

# STS-128/17A

## FD 13 Execute Package



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112	20 - 21	Cabin Stow Message
113	22	Return Locker Layout
114B	23	Entry Day Fluid Loading Prep
115	---	FD13 PAO EVENT SUMMARY CBS NEWS/ABC NEWS/CNN ( <i>JEDI Only</i> )

Approved by FAO:  
Terry Clancy

Last Updated: Sep 9 2009 12:31 PM GMT  
JEDI (Joint Execute package Development and Integration), v3.0

Comedy as true now as it was on STS-115:

Happy Birthday Rob!



Oh Ya, well I may be 27 but I'm still in my prime!

More Rob Navias comedy from the past inside

## FD05

### TOP 10 PHRASES ROB NAVIAS SHOULD INCORPORATE IN DAILY NASA TV COMMENTARY:

- (12) "...domiciliate the space station..."
- (11) "...a pelagic view of the planet..."
- (10) "...in a solar ascendancy ..."
- (9) "...sagaciously designed SSPTS..."
- (8) "...an appurtenance of apples..."
- (7) "...fervidly tergiversate the truss... "
- (6) "...quelled a quaternion nightmare..."
- (5) "...in a fit of disambiguation..."
- (4) "...a human amelioration..."
- (3) "...a cromulent performance..."
- (2) "... NASA's extraterrestrial pedagogue ..."

... and the #1 phrase Rob should incorporate in Daily NASA TV Commentary is...

- (1) "...with Nebraskan panache..."

### Rob Navias: Rock Star



### Rob Navias: Space Ranger



It's not the size of the Statue that matters,  
It's where the statue appears during a PAO event

**Flight Directors Annette Hasbrook and John Curry at the Gilruth post-shift.**

MSG 109A - FD13 FLIGHT PLAN REVISION

1 MSG INDEX

2 <u>MSG NO.</u>	<u>TITLE</u>
3 109	FD13 Flight Plan Revision
4 110	FD13 Mission Summary
5 111	RCS Hot Fire Deltas
6 112	Cabin Stow Message
7 113	Return Locker Layout
8 114	Entry Day Fluid Loading
9 115	FD13 PAO Event Summary CBS News/ABC News/CNN

- 10  
11
- 12 1. **Free Drift for Blood Draw** - PRCS firings are not allowed during the SDBI 1900 blood  
13 draws. Before the blood draws, in step 5 of the Interconnect Return, remain DAP: FREE  
14 to preclude PRCS firings. Return to ALT control as soon as possible after the blood  
15 draws are complete.  
16
  - 17 2. **Dump Equipment Pre-gather** – Pre-gather the following equipment for the CWC dumps  
18 that occur immediately following the Waste Dump:  
19 a) Condensate CWC S/N: 5085: temp stowed after condensate T/D  
20 b) ISS CWC-I S/N 1013: temp stowed on middeck near the ladder on FD 7  
21 c) Waste Water Dump (WWD) Filter: Break Out Box (BOB) Locker (MF28H)  
22 d) 8 ft Y-Y hose: temp stowed after Condensate T/D  
23
  - 24 3. **Waste Water Dump** – Perform a waste dump using SUPPLY/WASTE WATER DUMP  
25 (ORB OPS, ECLS) p 5-2. Perform steps E, G, and I. MCC will TMBU FDA in steps B  
26 and K.  
27  
28 Waste dump valve open time will be ~40 minutes. Dump the waste tank to 5%.  
29
  - 30 4. **CWC Dump** – Dump CWC S/N 5085 and CWC-I S/N 1013 using CWC OVERBOARD  
31 DUMP (ORB OPS, ECLS) p 5-36. Perform steps A, C, D, E, F, and G. MCC will TMBU  
32 in steps B and H.  
33 Waste dump valve open time for each CWC will be ~25 minutes.  
34  
35 Stow CWC s/n 5085 and CWC-I s/n 1013 in Bag G.  
36 Stow the WWD in a ziplock bag and return it to the BOB in MF28H.  
37 Stow the 8 ft Y-Y hose in a separate ziplock bag and return it to the CHCK.  
38
  - 39 5. **Fluid Loading Prep** - Fluid loading water for one Entry opportunity should be  
40 pulled today (ref MSG 114). Fluid loading for a one orbit waveoff is not required  
41 to be pulled until waveoff is declared. Pulling water for fluid loading on EOM-1  
42 will help maximize Supply Water quantities to support maximum deorbit landing  
43 opportunities.  
44  
45  
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MSG 109A - FD13 FLIGHT PLAN REVISION

- 1 6. **Last Outlook Mail Sync** - Prior to Ku Stow this afternoon, we will downlink your Outlook  
2 Personal Folders so that you may have them when you return to Houston. Please move  
3 any messages that you would like to keep from your INBOX, SENT ITEMS and  
4 UPLINKED BY CAPCOM folders to your Personal Folder before MET 11/19:45. We will  
5 also perform one final mail synch at that time to deliver any last-minute messages  
6 you have to send. We will not lock you out of your e-mail during this time so that you  
7 can still read your e-mail, but anything you change or write will be lost.  
8
- 9 7. **WLES Stow** - The WLES sensors have been configured for entry and you are GO for  
10 WLES Teardown at any time.  
11
- 12 8. Replace pages 3-138 through 3-147.  
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END OF PAGE 2 OF 15, MSG 109A

GMT 09/09/09 (252) 011/00 MET Day\_011

FD12	PRE SLEEP	M D PRE SLEEP	M - R L PRE SLEEP	PS N Z E P M C EA/G	04	05	06	07	08	09	10	11	12	13	14	15	16
CDR STURCKOW	PRE SLEEP	M D PRE SLEEP	M - R L PRE SLEEP	PS N Z E P M C EA/G	04	05	06	07	08	09	10	11	12	13	14	15	16
PLT FORD	OB CT AN BE SR ST SH	WI PS WT AN RL AE	PS WT RL AE SR	PRE SLEEP	04	05	06	07	08	09	10	11	12	13	14	15	16
MS1 FORRESTER	OB RP BE MW SR ST SH	WI PS WT AN RL AE	PS WT RL AE SR	PRE SLEEP	04	05	06	07	08	09	10	11	12	13	14	15	16
MS2 HERNANDEZ	OB RP BE MW SR ST SH	WI PS WT AN RL AE	PS WT RL AE SR	PRE SLEEP	04	05	06	07	08	09	10	11	12	13	14	15	16
MS3 OLIVAS	PRE SLEEP	P O L P Y S B K	PRE SLEEP	PRE SLEEP	04	05	06	07	08	09	10	11	12	13	14	15	16
MS4 FUGLESANG	L D R I D N L K	PRE SLEEP	PRE SLEEP	PRE SLEEP	04	05	06	07	08	09	10	11	12	13	14	15	16
MS5 KOPRA	PRE SLEEP	PRE SLEEP	PRE SLEEP	PRE SLEEP	04	05	06	07	08	09	10	11	12	13	14	15	16
DAY/NIGHT ORBIT	175	176	177	178	179	180	181	182									
TDRS	W	E	Z														
ATTITUDE	+YVV																
NOTES																	

\*DOWNLINK RATE RECONFIG

-ZLV -XV

09/09/09 08:01:02

REPLANNED

GMT 09/09/09 (252) 16 17 18 19 20 21 22 23 23 02 03 04  
 MET Day\_011 12 13 14 15 16 17 18 19 20 21 22 23 23 02 03 04 012/00

