STS-122 / 1E

FD 09 Execute Package

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075	14	FD08 MMT Summary **(pdf)**
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077A	17 - 21	Bag A (BMRRM) Return Config **(pdf)**
078	---	Crew Choice Event Summary – ESA Council Meeting **(pdf - Crew Confidential)**
079	22 - 23	LiOH Cue Card **(pdf)**

Approved by FAO: *Jennifer Clevenger*
Last Updated: Feb 15 2008 7:53AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

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MSG INDEX

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078	Crew Choice Event Summary – ESA Council Meeting (16-1047)
079	LiOH Cue Card

1. Last night, the KFX PGSC (STS-3) fell off the network. We have uplinked the Execute Package information to the Worldmap PGSC (STS-4). Messages will not be accessible through the web page until the KFX PGSC is up and running, and all messages have been transferred to that machine. In addition, an overnight mail sync was not able to be completed. If you need to view or print out additional copies of any messages, please look in the following locations on STS-4:

   - Messages: C:\oca-up\messages
   - Transfer List: C:\oca-up\transfer
   - News From Home: C:\oca-up\news

2. Leo and Hans: Your short conversation with ESA Council is confirmed from 9:30 to 9:40 GMT (7/13:45 to 7/14:00 MET) on privatized S/G2. Ref. MSG 078 (16-1047).

3. Prior to initiating each of the remaining CWC Fills, both the Water Transfer Hose QD and the CWC QD should be disinfected using disinfectant wipes. Reference MSG 005, Notes C and D.

4. Due to the mission extension and the LiOH rotation with the ISS cans, we've included a new LiOH cue card, MSG 079. You can start using this new cue card beginning with your FD9 presleep changeout. As a reminder, when changing out STS-121 cans, use the masks in the LiOH box and goggles in the CCK. The masks in the LiOH box should only be used once prior to being discarded in the dry trash.

5. Last night an imagery card that had not yet been cleared was removed from the WLES machine (STS-7). As a reminder, please be sure to only remove cards that have been cleared. This will ensure that all images have been downlinked. Also, when a new card is placed in the PGSCs please inform MCC. Thank you!

6. There are no exercise constraints for FD09.

7. REPLACE PAGES 2-30, 2-32, AND 3-92 THROUGH 3-99.

02/15/08 02:07:57 **REPLANNED**

FD09
GMT 02/15/08 (046)
MET Day 007

08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 008/00
12 13 14 15 16 17 18 19 20 21 22 23

STS-122	CDR FRICK	SLEEP; POST SLEEP; PMC A/G; POST SLEEP; HYG BRK/ HATCH CLS; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PRLA CLOSE; IMU; P/TV07 EVA SPPT; EXERCISE; SOLR*; CWC INIT #9; MEAL; CTERM; CWC XFER (2); P/TV07 EVA SPPT; CINC10; INIT; P/TV07 EVA SPPT; ETF & SOL*
STS-122	PLT POINDEXTER	SLEEP; POST SLEEP; RCS*; POST SLEEP; HOSE PURGE; INHIB PAD; EXERCISE; EVA3 IVA SPPRT PREP; PDPS; EVA3 IVA SPPRT
STS-122	MS1 MELVIN	SLEEP; LOG; POST SLEEP; XFR@; XFER OPS; SSRMS SOLAR TRANSFER; SSRMS CMG TRANSFER; SSRMS EUTEF XFER
STS-122	MS2/EV1 WALHEIM	SLEEP; POST SLEEP; HYG BRK/ PREBREATHE; A/L REP; 10.2 DPRS; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; CEGLRKS; EVA 3 (06:30); SOLAR TRANSFER; CMG TRANSFER; EUTEF TRANSFER; CLNUP; INGRS
STS-122	MS3/EV2 SCHLEGEL	SLEEP; LOG; POST SLEEP; CREW*; POST SLEEP; BLB INC LF RMV; INC CI INSTL; BLB HM LF RMV; HM CI; HM SI; INSTL; EXERCISE; MEAL; BLB AI CI INSTL; BLB UMB MATE; VTR%; BLB VTR SI#
STS-122	MS4/EV3 LOVE	SLEEP; POST SLEEP; HYG BRK/ PREBREATHE; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; CEGLRKS; SOLAR TRANSFER; CMG TRANSFER; EUTEF TRANSFER; CLNUP; INGRS
DN	FE-2 TANI	SLEEP; SLVA; POST SLEEP; DPC; PREP WORK; WINDW; HRMS RESET; ♣; FSL CAB LATC RMV; REAR PHOTO; REAR PNL INST; SSRMS SOLAR TRANSFER; EXERCISE TVIS; MIDDAY-MEAL; EMU-T; 1E-UNPACK; RSU PRGM; GLOVE PHOTO; EXER CISE RED
ISS	ISS CDR WHITSON	SLEEP; SLVA; DRY; POST SLEEP; HYG BRK/ HATCH CLS; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; C&W; EXERCISE CEVIS; EXERCISE RED; MIDDAY-MEAL; FSL PROC RVW; FSL UMB MATE; FSL FRONT LF RMV; FSL SC S/U; FSL VMU S/U; GAP
ISS	FE-1 MALENCHENKO	SLEEP; POST SLEEP; DPC; HAM⊕; PROPER WORK; СОГС ANLZ; БИО-5; АЛТСР; МПЧ-1; БИО-5; НЭ-ETD-EXE; VELO + RED; IMS; MIDDAY-MEAL; КУБЗ; ЕДВ FILL; СОЖ МНТ; TVIS
UP	FE-2 EXP16 EYHARTS	SLEEP; SLVA; DRY; POST SLEEP; CREW*; POST SLEEP; DPC; POST SLEEP; ♦; FSL REAR PNL; LF RM; FSL CAB LATC RMV; EXERCISE RED; SSRMS SOLAR TRANSFER; SSRMS CMG TRANSFER; SSRMS EUTEF XFER

