STS-131/19A

FD 07 Execute Package

MSG	Page(s)	Title
044	1 - 15	FD07 Flight Plan Revision
045	16 - 17	FD07 Mission Summary
046A	18 - 20	FD07 Transfer Message
047	21	FD07 Crew Choice Downlink

Approved by FAO:
L. Rush

Last Updated: Apr 11 2010 1:16 AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v3.0*

"TOP 10 SONGS TO GO WITH THE ASCENT WINDOW 4 VIDEO"

(FYI, the video was just a bunch of blackness)
(20) '*Man in Black'* - Johnny Cash
(19) '*Black or White'* - Michael Jackson
(18) '*I Wear My Sunglasses at Night'* - Corey Hart
(17) '*Black Bird*' - The Beatles
(16) ' *Blinded by the Light'* - Manfred Mann's Earth Band
(15) '*Black Hole Sun'* - Soundgarden
(14) '*Men in Black'* – Will Smith
(13) *'We didn't start the fire'* – Billy Joel
(12) '*Black Water'* – Doobie Brothers
(11) '*Back in Black*' – AC-DC
(10) *'Honkytonk Badonkadonk'* – Toby Keith
(9) '*Fade to Black*' – Rolling Stones
(8) *'Boogie Nights'* – the Heatwave
(7) "*FREE BIRD*!" – Lynyrd Skynyrd
(6) '*Rockin' the Beer Gut'* – Trailer Park Choir
(5) '*Strangers in the Night'* – Frank Sinatra
(4) '*Heartache Tonight'* – the Eagles
(3) '*Paint it Black'* – Rolling Stones
(2) '*All NightLong'* – Lionel Richie

…. And the #1 SONG to go with the Window 4 Ascent Video is …

(1) *'Lookin' like a fool with your pants on the ground'* – G. Ensee

Disclaimer: The comedy provided is a paid advertisement and does not reflect the views of the FAO team.

MSG INDEX

MSG NO.	TITLE
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MSG-045	FD07 Mission Summary
MSG-046	FD07 Transfer Message (23-0227)
MSG-047	FD07 Crew Choice Downlink (23-0228)

1. Post-Sleep Cryo Config

For today's post-sleep cryo config, O2 tanks 2, 3, and 4, and H2 tanks 2 and 5 will be active.

R1 O2,H2 MANF VLV TK2 (two) - OP (tb-OP)
O2 TK3 HTR A – AUTO

A11 CRYO TK4 HTR O2 A - AUTO

A15 CRYO TK5 HTR O2 A – OFF

Pre-Sleep Cryo Config

√MCC for deltas prior to configuring for pre-sleep.

For tonight's cryo config, manifold 2 will be closed with O2 and H2 tanks 2 and 5 active.

A15 CRYO TK5 HTR O2 A - AUTO

A11 CRYO TK4 HTR O2 A - OFF

R1 O2 TK2 HTR O2 B - OFF
TK3 HTR O2 A - OFF
O2,H2 MANF VLV TK2 (two) - CL (tb-CL)

2. Comm Loop Overview FLIGHT DAY 7

S/G 1 & A/G 1	S/G 2	A/G 2
EVA 2 - EV Crew	SSRMS Details	EVA 2 - IV Comm to MCC
Robotics EVA 2 Support	ISS Payloads & Racks	Transfer
Exercise Constraints	DPC	All other STS Comm
	Russian Ops	
	All other ISS Comm	

3. Russian Segment Cleaning during EVA Prep
   This morning during EVA prep, Mikhail will be cleaning fans and filters in the SM and FGB. These are similar activities to the one that caused the SM-Smoke warning yesterday. The ISS crew will inspect for actual smoke per procedure and the Airlock crew should await those inspection results prior to breaking the prebreathe protocol.

4. FD06 MMT Summary
   The MMT met to review orbiter systems and mission progress. Discovery and her crew continue to perform well. The mission is progressing extremely well, and the team is looking forward to today's EVA.

