



# STS-121/ULF1.1

## FD 08 Execute Package

MSG	Page(s)	Title
064A	---	<a href="#">FD08 Summary Timeline (pdf)</a>
057A	1 - 9	<a href="#">FD08 Flight Plan Revision (pdf)</a>
058A	10 - 11	<a href="#">FD08 Mission Summary (pdf)</a>
055	12 - 13	<a href="#">EVA Stowage Locations for Tues Plan (GMT192, FD8) (pdf)</a>
059	14 - 15	<a href="#">FD08 Transfer Message (pdf)</a>
061	16 - 17	<a href="#">FD08 Water Summary (pdf)</a>
062A	18	<a href="#">FD07 MMT Summary (pdf)</a>
063A	19	<a href="#">EVA Items of Interest (pdf)</a>

**Approved by FAO:** L. Eadie

Last Updated: Jul 11 2006 7:38AM GMT

JEDI (Joint Execute package Development and Integration), v2.04.0003

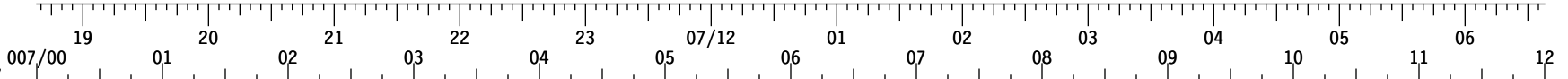
GMT 07/11/06 (192)

MET Day 006

		12	13	14	15	16	17	18	19	20	21	22	23	18	007/00									
S T S - 1 2 1	<b>FD08</b> CDR LINDSEY	POST SLEEP			U A P T D T	WASTE/PWR MGMT		U A P T D T	EXERCISE		MEAL		D/L O P P T Y	C S O N D	EVA 3 PROC R V W		V I L L E E P							
	PLT KELLY	POST SLEEP			C I W N C I 1 1	D C S C 7 6 0 S */ D	M D D K X F E R	C T W R C 1 1	C X F E R	M D D K X F E R		P E A V O E N T	M P L M X F E R		MEAL	D/L O P P T Y	W C S *	C I W N C I 1 2	EXERCISE		C T W R C 1 2	C X F E R	EVA 3 PROC R V W	PRE S L E E P
	MS1 FOSSUM	POST SLEEP			M B T A X T /	E M U H 2 O R C H R G	T P S D T O P R E P	E_LK PREP		EVA TOOLS M G M T		P E A V O E N T	B S A -	I R C A M S /	U	MEAL	D/L O P P T Y	EXERCISE		EVA 3 PROC R V W	PRE S L E E P			
	MS2 NOWAK	POST SLEEP			EXERCISE			MDDK XFER			P E A V O E N T	M D D K X F E R	M P L M X F E R	MEAL	D/L O P P T Y	MPLM XFER		EVA 3 PROC R V W	PRE S L E E P					
	MS3 WILSON	POST SLEEP			M P L M X F E R	EXERCISE			MPLM XFER		P /	T V 0 5 S /	U	P E A V O E N T	MPLM XFER		MEAL	D/L O P P T Y	MPLM XFER		X T F A G E R U P	EVA 3 PROC R V W	PRE S L E E P	
	MS4 SELLERS	POST SLEEP			I W I F	E M U H 2 O R C H R G	T P S D T O P R E P	E_LK PREP		EVA TOOLS M G M T		P E A V O E N T	I R C A M S /	U	U	MEAL	D/L O P P T Y	EXERCISE	MDDK XFER		EVA 3 PROC R V W	I W I F	PRE S L E E P	
I S S	ISS CDR	POST SLEEP	R M G M T C O N F	D P C	MPLM XFER				TVIS			MIDDAY-MEAL	D/L O P P T Y	MPLM XFER		C O X	P M C	I M S	VELO + HC		D P C			
	FE-1	POST SLEEP	P W R K E P	D P C O 2 C K	MPLM XFER			TVIS		RED		MPLM XFER	MIDDAY-MEAL	D/L O P P T Y	MPLM XFER				P M C	J R N L	D P C			
	FE-2 Reiter	POST SLEEP	X R F E W R	D P C	MPLM XFER				MSG WINDOW R & R		MPLM XFER	MIDDAY-MEAL	D/L O P P T Y	MPLM XFER		VELO + HC		X T F A G E R U P	EVA 3 PROC R V W		X B F R E I D P C			
S T S	DAY/NIGHT ORBIT	104		105		106		107		108		109		110		111								
	TDRS	W -171	E - 46		Z -275																			
ORB ATT		BIAS -XLV -ZVV				BIAS -XLV +YVV				BIAS -XLV -ZVV ^				BIAS -XLV -ZVV										
NOTES		^INSTALL				*BATT CHRNG				*COMPACT				*STATUS CK				^CNFG		*CNFG				

GMT 07/11/06 (192)

MET Day 007



S T S - 1 2 1	<b>FD08</b> CDR LINDSEY	PRE SLEEP	PMC OCA	PRE SLEEP	SLEEP					D S O	PMC OA/G	POST SLEEP
	PLT KELLY	PRE SLEEP		SLEEP					POST SLEEP		♣	
	MS1 FOSSUM	PRE SLEEP		SLEEP					POST SLEEP		⊕	
	MS2 NOWAK	PRE SLEEP		SLEEP					D S O	POST SLEEP		
	MS3 WILSON	PRE SLEEP		SLEEP					POST SLEEP		♦	
	MS4 SELLERS	PRE SLEEP		SLEEP					POST SLEEP		⊗	
I S S	ISS CDR	PREP WK	PRE SLEEP-ISS		SLEEP					POST SLEEP		
	FE-1	PREP WK	PRE SLEEP-ISS		SLEEP					POST SLEEP		
	FE-2 Reiter	P W R K E P	PMC	PRE SLEEP-ISS		SLEEP					POST SLEEP	♥
S T S	DAY/NIGHT	[Bar chart showing day/night cycles]										
	ORBIT	[Bar chart showing orbit parameters]										
	TDRS	W -171	[Bar chart showing TDRS activities]									
	E - 46	[Bar chart showing TDRS activities]										
	Z -275	[Bar chart showing TDRS activities]										
	ORB ATT	BIAS -XLV -ZVV										
NOTES	ISS EXTERNAL SURVEY											

