STS-127 / 2JA

FD 08 Execute Package

MSG	Page(s)	Title
055A	1 - 14	FD8 Flight Plan Revision **(pdf)**
056	15 - 16	FD8 Mission Summary **(pdf)**
057	17	H2O Ops Cue Card **(pdf)**
059	---	Crew Execute Notes for JEMRMS Pen and Ink Changes **(Electronic Only)**

Approved by FAO: *T. Melroy*

Last Updated: Jul 22 2009 9:29AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG 055A - FD08 FLIGHT PLAN REVISION

MSG INDEX

MSG NO.	TITLE
055A	FD8 Flight Plan Revision
056	FD8 Mission Summary
057	H20 Ops Cue Card
059	Crew Execute Notes for JEMRMS Pen and Ink Changes

1. POST SLEEP CRYO CONFIG

For today's 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 HTRS A,B (two) - AUTO

A11 CRYO TK4 HTRS O2 A,B (two) - AUTO

A15 CRYO TK5 HTR O2 A - OFF

2. WHC STATUS

Today the WHC will be unavailable for 50 minutes during the WHC Flush Water Tank (ЕДВ-СВ) manual fill. The manual fill is scheduled to begin at GMT 14:23 (MET 16:20) requiring 10 min crew action for Frank, followed by a ~35 min fill, and finally 5 min of closeout steps. No WHC use is allowed during the fill because flush water will not be available to run the dose pump.

3. H2O OPS CUE CARD AND CWC SAMPLE BAG TRANFER

We've uplinked a new H2O Ops Cue Card (MSG057)for the remaining CWC and PWR fills.

Prior to the first CWC fill, transfer 4 sample bags from ISS Sample/Purge kit S/N 1005 (located in pregathered M-02 bag S/N 1026) to Shuttle Sample/Purge kit S/N 1001, located in MF71O. These four sample bags will be used for CWC fills 1-4.

4. CWC SAMPLING

For CWC SAMPLING PROCEDURE (ORB OPS, ECLS) p. 5-29, use the technical sample adaptor (green handle) for potable sample collection on CWC fills 1-4. This is different from what is referenced in the procedural note. The potable sample adaptor (blue handle) was used for the iodinated CWC samples, so the technical adaptor (green handle) will be used for the Ag biocide CWC samples.

5. SHUTTLE CONDENSATE CHANGEOUT

   Change out condensate CWC s/n 1070 with condensate CWC s/n 1054. CWC s/n 1054 is stowed in M-O2 Bag s/n 1026. Stow the full CWC s/n 1070 at NOD2_O2. Notify ISS crew of the location of CWC s/n 1070 and that this CWC will be used in the Russian segment for condensate processing in the very near future.

6. JEM WINDOW SHUTTERS

   The JEM window shutters need to be closed prior to EVA 3 and must remain closed until the end of the event.

7. ACO TRANSFER STATUS

   Please note that Transfer List Return item 725 references the EHS SM WATER COLLECT activity on FD06; however, that activity was deferred to today, so item 725 should be available to pack for return this afternoon. Please continue to reference the Transfer List electronic file, titled FD06_Transfer_List_STS127.xls, that has been uplinked to **C:\OCA-up\transfer** (KFX machine).

8. UCD STOWAGE

   Please dispose of any used UCDs as follows:
   If used UCDs are already double-bagged, place UCD-bagged assembly into Vol F (wet trash).

   Otherwise, carefully fold the used UCD and place it inside an empty Ziploc bag from the Urine Collection Kit. If you are unable to locate the original Ziploc bags, you can obtain a 12-in x 12-in replacement Ziploc bag from MF57H. Next, place the used UCD and Ziploc bag into a second 13-in x 18-in Ziploc bag from Vol B (hygiene). Lastly, place the UCD and two Ziploc bags into Vol F (wet trash).

9. JEMRMS STATUS

   MSG 059 (20-0531) has been uplinked for STS crew situational awareness only. FE-2 (Wakata) will be using this message to perform pen and ink changes to JEMRMS procedures that both ISS and STS crew will be performing on FD9.

