STS-124 / 1J

FD 14 Execute Package

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117	---	FD14 PAO Event Summary - CBS News / WCBS Radio, NY / WINS Radio, NY **(pdf - Electronic Only)**

Approved by FAO: *Jaime Marshik*

Last Updated: Jun 13 2008 5:25AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG 114A - FD14 THROUGH EOM+3 FLIGHT PLAN REVISION

MSG INDEX

MSG NO.	TITLE
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115	FD14 Mission Summary
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118	Entry Day Fluid Loading

1. FD14 Post Sleep Cryo Config

   For today's cryo config, O2 and H2 tanks 1 and 4 are active. H2 Tank 4 may deplete late in the day.

   R1 O2, H2 MANF VLV TK1 (two) - OP (tb-OP)

2. CWC Overboard Dump & Stowage

   Dump Shuttle Condensate CWC S/N 5050 using CWC OVERBOARD DUMP (ORB OPS, ECLS) p. 5-32. CWC S/N 5050 was temp stowed on the middeck on FD 12. MCC will TMBU FDA in steps B and H.

   Waste nozzle open time will be ~40 minutes. After step G, proceed to the Waste Water dump.

   The CWC S/N 5050 can be stowed for entry in MF71M.

3. Waste Water Dump

   After completing the CWC dump, perform a Waste Water dump using SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) p. 5-2. MCC will TMBU FDA in steps B and K.

   Dump the waste tank to 5%. Waste nozzle open time will be ~15 minutes.

4. Fluid Loading

   Per today's EZ Activity callout, water for fluid loading should be pulled today. Reference MSG 118. If possible, deconflict pulling fluid load water and your EOM-1 FES dump currently scheduled for ~12/19:10 MET. Report to MCC when complete.

5. Windecom & FCMS for Wave off

FCMS Ops for Fuel Cell 3 are desired to be performed if we wave off. The Windecom PGSC and the FCMS Data Cable will need to be unstowed and deployed prior to the FCMS Ops. A verbal report of any out-of-limit values is sufficient since the Ku is stowed and the data cannot be downlinked. Please report any cells for Fuel Cell 3 that read < 920 mV (yellow). It is expected that FC3 Cells 95 and 96 will read OSH and OSL due to pin sharing.

6. Outlook

Prior to KU Stow this afternoon, we will downlink your Outlook Personal Folders so that you may have them when you return to Houston. If you would like to keep any messages, please move them out of your INBOX, SENT ITEMS and WORK RELATED folders and into your Personal Folder before **MET 12/18:45**. We will also perform one final mail sync at the same time to deliver any last minute messages you want to send. We will not lock you out of your e-mail during this time so that you can still read it after PST downlink and KU stow.

7. REPLACE PAGES 2-47 THROUGH 2-56 and 3-150 THROUGH 3-166.

06/13/08 00:08:54 **REPLANNED**

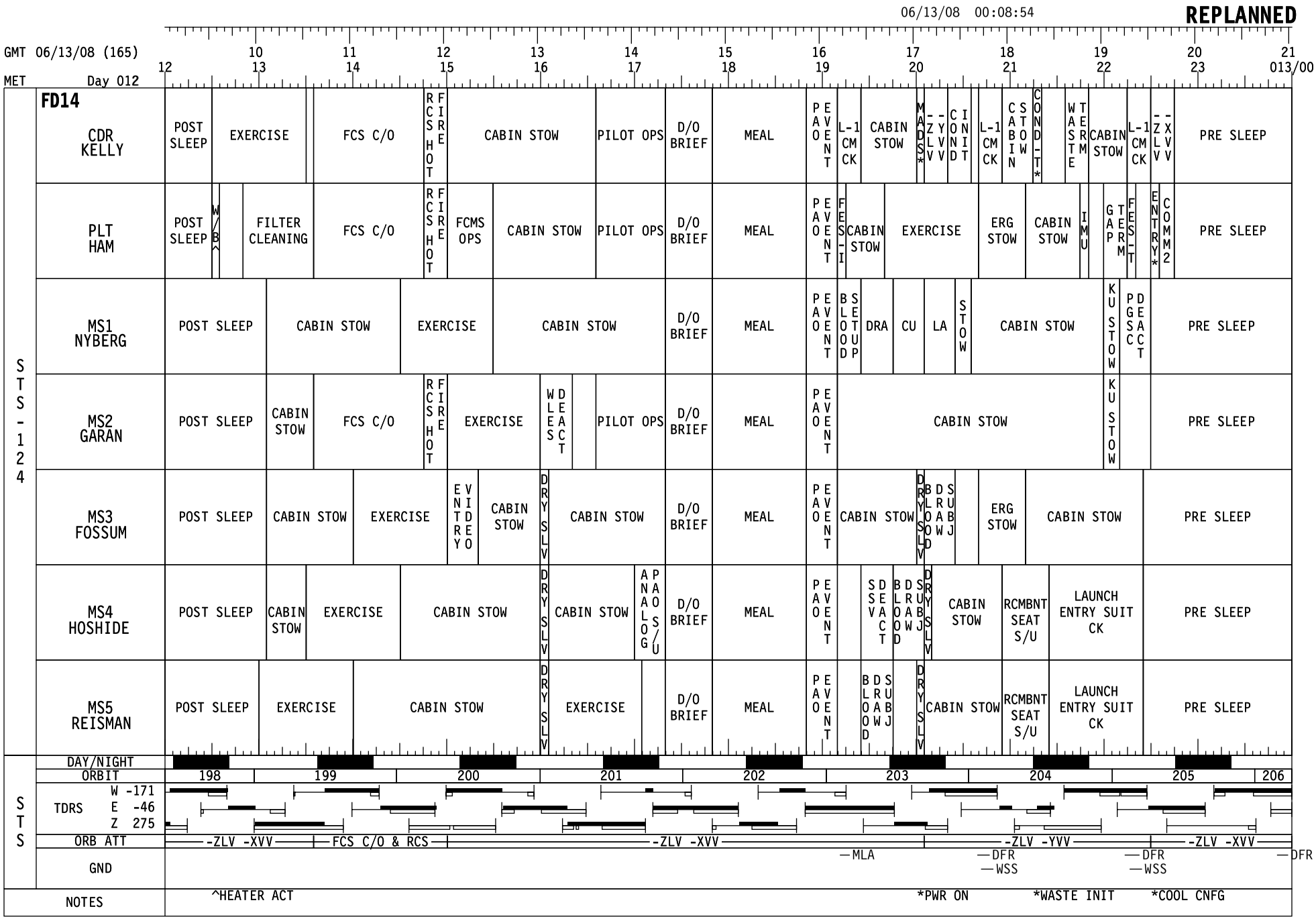
GMT 06/12/08 (164) 012/00 22 23 06/13 01 02 03 04 05 06 07 08 09
MET Day 012 01 02 03 04 05 06 07 08 09 10 11 12

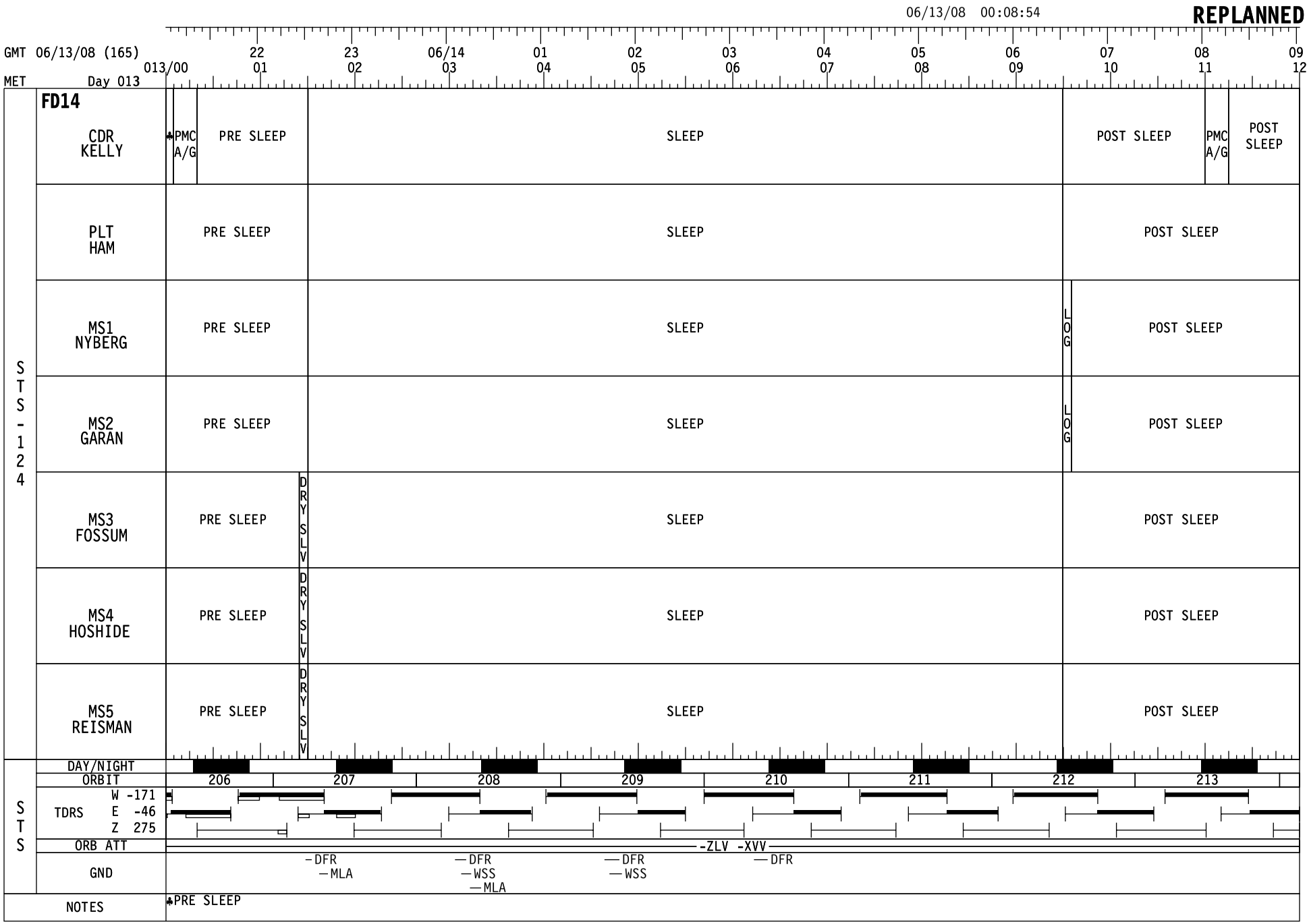
FD13

STS-124

CDR KELLY	PRE SLEEP	PMC A/G, PRE SLEEP	SLEEP	POST SLEEP
PLT HAM	PRE SLEEP		SLEEP	POST SLEEP
MS1 NYBERG	PRE SLEEP		SLEEP	LOG, POST SLEEP
MS2 GARAN	PRE SLEEP		SLEEP	LOG, POST SLEEP
MS3 FOSSUM	PRE SLEEP		SLEEP	SLVA, DRY SLV, POST SLEEP, DRY SLV, POST SLEEP
MS4 HOSHIDE	PRE SLEEP		SLEEP	SLVA, DRY SLV, POST SLEEP, DRY SLV, POST SLEEP
MS5 REISMAN	PRE SLEEP		SLEEP	SLVA, DRY SLV, POST SLEEP, DRY SLV, POST SLEEP

DAY/NIGHT		
ORBIT	190 191 192 193 194 195 196 197 198	
STS TDRS	W -171 E -46 Z 275	
STS ORB ATT	-ZLV -XVV	
STS GND	-DFR	-DFR, -WSS, -MLA
	-DFR	-DFR, —WSS, —MLA
	—DFR	—DFR, —WSS
	-DFR	
NOTES		