DAY/NIGHT

ORBIT: 120 121 122 123 124 125 126 127

TDRS W -171.0 E -46.0 Z -275.0

ORB ATT: BIAS -XLV -ZVV

NOTES
*CHOICE *HEATER RCNFG ♣PAYLOAD-STATUS-CHECK *PPSB2-ON *PPSB2-ON
⊕КРИОГЕМ-03-СК @UPDATE %CI-INSTL
♦FSL EQUIP GATHER #INSTL

FD09
GMT 02/15/08 (046)

MET Day 008

20 21 22 23 02/16 01 02 03 04 05 06 07
008/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-122	CDR FRICK	CTWCRM	CXWCER	POST EVA W/H2O,METOX				PRE	SLEEP	PMC A/G	PRE SLEEP														SLEEP
	PLT POINDEXTER	♣	P-RPS	RPRS	FILTER INSPECT		CDM*	PRE SLEEP*											CDM-A						SLEEP
	MS1 MELVIN	SSRMSF	EXFER	BRIEF	EXERCISE			PRE SLEEP				PFC OCA	PRE SLEEP												SLEEP
	MS2/EV1 WALHEIM	CLNUPS	IN-RPS	RPRS	POST EVA W/H2O,METOX				PRE SLEEP																SLEEP
	MS3/EV2 SCHLEGEL	⊕	BLB LAPTP S/U					PRE SLEEP																	SLEEP
	MS4/EV3 LOVE	CLNUPS	IN-RPS	RPRS	POST EVA W/H2O,METOX				PRE SLEEP																SLEEP
DN	FE-2 TANI	EXERCISE RED			PREP WORK			DPC	PRE SLEEP-ISS																SLEEP
ISS	ISS CDR WHITSON	EDRUMBMATE	IND^		POST EVA W/H2O,METOX				EDV/AL**	PRE SLEEP-ISS															SLEEP
	FE-1 MALENCHENKO	TVIS				PS	DWNLD	DPC	PRE SLEEP-ISS											♦					SLEEP
UP	FE-2 EXP16 EYHARTS	SSRMSF	EXFER		PREP WORK			DPC	PRE SLEEP-ISS																SLEEP

DAY/NIGHT

ORBIT: 128 129 130 131 132 133 134 135

TDRS
W -171.0
E -46.0
Z -275.0

ORB ATT: BIAS -XLV -ZVV

NOTES
♣EVA3 IVA SPPRT *√HUM SEP
⊕BLB VTR SI# *BATT C/O
#INSTL ^FIRE IND C/O *Flash Image D/L *EVA IMAGE
♦КУБЗ-CONTROL1
ISS EXTERNAL SURVEY

STS-122 FD (09)

REPLANNED

GMT Date 02/15 (046) | W | TDRSE | Z | DORB | ORB | MET Day 007 | STS ATT | CDR FRICK | PLT POINDEXTER | MS1 MELVIN | NOTES

08:00 | 09:00 | 10:00 | 11:00

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

16 | 120 | 121 | 122

BIAS - XLV - ZVV

SLEEP

FD09 EZ ACTIVITIES:
OCAC FILTER INSPECTION
HARD REBOOT ALL PGSCs

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRIVATE MEDICAL CONFERENCE
Perform via A/G2

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: 2.315 HYGIENE BREAK
Steps 21-29, MCC-H will perform step 23

EVA SYSTEMS: 2.320 10.2 PSIA
CAMPOUT EVA PREP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

A14 RCS/OMS HTR FWD RCS - B AUTO
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SHUTTLE/ISS H2O CNTR FILL
(ORB OPS, ECLS)
Perform WATER TRANSFER HOSE PURGE

FLIGHT SLEEP LOG (ORB OPS, SDBI)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

4

STS-122 FD (09)

REPLANNED

GMT Date 02/15 (046) | W | TDRSE | Z | DORB | ORB | MET Day 007 | STS ATT | MS2 WALHEIM | MS3 SCHLEGEL | MS4 LOVE | NOTES

08:00 | 09:00 | 10:00 | 11:00

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

16 | 120 | 121 | 122

BIAS-XLV-ZVV

MS2 WALHEIM	MS3 SCHLEGEL	MS4 LOVE
SLEEP	SLEEP	SLEEP
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	FLIGHT SLEEP LOG (ORB OPS, SDBI)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
EVA SYSTEMS: 2.315 HYGIENE BREAK MCC-H will perform steps 1-4,16-20 & 23		EVA SYSTEMS: 2.315 HYGIENE BREAK MCC-H will perform steps 1-4,16-20 & 23
	CREW CHOICE EVENT Perform via S/G 2 Ref. MSG 078	
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
EVA SYSTEMS: 2.320 10.2 PSIA CAMPOUT EVA PREP		EVA SYSTEMS: 2.320 10.2 PSIA CAMPOUT EVA PREP
	1.501 BIOLAB INCUBATOR LAUNCH FIXATIONS DISENGAGEMENT (ASSY PAYLOADS, BIOLAB) Steps 3-13	

