STS-114/LF1

FD 04 Execute Package

MSG	Page(s)	Title
026B	1 - 16	FD04 Flight Plan Revision **(pdf)**
027	17 - 18	FD04 Mission Summary **(pdf)**
028	19	SAFER Pressure Check **(pdf)**
030	---	FD03 MMT Summary **(pdf - Electronic Only)**
031	20	DTO Notes for EVA 1 **(pdf)**
032	---	FD04 PAO Event Summary **(pdf - Electronic Only)**
033	21	FD04 Transfer Message **(pdf)**
035	22	MPLM GLA Scavenge Plan for LF1 **(pdf)**

Approved by FAO: *L. DeLapp*
OPS Plan: *J. Aldape*

Last Updated: Jul 29 2005 2:22AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX

MSG NO.	TITLE
26	FD04 Flight Plan Revision
27	FD04 Mission Summary (11-0655)
28	SAFER Pressure Check
30	FD03 MMT Summary (11-0657) (Electronic Only)
31	DTO Notes for EVA 1
32	FD04 PAO Event Summary
33	FD04 Transfer Message
34	FD04 Focused Inspection Procedure (To Be Uplinked Later in FD04)
35	MPLM GLA Scavenge Plan for LF1 (11-0643)

1. Post Sleep Cryo Config

   R1 CRYO O2, H2 MANF VLV TK2 (two) - OP (tb- OP)

   A11 CRYO TK4 HTR O2 B - OFF

2. For the H2O activities on CDR:

   There are two CWC fills scheduled for today, and one scheduled for tomorrow while hatches are closed. Retrieve three CWCs from among those with the following S/Ns: 1007, 1012, 1017, 1020, 1028, 1038, 1040, 1046, 1047. They are located at ISS NOD1P2 (in the M-02 bag). Use CWC FILL in SHUTTLE/ISS H2O CONTAINER FILL (ORB OPS,ECLS), p. 5–26. Silver biocide will be the only additive for today's two fills, and neither fill requires a sample. The first of the two CWC fills is scheduled for MET 2/16:00, and the second fill is scheduled to start at MET 2/21:40. Fill durations for both CWCs are 56 minutes. Following both fills, the two CWCs should be transferred to ISS Docking Compartment 1.

3. During the playback of RPM and docking video on FD3, some of the video showed overlayed tape counter text from the DTV DSR20 VTR. We agree with your limited use of the DSR20 since the IFM replacement but we recommend a configuration change for the V10 VTR that is used as the DTV monitor. When recording DTV video with this V10, change the video source from VTR MON to VTR OUT. VTR OUT does not contain the overlayed text.

   Also during the playback, some smudges were noticed on the camcorder lens or wide conversion lens. Please check all lenses and clean accordingly.

   INCO would also like a 5 minute heads-up on which video downlink path is planned for future downlink so they can configure the system.

4. The WLES system continues to function nominally and the WLES team has been successfully downlinking data and status from the system. The temperatures have been slightly above predictions, but we continue to monitor it. Currently, the starboard wing units are predicted to get too cold to operate sometime between now (Flight Night 3) and late Flight Day 4 and warm up again about Flight Day 11. Port wing temperatures look good until about Flight Day 11.

5. Our current cryo margins are 16 hours O2 limited. Great job conserving cryo!

   To help us get the extra docked day we ask that you minimize lighting, PGSC, IDP, and MDU use whenever possible and turn off the galley fan when not in use.

   Any additional help you can provide would be greatly appreciated.

6. FD4 Exercise Constraints:

   A reminder that no exercise is permitted from MPLM preinstall position until completion of Node 1 Nadir CBM Capture/ABOLTS.

7. REPLACE PAGES 2-8A THROUGH 2-9B AND 3-32 THROUGH 3-41.

07/28/05 21:07:25 **REPLANNED**

GMT 07/29/05 (210) 12 13 14 15 16 17 18 19 20 21 22 23 003/00 (03 04 05 06 07 08 09 10 11 12 13 14)

MET Day 002

STS-114	CDR COLLINS	SLEEP; **FD04** POST SLEEP; APCU*; POST SLEEP; APCU*; POST SLEEP; CWC INIT 3; PCBM*; CWC TERM; MEAL; PAO A/G; EXERCISE; CWC INIT 4; CWC TERM; XFER 2 CWC; EVA PROC REVW
STS-114	PLT KELLY	SLEEP; SALIVA; POST SLEEP; MPLM INSTL GRPL; MPLM UNBTH; MPLM INSTL; MPLM INSTL; MEAL; LIMP; MEAL; BRAKE; UNGRP; MBS GRAPPLE; LAB UNGRPL; MNVR TO SRVY SPT; OBSS SURVEY
STS-114	MS1 NOGUCHI	SLEEP; POST SLEEP - GIRA; MDDK PREP; REBA H/W; REBA H/W; BSA-T; EVA TOOL CONFG; VERIF; CBM 1ST STG; CBM 2ND STG/ ABOLTS; MEAL; EVA TOOL CONFG; EVA CAMR; MDDK XFER; EXERCISE; EVA PROC REVW
STS-114	MS2 ROBINSON	SLEEP; POST SLEEP; MDDK PREP; REBA H/W; REBA H/W; BSA-T; EVA TOOL CONFG; VERIF; CBM 1ST STG; CBM 2ND STG/ ABOLTS; MEAL; EVA TOOL CONFG; EVA CAMR; MDDK XFER; EXERCISE; MDDK XFER; EVA PROC REVW
STS-114	MS3 THOMAS	SLEEP; POST SLEEP; SRMS MPLM; POST SLEEP; PRLA; POST SLEEP; EVA TOOL CONFG; DCS; CHRG; N2 XFER S/U; MDDK XFER; MEAL; PAO A/G; EVA TOOL CONFG; MDDK XFER; EXERCISE; MDDK XFER; EVA PROC REVW
STS-114	MS4 LAWRENCE	SLEEP; SALIVA; LOG; POST SLEEP; MPLM INSTL GRPL; MPLM UNBTH; MPLM INSTL; MPLM INSTL; MEAL; LIMP; MEAL; BRAKE; UNGRP; MDDK XFER; VEST PRESS; MPLM VEST
STS-114	MS5 CAMARDA	SLEEP; SALIVA; LOG; POST SLEEP; SRMS MPLM; LCC; POST SLEEP; PRLA; POST SLEEP; LCC; POST SLEEP; RMSHTR; N2 XFER S/U; MDDK XFER; N1 NDR CBCS RMV; MEAL; DOUG RVW; OBSS SURVEY
ISS	ISS CDR KRIKALEV	SLEEP; POST SLEEP; DPC; PREP WORK; TVIS; MPLM EQUIP S/U; COK; MIDDAY-MEAL; VEST PRESS; MPLM VEST
ISS	FE-1 PHILLIPS	SLEEP; POST SLEEP; DPC; ♣; PREP WORK; EXERCISE RED; N2 XFER S/U; MIDDAY-MEAL; MBS GRAPPLE; LAB UNGRPL; MNVR TO SRVY SPT; MDDK XFER; TVIS