FD13 CDR STURCKOW	POST SLEEP	BLOOD COLL OPRP W	FCS C/O	RFI DSRA HEP	PE AV OEN T	D/O BRIEF	CABIN STOW	EXERCISE	MEAL	SB Δ IIG	EXERCISE	L-1 COMM	CABIN STOW	C P L-1 COMM	CM-IP NNZLS CVL O TRVT
PLT FORD	POST SLEEP	CABIN STOW	FCS C/O	RFI DSRA HEP	PE AV OEN T	D/O BRIEF	EXERCISE	MEAL	SB Δ IIG	EXERCISE	MEAL	WC	CC	CT OEN DM	PO IP LS O T
MS1 FORRESTER	POST SLEEP	FILTER CLEANING	CABIN STOW	RFI DSRA HEP	PE AV OEN T	D/O BRIEF	CABIN STOW	MEAL	EGWI OAN	EXERCISE	MEAL	WC	CC	CT OEN DM	GU AS CT RO #W
MS2 HERNANDEZ	POST SLEEP	POST SLEEP	FCS C/O	RFI DSRA HEP	PE AV OEN T	D/O BRIEF	CABIN STOW	MEAL	EGWI OAN	EXERCISE	MEAL	WC	CC	CT OEN DM	GU AS CT RO #W
MS3 OLIVAS	POST SLEEP	EXERCISE	CABIN STOW	RFI DSRA HEP	PE AV OEN T	D/O BRIEF	CABIN STOW	MEAL	EGWI OAN	EXERCISE	MEAL	WC	CC	CT OEN DM	GU AS CT RO #W
MS4 FUGLESANG	POST SLEEP	EXERCISE	CABIN STOW	RFI DSRA HEP	PE AV OEN T	D/O BRIEF	CABIN STOW	MEAL	EGWI OAN	EXERCISE	MEAL	WC	CC	CT OEN DM	GU AS CT RO #W
MS5 KOPRA	POST SLEEP	EXERCISE	EXERCISE	RFI DSRA HEP	PE AV OEN T	D/O BRIEF	CABIN STOW	MEAL	EGWI OAN	EXERCISE	MEAL	WC	CC	CT OEN DM	GU AS CT RO #W
DAY/NIGHT ORBIT	182	183	184	185	186	187	188	189	190						
TDRS W E Z															
GND															
ATTITUDE	#ACT	-ZLV -XVV	*RETURN &DOWNLINK RATE	FCS	OMS	-ZLV -XVV	*DOWNLINK RATE RECONFIG								
NOTES															

S T S 1 2 8

REPLANNED

09/09/09 08:01:02

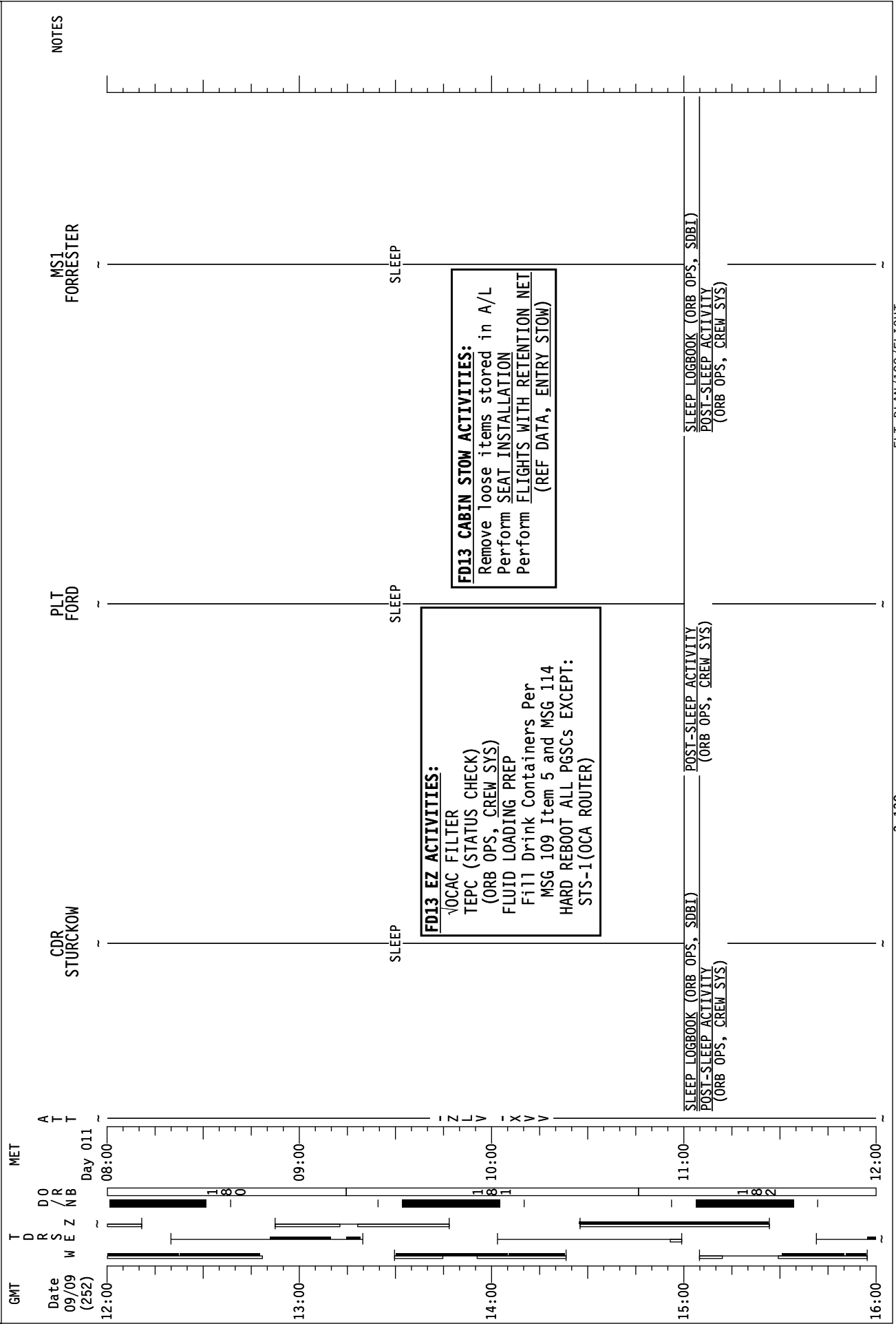
GMT 09/10/09 (253) 04 05 06 07 08 09 10 11 12 13 14 15 16  
 MET Day\_012 012/00 01 02 03 04 05 06 07 08 09 10 11 12

CDR STURCKOW	PILOT OPS	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP	POST SLEEP	PMC A/G
PLT FORD	PILOT OPS	PRE SLEEP			SLEEP	POST SLEEP	
MS1 FORRESTER		PRE SLEEP			SLEEP	POST SLEEP	
MS2 HERNANDEZ	PILOT OPS	PRE SLEEP			SLEEP	POST SLEEP	
MS3 OLIVAS		PRE SLEEP			SLEEP	POST SLEEP	
MS4 FUGLESANG	PRE SLEEP	PRE SLEEP			SLEEP	POST SLEEP	
MS5 KOPRA		PRE SLEEP			SLEEP	POST SLEEP	
DAY/NIGHT ORBIT	190	191	192	193	194	195	196
TDRS	W	E	Z				
GND							
ATTITUDE							
NOTES	*COOLING CNFG						