5

STS-122 FD (09)

REPLANNED

GMT Date 02/15 (046) | W | TDRSE | Z | DORB | ORB | MET Day 007 | STS ATT | CDR FRICK | PLT POINDEXTER | MS1 MELVIN | NOTES

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

2 3 4 5

122 123 124 125

16:00 17:00 18:00 19:00 20:00

BIAS-XLV-ZVV

CDR FRICK

EVA SYSTEMS: 2.320 10.2 PSIA
CAMPOUT EVA PREP

EVA SYSTEMS: 1.220 EMU PURGE

EVA SYSTEMS: 1.225 EMU PREBREATHE

EVA SYSTEMS: CREWLOCK DEPRESS (CC)

PRLA CLOSE
(ORB OPS, PRLA)

IMU ALIGN - S TRK (ORB OPS, GNC)

P/TV07 EVA
(PHOTO/TV, SCENES)
P/TV SUPPORT SSRMS
Config Shuttle Cameras per ROBO 1.510

EXERCISE

COLUMBUS CONFIG FOR EUTEF AND SOLAR INSTALLATION
(ASSY PAYLOAD, COL EXT PAYLOADS)Steps 2.1 and 2.2

PLT POINDEXTER

EVA INHIBIT PAD
(EVA, TIMELINES)

EXERCISE

IVA SUPPORT PREP

EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)

IVA SUPPORT EVA3

MS1 MELVIN

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG 076

TRANSFER OPS
Ref. Transfer List

ROBOTICS: 1.510 EVA3-SOLAR TRANSFER

STS-122 FD (09)

REPLANNED

GMT Date 02/15 (046) | W | TDRSE | Z | DORB | ORB | MET Day 007 | STS ATT | MS2 WALHEIM | MS3 SCHLEGEL | MS4 LOVE | NOTES

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

2 3 4 5

122 123 124 125

16:00 17:00 18:00 19:00 20:00

BIAS-XLV-ZVV

MS2 WALHEIM	MS3 SCHLEGEL	MS4 LOVE
EVA SYSTEMS: 2.320 10.2 PSIA CAMPOUT EVA PREP	1.501 BIOLAB INCUBATOR LAUNCH FIXATIONS DISENGAGEMENT (ASSY PAYLOADS, BIOLAB) Steps 3-13	EVA SYSTEMS: 2.320 10.2 PSIA CAMPOUT EVA PREP
EVA SYSTEMS: 1.220 EMU PURGE		EVA SYSTEMS: 1.220 EMU PURGE
EVA SYSTEMS: 1.225 EMU PREBREATHE		EVA SYSTEMS: 1.225 EMU PREBREATHE
EVA SYSTEMS: CREWLOCK DEPRESS (CC)	1.502 BIOLAB INCUBATOR COMMISSIONING ITEMS INSTALLATION (ASSY PAYLOADS, BIOLAB)	EVA SYSTEMS: CREWLOCK DEPRESS (CC)
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)		EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)
EVA SYSTEMS: CREWLOCK EGRESS (CC)	1.401 BIOLAB HANDLING MECHANISM LAUNCH FIXATIONS DISENGAGEMENT (ASSY PAYLOADS, BIOLAB)	EVA SYSTEMS: CREWLOCK EGRESS (CC)
	1.403 BIOLAB HANDLING MECHANISM CMSSNING ITEMS INSTALLATION (ASSY PAYLOADS, BIOLAB)	
	1.402 BIOLAB HANDLING MECHANISM STOWAGE ITEMS INSTALLATION (ASSY PAYLOADS, BIOLAB)	
SOLAR TRANSFER		SOLAR TRANSFER
	EXERCISE	

7

STS-122 FD (09)

REPLANNED

GMT Date 02/15 (046) | W | TDRSE | Z | DORB | ORB | MET Day 007 | STS ATT | CDR FRICK | PLT POINDEXTER | MS1 MELVIN | NOTES

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

5 | 125 | 6 | 126 | 7 | 127

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

BIAS-XLV-ZVV

CDR FRICK

COLUMBUS CONFIG FOR EUTEF AND SOLAR INSTALLATION (See Page 3-94)
SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS)INIT FILL #9
Ref. MSG 005, Fill Dur ~52 min
Ref. MSG 073, Item 3

MEAL

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

CWC TRANSFER
Transfer 2 CWCs to ISS

P/TV07 EVA
(PHOTO/TV, SCENES)
P/TV SUPPORT SSRMS
Config Shuttle Cameras per ROBO 1.512

SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS)INIT FILL #10
Ref. MSG 005, Fill Dur ~52 min
Ref. MSG 073, Item 3

P/TV07 EVA (PHOTO/TV, SCENES)
P/TV SUPPORT SSRMS
Config Shuttle Cameras per ROBO 1.512

COLUMBUS CONFIG FOR EUTEF AND SOLAR INSTALLATION
(ASSY PAYLOADS, COL EXT PAYLOADS) Steps 4.1,4.2, & 4.3

PLT POINDEXTER

IVA SUPPORT EVA3

MS1 MELVIN

ROBOTICS: 1.510 EVA3-SOLAR TRANSFER

ROBOTICS: 1.511 EVA3-CMG RETURN

ROBOTICS: 1.512 EVA3-EuTEF TRANSFER

8

STS-122 FD (09)

REPLANNED

GMT Date 02/15 (046) | W | TDRSE | Z | DORB | ORB | MET Day 007 | STS ATT | MS2 WALHEIM | MS3 SCHLEGEL | MS4 LOVE | NOTES