10. REPLACE PAGES 2-26 THROUGH 2-29 and 3-80 THROUGH 3-87

NO UNISOLATED EXERCISE
[SSRMS AT EVA WS, PL PREP & P6 BATT]

REPLANNED

FD08
GMT 07/22/09 (203)
MET Day 006

12 13 14 15 16 17 18 19 20 21 22 23 007/00

STS-127

CDR POLANSKY	POST SLEEP; INHIB; PAD; COND CWC C/O; EXERCISE; P/TV 07 S/U; P/TV 07 EVA SUPT; N2*; MEAL; P/TV 07 EVA SUPT; N2*; N2 XFR-T
PLT HURLEY	POST SLEEP; EXERCISE; IMU; SSRMS ICC MVR EVA WS; SSRMS EVA 3 SUPT; SSRMS MNVR SARJ CLR; FLTR INSP
MS1 CASSIDY	POST SLEEP; HYG BRK/ PREBREATHE (14.7 RPRS, 10.2 DPRS); CAMPOUT EVA PREP; EMU; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; EGRS; SETUP; JLE PL PREP; P6 BATTERY R&R (4) EVA 3 - 6:30; CLNUP & INGRS; P-RPS; RPRS; PST EVA W/H2O METOX
MS2 PAYETTE	POST SLEEP; H2O CWC S/U; CWC #1; INIT; POST SLEEP; CWC; TERM; CXWCER; SSRMS ICC MVR EVA WS; SSRMS EVA 3 SUPT; SSRMS MNVR SARJ CLR; EXER
MS3 MARSHBURN	LOG; POST SLEEP; HYG BRK/ HATCH CLS; CAMPOUT EVA PREP; EMU; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; IVA SUPPORT EVA 3; P-RPS; RPRS; PST EVA W/H2O METOX
MS4 WOLF	POST SLEEP; HYG BRK/ PREBREATHE; CAMPOUT EVA PREP; EMU; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; EGRS; SETUP; FPP SLV INSTL; P6 BATTERY R&R (4); CLNUP & INGRS; P-RPS; RPRS; PST EVA W/H2O METOX

DAY/NIGHT
ORBIT: 104 105 106 107 108 109 110 111
TDRS: W E Z
ORB ATT: BIAS -XLV -ZVV
SSRMS POS: MBS PDGF3 @ WS8
*RPRS INIT *RPRS TERM
NOTES

NO UNISOLATED EXERCISE
[SSRMS AT EVA WS, PL PREP & P6 BATT]

REPLANNED

FD08
GMT 07/22/09 (203)
MET Day 006

12 11 12 13 14 15 16 17 18 19 20 21 22 23 007/00

ISS TDRS AVAIL

DN	FE-2 WAKATA	✱ NUTR BLOAD RCS/U RCCNFG POST SLEEP NUTR MENSFI INJSPM POST SLEEP DPC PW JEMRMS P&I VELO EXERCISE ARED HANDOVER MIDDAY-MEAL HANDOVER EMU-T NUTR URN S/U N2 XFR-T
EXP 19	ISS CDR PADALKA	POST SLEEP 18S PHOTO PW DPC DEACT 18S PHOTO EXERCISE TVIS TVIS HYG MIDDAY-MEAL IMS-EQUIP-INV3 EXERCISE ARED COX MNT
EXP 19	FE-1 BARRATT	SALIV SLEEP POST SLEEP TEST PW CAMPOUT EVA PREP EMU PURGE EMU PREBREATHE C_LK DPRS PDPS EXERCISE ARED MIDDAY-MEAL CMO OBT PLCK EXERCISE TVIS GLOVE RPRS PST EVA W/H2O METOX
UP	FE-2 EXP20 KOPRA	SALIV SLEEP POST SLEEP HYG BRK/ HATCH CLS CAMPOUT EVA PREP EMU PURGE EMU PREBREATHE C_LK DPRS PDPS ADAPT HANDOVER MIDDAY-MEAL HANDOVER CEVIS EXERCISE CEVIS P-RPS RPRS PST EVA W/H2O METOX
EXP 20	FE-3 ROMANENKO	POST SLEEP PW DPC VELO IMS-СОГС-RMV-PREP DEACT Т-ПУЛЬТ-С/О MIDDAY-MEAL IMS-EQUIP-INV3 IMS ИП-1 EXERCISE TVIS TVIS HYG
EXP 20	FE-4 THIRSK	SALIV NUTR SLEEP POST SLEEP PW DPC EHS-SM WATER-CLCT RECL LPT MIDDAY-MEAL S/U NES-EEG-S/U NES-EXP-EXECUTE EEG PHOTO STOW EXERCISE ARED SMP XFR RVW GLCR LOAD PW
EXP 20	FE-5 DE WINNE	SALIV SLEEP POST SLEEP EXERCISE ARED DPC POST SLEEP CQMK-CONSL FILL TERM MIDDAY-MEAL NES-EEG-S/U EXERCISE TVIS EEG PHOTO SMP XFR RVW GLCR LOAD PW