06/13/08 00:08:54
REPLANNED
GMT 06/13/08 (165)
MET Day 012
12 13 14 15 16 17 18 19 20 21 22 23 013/00
STS-124
FD14
CDR KELLY
POST SLEEP
EXERCISE
FCS C/O
RCS HOT FIRE
CABIN STOW
PILOT OPS
D/O BRIEF
MEAL
PAO EVENT
L-1 CM CK
CABIN STOW
MDS* -ZLV -YVV
CINDT
L-1 CM CK
CSA BOW IN
COND-T*
WASTE TERM
CABIN STOW
L-1 CM CK
-ZLV -XVV
PRE SLEEP
PLT HAM
POST SLEEP
W/B^
FILTER CLEANING
FCS C/O
RCS HOT FIRE
FCMS OPS
CABIN STOW
PILOT OPS
D/O BRIEF
MEAL
PAO EVENT
FES-I
CABIN STOW
EXERCISE
ERG STOW
CABIN STOW
IMU
GAP TERM
FES-T
ENTRY*
COMM2
PRE SLEEP
MS1 NYBERG
POST SLEEP
CABIN STOW
EXERCISE
CABIN STOW
D/O BRIEF
MEAL
PAO EVENT
BSE LOOD
STOUDP
DRA
CU
LA
STOW
CABIN STOW
KU STOW
PDGA SCCT
PRE SLEEP
MS2 GARAN
POST SLEEP
CABIN STOW
FCS C/O
RCS HOT FIRE
EXERCISE
WLES DEACT
PILOT OPS
D/O BRIEF
MEAL
PAO EVENT
CABIN STOW
KU STOW
PRE SLEEP
MS3 FOSSUM
POST SLEEP
CABIN STOW
EXERCISE
ENTRY EVIDEO
CABIN STOW
DRY SLV
CABIN STOW
D/O BRIEF
MEAL
PAO EVENT
CABIN STOW
DRY SLV
BLOOD
DSU BJ
ERG STOW
CABIN STOW
PRE SLEEP
MS4 HOSHIDE
POST SLEEP
CABIN STOW
EXERCISE
CABIN STOW
DRY SLV
CABIN STOW
ANALOG
PAO S/U
D/O BRIEF
MEAL
PAO EVENT
SDSE VACT
BDSU LOAB OWJ
DRY SLV
CABIN STOW
RCMBNT SEAT S/U
LAUNCH ENTRY SUIT CK
PRE SLEEP
MS5 REISMAN
POST SLEEP
EXERCISE
CABIN STOW
DRY SLV
EXERCISE
D/O BRIEF
MEAL
PAO EVENT
BDSU LOAB OWJ
DRY SLV
CABIN STOW
RCMBNT SEAT S/U
LAUNCH ENTRY SUIT CK
PRE SLEEP
DAY/NIGHT
ORBIT 198 199 200 201 202 203 204 205 206
STS
TDRS W -171
E -46
Z 275
ORB ATT -ZLV -XVV FCS C/O & RCS -ZLV -XVV -ZLV -YVV -ZLV -XVV
GND
MLA
DFR WSS
DFR WSS
DFR
NOTES
^HEATER ACT
*PWR ON
*WASTE INIT
*COOL CNFG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MET Day 013
013/00 22 23 06/14 01 02 03 04 05 06 07 08 09 10 11 12
FD14
CDR KELLY
PMC A/G
PRE SLEEP
SLEEP
POST SLEEP
PMC A/G
POST SLEEP
PLT HAM
MS1 NYBERG
LOG
MS2 GARAN
MS3 FOSSUM
DRY SLV
MS4 HOSHIDE
MS5 REISMAN
STS-124
DAY/NIGHT
ORBIT
206 207 208 209 210 211 212 213
TDRS W -171 E -46 Z 275
STS
ORB ATT
-ZLV -XVV
GND
-DFR -MLA
-DFR -WSS -MLA
-DFR -WSS
-DFR
NOTES
♣PRE SLEEP

GMT 06/14/08 (166): 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21

MET Day 013: 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 014/00

FD15

STS-124

Crew	Activities (in time order)
CDR KELLY	PST SLP; GRPB; PWRUP; IMU ALIGN & VERIF; MNVR; -XSI; DEORBIT PREP; DEORBIT BURN; KSC LANDING; DEORBIT PREP BACKOUT; MNVR; HUD; HUD CAL; -ZLV; -XVV; PRE SLEEP
PLT HAM	PST SLP; GRPB; PWRUP; SAMPL; GIRA; STOW; DEORBIT PREP; DEORBIT BURN; KSC LANDING; DEORBIT PREP BACKOUT; FCMS OPS#; PRE SLEEP
MS1 NYBERG	MADS@; POST SLEEP; OCAC; STOW; WATCH*; DEORBIT PREP; DEORBIT BURN; KSC LANDING; DEORBIT PREP BACKOUT; WATCH*; MCIU; PRE SLEEP
MS2 GARAN	POST SLEEP; WATCH*; DEORBIT PREP; DEORBIT BURN; KSC LANDING; DEORBIT PREP BACKOUT; WATCH*; GIRA INSTALL; PRE SLEEP
MS3 FOSSUM	POST SLEEP; FMK; STOW; DEORBIT PREP; DEORBIT BURN; KSC LANDING; DEORBIT PREP BACKOUT; OCAC; SETUP; PRE SLEEP
MS4 HOSHIDE	POST SLEEP; DEORBIT PREP; DEORBIT BURN; KSC LANDING; DEORBIT PREP BACKOUT; PRE SLEEP
MS5 REISMAN	POST SLEEP; PMC A/G; SLVA; STOW; WATCH*; DEORBIT PREP; DEORBIT BURN; KSC LANDING; DEORBIT PREP BACKOUT; WATCH*; PRE SLEEP

ORBIT	TIG
KSC 217	013/17:08
KSC 218	013/18:44

STS

DAY/NIGHT	
ORBIT	214, 215, 216, 217, 218, 219, 220, 221
TDRS W -171, E -46, Z 275	
ORB ATT	IMU; -XSI; COMM; ENTRY; -ZLV-XVV; HUD; -ZLV-XVV
GND	MLA; -DFR, WSS; DFR, WSS; DFR, -WSS

DEORBIT TIG (13/17:08) LANDING (13/18:13)

NOTES: @ENABLE; *DOFF; #UNSTOW WINDECOM PGSC; *DON

GMT 06/14/08 (166): 22, 23, 06/15, 01, 02, 03, 04, 05, 06, 07, 08, 09

MET Day 014: 014/00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12

FD16 — STS-124

Crew	Activities
CDR KELLY	PMC A/G; PRE SLEEP; SLEEP; POST SLEEP; PMC A/G; POST SLEEP; GRPB; PWRUP; IMU ALIGN & VERIF; MNVR; -XSI; DO PREP
PLT HAM	PRE SLEEP; SLEEP; POST SLEEP; GRPB; PWRUP; SAMPL; GIRA; STOW; POST SLEEP; DO PREP
MS1 NYBERG	PRE SLEEP; SLEEP; LOG; POST SLEEP; MADS@; POST SLEEP; OCAC; STOW; WATCHE*; DO PREP
MS2 GARAN	PRE SLEEP; SLEEP; LOG; POST SLEEP; WATCHE*; DO PREP
MS3 FOSSUM	PRE SLEEP; SLEEP; POST SLEEP; FMK; STOW; DO PREP
MS4 HOSHIDE	PRE SLEEP; SLEEP; POST SLEEP; DO PREP
MS5 REISMAN	PRE SLEEP; SLEEP; POST SLEEP; PMC A/G; SLVA; STOW; WATCHE*; DO PREP

STS	
DAY/NIGHT	
ORBIT	222, 223, 224, 225, 226, 227, 228, 229
TDRS	W -171; E -46; Z 275
ORB ATT	-ZLV-XVV; IMU
GND	-DFR; -DFR -WSS -MLA; -DFR -WSS -MLA; -DFR -WSS; -DFR
NOTES	@ENABLE *DOFF

EOM+1 06/13/08 00:08:54 **REPLANNED**

GMT 06/15/08 (167) 12 13 14 15 16 17 18 19 20 21 22 23 015/00

MET Day 014

STS-124

FD16

CDR KELLY	DEORBIT PREP	DEORBIT BURN	KSC LANDING	DEORBIT PREP BACKOUT	+ZLV +YVV WAIST TERM WASTE L-1 COM	PRE SLEEP
PLT HAM	DEORBIT PREP	DEORBIT BURN	KSC LANDING	DEORBIT PREP BACKOUT	FCMS OPS# -ZLV --XVV	PRE SLEEP
MS1 NYBERG	DEORBIT PREP	DEORBIT BURN	KSC LANDING	DEORBIT PREP BACKOUT	WATCH* MCIU	PRE SLEEP
MS2 GARAN	DEORBIT PREP	DEORBIT BURN	KSC LANDING	DEORBIT PREP BACKOUT	WATCH* GIRA INSTALL	PRE SLEEP
MS3 FOSSUM	DEORBIT PREP	DEORBIT BURN	KSC LANDING	DEORBIT PREP BACKOUT	OCAC SETUP	PRE SLEEP
MS4 HOSHIDE	DEORBIT PREP	DEORBIT BURN	KSC LANDING	DEORBIT PREP BACKOUT		PRE SLEEP
MS5 REISMAN	DEORBIT PREP	DEORBIT BURN	KSC LANDING	DEORBIT PREP BACKOUT	WATCH*	PRE SLEEP

ORBIT	TIG
KSC 232	014/15:56
KSC 233	014/17:31

STS

DAY/NIGHT

ORBIT 230 231 232 233 234 235 236 237

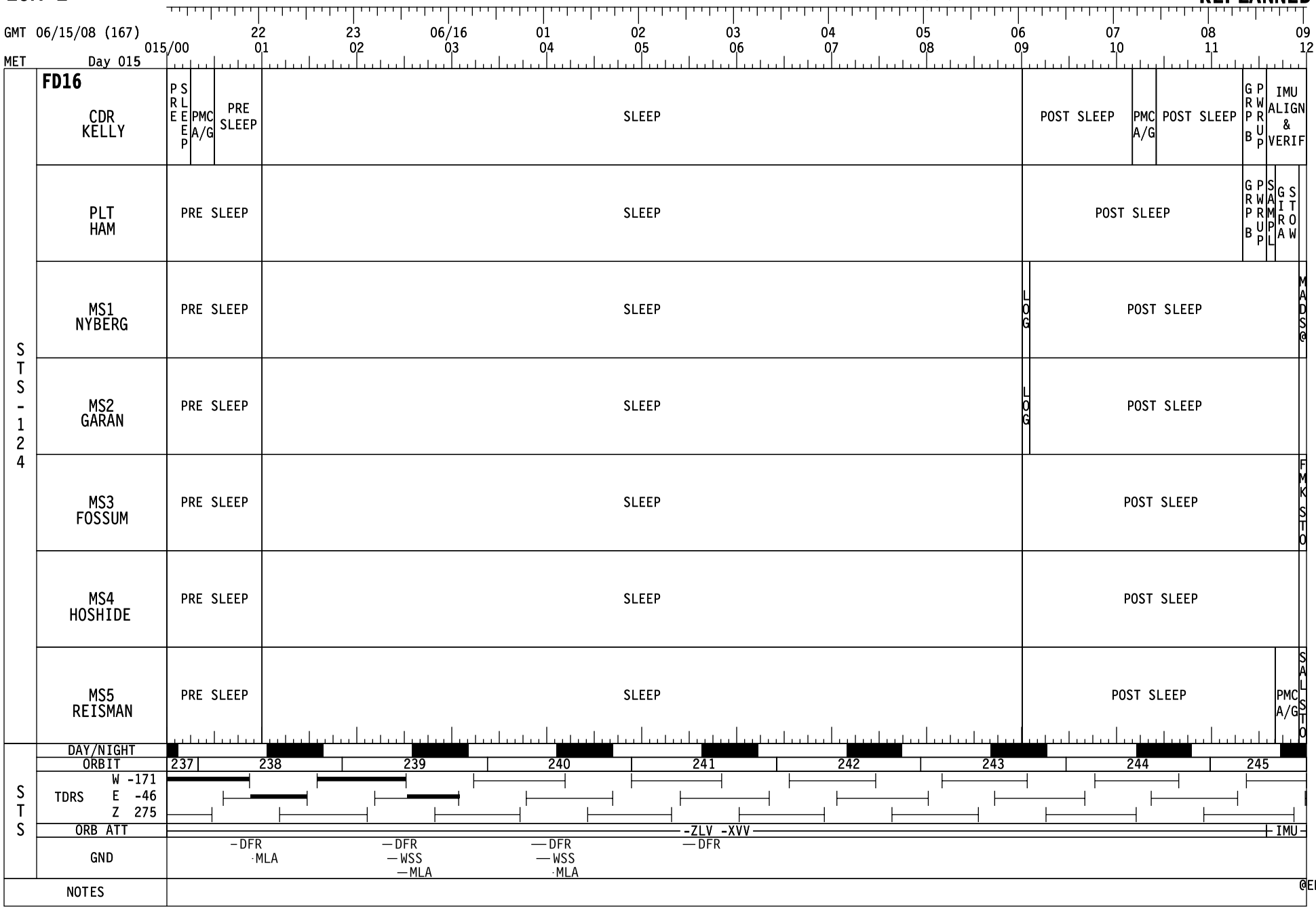
TDRS W -171 E -46 Z 275

ORB ATT -XSI COMM ENTRY -ZLV +ZLV +YVV -ZLV -XVV

GND MLA -ZLV DFR WSS DFR WSS DFR

DEORBIT TIG (14/15:56) LANDING (14/17:01)