DAY/NIGHT

ORBIT 41 42 43 44 45 46 47 48

TDRS E -46.0 W -171.0 Z -275.0

ORB ATT BIAS -XLV -ZVV

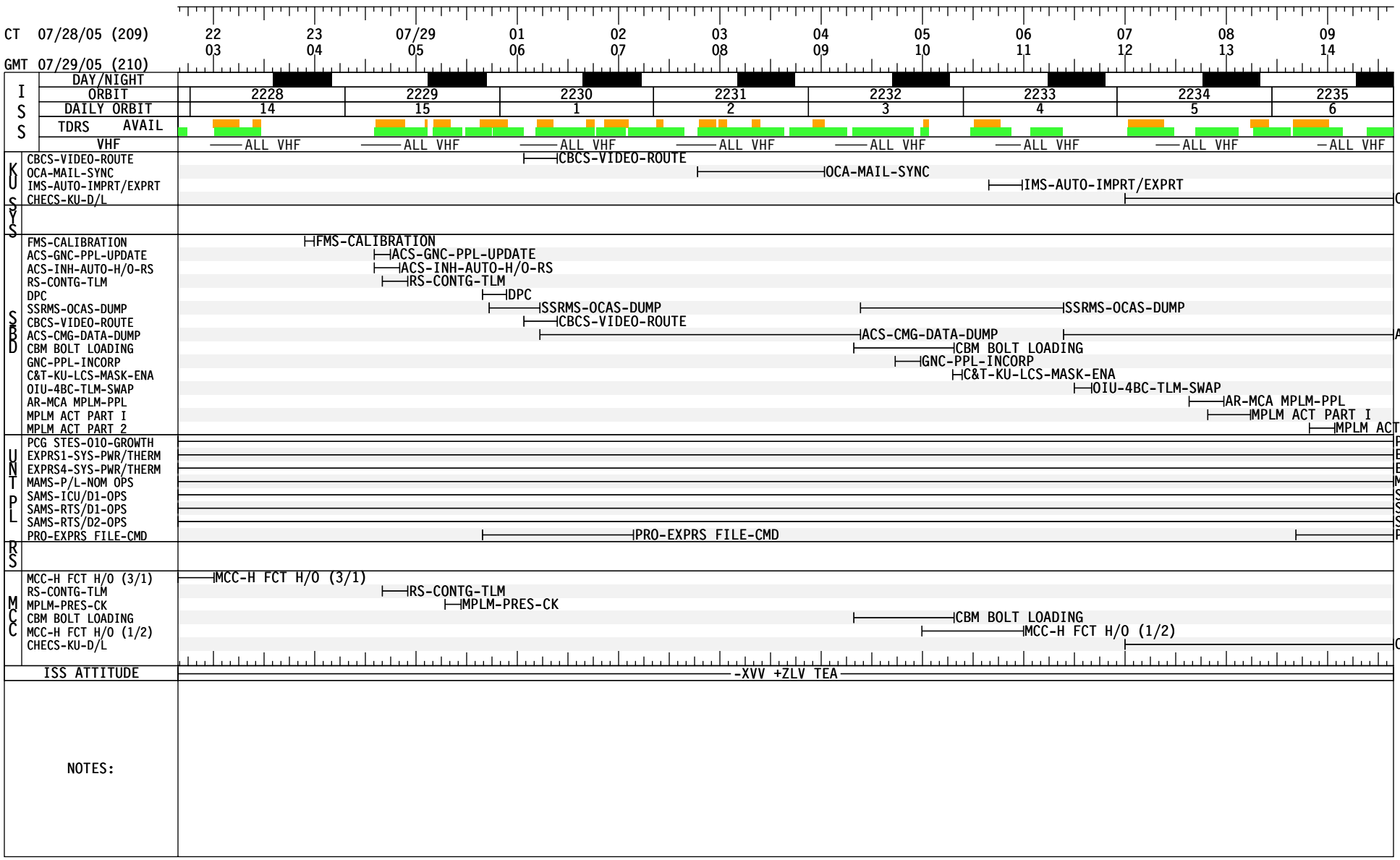
NOTES *ACT ♣CBCS P/U *INSPECT *DEACT

2-8A

FLT PLN/114/FLIGHT

07/28/05 21:07:25

ISS-11 SHORT TERM PLAN PAYLOAD PAGE



NOTES:

07/28/05 21:07:25 **REPLANNED**

GMT 07/29/05 (210) FD4 — 15 16 17 18 19 20 21 22 23 07/30 01 02

MET Day 003 — 003/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-114	CDR COLLINS	EVA PROC REVW		EVA PROC REVW	PRE SLEEP	PREP	10.2 DPRS*	CNFG	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP
	PLT KELLY	OBSS SURVEY	MPLM EVA XFER	EVA PROC REVW	PRE SLEEP	ATTHO*	PRE SLEEP			ATTHO*	PRE SLEEP	SLEEP
	MS1 NOGUCHI	EVA PROC REVW	CRWLK PREP	EVA PROC REVW	P/B INIT	PRE SLEEP		P/B TERM	PRE SLEEP - GIRA			SLEEP
	MS2 ROBINSON	EVA PROC REVW	SAFER* CRWLK PREP	EVA PROC REVW	P/B INIT	PRE SLEEP		P/B TERM	PRE SLEEP			SLEEP
	MS3 THOMAS	EVA PROC REVW	MISSE COLLAR	EVA PROC REVW	SAFER C/O	PRE SLEEP						SLEEP
	MS4 LAWRENCE	♣ MPLM INGR	MPLM S/U	MPLM EVA XFER	EVA PROC REVW	XFER CALL	PRE SLEEP					SLEEP
	MS5 CAMARDA	OBSS SURVEY	MPLM EVA XFER	EVA PROC REVW	PRE SLEEP	PREP	10.2 DPRS*	CNFG	PRE SLEEP			SLEEP
ISS	ISS CDR KRIKALEV	♣ MPLM INGR	MPLM S/U	MPLM EVA XFER	EVA PROC REVW	DPC	VELO + HC		PRE SLEEP			SLEEP
	FE-1 PHILLIPS	EXER	ISA VAJ	CRWLK PREP	EVA PROC REVW	DPC ⊕	CREW PRE SLEEP	MPEV	PRE SLEEP PST CL CNFG	EMPEV OPEN	PRE SLEEP	SLEEP

DAY/NIGHT

ORBIT: 48 49 50 51 52 53 54 55 56

TDRS: E -46.0, W -171.0, Z -275.0

ORB ATT: BIAS -XLV -ZVV

NOTES:
♣MPLM VEST
*PRESS CK
⊕LAB-FWD-HATCH-CL
*ISS DEPR PUMP
*CMG TO STS
*STS TO CMG

FLT PLN/114/FLIGHT

07/28/05 21:07:25

ISS-11 SHORT TERM PLAN PAYLOAD PAGE

CT 07/29/05 (210) 10 11 12 13 14 15 16 17 18 19 20 21

GMT 07/29/05 (210) 15 16 17 18 19 20 21 22 23 07/30 01 02

ISS

DAY/NIGHT	
ORBIT	2235 2236 2237 2238 2239 2240 2241 2242 2243
DAILY ORBIT	6 7 8 9 10 11 12 13 14
TDRS AVAIL	
VHF	-ALL VHF ALL VHF ALL VHF ALL VHF

KU SYS

CHECS-KU-D/L	CHECS-KU-D/L CHECS-KU-D/L
PIP-TOOL-SYNC	PIP-TOOL-SYNC
LOCK-OPS-RECORDER	LOCK-OPS-RECORDER
OCA-MAIL-SYNC	OCA-MAIL-SYNC OCA-MAIL-SYNC
IMS-AUTO-IM/EX W/PIP	IMS-AUTO-IM/EX W/PIP

SYS

ACS-GPS-ATT-SEL-INH	ACS-GPS-ATT-SEL-INH

SBD

ACS-CMG-DATA-DUMP	ACS-CMG-DATA-DUMP
AR-MCA-AUTOSEQUENCE	AR-MCA-AUTOSEQUENCE
C&T-VIDEO-DECONFG	C&T-VIDEO-DECONFG
RS-CONTG-TLM	RS-CONTG-TLM RS-CONTG-TLM RS-CONTG-TLM
C&T-KU-LCS-MASK-INH	C&T-KU-LCS-MASK-INH
CPO-MAMS DATA-D/L	CPO-MAMS DATA-D/L
MSS-POWERDOWN	MSS-POWERDOWN
N1-MTL-RCNFG	N1-MTL-RCNFG N1-MTL-RCNFG
IMV FAN & VLV-CNFG	IMV FAN & VLV-CNFG
DPC	DPC
ACS-CMG/STS ATT-H/O	ACS-CMG/STS ATT-H/O
LOCK-OPS-RECORDER	LOCK-OPS-RECORDER
C/L DPRS TO 2 PSI	C/L DPRS TO 2 PSI
CL DEPRESS TO VACUUM	CL DEPRESS TO VACUUM
ACS-STS/CMG ATT-H/O	ACS-STS/CMG ATT-H/O
ACS-AH-MOM-MGMT-USTO	ACS-AH-MOM-MGMT-USTO
CMG-SAT-THRSHOLD	CMG-SAT-THRSHOLD
ACS-ENA-AUTO-H/O-RS	ACS-ENA-AUTO-H/O-RS
CHECS-COMMANDING	CHECS-COMMANDING CHECS-COMMANDING
S&M-NULL-PPL-U/L	S&M-NULL-PPL-U/L
ACS-GPS-HARDWARE-CK	ACS-GPS-HARDWARE-CK
PPS-PCU-DISCHARGE	PPS-PCU-DISCHARG
SBD-KEY-CHG	SBD-KEY-CHG

UNTPL

PCG STES-010-GROWTH	PCG STES-
EXPRS1-SYS-PWR/THERM	EXPRS1-SY
EXPRS4-SYS-PWR/THERM	EXPRS4-SY
MAMS-P/L-NOM OPS	MAMS-P/L-
SAMS-ICU/D1-OPS	SAMS-ICU/
SAMS-RTS/D1-OPS	SAMS-RTS/
SAMS-RTS/D2-OPS	SAMS-RTS/
PRO-EXPRS FILE-CMD	PRO-EXPRS FILE-CMD PRO-EXPRS FILE-CMD
CPO-MAMS DATA-D/L	CPO-MAMS DATA-D/L

