STS-120 / 10A

FD 15 Execute Package

MSG	Page(s)	Title
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173	13 - 14	FD15 Mission Summary **(doc)**
174	15 - 16	FD14 MMT Summary **(doc)**
175	---	FD15 PAO Event Summary **(doc - Electronic Only)**
176A	17	Increased Middeck Air Circulation **(doc)**
177	18 - 19	Entry Day Fluid Loading and Anti-G Suit Ops **(doc)**
178	---	Sunday Funnies **(pdf – Electronic Only)**

Approved by FAO: *F F Reynolds*

Last Updated: Nov 6 2007 5:09AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX

MSG NO.	TITLE
172	FD15 Flight Plan Revision
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178	Sunday Funnies

1. **CWC Dump Equipment Gather Details:**
   In preparation for the upcoming CWC water dump activity, you'll need to pregather the following equipment prior to the dumps:
   a. CWCs: Leaking Potable CWC S/N 1006, Condensate CWC S/N 5104, and Condensate CWC S/N 5057
   b. Y-Y hose from Contingency Hose and Cable Kit (CHCK) in the window shade bag. Use shorter hose previously used for FD9 CWC Dump.
   c. Waste Water Dump (WWD) Filter from Break out box locker (MF28E)

   Prior to dumping leaking CWC s/n 1006, take a photo of the external canvas in the area suspected of leaking and of any areas where canvas appears damaged. When initially reported, the bag was wettest near the end with the fittings, at the decals.

2. **Condensate CWC Dump Details:**
   First, dump leaking potable CWC S/N 1006, then dump condensate CWC S/Ns 5104 and 5057 using CWC OVERBOARD DUMP (ORB OPS, ECLS) p. 5-32. MCC will TMBU limits in steps B and H.

   Nozzle open time for S/N 1006 will depend on how much water is left in the bag, but should be ~63 minutes. Nozzle open time will be ~55 minutes each for S/N 5104 and S/N 5057.

   Once the CWC dumps are complete, stow the WWD in a separate Ziploc bag in the BOB. Stow the Y-Y hose in a separate Ziploc bag and stow in the CHCK.

   Post dump, one empty condensate CWC can be stowed in MF71M and the other can be stowed in MF43M. Leaking potable CWC S/N 1006 should be placed back in the Russian bag and secured with grey tape. Stow the Russian bag in the MF43M.

3. If you think that Middeck Air Ventilation needs to be increased reference MSG 176.

4. Prior to Ku Stow this afternoon, we will downlink your Outlook Personal Folders so that you may have them when you return to Houston. Please move any messages that you would like to keep out of your INBOX, SENT ITEMS and WORK RELATED folders and into your Personal Folder before MET 14/ 04:00. We will also perform one final mail synch 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 KU stow.

5. Messages in the execute package have been uplinked as Word documents. This will allow you to change the font's color, if necessary, so that you may print in whatever color works best with the printer.