NOTES #UNSTOW WINDECOM PGSC
*DON


GMT 06/15/08 (167)
MET Day 015
015/00 22 23 06/16 01 02 03 04 05 06 07 08 09 10 11 12
FD16
STS-124
CDR KELLY
PRE SLEEP
SLEEP
PMC A/G
PRE SLEEP
SLEEP
POST SLEEP
PMC A/G
POST SLEEP
GRPB
PWRUP
IMU ALIGN & VERIF
PLT HAM
PRE SLEEP
SLEEP
POST SLEEP
GRPB
PWRUP
SAMPL
GITRA
STOW
MS1 NYBERG
PRE SLEEP
SLEEP
LOG
POST SLEEP
MADS@
MS2 GARAN
PRE SLEEP
SLEEP
LOG
POST SLEEP
MS3 FOSSUM
PRE SLEEP
SLEEP
POST SLEEP
FMKSTO
MS4 HOSHIDE
PRE SLEEP
SLEEP
POST SLEEP
MS5 REISMAN
PRE SLEEP
SLEEP
POST SLEEP
PMC A/G
SALSTO
DAY/NIGHT
ORBIT 237 238 239 240 241 242 243 244 245
STS
TDRS W -171 E -46 Z 275
ORB ATT -ZLV -XVV IMU
GND
DFR MLA
DFR WSS MLA
DFR WSS MLA
DFR
NOTES
@ENABLE

EOM+2 06/13/08 00:08:54 **REPLANNED**

GMT 06/16/08 (168) 12 13 14 15 16 17 18 19 20 21 22 23 016/00
MET Day 015

STS-124

FD17

CDR KELLY	♣MNVR M-XSI	DEORBIT PREP	DEORBIT BURN / KSC LANDING	DEORBIT PREP BACKOUT	PMC A/G; PRE SLEEP
PLT HAM		DEORBIT PREP		DEORBIT PREP BACKOUT	FCMS OPS#; PRE SLEEP
MS1 NYBERG	OCAC; STOW; WATCH*	DEORBIT PREP		DEORBIT PREP BACKOUT	WATCH*; MCIU; PRE SLEEP
MS2 GARAN	WATCH*	DEORBIT PREP		DEORBIT PREP BACKOUT	WATCH*; GIRA INSTALL
MS3 FOSSUM	FMK STO	DEORBIT PREP		DEORBIT PREP BACKOUT	OCAC; SETUP; PRE SLEEP
MS4 HOSHIDE		DEORBIT PREP		DEORBIT PREP BACKOUT	PRE SLEEP
MS5 REISMAN	SAL STO; WATCH*	DEORBIT PREP		DEORBIT PREP BACKOUT	WATCH*; PRE SLEEP

ORBIT	TIG
KSC 248	015/16:19
KSC 249	015/17:56
EDW 250	015/19:25
EDW 251	015/21:02

STS

DAY/NIGHT

ORBIT 245 246 247 248 249 250 251 252 253

TDRS W -171 / E -46 / Z 275

ORB ATT -XSI- COMM- ENTRY -ZLV -XVV

GND —MLA -DFR —WSS —DFR —WSS —DFR -WSS —DFR

DEORBIT TIG (15/16:19) LANDING (15/17:25)

NOTES
♣IMU ALIGN & VERIF
*DOFF
#UNSTOW WINDECOM PGS(
*DON

EOM+2 06/13/08 00:08:54 **REPLANNED**

GMT 06/16/08 (168) 016/00 22 23 06/17 01 02 03 04 05 06 07 08 09 10 11 12

MET Day 016 00 01 02 03 04 05 06 07 08 09 10 11 12

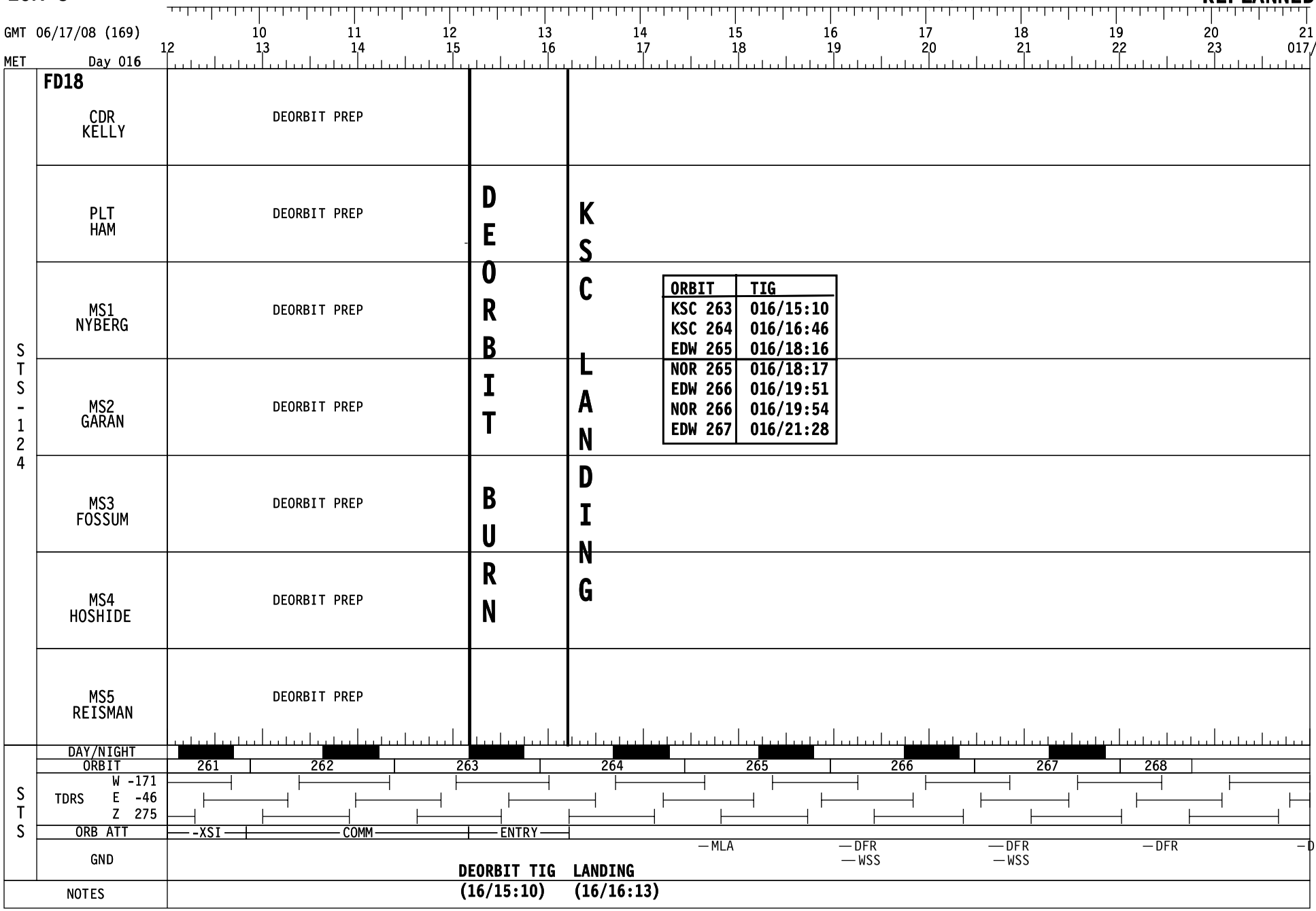
FD17

STS-124

CDR KELLY	SLEEP	POST SLEEP · PMC A/G · POST SLEEP · GRPB · PWRUP · IMU ALIGN & VERIF · MNVR · -XSI · DEORBIT PREP
PLT HAM	SLEEP	POST SLEEP · GRPB · PWRUP · SAMPL · GIRA · STOW · DEORBIT PREP
MS1 NYBERG	SLEEP · LOG	POST SLEEP · MADS@ · OCAC · STOW · WATCH* · DEORBIT PREP
MS2 GARAN	SLEEP · LOG	POST SLEEP · WATCH* · DEORBIT PREP
MS3 FOSSUM	SLEEP	POST SLEEP · FMK · STOW · DEORBIT PREP
MS4 HOSHIDE	SLEEP	POST SLEEP · DEORBIT PREP
MS5 REISMAN	SLEEP	POST SLEEP · PMC A/G · SAL STO · WATCH* · DEORBIT PREP

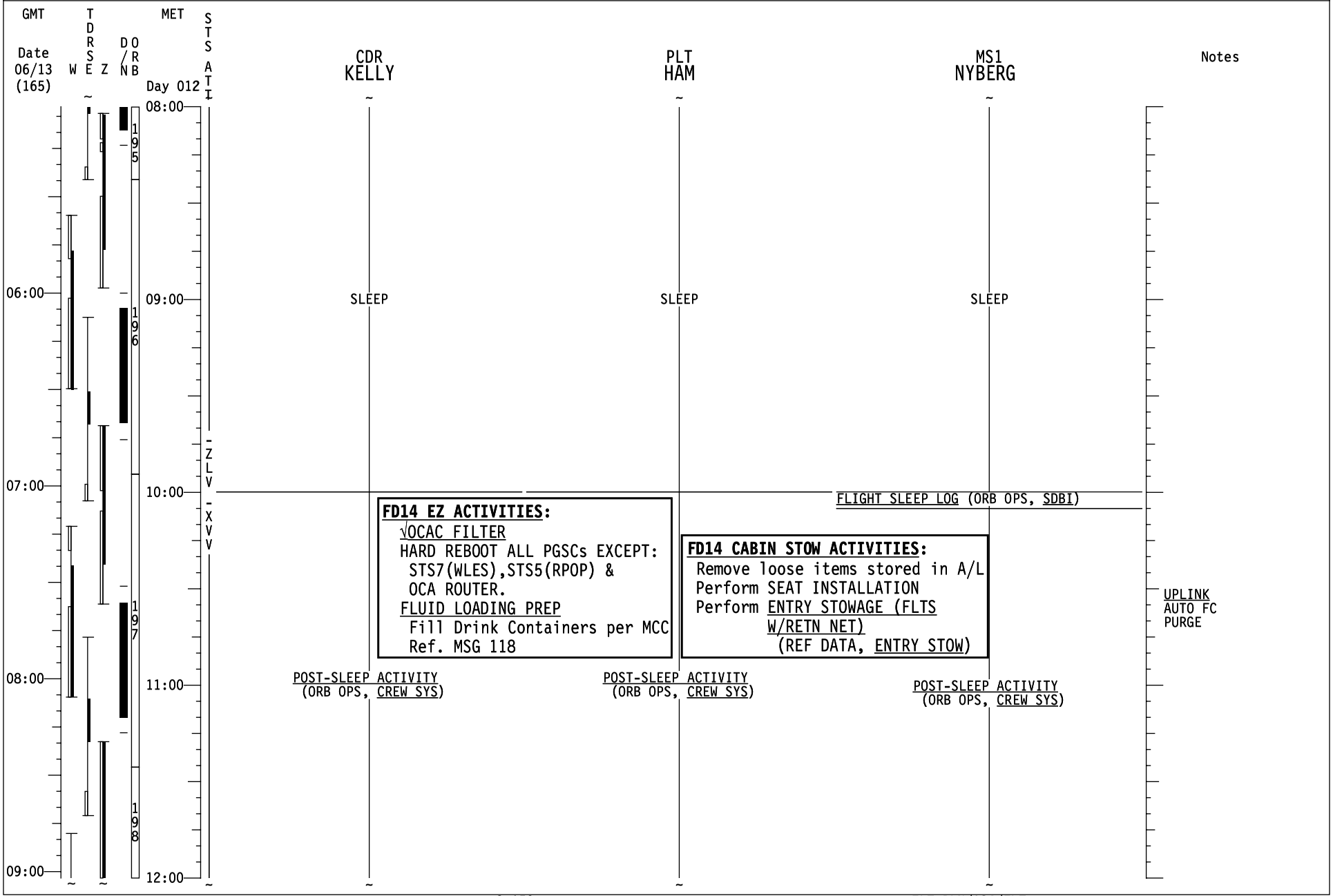
STS

DAY/NIGHT	
ORBIT	253 · 254 · 255 · 256 · 257 · 258 · 259 · 260 · 261
TDRS W -171 / E -46 / Z 275	
ORB ATT	-ZLV -XVV · IMU · -XSI
GND	—DFR -WSS —MLA · —DFR —WSS —MLA · —DFR —WSS · -DFR
NOTES	@ENABLE *DOFF


GMT 06/17/08 (169)
MET Day 016
12 13 14 15 16 17 18 19 20 21 22 23 017/00
FD18
CDR KELLY
PLT HAM
MS1 NYBERG
MS2 GARAN
MS3 FOSSUM
MS4 HOSHIDE
MS5 REISMAN
DEORBIT PREP
DEORBIT BURN
KSC LANDING
STS-124
ORBIT TIG
KSC 263 016/15:10
KSC 264 016/16:46
EDW 265 016/18:16
NOR 265 016/18:17
EDW 266 016/19:51
NOR 266 016/19:54
EDW 267 016/21:28
DAY/NIGHT
ORBIT 261 262 263 264 265 266 267 268
STS
TDRS W -171 E -46 Z 275
ORB ATT -XSI COMM ENTRY
GND MLA DFR WSS DFR WSS DFR DFR
DEORBIT TIG (16/15:10)
LANDING (16/16:13)
NOTES

