STS-133/ULF5

FD 07 Execute Package

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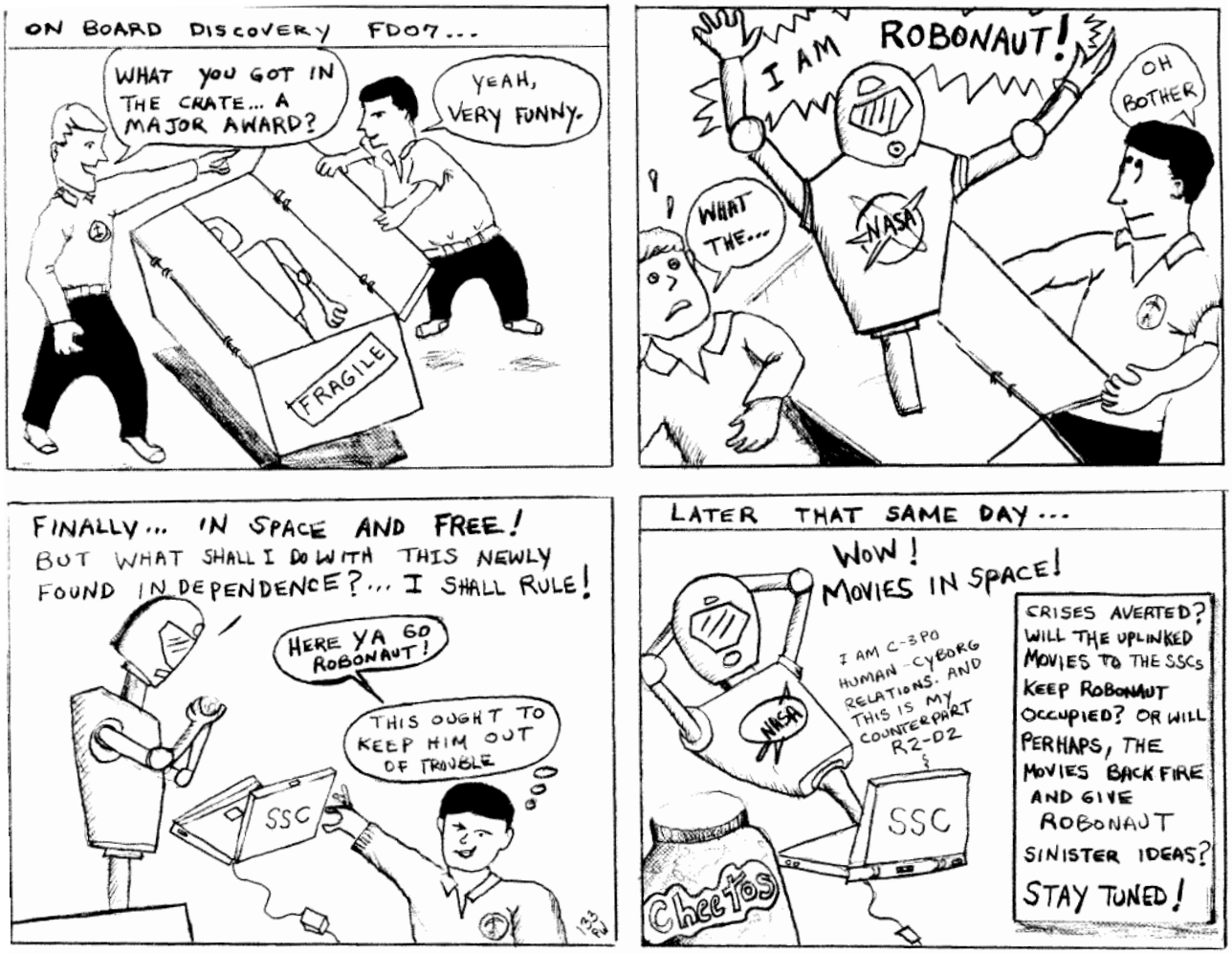
046	---	9.5.106 ZSR Transfer from LAB1P1 to PMM1P1 - ***Electronic only***

Approved by FAO:
Greg Whitney

Last Updated: Mar 2 2011 10:04 AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v3.0*



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MSG NO.	TITLE
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1. **STS-133/ULF5 FD06 - MMT Summary -** The MMT met briefly today to review the orbiter systems and mission progress. Great job with EV1 and PMM install. Discovery continues to perform flawlessly and the teams are working no issues. The MMT officially declared the TPS "Acceptable for Entry". As usual, great work from the DAT and imagery folks clearing the vehicle from any Ascent damage concerns. Also, the teams relooked at PA1 and its performance and all agreed that it's working as expected and have no concerns with its operations. With that, String 1 C/O will be nominal. Good luck with EVA#2.

2. **Comm Loop Overview**

FD7 GENERAL COMMUNICATION LOOP OVERVIEW

S/G 1 & A/G 1	S/G 2	A/G 2
• EVA 2 • SSRMS Big Picture • Exercise Constraints	• PMM Outfitting • SSRMS Details • EVA Prep/Post • Other USOS Comm • DPC • Russian Ops	• Transfer • All other STS Comm • SRMS Ops

3. **WHC -** Current waste water generation is continuing to remain on target with predicts.