DAY/NIGHT

ORBIT: 104 105 106 107 108 109 110 111

SSRMS POS: MBS PDGF3 @ WS8

NOTES: ✱POST SLEEP

FD08

GMT 07/22/09 (203)

MET Day 007

007/00 23 07/23 01 02 03 04 05 06 07 08 09 10 11 12

STS-127

CDR	POLANSKY	MUS; PRE SLEEP; PMC OCA; PRE SLEEP; SLEEP; POST SLEEP
PLT	HURLEY	MUS; PRE SLEEP; SLEEP; POST SLEEP
MS1	CASSIDY	PST EVA W/H20 METOX; PRE SLEEP; SLEEP; SLVA; ASPRN; LOG; POST SLEEP
MS2	PAYETTE	EXER; MUS; PRE SLEEP; SLEEP; POST SLEEP
MS3	MARSHBURN	PST EVA W/H20 METOX; MUS; PRE SLEEP; SLEEP; SLVA; LOG; POST SLEEP
MS4	WOLF	PST EVA W/H20 METOX; PRE SLEEP; SLEEP; SLVA; ASPRN; POST SLEEP

DAY/NIGHT

ORBIT: 112 113 114 115 116 117 118 119

TDRS: W E Z

ORB ATT: BIAS -XLV -ZVV

SSRMS POS: MBS PDGF3 @ WS8

NOTES

5

FD08

GMT 07/22/09 (203)

MET Day 007

007/00 23 01 07/23 02 01 03 02 04 03 05 04 06 05 07 06 08 07 09 08 10 09 11 10 12

ISS TDRS AVAIL

DN	FE-2 WAKATA	EXDL; PW; DPC; PW; PPC; PRE SLEEP; SLEEP; NUTR URN CLCT; URNIN1
EXP19	ISS CDR PADALKA	COX MNT; DPC; PW; PRE SLEEP; SLEEP; POST SLEEP
EXP19	FE-1 BARRATT	PST EVA W/H2O METOX; IMAGE; POST EVA; REBA-I; PRE SLEEP; SLEEP; SLEEP; POST SLEEP
UP	FE-2 EXP20 KOPRA	PST EVA W/H2O METOX; BSA-I; PRE SLEEP; SLEEP; SLEEP; POST SLEEP
EXP20	FE-3 ROMANENKO	♣; DPC; PW; PRE SLEEP; SLEEP; POST SLEEP
EXP20	FE-4 THIRSK	PW; DPC; PW; PRE SLEEP; SLEEP; SLEEP; ⊕; BLD OPR
EXP20	FE-5 DE WINNE	PW; DPC; PW; PRE SLEEP; SLEEP; SLEEP; ⊕; BLD DRAW

DAY/NIGHT	
ORBIT	112; 113; 114; 115; 116; 117; 118; 119
SSRMS POS	MBS PDGF3 @ WS8
NOTES	♣TVIS HYG; ⊕POST SLEEP

STS-127 FD (08)

GMT Date 07/22 (203) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 006 | STS ATI