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

5 125 6 126 7 127

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

BIAS -XLV -ZVV

MS2 WALHEIM	MS3 SCHLEGEL	MS4 LOVE
SOLAR TRANSFER	EXERCISE	SOLAR TRANSFER
CMG TRANSFER	MEAL 1.601 BIOLAB ANALYSIS INSTRUMENTS CMSSN ITEMS INSTALL (ASSY PAYLOADS, BIOLAB)	CMG TRANSFER
EUTEF TRANSFER	1.216 BIOLAB UMBILICAL MATE (ASSY PAYLOADS, BIOLAB)	EUTEF TRANSFER
CLEANUP AND INGRESS	ESA: BLB COMM: 1.922 BIOLAB VTR CMSSN ITEMS INSTALL ESA: BLB COMM: 1.921 BIOLAB VTR STOWAGE ITEMS INSTALLATION	CLEANUP AND INGRESS

6

STS-122 FD (09)

REPLANNED

GMT Date 02/15 (046) | W | TDRSE | Z | DORB | ORB | MET Day 008 | STS ATT

CDR FRICK	PLT POINDEXTER	MS1 MELVIN	NOTES
SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Perform FILL TERMINATION	IVA SUPPORT EVA3	ROBOTICS: 1.512 EVA3-EuTEF TRANSFER	
CWC TRANSFER Transfer 1 CWCs to ISS	EVA SYSTEMS: PRE REPRESS (CC) EVA SYSTEMS: CREWLOCK REPRESS (CC)	TRANSFER BRIEF Call down status to MCC	
EVA SYSTEMS: 1.240 POST EVA With H2O With METOX Steps 37 & 67 not req'd Ref: STS-122 CONSUMABLES TRACKING CC (EVA) Ref: POST EVA GLOVE PHOTOS (EVA, MAINT/RCHRG)	FILTER CLEANING (IFM, SCHEDULED MAINTENANCE) Inspect filters and clean as necessary	EXERCISE	
	CDM SETUP AND BATTERY CHANGEOUT (ORB OPS, CDM DTO) Location 5		
	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) √ HUM SEP for H2O Accumulation	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
PRIVATE MEDICAL CONFERENCE Perform via A/G2			
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	A Omit VLHS Items in Step 1 Omit Step 3, Use A/G2 for Audio & WLES PGSC		
		VIDEO TELECONFERENCE (ORB OPS, OCA) A Private Family Conference KU Avail: 02:49-03:05	OCA-PFC
		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) Step 6 deltas: L10(VTR): √ON/STBY-ON (LED GREEN) L10(VIP): √PWR-ON (LED ON) L10(MUX): √MUX/VTR/CC PWR-ON (LED ON) R12(VPU): √PWR-ON (LED ON) √Green Jumper - LDRI/ITVC	
	CDM ACTIVATION (ORB OPS, CDM DTO)		

Time scale: 20:00, 21:00, 22:00, 23:00; MET: 00:00, 01:00, 02:00, 03:00, 04:00

STS ATT: BIAS-XLV-ZVV

DORB: 8, 9, 10; ORB: 128, 129, 130

10

STS-122 FD (09)

REPLANNED

GMT Date 02/15 (046) | W | TDRS E | TDRS Z | DORB 8 9 10 | ORB 128 129 130 | MET Day 008 | STS ATI BIAS -XLV -ZVV

MS2 WALHEIM

CLEANUP AND INGRESS

EVA SYSTEMS: PRE REPRESS (CC)

EVA SYSTEMS: CREWLOCK REPRESS (CC)

EVA SYSTEMS: 1.240 POST EVA
With H2O
With METOX
Steps 37 & 67 not req'd

Ref: STS-122 CONSUMABLES TRACKING CC (EVA)

Ref: POST EVA GLOVE PHOTOS (EVA, MAINT/RCHRG)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS3 SCHLEGEL

ESA: BLB COMM: 1.921 BIOLAB
VTR STOWAGE ITEMS INSTALLATION

ESA PODF: BLB COMM: 1.701 BIOLAB
LAPTOP STOWAGE ITEMS INSTALLATION

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS4 LOVE

CLEANUP AND INGRESS

EVA SYSTEMS: PRE REPRESS (CC)

EVA SYSTEMS: CREWLOCK REPRESS (CC)

EVA SYSTEMS: 1.240 POST EVA
With H2O
With METOX
Steps 37 & 67 not req'd

Ref: STS-122 CONSUMABLES TRACKING CC (EVA)

Ref: POST EVA GLOVE PHOTOS (EVA, MAINT/RCHRG)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

NOTES

Good Morning Atlantis!!

Thank you for another great day yesterday. All of you are doing an awesome job!

You will be happy to know that the Common Video Interface Unit (CVIU) 10 troubleshooting on ISS yesterday recovered the Channel 71 (ORB 1) video path from both the Orbiter to the ISS and from ISS to the Orbiter. Now we have 2 video channels available from Shuttle to Station. It appears the Orbiter Transmit/Receive pins were backwards on CVIU 10. Currently the six pins are “jumpered” on the CVIU 10 faceplate and the ground team is working to design a replacement permanent plug for future Shuttle missions.

Have a great EVA today!!!