4. **Eric -** Today we have you installing Node 2 Zenith HTV 1553 Vestibule Jumpers for us. The vestibule outfitting procedure you will execute is very similar to the PMM one you trained on. Figures will show where the HTV and Node 2 Connections will be made and there will be coordination for you and ground to make sure safing is in place for the jumper installs very similar to the 1553 jumper installs inside Node 1. Let us know if you have any questions

5. **Steve and Eric -** Today you will both be performing the PMM1A3 front fence removal activity. Steve will start it, but we don't believe you will have enough time to finish it. We wanted to remind you to tagup to handover where Steve left off and where Eric will pick up.

6. **ERCA 19 Troubleshooting -** If you experience the same signature during EVA 2 we would like you to reference MSG 041 for troubleshooting steps.

7. Replace pages 2-22 through 2-25 and 3-68 through 3-75.

NO UNISOLATED EXERCISE
While Crew is on ESP-2 & ELC4

REPLANNED

GMT 03/02/11 (061) — 10 11 12 13 14 15 16 17 18 19 20 21
MET Day 005 — 12 13 14 15 16 17 18 19 20 21 22 23 006/00

STS-133 2

FD07

CDR **LINDSEY**	SLEEP; POST SLEEP; PMC A/G; POST SLEEP; IMU; ILL-0; MCIU*; OBSS CLR; INHIB; PADD; -Y CLS; PMM1A3 FRNT FNCE REM; P/TV 07 EVA S/U; N2-I; P/TV07 EVA; OBSS*; P/TV07 EVA; MEAL; P/TV07 EVA; N2-T; P/TV07 EVA; OBSS*; EXERCISE
PLT **BOE**	SLEEP; LOG; POST SLEEP; ZSR STOW; 1553 JMPR INSTL; TREDMILL; FRONT FENCE REMOVAL; FENCE; RMVCL; PIVOTTING; FITTING; LAB1P1 ZSR RELOCATE; ROBONAUT; RLCT; PWR FILL #7; PWR FILL #8; MEAL; CWC-I; FILL #6; CWC-I & PWR XFER; EXERCISE; PMM1F2 FENCE RMVL; MO3 STOW; SLEEPER; RLCT
MS1 **DREW**	SLEEP; POST SLEEP; HYG BRK/ PREBREATHE (14.7 RPRS, 10.2 DPRS); EVA PREP; EMU; PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; ESETUPS/ EGRESS; VENT OPS/QD BAG C/U; ELC4 EXPCA MLI RMV; JSB PICKUP; P3 CETA LIGHT INSTAL; P1 RBVM; MLI REPAIR; P1 GRAPPLE BEAM T/S; NODE 3 MLI REMOVAL; POA CLA; COVER; GAHEAD; CLNUP & INGRS; P-RPS; RPRS
MS2 **BOWEN**	SLEEP; POST SLEEP; HYG BRK/ PREBREATHE; EVA PREP; EMU; PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; ESETUPS/ EGRESS; SSRMS SETUP; LWAPA RETRIEVE; LWAPA INSTALL; SPDM CLPA 1 INSTALL; SPDM EP1 MLI REMOVE; SSRMS CLEANUP; SSRMS CLPMAS; P1 GRAPPLE BEAM T/S; SDPM CLPMA COVER; GAHEAD; CLNUP & INGRS; P-RPS; RPRS
MS3 **BARRATT**	SLEEP; POST SLEEP; HYG BRK/ PREBREATHE; EVA PREP; EMU; PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; SSRMS EVA 2 SUPT; CSA-O2; RETURN; P-RPS; RPRS
MS4 **STOTT**	SLEEP; POST SLEEP; MDK#; AEMCK; GLCRSET; GLCCNFG; TOOL CHECK/ IV SETUP; EXERCISE; EVA 2 IVA SUPPORT

EVA 2 - 6:30

STS DAY/NIGHT	
STS ORBIT	88 89 90 91 92 93 94 95 96
STS TDRS W E Z	
ISS TDRS AVAIL	
ORB ATT	BIAS -XLV -ZVV
NOTES	*FILTER CK; #STATUS CHECK; *MNVR TO EVA2 VIEWING; *MNVR TO UND

NO UNISOLATED EXERCISE
While Crew is on ESP-2 & ELC4

REPLANNED

GMT 03/02/11 (061) — 10 11 12 13 14 15 16 17 18 19 20 21
MET Day 005 — 12 13 14 15 16 17 18 19 20 21 22 23 006/00