CDR POLANSKY | PLT HURLEY | MS2 PAYETTE | NOTES

12:00 13:00 14:00 15:00 16:00

11:00 12:00 13:00 14:00

15 104 105 106

BIAS - XLV - ZVV

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA 3 INHIBIT PAD (EVA, TIMELINES)

SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS) CHANGEOUT
Use CWC S/N 1054
Ref. MSG 055, item 5

EXERCISE

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EXERCISE

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS)
Perform EQUIP PREP and WATER TRANSFER HOSE PURGE
Ref. MSG 055, item 3

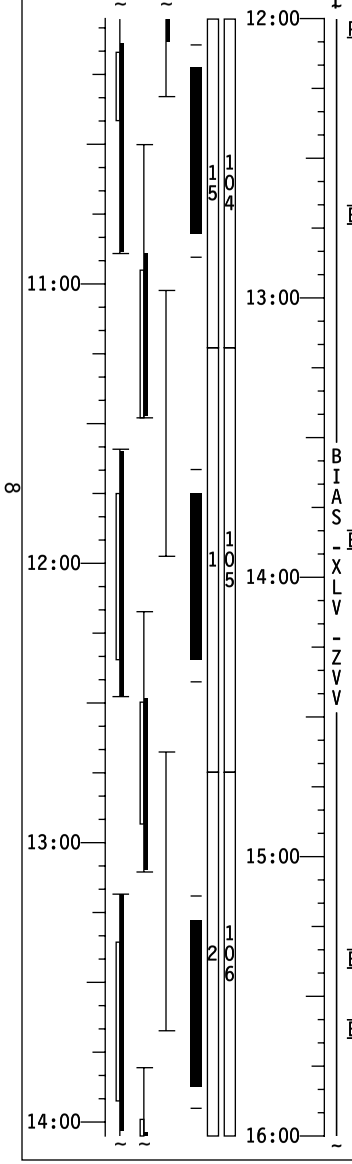
SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS)
Init Fill #1
Ref. MSG 057 & MSG 055, item 4

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

FD08 EZ ACTIVITES:
TEPC (ORB OPS, CREW SYS)
CHECK STATUS
√OCAC FILTER & MDDK DUCT SCREEN
HARD REBOOT ALL PGSCs EXCEPT:
STS-7(WLES),STS-6(RPOP2),
& OCA ROUTER.

STS-127 FD (08)

GMT Date 07/22 (203) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 006 | STS ATT



MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	SLEEP LOGBOOK (ORB OPS, SDBI) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
EVA SYS: 1.211 HYGIENE BREAK Start no earlier than 8:40 hrs from the end of: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE MCC-H performs Steps 1-4,16-20 & 23		EVA SYS: 1.211 HYGIENE BREAK Start no earlier than 8:40 hrs from the end of: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE MCC-H performs Steps 1-4,16-20 & 23	
	EVA SYS: 1.211 HYGIENE BREAK Steps 21-25 MCC-H performs Step 23		
EVA SYS: 1.216 EVA PREP	EVA SYS: 1.216 EVA PREP	EVA SYS: 1.216 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	

STS-127 FD (08)