5. REPLACE PAGES 2-22, 2-24, 2-26 and 3-68 THROUGH 3-77.

FD06 **REPLANNED**

GMT 04/10/10 (100)
β = −9
MET Day 005

06 17 18 19 20 21 22 23 04/11 01 02 03 04
07 08 09 10 11 12 13 14 15 16 17 18

STS-131

CDR POINDEXTER	PMC A/G	PRE SLEEP	ISS EXTERNAL SURVEY	SLEEP	FD07	POST SLEEP	PMC S/G	POST SLEEP	OMS*	ILOFF	INHIB	PAD	MPLM XFER					
PLT DUTTON	PRE SLEEP	SLEEP	POST SLEEP	HYG BRK/ HATCH CLS	EVA PREP													
MS1 MASTRACCHIO	10.2 DPRS MASK P/B	PRE SLEEP	ISS A/L Campout at 10.2 psi	SLEEP	POST SLEEP	14.7 RPRS	10.2 DPRS HYG BRK/PREBREATHE	EVA PREP										
MS2 METCALF-LINDENBURGER	PRE SLEEP	SLEEP	POST SLEEP	MCIU	MPLM XFER													
MS3 WILSON	PRE SLEEP	SLEEP	LOG	POST SLEEP	MDK	MPLM XFER												
MS4 YAMAZAKI	PRE SLEEP	SLEEP	LOG	POST SLEEP	XFER	UPDAT	MPLM XFER											
MS5 ANDERSON	10.2 DPRS MASK P/B	PRE SLEEP	ISS A/L Campout at 10.2 psi	SLEEP	POST SLEEP	14.7 RPRS	10.2 DPRS HYG BRK/PREBREATHE	EVA PREP										

TDRS W E Z

DAY/NIGHT

ORBIT 84 85 86 87 88 89 90 91

ORB ATT BIAS -XLV -ZVV

TDRS AVAIL

NOTES *A POD HTR RECONFIG

FD07 **REPLANNED**

GMT 04/11/10 (101)
β = −6
MET Day 005

18 19 05 06 07 08 09 10 006/00 11 12 13 14 15 16 20 21 22 23 01 02 03 04 05 06

STS-131

CDR POINDEXTER	MPLM XFER	P/TV 07 S/U	P/TV07 EVA	MEAL	IMU	CINCT #2	P/TV07 EVA	CTCWCM	CXFER CWC	P/TV07 EVA	PTV07	MPLM XFER	EXERCISE	ILON	PRE SLEEP									
PLT DUTTON	EVA PREP	EMU PURGE	EMU PREBREATHE	C-LK DPRS	P-DPS	EVA 2 SSRMS SUPPORT	P-RPS	C-LK RPRS	POST EVA W/H2O	EXERCISE	PRE SLEEP													
MS1 MASTRACCHIO	EVA PREP	EMU PURGE	EMU PREBREATHE	C-LK DPRS	P-DPS	EGRS	S1 ATA RMV AND H/O	ATA TIEDOWN CETA	P1 RAD GF BEAM	AGB REL	ATA INSTL S1	S1 ATA CNCTRS	CETA ATA REL	A/L MMOD INST	INGRS	P-RPS	C-LK RPRS	POST EVA W/H2O		PRE SLEEP				
MS2 METCALF-LINDENBURGER	MPLM XFER	EVA IVA SPPRT PREP	EVA IVA SUPPORT	EXERCISE	MPLM XFER	PRE SLEEP																		
MS3 WILSON	MPLM XFER	DOUG	S/U	EVA 2 SSRMS SUPPORT	TESS XFER	MPLM XFER	MDK	AEM#	XFER	TAGUP	PRE SLEEP													
MS4 YAMAZAKI	MPLM XFER	EXERCISE	MPLM XFER	MEAL	GLACIER XFER	HRF2 RACK RCFG	MPLM XFER	TESS XFER	MPLM XFER	PRE SLEEP	XFER	TAGUP	XFER BRIEF	PRE SLEEP										
MS5 ANDERSON	EVA PREP	EMU PURGE	EMU PREBREATHE	C-LK DPRS	P-DPS	EGRS	S1 ATA RMV AND H/O	ATA TIEDOWN CETA	P1 RAD GF BEAM	AGB REL	ATA INSTL S1	APFR RE-LOCATE	CETA ATA REL	A/L MMOD INST	INGRS	P-RPS	C-LK RPRS	POST EVA W/H2O		PRE SLEEP				