STS-124 FD14

REPLANNED



STS-124 FD14

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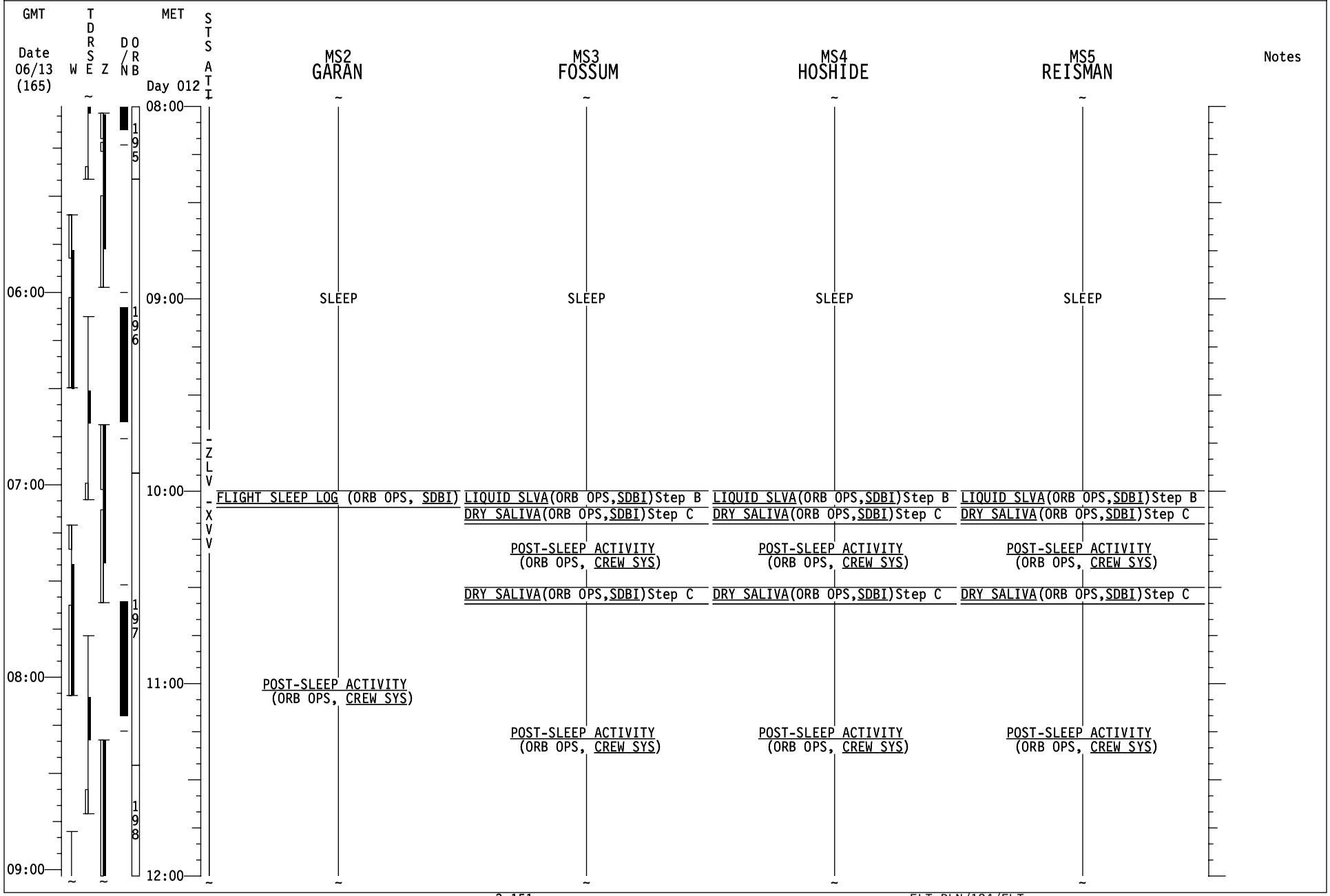

STS-124 FD14

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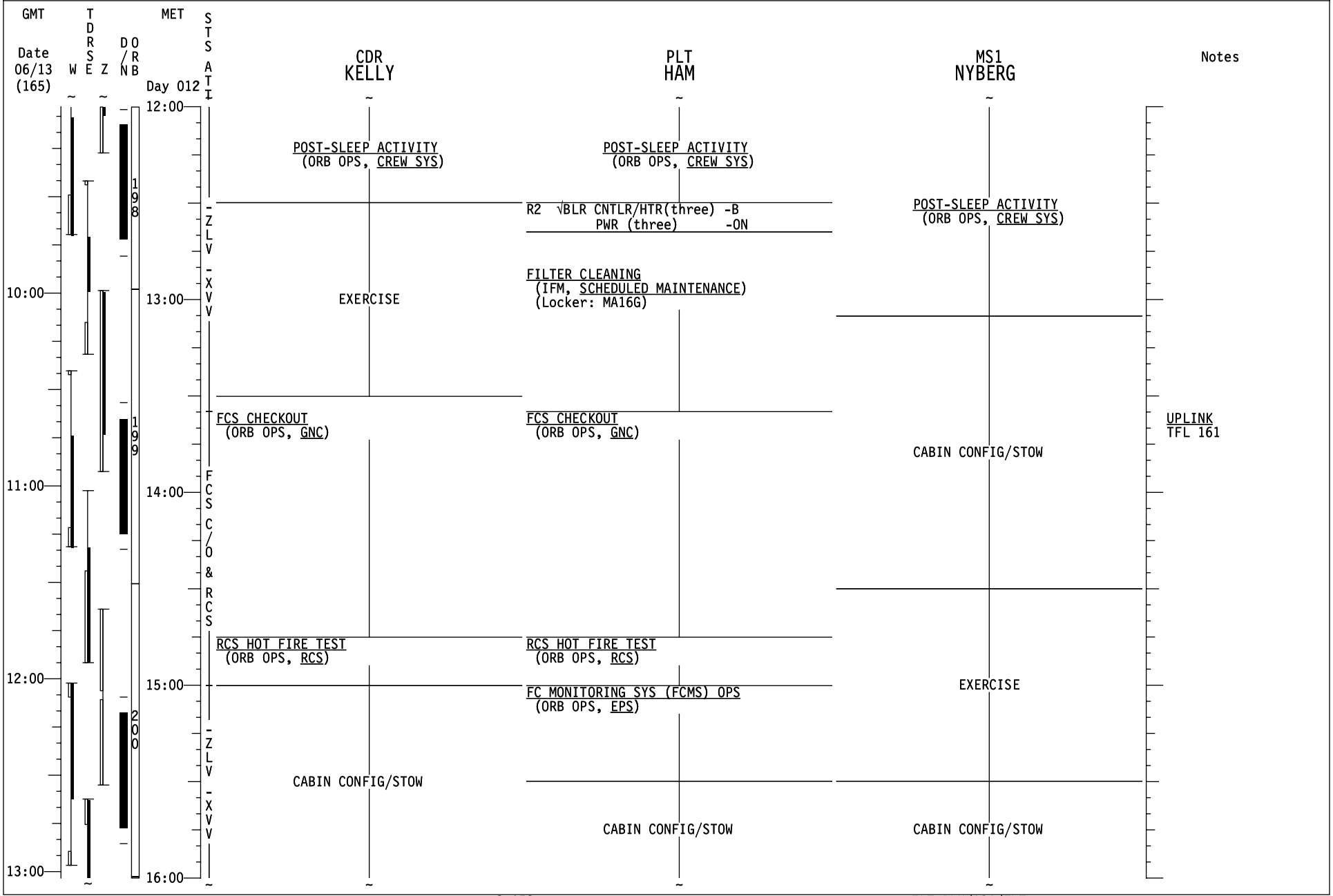

STS-124 FD14

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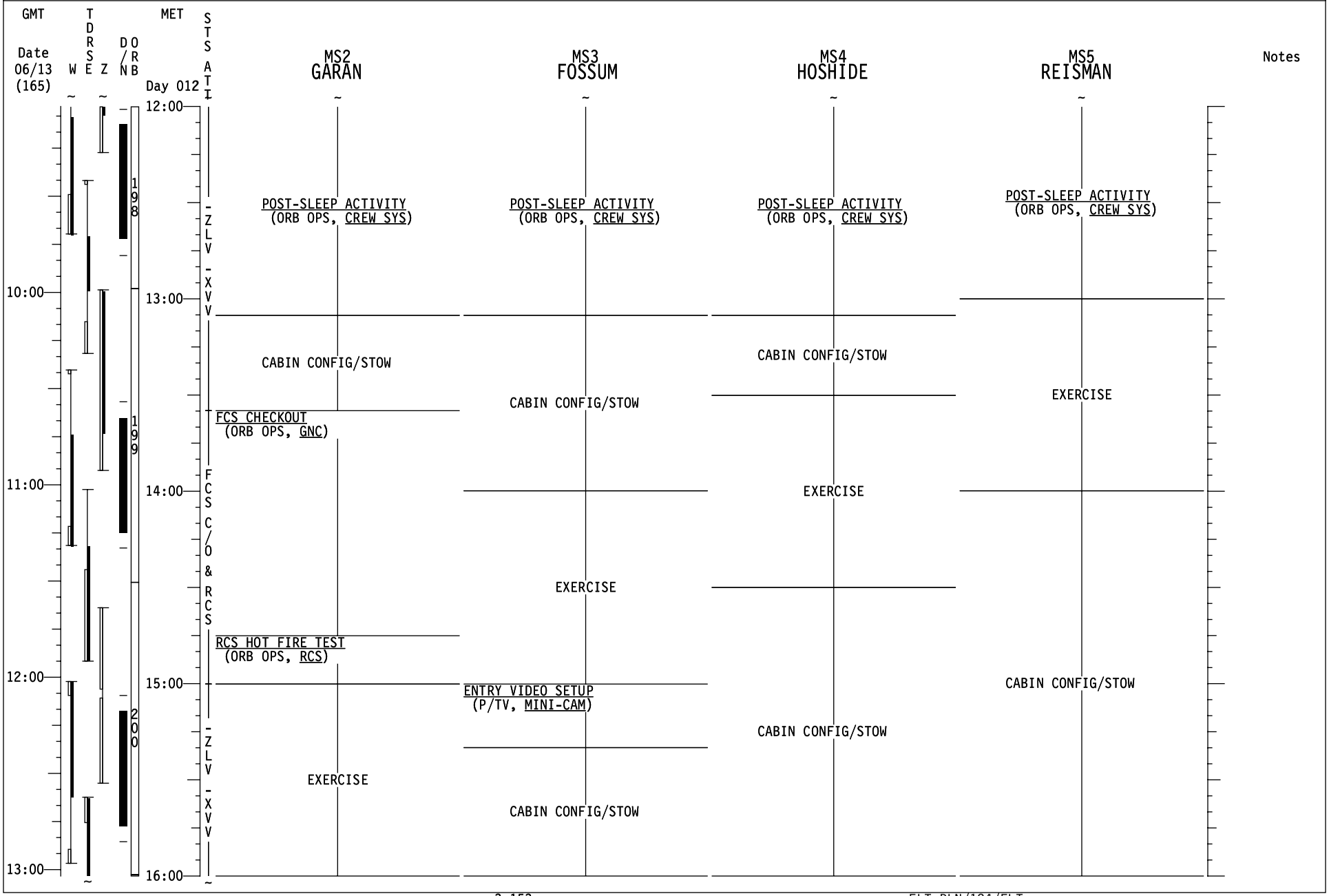