RS

MCC

CHECS-KU-D/L	CHECS-KU-D/L CHECS-KU-D/L
RS-CONTG-TLM	RS-CONTG-TLM RS-CONTG-TLM RS-CONTG-TLM
MCC-H FCT H/O (2/3)	MCC-H FCT H/O (2/3)
ACS-AH-MOM-MGMT-USTO	ACS-AH-MOM-MGMT-USTO
CHECS-COMMANDING	CHECS-COMMANDING CHECS-COMMANDING
MCC-H FCT H/O (3/1)	MCC-H FCT

ISS ATTITUDE	-XVV +ZLV TEA
	*CMG TO STS *STS TO CMG

NOTES:

STS-114 LF1 (FD 04)

REPLANNED

GMT Date 07/29 (210) | TDRS E W Z | ORB | MET Day 002 | STS ATI

FD04

12:00 — 13:00 — 14:00 — 15:00 — 16:00

03:00 — 04:00 — 05:00 — 06:00

ORB: 41, 42, 43

STS ATI: BIAS-XLV-ZVV

CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
SLEEP	SLEEP	SLEEP	SLEEP	
	SALIVA COLLECT (ORB OPS, DSO)			
	FD04 EZ ACTIVITIES HARD REBOOT PGSCs (not WLES) OCAC FILTER INSPECT TEPC (STATUS CK) (ORB OPS, CREW SYS) L17 Check MCIU Filter Screen MS4: IF PMZ Req'd, PMZ Protocol (ORB OPS, DSO)			
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	TFL 184
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	GALLEY MORNING CONFIG (ORB OPS, ECLS)		
APCU ACT A	A ON MCC GO: SSP1 (L12) APCU 2 CONV-OFF (tb-bp) APCU 1 OUTPUT RLY-CL APCU 2 CONV-ON (tb-gray)			UPLINK AT 14:35 β 21°+C1,C2,C3+D1 BOX C1 -19<AZ<52 -67<EL<75 BOX C2 -41<AZ<-10 -25<EL<39 BOX C3 -72<AZ<-36 -4<EL<33 BOX D1 -80<AZ<5 -90<EL<-54 TFL 199
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	B ON MCC GO: SSP1 (L12) APCU 2 CONV-OFF (tb-bp) APCU 1 OUTPUT RLY-OP APCU 2 CONV-ON (tb-gray)			
APCU DEACT B	2.610 CONT BERTHED MPLM GRAPPLE (ROBOTICS, CONT OPS)	MIDDECK PREP (EVA, EVA PREP) Use HL batts per EMU Consumables CC	MIDDECK PREP (EVA, EVA PREP) Use HL batts per EMU Consumables CC	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	2.611 CONT MPLM UNBERTH (ROBOTICS, CONT OPS) Steps 1-4,9,11	REBA POWERED H/W CHECKOUT (EVA, CHECKOUTS)	REBA POWERED H/W CHECKOUT (EVA, CHECKOUTS)	
		REBA POWERED H/W CHECKOUT (EVA, CHECKOUTS) C/O B/U Htrs, Reinstall prime gloves	REBA POWERED H/W CHECKOUT (EVA, CHECKOUTS) C/O B/U Htrs, Reinstall prime gloves	

STS-114 LF1 (FD 04)

REPLANNED

GMT Date 07/29 (210) | TDRS E W Z | ORB | MET Day 002 | STS ATI

FD04

MS3 THOMAS	MS4 LAWRENCE	MS5 CAMARDA	MCC
SLEEP	SLEEP	SLEEP	
	SALIVA COLLECT (ORB OPS, DSO) FLIGHT SLEEP LOG (ORB OPS, DSO)	SALIVA COLLECT (ORB OPS, DSO) FLIGHT SLEEP LOG (ORB OPS, DSO)	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
OBSS MNVR FROM CMG R&R TO MPLM VIEWING (PDRS, NOMINAL)	CONFIG DTV FOR DNLK L10(MUX) √MUX BYPASS - ACT MUX/VTR/CC PWR - ON	OBSS MNVR FROM CMG R&R TO MPLM VIEWING (PDRS, NOMINAL)	1.101 MPLM ENVIRONMENT CHECK (MPLM, NOMINAL) Steps 1 & 4 Note: Pressure Check (NO fan)
	2.610 CONT BERTHED MPLM GRAPPLE (ROBOTICS, CONT OPS)	LCS: LCC ACTIVATION Step 3 (PHOTO/TV, CUE CARDS)	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
2.611 CONT MPLM UNBERTH (ROBOTICS, CONT OPS)Steps 1,4-8,10	2.611 CONT MPLM UNBERTH (ROBOTICS, CONT OPS) Steps 1-4,9,11	2.611 CONT MPLM UNBERTH (ROBOTICS, CONT OPS)Steps 1,4-8,10	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	

Time scale: 12:00, 13:00, 14:00, 15:00, 16:00; 03:00, 04:00, 05:00, 06:00

ORB: 41, 42, 43

BIAS-XLV-ZVV

STS-114 LF1 (FD 04)