FLT PLAN/128/FLIGHT

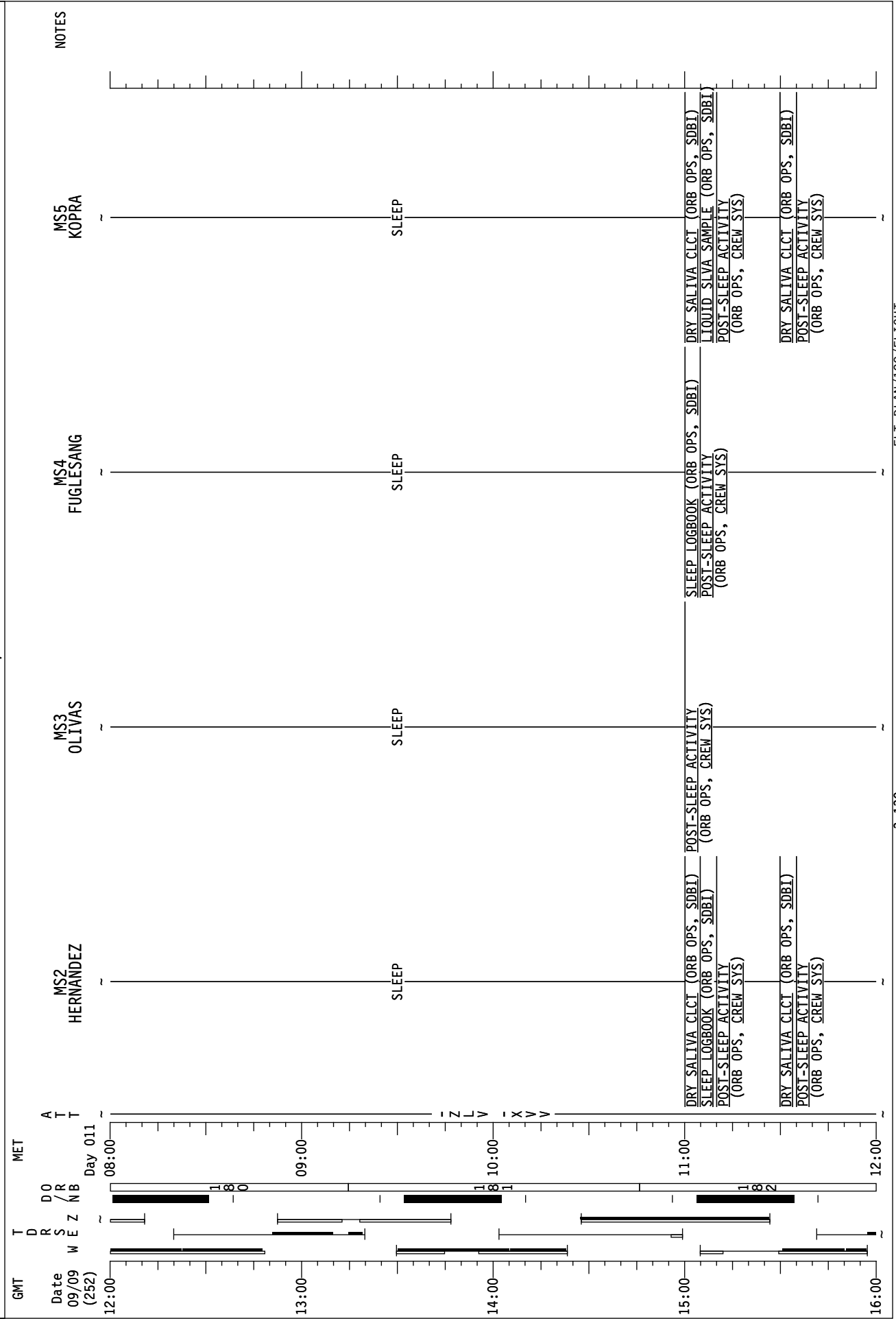
2-47

STS-128/17A FD13



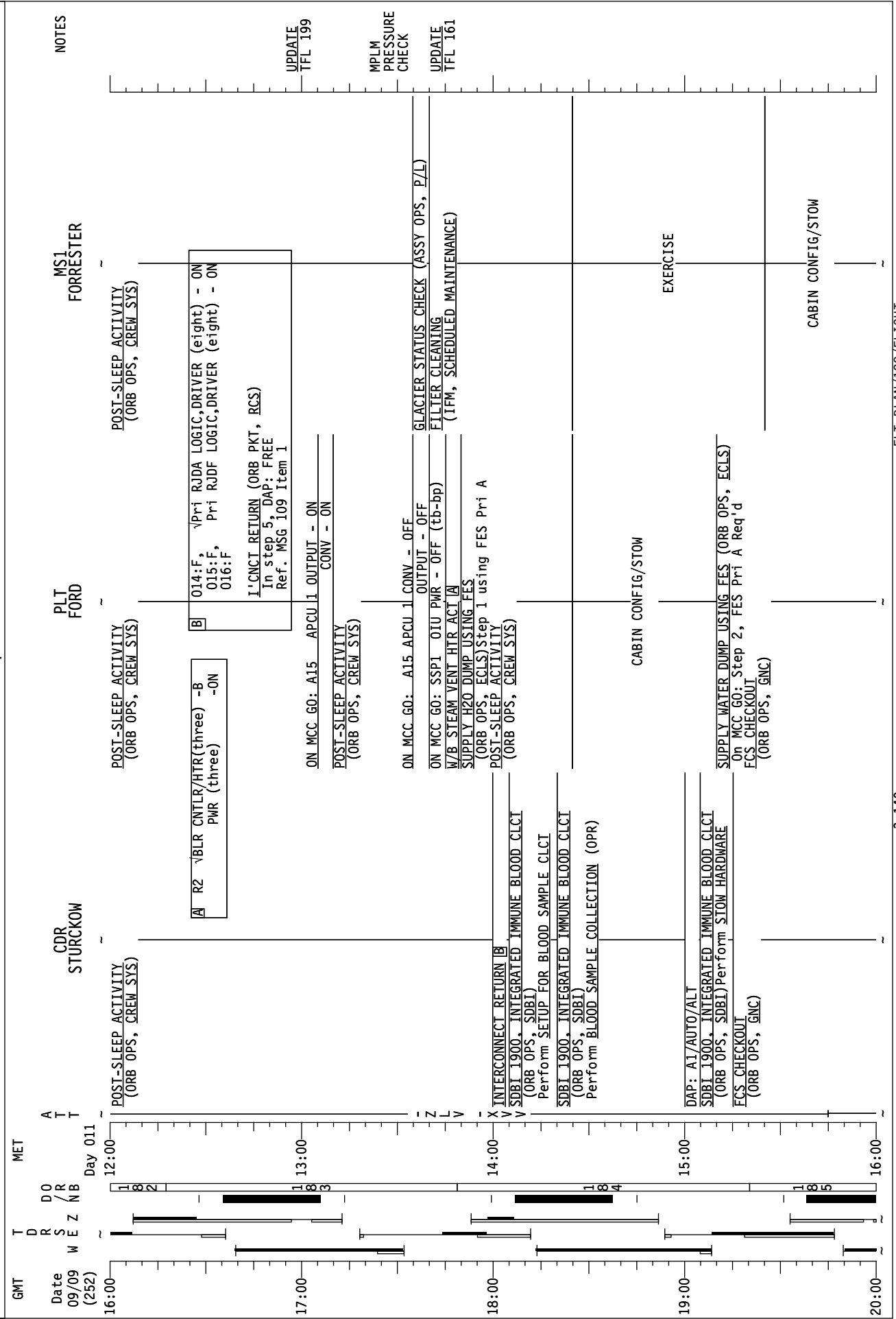


STS-128/17A FD13

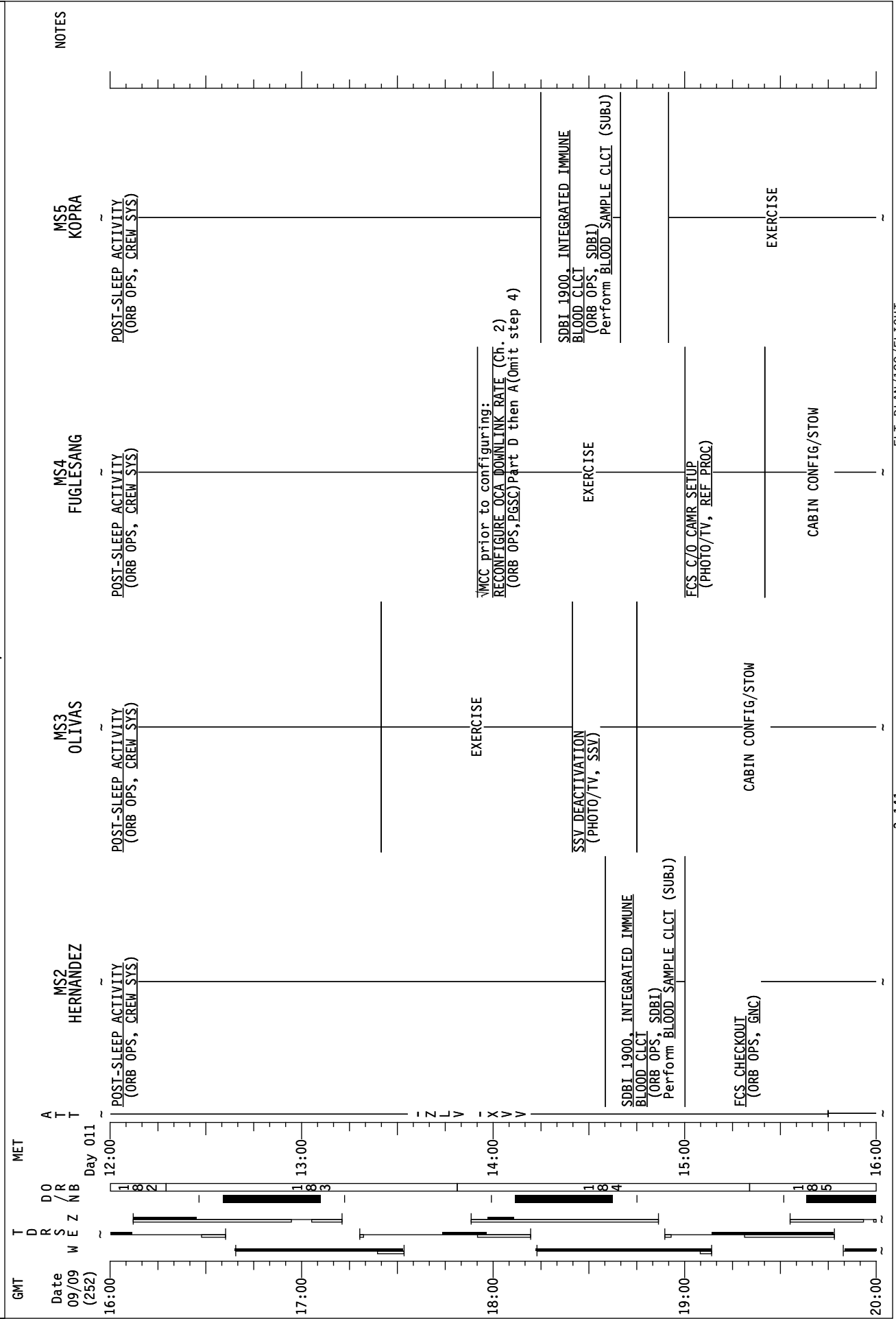


09/09/09 08:06:24

STS-128/17A FD13



STS-128/17A FD13



STS-128/17A FD13

GMT	Date 09/09 (252)	T D R S W E Z	Day 011	CDR STURCKOW	PLT FORD	MS1 FORRESTER	NOTES
20:00							
20:00				FCS CHECKOUT (ORB OPS, GNC)			
20:00				RCS HOT FIRE TEST (ORB OPS, RCS) Ref. MSG 111			
20:00				DAP: A1/AUTO/ALT			
20:00							CABIN CONFIG/STOW
21:00				PUBLIC AFFAIRS EVENT KU AVAIL: TDRE (16:55-17:22)			PUBLIC AFFAIRS EVENT KU AVAIL: TDRE (16:55-17:22)
21:00				DEORBIT BRIEFING			DEORBIT BRIEFING
21:00				CABIN CONFIG/STOW			
22:00				IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)			
22:00				LANDING-1 COMM C/O (ORB OPS, COMM/INST) MLA AOS 18:29-18:34			
22:00				L1 FLASH EVAP CNTLR PRI A(B)-OFF			
22:00							CABIN CONFIG/STOW
22:00				EXERCISE			
23:00				MEAL			MEAL
23:00				MEAL			
23:00				MEAL			
23:00				ON-ORBIT OMS BURN (ORB OPS, OMS) [C]			ON-ORBIT OMS BURN (ORB OPS, OMS) [C]
23:00							UPDATE ORBITAL MNVR PAD

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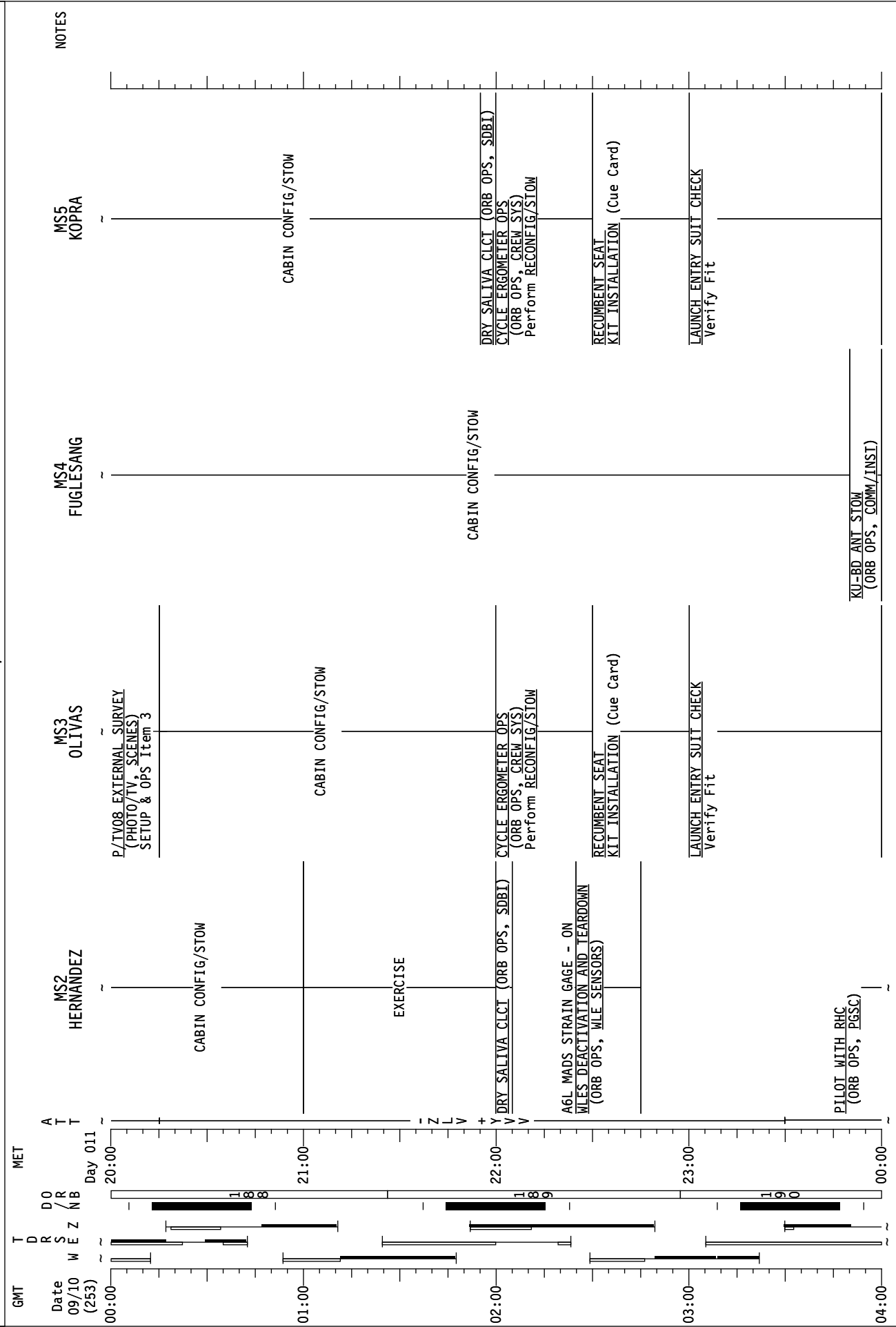
GMT	Date 09/09 (252)	T D R S W E Z	DO /R NB	MET Day 011	A T T	MS2 HERNANDEZ	MS3 OLIVAS	MS4 FUGLESANG	MS5 KOPRA	NOTES