EVA 2 (6:30)

TDRS W E Z

DAY/NIGHT

ORBIT 91 92 93 94 95 96 97 98 99

ORB ATT BIAS -XLV -ZVV

TDRS AVAIL

NOTES

NO UNISOLATED EXERCISE (APFR OPS)

NO EXERCISE (Dual Grapple)

NO UNISOLATED EXERCISE (APFR OPS)

(ESP-2) NO UNISOLATED EXERCISE

NO EXERCISE (Dual Grapple)

#STATUS CHECK

REPLANNED

FD07

GMT 04/11/10 (101)
β = −4
MET Day 006

06 17 18 19 20 21 22 23 04/12 01 02 03 04
07 08 09 10 11 12 13 14 15 16 17 18

STS-131

CDR POINDEXTER	♣ PMC A/G; PRE SLEEP	ISS EXTERNAL SURVEY: SLEEP	FD08	POST SLEEP
PLT DUTTON	PRE SLEEP	SLEEP		POST SLEEP; ILOFF
MS1 MASTRACCHIO	PRE SLEEP	SLEEP	ASPRN	POST SLEEP
MS2 METCALF-LINDENBURGER	PRE SLEEP	SLEEP		POST SLEEP
MS3 WILSON	PRE SLEEP	SLEEP	LOG	POST SLEEP
MS4 YAMAZAKI	PRE SLEEP	SLEEP	LOG	POST SLEEP
MS5 ANDERSON	PRE SLEEP	SLEEP	ASPRN; LOG	POST SLEEP