ISS TDRS AVAIL

| | | |

REPLANNED

GMT 03/02/11 (061) 22 23 03/03 01 02 03 04 05 06 07 08 09

MET Day 006 006/00 01 02 03 04 05 06 07 08 09 10 11 12

FD07

STS-133	CDR **LINDSEY**	EXERCISE; PMC OCA; -Y OPEN; ILL-1; PRE SLEEP; SLEEP
STS-133	PLT **BOE**	PRE SLEEP; 02 RECONFIG TO XFER; O2 INIT; PRE SLEEP; SLEEP; **ISS EXERNAL SURVEYS**
STS-133	MS1 **DREW**	RPRS; POST EVA W/H20; PRE SLEEP; EVA TAG; PRE SLEEP; SLEEP
STS-133	MS2 **BOWEN**	RPRS; POST EVA W/H20; PRE SLEEP; EVA TAG; PRE SLEEP; SLEEP
STS-133	MS3 **BARRATT**	RPRS; POST EVA W/H20; PRE SLEEP; SLEEP
STS-133	MS4 **STOTT**	MDK@; PRE SLEEP; SLEEP

STS	DAY/NIGHT	
STS	ORBIT	96 97 98 99 100 101 102 103
STS	TDRS W E Z	
ISS	TDRS AVAIL	
	ORB ATT	BIAS -XLV -ZVV
	NOTES	@STATUS CHECK

REPLANNED

GMT 03/02/11 (061) 22 23 03/03 01 02 03 04 05 06 07 08 09

MET Day 006 006/00 01 02 03 04 05 06 07 08 09 10 11 12

ISS TDRS AVAIL

ISS	**FD07** ISS CDR **S. KELLY**	PW; PRE SLEEP-ISS; 02 RECONFIG TO XFER; 02 INIT; PRE SLEEP-ISS; SLEEP
ISS	FE-1 **KALERI**	TVIS2; ♣; PW; DPC; PRE SLEEP-ISS; ⊕; SLEEP
ISS	FE-2 **SKRIPOCHKA**	♦; ®; DPC; PRE SLEEP-ISS; SLEEP
ISS	FE-4 **KONDRATYEV**	ARED-FE-2; DPC; PRE SLEEP-ISS; SLEEP
ISS	FE-5 **NESPOLI**	RPRS; POST EVA W/H2O; PW; PRE SLEEP-ISS; SLEEP
ISS	FE-6 **COLEMAN**	CEVIS; IFM-CDRA STOW-GTHR; P/TV-D; IMAGE; HAMPU; PRE SLEEP-ISS; SLEEP

DAY/NIGHT

ORBIT: 96 97 98 99 100 101 102 103

ALL VHF

NOTES

♣КПТ-2-PIREN-CHRG-INI
♦СОГС-ЭЛКТ-АФ-БЖ-MON
®МБИ-16-FE-2
⊕МБИ-12-EXP-FE-1-INIT

5

STS-133 FD (07)

REPLANNED

GMT Date 03/02 (061) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

10:00 11:00 12:00 13:00 14:00 15:00 16:00

88 89 90

BIAS -XLV -ZVV

CDR LINDSEY

SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE via A/G2

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
ILLUMINATOR OPS (CUE CARD, TV)
ILLUMINATORS OFF - A,D

L17 Check MCIU filter screen
OBSS MNVR TO PM VENT SENSOR CLEAR
(PDRS, OBSS NOMINAL)
EVA 2 INHIBIT PAD
(EVA,TIMELINES)

O6 S TRK PWR -Y - OFF
9.5.103 RESUPPLY STOWAGE PLATFORM DISMANTLE
Steps 2.5-2.11 Remove M-01 and M-02 fences/straps from PMM1A3 rack front
Inform PLT where you stop.
Ref MSG 042, Step 5

PLT BOE

SLEEP

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ZSR TRANSFER AND DEPLOY AT PMM 1P2 Remove PMM1S3 ZSR, PIP Pins (four). Temp Stow in PMM Nadir Endcone.
1.127 HTV VESTIBULE CONFIGURE FOR INGRESS ON NODE 2 ZENITH
Ref MSG 045
Steps 15-end

M-03 BAG (TREADMILL) RELOCATE
Ref MSG 042, Step 4

9.5.103 RESUPPLY STOWAGE PLATFORM DISMANTLE
Steps 2.5-2.11
Remove M-01 and M-02 fences/straps from PMM1F1 rack front
Ref MSG 042, Step 6

MS1 DREW

SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H performs Steps 1-4, 16-20 & 23
Start NET 8:40 hrs from the end of:
1.206 10.2 PSIA CAMPOUT MASK PREBREATHE

EVA SYSTEMS: 1.216 EVA PREP
MCC performs step 1

EVA SYSTEMS: 1.220 EMU PURGE
MCC performs steps 6,12

NOTES

FD07 EZ ACTIVITIES:
√MDDK Duct Screen
OCAC Filter Inspection
TEPC (STATUS CHECK)
(ORB OPS, CREW SYSTEMS)
Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA ROUTER), STS5 (RPOP2) and STS6 (WLES)

STS-133 FD (07)

REPLANNED

GMT Date 03/02 (061) | W | T D R S E Z | D/N | O R B | MET Day 005 | STS ATI

MS2 **BOWEN** | MS3 **BARRATT** | MS4 **STOTT** | NOTES

10:00 / 11:00 / 12:00 / 13:00 / 14:00 / 15:00 / 16:00

88 / 89 / 90

BIAS-XLV-ZVV

MS2 BOWEN

SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H performs Steps 1-4, 16-20 & 23
Start NET 8:40 hrs from the end of:
1.206 10.2 PSIA CAMPOUT MASK PREBREATHE