20:00						FCS CHECKOUT (ORB OPS, GNC)	CABIN CONFIG/STOW			
20:00			1			RCS HOT FIRE TEST (ORB OPS, RCS) Ref. MSG 111	ANALOG (SD) CC REC.DNLK (PHOTO/TV, CANON G1)	CABIN CONFIG/STOW		
21:00			8			PUBLIC AFFAIRS EVENT KU AVAIL: TDRE (16:55-17:22)	PUBLIC AFFAIRS EVENT KU AVAIL: TDRE (16:55-17:22)	PUBLIC AFFAIRS EVENT KU AVAIL: TDRE (16:55-17:22)		
21:00			5			DEORBIT BRIEFING	DEORBIT BRIEFING	DEORBIT BRIEFING		
21:00			1			DEORBIT BRIEFING	DEORBIT BRIEFING	DEORBIT BRIEFING		
21:00			8			CABIN CONFIG/STOW	ENTRY VIDEO SETUP (PHOTO/TV, MINI-CAM)	RECONFIGURE_OCA_DOWNLINK_RATE (PL_MAX) (ORB OPS, FGSC) Part C (omit step 4)		
21:00			3			CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW		
21:00			6			DEORBIT BRIEFING	DEORBIT BRIEFING	DEORBIT BRIEFING		
22:00			1			DRY SALIVA CLCI (ORB OPS, SDBI)	DRY SALIVA CLCI (ORB OPS, SDBI)	DRY SALIVA CLCI (ORB OPS, SDBI)		
22:00			8			MEAL	MEAL	MEAL		
22:00			3			CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW		
22:00			6			CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW		
23:00			1			MEAL	MEAL	MEAL		
23:00			8			CABIN CONFIG/STOW	P/TVO8_EXTERNAL_SURVEY (PHOTO/TV, SCENES) SETUP & OPS Item 3	CABIN CONFIG/STOW		
23:00			7			CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW		
00:00			1			CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW		