TDRS W E Z

DAY/NIGHT

ORBIT: 99 100 101 102 103 104 105 106 107

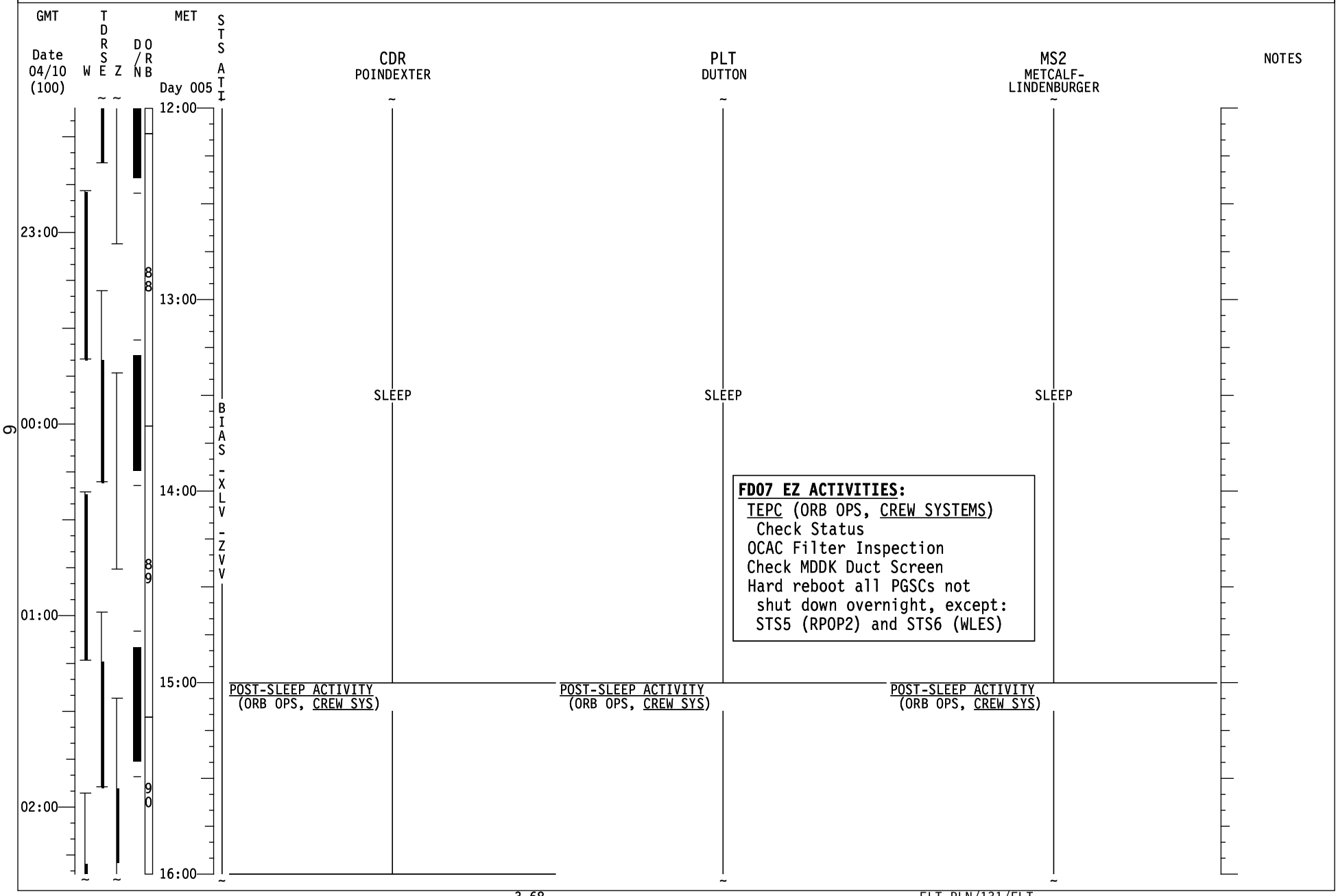
ORB ATT: BIAS -XLV -ZVV

TDRS AVAIL

NOTES: ♣PRE SLEEP

STS-131/19A FD07

REPLANNED



STS-131/19A FD07

REPLANNED

GMT Date 04/10 (100) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

12:00 | 13:00 | 14:00 | 15:00 | 16:00 | 23:00 | 00:00 | 01:00 | 02:00

88 | 89 | 90

BIAS-XLV-ZVV

SLEEP

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H will perform steps 1-4, 16-20, and 23.

SLEEP LOGBOOK (SDBI 1634)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

STS-131/19A FD07

REPLANNED

GMT Date 04/11 (101) | W | T D R S E | Z | D/N | O R B | MET Day 005 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

16:00

PRIVATE MEDICAL CONFERENCE VIA S/G 2

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA SYSTEMS: 1.211 HYGIENE BREAK
Steps 21-end. MCC-H will perform step 23.

03:00

EVA SYSTEMS: 1.216 EVA PREP

17:00

A A14 RCS/OMS HTR L POD - B OFF
- A AUTO

RCS/OMS POD HTR RECONFIG A

ILLUMINATOR OPS (Cue Card, TV)
ILLUMINATOR OFF - ALL

EVA 2 INHIBIT PAD (EVA, TIMELINES)

L17 Check MCIU filter screen

04:00

18:00

TRANSFER OPS
Ref. MPLM Transfer Lists and MSG 046

EVA SYSTEMS: 1.220 EMU PURGE

TRANSFER OPS
Ref. MPLM Transfer Lists and MSG 046

EVA SYSTEMS: 1.225 EMU PREBREATHE

05:00

19:00

IVA SUPPORT PREP

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK DEPRESS

06:00

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

20:00

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

C-LK DPRS/RPRS CC (POST DEPRESS)

IVA SUPPORT FOR EVA 2

BIAS-XLV-ZVV

90 91 92 93

STS-131/19A FD07

REPLANNED

GMT Date 04/11 (101) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

MS1 MASTRACCHIO	MS3 WILSON	MS4 YAMAZAKI	MS5 ANDERSON	NOTES
EVA SYSTEMS: 1.211 HYGIENE BREAK MCC-H will perform steps 1-4, 16-20, and 23.	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	EVA SYSTEMS: 1.211 HYGIENE BREAK MCC-H will perform steps 1-4, 16-20, and 23.	
EVA SYSTEMS: 1.216 EVA PREP		DAILY TRANSFER LIST UPDATE Ref. Transfer Lists & MSG 046	EVA SYSTEMS: 1.216 EVA PREP	
	MERLIN STATUS CK (Cue Card) GLACIER STATUS CK (Cue Card) STL STATUS CK (Cue Card)			
EVA SYSTEMS: 1.220 EMU PURGE		TRANSFER OPS Ref. MPLM Transfer Lists and MSG 046	EVA SYSTEMS: 1.220 EMU PURGE	
EVA SYSTEMS: 1.225 EMU PREBREATHE	TRANSFER OPS Ref. MPLM Transfer Lists and MSG 046		EVA SYSTEMS: 1.225 EMU PREBREATHE	
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD Perform CREWLOCK DEPRESS		EXERCISE	EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD Perform CREWLOCK DEPRESS	
	POC: 2.7.501 DOUG STARTUP PROCEDURE Step 1			
C-LK DPRS/RPRS CC (POST DEPRESS)	ROBO: 1.310 EVA 2 SUPPORT		C-LK DPRS/RPRS CC (POST DEPRESS)	