6. REPLACE PAGES 2-54, 2-55, AND 3-166 THROUGH 3-173.

11/05/07 23:06:04 **REPLANNED**

GMT 11/06/07 (310) β = -51 MET Day 013

04 05 06 07 08 09 10 11 12 13 14 15 12 13 14 15 16 17 18 19 20 21 22 23 014/00

STS-120

FD15																	
CDR MELROY	SLEEP	LOG	POST SLEEP	FCS C/O	RCS H/F	MRVW	CABIN STOW	FES*	MAUI	-ZLV -XVV	MFNVS-I	PAO	EVENT	MEAL
PLT ZAMKA	SLEEP	LOG	POST SLEEP	W/B*	POST SLEEP	FCS C/O	RCS H/F	MRVW	FILTER CLEANING	EXERCISE	MAUI	CSATOW CABIN	CWC*	PAO	EVENT	MEAL
MS1 PARAZYNSKI	SLEEP	LOG	POST SLEEP	CABIN STOW	EXERCISE	UNSTOWD	BLOOD	BPOSOD	STOW	CABIN STOW	PAO	EVENT	MEAL
MS2 WILSON	SLEEP	LOG	POST SLEEP	DCS	FCS C/O	RCS H/F	CABIN STOW	PAO P/TV S/U	PAO	EVENT	MEAL
MS3 WHEELOCK	SLEEP	LOG	POST SLEEP	CABIN STOW	WLEAS	DEACT	EXERCISE	PAO	EVENT	MEAL
MS4 NESPOLI	SLEEP	LOG	SALVA	POSTEP	SALVA	POST SLEEP	FRED STOW	CABIN STOW	SALVA	BDRAOW BLOOD	CABIN STOW	PAO	EVENT	MEAL
MS5 ANDERSON	SLEEP	LOG	POST SLEEP	EXERCISE	CABIN STOW	PAO	EVENT	MEAL

DAY/NIGHT

ORBIT: 214 215 216 217 218 219 220 221

TDRS: W -171, E -46, Z -275

ORB ATT: -ZLV -XVV — MAUI — -ZLV -XVV

GND: MLA; WSS -DFR -MLA MLA; WSS DFR; WSS DFR

NOTES: *HEATER ACT; *OFF; *FUTURE LOAD; *GATHER CWC EQUIP

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11/05/07 23:06:04 **REPLANNED**

GMT 11/06/07 (310) 16 17 18 19 20 21 22 23 11/07 01 02 03
β = -51 014/00 01 02 03 04 05 06 07 08 09 10 11 12
MET Day 014

STS-120

FD15

Crew	Activities
CDR MELROY	MEAL; D/O BRIEF; EXERCISE; IMU; L-1 COMM; CABIN STOW; L-1 COMM*; OAΔ OA OMS BURN; MNVR*; PILOT OPS; PRE SLEEP; PMC A/G; PRE SLEEP; SLEEP
PLT ZAMKA	MEAL; D/O BRIEF; CWC DUMP; OA OMS BURN; PILOT OPS; KU STO; PRE SLEEP; SLEEP
MS1 PARAZYNSKI	MEAL; D/O BRIEF; CABIN STOW; RCMBNT SEAT S/U; LAUNCH ENTRY SUIT CK; PRTNTR; STOW; PGSC; DEACT; PRE SLEEP; SLEEP
MS2 WILSON	MEAL; D/O BRIEF; PILOT S/U; FES-T; EXERCISE; CABIN STOW; MADS; CABIN STOW; PILOT OPS; PRE SLEEP; SLEEP
MS3 WHEELOCK	MEAL; D/O BRIEF; CABIN STOW; ERG STOW; RCMBNT SEAT S/U; PRE SLEEP; SLEEP
MS4 NESPOLI	MEAL; D/O BRIEF; ENTRY VIDEO; SSV DEACT; SALVA; EXERCISE; CABIN STOW; PRE SLEEP; SALVA; STOW; PRE SLEEP; SLEEP
MS5 ANDERSON	MEAL; D/O BRIEF; CABIN STOW; ERG STOW; CABIN STOW; LAUNCH ENTRY SUIT CK; PRE SLEEP; SLEEP

DAY/NIGHT

ORBIT: 222 223 224 225 226 227 228 229

TDRS: W -171, E -46, Z -275

ORB ATT: BIAS +ZLV -YVV; OA; -ZLV -XVV

GND: DFR; WSS, WSS, DFR, MLA; WSS, DFR, MLA, MLA; WSS, DFR

NOTES: *WSS/DFR; *-ZLV -XVV

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STS-120 FD 15

REPLANNED

GMT Date 11/06 (310) | W | TDRSE | Z | ORB | MET Day 013 | STS ATI

CDR MELROY | PLT ZAMKA | MS1 PARAZYNSKI | Notes

16:00 — FLIGHT SLEEP LOG (ORB OPS, SDBI) — FLIGHT SLEEP LOG (ORB OPS, SDBI) — FLIGHT SLEEP LOG (ORB OPS, SDBI)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) — POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) — POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