YOUR CURRENT ORBIT IS: 185 X 176 NM

NOTAMS:

EDW – LAKEBED RUNWAYS RED.
NOR – LAKEBED RUNWAYS GREEN.
NKT – RWYS 05L/23R + 14L/32R NOT USABLE.
HAW – RWY 31 CLOSED; RWY 13 TODA 8,994’.
WAK – NOT USABLE.
IKF – NOT USABLE.
DIW – TACAN OTS.
LAJ – TACAN CH 45 OTS.
NGU – TACAN CHANNEL CHANGED TO CH 22.
BEN – POLITICALLY NOT RECOMMENDED/NOT SUPPORTED.
DOV – 14/32 CLOSED.
ZZA – FIRST 600M (~2,000’) OF RWY 30L NOT AVAILABLE. 10,200’ REMAINING.
PTN – THLD RWY 14 DISPLACED 2K’, AVAILABLE RWY LENGTH 7,677’.
JDG – DIEGO GARCIA: CLOSED FRI 1800Z - MON 0100Z.
NKT – AERODROME CLOSED 15 FEB 2200z TO 19 FEB 1200Z.

NEXT 2 PLS OPPORTUNITIES:

EDW04 ORB 126 – 7/21:49 (SCT200 040/8P16)
EDW04 ORB 142 – 8/22:09 (FEW150 SCT200 040/5P11)

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 = 35.0 R OMS OX = 35.4
FU = 35.3 FU = 35.2

SUBTRACT ICNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

OMS	314 FPS
ARCS (TOTAL ABOVE QTY1)	58 FPS
TOTAL IN THE AFT	372 FPS
ARCS (TOTAL ABOVE QTY2)	91 FPS
FRCS (ABOVE QTY 1)	0 FPS
AFT QTY 1	66 %
AFT QTY 2	28 %

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

FD08 MMT Summary

The MMT met today to review mission progress, final TPS report, EVA status, and orbiter systems. The entire MMT is very pleased with the excellent progress you are making with the Columbus outfitting.

Orbiter Status - Due to your continued power conservation efforts, it is predicted that up to 70# of O2 may be available for transfer on FN10. Also, Atlantis continues to perform well with only a few minor issues that were discussed.

- The AVIU with the overexposed video will be worked on post flight and no further inflight activities are expected.
- SSOR #1 will be active overnight and monitored for errors. If it drops lock, the ground team will swap the SSSR to check that configuration.
- The ORB1 video channel fix was reviewed. Congratulations to the crew and ground teams for recovering this capability.

EVA Status - The results of EVA #2 were briefed as well as the plan for EVA #3. The gloves from EVA #2 were reported in good shape and go for EVA #3. In addition, the details of the airlock handrail inspection plan were briefed.

Ascent Imagery/Radar Final Report - The final ascent imagery report and final debris radar report were given to the MMT. All of the findings in this final report were previously reported. The X-band and C-band radars were able to track Atlantis during ascent. Between 0-150 seconds, there were 20 reportable findings with 8 of these being significant. Two of these events were correlated the previously discussed debris events at 132.9-133.2 and 124.79 sec MET. This number of radar findings is consistent with previous flights.

Good morning Leland & Stan,

Foam/CPA Plan

Good news, we've found a way to accommodate foam for return! We need to relocate a CPA from the Ext A/L (due to weight constraints) and at the same time, we're trying to help you return additional foam. We've scratched our heads and found a way to do both. Here's how:

1. Remove up to two (2) CPAs from CTB #407 (in EXT A/L Floor Bag)
2. Re-fill CPA CTB with foam
3. Wrap CPAs in ½ in of foam/clothing/towels and stow in the back of food or clothing lockers
    a. 1 CPA per locker; clamshell food containers around CPA (if using a food locker)
    b. Report locker locations used
4. Pack mesh bags with ISS foam:
    a. Report part numbers of foam
    b. If 1 CPA is removed, you may return up to 7 cubic feet
    c. If 2 CPAs removed, you may return up to 14 cubic feet
5. Stow mesh bags in Ext A/L floor and restrain to aft handrail standoff per standard procedure
    a. Do not stow on top of Ext A/L bag
    b. Ensure bags do not contact EMU's

Return Bag 700

We've added the following items for return in this CTB:

- 700.11: PPRV Spacer
- 700.12: CDMK (Carbon Dioxide Monitor Kit)
- 700.13: Etymotic & Prophonic Earplugs
- 700.14: 4.5 lbs of Dan's crew pref

The location where this bag returns is weight limited. As such, the following items need to be removed and left on ISS:

- 700.1: ALSP Airway Subpack
- 700.2: ALSP Drug Pack
- 700.3: ALSP Emergency Surgery Pack

BMRRM Plan

We've also uplinked a revised BMRRM return configuration procedure as MSG 077 (please note that this supersedes previous messages MSG 038 & 051).

The need to alter the return stow configuration is driven by safety concerns; the teams want to be confident that the BMRRM will not move around on the pallet. The Space Shuttle Program (OPO, SE&I, FO&I), Crew Office, MOD, Engineering Directorate, USA and Boeing have all been involved in developing the updated procedure, which again limits the amount of reconfiguration required.

The removal of the BMRRM foam cap is required so that the H2 Latch rib will stick up in the bag and be used as a "poor man's fairlead" for the straps. The team is concerned that the

BMRMM size could allow the straps to slide off of it. This is why we're requesting you fill up the bag with as much foam as you can. The added foam will allow the cinching of the straps to hold the BMRMM in one place. Let us know if you have any questions or concerns.