Time scale: 03:00, 04:00, 05:00, 06:00; MET 16:00, 17:00, 18:00, 19:00, 20:00

ORB: 90, 91, 92, 93

STS ATI: BIAS-XLV-ZVV

STS-131/19A FD07

REPLANNED

GMT Date 04/11 (101) | W | TDRS E | Z | DO/N | ORB | MET Day 005 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

20:00

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

ROBO: 1.310 EVA 2 SUPPORT

07:00

93

21:00

08:00

BIAS-XLV-ZVV

MEAL

94

22:00

IVA SUPPORT FOR EVA 2

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS)
Perform CWC FILL #2, Ref. MSG 012

09:00

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

23:00

95

10:00

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

CWC TRANSFER
Transfer CWC to ISS

00:00

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

NO EXERCISE (WHILE ATA IS DUAL GRAPPLED BY SSRMS & POA)

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

STS-131/19A FD07

REPLANNED

GMT Date 04/11 (101) | W | TDRS E | Z | DON/B | ORB | MET Day 005 | STS ATI

07:00 | 08:00 | 09:00 | 10:00

93 | 94 | 95

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

BIAS-XLV-ZVV

MS1 MASTRACCHIO	MS3 WILSON	MS4 YAMAZAKI	MS5 ANDERSON	NOTES
EGRESS	ROBO: 1.310 EVA 2 SUPPORT		EGRESS	
RELEASE S1 ATA & H/O TO SSRMS		TRANSFER OPS Ref. MPLM Transfer Lists and MSG 046	RELEASE S1 ATA & H/O TO SSRMS	NO UNISOLATED EXERCISE (WHILE CREW IN APFR)
TIEDOWN OLD ATA TO CETA CART			TIEDOWN OLD ATA TO CETA CART	
P1 RAD GF STOW BEAM INSTL		MEAL	P1 RAD GF STOW BEAM INSTL	NO EXERCISE (WHILE ATA IS DUAL GRAPPLED BY SSRMS & POA)
AGB RELEASE		19A GLACIER TRANSFER AND INSTALLATION (ASSY OPS, PAYLOADS) Ref. MPLM Transfer Lists: Items 162, 761, & 762	AGB RELEASE	
INSTALL ATA ON S1		1.135 19A JOINT OPS HRF RACK 2 RECONFIGURATION (ASSY OPS, ACT & C/O) Steps 1,3-8 Ref. MPLM Transfer Lists Items: 132, 146, 422, 756, & 757	INSTALL ATA ON S1	NO UNISOLATED EXERCISE (WHILE CREW IN APFR)
S1 ATA CONNECTORS		TRANSFER OPS Ref. MPLM Transfer Lists and MSG 046	APFR RELOCATE	

STS-131/19A FD07

REPLANNED

GMT Date 04/11 (101) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 006 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | **NOTES**

00:00 — 01:00 — 02:00 — 03:00 — 04:00 — 11:00 — 12:00 — 13:00 — 14:00

ORB: 95, 96, 97, 98

STS ATI: BIAS-XLV-ZVV

CDR

CWC TRANSFER
Transfer CWC to ISS

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

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

TRANSFER OPS
Ref. MPLM Transfer Lists
and MSG 046

EXERCISE

PLT

ROBO: 1.310 EVA 2 SUPPORT

C-LK DPRS/RPRS CC (PRE REPRESS)