08:00 — 216

FD15 EZ ACTIVITIES

OCAC Filter Inspect
Hard Reboot PGSCs (Except RPOP and RPOP2)
FLUID LOADING PREP
Fill drink containers per MSG 177

On MCC Go:
ML86B:C cb MNA EXT ARLK HTR LINE ZN 1,2(two) - op
cb MNB EXT ARLK HTR LINE ZN 1,2(two) - cl
cb MNB EXT ARLK HTR VEST Z1/2/3 - op

17:00 — 217

09:00

W/B STEAM VENT HTR ACT
R2 √BLR CNTLR/HTR(three) -B
PWR (three) -ON
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

18:00 — -ZLV -XVV

FD15 CABIN STOW ACTIVITIES

- Remove loose items stored in A/L
- Perform SEAT INSTALLATION
- Perform ENTRY STOWAGE (FLTS W/RETN NET) (REF DATA, ENT STOW)

10:00 — 218

FCS CHECKOUT (ORB OPS, GNC) — FCS CHECKOUT (ORB OPS, GNC)

UPLINK TFL 161

19:00

11:00 — 219

CABIN CONFIG/STOW

20:00 — RCS HOT FIRE TEST (ORB OPS, RCS) — RCS HOT FIRE TEST (ORB OPS, RCS)

UPLINK TFL 188

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STS-120 FD 15

REPLANNED

GMT Date 11/06 (310) | TDRS W E Z | ORB 216 217 218 219 | MET Day 013 | STS ATI -ZLV -XVV

MET	MS2 WILSON	MS3 WHEELOCK	MS4 NESPOLI	MS5 ANDERSON	Notes
16:00	FLIGHT SLEEP LOG (ORB OPS,SDBI)	FLIGHT SLEEP LOG (ORB OPS,SDBI)	FLIGHT SLEEP LOG (ORB OPS,SDBI)	FLIGHT SLEEP LOG (ORB OPS,SDBI)	
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	LIQ&DRY SALIVA SMPL(ORB OPS,SDBI)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
08:00			DRY SALIVA SAMPLE(ORB OPS,SDBI)		
			POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
17:00					
09:00					
18:00					
10:00	DATE/TIME SET FOR DCS 760 S/N 1016	Ref. MSG 122			
	FCS CHECKOUT (ORB OPS, GNC)				
19:00			FRED STOWAGE (ORB OPS, FRED)		
11:00		CABIN CONFIG/STOW		EXERCISE	
			CABIN CONFIG/STOW		
20:00	RCS HOT FIRE TEST (ORB OPS, RCS)				

STS-120 FD 15

REPLANNED

GMT Date 11/06 (310) | W | TDRSE | Z | ORB | MET Day 013 | STS ATI | CDR MELROY | PLT ZAMKA | MS1 PARAZYNSKI | Notes

Time	CDR MELROY	PLT ZAMKA	MS1 PARAZYNSKI
20:00	RCS HOT FIRE TEST (ORB OPS, RCS)	RCS HOT FIRE TEST (ORB OPS, RCS)	
	MAUI PROCEDURE REVIEW	MAUI PROCEDURE REVIEW	CABIN CONFIG/STOW
12:00		FILTER CLEANING (IFM, SCHEDULED MAINTENANCE)	
21:00	CABIN CONFIG/STOW		EXERCISE
13:00		EXERCISE	SETUP FOR BLOOD SAMPLE COLLECTION (ORB OPS, SDBI)
			PERFORM BLOOD SAMPLE COLLECTION (ORB OPS, SDBI)
22:00	L1 FLASH EVAP CNTLR PRI A -OFF		STOW HARDWARE (ORB OPS, SDBI)
14:00	MAUI PROCEDURE - PRCS (ORB OPS, MAUI) √PL Bay floods & camera illuminators OFF Perform step 1 no later than 22:12	MAUI PROCEDURE - PRCS (ORB OPS, MAUI) √PL Bay floods & camera illuminators OFF Perform step 1 no later than 22:12	
	MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A/AUTO/VERN Init TRK	CABIN CONFIG/STOW	CABIN CONFIG/STOW
	FUTURE LOADED MNVR A		
23:00	SUPPLY WATER DUMP USING FES (ORB OPS,ECLS)Step 1,using FES PRI A	GATHER CWC DUMP EQUIPMENT Ref. MSG 172, Item 1	
15:00	PUBLIC AFFAIRS EVENT KU: 23:02-23:30, TDRE	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT
00:00	MEAL	MEAL	MEAL