STS-124 FD14

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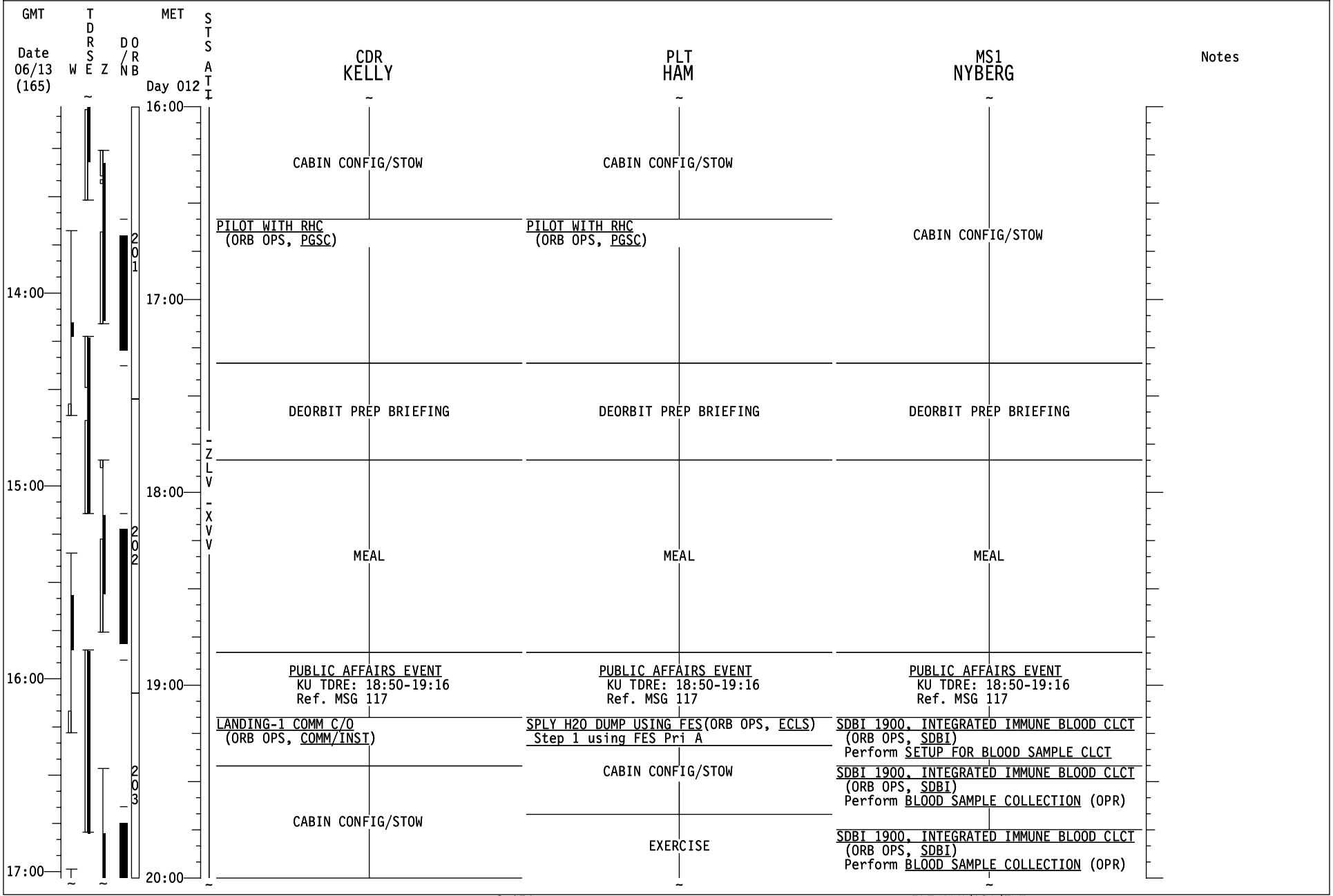

STS-124 FD14

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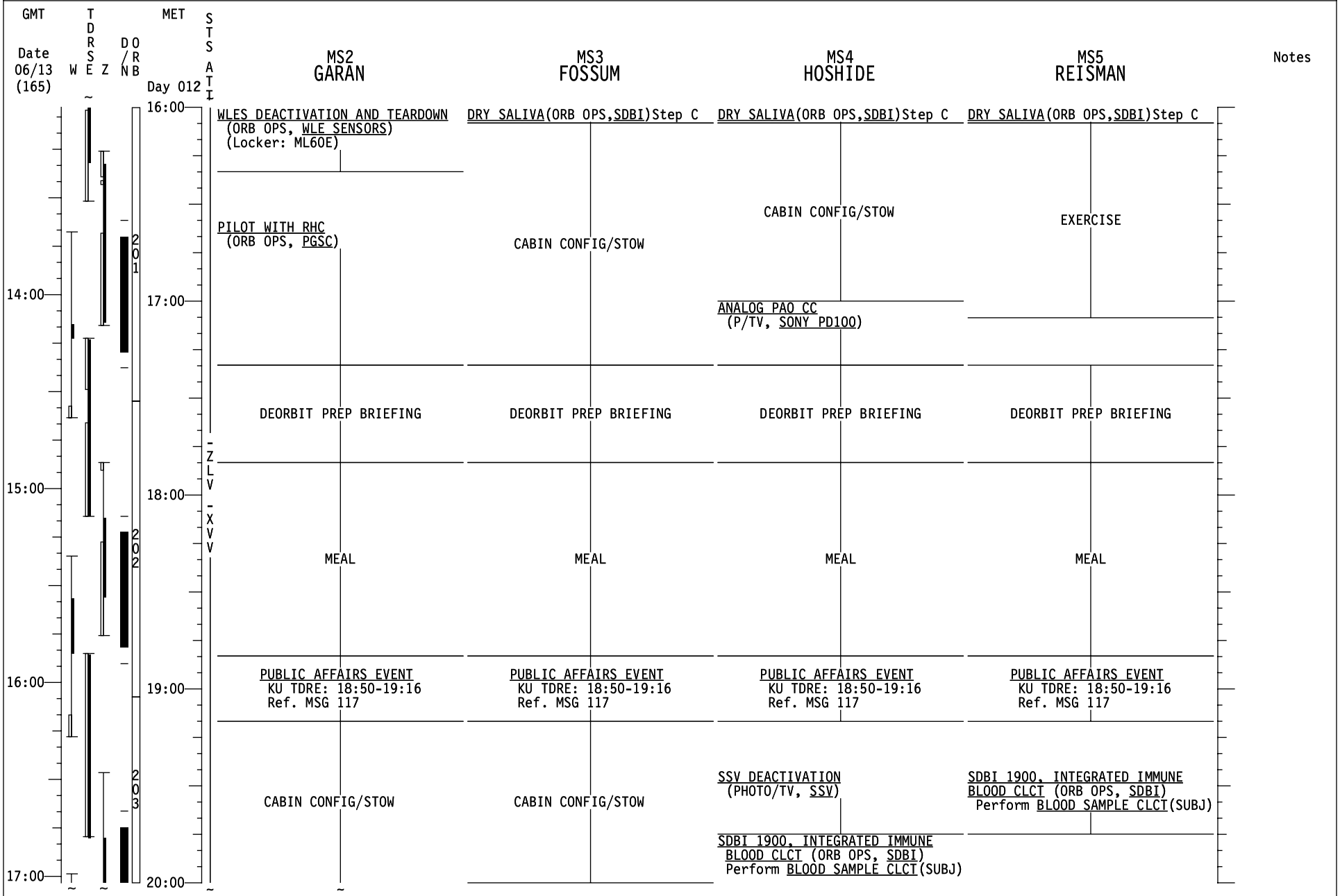


STS-124 FD14

REPLANNED

GMT Date 06/13 (165) | TDRS W E Z | DO/RNB 203 204 205 206 | MET Day 012 | STS ATT -ZLV -YVV -ZLV -XVV

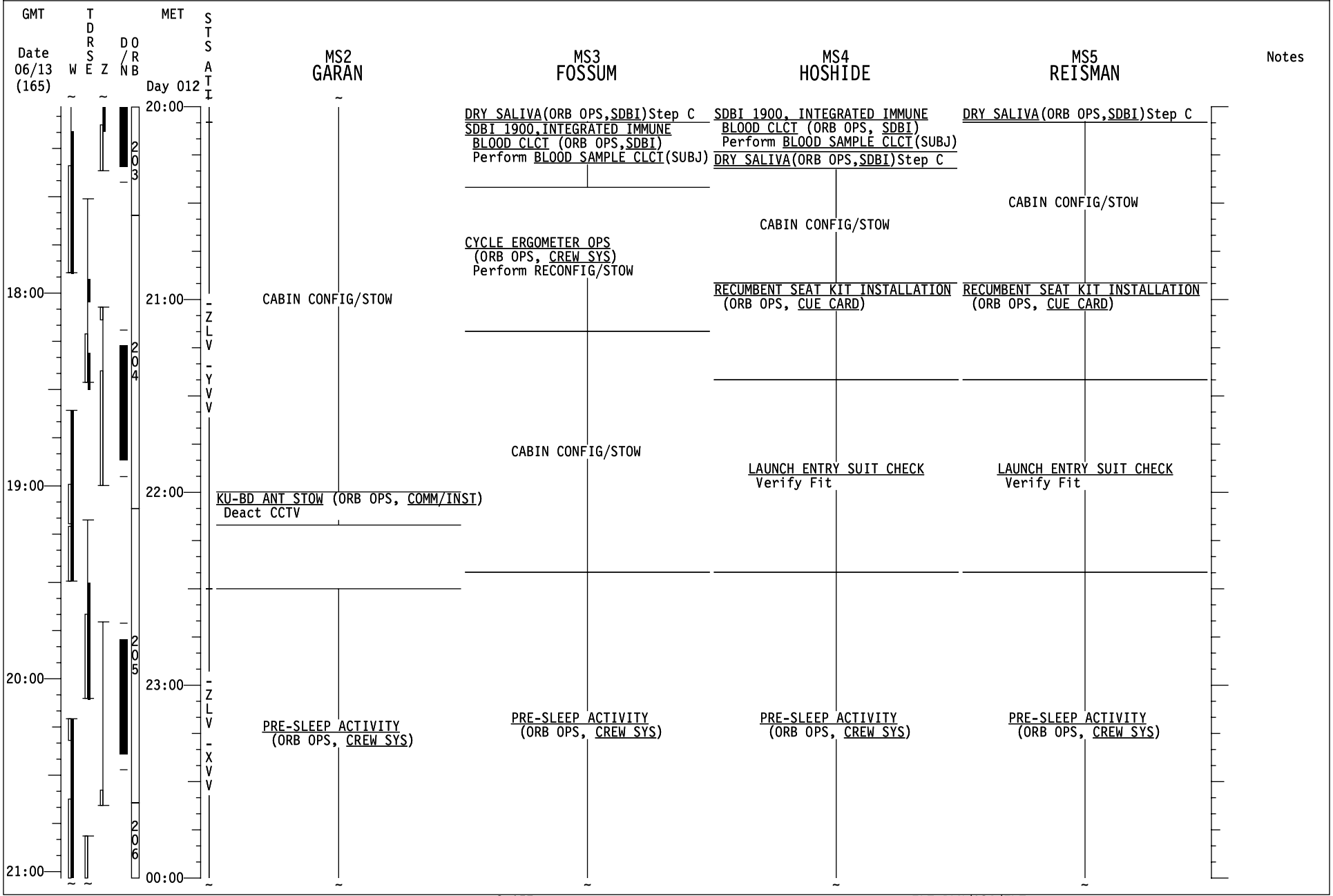
GMT	MET	CDR KELLY	PLT HAM	MS1 NYBERG	Notes
18:00	20:00	C3 MASTER MADS POWER - ON A6L MADS STRAIN GAGE - ON MNVR (TRK) BIAS -ZLV -YVV TG=2 BV=3 OM=110 A1/AUTO/VERN Init TRK CWC OVERBOARD DUMP (ORB OPS, ECLS)Dump S/N 5050 Ref. MSG 114, Item 2 LANDING-1 COMM C/O(ORB OPS, COMM/INST)	~ EXERCISE CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) Perform RECONFIG/STOW	SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS,SDBI)Perform BLD SMPL CLCT(OPR) SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS,SDBI) BLOOD SAMPLE COLLECT(OPR) SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI)Perform STOW HARDWARE	
19:00	21:00	CABIN CONFIG/STOW CONDENSATE DUMP TERM/WASTE DUMP INIT [A] SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Waste Dump	CABIN CONFIG/STOW IMU STAR OF OPTY ALIGN (ORB OPS, GNC)	CABIN CONFIG/STOW	
20:00	22:00	CABIN CONFIG/STOW LANDING-1 COMM C/O (ORB OPS, COMM/INST) MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK	GAP TERMINATION (Locker: MF43E) (ASSY OPS, PAYLOADS) Terminate GAP 8 SPLY H2O DUMP USING FES (ORB OPS, ECLS) Step 2. FES Pri A req'd ENTRY COOLING CONFIG [B] COMM STRING 1 C/O (PART B) (ORB OPS, COMM/INST)	KU-BD ANT STOW (ORB OPS, COMM/INST) Deact CCTV PGSC DEACT Powerdown & stow color printer, WAP, and all PGSCs except WinDecom. (Locker: ML60E)	
21:00	23:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	00:00				

[A] CWC OVERBOARD DUMP
(ORB OPS, ECLS)
TERM Condensate Dump (MF71M)
SUPPLY/WASTE WATER DUMP
(ORB OPS, ECLS) INIT Waste Dump
Ref. MSG 117, Item 3

[B] ENTRY COOLING CNFG PRIOR TO PRESLP
R12 √VPU PWR - OFF (LED off)
Minimize use of P/TV Equip
Dim cabin lighting 25%