GMT Date 07/22 (203) | W | TDRS E | Z | D/N | DORB | ORB | MET Day 006 | STS ATI

CDR POLANSKY | PLT HURLEY | MS2 PAYETTE | NOTES

16:00 — 17:00 — 18:00 — 19:00 — 20:00

15:00 — 16:00 — 17:00 — 18:00

2 3 4 5 | 106 107 108 109

BIAS -XLV -ZVV

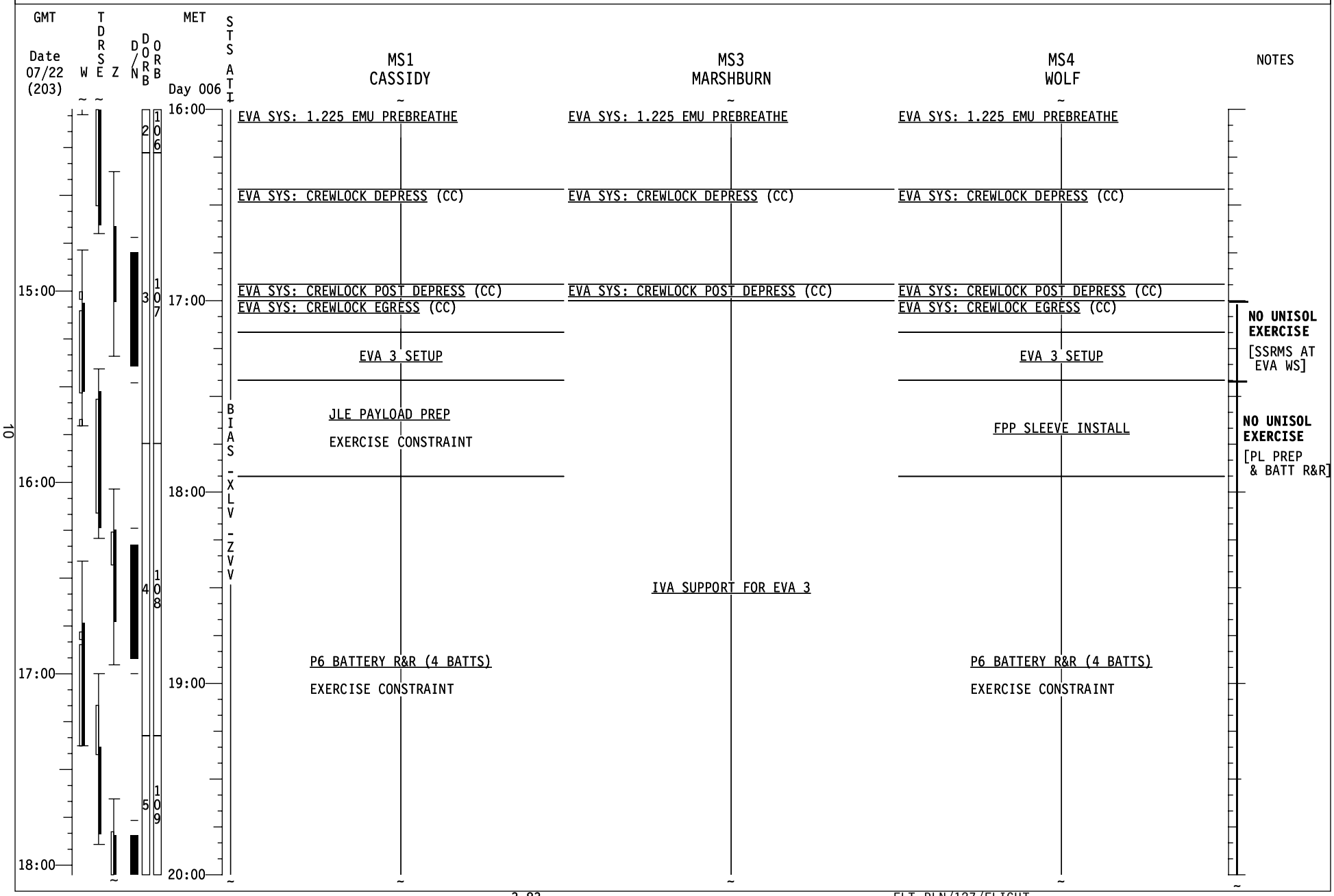
CDR POLANSKY:
- EXERCISE
- P/TV07 EVA (PHOTO/TV, SCENES) SETUP
- P/TV07 EVA (PHOTO/TV, SCENES) OPS

PLT HURLEY:
- IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
- ROBO: 5.101 P6 BATTERY R&R EVA 3 Steps 1-3
- ROBO: 5.101 P6 BATTERY R&R EVA 3 Steps 4-13

MS2 PAYETTE:
- SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) FILL TERM
- CWC TRANSFER Transfer 1 CWC to ISS
- ROBO: 5.101 P6 BATTERY R&R EVA 3 Steps 1-3
- ROBO: 5.101 P6 BATTERY R&R EVA 3 Steps 4-13

NOTES:
- **NO UNISOL EXERCISE** [SSRMS AT EVA WS]
- **NO UNISOL EXERCISE** [PL PREP & BATT R&R]