A FUTURE LOADED MNVR
TG=2 BV=5 P=270 Y=0 OM=70
A/AUTO/VERN (14/00:40) Init TRK

7

STS-120 FD 15

REPLANNED

GMT Date 11/06 (310) | W | TDRSE | Z | ORB | MET Day 013 | STS ATT | MS2 WILSON | MS3 WHEELOCK | MS4 NESPOLI | MS5 ANDERSON | Notes

20:00 — 21:00 — 22:00 — 23:00 — 00:00

12:00 — 13:00 — 14:00 — 15:00

219 — 220 — 221

STS ATT: -ZLV -XVV — MAUI — -ZLV -XVV

MS2 WILSON	MS3 WHEELOCK	MS4 NESPOLI	MS5 ANDERSON
RCS HOT FIRE TEST (ORB OPS, RCS)			
	CABIN CONFIG/STOW	CABIN CONFIG/STOW	EXERCISE
CABIN CONFIG/STOW			
	WLES DEACTIVATION AND TEARDOWN (ORB OPS, WLE SENSORS)	DRY SALIVA SAMPLE (ORB OPS, SDBI) PERFORM BLOOD SAMPLE COLLECTION (ORB OPS, SDBI) Subject	
			CABIN CONFIG/STOW
	EXERCISE	CABIN CONFIG/STOW	
ANALOG PAO CC (PHOTO/TV, SONY PD100)			
PUBLIC AFFAIRS EVENT KU: 23:02-23:30, TDRE	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT
MEAL	MEAL	MEAL	MEAL

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STS-120 FD 15

REPLANNED

GMT Date 11/06 (310) | W | TDRSE | Z | ORB | MET Day 014 | STS ATT | CDR MELROY | PLT ZAMKA | MS1 PARAZYNSKI | Notes

16:00 | 17:00 | 18:00 | 19:00

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

222 | 223 | 224

BIAS + ZLV - YVV

CDR MELROY	PLT ZAMKA	MS1 PARAZYNSKI
MEAL	MEAL	MEAL
DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING
	CWC OVERBOARD DUMP (ORB OPS, ECLS) Ref. MSG 172, Item 2	
EXERCISE		
IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)		
LANDING-1 COMM C/O (ORB OPS, COMM/INST) MLA: AOS 02:02 LOS 02:06		
		CABIN CONFIG/STOW
CABIN CONFIG/STOW		
LANDING-1 COMM C/O (ORB OPS, COMM/INST) DFR: AOS 03:30 LOS 03:33 WSS: AOS 03:31 LOS 03:37		
		RECUMBANT SEAT KIT (RSK) INSTALL (ORB OPS, CUE CARD)
ON-ORBIT OMS BURN (ORB OPS, OMS)	ON-ORBIT OMS BURN (ORB OPS, OMS)	

Notes: UPDATE ORBITAL MNVR PAD

STS-120 FD 15

REPLANNED

GMT Date 11/06 (310) | W | TDRSE | Z | ORB | MET Day 014 | STS ATI | MS2 WILSON | MS3 WHEELOCK | MS4 NESPOLI | MS5 ANDERSON | Notes