EVA SYSTEMS: CREWLOCK
DEPRESS/REPRESS CUE CARD
Perform CREWLOCK REPRESS

EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES
TRACKING CUE CARD

MS2

IVA SUPPORT FOR EVA 2

EXERCISE

TRANSFER OPS
Ref. MPLM Transfer Lists
and MSG 046

NOTES

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

NO UNISOL EXER (WHILE CREW ON ESP#2)

NO EXERCISE (WHILE ATA IS DUAL GRAPPLED BY SSRMS & POA)

STS-131/19A FD07

REPLANNED

GMT Date 04/11 (101) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 006 | STS ATI

MS1 MASTRACCHIO

S1 ATA CONNECTORS

RELEASE CETA ATA & INSTALL AGB

A/L MMOD SHIELDS

INGRESS

C-LK DPRS/RPRS CC (PRE REPRESS)

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK REPRESS

EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES TRACKING CUE CARD

MS3 WILSON

ROBO: 1.310 EVA 2 SUPPORT

2.120 TeSS TRANSFER FROM ISS TO MPLM
(ASSY OPS, TRANSFER)
Ref. MPLM Return Transfer List: Items 652 & 654

TRANSFER OPS
Ref. MPLM Transfer Lists and MSG 046

MS4 YAMAZAKI

TRANSFER OPS
Ref. MPLM Transfer Lists and MSG 046

2.120 TeSS TRANSFER FROM ISS TO MPLM
(ASSY OPS, TRANSFER)
Ref. MPLM Return Transfer List: Items 652 & 654

TRANSFER OPS
Ref. MPLM Transfer Lists and MSG 046

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS5 ANDERSON

APFR RELOCATE

RELEASE CETA ATA & INSTALL AGB

A/L MMOD SHIELDS

NO UNISOL EXER (WHILE CREW ON ESP#2)

INGRESS

C-LK DPRS/RPRS CC (PRE REPRESS)

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK REPRESS

EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES TRACKING CUE CARD

NOTES

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

NO EXERCISE (WHILE ATA IS DUAL GRAPPLED BY SSRMS & POA)

STS-131/19A FD07

REPLANNED

GMT Date 04/11 (101) | W E Z | D/N | ORB | MET Day 006 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

04:00 — 15:00 — 16:00 — 17:00 — 18:00 — 05:00 — 06:00 — 07:00 — 08:00

98 — 99 — 100

BIAS-XLV-ZVV

CDR:

EXERCISE

ILLUMINATOR OPS (Cue Card, TV)
ILLUMINATOR ON - A,D

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
Air Quality Report

L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

PLT:

EXERCISE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CREW WAKEUP AT 06/15:30

SLEEP

MS2:

TRANSFER OPS
Ref. MPLM Transfer Lists
and MSG 046

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

NOTES:

SSRMS WALKOFF
TO N2 PDGF

STS-131/19A FD07

REPLANNED

GMT Date 04/11 (101) | W | TDRS E | Z | DON/B | MET Day 006 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

04:00

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

15:00

05:00

TRANSFER OPS
Ref. MPLM Transfer Lists and MSG 046
MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)

TRANSFER TAGUP
Coordinate with transfer counterparts

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

TRANSFER TAGUP
Coordinate with transfer counterparts

TRANSFER BRIEF
Call down status to MCC

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

16:00

06:00

17:00

07:00

CREW WAKEUP AT 06/15:30

18:00

08:00

SLEEP | SLEEP | SLEEP | SLEEP

98 | 99 | 100

BIAS -XLV -ZVV

Discovery,

Great job on transfer activities yesterday! We are looking forward to another outstanding EVA today.

YOUR CURRENT ORBIT IS: 191 X 182 NM

NOTAMS (MRN CLOSED)

EDW -	EDT 22R/04L IN USE. EDW 22/04 CLOSED FOR CONSTRUCTION.
EDW -	LAKEBED RWYS RED.
NOR -	LAKEBED RWYS GREEN.
FOK -	RWY 06/24 CLOSED.
DOV -	RWY 32 REIL OTS.
FMH -	RWY 23 ALS OTS.
YYT -	TACAN UYT23 AZIMUTH OTS.
JTY -	RWY 18 ALS OTS.
MYR -	RWY 18/36 CLOSED FROM 0340 - 0930 GMT.
KKI -	TACAN RIY92 OTS.
MRN -	RWY 02/20 CLOSED
IKF -	NOT USABLE. NO AGREEMENT.
BEN -	NOT RECOMMENDED/NOT SUPPORTED.