09/09/09 08:06:24

STS-128/17A FD13

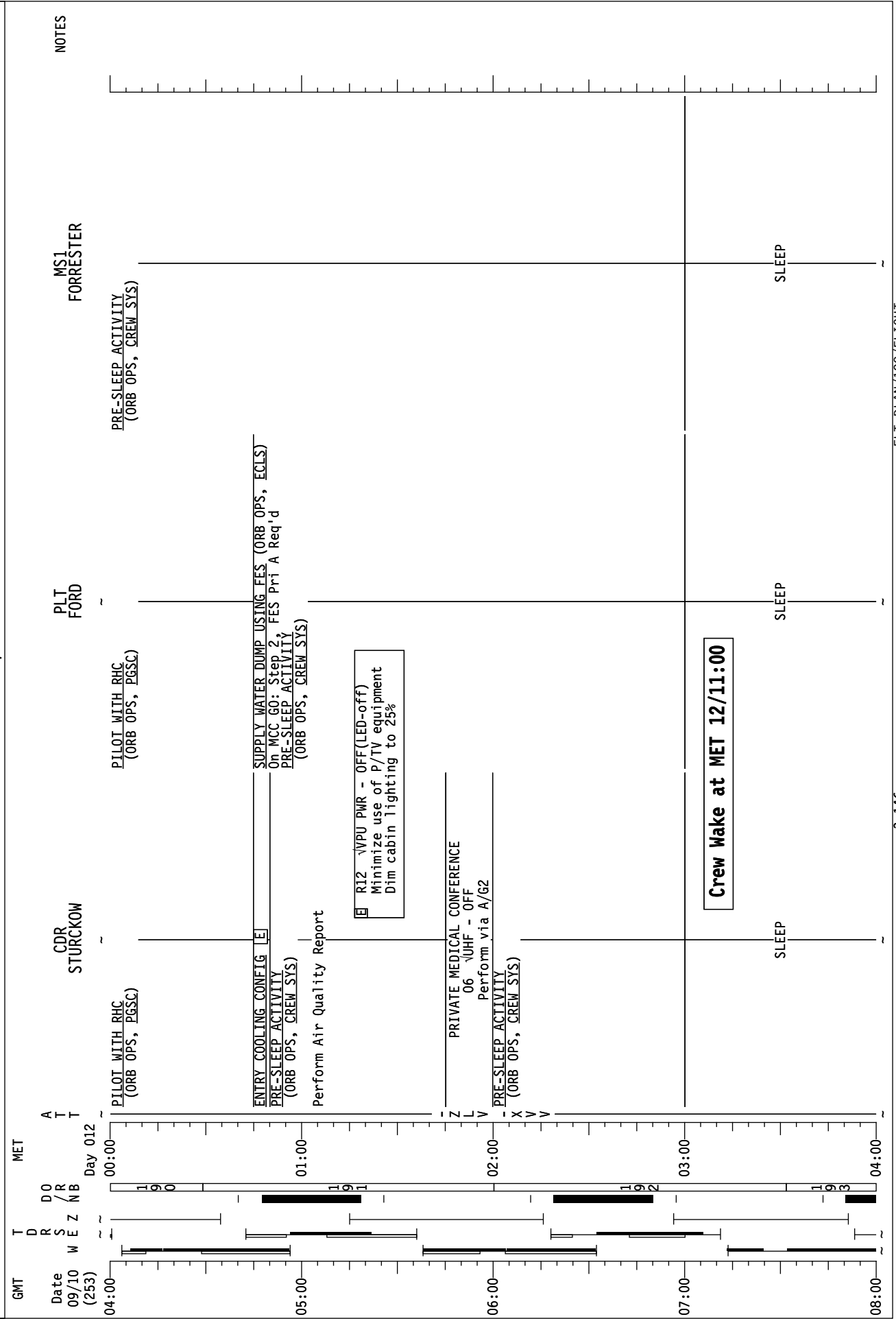
GMT	Date 09/10 (253)	Time 00:00	MET Day 011	CDR STURCKOW	PLT FORD	MS1 FORRESTER	NOTES
		00:00	20:00	ON-ORBIT OMS BURN (ORB OPS, OMS)	ON-ORBIT OMS BURN (ORB OPS, OMS)		UPDATE ORBITAL MNVN PAD
		00:00	20:00	MNVN (TRK) -ZLV +YVV (DUMP) TG-2 BV-3 OM=270 A1/AUTO/ALT Init TRK		GATHER DUMP EQUIPMENT Ref. MSG 109 Item 2	
		00:00	20:00		SUPPLY H2O DUMP USING FES (ORB OPS, ECLS) Step 1 using FES Pri A	SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Waste Dump Ref. MSG 109 Item 3	UPDATE H2O WASTE DUMP QTY
		01:00	21:00	EXERCISE	CABIN CONFIG/STOW		
		02:00	22:00	LANDING-1 COMM C/O (ORB OPS, COMM/INST) DRP AOS 21:32-21:40		SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Waste Dump, Ref. MSG 109 Item 3 CMC OVERBOARD DUMP (ORB OPS, ECLS) Init Condensate Dump, Ref. MSG 109 Item 4	
		02:00	22:00	COMM STRING I C/O (PART B) (ORB OPS, COMM/INST)			
		02:00	22:00	RCS/OMS POD HTR RECONFIG [D]			
		02:00	22:00	[D] A14 RCS/OMS HTR L POD - B OFF - A AUTO R POD - B OFF - A AUTO			
		03:00	23:00	CABIN CONFIG/STOW		CMC OVERBOARD DUMP (ORB OPS, ECLS) Term Condensate Dump, Ref. MSG 109 Item 4 CMC OVERBOARD DUMP (ORB OPS, ECLS) Init CMC-I Dump, Ref. MSG 109 Item 4	
		04:00	00:00	T/CNCT: R OMS TO RCS (ORB PKT, RCS) MNVN (TRK) -ZLV -XVV TG-2 BV=3 OM=0 A1/AUTO/ALT, Init TRK When MNVN complete, select DAP A6 PILOT WITH RHC (ORB OPS, PGSC)		CMC OVERBOARD DUMP (ORB OPS, ECLS) Term CMC-I Dump, Ref. MSG 109 Item 4	
		04:00	00:00	PILOT WITH RHC (ORB OPS, PGSC)		GLACIER STATUS CHECK (ASSY OPS, P/L) KI-BD ANT STOW (ORB OPS, COMM/INST)	