REPLANNED

GMT Date 07/29 (210) | TDRS E W Z | ORB 43 44 45 46 | MET Day 002 | STS ATI BIAS-XLV-ZVV

MET	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
16:00	SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #3 REF. MSG 026 ITEM 2	2.611 CONT MPLM UNBERTH (ROBOTICS, CONT OPS) Steps 1-4,9,11	1.605 BSA BATTERY RECHARGE(TERM) (ISS EVA SYS, BATTERY OPS) B	1.605 BSA BATTERY RECHARGE(TERM) (ISS EVA SYS, BATTERY OPS) B	
			EVA 1 TOOL CONFIG (EVA, EVA 1)	EVA 1 TOOL CONFIG (EVA, EVA 1)	
07:00	3.124 ACTIVE AND PASSIVE CBM INSPECTION CRITERIA (JOINT OPS, MATED OPS)	2.612 CONT MPLM INSTALL (ROBOTICS, CONT OPS) Steps 1-5	B STEPS 16-21 Transfer PGT Batts to STS when complete		
17:00		2.612 CONT MPLM INSTALL (ROBOTICS, CONT OPS) Steps 6-8 NOTE: NO Exercise	1.505 N1 CBM VERIFY PREMATE STATUS (S&M, NOMINAL)	1.505 N1 CBM VERIFY PREMATE STATUS (S&M, NOMINAL)	
08:00	SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Report Barcode & S/N to MCC		1.506 N1 CBM CAPTURE/ABOLT (S&M, NOMINAL) Steps 1-3 NOTE: No Exercise	1.506 N1 CBM CAPTURE/ABOLT (S&M, NOMINAL) Steps 1-3 NOTE: No Exercise	
		MEAL			
		2.612 CONT MPLM INSTALL Step 9 (ROBOTICS, CONT OPS)	1.506 N1 CBM CAPTURE/ABOLT (S&M, NOMINAL) Steps 4-6 NOTE: No Exercise	1.506 N1 CBM CAPTURE/ABOLT (S&M, NOMINAL) Steps 4-6 NOTE: No Exercise	
18:00					
09:00		MEAL			
		2.612 CONT MPLM INSTALL Steps 10,11 (ROBOTICS, CONT OPS)			UPLINK β21°+C1,C2,C3+W1 BOX C1 -19<AZ<52 -67<EL<75 BOX C2 -41<AZ<-10 -25<EL<39 BOX C3 -72<AZ<-36 -4<EL<33 BOX W1 -129<AZ<0 -90<EL<43
		2.613 CONT MATED MPLM UNGRAPPLE (ROBOTICS, CONT OPS)			
19:00		2.430 CONT WS4 MBS PDGF 1 GRAPPLE (ROBOTICS, CONT OPS)			
	MEAL		MEAL	MEAL	
10:00					
	PAO VOICE CHECK/EVENT (A/G) REF MSG 032	2.431 CONT LAB PDGF UNGRAPPLE (ROBOTICS, CONT OPS)			
20:00					

STS-114 LF1 (FD04)

REPLANNED

GMT Date 07/29 (210) | TDRS E W Z | ORB 43 44 45 46 | MET Day 002 | STS ATI BIAS-XLV-ZVV

MS3 THOMAS

16:00
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
EVA 1 TOOL CONFIG
(EVA, EVA 1)

17:00
DCS BATT CHARGING
(PHOTO/TV, BATTS & FUSES)
Charge 2 Batts/1 Charger/3hrs
3.102 NITROGEN TRANSFER INIT
(JOINT OPS, MATED OPS)
Perform Steps 1-4 ONLY
When complete, perform:
R13L MMU GN2 SPLY
ISOL VLV A - CL
ODS GN2 XFER PNL
FLOW VLV - CL

18:00
TRANSFER
Ref. MDDK TRANSFER LIST

MEAL

19:00
PAO VOICE CHECK/EVENT (A/G)
REF MSG 032

20:00

MS4 LAWRENCE

2.611 CONT MPLM UNBERTH
(ROBOTICS, CONT OPS)
Steps 1-4,9,11

2.612 CONT MPLM INSTALL
(ROBOTICS, CONT OPS)
Steps 1-5

2.612 CONT MPLM INSTALL
(ROBOTICS, CONT OPS)
Steps 6-8
NOTE: NO Exercise

MEAL

2.612 CONT MPLM INSTALL Step 9
(ROBOTICS, CONT OPS)

MEAL

2.612 CONT MPLM INSTALL
(ROBOTICS, CONT OPS)Steps 10,11
2.613 CONT MATED MPLM UNGRAPPLE
(ROBOTICS, CONT OPS)

TRANSFER
Ref. MDDK TRANSFER LIST

1.102 N1 TO MPLM VEST PRESS AND LEAK CHECK
(MPLM, NOMINAL)

MS5 CAMARDA

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
LCS: LCC DEACTIVATION
(PHOTO/TV, CUE CARDS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
A8L √PORT RMS HTR (two) - AUTO
3.102 NITROGEN TRANSFER INIT
(JOINT OPS, MATED OPS)
Perform Steps 1-4 ONLY
When complete, perform:
R13L MMU GN2 SPLY
ISOL VLV A - CL
ODS GN2 XFER PNL
FLOW VLV - CL

TRANSFER
Ref. MDDK TRANSFER LIST

1.403 N1 NADIR CBCS REMOVAL-SSRMS
(S&M, NOMINAL)
Steps 12-14

MEAL

MCC

1.507 NODE 1 CBM BOLT LOADING
(S&M, NOMINAL)

STS-114 LF1 (FD04)

REPLANNED

GMT Date 07/29 (210) | TDRS E W Z | ORB | MET Day 002 | STS ATI

11:00 12:00 13:00 14:00

ORB: 46 47 48

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

BIAS-XLV-ZVV

CDR COLLINS

EXERCISE

SHUTTLE/ISS H2O CONT FILL
(ORB OPS, ECLS) INIT #4
REF. MSG 026 ITEM 2

SHUTTLE/ISS H2O CONT FILL
(ORB OPS, ECLS) TERM
Report Barcode & S/N to MCC

CWC TRANSFER
Xfer 2 CWC bags to ISS

EVA 1 BRIEFING CARD
(EVA, EVA 1)