♣EVA PREP W  
⊕EVA PREP W  
♦EVA PREP W  
⊗EVA PREP W  
♥EVA PREP W

**CREW SLEEP SHIFT 1 HOUR EARLIER**

MSG 057A - FD08 FLIGHT PLAN REVISION

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MSG INDEX

<u>MSG NO.</u>	<u>TITLE</u>
55	EVA Stowage Locations for Tues Plan (GMT192, FD8) (13-0648)
57	FD08 Flight Plan Revision
58	FD08 Mission Summary (13-0650)
59	FD08 Transfer Message (13-0651)
60	FD08 AP/USA Today PAO Event Summary Message
61	FD08 Water Summary
62	FD07 MMT Summary (13-0652)
63	EVA Items of Interest (13-0653A)
64	FD08 Summary Timeline

1. FD08 N2 TRANSFER TERM AND N2 REPRESS

Since N2 tank to tank transfer will be complete and an N2 repress is required to maintain stack pressures above 14 psia prior to EVA #3, perform the following:

Caution: Do not remain in WCS area during repress, as introduction of N2 may cause hypoxia.

R13L MMU GN2 SPLY ISOL VLV A - CL (tb - CL)  
Using SM 66 ENVIRONMENT, target a Cabin Pressure of 14.20 psia.

Expect 'S66 CAB N2 FLO 1' msg

L2 O2/N2 CNTLR VLV SYS 1 - OP  
MO10W 14.7 CAB REG INLET SYS 1 vlv - OP

When CABIN PRESS = 14.20 or on MCC call,

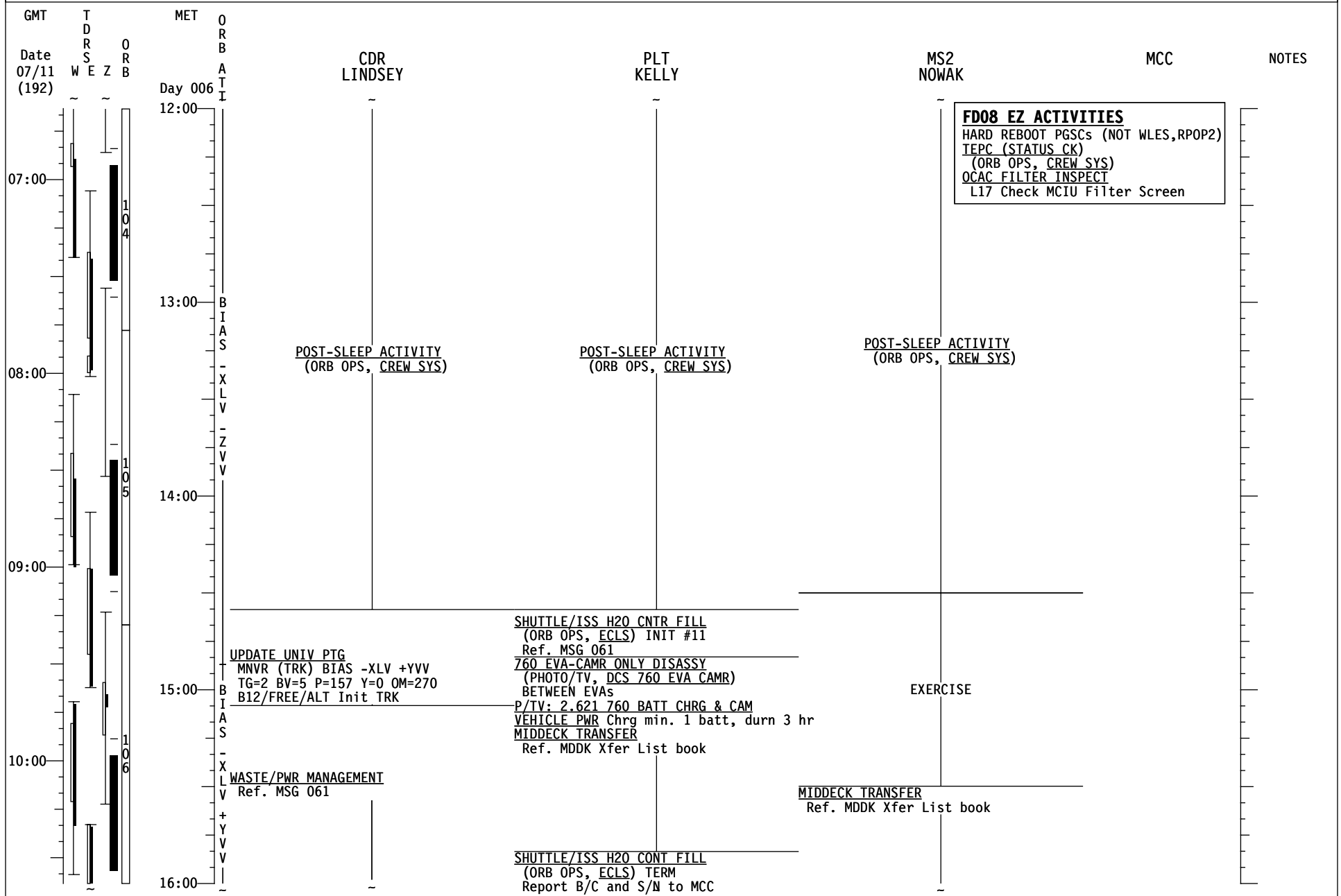
MO10W 14.7 CAB REG INLET SYS 1 vlv - CL  
L2 O2/N2 CNTLR VLV SYS 1 - AUTO

Repress should take approximately 7 minutes.