STS-128/17A FD13



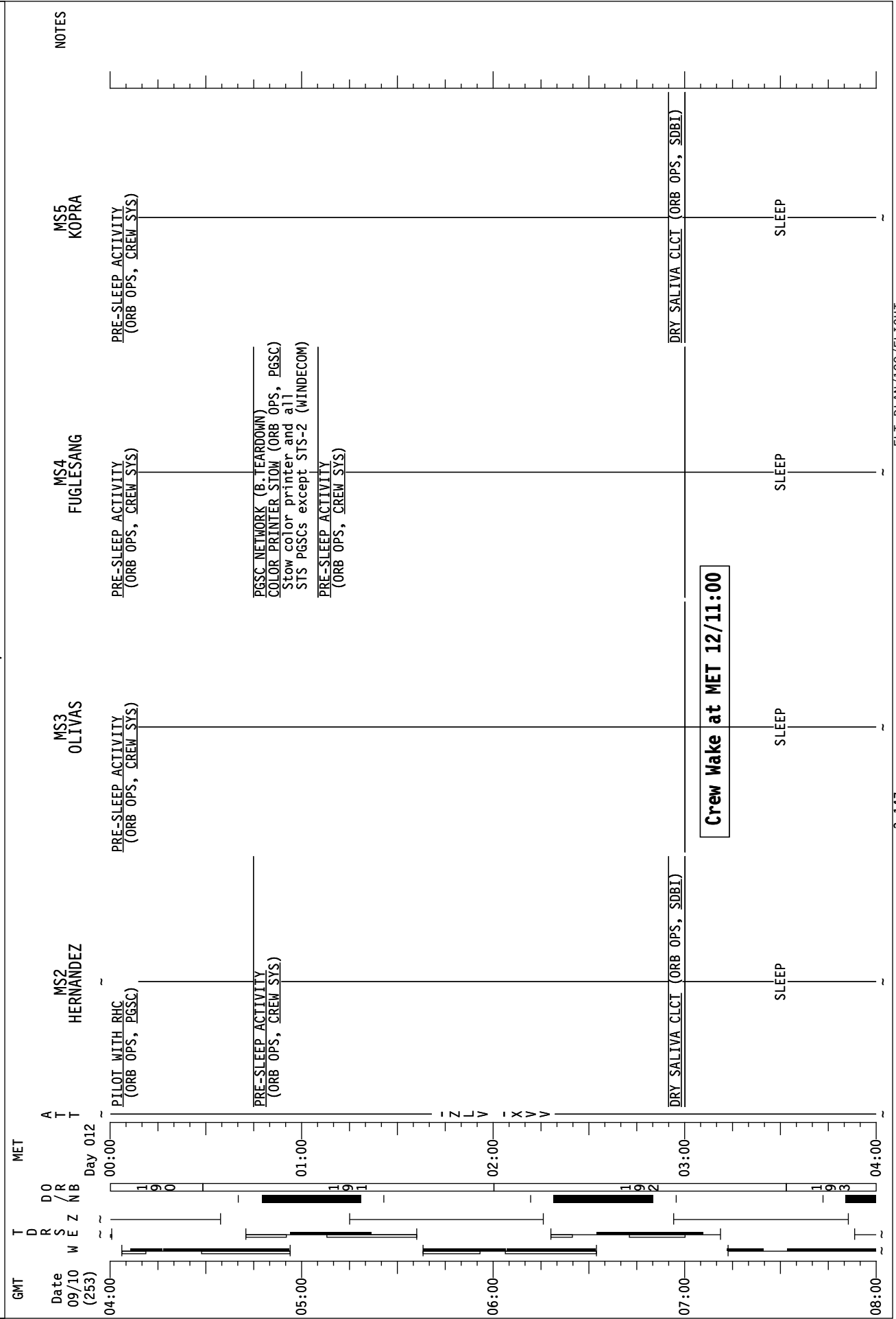
09/09/09 08:06:24

STS-128/17A FD13





STS-128/17A FD13



MSG 110 - FD13 MISSION SUMMARY

1 Good Morning Discovery!!!!

2  
3 Congratulations on a fabulously, fantastic (and fun) mission!!! Be sure to take some time  
4 today to look out the shuttle windows and reflect on what a great adventure you have had!

5  
6 Have a great "prepare for entry" day!!!!

7  
8  
9  
10 YOUR CURRENT ORBIT IS: 192 X 180 NM

11  
12 **NOTAMS: THREE CHANGES (DELETED MRN & AMB. ADDED YHZ)**

13  
14 EDW - EDW IN USE. EDT DAY ELS ONLY.  
15 EDW - LAKEBED RWY 15/33 GREEN - ELS ONLY. RWY 18L - UNUSABLE.  
16 NOR - LAKEBED RUNWAYS GREEN.  
17 FMH - RWY 32 SEQUENCED FLASHING LIGHTS OTS.  
18 YJT - TACAN YJT78 OTS.  
19 YHZ - AD LTS OUT OF SERVICE 1100-2100Z DAILY.  
20 **YHZ - RWY 05/23 CLOSED 1100-2100Z DAILY.**  
21 LAJ - TACAN LAJ45 OTS.  
22 GUA - RWY 24R END LIGHTS OTS.  
23 IKF - NOT USABLE. NO AGREEMENT.  
24 BEN - NOT RECOMMENDED/NOT SUPPORTED.

25  
26  
27 **NEXT 2 PLS OPPORTUNITIES:**

28  
29 EDW22 ORB 188 – 11/20:45 SCT250 7 210/08P13  
30 EDW22 ORB 203 – 12/19:34 FEW100 SCT250 7 230/13P19

31  
32 **OMS TANK FAIL CAPABILITY:**

33  
34 L OMS FAILS: NO  
35 R OMS FAILS: NO

36  
37 **LEAKING OMS PRPLT BURN:**

38  
39 L OMS LEAK: ALWAYS BURN RETROGRADE  
40 R OMS LEAK: ALWAYS BURN RETROGRADE

41  
42 **OMS QUANTITIES(%)**

43  
44 L OMS OX = 31.5 R OMS OX = 31.5  
45 FU = 30.9 FU = 31.5

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END OF PAGE 1 OF 2, MSG 110

MSG 110 - FD13 MISSION SUMMARY

1 DELTA V AVAILABLE:

2

3 OMS 308 FPS

4 ARCS (TOTAL ABOVE QTY1) 14 FPS

5

6 TOTAL IN THE AFT 322 FPS

7

8 ARCS (TOTAL ABOVE QTY2) 44 FPS

9 FRCS (ABOVE QTY 1) 23 FPS

10

11 AFT QTY 1 79 %

12 AFT QTY 2 41 %

13

14

15

16

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

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END OF PAGE 2 OF 2, MSG 110

MSG 111A - RCS HOT FIRE DELTAS

**RCS HOT FIRE TEST**

NOTE

If RMS not cradled, verify RMS not in jet impingement zone (√MCC if desired)

1. CONFIGURE FOR JET TEST

DAP: A1/INRTL/PRI

2. PERFORM RCS JET TEST

Wait 3 sec between pulses  
Monitor CRT for JET FAIL msgs  
Monitor ADI rates to verify jet on or jet fail

NOTE

**RCS**

If failed RCS JET detected, wait 30 sec before next pulse, deselect any failed RCS JET not auto deselected, complete TEST, then go to MAL, RCS, 10.1a (MAL, RCS)

O14, Pri RJD LOGIC,DRIVER (sixteen) – ON  
O15, √cb MNA,B DDU L (two) – cl  
O16

DAP TRANS: PULSE/PULSE/PULSE  
DAP: A/FREE/PRI  
F6 ADI RATE – MED  
F6/F8 FLT CNTLR PWR – ON

GNC 23 RCS

CRT RCS FWD – ITEM 1 EXEC (\*)  
MANF VLVS STAT OVRD  
√1 OP – ITEM 40  
√2 OP – ITEM 41  
3 CL – ITEM 42 EXEC  
4 CL – ITEM 43 EXEC  
JET DES F2U – ITEM 21 EXEC (\*)

Cont next page

10-2

ORB OPS/ALL/GEN M

MSG 111A - RCS HOT FIRE DELTAS

1 Perform following pulse sequence twice:  
2 THC: +Z, 1 PULSE (fires jets F3U,L4U,R4U)  
3 -Z, 1 PULSE (fires jets F3D,F4D,L4D,R4D)  
4 +Y, 1 PULSE (fires jets F3L,L4L)  
5 -Y, 1 PULSE (fires jets F4R,R4R)  
6

7 | DAP: A/INRTL/PRI  
8 F6/F8 FLT CNTLR PWR – OFF

9  
10  
11 3. RECONFIGURE JET SELECT

12 CRT √RCS L, ITEM 2 – (\*)  
13 MANF VLVS STAT OVRD  
14 1 OP – ITEM 40 EXEC  
15 2 OP – ITEM 41 EXEC  
16 3 OP – ITEM 42 EXEC  
17 √4 OP – ITEM 43

18  
19 RCS R – ITEM 3 EXEC (\*)  
20 MANF VLVS STAT OVRD  
21 1 OP – ITEM 40 EXEC  
22 2 OP – ITEM 41 EXEC  
23 3 OP – ITEM 42 EXEC  
24 √4 OP – ITEM 43