EVA SYSTEMS: 1.216 EVA PREP
MCC performs step 1

EVA SYSTEMS: 1.220 EMU PURGE
MCC performs steps 6,12

MS3 BARRATT

SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H performs Steps 1-4, 16-20 & 23
Start NET 8:40 hrs from the end of:
1.206 10.2 PSIA CAMPOUT MASK PREBREATHE

EVA SYSTEMS: 1.216 EVA PREP
MCC performs step 1

EVA SYSTEMS: 1.220 EMU PURGE
MCC performs steps 6,12

MS4 STOTT

SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

A (ASSY OPS, PAYLOADS)
FWD Unit in MF28E/G

GLACIER STATUS CK (Cue Card) - Both Units
AEM CHECK (CUE CARD)

GLACIER SET POINT CONTROL MODE
(ASSY OPS, PAYLOADS) FWD Unit in MF28E/G

GLACIER CONFIG FOR DESCENT A
TOOL CHECK AND IV SETUP
Ref 133 EVA2 TOOL CONFIG (EVA, TIMELINES)

STS-133 FD (07)

REPLANNED

GMT Date 03/02 (061) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

14:00 15:00 16:00 17:00

91 92 93

16:00 17:00 18:00 19:00 20:00

BIAS-XLV-ZVV

CDR **LINDSEY**	PLT **BOE**	MS1 **DREW**	NOTES
9.5.103 RESUPPLY STOWAGE PLATFORM DISMANTLE Steps 2.5-2.11 Remove M-01 and M-02 fences/straps from PMM1A3 rack front Inform PLT where you stop. Ref MSG 042, Step 5	9.5.103 RESUPPLY STOWAGE PLATFORM DISMANTLE Steps 2.5-2.11 Remove M-01 and M-02 fences/straps from PMM1F1 rack front Ref MSG 042, Step 6	EVA SYSTEMS: 1.220 EMU PURGE MCC performs steps 6,12 EVA SYSTEMS: 1.225 EMU PREBREATHE Do not perform steps 3,7,10 & 40 MCC performs step 48	PMM ACTIVATION COMPLETED BY THE GROUND
P/TV07 EVA (PHOTO/TV, SCENES) Setup	9.5.103 RESUPPLY STOWAGE PLATFORM DISMANTLE Tag with ISS CDR and complete needed steps: Step 2.5-2.11 Remove M-01 and M-02 fences/straps from PMM1A3 rack front. Ref MSG 042, Step 5	EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD	
N2 REPRESS INIT [B] P/TV07 EVA (PHOTO/TV, SCENES) Ops	9.5.102 PMM RACK HARDWARE INSTALLATION Step 1, Install Pivot Fittings at PMM1PF1 Ref MSG 042, Step 9 9.5.106 ZSR TRANSFER FROM LAB1P1 TO PMM1P1 Skip steps 1.2 and 5.2 Relocate LAB1P1 to PMM1P1 Ref MSG 042, Item 10	EVA SYSTEMS: CREWLOCK POST DEPRESS (CC) EGRESS/SETUP	
[B] N2 REPRESS USING P/L N2 VLVS (ORB OPS, ECLS)Steps 1,3-7; MCC will TMBU S/W FDA		VENT OPS & QD BAG CLEANUP	NO UN-ISOLATED EXERCISE WHILE CREW IS ESP-2 & ELC4
	M-03 (ROBONAUT ACCESSORIES) RELOCATE Ref MSG 042, Step 7d PWR FILL (ORB OPS, ECLS) Init Fill #7 Ref. MSG 013 Fill dur ~30 min	ELC4 EXPCA MLI RMV	PMM ACTIVATION COMPLETED BY GROUND
OBSS MNVR TO EVA 2 VIEWING (PDRS, OBSS NOMINAL) P/TV07 EVA (PHOTO/TV, SCENES) Ops	PWR FILL (ORB OPS, ECLS) Init Fill #8 Ref. MSG 013 Fill dur ~30 min	JSB PICKUP P3 CETA LIGHT INSTALL	
MEAL	MEAL		

STS-133 FD (07)

REPLANNED

GMT Date 03/02 (061) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI | BIAS-XLV-ZVV

14:00 15:00 16:00 17:00

91 92 93

16:00 17:00 18:00 19:00 20:00

MS2 BOWEN	MS3 BARRATT	MS4 STOTT	NOTES
EVA SYSTEMS: 1.220 EMU PURGE MCC performs steps 6,12	EVA SYSTEMS: 1.220 EMU PURGE MCC performs steps 6,12	TOOL CHECK AND IV SETUP Ref 133 EVA2 TOOL CONFIG (EVA, TIMELINES)	
EVA SYSTEMS: 1.225 EMU PREBREATHE Do not perform steps 3,7,10 & 40 MCC performs step 48	EVA SYSTEMS: 1.225 EMU PREBREATHE Do not perform steps 3,7,10 & 40 MCC performs step 48		
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD	EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD	EXERCISE	PMM ACTIVATION COMPLETED BY THE GROUND
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)	EVA SYSTEMS: CREWLOCK POST DEPRESS (CC) ROBO: 1.410 SSRMS EVA 2 SUPPORT		
EGRESS/SETUP			
SSRMS SETUP		EVA 2 IVA SUPPORT (EVA, TIMELINES)	NO UN-ISOLATED EXERCISE WHILE CREW IS ESP-2 & ELC4
LWAPA RETRIEVE			PMM ACTIVATION COMPLETED BY GROUND
LWAPA INSTALL			
SPDM CLPA 1 INSTALL			