2. REPLACE PAGES 3-80 THROUGH 3-87.

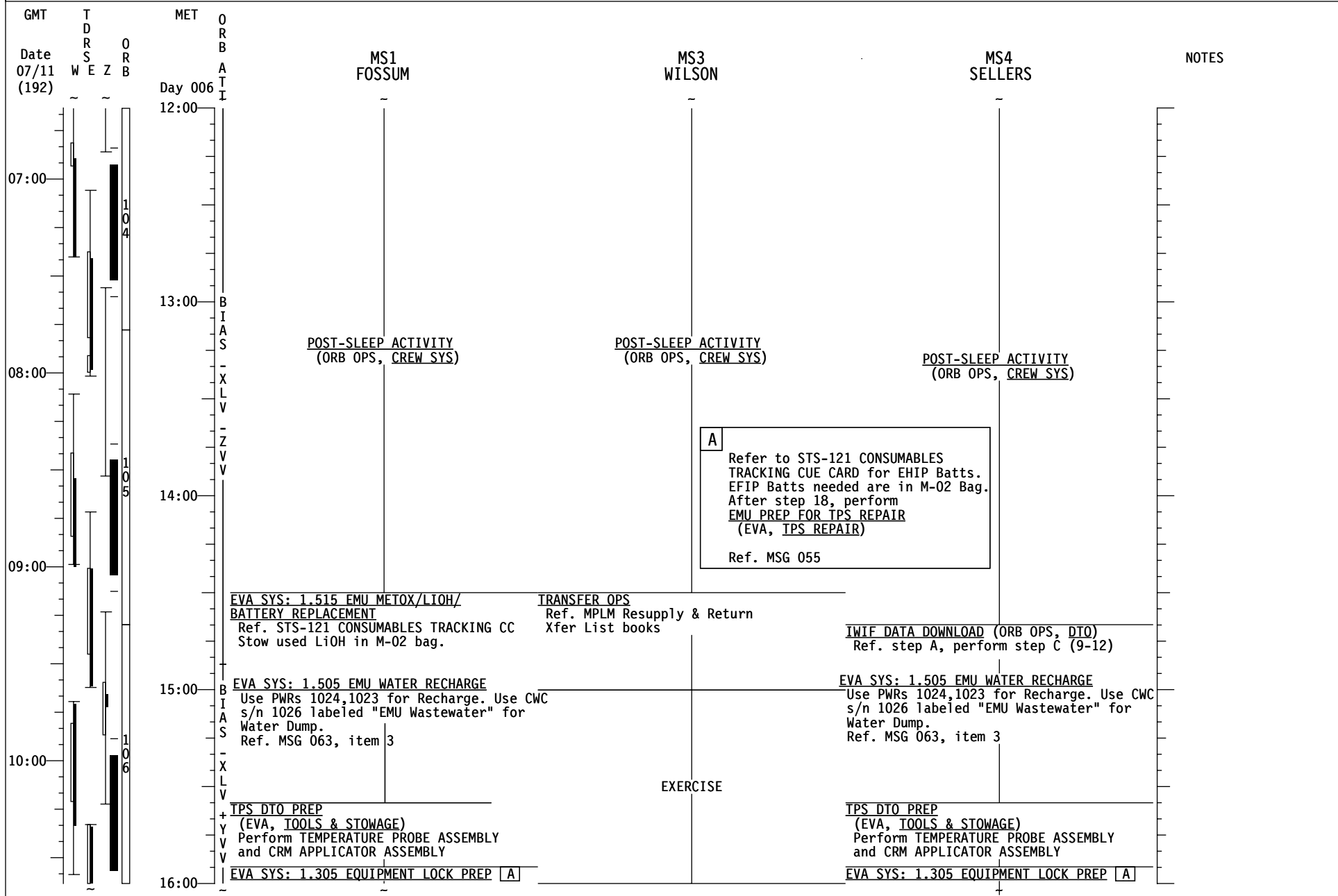
STS-121/ULF 1.1 (FD 08)

REPLANNED



STS-121/ULF 1.1 (FD 08)

REPLANNED



# STS-121/ULF 1.1 (FD 08)

**REPLANNED**

GMT	T D R S E Z	O R B	MET	O R B	CDR LINDSEY	PLT KELLY	MS2 NOWAK	MCC	NOTES
Date 07/11 (192)	W E Z	OR B	Day 006	OR B		<u>SHUTTLE/ISS H2O CONT FILL</u> (ORB OPS, ECLS) TERM Report B/C and S/N to MCC			
16:00					<u>WASTE/PWR MANAGEMENT</u> Ref. MSG 061	<u>CWC TRANSFER</u> Transfer 1 CWC to ISS Ref. MSG 061	<u>MIDDECK TRANSFER</u> Ref. MDDK Xfer List book		
17:00					<u>UPDATE UNIV PTG</u> MNVR (TRK) BIAS -XLV -ZVV TG=2 BV=5 P=157 Y=355 OM=180 B12/FREE/ALT Init TRK <u>IMU STAR OF OPTY ALIGN (ORB OPS, GNC)</u>	<u>MIDDECK TRANSFER</u> Ref. MDDK Xfer List book			
18:00					EXERCISE	<u>PUBLIC AFFAIRS EVENT</u> KU AVAIL TDRE: 17:42-18:02 Ref. MSG 060	<u>PUBLIC AFFAIRS EVENT</u> KU AVAIL TDRE: 17:42-18:02 Ref. MSG 060		
19:00						<u>TRANSFER OPS</u> Ref. MPLM Resupply & Return Xfer List books	<u>MIDDECK TRANSFER</u> Ref. MDDK Xfer List book		
20:00							<u>TRANSFER OPS</u> Ref. MPLM Resupply & Return Xfer List books		
14:00					MEAL	MEAL	MEAL		
20:00					<u>D/L OPPORTUNITY</u> A/G Event Only	<u>D/L OPPORTUNITY</u> A/G Event Only	<u>D/L OPPORTUNITY</u> A/G Event Only		