STS-127 FD (08)


GMT
Date 07/22 (203)
W
TDRSE
Z
D/N
DORB
ORB
MET
Day 006
STS ATT
MS1 CASSIDY
MS3 MARSHBURN
MS4 WOLF
NOTES
16:00
17:00
18:00
19:00
20:00
15:00
16:00
17:00
18:00
2
3
4
5
106
107
108
109
BIAS - XLV - ZVV
EVA SYS: 1.225 EMU PREBREATHE
EVA SYS: CREWLOCK DEPRESS (CC)
EVA SYS: CREWLOCK POST DEPRESS (CC)
EVA SYS: CREWLOCK EGRESS (CC)
EVA 3 SETUP
JLE PAYLOAD PREP
EXERCISE CONSTRAINT
P6 BATTERY R&R (4 BATTS)
EXERCISE CONSTRAINT
IVA SUPPORT FOR EVA 3
FPP SLEEVE INSTALL
NO UNISOL EXERCISE
[SSRMS AT EVA WS]
NO UNISOL EXERCISE
[PL PREP & BATT R&R]

STS-127 FD (08)

GMT Date 07/22 (203) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 006 | STS ATT

CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
P/TV07 EVA (PHOTO/TV, SCENES) OPS	ROBO: 5.101 P6 BATTERY R&R EVA 3 Steps 4-13	ROBO: 5.101 P6 BATTERY R&R EVA 3 Steps 4-13	NO UNISOL EXERCISE [PL PREP & BATT R&R]
N2 REPRESS USING PAYLOAD N2 VLVS [A]	[A] N2 REPRESS USING PAYLOAD N2 VLVS (ORB OPS, ECLS) Steps 3-7		
MEAL			
P/TV07 EVA (PHOTO/TV, SCENES) OPS			
	ROBO: 5.101 P6 BATTERY R&R EVA 3 Step 14-15	ROBO: 5.101 P6 BATTERY R&R EVA 3 Step 14-15	
N2 REPRESS USING PAYLOAD N2 VLVS [B] JOINT OPS: 3.103 NITROGEN TRANSFER TERMINATION Steps 3.2-5.1	FILTER CLEANING (IFM, SCHEDULED MAINTENANCE) Inspect filters and clean as necessary		
[B] N2 REPRESS USING PAYLOAD N2 VLVS (ORB OPS, ECLS) Steps 8-12		EXERCISE	

Time scale: 19:00, 20:00, 21:00, 22:00; Day 006: 20:00, 21:00, 22:00, 23:00, 00:00

Z: 5, 6, 7, 8; ORB: 109, 110, 111

BIAS - XLV - ZVV

11

STS-127 FD (08)

GMT Date 07/22 (203) | W | TDRS E | Z | D/N | DORB 5 6 7 8 | DORB 109 110 111 | MET Day 006 | STS ATT

MET: 20:00, 21:00, 22:00, 23:00, 00:00

STS ATT: BIAS -XLV -ZVV

MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
P6 BATTERY R&R (4 BATTS)	IVA SUPPORT FOR EVA 3	P6 BATTERY R&R (4 BATTS)	**NO UNISOL EXERCISE** [PL PREP & BATT R&R]
EXERCISE CONSTRAINT		EXERCISE CONSTRAINT	
EVA 3 CLEANUP AND INGRESS		EVA 3 CLEANUP AND INGRESS	
EVA SYS: PRE REPRESS (CC)	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 & METOX Steps 37 & 66 not req'd MCC will perform Steps 43 & 67 Ref: 127 EMU CTCC In Step 60, temp stow HL Batts for BSA Init	EVA SYS: 1.240 POST EVA With H2O & METOX Steps 37 & 66 not req'd MCC will perform Steps 43 & 67 Ref: 127 EMU CTCC In Step 60, temp stow HL Batts for BSA Init	EVA SYS: 1.240 POST EVA With H2O & METOX Steps 37 & 66 not req'd MCC will perform Steps 43 & 67 Ref: 127 EMU CTCC In Step 60, temp stow HL Batts for BSA Init	