25  
26 RCS F – ITEM 1 EXEC (\*)  
27 MANF VLVS STAT OVRD  
28 1 OP – ITEM 40 EXEC  
29 2 OP – ITEM 41 EXEC  
30 √3 OP – ITEM 42  
31 √4 OP – ITEM 43  
32

33 4. CONFIG FOR VERN MANIFOLD VLV TEST  
34 | R14:C cb MNC MANF ISOL L5,R5 ENA (two) – op  
35

36 5. PERFORM TEST  
37

NOTE

If any vernier manifold closes, ignore DAP RECONFIG msg, reopen affected manifold, complete TEST, and notify MCC

38  
39 | O7 L,R RCS MANF ISOL 5 (two) – CL (tb-OP)  
40

41 6. CLEANUP  
42 | R14:C cb MNC MANF ISOL L5,R5 ENA (two) – cl  
43 O14,O15, Pri RJD LOGIC,DRIVER (sixteen) – as reqd  
44 O16 √cb MNA,B DDU L (two) – as reqd  
45 Reconfig to FLIGHT PLAN DAP  
46  
47  
48  
49

50 10-5 ORB OPS/ALL/GEN M  
51  
52

END OF PAGE 2 OF 2, MSG 111A

MSG 112 - CABIN STOW MESSAGE

1 Good morning STS-128 crew. Below are a few stowage notes for cabin stow.

2  
3 **Reminders:** MF28E protect the G1 camcorder with soft goods.  
4 MF14K stow actiwatches and logbooks here.

5  
6 **Bags (A, D and I) uplinked in FD 07 Execute Package, MSG 052 Pages 1-4 have not**  
7 **changed configuration.**

8  
9 **Bag C is empty- Configure the cushion walls flat prior to securing bag straps for**  
10 **return.**

11  
12 **All of the 5-MLE bags return in the same location with exception of bags C & D swap**  
13 **locations for return (reference figure).**

14  
15 - The STS-128 Middeck Stowage Team

16  
17 **MD Floor**

18 **Port 1 (Bag A)** - MSG 052

19  
20 **Port 2 (Bag B)** - Label KTO ziplock (TOX) "Human Waste". Lay cushion walls of bag flat  
21 around the KTO, center between the FWD or AFT (your preference) of the bag straps when  
22 securing bags A and B for return.

23  
24 **STBD 1 (Bag D)** - MSG 052. The addition of EMU servicing kit to this bag is fine.

25  
26 **STBD 2 (Bag C)** - Empty for return

27  
28 **MD Ceiling**

29 **Port 1 (Bag E)** - Reference the bag picture decal for return configuration.

30  
31 **Port 2 (Bag F)** - Center the returning crew escape equipment. The return configuration is  
32 similar to launch (reference bag decal). **NOTE: Protect the returning harness with**  
33 **cushion.**

34  
35 **STBD 1 (Bag G)** - Lay cushion walls of 5-MLE bag flat and surround CWC-I (Qty 1), CWC  
36 (Qty 1), & HCTB SSP+1 Day Food. The HCTB of SSP +1 day food can be relocated to  
37 MF14G to be readily available for consumption if needed.

38  
39 **STBD 2 (Bag H)** - Bag is empty with exception of IELK foam.

40  
41 **External Airlock Floor**

42  
43 **Ext A/L Floor (Bag I)** - MSG 052.

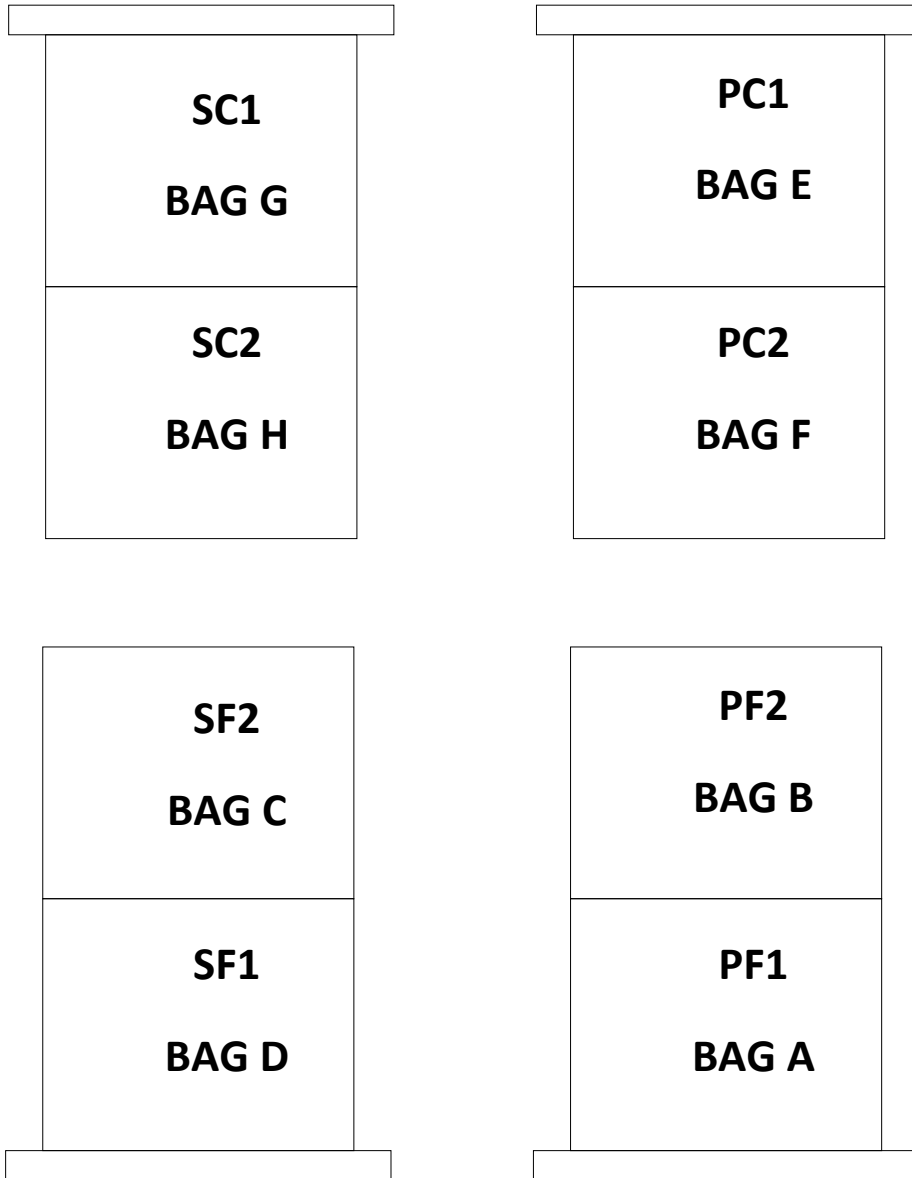
44  
45  
46  
END OF PAGE 1 OF 2, MSG 112

MSG 112 - CABIN STOW MESSAGE

1 **5-MLE BAG return configuration-**

2

3 NOTE: The FWD end of the 5-MLE bag is the end with the picture decal on the lid.



4

5

6

7

8

9

10

11

DITCH VIEW LOOKING AFT

END OF PAGE 2 OF 2, MSG 112

# DESCENT MODULAR LOCKER LAYOUT

CDR	FREDERICK W. STURCKOW
PLT	KEVIN A. FORD
M/S #1	PATRICK G. FORRESTER
M/S #2	JOSE M. HERNANDEZ
M/S #3	JOHN D. "DANNY" OLIVAS
M/S #4	CHRISTER FUGLESANG
M/S #5	(UP) NICOLE STOTT
M/S #5	(DN) #914 TIMOTHY KOPRA

1622 -308 PANTRY FOOD	MF57A PANTRY FOOD UTENSILS	1622 -308 PANTRY FOOD
-----------------------------	----------------------------------	-----------------------------