PLT KELLY

2.431 CONT LAB PDGF UNGRAPPLE
(ROBOTICS, CONT OPS)

2.432 CONT MNVR TO SURVEY SUPPORT VIEW POSITION
(ROBOTICS, CONT OPS)
Steps 1-4

OBSS SURVEY
Ref. MSG 034

MS1 NOGUCHI

EVA 1 TOOL CONFIG
(EVA, EVA 1)

SETUP: 760 EVA-CAMR W/FLASH
(PHOTO/TV, DCS 760 EVA)
Use 50mm EVA Lens
SETUP (F5 EVA CAMR)
(PHOTO/TV, NIKON F5)
Use 28mm EVA Lens

TRANSFER
Ref. MDDK TRANSFER LIST

EXERCISE

EVA 1 BRIEFING CARD
(EVA, EVA 1)

MS2 ROBINSON

EVA 1 TOOL CONFIG
(EVA, EVA 1)

SETUP: 760 EVA-CAMR W/FLASH
(PHOTO/TV, DCS 760 EVA)
Use 50mm EVA Lens
SETUP (F5 EVA CAMR)
(PHOTO/TV, NIKON F5)
Use 28mm EVA Lens

TRANSFER
Ref. MDDK TRANSFER LIST

EXERCISE

TRANSFER
Ref. MDDK TRANSFER LIST

EVA 1 BRIEFING CARD
(EVA, EVA 1)

MCC

UPLINK
β 21° +C1,C2,C3+S1
BOX C1
-19<AZ<52
-67<EL<75
BOX C2
-41<AZ<-10
-25<EL<39
BOX C3
-72<AZ<-36
-4<EL<33
BOX S1
-129<AZ<-10
-25<EL<43

STS-114 LF1 (FD 04)

REPLANNED

GMT Date 07/29 (210) | TDRS E W Z | ORB | MET Day 002 | STS ATI

MS3 THOMAS | MS4 LAWRENCE | MS5 CAMARDA | MCC

20:00

EVA 1 TOOL CONFIG
(EVA, EVA 1)

1.102 N1 TO MPLM VEST PRESS AND LEAK CHECK
(MPLM, NOMINAL)

DOUG REVIEW

OBSS SURVEY
Ref. MSG 034

11:00

46

TRANSFER
Ref. MDDK TRANSFER LIST

1.108 MPLM VESTIBULE-CONFIG FOR INGRESS
(S&M, NOMINAL)
Activate MPLM on ISS PWR

21:00

12:00

BIAS-XLV-ZVV

22:00

47

EXERCISE

1.103 MPLM ACTIVATION
(MPLM, NOMINAL)
STEPS 1-2,4-10
REF. MSG 012A

13:00

TRANSFER
Ref. MDDK TRANSFER LIST

23:00

1.103 MPLM ACTIVATION
(MPLM, NOMIMAL)
STEP 11
REF. MSG 012A

14:00

48

EVA 1 BRIEFING CARD
(EVA, EVA 1)

00:00

STS-114 LF1 (FD04)

REPLANNED

GMT Date 07/29 (210) | TDRS E W Z | ORB 48 49 50 51 | MET Day 003 | STS ATI BIAS-XLV-ZVV

CDR COLLINS

- EVA 1 BRIEFING CARD (EVA, EVA 1)
- EVA 1 BRIEFING CARD (EVA, EVA 1)
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- PREP FOR 10.2 PSI CABIN (EVA, 10.2 PSI CABIN)
  Delete Step 4
  MCC will TMBU S/W limits
- 3.125 SHUTTLE/ISS CREWLOCK DPRS USING ISS DPRS PUMP (JOINT OPS, MATED OPS)
  Start with Step 3
- 10.2 PSIA CABIN CONFIG (EVA, 10.2 PSI CABIN)
  Delete Step 5
  MCC will TMBU S/W limits
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- 06 UHF MODE - OFF
  A/G PRIVATE MEDICAL CONFERENCE

PLT KELLY

- OBSS SURVEY
  Ref. MSG 034
- TRANSFER
  Ref. MPLM TRANSFER LIST
  Transfer EVA tools from MPLM
  Item #111,118,125,126,129,160.1, 169
- EVA 1 BRIEFING CARD (EVA, EVA 1)
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- 3.110 H/O ATT CONTROL CMG TO ORB (JOINT OPS, MATED OPS)
- LDRI STATUS CHECK:
  R12(VPU) Green Jumper - LDRI/ITVC
  R12(OBSS) ITVC ENA - ON
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- On MCC GO:
  3.111 H/O ATT CONTROL ORB TO CMG (JOINT OPS, MATED OPS)

MS1 NOGUCHI

- EVA 1 BRIEFING CARD (EVA, EVA 1)
- CREWLOCK TOOL STOWAGE (EVA, TOOLS AND STOWAGE)
- EVA 1 BRIEFING CARD (EVA, EVA 1)
- MASK PREBREATHE INITIATE (EVA, 10.2 PSI CABIN)
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- MASK PREBREATHE TERMINATE (EVA, 10.2 PSI CABIN)
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)

MS2 ROBINSON

- EVA 1 BRIEFING CARD (EVA, EVA 1)
- SAFER PRESSURE CHECK
  Ref. MSG 028
- CREWLOCK TOOL STOWAGE (EVA, TOOLS AND STOWAGE)
- EVA 1 BRIEFING CARD (EVA, EVA 1)
- MASK PREBREATHE INITIATE (EVA, 10.2 PSI CABIN)
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- MASK PREBREATHE TERMINATE (EVA, 10.2 PSI CABIN)
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MCC

STS-114 LF1 (FD04)