STS-124 FD14

REPLANNED



STS-124 FD14

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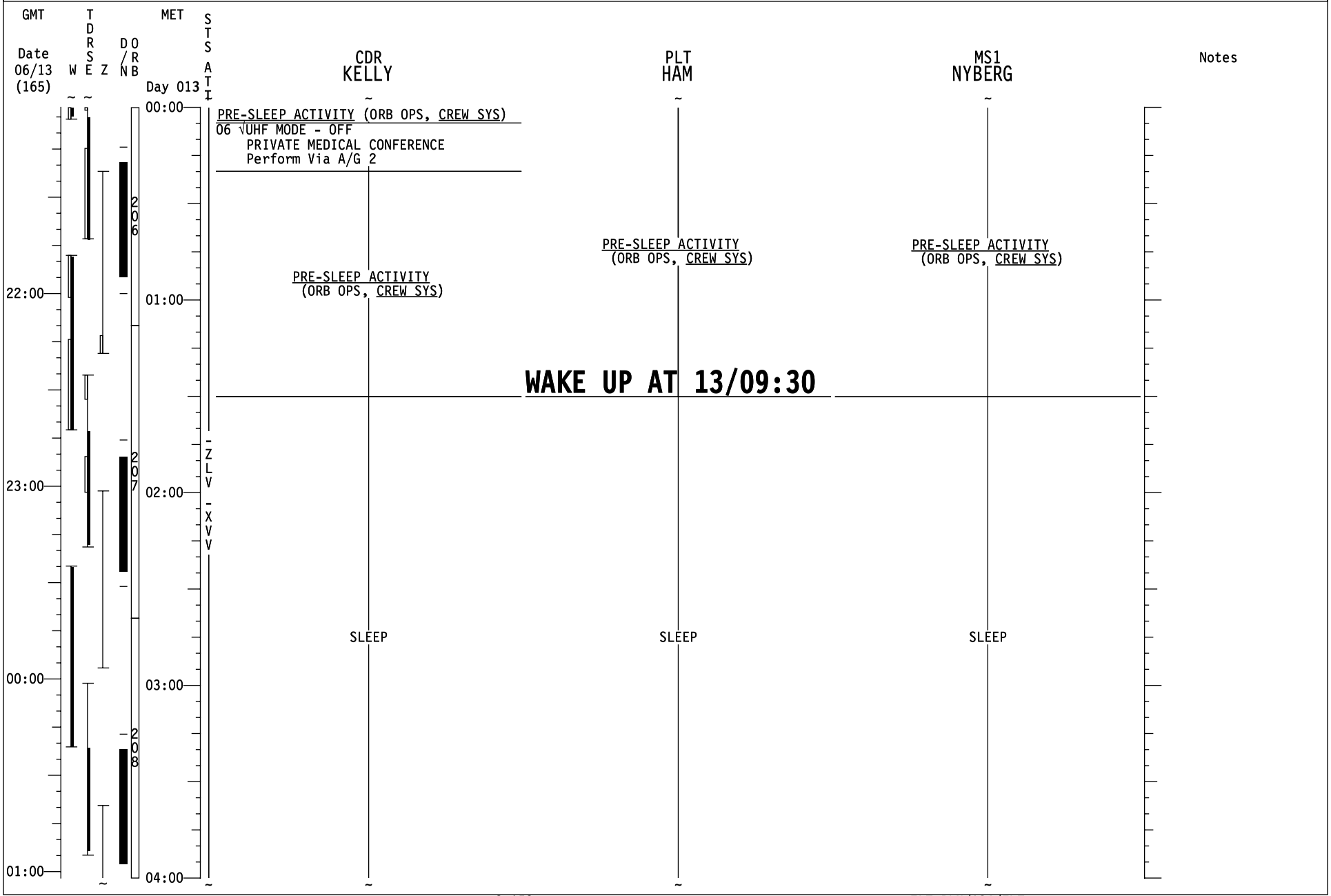

STS-124 FD14

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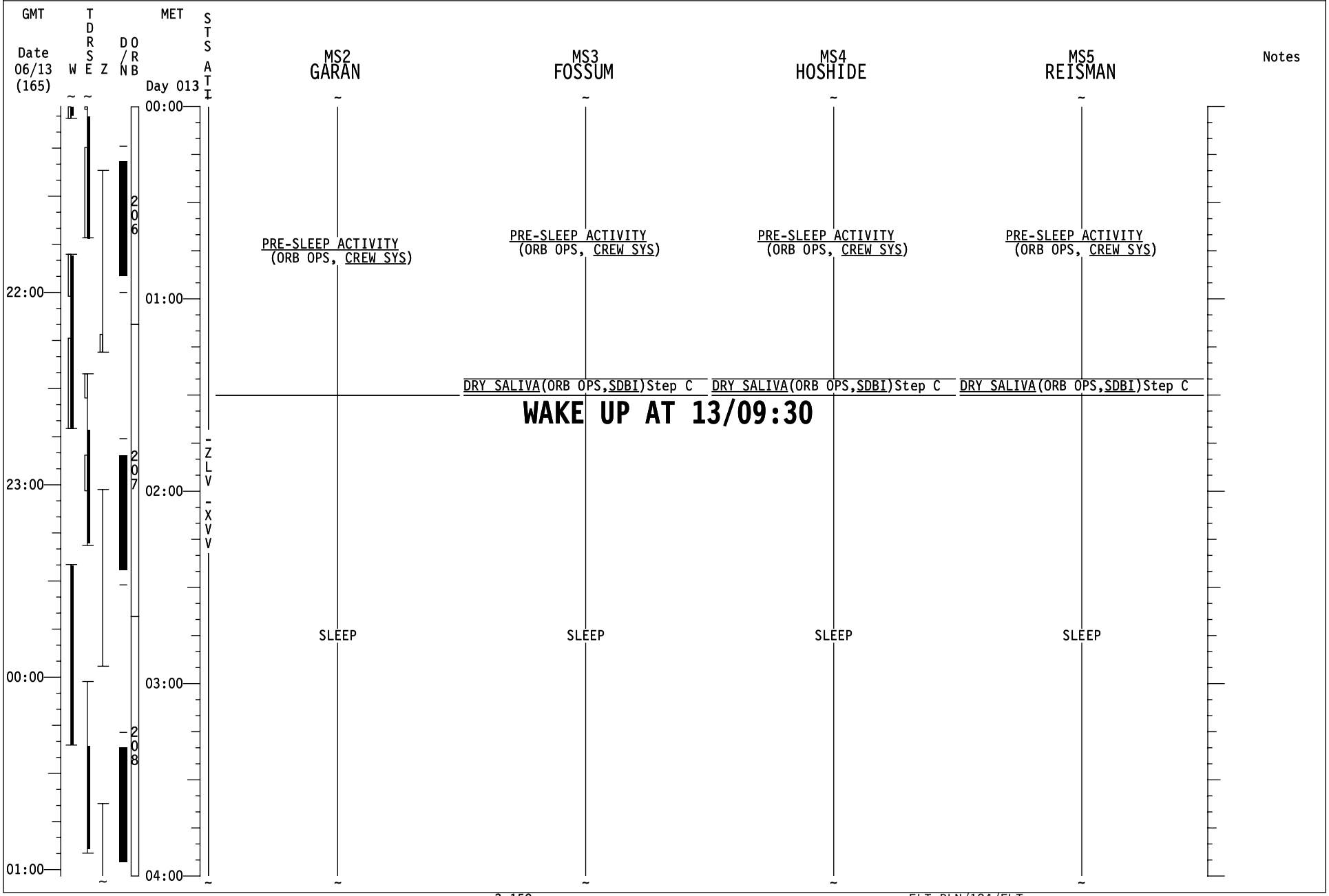

STS-124 FD14

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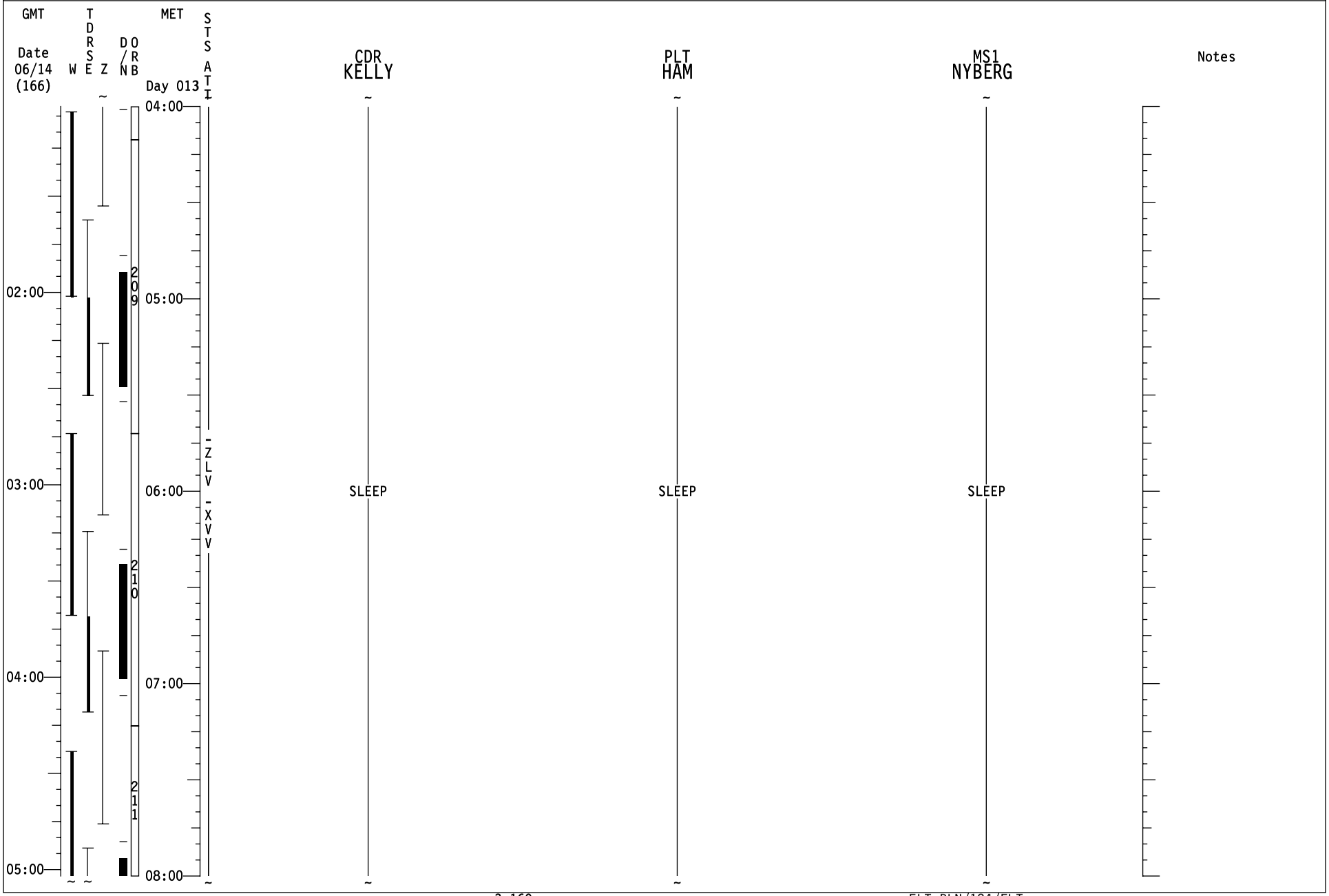
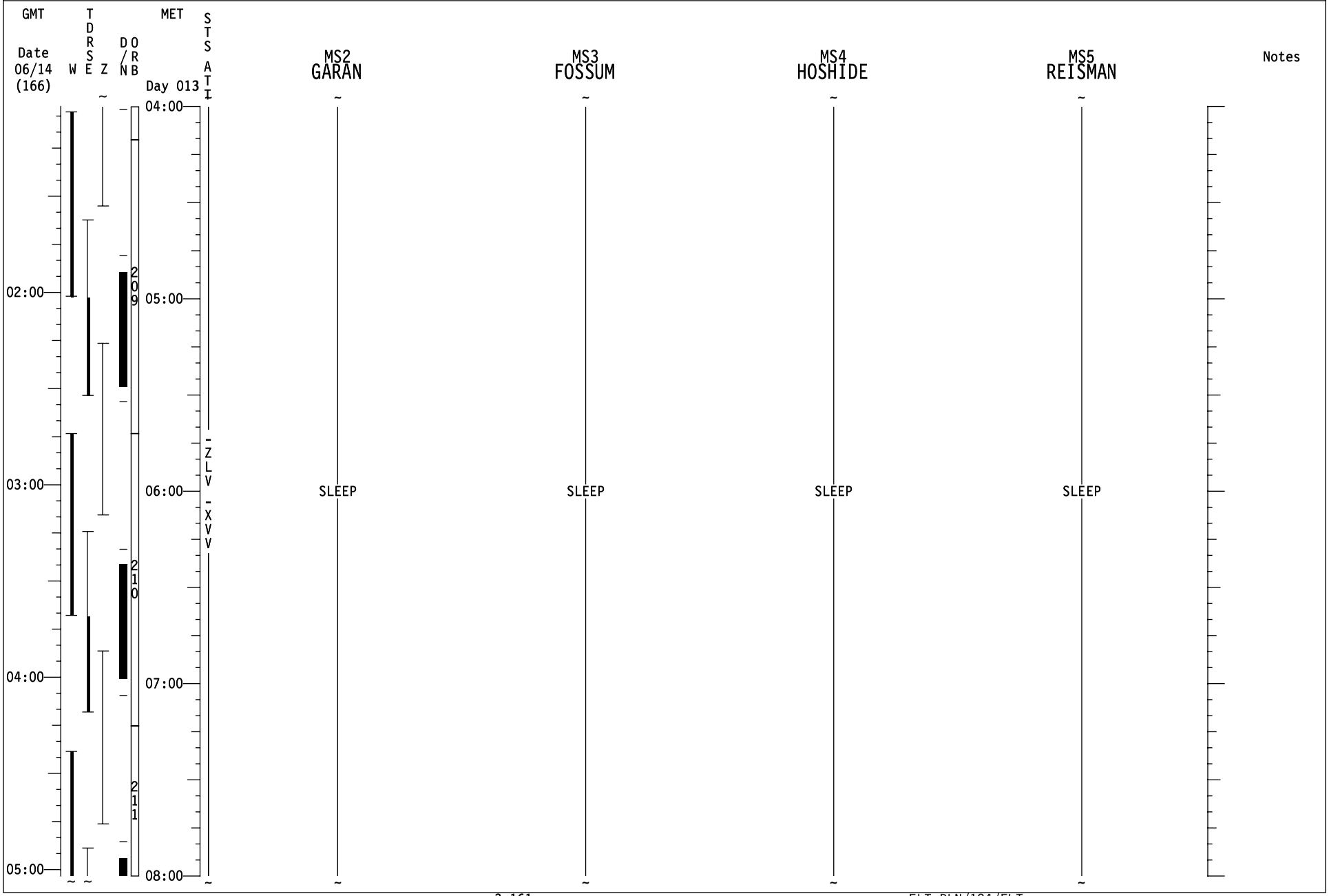