# STS-121/ULF 1.1 (FD 08)

**REPLANNED**

GMT Date 07/11 (192)	T D R S E Z	O R B	MET Day 006	O R B A T T I	MS1 FOSSUM	MS3 WILSON	MS4 SELLERS	NOTES
					<p><u>EVA SYS: 1.305 EQUIPMENT LOCK PREP</u> Refer to STS-121 CONSUMABLES TRACKING CUE CARD for EHIP Batts. EHIP Batts needed are in M-02 Bag. After step 18, perform <u>EMU PREP FOR TPS REPAIR</u> (EVA, TPS REPAIR)</p> <p>Ref. MSG 055</p> <p><u>EVA TOOLS MGMT</u> (EVA, TOOLS &amp; STOWAGE) Perform FD8-EVA 2 Tool Dcnfg Ref. MDDK Resupply TL items: 40,800 &amp; 802 Ref. MSG 063, item 1</p>	<p><u>TRANSFER OPS</u> Ref. MPLM Resupply &amp; Return Xfer List books Ref. MPLM Resupply TL, Swap tab items: 245,756,756.1</p>	<p><u>EVA SYS: 1.305 EQUIPMENT LOCK PREP</u> Refer to STS-121 CONSUMABLES TRACKING CUE CARD for EHIP Batts. EHIP Batts needed are in M-02 Bag. After step 18, perform <u>EMU PREP FOR TPS REPAIR</u> (EVA, TPS REPAIR)</p> <p>Ref. MSG 055</p> <p><u>EVA TOOLS MGMT</u> (EVA, TOOLS &amp; STOWAGE) Perform FD8-EVA 2 Tool Dcnfg Ref. MDDK Resupply TL items: 40,800 &amp; 802 Ref. MSG 063, item 1</p>	
						<p><u>P/TV05 ISS INTERNAL OPS (HC)</u> (PHOTO/TV, SCENES) SETUP</p>		
					<p><u>PUBLIC AFFAIRS EVENT</u> KU AVAIL TDRE: 17:42-18:02 Ref. MSG 060</p>	<p><u>PUBLIC AFFAIRS EVENT</u> KU AVAIL TDRE: 17:42-18:02 Ref. MSG 060</p>	<p><u>PUBLIC AFFAIRS EVENT</u> KU AVAIL TDRE: 17:42-18:02 Ref. MSG 060</p>	
					<p><u>EVA SYS: 1.605 BSA BATTERY RECHARGE</u> - TERM - Stow HL Batts in M02 Bag. 1019 X for use in EVA IR CAM SETUP.</p> <p><u>EVA IR CAM SETUP</u> (PHOTO/TV, EVA IR CAM) - Use EHIP Batt s/n 1019 Ref. MSG 055</p>	<p><u>TRANSFER OPS</u> Ref. MPLM Resupply &amp; Return Xfer List books</p>	<p><u>EVA IR CAM SETUP</u> (PHOTO/TV, EVA IR CAM) Use EHIP Batt s/n 1019 Ref. MSG 055 <u>760 EVA-CAMR ONLY</u> (PHOTO/TV, DCS 760 EVA CAMR)</p>	
					MEAL	MEAL	MEAL	
					<u>D/L OPPORTUNITY</u> A/G Event Only	<u>D/L OPPORTUNITY</u> A/G Event Only	<u>D/L OPPORTUNITY</u> A/G Event Only	



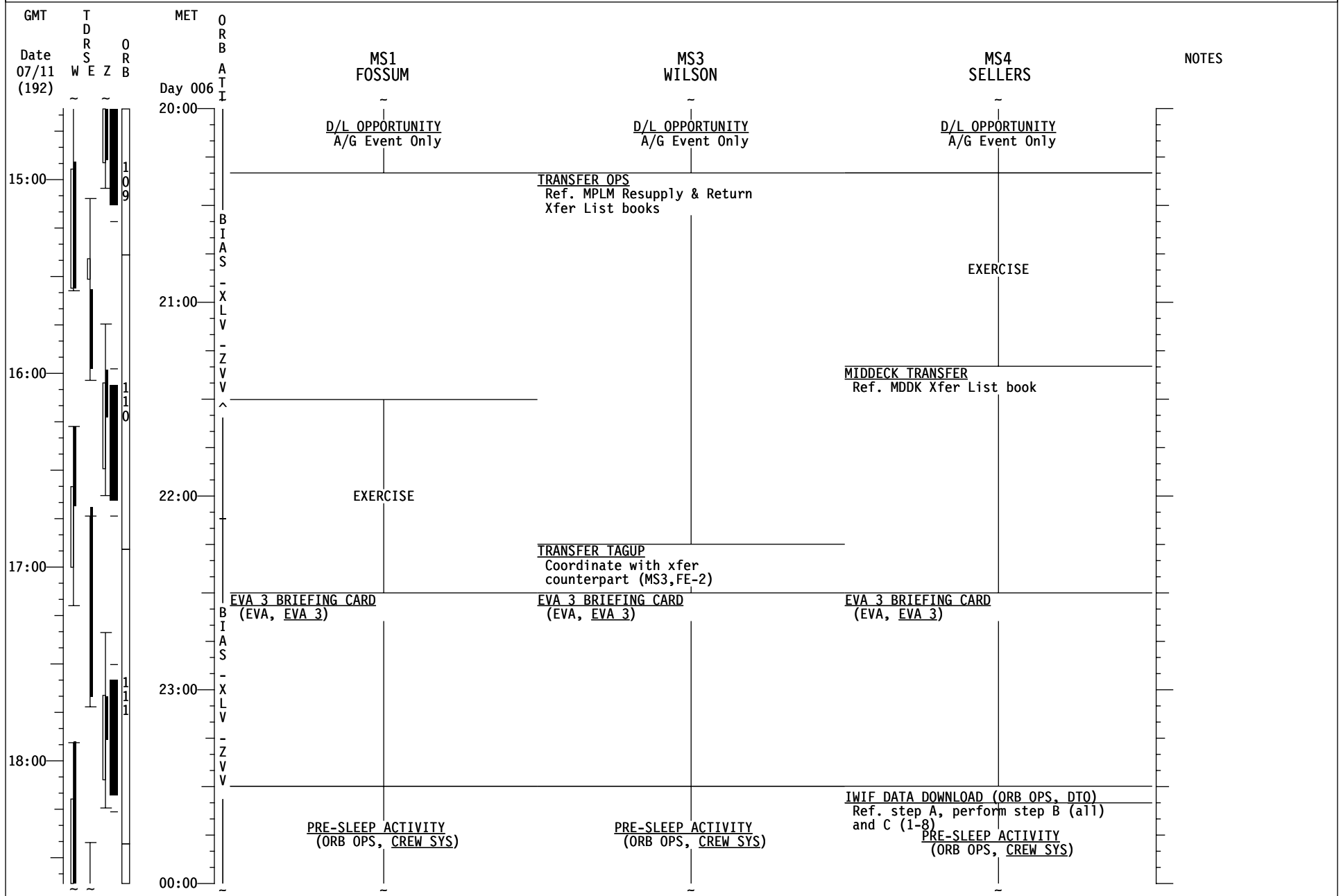
# STS-121/ULF 1.1 (FD 08)