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

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

222 223 224

BIAS + ZLV - YVV

MS2 WILSON	MS3 WHEELOCK	MS4 NESPOLI	MS5 ANDERSON
MEAL	MEAL	MEAL	MEAL
DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING
PILOT WITH RHC (ORB OPS, PGSC) S/U		ENTRY VIDEO (PHOTO/TV, MINI-CAM) Perform SETUP	
On MCC call, SUPPLY WATER DUMP USING FES (ORB OPS,ECLS)Step 2 w/FES PRI A req'd		SSV DEACTIVATION (PHOTO/TV, SSV)	
EXERCISE	CABIN CONFIG/STOW	DRY SALIVA SAMPLE (ORB OPS, SDBI)	CABIN CONFIG/STOW
		EXERCISE	
CABIN CONFIG/STOW	CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) Perform RECONFIG/STOW		CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) Perform RECONFIG/STOW
		CABIN CONFIG/STOW	
	RECUMBANT SEAT KIT (RSK)INSTALL (ORB OPS, CUE CARD)		
C3 MASTER MADS POWER - ON A6L MADS STRAIN GAGE - ON CABIN CONFIG/STOW			CABIN CONFIG/STOW

STS-120 FD 15

REPLANNED

GMT Date 11/06 (310) | W | TDRSE | Z | ORB | MET Day 014 | STS ATT | CDR MELROY | PLT ZAMKA | MS1 PARAZYNSKI | Notes

04:00 — 05:00 — 06:00 — 07:00 — 08:00

20:00 — 21:00 — 22:00 — 23:00

224 — 225 — 226 — 227

STS ATT: OA — -ZLV -XVV

CDR MELROY

ON-ORBIT OMS BURN
(ORB OPS, OMS)

< OA TIG (14/04:16)

MNVR (TRK) -ZLV -XVV [A]

PILOT WITH RHC
(ORB OPS, PGSC)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRIVATE MEDICAL CONFERENCE
06 √UHF MODE - OFF

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PLT ZAMKA

ON-ORBIT OMS BURN
(ORB OPS, OMS)

PILOT WITH RHC
(ORB OPS, PGSC)

KU-BD ANT STOW (ORB OPS, COMM/INST)
Deactivate CCTV

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS1 PARAZYNSKI

RECUMBANT SEAT KIT (RSK) INSTALL
(ORB OPS, CUE CARD)

LAUNCH ENTRY SUIT CHECK
Verify Fit

COLOR PRINTER STOW
(ORB OPS, PGSC)

PGSC DEACT
(ORB OPS, PGSC)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Notes

UPDATE
ORBITAL MNVR PAD

[A] TG=2 BV=3 OM=0
A/AUTO/VERN Init TRK

ENTRY COOLING CONFIG PRIOR TO PRESLEEP
R12 √VPU PWR - OFF (LED off)
Minimize use of P/TV Equipment
Dim cabin lighting 25%

CREW WAKE AT 14/16:00

STS-120 FD 15

REPLANNED

GMT Date 11/06 (310) | W | TDRSE | Z | ORB | MET Day 014 | STS ATTTOA | MS2 WILSON | MS3 WHEELOCK | MS4 NESPOLI | MS5 ANDERSON | Notes

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

04:00 05:00 06:00 07:00 08:00

224 225 226 227

-ZLV -XVV

MS2 WILSON

CABIN CONFIG/STOW

PILOT WITH RHC (ORB OPS, PGSC)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS3 WHEELOCK

RECUMBANT SEAT KIT (RSK)INSTALL (ORB OPS, CUE CARD)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS4 NESPOLI

CABIN CONFIG/STOW

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

DRY SALIVA SAMPLE (ORB OPS, SDBI)

STOW HARDWARE (ORB OPS, SDBI)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS5 ANDERSON

CABIN CONFIG/STOW

LAUNCH ENTRY SUIT CHECK Verify Fit

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

CREW WAKE AT 14/16:00

Good Morning Discovery!!!

Congratulations on a spectacular fly around yesterday!

Have a good day today getting ready to come home tomorrow!

Happy landing!!!