The Transfer List Excel file, FD09_TransferList_STS122.xls, is located on the KFX machine in **C:\OCA-up\transfer**.

For ISS, the Transfer List Excel file, FD09_TransferList_STS122.xls, is located in **K:\OCA-up\transfer**.

FD09 Choreography

- Continue Return Transfers, the following items are ready for transfer:
  - **421:** ziplock of samples
  - **700.1 – 700.3:** Remove ASLP kits from Return Bag 700 and leave on ISS
  - **700.5:** TVIS ziplock
  - **700.11 – 700.14:** Pack additional items in Return Bag 700 for return
  - **701:** ESA OFK CTB (s/n 1454)

Please update the Transfer List as follows:

In **RETURN** tab:
Replace pages Return- 5 and 6

In **REFERENCES** tab:
Replace MSG 051 with MSG 077

Call us with any questions.

- The Transfer Team

Objectives:

- Safely secure ORU to protect crew and vehicle
  - Remove the BMRRM foam cap from the top of BMRRM, in order to allow the Y-axis straps to wrap around the H2 Latch Ribs
  - Orient BMRRM with H2 Latch Rib at 12 o'clock position with cover plate forward
  - Sufficient foam/soft goods are needed to fill fwd and aft ends tightly to develop sufficient preload

Step 1: Retrieve:

- ISS foam to be used in Step 5
- 4 Meal Trays from 2nd MA9N bag
- Gray Tape

Step 2: Remove BMRRM foam cap from BMRRM and stow in aft end of Bag A. Fill BMRRM foam cap cavity with foam/softgoods. Record part numbers of foam pieces added to Bag A. If foam cap will not fit, temp stow and report.

Step 3: Verify BMRRM is positioned with connector cover plate fwd in Bag A (Fwd is defined as the end of bag with label decal). Ref Figures 2 & 3. Verify BMRRM is in center of Bag A to maintain c.g. requirements.

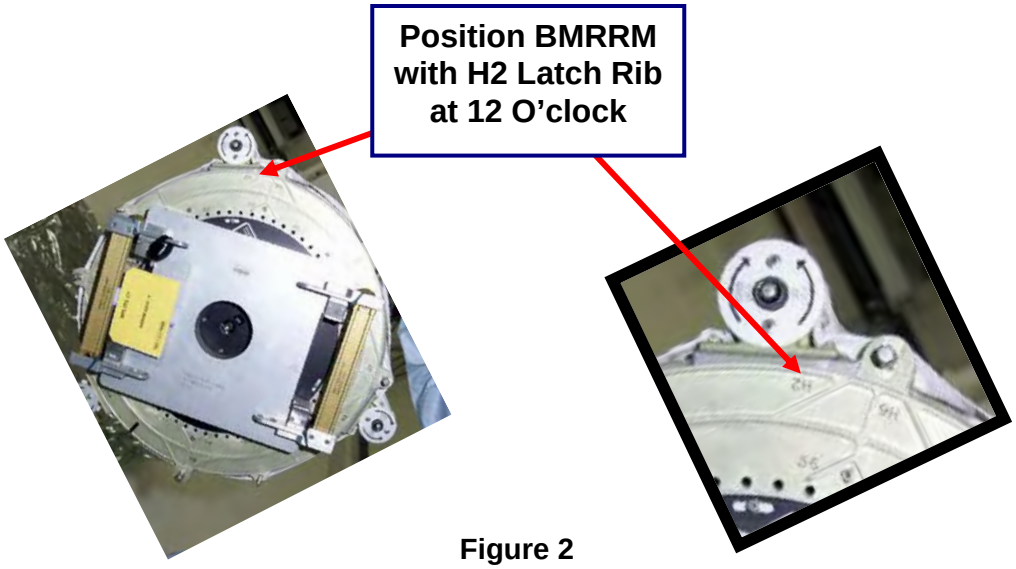

Figure 2

Figure 3

Step 4: Secure 2 blue Meal Trays with gray tape on both sides per Figure 4. Stow Meal Tray Assy in fwd end of Bag A against bag wall per Figure 5. Repeat for aft end of Bag A.

Rationale:

- *Trays provide better load distribution and prevent straps from locally crushing foam on ends.*
- *Trays provide more uniform tension between both X-direction straps.*
- *Trays prevent bag corners from collapsing and allowing X-direction straps to slip off.*

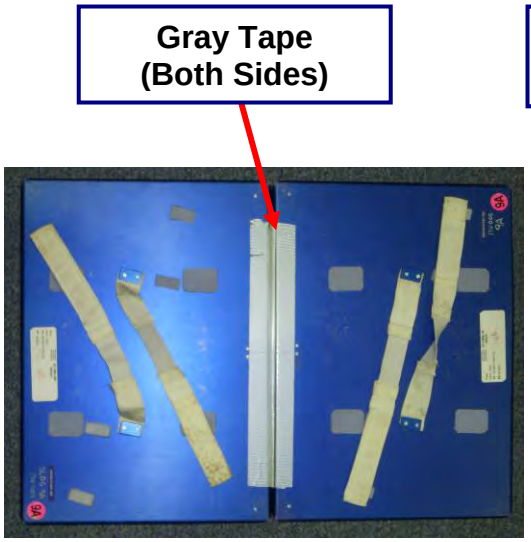

Figure 4

Figure 5

Step 5: Fill Bag A fwd and aft ends tightly with as much foam/softgoods as possible. Record part numbers of foam added to Bag A. Foam/softgoods should not go above top of BMRRM cylinder in order to leave latch rib exposed per Figure 6.