**REPLANNED**

GMT	T D R S E Z O R B	MET	OR B A T I	CDR LINDSEY	PLT KELLY	MS2 NOWAK	MCC	NOTES
Date 07/11 (192)	W E Z B	Day 006	Day 006					
20:00				<u>D/L OPPORTUNITY</u> A/G Event Only	<u>D/L OPPORTUNITY</u> A/G Event Only	<u>D/L OPPORTUNITY</u> A/G Event Only		
15:00				<u>SHUTTLE CONDENSATE COLLECTION</u> (ORB OPS, ECLS) SETUP Ref. MSG 061	<u>WCS COMPACTOR OPS (DUAL-VANE)</u> (CUE CARD)	<u>TRANSFER OPS</u> Ref. MPLM Resupply & Return Xfer List books		
					<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) INIT #12 Ref. MSG 061			
16:00					EXERCISE			
				R12(VPU) GREEN JMPR-LDRI/ITVC R12(OBSS) ITVC ENA - ON <u>N2 TRANSFER TERMINATE &amp; REPRESS</u> Ref. MSG 057, Item 1	<u>SHUTTLE/ISS H2O CONT FILL</u> (ORB OPS, ECLS) TERM Report B/C and S/N to MCC			
17:00				<u>UPDATE UNIV PTG</u> MNVR (TRK) BIAS -XLV -ZVV TG=2 BV=5 P=157 Y=0 OM=173 B12/FREE/ALT Init TRK	<u>CWC TRANSFER</u> Transfer 1 CWC to ISS Ref. MSG 061			
				<u>EVA 3 BRIEFING CARD</u> (EVA, EVA 3)	<u>EVA 3 BRIEFING CARD</u> (EVA, EVA 3)	<u>EVA 3 BRIEFING CARD</u> (EVA, EVA 3)		
23:00								
18:00				R12(VPU) GREEN JMPR-ISS L10 MUX/VTR/C PWR - OFF (LED off) VTR/CC PWR - OFF (LED off) VIP PWR - OFF (LED off) R14 ALL PLB CAM ILLUM - ON	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)		
00:00				<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)				

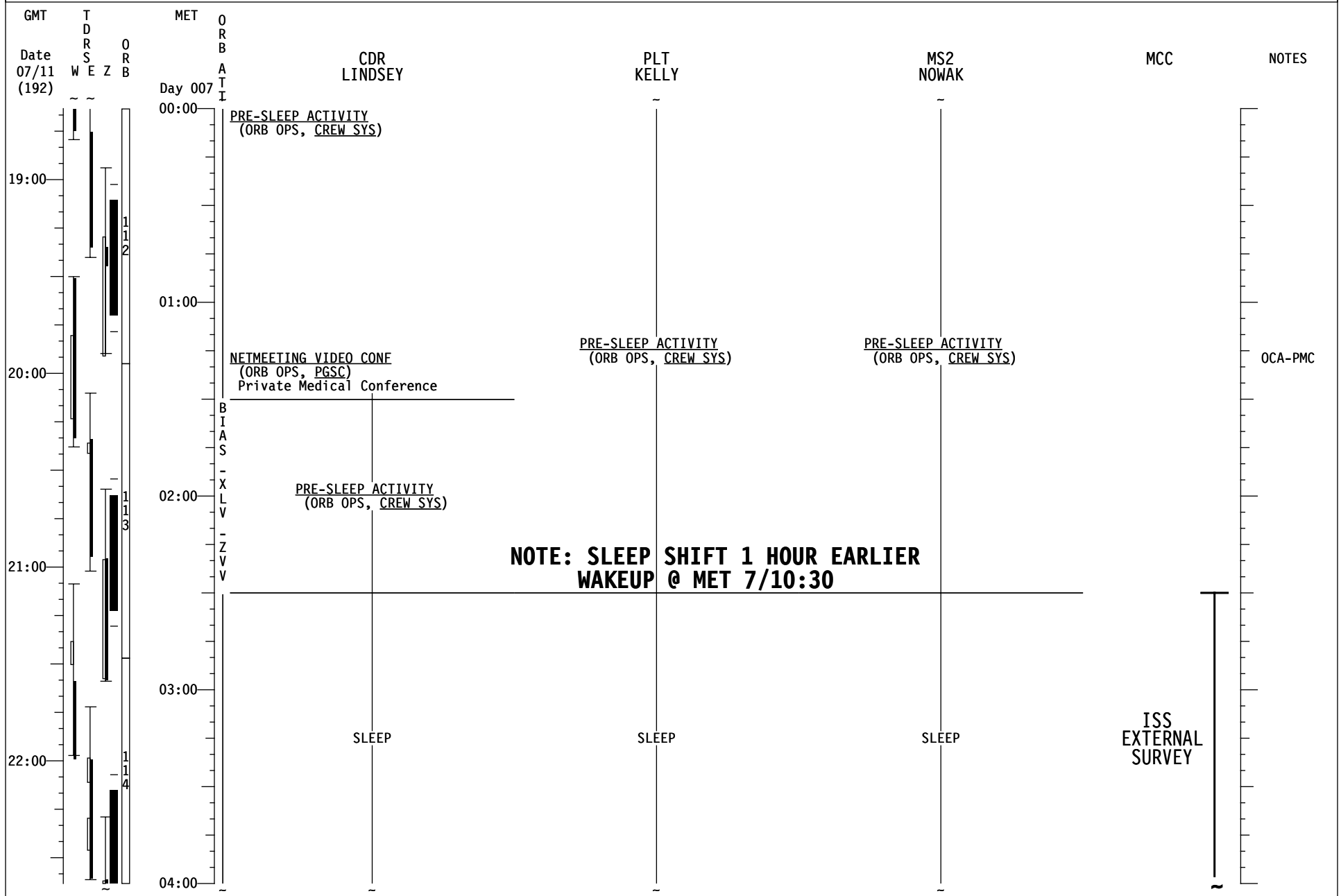
# STS-121/ULF 1.1 (FD 08)