MF43C	MF57C H2O SMPL KIT (14) #614 MICRO SMPL (6) #907 CWC WATER SMPL (2)	MF71C
MF43E	MF57E	MF71E 2767 -304
MF43G #601 BUZZ LIGHTYEAR	MF57G	MF71G # 604 EAR PLUGS
MF43H	MF57H	MF71H
MF43K CREWMEMBER FEET	MF57K #542 WATER SAMPLES/ FMK CTB (1540-301)	MF71K 1405 -301
MF43M	MF57M	MF71M
MF43O #610 GSC (1) #616 PCMCIA CARD POUCH #617 SCOPE PRESS PROBE #618 M3P/4M/5M/6M/7M/8M/9M/10M/11M/12M/13M/14M/15M/16M/17M/18M/19M/20M/21M/22M/23M/24M/25M/26M/27M/28M/29M/30M/31M/32M/33M/34M/35M/36M/37M/38M/39M/40M/41M/42M/43M/44M/45M/46M/47M/48M/49M/50M/51M/52M/53M/54M/55M/56M/57M/58M/59M/60M/61M/62M/63M/64M/65M/66M/67M/68M/69M/70M/71M/72M/73M/74M/75M/76M/77M/78M/79M/80M/81M/82M/83M/84M/85M/86M/87M/88M/89M/90M/91M/92M/93M/94M/95M/96M/97M/98M/99M/100M	MF57O	MF71O

**MIDDECK FORWARD**

MF14E	MF28E #714 ISS LOCKER #910 G1 CAMORDER 538 HCTB	MA9D/F	MA16D 1411 -301 #608 - #609 GSC (4) #611 HIGH RATE DOS #612 INTEGRATED IMMUNE SALIVA #618 VELOCICALC #911 OGS-FILTER CTB (1542-301)
MF14G	MF28G #718 ISS LOCKER ROOT MODULE 553 CTB	TRAD	MA16F/G 7495 -304
MF14H	MF28H #615 MULTIMETER	MA9G	GLACIER #607 GLACIER SAMPLES
MF14K	MF28K #610 GSC (1) #616 PCMCIA CARD POUCH #617 SCOPE PRESS PROBE #618 M3P/4M/5M/6M/7M/8M/9M/10M/11M/12M/13M/14M/15M/16M/17M/18M/19M/20M/21M/22M/23M/24M/25M/26M/27M/28M/29M/30M/31M/32M/33M/34M/35M/36M/37M/38M/39M/40M/41M/42M/43M/44M/45M/46M/47M/48M/49M/50M/51M/52M/53M/54M/55M/56M/57M/58M/59M/60M/61M/62M/63M/64M/65M/66M/67M/68M/69M/70M/71M/72M/73M/74M/75M/76M/77M/78M/79M/80M/81M/82M/83M/84M/85M/86M/87M/88M/89M/90M/91M/92M/93M/94M/95M/96M/97M/98M/99M/100M	MA9J	MA16J 8989 -302 #603 DOUBLE COLD SAMPLE BAG
MF14M	MF28M	MA9L	MA16L
MF14O	MF28O	MA9N SOFT STWG BAGS	MA16N

**MIDDECK AFT**

MA9D/F	MA16D 1411 -301 #608 - #609 GSC (4) #611 HIGH RATE DOS #612 INTEGRATED IMMUNE SALIVA #618 VELOCICALC #911 OGS-FILTER CTB (1542-301)
TRAD	MA16F/G 7495 -304
MA9G	GLACIER #607 GLACIER SAMPLES
MA9J	MA16J 8989 -302 #603 DOUBLE COLD SAMPLE BAG
MA9L	MA16L
MA9N SOFT STWG BAGS	MA16N

A16	A17	VOLUME D (IND52Q) NOT INSTALLED	VOLUME H (IND23H) <input checked="" type="checkbox"/> EMU SERVICING KIT
VOL 3B (IND472J)	VOL 3B (IND472J)	VOLUME F (IND764A) WET TRASH	VOLUME G (IND60N)
VOL 3B (IND472J)	VOL 3B (IND472J)	VOLUME E (IND764A) WET TRASH	VOLUME I (IND23H) #908 ISS MPC

**ONLY LOCATIONS THAT  
CHANGED OR CONTAIN TRANSFER  
ITEMS ARE SHOWN**

NOTE: LOCKER LAYOUTS ARE FOR REFERENCE ONLY & ARE NOT RELEASED DWGS. FOR RELEASED DRAWING,  
PLEASE REFER TO THE CREW COMPARTMENT CONFIGURATION DRAWING FOR THIS FLIGHT (SGD32104451)

LEADER:	VANESSA OSBORN
DATE:	9-07-09
LAUNCH:	8-28-09
FLIGHT:	STS-128/17A (MPLM)
VEHICLE:	OV-103
CREW:	7 CREW 13 + 1 + 3 DAYS
ROOMTS:	NO RCRS, SLEEPING
	BAGS, EXT A/L, ERGOMETER, RMS
	LW MAR, NON-EDO VOL B, NO VOL D

<b>E</b>	MD CEIL (PORT 1) 0718 308
<b>F</b>	MD CEIL (PORT 2) 9895 -317 ACES/ACES GLOVES (ST) G-SUIT (ST)
<b>G</b>	MD CEIL (STRD 1) 6665 #905 CWC-1 CWC HCTB (2007-301) SSP +1 FOOD
<b>H</b>	MD CEIL (STRD 2) IELK FOAM
<b>B</b>	MD FLOOR (PORT 2) TBD #912 SOLID WASTE CONTAINER (KTO)
<b>A</b>	# 736 MD FLOOR (PORT 1) TBD #24 OGS PRESSURE SENSOR CALIBRATION (HOCK) HCTB #539 (1544-301) HCTB #545 (1539-301) HCTB #554 (1652-301) HCTB #557 (1541-301) #721 CD CASE #540 CSA-CP #900 PARTICLE FLUX
<b>D</b>	# 600 MD FLOOR (STRD 2) 1381 -TBD 1 ECOK (OI) 1 ECOK (FE) 2 LCVG (KO, Ff) PHASE VI GLOVES (3 PR) CTB (1488-304) RPCM HCTB (1545-302) CCA (2) GPS CABLE CON. CAPS (4)
<b>C</b>	MD FLOOR (STRD 1) 1386 -305

DWG NO. SGD32104451

CCMM: DELLA WYLIN  
281-483-9790

/USR/DWGS/LOCKER/STS-128



MSG 114B - ENTRY DAY FLUID LOADING PREP

**Fluid Loading:**

The following is the prescription for fluid loading on Entry day:

Initiate fluid loading at 1 hour before TIG. Consume 8 ounces of water or artificially sweetened (A/S) drink with two salt tablets, every 15 minutes. Fluid loading must be completed by Entry Interface (EI).

CREWMEMBER	FLUID	TOTAL # OF SALT TABLETS
CDR (Sturckow)	32 oz Water	8
PLT (Ford)	40 oz Tropical Punch A/S	10
MS1 (Forrester)	40 oz Orange Ade	n/a
MS2 (Hernandez)	24 oz Water 16 oz Lemon-Lime Ade	6
MS3 (Olivas)	48 oz Lemon-Lime Ade	n/a
MS4 (Fuglesang)	40 oz Water	10
MS5 (Kopra)	40 oz Water	10

Note: Pre-packaged volume may exceed prescribed quantity. Fluid loading bags may be filled the night before and consumed within 30 hours of filling. Fluid loading bags not consumed within this time should be discarded and new bags filled for use.

If there is a one orbit wave-off and fluid loading was completed on the previous de-orbit attempt, then the following prescription should be completed by EI:

CREWMEMBER	FLUID	TOTAL # OF SALT TABLETS
CDR (Sturckow)	16 oz Water	4
PLT (Ford)	20 oz Tropical Punch A/S	6
MS1 (Forrester)	20 oz Orange Ade	n/a
MS2 (Hernandez)	12 oz Water 8 oz Lemon-Lime Ade	4
MS3 (Olivas)	24 oz Lemon-Lime Ade	n/a
MS4 (Fuglesang)	20 oz Water	6
MS5 (Kopra)	20 oz Water	6

If there is a greater than one orbit wave-off or a partial fluid load was performed on the previous de-orbit attempt then the entire protocol above should be repeated.

**Anti-G Suit Operations:**

Anti-G suits must be inflated to 0.5 psi (one click) at or near entry interface and to at least 1.0 psi (two clicks) at one G.

**Dosimeter Reminder:**

Ensure that all dosimeters are stowed in your ACES suits.