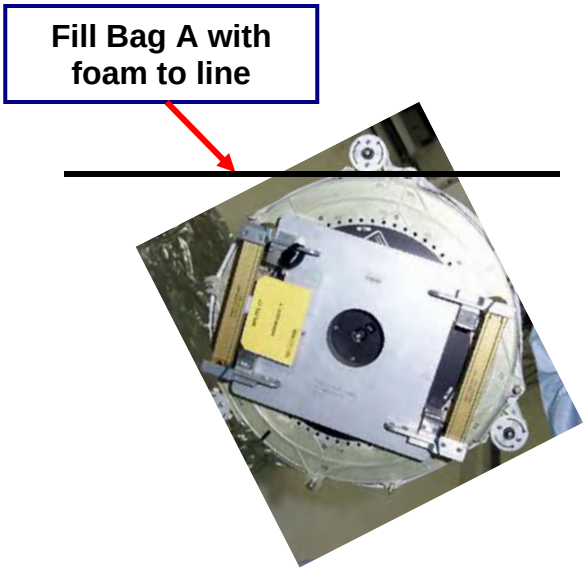

Figure 6

Rationale: *Open spaces, particularly fwd and aft of BMRRM, will not allow straps to hold BMRRM in a stable configuration*

- *BMRRM could shift forward or aft causing a dynamic loading scenario*
    - *Original design assumes the cargo is well constrained minimizing motion relative to the pallet*
- *Foam is required for meal trays to be effective*
- *Foam and meal trays are used to distribute load, maintain strap pre-load and help minimize risk of X-straps slipping off*

Step 6: Report part numbers of foam added to Bag A.

Strap Down BMRRM in Middeck

Step 7: Position Bag A on pallet, ensuring fwd end of bag A is facing forward.

NOTE

1. Connect and cinch all straps as shown in Figures 7 and 8, ensuring straps are not twisted. Figure 7 shows port side of Bag A. Stbd side strapping is the same.
2. Re-cinch as late as possible in timeline.

Rationale: *Strap configuration and cinching sequence designed to restrain BMRRM and prevent strap slippage.*

Step 8: Route fwd Y-axis strap around aft end of latch rib (ref Figures 7 & 8). Cinch strap to preload BMRRM in fwd direction.

Step 9: Route aft Y-axis strap around fwd end of latch rib (ref Figures 7 & 8). Cinch strap.

Step 10: Cinch both X-axis straps (ref Figure 7).

Step 11: Route middle Y-axis strap under fwd and aft Y-axis straps and over both X-axis straps (ref Figure 7).