**REPLANNED**



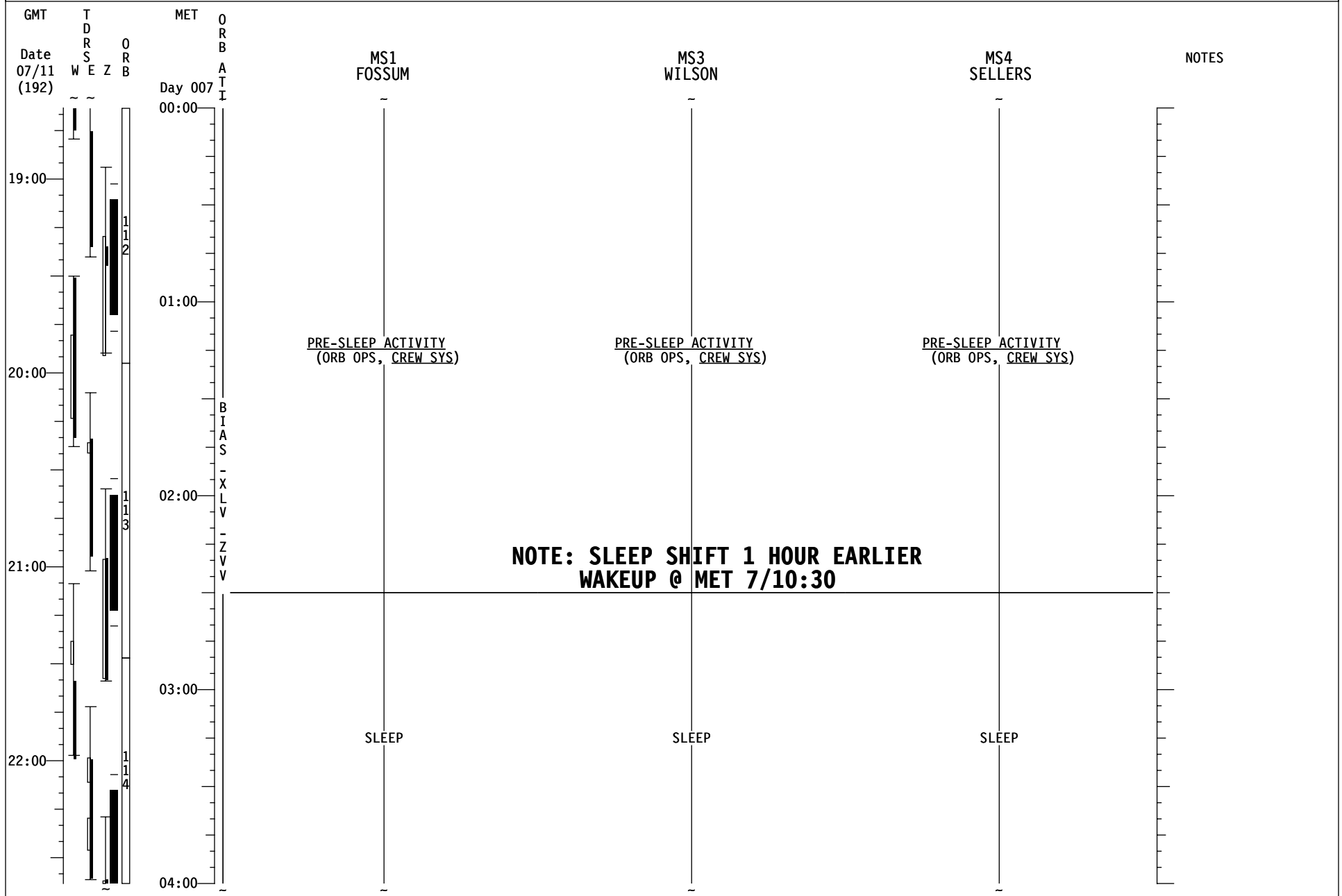
# STS-121/ULF 1.1 (FD 08)

**REPLANNED**



# STS-121/ULF 1.1 (FD 08)

**REPLANNED**



**MSG 058A (13-0650A) - FD08 MISSION SUMMARY**

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Good morning, Discovery.

That was a great EVA and it showed that Aggies can be taught to work locks, latches, and anything else. Miracles never cease. Everyone down here is very happy, especially the ROBOs, the MT is back to full capability including the mast camera. And now, thanks to you, we can continue building Station.

Transfer is going so well, we thought about giving you a bunch of time off, but then after the laughter died down, we actually did decide to reduce transfer a few hours today. Thanks again for working so well on this.

We were pleased to hear that the IWIF files are being downloaded successfully. We sure do appreciate your extra effort to successfully download 1003. The ground team is looking forward to having the data early so they can get to work on analyzing it for future flights. Great job!

YOUR CURRENT ORBIT IS: 191 X 177 NM

NOTAMS:

- ORMOND BEACH (KOMN) – TAC (OMN CH 73) AZMUTH OUT OF SERVICE UFN
- CHERRY POINT (NKT) - RWY 32 CLOSED FOR MAINTENANCE
- LAJES – TACAN 45X OUT OF SERVICE TILL 10 JUL
- KING KHALID - VORTAC CH 92X OPERATIONAL BUT CAUTION ADVISED DUE TO NO MONITORING
- GUAM (GUA) – RWY 06L/24R CLOSED
- AMBERLEY (AMB) – CLOSED
- OCEANA (NTU) - RWY 23L/05R CLOSED
- RIO GALLEGOS (AWG) - NOT APPROVED
- ISTRES (FMI) – 33 RWY REMAINING MARKERS AVAIL ARE 300,600,900M

NEXT 2 PLS OPPORTUNITIES:

- EDW22 ORB 111 – 6/23:09 (FEW150 FEW250, 200@7P10)
- EDW22 ORB 126 – 7/21:56 (FEW080 FEW250, 210@10P15)

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 = 34.6 R OMS OX = 37.2
- FU = 35.1 FU = 37.9

**MSG 058A (13-0650A) - FD08 MISSION SUMMARY**

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SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

OMS	365 FPS
ARCS (TOTAL ABOVE QTY1)	26 FPS
TOTAL IN THE AFT	391 FPS
ARCS (TOTAL ABOVE QTY2)	59 FPS
FRCS (ABOVE QTY 1)	36 FPS
AFT QTY 1	84 %
AFT QTY 2	46 %

**13-0648 (MSG 055) – EVA Stowage Locations for Tue Plan (GMT 192, FD8)**

Page 1 of 2

1 Contents:

2 **Timeline Procedures:**

3 EMU SYS

4 EMU PREP FOR TPS REPAIR

5 EVA IR CAM SETUP

6 **Tasklist Procedures:**

7 NONE

8

9 **Timeline Procedures:**

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EMU SYS						
1.305 EQUIPMENT LOCK PREP						
Type: Standard				IMS Plan: No		
#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	A/L101 M-02 Bag: EVA PREP AND OPS, S/N 1038, B/C 003019J	Helmet Light Battery	SEG39130223-302	1011 1012 1013 1014	-	