STS-127 FD (08)

GMT Date 07/22 (203) | W | TDRSE | Z | D/N | DORB 8 9 10 | ORB 112 113 114 | MET Day 007 | STS ATI BIAS -XLV -ZVV

CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
		EXERCISE	
LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)	LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)	LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)	
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
√HUM SEP for H2O Accumulation			
NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)Private Medical Conference KU TDRW (01:17-01:42)			
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
	CREW WAKE 7/11:30		
SLEEP	SLEEP	SLEEP	

STS-127 FD (08)

GMT Date 07/22 (203) | W | TDRS E | Z | D/N | DORB 8 9 10 | ORB 112 113 114 | MET Day 007 | STS ATT

BIAS -XLV -ZVV

MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
EVA SYS: 1.240 POST EVA With H2O & METOX Steps 37 & 66 not req'd MCC will perform Steps 43 & 67 Ref: 127 EMU CTCC In Step 60, temp stow HL Batts for BSA Init	EVA SYS: 1.240 POST EVA With H2O & METOX Steps 37 & 66 not req'd MCC will perform Steps 43 & 67 Ref: 127 EMU CTCC In Step 60, temp stow HL Batts for BSA Init	EVA SYS: 1.240 POST EVA With H2O & METOX Steps 37 & 66 not req'd MCC will perform Steps 43 & 67 Ref: 127 EMU CTCC In Step 60, temp stow HL Batts for BSA Init	
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	CREW WAKE 7/11:30		
SLEEP	SLEEP	SLEEP	

MSG 056 - FD08 MISSION SUMMARY

Good Morning Endeavour!!!

PDRS especially wants to thank you for all your work yesterday, filling the JEM's belly full of JLE.

We are looking forward to EVA 3 today!

YOUR CURRENT ORBIT IS: 188 X 186 NM

NOTAMS:

NOTAMS – ONE ADDITION

EDW - EDW IN USE. EDT ELS DAY / VFR ONLY.
EDW - LAKEBED RWY 15/33 - GREEN. RWY 18L - UNUSABLE.
NOR - LAKEBED RUNWAYS GREEN.
FMH - RWY 05/23 CLOSED.
GUA - RWY 24R END LIGHTS OTS.
GUA - RWY 06R/24L CLOSED.
INN - CLOSED.
IKF - NOT USABLE. NO AGREEMENT.
BEN - NOT RECOMMENDED/NOT SUPPORTED.
KBO - RWY 14L/32R CLOSED.
ILM - CLOSED.

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 111 – 6/23:12 FEW 120 BKN 250 7 230/20P27
EDW22 ORB 126 – 7/22:01 SCT 150 BKN 250 7 220/15P20 (ORB 127 220/19P27)

OMS TANK FAIL CAPABILITY:

L OMS FAILS: NO
R OMS FAILS: NO

LEAKING OMS PRPLT BURN:

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

OMS QUANTITIES(%)

Subtract interconnect counter for current OMS quantities.

L OMS OX = 39.5 R OMS OX = 39.7
FU = 39.1 FU = 39.4

END OF PAGE 1 OF 2, MSG 056

DELTA V AVAILABLE:

OMS	409 FPS
ARCS (TOTAL ABOVE QTY1)	44 FPS
TOTAL IN THE AFT	453 FPS
ARCS (TOTAL ABOVE QTY2)	76 FPS
FRCS (ABOVE QTY 1)	29 FPS
AFT QTY 1	81 %
AFT QTY 2	43 %

SYSTEM #	FAILURE	IMPACT	WORK AROUND
OMS	LOME GN2 tank pressure decay of approximately 12 psi/day. A similar signature was also seen on STS-118, 123, & 126.	At the current leak rate, there is no impact to LOME capability. “L OMS TK P” message will annunciate when TK P < 1200 psi (~FD13). Multiple annunciations are expected with TK P bit-toggling.	To mitigate nuisance alarms a GMEM will be uplinked to lower the LOMS GN2 TK P2 FDA Limit from 1200 psi to 500 psi.