STS-133 FD (07)

REPLANNED

GMT Date 03/02 (061) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

CDR **LINDSEY** | PLT **BOE** | MS1 **DREW** | NOTES

93 | 94 | 95 | 96

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

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

BIAS-XLV-ZVV

CDR LINDSEY

MEAL

P/TV07 EVA
(PHOTO/TV, SCENES)
Ops

N2 REPRESS TERM (On MCC GO) C
P/TV07 EVA
(PHOTO/TV, SCENES)
Ops

OBSS MNVR TO UNDOCK
(PDRS, OBSS NOMINAL)

EXERCISE

PLT BOE

MEAL

CWC-I FILL (ORB OPS, ECLS)
Fill CWC-I #6,
Perform Parts D-F
Ref. MSG 013

CWC-I & PWR TRANSFER
Transfer 1 CWC-I to ISS
Transfer 2 PWRs to ISS

EXERCISE

C N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS) Steps 8-13
MCC will TMBU S/W FDA

9.5.103 RESUPPLY STOWAGE PLATFORM DISMANTLE
Steps 2.1-2.3
Remove M-03 fence/straps from PMM1F2 rack front
Ref. MSG 042, Step 11a

PMM1F2 FRONT FENCE REMOVAL AND STOW IN ENDCONE
Ref MSG 042, Step 11b

SLEEPR (ROBONAUT) RELOCATE
Ref MSG 042, Step 12

MS1 DREW

P3 CETA LIGHT INSTALL

P1 RBVM MLI REPAIR

P1 GRAPPLE BEAM TROUBLESHOOT

NODE 3 MLI REMOVAL

POA CLA COVER

GET AHEAD

EVA 2 CLEANUP AND INGRESS

EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: CREWLOCK REPRESS (CC)

STS-133 FD (07)

REPLANNED

GMT Date 03/02 (061) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

MS2 **BOWEN** | MS3 **BARRATT** | MS4 **STOTT** | NOTES

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

93 | 94 | 95 | 96

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

BIAS -XLV -ZVV

MS2 BOWEN

SPDM CLPA 1 INSTALL

SPDM EP1 MLI REMOVE

SSRMS CLEANUP

SSRMS CLPA

P1 GRAPPLE BEAM TROUBLESHOOT

SPDM CLPA COVER

GET AHEAD

EVA 2 CLEANUP AND INGRESS

EVA SYSTEMS: PRE REPRESS (CC)

EVA SYSTEMS: CREWLOCK REPRESS (CC)

MS3 BARRATT

ROBO: 1.410 SSRMS EVA 2 SUPPORT

CSA-O2 RETRIEVE
Transfer CSA-O2s (2) from ISS A/L to 24S

EVA SYSTEMS: PRE REPRESS (CC)

EVA SYSTEMS: CREWLOCK REPRESS (CC)

MS4 STOTT

EVA 2 IVA SUPPORT
(EVA, TIMELINES)

11

STS-133 FD (07)

REPLANNED

GMT Date 03/02 (061) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

22:00 — 23:00 — 00:00 — 01:00

96 — 97 — 98

00:00 — 01:00 — 02:00 — 03:00 — 04:00

BIAS -XLV -ZVV

CDR **LINDSEY**	PLT **BOE**	MS1 **DREW**	NOTES
EXERCISE	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	EVA SYSTEMS: CREWLOCK REPRESS (CC) EVA SYSTEMS: 1.240 POST EVA With H2O, No METOX MCC-H performs steps 43 & 67 EVA SYSTEMS: 1.225 EMU PREBREATHE Perform Step 40 EVA SYSTEMS:1.206 10.2 PSIA CAMPOUT MASK PB Perform Step 2 Use Metox s/n's 21 & 22 Ref: STS-133 CTCC	
PRIVATE MEDICAL CONFERENCE D			
-Y STAR TRACKER ACTIVATION E ILLUMINATOR OPS (CUE CARD, TV) ILLUMINATORS ON - A,D PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	JOINT OPS: 3.123 O2 TRANSFER SETUP (POST PREBREATHE USING SHUTTLE O2) Steps 2-5.7 MCC-H will perform steps 2.5 and 5.6	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	JOINT OPS: 3.128 O2 TRANSFER TO HI P AND LO P O2 TANKS Step 2 PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST EVA TAGUP PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	

D L9 PAYLOAD STATION AUDIO A/G (two) - OFF
NETMEETING VIDEO CONFERENCING
(ORB OPS, OCA) Private Medical Conference
Omit steps 1.2 and 3, use A/G2 for audio,
Inform MCC which PGSC will be used
KU TDRW (00:48-01:14)