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EMU PREP FOR TPS REPAIR						
N/A						
Type: Standard				IMS Plan: No		
#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	A/L1A1 EMU Equipment Bag, S/N 1059, B/C EB1013J	O2 Actuator Cover	SEZ13101999-701	1002 1006	EMUG22J EMUA62J	
2	A/L101	EMU ORU Tool Kit Assembly	SJG13101970-301	1003	017701J	
3	M-02 Bag: EVA	Kapton Tape 1"	528-41353-1	-	-	
4	PREP AND OPS, S/N	TEFLON SQUARES, 2"X2"	SED39136016-001	-	-	
5	1038, B/C 003019J	MODIFIED BANDAGE SCISSORS ASSY	SED13101577-301	-	-	

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**13-0648 (MSG 055) – EVA Stowage Locations for Tue Plan (GMT 192, FD8)**

Page 2 of 2

EVA IR CAM SETUP						
N/A						
Type: Standard				IMS Plan: No		
#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	A/L101 M-02 Bag: EVA PREP AND OPS, S/N 1038, B/C 003019J	Helmet Light Battery	SEG39130223-302	1019	-	This was charged on FD08 and might still be in the BSA.

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**Tasklist Procedures:**

**NONE**



## MSG 059 (13-0651) - FD08 TRANSFER MESSAGE

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Good morning Thomas, Stephanie, and Steve,

Guess it pays to have three Loadmasters, especially one ISS trained Loadmaster!  
Amazing. We were able to give up some time today.....enjoy! Please pass on our thanks to  
Jeff and Pavel for the transfer work yesterday.

### Information for crew:

Thomas called down that the docked ops bag was temp stowed in P3\_D2. We've reflected  
this in item 207 (docked ops bag with contents) as temp stowed. We did not show 757  
(empty docked ops bag) as complete since it's not yet in its final return config.

Thomas called down that the Vband coupling is temp stowed in MPL1P3\_B2 in a ziplock We  
added a reminder to Return Bag 757 (CEVIS 0.5 CTB) to be sure it is placed in this CTB.

We understand that Pavel is still looking for two Russian Converter amp units. If they're  
found, please add them to Return Bag 478 in MPL1S2\_D1. This is on your updated pages  
today as item 478.1.

### Questions for Thomas:

Please confirm that the Access Point and patch antenna were removed from item 509.

Please confirm the s/n of the Orlan gloves that Pavel has to return. These are on your  
updated pages today as item 808.

Please verify s/n and contents of Return Bag 428. You called down this item as a 1.0 CTB,  
but per the prepack list Return Bag 428 should be 0.5 CTB s/n 1136 containing a Dummy  
Box, an IWIS RSU, and a Portable microphone. If there are other items in this CTB, please  
let us know. We are concerned the CTB may contain items that are NOT planned for return.

### Regarding your bag relocations (513 and 428) today:

MPLM Folks verified the new locations are fine. Return Bag 513 may stay in S2\_G2.  
Assuming Return Bag 428 only contains the items listed above (previous paragraph), it may  
stay in P2\_D2.

### FD08 Choreography

- Middeck Transfers
- Transfer EVA3 items from MDDK to ISS (CRM bag, IR Camera CTB)
- Transfer MSG window to LAB for R&R if not already complete.
- Transfer CTB of unused EVA LiOHs to Joint A/L; put 4 LiOHs into M-02 bag in A/L;  
retrieve 4 used EVA LiOHs form M02 bag and pack back in this CTB. Return CTB to  
MPLM.
- Continue packing return bags/items in RSPs and RSRs (not much left!)

The Transfer List Excel file, FD08\_TransferList\_STS121.xls, is located on the KFX machine  
in **C:\OCA-up\transfer**.

For ISS, the Transfer List Excel file, FD08\_TransferList\_STS121.xls, is located in **K:\OCA-  
up\transfer**.

(continued on next page)

**MSG 059 (13-0651) - FD08 TRANSFER MESSAGE**

Page 2 of 2

- 1
- 2 Please incorporate uplink pages as follows (call us with any questions!):
- 3
- 4 In the MDDK Transfer List Book
- 5 **RESUPPLY** tab
- 6 Replace Page Resupply 7
- 7 **MDDK RSPLY REALTIME ADDITIONS** tab
- 8 Replace Page Resupply 9
- 9 **RETURN** tab
- 10 Make the following Pen & Ink change (if desired):
- 11 Page Return 3: Item 486: Change weight from 14.1 to 13.88
- 12 **MDDK RTN REALTIME ADDITIONS** tab
- 13 Replace Page Return 8
- 14
- 15 In the MPLM Resupply Transfer List Book
- 16 **P3 RSR** tab
- 17 Replace Page Resupply 26
- 18
- 19 In the MPLM Return Transfer List Book
- 20 **LAYOUTS** tab
- 21 Replace the following pages:
- 22 L-16
- 23 L-21
- 24 L-29
- 25 L-30
- 26 L-31
- 27 **RETURN** tab
- 28 Replace the following pages:
- 29 Page Return 16
- 30 Page Return 25
- 31 Page Return 26
- 32 **MPLM RTN REALTIME ADDITIONS** tab
- 33 Replace Page Return 32
- 34
- 35 -The Transfer Team-
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MSG 061 - FD08 WATER SUMMARY

1  
2 Today there will be 2 CWC Fills, 2 PWR dumps, and a waste dump. If time allows, the  
3 waste dump may be turned into a simo dump. Shuttle Condensate Collection will be  
4 reinitiated later today.

5  
6 **CWC Fill Details**

7  
8 The Shuttle/ISS H2O Container Fill initiation scheduled for PLT at 6/14:35 should contain  
9 the following details:

10 SHUTTLE/ISS H2O CONT FILL INIT #11

11 (ORB OPS, ECLS)

12 Ag Biocide is req'd.

13 Sample is not req'd.

14 Fill Duration: ~50 minutes

15 Report Serial Number and Barcode to MCC.

16  
17 Following fill #11, per the flight plan, transfer the CWC to the water wall (NOD1P2). If there  
18 is insufficient room for the CWC at this ISS location, store CWC on the FGB Floor and report  
19 to MCC.