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

NOR23 (ASCENDING) ORB 94 – 5/22:06 SCT120 BKN250 160/04P06
NOR23 (DESCENDING) ORB 114– 7/04:57 SCT080 160/08P12

<u>OMS TANK FAIL CAPABILITY:</u>

L OMS FAILS: NO
R OMS FAILS: NO

<u>LEAKING OMS PRPLT BURN:</u>

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

<u>OMS QUANTITIES(%)</u>

L OMS OX = 34.08 R OMS OX = 35.28
FU = 33.60 FU = 35.21

DELTA V AVAILABLE:

OMS	372 FPS
ARCS (TOTAL ABOVE QTY1)	30 FPS
TOTAL IN THE AFT	402 FPS
ARCS (TOTAL ABOVE QTY2)	63 FPS
FRCS (ABOVE QTY 1)	30 FPS
AFT QTY 1	81 %
AFT QTY 2	43 %

SYSTEM	FAILURE	IMPACT	WORK AROUND
EVA	EV1 (Mt) CCA s/n 1209 intermittent comm loss in the left ear. EV2 (Ad) CCA s/n 1189 comm drop outs during ingress.	Loss of comm during the EVA	Use backup CCA s/n 1198 (MT2) and backup CCA s/n 1185 (AD2) for subsequent EVA's
EVA	EV1 (Mt) biomed data issue during EVA 1	Loss of Biomed Data during the EVA	No planned changes for EVA 2. Issue will be worked real-time if biomed data is not seen pre-EVA.

Good Morning Naoko and Steph,

Congrats on completing all the rack transfers yesterday! I'm sure it was nice to finally be unloading the majority of the resupply items from the MPLM as well. Thanks for another hard day of work!

Today you'll be transferring and installing the Glacier from the MPLM, in addition to reconfiguring the HRF Rack 2 by removing a couple drawers and installing two new ones. You'll also be strapping the large TeSS pieces to the A3 rack for return. The remaining time should be spent finishing up unconstrained resupply and continuing return.

The Transfer List Excel file, FD07_Transfer_List_STS131.xls, locations are:

- Shuttle: **C:\OCA-up\transfer** (KFX machine)
- Station: **K:\OCA-up\transfer**

<u>Transfer Notes</u>

- **Transfer Time Status:** First of all we want to let you know that you are doing great with transfer ops, and we can see the results of your hard work. Our time calculations are still showing us slightly behind on the timeline; however, this is solely due to new return items added to the plan as well as the additional packing constraints identified real-time. We are currently working to get additional MPLM time added to your timeline.

- **Work Lights:** It has been requested that we go ahead and return the ISS work lights (s/n 1020 and 1021) originally planned for return (Middeck Return Item 719) in addition to the new lights that are broken. We have added these lights back to your transfer list as item 719.

- **Extra MPLM Foam:** The extra foam pieces that would not fit in F1_A1 and F1_C1 can be added to F1_K1 around the IELK. If this does not work, F1_H1 is an alternate option as well. Please let us know where you end up stowing these pieces.

- **Item 630 (WHC Trash):** We understand that item 630 (WHC Trash 3.0 CTB) will not fit in MPL1P4_G2. In order to return as much of it as possible, we have updated your return plan to have you remove the items that need containment and leave them on ISS. In addition, we are requesting that you remove as much other hardware as needed to fit the CTB in the RSR. Please report which items you removed.

- **Delete Item 631 (3.0 CTB of Payloads Trash):** As we told you last night, we have deleted item 631 (WHC Trash) from your transfer plan. We apologize for the inconvenience of having you transfer it back to ISS, but when you do please stow it at NOD3F5.

- **Delete Item 657 (3.0 CTB of TeSS Blankets):** Due to the addition of the BSTC (MPLM Return Item 1001) for return today, we will no longer be able to accommodate the 3.0 CTB of TeSS blankets (item 657) for return. Therefore this item has been removed from your transfer plan today.