YOUR CURRENT ORBIT IS: 188 X 181 NM

NOTAMS:

EDW – RWY 15/33 ELS ONLY. RWY 18L – CLOSED.
NOR – GREEN.
WAL – RWY 04/22 CLOSED.
NTU – RWY 23L CLOSED 1100 - 2300 MON THRU FRI.
RWY 32L/14R CLOSED.
RWY 05R FIRST 3000' CLOSED, 8997' REMAINING.
NKT – FIRST 1000' OF RWY 23L & 32R CLOSED.
LAJ – REQUIRES 30 MIN. NOTICE TO CLEAR RWY 2300-0900Z DAILY EXCEPT SUNDAY.
FFA – NOT SUPPORTED.
JDG – DIEGO GARCIA: CLOSED 1800 - 0100Z.
WAK – UNUSABLE.
AMB – UNUSABLE.
IKF – NO AGREEMENT FOR USE.
AWG – NO AGREEMENT FOR USE.
BEN – POLITICALLY NOT RECOMMENDED/NOT SUPPORTED.

NEXT 2 PLS OPPORTUNITIES:

EDW04 ORB 223 – 14/02:42 (SCT250 060/06P12)
KSC33 ORB 238 – 15/01:25 (SCT030 350/14P23)

OMS TANK FAIL CAPABILITY:

L OMS FAIL: NO R OMS FAIL: NO

LEAKING OMS PRPLT BURN:

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

OMS QUANTITIES(%)

L OMS OX = 25.6 R OMS OX = 25.4
FU = 25.1 FU = 25.4

SUBTRACT I'CNCT COUNTER FOR PREDICTED POST-ORBIT ADJUST OMS QUANTITIES

DELTA V AVAILABLE:

OMS	237 FPS
ARCS (TOTAL ABOVE QTY1)	40 FPS
TOTAL IN THE AFT	277 FPS
ARCS (TOTAL ABOVE QTY2)	74 FPS
FRCS (ABOVE QTY 1)	0 FPS
AFT QTY 1	66 %
AFT QTY 2	28 %

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

FD 14 MMT Summary

The MMT met to discuss the current mission status and to review the entry plan including a preliminary look at the weather forecasts. Discovery's systems continue to perform nominally, and the teams are looking forward to FCS Checkout and RCS Hotfire tomorrow. Additionally, your tremendous work in continuing the ISS assembly is greatly appreciated by both the Shuttle and ISS Programs. The flyaround gave all of us a great view of the ISS with a fully functional P6 in its permanent location. Pending a nominal late inspection and good FCS Checkout tomorrow, the MMT will be GO for deorbit and landing.

Orbiter Systems Status - The MMOD impact to window #2 was cleared based on conservative analysis performed during STS 118 for a MMOD impact of similar magnitude and to the same window. Also, the LCS checked out during today's Late Inspection and is fully functional. The late inspection data is being reviewed overnight and results will be available tomorrow after your lunch. The on console team will read those up to you as soon as they are available.

Entry Plan - Entry Flight Director/Bryan Lunney briefed the entry plan at today's MMT. The limiting orbiter consumable will be supply water with at least 7 deorbit opportunities available over 3 days. The remaining orbiter consumables will support EOM +3 with at least 2 opportunities per day. The plan is to target two KSC opportunities for EOM on orbits 238 and 239. In the event of an EOM wave-off, EDW may be considered on EOM+1 pending the latest weather forecast and all three sites (KSC, EDW, NOR) will be activated on EOM+2.

Entry Landing Site/Weather - All three landing sites are ready with nominal convoy support, landing aids, and navigation aids. Both the EDW and NOR lakebeds are green. A dry front will pass through KSC early Wednesday morning. This front is forecast to leave behind dry, cool air and a GO forecast with a head wind of 14P23 knots on KSC runway 33. EOM+1 has a GO forecast for EDW and NOR while KSC has a chance of precipitation and a chance of ceilings. EOM+2 has a GO forecast for KSC and NOR while EDW has a slight chance for virga.