END OF PAGE 2 OF 2, MSG 056

MSG057 - H2O OPS CUE CARD

CWC FILLS

	CWC No.	Record S/N Used	Mineral Kit Ref: Kit Table	Ag Biocide Kit Ref: Kit Table	Sample Kit Ref: Kit Table	CWC Label	CWC Launch Location
☐	1		S/N 1002	S/N 1006	S/N 1001 (Note A)	Blue (Pot)	In pregathered M-02 bag S/N 1026 (Note D); Available Potable S/Ns: 1087 ☐ 1088 ☐ 1095 ☐ 1098 ☐
☐	2		S/N 1002	S/N 1006	S/N 1001 (Note A)	Blue (Pot)	
☐	3		S/N 1002	S/N 1006	S/N 1001 (Note A)	Blue (Pot)	
☐	4		S/N 1002	S/N 1006	S/N 1001 (Note A)	Blue (Pot)	
☐	5		Not Req'd	S/N 1006	Not Req'd	Green (Tech)	CWC 1051 in pregathered M-02 bag S/N 1026 CWCs 1021 & 1073 in LAB1S2 CWC 1072 in NOD1D2 Available Technical S/Ns: 1021 ☐ 1051 ☐ 1072 ☐ 1073 ☐
☐	6		Not Req'd	S/N 1006	Not Req'd	Green (Tech)	
☐	7		Not Req'd	S/N 1002	Not Req'd	Green (Tech)	
☐	8		Not Req'd	S/N 1002	Not Req'd	Green (Tech)	

Kit Table

Kit	S/N	Stowage Location	Undock Location
Mineralization Kit	1002	MF71O	MF71O
Ag Biocide Kit	1006	Pregathered M-02 Bag S/N 1026	MF71O
	1002	Pregathered M-02 Bag S/N 1026	Pregathered M-02 Bag S/N 1026
Sample/Purge Kit	1001	MF71O	MF71O

CWC Fill Notes:

A. Stow filled sample bags and purge bag (Water Transfer Hose purged only once during the flight) in MF71K.

B. Rough handling may cause leakage

C. Fill each CWC for 52 min or term CWC Fill on MCC call

D. Pregathered M-02 bag S/N 1026 originally located in NOD2O2. Some CWCs may still contain residual water (~ 10 lb/bag) and will be located outside of M-02 bag S/N 1026. Prior to filling, report if bag has a significant amount of residual water.

Pre-Fill Checklist:

- Disinfect CWC QD and Transfer Hose QD
  1☐ 2☐ 3☐ 4☐ 5☐ 6☐ 7☐ 8☐

Post-Fill Checklist:

- Take Sample, filling Sample Bag nearly full
  1☐ 2☐ 3☐ 4☐
- Check correct label is in CWC window
  1☐ 2☐ 3☐ 4☐ 5☐ 6☐ 7☐ 8☐
- Check correct decal on CWC end
  1☐ 2☐ 3☐ 4☐ 5☐ 6☐ 7☐ 8☐
- Check correct CWC S/N on end decal
  1☐ 2☐ 3☐ 4☐ 5☐ 6☐ 7☐ 8☐
- Report S/N to MCC
  1☐ 2☐ 3☐ 4☐ 5☐ 6☐ 7☐ 8☐
- Transfer CWC to NOD2O2
  1☐ 2☐ 3☐ 4☐ 5☐ 6☐ 7☐ 8☐
- Cap Transfer Hose QD between each fill

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PWR FILLS

	PWR No.	PWR S/N	Stowage Location	Actions
☐	1	1003	A/L1D1_A2	Dump, fill and return to A/L1D1_A2
☐	2	1032	A/L1D1_A2	Dump, fill and return to A/L1D1_A2
☐	3	1007	A/L1D1_B1	Dump, fill and return to A/L1D1_B1
☐	4	1023	A/L1D1_A1	Dump, fill and return to A/L1D1_A1

PWR Fill Notes: Do not detach PWR (EMU H2O Recharge Bag) QD restraint during PWR ops. PWRs will be dumped using the Supply Water Dump Line.

FINAL