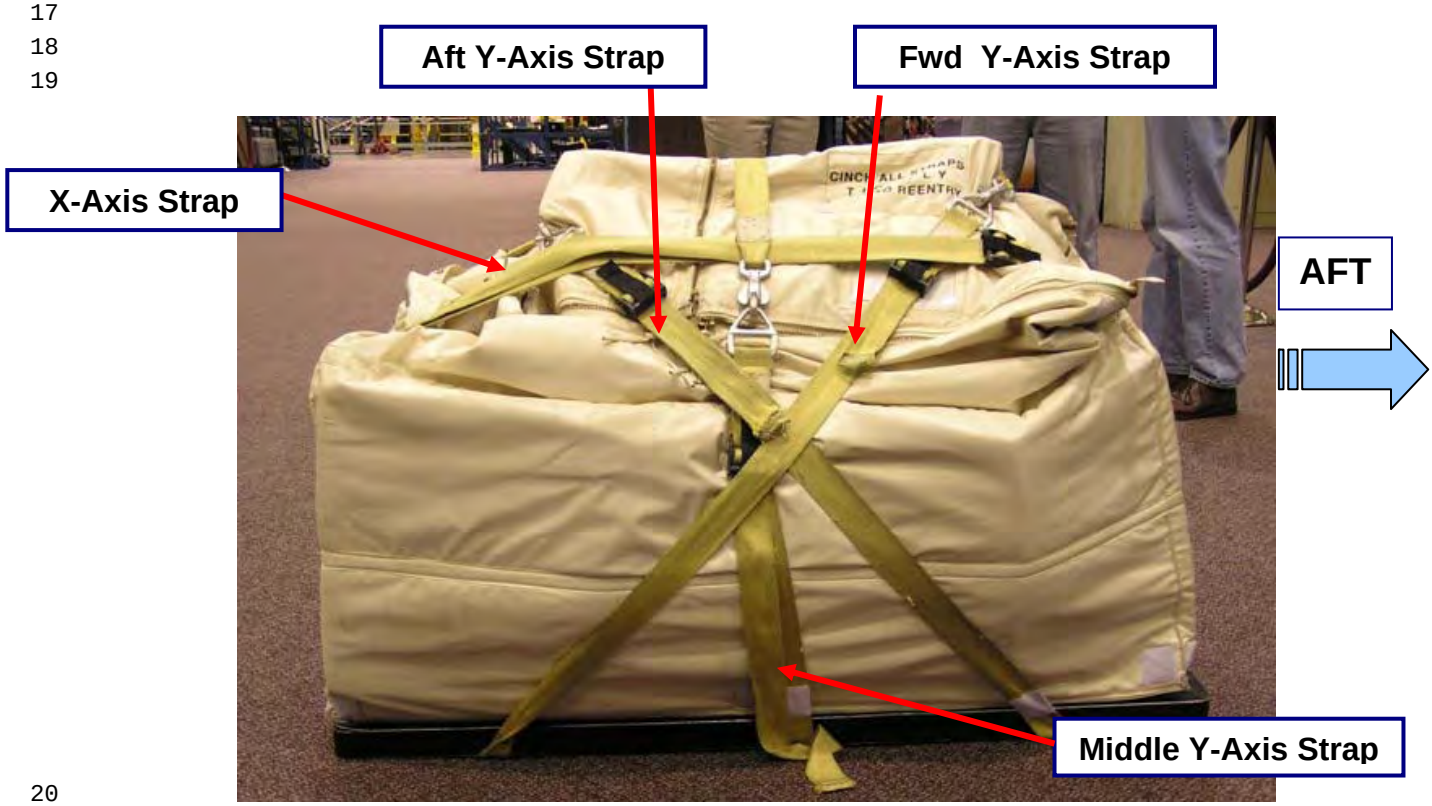

Figure 7: Bag A Port Side Strap Configuration

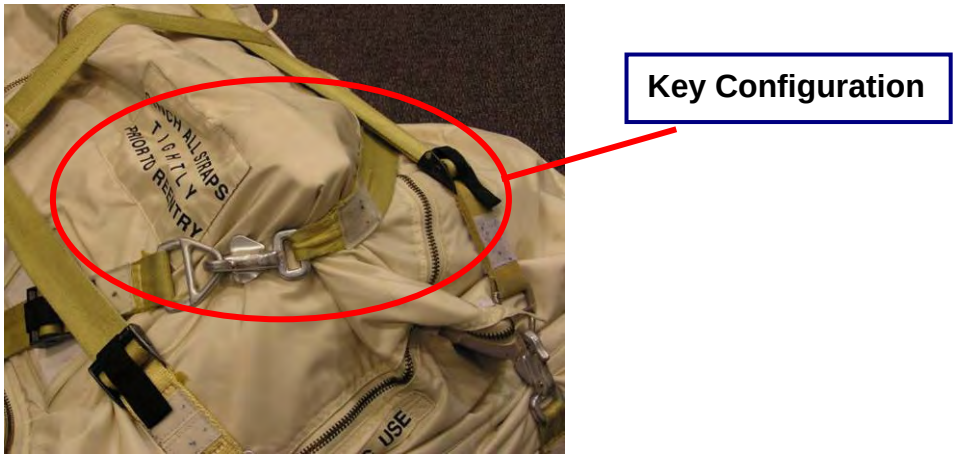

Figure 8

Step 7: Wrap Gray tape around fwd X-direction straps as shown in Figure 9. Maintain straps parallel and flat against bag. Repeat for aft end of these straps.

Figure 9: Fwd end of Bag A

Step 8: Report when complete and any deltas to MCC-H.

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FLIGHT DAY 3 DOCKING
ORBITER with ISS
CO2 ABSORBER REPLACEMENT
(7 crewmembers/Single Shift/FD 1-16)

FLIGHT DAY	POS A	POS B	CK CMPLT
LAUNCH	1	2	
PRE FD01	“	“	
POST FD02	3	4	
PRE FD02	5	“	
POST FD03	6	7	DOCKING
PRE FD03	“	8	
POST FD04	“	“	
PRE FD04	9	“	
POST FD05	“	“	EVA1
PRE FD05	"	10	
POST FD06	“	“	
PRE FD06	11	“	
POST FD07	“	“	EVA2
PRE FD07	"	12	
POST FD08	“	“	
PRE FD08	13	“	
POST FD09	“	“	EVA3
PRE FD09	“	STS-121 12	
POST FD10	“	“	
PRE FD10	STS-121 13	“	
POST FD11	“	“	
MID FD11	STS-121 14*	STS-121 15*	ODS HATCH CL
PRE FD11	“	“	
POST FD12	STS-121 16	STS-121 17	UNDOCK
PRE FD12	“	STS-121 18	
POST FD13	21	22	
PRE FD13	23*	24*	
POST FD14	25	26	EOM
PRE FD14	27	“	
POST FD15	28	29	EOM+1
PRE FD15	30*	31*	
POST FD16	32	33	EOM+2

*Re-bag and seal LiOH cans w/ Gray Tape and stow.
(Locations of canisters on back)

NOTE

This card is specifically used for the STS-122 mission with the orbiter conducting single shift ops with a crew size of 7. Changeout scheme reflects FD3 docking with ISS, Vozdukh and CDRA (activated in dual-bed mode) during docked ops and undocking on FD12. ODS hatch closure will be worked the night before undocking.

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Back of LiOH Cue Card

BACK OF 'FLIGHT DAY 3 DOCKING
ORBITER with ISS
CO2 ABSORBER REPLACEMENT'

LIOH CANISTER STOWAGE LOCATIONS

ASCENT STOWAGE LOCATIONS

Orbiter:

MD52M (LiOH Box):	Cans 1-31*
Bag D:	Cans 32-34
Bag G:	Can 35

ISS:

NOD2D2:	STS-121 cans 12-18

ENTRY (EOM) STOWAGE LOCATIONS

Orbiter:

MD52M (LiOH Box)*:	Cans 1-5, 7, 11-13, 21-35, STS-121 Cans 12-18
Bag D:	3 Cans of 6, 8, 9, or 10
MF14H:	1 Can of 6, 8, 9, or 10 (wrapped in towel/clothes)

*****2 LiOH cans installed in LiOH slots A and B