REPLANNED

GMT Date 07/29 (210) | TDRS E W Z | ORB 48 49 50 51 | MET Day 003 | STS ATI BIAS -XLV -ZVV

MS3 THOMAS	MS4 LAWRENCE	MS5 CAMARDA	MCC
EVA 1 BRIEFING CARD (EVA, EVA 1)	1.108 MPLM VESTIBULE-CONFIG FOR INGRESS (S&M, NOMINAL) 1.104 MPLM INGRESS (MPLM, NOMINAL) Steps 1-6 MPLM SETUP FOR TRANSFER Ref. MPLM TRANSFER LIST	OBSS SURVEY Ref. MSG 034	
MISSE 5 IVA CLAMP/POINTER COLLAR INSTALLATION (ASSY OPS, ASSEMBLY)	TRANSFER Ref. MPLM TRANSFER LIST Transfer EVA tools from MPLM Item #111,118,125,126,129,160.1, 169	TRANSFER Ref. MPLM TRANSFER LIST Transfer EVA tools from MPLM Item #111,118,125,126,129,160.1, 169	
EVA 1 BRIEFING CARD (EVA, EVA 1)	EVA 1 BRIEFING CARD (EVA, EVA 1)	EVA 1 BRIEFING CARD (EVA, EVA 1)	
SAFER CHECKOUT (EVA, CHECKOUTS) C/O Safer 1005	DAILY TRANSFER BRIEFING	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
		PREP FOR 10.2 PSI CABIN (EVA, 10.2 PSI CABIN) Delete Step 4 MCC will TMBU S/W limits	
		3.125 SHUTTLE/ISS CREWLOCK DPRS USING ISS DPRS PUMP (JOINT OPS, MATED OPS) Start with Step 3	
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	10.2 PSIA CABIN CONFIG (EVA, 10.2 PSI CABIN) Delete Step 5 MCC will TMBU S/W limits	
√ HUM SEP FOR H2O ACCUMULATION		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	

STS-114 LF1 (FD 04)

REPLANNED

GMT Date 07/29 (210) | TDRS E W Z | ORB | MET Day 003 | STS ATI

04:00	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
06 √UHF MODE - OFF A/G PRIVATE MEDICAL CONFERENCE					
19:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
05:00					
20:00					
06:00					
21:00	SLEEP	SLEEP	SLEEP	SLEEP	
07:00					
22:00					
08:00					

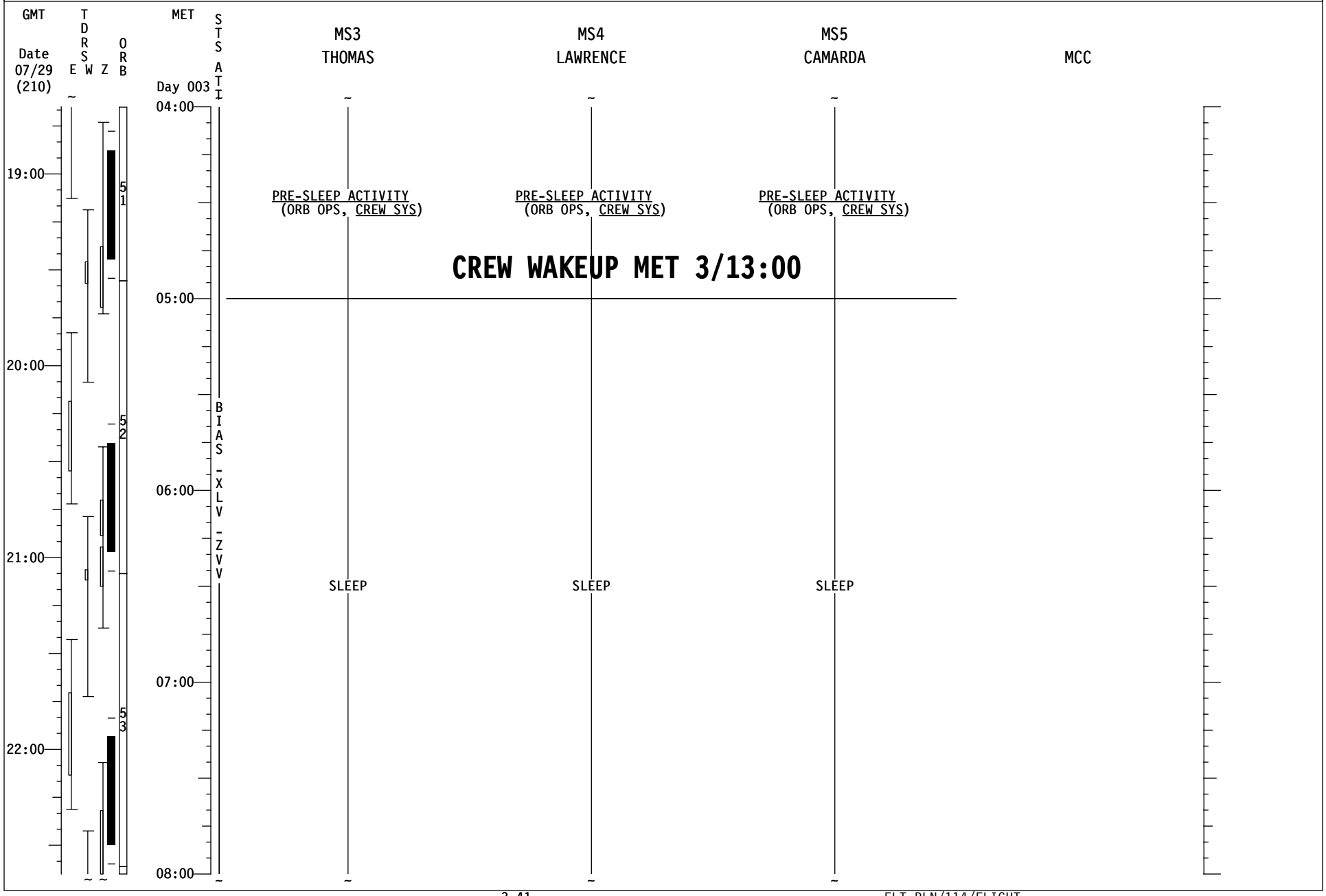
ORB: 51, 52, 53

BIAS -XLV -ZVV

CREW WAKEUP MET 3/13:00

STS-114 LF1 (FD 04)

REPLANNED



Good Morning Discovery!