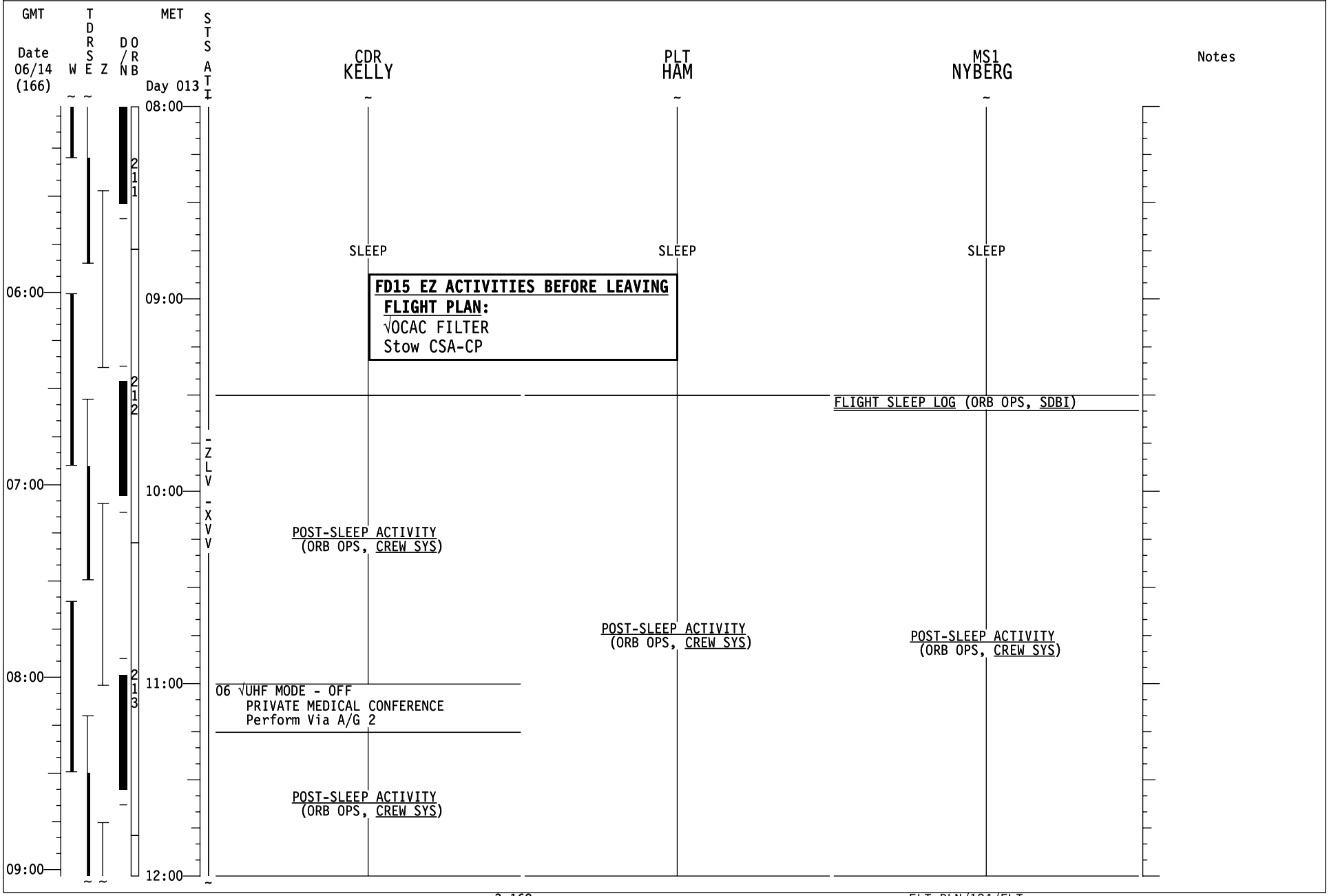
STS-124 FD14

REPLANNED



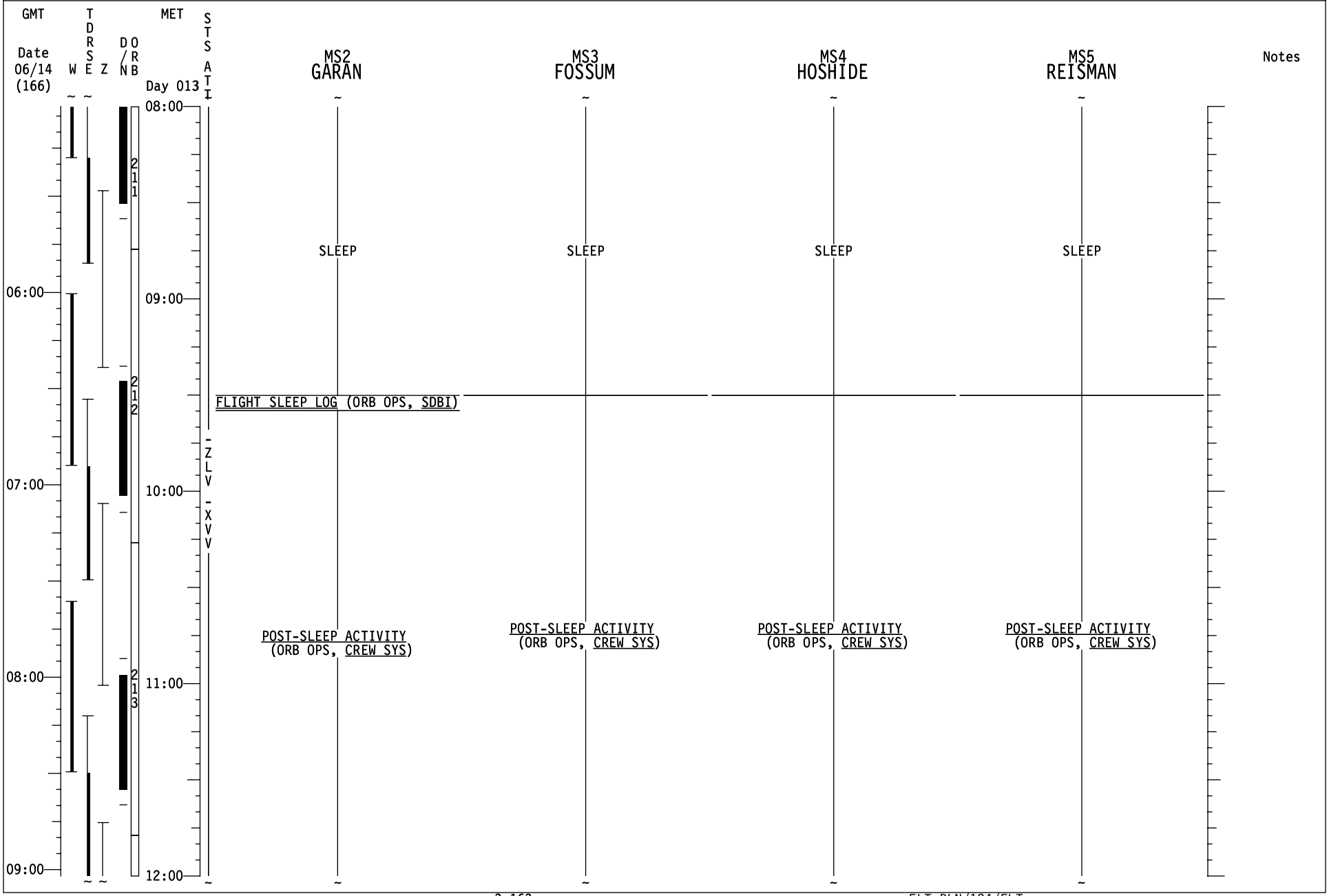
STS-124 FD15

REPLANNED



STS-124 FD15

REPLANNED



STS-124 FD15

REPLANNED

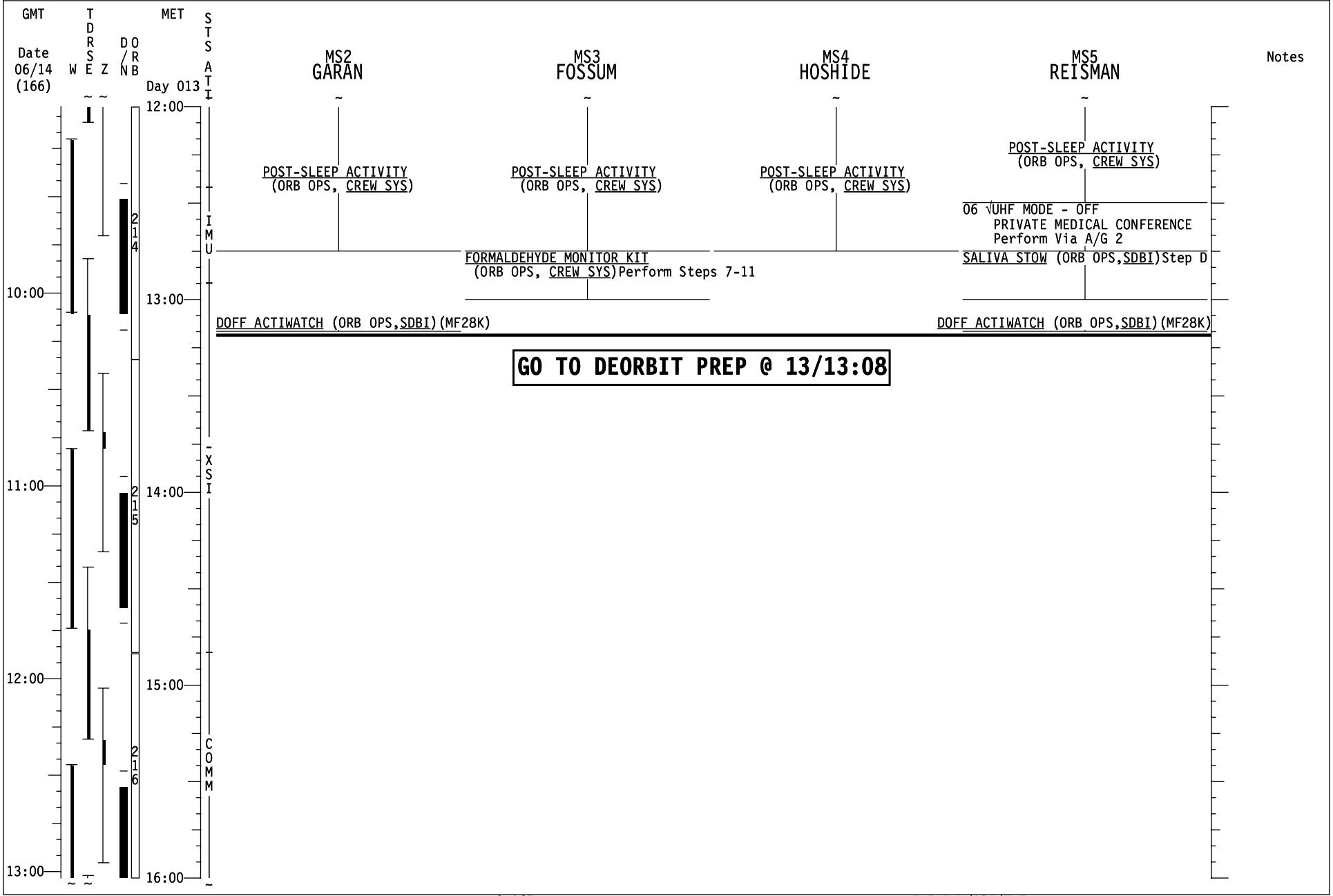
GMT Date 06/14 (166) | MET Day 013 | TDRS W E Z | DO/RNB 214 215 216 | STS ATT IMU -XSI COMM