- **Item 425 (0.5 CTB of Samples):** We think we copied that you could not stow item 425 in MF43C. If this is the case, we would like you to swap it for item 618 in Bag G. Therefore, item 618 will then return in MF43C instead. We have not updated your transfer plan to reflect this yet, in case we heard you wrong.

- **Foam Plan Updates:** Due to accommodating the extra RFTA in the MPLM for return, we've had to update your foam plan a bit. We've moved some foam between the ISPs and M-bags, in addition to moving the MARES M-01 bag to the MPL1S3 ISP. Also, please plan to stow the nomexed ISP foam wedges in between the straps and the foam/M-bags on the ISPs for return. Your transfer plan has been updated to reflect this.

- **Glacier IVA Handrail:** For today's Glacier Transfer activity, the Glacier IVA Handrail has been pre-gathered at LAB1O1_M1 (EXPRESS Rack 2).

<u>FD07 Choreography</u> (in timeline order)

- **Item 162:** Transfer Glacier from MPL1F3_H1 and install at LAB1O1_G1 per GLACIER XFER activity.
- **Items 761 and 762:** Transfer LAB1O1_G1 and J1 lockers to MPL1F1_H1 & A3_K1 following GLACIER XFER activity.
- **Items 132 and 146:** Transfer HRF 8PU Stowage Drawers from MPL1A4_A1 and MPL1F2_A1 to COL1A4_D1 and COL1A4_G1 respectively per HRF2 Rack Reconfig.
- **Items 422, 756 and 757:** Transfer the HRF Standard Stowage Drawer, GASMAP Analyzer, and HRF2 Workstation following HRF2 Rack Reconfig.
- **Item 103:** Scavenge MPL1PA3 LHA prior to stowing TeSS pieces for return - call MCC to open RPC.
- **Items 652 and 654:** Transfer per TeSS Transfer from ISS to MPLM.
- Deploy fences on F1 and F3 RSPs.
- Return M-bags temp-stowed in A1 inter-rack bungee jail to F1and F3 RSP locations.

Please incorporate uplink pages as follows (we've listed the updates in the order they printed out for you):

In the Middeck Transfer List **RETURN** tab
Replace the following pages:
Return 1
Return 2
Return 7
Return 8

In the MPLM Resupply Transfer List **A4 RSP** tab
Replace the following page:
Resupply 18

In the MPLM Return Transfer List **LAYOUTS** tab
Replace the following pages:
L-3 thru L-7
L-9
L-10
L-18
L-25
L-31
L-32
L-38
L-45
L-46
L-48

In the MPLM Return Transfer List **RETURN** tab
Replace the following page:
Return 15
Return 16
Return 17
Return 18
Return 20
Return 21
Return 22
Return 24
Return 31 (we know this is out of order, but makes the most sense here)

In the MPLM Return Transfer List **MPLM FOAM** tab
Replace the following page:
Return 27
Return 28
Return 29

<u>FD08 Choreography</u> (in timeline order)

- **Item 288:** Transfer ERCAs 19 & 20 from MPL1S4_K1 for ERCA Retrieve and Swap activity.
- **Item 753:** Transfer ERCA 16 to MPLM for return follwing the ERCA Swap activity.
- Transfer ETVCG Light from MPL1S4_D2 for EVA 3 prep.
- **Item 195:** Transfer CLPA from MPL1P4_K1 for EVA 3 prep.
- **Item 712:** Transfer cold samples from MELFI to Glacier per GLACIER MELFI XFER activity.
- **Items 772 thru 778:** Transfer MARES M-bags, fences, struts, and bolts to MPLM for return following MARES STOWAGE CONFIG.
- **Item 1001:** Remove BSTC and transfer to MPLM.

Have a great day and let us know if you have any questions!

- The STS-131 Transfer Team

MSG 047 (23-0228) - FD07 CREW CHOICE DOWNLINK

TDRS	AOS	LOS	Delta (min)	Notes
W-TDW	06/04:38	06/05:18	40	
E-TDE	06/05:22	06/05:53	31	
W-TDW	06/06:14	05/06:48	34	
E-TDE	06/06:54	06/07:28	34	

Note: Please notify MCC-H 10 minutes prior to the event to allow for ground network configuration.