20  
21 At MET 6/20:35 the PLT should perform CWC fill #12. The following fill details apply:

22 SHUTTLE/ISS H2O CONT FILL INIT #12

23 (ORB OPS, ECLS)

24 Ag Biocide is req'd.

25 Sample is not req'd.

26 Fill Duration ~50 minutes

27 Report Serial Number and Barcode to MCC.

28  
29 Following fill #12, per the flight plan, transfer the CWC to the water wall (NOD1P2). If there  
30 is insufficient room for the CWC at this ISS location, store CWC on the FGB Floor and report  
31 to MCC.

32  
33 **PWR and Waste Dump Details**

34  
35 Prior to MET 6/15:25 obtain PWR S/N 1007 from ISS A/L1D1\_B1, and PWR S/N 1013 from  
36 ISS A/L1D1\_A2. The B-B hose and R-Y QD adapter are in the Contingency Hose and  
37 Cable Kit (CHCK).

38  
39 At MET 6/15:25, the CDR should dump the two PWRs sequentially from the supply line  
40 using PWR DUMP-SUPPLY LINE (ORB OPS, ECLS) p.5-40. Supply dump valve open  
41 durations will be approximately 12 minutes for PWR 1007 and 14 minutes for PWR 1013.  
42 PWRs will be empty when the PWR bags collapse or there is a sustained increase in supply  
43 nozzle temperatures.

44  
45 Once the PWR dump has been completed, perform a waste water only dump using  
46 SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) p. 5-2. Perform steps E, G, and I.  
47 Dump the waste tank to 5%. Dump valve open duration will be approximately 27 minutes.

MSG 061 - FD08 WATER SUMMARY

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After the dumps have been terminated, temp stow empty PWRs on the middeck for refilling on FD10. B-B hose and R-Y QD adapter should also be temp stowed for use post-undocking.

MCC will TMBU all FDA for the PWR and Waste water dumps.

**Shuttle Condensate Collection Details**

At 6/20:20 MET, reinitiate condensation collection using SETUP of SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS) p. 5-36. Obtain CWC from Middeck Ceiling Port 2 Bag F. Report time of initiation, CWC Serial Number and barcode to MCC.

## MSG 062A (13-0652A) - FD07 MMT SUMMARY

Page 1 of 1

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### FD7 MMT Crew Summary

The FD7 MMT meeting was less than 30 minutes in length and there were no significant discussion topics or key decisions made. There was no new information or analysis on any of the TPS items of interest including tile, RCC, ET doors, thermal blankets, and gap fillers. EVA #2 was in progress at the time of the MMT and both programs were very pleased and excited about the great work performed by the crew in restoring the Mobile Transporter (MT) to full redundancy. Just for your information the translation from Worksite 4 to Worksite 5 on the morning on FD7 was the first MT translation since January of 2003. Here are a few minor items of interest that were discussed in the meeting:

**Transfer** – A preliminary estimate from the end of FD6 is that the MPLM is on schedule with about 40% of the total transfer complete. Approximately 93% of the re-supply and 7% of the return is estimated to be complete. The middeck transfer appears to be ahead of schedule with a total of ~44% complete. This breaks down to 68% re-supply and 10% return.

**WLE Sensors** – The WLE sensors should continue to work for at least two more days based on thermal predictions and battery lifetime. Sensor near panel #8 on the port wing does not appear to be communicating properly but there are two other sensors in the area that provide overlapping coverage.

**MADS Data** – As you know this is the first mission where pressure and temperature data recorded on the MADS system can be downlinked and evaluated by the MCC in real-time. Part of this data is now recorded on the Solid State Recorders during ascent, entry, and other times of interest. The teams have evaluated this data and other than a few sensors that failed off scale high or low the data looks very good.

**Humidity Control in ISS** – The ISSP, SSP, and Russians have agreed that there will be no additional reductions in ISS humidity for the rest of the mission so no further manual adjustments of the Water Loop 2 flow will be required.

**Water Spray Boiler (WSB)/APU Restart DTO** – The Water Spray Boiler DTO performed by the CDR/PLT on FD1 was all nominal and this provides great confidence that the water/PGME mixture has solved the FD1 freeze up issue on the WSBs. Based on the work performed on STS-121 and STS-114, the team will utilize water and PGME in all three boilers beginning with STS-116 on Discovery later this year.

## MSG 063A (13-0653A) - EVA ITEMS OF INTEREST

Page 1 of 1

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### 1. EVA TOOL MANAGEMENT

To help clarify crewlock bag nomenclature: In 121 EVA Checklist, EVA TOOLS MANAGEMENT, Flight Day 8 - EVA 2 Tool Deconfig, page FS 8-17, the crewlock bag without a reference number was taken out during EVA 2 and will be taken out again on EVA 3. Crewlock bag #2 is the zenith/aft (upper/right) bag on the crewlock endcone, while crewlock bag #3 is the nadir/fwd (lower/left) bag.

### 2. SAFER 1005 ANOMALIES

Due to the SAFER 1005 anomalies during EVA 2, the ground teams are trying to figure out what might have happened and are looking at potential changes to donning SAFERs. We have the following questions for you to answer at your convenience that will help us out and make everyone comfortable with SAFER use for EVA 3:

- During EVA Prebreathe, did you notice any issues when donning SAFER 1005 specifically related to the tower latch mechanism?
- Did you notice any difference between donning of SAFER 1005 and 1007 or any difference between the donning for the two EVAs?
- During the EVA, when you first noticed the left tower, what was its configuration?
- Did you notice anything that could have bumped the SAFER towers during the EVA?
- During Post EVA, did you notice any issues when doffing SAFER 1005?

We may have further words for SAFER donning in preparation for EVA 3. Also, please keep in mind that you have SAFER 1003 in reserve should you feel SAFER 1005 is non-useable during EVA 3 donning.

### 3. EMU WATER RECHARGE

Please provide the following information during 1.505 EMU Water Recharge, ISS EVA Systems Checklist, page 236, step 18:

- a) Record the time sw PUMP -> ON
- b) At 5 minutes of pump run time, report the quantity displayed on the IRU.

This information is requested in support of an engineering investigation on the Inflight Refill Unit (IRU).