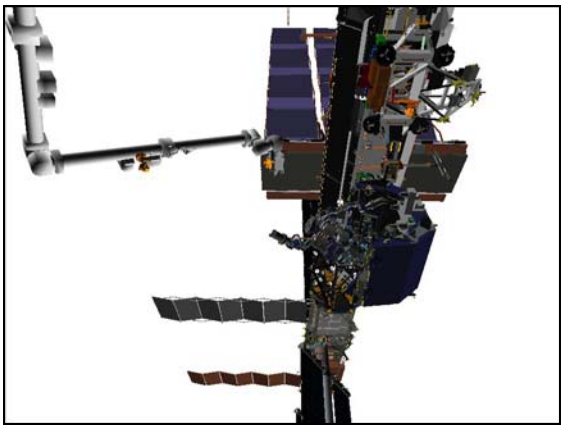


Figure 15.- APFR Install Setup
(V10: Camera A: +90, +45).

DCP SAFING → SAFE (Verify ON)