E O6 S TRK PWR -Y - ON
CRT GNC I/O RESET
GNC 22 S TRK/COAS CNTL
-Y STAR TRK - ITEM 3 EXEC

CREW WAKE @ 6/12:00

STS-133 FD (07)

REPLANNED

GMT Date 03/02 (061) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

22:00 | 23:00 | 00:00 | 01:00

96 | 97 | 98

BIAS-XLV-ZVV

00:00 | 01:00 | 02:00 | 03:00 | 04:00

MS2 BOWEN	MS3 BARRATT	MS4 STOTT	NOTES
EVA SYSTEMS: CREWLOCK REPRESS (CC)	EVA SYSTEMS: CREWLOCK REPRESS (CC)		
EVA SYSTEMS: 1.240 POST EVA With H2O, No METOX MCC-H performs steps 43 & 67	EVA SYSTEMS: 1.240 POST EVA With H2O, No METOX MCC-H performs steps 43 & 67		
EVA SYSTEMS: 1.225 EMU PREBREATHE Perform Step 40	EVA SYSTEMS: 1.225 EMU PREBREATHE Perform Step 40		
EVA SYSTEMS:1.206 10.2 PSIA CAMPOUT MASK PB Perform Step 2 Use Metox s/n's 21 & 22 Ref: STS-133 CTCC	EVA SYSTEMS:1.206 10.2 PSIA CAMPOUT MASK PB Perform Step 2 Use Metox s/n's 21 & 22 Ref: STS-133 CTCC		
		MDDK STATUS CHECKS [F] PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
POST EVA TAGUP			
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
	[F] Perform status checks of both Glacier units. In step 1.4 for FWD Glacier unit in MF28E/G, temp may not have reached -95C, but should be cooling towards it.		
	CREW WAKE @ 6/12:00		

Good Morning Discovery. It was a big moment down on Earth to watch the construction project of ISS finish successfully, well done.

YOUR CURRENT ORBIT IS: 194 X 185 NM

NOTAMS - (NO CHANGE)

EDW -	EDW 22L/04R IN USE. EDT 22R/04L EMERGENCY DAY USE ONLY.
EDW -	LAKEBED RWYS RED.
NOR -	LAKEBED RWYS GREEN.
ZZA -	NOT USABLE. UNDER CONSTRUCTION.
MRN -	MRN20 ALS OTS.
BEN -	NOT USABLE. NOT SUPPORTED.
NTU -	RWY 05R/23L CLSD.
WAL -	TACAN SBY49 DME ONLY.
FMH -	TACAN PVD103 DME ONLY.
YYT -	TACAN UYT23 DME ONLY.
YQX -	TACAN YQX74 DME ONLY.
LAJ -	RWY 15/33 CLSD 2200-0900 GMT DAILY.
FFA -	NOT USABLE. IN CARETAKER STATUS.
ESN -	DME BAG78 OTS.
IKF -	NOT USABLE. NO AGREEMENT

<u>NEXT 2 PLS OPPORTUNITIES:</u>

NOR23	ORB 95 – 5/22:55	SCT250	7	220/10P15
NOR23	ORB111 – 6/23:22	SCT250	7	200/12P17

OMS TANK FAIL CAPABILITY:

L or R OMS FAILS: NO

LEAKING OMS PRPLT BURN:

L or R OMS LEAK: ALWAYS BURN RETROGRADE

OMS QUANTITIES(%)

L OMS OX = 35.15 R OMS OX = 34.46
FU = 34.77 FU = 34.48

FOR CURRENT QTYS, SUBTRACT INCN'T COUNTER

DELTA V AVAILABLE:

OMS	359 FPS
ARCS (TOTAL ABOVE QTY1)	42 FPS
TOTAL IN THE AFT	401 FPS
ARCS (TOTAL ABOVE QTY2)	75 FPS
FRCS (ABOVE QTY 1)	30 FPS
AFT QTY 1	81 %
AFT QTY 2	44 %

ERCA 19 Workaround

The ground has not been able to determine the cause of the issues related to ERCA 19 during EVA 1. The current belief is that an event occurred in the WVS GUI which prevented commands from being sent to the ERCA. If you experience the same signature during EVA 2 we would like you to:

1. Close the WVS GUI, by selecting FILE -> Exit
2. Restart the WVS GUI via Photo/TV Checklist FS1-57, Step 4 b, excluding Pwr -ON of PGSC
3. If no joy - power cycle the (A7) WIRELESS VID PWR to OFF , wait 10 secs, ON

PMM Reconfig Activities for FD7

Cady, Steve & Eric,

Welcome to PMM Reconfig!! This message gives you the list of today's activities. This message provides all the information that you need to execute stowage moves. In some cases, they are simple one line steps...in other cases we have provided a table for multiple cargo moves. The message also references the OSO procedures that you will execute in conjunction with the stowage moves for a complete view of the PMM reconfig plan for today. Don't forget, there are also stow notes that accompany the OSO procedures.