CDR KELLY	PLT HAM	MS1 NYBERG	Notes
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	A6L MADS STRAIN GAGE - PCM ENA	
PRIORITY PWRUP GRP B (ORB PKT, PRI PWRDN) Steps 12,10,9,7,6,& 5 (Step 12:Recover IMU 3; Step 6:Dual G2)	PRIORITY PWRUP GRP B (ORB PKT, PRI PWRDN) Steps 12,10,9,7,6,& 5 (Step 12:Recover IMU 3; Step 6:Dual G2)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (MF28E)	
MNVR IMU STAR ALIGN ATT [A] (pg 3-166) A1/AUTO/VERN Init MNVR (13/12:20) IMU ALIGN - S TRK (ORB OPS, GNC) MNVR IMU VERIF ATT [B] (pg 3-166) A1/AUTO/VERN Init MNVR IMU ALIGN - S TRK (ORB OPS, GNC) Step 5	AIR SAMPLE; Rcd MET & location on bottle (MF28E) GIRA STOWAGE (ORB OPS, ECLS) (Locker: MA9J)	OCAC STOWAGE (ORB OPS, CREW SYS) (Locker: MA75J)	
MNVR (TRK) -XSI ATT TG=4 BV=5 P=184 Y=0 OM=90 A1/AUTO/VERN Init TRK		DOFF ACTIWATCH (ORB OPS,SDBI) (MF28K)	

GO TO DEORBIT PREP @ 13/13:08

STS-124 FD15

REPLANNED



REPLANNED

A IMU STAR ALIGN PAD

ID: -Y: 53, MENKENT
MET (013/12:19 TO 13/13:04)

-Z: 22, ALTAIR
MET (013/12:29 TO 13/13:16)

ANG DIFF: 92.1

DUAL S TRKR ALIGNMENT		2nd ATTITUDE (SINGLE S TRKR) -Z: 53 -Y: 22	
R 295	R	208	28
P 225	P	239	241
Y 344	Y	335	342

REQD ID:

-Y: _____, -Z: _____, ANG ERR___,___ ___

ANG:	1	2	3
ΔX	( )___,___ ___	( )___,___ ___	( )___,___ ___
ΔY	( )___,___ ___	( )___,___ ___	( )___,___ ___
ΔZ	( )___,___ ___	( )___,___ ___	( )___,___ ___

EXECUTION TIME: ___/___:___:__MET

B IMU VERIFICATION STAR ALIGN PAD

ID: -Y: 16, ACHERNAR
MET (013/12:38 TO 013/13:27)

-Z: 60, ENIF
MET (013/12:38 TO 013/13:29)

ANG DIFF: 82.2

DUAL S TRKR ALIGNMENT		2nd ATTITUDE (SINGLE S TRKR) -Z: 16 -Y: 60	
R 235	R	163	326
P 118	P	136	127
Y 313	Y	320	299

REQD ID:

-Y: _____, -Z: _____, ANG ERR___,___ ___

ANG:	1	2	3
ΔX	( )___,___ ___	( )___,___ ___	( )___,___ ___
ΔY	( )___,___ ___	( )___,___ ___	( )___,___ ___
ΔZ	( )___,___ ___	( )___,___ ___	( )___,___ ___

If any ΔX, ΔY, OR ΔZ > 0.1 Check MCC

EXECUTION TIME: ___/___:___:__MET

MSG 115 - FD14 MISSION SUMMARY

Good Morning Discovery

It's just about time to come home. We'll work the weather for tomorrow as you button things up for the trip home.

It's been a tremendous mission and the entire crew has a great deal of which to be proud.

YOUR CURRENT ORBIT IS: 190 X 181 NM

NOTAMS:

EDW – LAKEBED RUNWAY 15/33 ELS ONLY. OTHER LAKEBED RWYS RED.
NOR – LAKEBED RUNWAYS GREEN.
NTU – NGU TACAN CH CHANGED TO 86Y.
YJT – TACAN CH 78 DME ONLY.
HAW – RWY 31 CLOSED. RWY 13 TODA 8,994'.
WAK – CLOSED. NOT USABLE.
IKF – NOT USABLE. NO AGREEMENT.
BEN – NOT RECOMMENDED/NOT SUPPORTED.
ZZA – FIRST 600M (~2,000') OF RWY 30L NOT AVAILABLE. 10,200' REMAINING.

NEXT 2 PLS OPPORTUNITIES:

EDT04L ORB 203 – 12/19:53 SKC 060/5P9
EDT22R ORB 219 – 13/20:16 FEW200 220/9P16

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(%)

L OMS OX = 30.3 R OMS OX = 30.3
FU = 29.9 FU = 30.3

SUBTRACT INTERCONNECT COUNTER TO OBTAIN CURRENT OMS QUANTITIES

END OF PAGE 1 OF 2, MSG 115

MSG 115 - FD14 MISSION SUMMARY

DELTA V AVAILABLE:

OMS	314 FPS
ARCS (TOTAL ABOVE QTY1)	22 FPS
TOTAL IN THE AFT	336 FPS
ARCS (TOTAL ABOVE QTY2)	56 FPS
FRCS (ABOVE QTY 1)	15 FPS
AFT QTY 1	76 %
AFT QTY 2	38 %

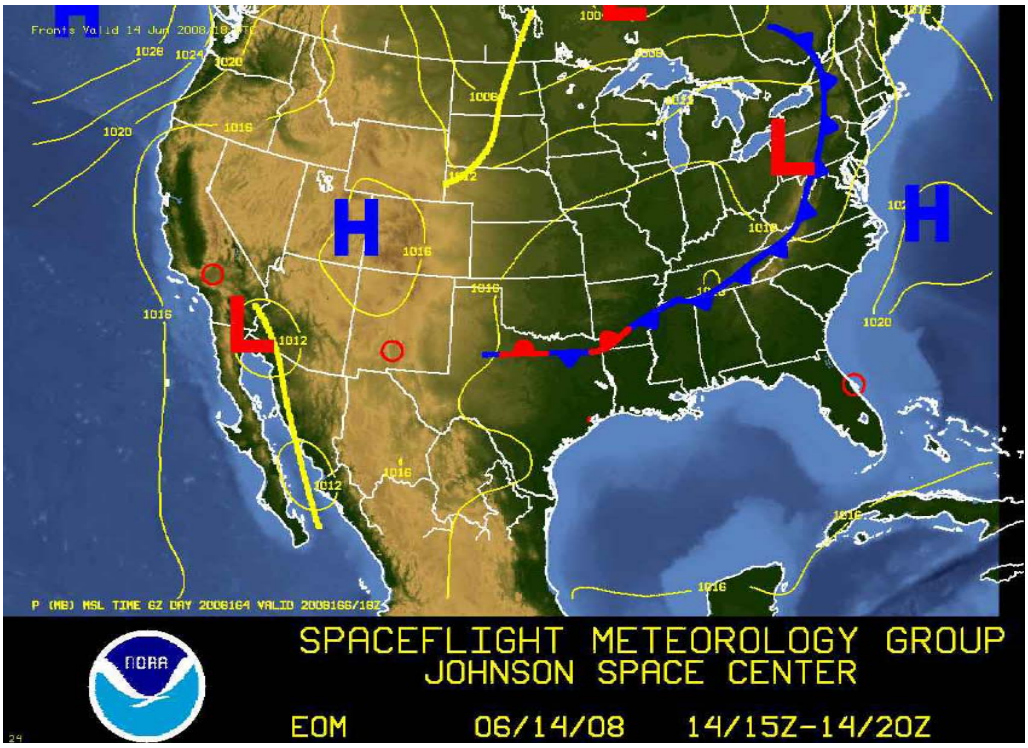
THERE ARE NO FAILURE/IMPACT/WORK AROUNDS FOR TODAY.

END OF PAGE 2 OF 2, MSG 115

The MMT met to discuss the current mission status, review the entry plan, and to discuss the end-of-mission weather forecasts. All orbiter systems continue to perform nominally and the team is looking forward to FCS checkout and RCS hotfire tomorrow. The Damage Assessment Team is almost complete with clearing all areas of the TPS for entry. Today at the MMT all tile areas were completely cleared. The process of clearing the RCC was virtually complete with just the final detailed quality assurance checks remaining. We expect to notify you in the middle of the crew day tomorrow that the vehicle has been completely cleared for entry.

Orbiter system Status: The vehicle continues to perform well with the team continuing to monitor higher than normal drift on the IMU 1 z-axis. The team will continue to uplink IMU drift compensations and believes there are no issues for entry with this IMU.

Entry Weather: The weather outlook for Saturday, June 14 is favorable. The following figures summarize the CONUS weather forecast for End-of-Mission.



CONUS DAY 2 LANDING FORECASTS

STS-124

ISSUED: Thursday Jun. 12, 2008 1400Z
Thursday Jun. 12, 2008 0900CDT

KSC	Valid: Saturday Jun 14 1515 UTC Valid: Saturday Jun 14 1015 CDT		
	FEW035	7 SM	04004P06 KT RWY 15/33 X=5 H/T=3
KSC	Valid: Saturday Jun 14 1650 UTC Valid: Saturday Jun 14 1150 CDT		
	SCT035	7 SM	09007P12 KT
	SLGT CHC SHRA WI 30 NM		RWY 15/33 X=11 H/T=5
EDW	Valid: Saturday Jun 14 1820 UTC – 1956 UTC Saturday Jun 14 1320 CDT – 1456 CDT		
	FEW200	7 SM	24012P20 KT RWY 22/04 X=5 H/T=19
NOR	Valid: Saturday Jun 14 1647 UTC – 1822 UTC Saturday Jun 14 1147 CDT – 1322 CDT		
	SKC	7 SM	20006P10 KT RWY 17/35 X=4 H/T=9

MSG 118 - ENTRY DAY FLUID LOADING

Fluid loading water for one Entry opportunity should be pulled today. Fluid loading for a one orbit waveoff is not required to be pulled until waveoff is declared. Pulling water for fluid loading on EOM-1 will help maximize Supply Water quantities to support maximal deorbit landing opportunities.

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, or 8 ounces of Chicken Consommé every 15 minutes. Fluid loading must be completed by Entry Interface (EI).

CREWMEMBER	FLUID	TOTAL # OF SALT TABLETS
CDR (Kelly)	40 oz Water	10 Salt Tablets
PLT (Ham)	32 oz Water 8 oz Lemon-Lime Ade	8 Salt Tablets
MS1 (Nyberg)	32 oz Water	8 Salt Tablets
MS2 (Garan)	24 oz Water 16 oz Lemon-Lime Ade	6 Salt Tablets
MS3 (Fossum)	16 oz Water 8 oz Orange Ade 24 oz Chicken Consommé	4 Salt Tablets
MS4 (Hoshide)	32 oz Water	8 Salt Tablets
MS5 (Reisman)	16 oz Water 24 oz Orange Ade	4 Salt Tablets

Note: Chicken Consommé is only available in 12 oz. Servings. Prepackaged volume may exceed prescribed quantity.

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

CREWMEMBER	FLUID	TOTAL # OF SALT TABLETS
CDR (Kelly)	24 oz Water	6 Salt Tablets
PLT (Ham)	16 oz Water 8 oz Lemon-Lime Ade	4 Salt Tablets
MS1 (Nyberg)	16 oz Water	4 Salt Tablets
MS2 (Garan)	24 oz Water	6 Salt Tablets
MS3 (Fossum)	24 oz Water	6 Salt Tablets
MS4 (Hoshide)	16 oz Water	4 Salt Tablets
MS5 (Reisman)	8 oz Water 16 oz Orange Ade	2 Salt Tablets

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

END OF PAGE 1 OF 2, MSG 118

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.