End of Mission (EOM)

STS–120

ISSUED: Monday Nov. 05, 2007 1500Z
Monday Nov. 05, 2007 0900CST

KSC	Valid: Wednesday Nov 07 1802 UTC – 1936 UTC		
	Wednesday Nov 07 1202 CST – 1336 CST		
	FEW030	7 SM	34014P23 KT
			RWY 15/33 X=2 H/T=23
EDW	Valid: Wednesday Nov 07 1929 UTC – 2103 UTC		
	Wednesday Nov 07 1329 CST – 1503 CST		
	SCT120 BKN250	7 SM	06008P12 KT
			RWY 22/04 X=3 H/T=12
NOR	Valid: Wednesday Nov 07 1756 UTC – 2105 UTC		
	Wednesday Nov 07 1156 CST – 1505 CST		
	BKN250	7 SM	24004P08 KT
			RWY 17/35 X=7 H/T=4

Figure 1 - EOM Weather Forecast

If you think that Middeck Air Ventilation needs be increased, perform the following to reactivate the Airlock Booster Fan:

MDDK 1. Disconnect bypass duct from Aft Middeck floor fitting.

EXT A/L 2. Remove Cap from Airlock Fan outlet.
Temporarily stow.
Attach bypass duct to Airlock Fan outlet.

3. Unstow inlet duct from tunnel extension wall.
Attach one end to Airlock fan muffler inlet.

MDDK 4. Attach free-end inlet duct to Aft Middeck floor fitting.

5. Remove mylar sleeve/tape from outer screen of Fwd Middeck Diffuser and stow in Ziploc bag in MF28G tray 1 (IFM tool locker).

MA73C:G 6. Verify cb AC 1, 2 ARLK TNL FAN A, B (six) - cl

MO13Q 7. ARLK FAN A(B) – ON

If the Booster fan is activated, make the following delta to Block 3A in <u>DEORBIT PREP</u> (D/O PREP, <u>NOMINAL D/O PREP</u>) p. 1-32:

Change Step 2 to the following:

TNL EXT 2. Disconnect bypass duct from Airlock Fan outlet and strap to Tunnel Extension Wall. Install cap on Airlock Fan outlet

Disconnect Airlock fan inlet duct from Aft Middeck floor fitting.

Disconnect other end of Airlock fan inlet duct from Airlock fan muffler inlet and stow duct on tunnel extension wall.

Change Step 4 to the following:

MDDK 4. Unstow, install diffuser cap (in closed position) on Aft Middeck Floor fitting.

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 (Melroy)	32 oz - Water	8
PLT (Zamka)	24 oz - Chicken Consommé 16 oz - Orange Ade	0
MS1 (Parazynski)	48 oz - Chicken Consommé	0
MS2 (Wilson)	24 oz - Chicken Consommé 8 oz - Orange Ade	0
MS3 (Wheelock)	48 oz - Chicken Consommé	0
MS4 (Nespoli)	24 oz - Chicken Consommé 16 oz - Water **PLUS** **either an additional 8 oz of Chicken Consommé** **-or-** **8 oz water with 2 additional salt tabs**	4
MS5 (Anderson)	24 oz - Chicken Consommé 16 oz - Grape Drink w/ A/S 8 oz - Tropical Punch w/ A/S	6

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 (Melroy)	16 oz - Water	4
PLT (Zamka)	12 oz - Chicken Consommé 8 oz - Orange Ade	0
MS1 (Parazynski)	24 oz - Chicken Consommé	0
MS2 (Wilson)	8 oz - Chicken Consommé 8 oz - Orange Ade	0
MS3 (Wheelock)	24 oz - Chicken Consommé	0
MS4 (Nespoli)	12 oz - Chicken Consommé 8 oz - Water PLUS **either an additional 4 oz of Chicken Consommé** **-or-** **4 oz water with 1 additional salt tablet**	2
MS5 (Anderson)	24 oz - Chicken Consommé	0

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.

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.