We discussed labeling the PMM endcone items with purple (stays in PMM) and brown (disposed in HTV2) labels. Per IMS, the purple labels can be found at JPM1O2_C1 in 1.0 CTB S/N 1329. Per IMS, the brown labels can be found at NOD1O4_A1 in 0.5 CTB S/N 1039. You can stage these in the PMM for your convenience as you continue to work on PMM Reconfig.

For each RSP Dismantle you will create ziplocks with small parts and fence pieces. All of these are destined for disposal in HTV2 except the M-03 fence. Some of these dismantled items can be put directly into the HTV2, others will need to wait. The restow notes will direct you to the final locations. However, we don't expect the Shuttle guys to be familiar with the HTV2 location coding. Please ask Cady for help when restowing in HTV2. Cady – you can reference message 26-0831A: HTV2 Trash Maps for the newest color coded maps and message 26-0908: HTV2 Trash Loading for RSP Piece Parts (Part 8) for the list detailing which pieces can be trashed directly in HTV2 at this time. Also as a reminder you can temp stow the 2 front panels that need to be removed per crew preference in HTV.

Please report as major activities are complete so we can gauge how good our time estimates were. This will help with planning future days. And if you run into any issues, please let us know…we're here to help.

Your ISO and OSO teams

Today's activities:

1) **FLEIO and Hydrogen dome foam relocate**
   - **a.** Unbuckle straps from PMM1F1.
   - **b.** Perform moves per Table A.

Table A: PMM1F1 RSP front cargo

Current Location	Item	Final Location	Notes
PMM1F1 front	FLEIO (in foam cushion)	PMM endcone	Add brown label with "HTV2 Trash item #1204.1". FLEIO will be removed from the foam and restowed later in the PMM.
	Hydrogen Dome foam (4 pieces)	ULF5 middeck	This foam will be used for returning the Hydrogen Dome in the ULF5 mddk. Reference Return Item #726.

   - **c.** Secure RSP straps. Fences will be removed later today.

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2) **FLIPPA and M-02 (IAPS) Relocate**
   - **a.** Unbuckle straps from PMM1A3.
   - **b.** Perform moves per Table B.

Table B: PMM1A3 RSP front cargo

Current Location	Item	Final Location	Notes
PMM1A3 front	FLIPPA (in foam cushion)	PMM endcone	Add brown label with "HTV2 Trash item #1203.1". FLIPPA will be removed from the foam and restowed later in the PMM.
	M-02 Bag (IAPS)	PMM endcone	Add purple label "Restow in PMM1A2".

   - **c.** Secure RSP straps. The fences will be removed later and disposed in HTV2.

3) CCAA Heat Exchanger Removal from PMM1A2

- **a.** Perform Uplinked Procedures; US SODF: IFM; 26-0778 9.5.110 CCAA Heat Exchanger FSE Removal from RSP - PMM1A2. Reference Stow Note on timeline activity.
- **b.** Restow CCAA heat exchanger in the PMM endcone. Add a purple label “Restow in PMM1A4”.

4) M-03 Bag (Treadmill) Relocate

- **a.** Unbuckle straps from PMM1A1.
- **b.** Relocate M-03 bag (Treadmill) to PMM endcone. Add a purple label “Restow in PMM1A4”.
- **c.** Secure RSP straps. This RSP will be disposed on HTV2.

5) PMM1A3 Front Fence Removal: Perform Uplinked Procedures; US SODF: IFM; 26-0772 (MSG 043) 9.5.103 Resupply Stowage Platform (RSP) Dismantle; Steps 2.5-2.11. Remove M-O1 and M-O2 fences/straps from PMM1A3 rack front. Reference Stow Note. The activity on Steve may be a little short on time, so Eric was given 15 extra minutes during the PMM1F1 fence removal activity to finish the A3 fences if necessary.

6) PMM1F1 Front Fence Removal: Perform Uplinked Procedures; US SODF: IFM; 26-0772 (MSG 043) 9.5.103 Resupply Stowage Platform (RSP) Dismantle; Steps 2.5-2.11. Remove M-01 and M-02 fences/straps from PMM1F1 rack front. Reference Stow Note. Eric – you were given 15 extra minutes for this activity in case you need to help finish the A3 fence removals.

7) **M-03 (Robonaut Accessories) Relocate – this is broken into two parts on the timeline…for the first part you should accomplish the reconfig of the bag contents; for the second part you should transfer the bag to LAB1P1 after the ZSR move.**

a. Unbuckle straps from PMM1F2.
b. Perform moves per Table C.
Table C: M-03 Robonaut Accessories

Current Location	Item	Final Location	Notes
PMM1F2 front	M-03 Bag	Temp stow in PMM	
	Foam cushions, qty 9	PMM endcone	These are all the cushions in the bag EXCEPT the one that contains the base plate. Please tape them together…these cushions are NOT part of the HTV2 disposal plan. We will trash these on another vehicle..probably ATV2. Put them in the back most part of the PMM endcone.
	Pry Rod	A/L1O1 in M-02 bag S/N 1038	
	Base plate (in foam cushion)	Keep in M-03 bag	
	Task Panel		
	Task Board		
	UOP Cable		
	M-01 Bag		

c. Secure RSP straps. The M-03 fence will be removed later.
d. Move the M-03 bag from PMM to LAB1P1.

8) **PMM1PF1 bracket install**: Perform Uplinked Procedures; US SODF: IFM; 26-0770 9.5.101 PMM Standoff Bracket Installation; Steps 2, 3, 5 Install Type A, B Brackets at PMM1PF1. Reference Stow Note.

9) **PMM1PF1 pivot fitting install**: Perform Uplinked Procedures; US SODF: IFM; 26-0771 (MSG 044) 9.5.102 PMM Rack Hardware Installation; Step 1. Install Pivot Fittings at PMM1PF1. Reference Stow Note.

10) **LAB1P1 ZSR Relocate**:
   - **a.** There are CTBs currently located behind the LAB1P1 ZSR. Those CTBs need to transfer with the ZSR and be restowed behind the ZSR in the PMM1P1 location.
   - **b.** The Smoke Detector at LAB1PD1 will be removed and then reinstalled per the timeline as part of this rack move.
   - **c.** Perform Uplinked Procedures; US SODF: IFM; 26-0581 (MSG 046) 9.5.106 ZSR Transfer from LAB1P1 to PMM1P1; skip steps 1.2 and 5.2. Relocate LAB1P1 to PMM1P1.

11) **PMM1F2 Front Fence Removal and stow in endcone:**
   - **a.** Perform Uplinked Procedures; US SODF: IFM; 26-0772 (MSG 043) 9.5.103 Resupply Stowage Platform (RSP) Dismantle; Steps 2.1-2.3. Remove M-O3 fence/straps from PMM1F2 rack front. Reference Stow Note.
   - **b.** After the M-03 fence is removed, restow the fence around the M-03 treadmill bag in the PMM endcone.

12) **SLEEPR (Robonaut) Relocate**
   - **a.** Unbuckle straps from PMM1A4.
   - **b.** Relocate SLEEPR (Robonaut) to LAB1P1 rack bay.
   - **c.** Remove the Robonaut patch from the SLEEPR and transfer it to mddk. Reference Transfer List Return Item 745.
   - **d.** Secure RSP straps. This RSP will be disposed on HTV2.

PMM Get Ahead (not timelined)

If anyone gets ahead on their tasks and would like to work on other PMM Reconfig tasks please perform the moves listed in Table D. Perform as many as time permits and report to MCC-H which item numbers are complete. This will help us replan for future PMM days.

1) LAB1O5 Cleanout

a. Relocate cargo per Table D.

Table D: LAB1O5 cargo

✓	Ref #	Current Location	Item	S/N	B/C	Qty	Notes	New Location
	1a	LAB1O5	1.0 CTB: TEPC Hardware	1064	003866J	1	Unpack per 1b.	NOD3A2
	1b		CUSHION, TEPC ASSY	N/A	N/A	1		HTV2 endcone
	2		1.0 CTB: PCS Hardware	1144	004138J	1	Add purple label with “Restow in TBD later”. Put in back layer.	PMM Endcone
	3		3.0 CTB: Mixed Stuff Bag	1046	004231J	1	Add purple label with “Restow in PMM1A3”. Put in front layer.	PMM Endcone
	4		3.0 CTB: LHA/WIF Extender	1057	004242J	1	Add purple label with “Unpack in PMM later”. Put in back layer.	PMM Endcone
	5		3.0 CTB: 1/2 Box #1	1078	006735J	1	Add purple label with “Restow in PMM1F3”. Put in front layer.	PMM Endcone
	6		3.0 CTB: LiOH #32 - #40	1082	006739J	1	Add purple label with “Unpack in PMM later”. Put in back layer.	PMM Endcone
	7		3.0 CTB: 1/2 Box #2	1083	006740J	1	Add purple label with “Restow in PMM1F3”. Put in front layer.	PMM Endcone

✓	Ref #	Current Location	Item	S/N	B/C	Qty	Notes	New Location
	8		M-02 Bag: VTR/OOR/Food	1013	004380J	1	Add purple label with "Restow in PMM1A3". Put in front layer.	PMM Endcone
	9		M-02 Bag: Bacteria Filter/Gas Separator ORU/EVA ORU Bag	1020	004401J	1	Add purple label with "Unpack in PMM later". Put in back layer.	PMM Endcone
	10		M-02 Bag: Particulate Filter ORU	1027	004393J	1	Add purple label with "Restow in PMM1A2". Put in front layer.	PMM Endcone
	11		M-02 Bag: Crew Provisions/Gas Separator ORU/Bonus Food	1041	003026J	1	Add purple label with "Unpack in PMM later". Put in back layer.	PMM Endcone
	12		Foam Pack for NCPS & 2 Flex Hoses	01	00127881K	1	Add purple label with "Restow in PMM1F3". Put in front layer.	PMM Endcone
	13		MELFI Extractor Bag	01	MEFEB001J	1	Add purple label with "Restow in PMM1F3". Put in front layer.	PMM Endcone