Your rendezvous and RPM yesterday were flawless. You have set a standard that will be hard to surpass!

Now, you might be thinking, what could top the excitement of arriving at ISS? Well, the best is yet to come-and that is Transfer Ops!

The sites for today's inspection are not in this morning's execute package. Analysis of all the imagery data is ongoing. We plan on having all sites and procedures on board before the scheduled DOUG review.

We are considering options for extending docked ops by one day. Right now, the limiting consumable is O2. Any power savings you can do will be greatly appreciated!

Have a great time working and visiting with the ISS crew!

ISS Summary

1. The ISS "Auto Handover to the Russian Segment" capability will be enabled each flight night until CMG 2 is available for the ISS Steering law, predicted to be sometime FD6, after the CMG Patch Panel Reconfig on EVA1. This allows redundancy for attitude control failover on ISS, since there are only 2 CMGs currently in the Steering Law, and thus reduces the possibility that you would need to be awakened at night to have the Orbiter take attitude control. The "Auto Handover" capability is nominally disabled during the day since you are available to take attitude control.

2. ISS to Shuttle video is currently not available since the the video system is in the stage configuration. The ISS team has a plan in work to configure this in the morning to allow ISS to Shuttle video capability.

YOUR CURRENT ORBIT IS: 193 X 187 NM

NOTAMS:

EDWARDS (EDW) – LAKEBED RWYS ELS ONLY - UNCERTIFIED
OCEANA (NTU) – RWY 23L/05R CLOSED
HALIFAX (YHZ) – RWY 06/24 CLOSED
GUAM (GUA) – RWY 06L/24R CLOSED
RIO GALLEGOS (AWG) – NOT APPROVED
ELMENDORF (EDF) – RWY 06/24 CLOSED
TINDAL (PTN) – RWY 14/32 CLOSED

NEXT 2 PLS OPPORTUNITIES:

NOR 17 ORB 48 - 2/23:41
NOR 17 ORB 63 - 3/22:32

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

POST-TI OMS QUANTITIES(%)

L OMS OX = 35.2 R OMS OX = 36.6
FU = 35.6 FU = 37.3

SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:	WITH MPLM	NO MPLM
OMS	328 FPS	296 FPS
ARCS (TOTAL ABOVE QTY1)	26 FPS	29 FPS
TOTAL IN THE AFT	354 FPS	325 FPS
ARCS (TOTAL ABOVE QTY2)	55 FPS	60 FPS
FRCS (ABOVE QTY 1)	36 FPS	38 FPS
AFT QTY 1	85 %	85%
AFT QTY 2	47 %	47%

SYSTEM	FAILURE	IMPACT	WORK AROUND
APDS	Capture latch manual release lever on petal 1 partially open.	No impact to mated ops or undocking.	None. The manual release lever was re-engaged into flight configuration.
DPS	Transient BITE against the secondary port of MDU CDR 2.	None.	Ground may ask for an additional power cycle of the MDU if the error condition is encountered again.
EVA	SCU 2 is difficult to lock onto DCM without canting connector.	Suited crewmembers may have difficulty connecting to SCU 2.	In case of Terminate or Abort scenario during EVA, affected crewmember should connect to SCU1. Crew option to swap SCUs at anytime if one suit is easier to connect. Notify MCC of config.

MSG 028 - SAFER PRESSURE CHECK

Due to the unknown source of increased pressure in the MPLM there is concern that SAFER 1005 may have leaked. The following steps should be performed prior to SAFER transfer to middeck on FD4.

SAFER 1005

1. √Inhibitor installed
2. Remove power switch guard
3. PWR − ON
4. √GN2% ≥ 87
5. PWR − OFF

If GN2% ≥ 87

6. Stow switch guard in foam
7. Transfer to STS A/L per Resupply Transfer List Item #169

If GN2% ≤ 87

8. Reinstall power switch guard
9. Leave SAFER 1005 in MPLM for return
10. Retrieve SAFER 1004 from ISS Airlock

SAFER 1004

11. √Inhibitor installed
12. PWR − ON
13. Report GN2%, PWR% to MCC
14. PWR − OFF
15. Transfer SAFER 1004 to STS A/L

STS-114
Data Debris Collection and Processing
FD03 MMT

July 28, 2005

MS/J. Muratore

Debris Updates Since FD02 MMT

Imagery

- New Events:
  - 7 and 8 seconds: Tyvek covers appear to impact windows 3 & 4
  - 7 seconds: Tyvek cover appears to impact R OMS POD
  - 155 seconds: Possible impact event in digital ET LO2 video vicinity of RCC starboard panels 9,10,11
    - Mass est. 0.107 lbs;
    - Candidate debris origin is Ice/Frost ramp;

      Less than 70 ft-lbs worst case estimated from DTA – Does not violate RCC certification criteria of approximately 600 ft-lbs for this debris mass
    - WLEIDS GRMS History of starboard panels 9-11 from 145s to 165s – No Impact
    - LDRI Starboard panels 9, 10, 11 shows possible scuff on each panel
  - ET sep + 18 min; Debris in field of view from crew handheld digital still

NOTE: DEBRIS EVENTS PAST 135 SECONDS ARE OUTSIDE OF THE AERODYNAMIC SENSITIVE TRANSPORT TIME (ASTT) THAT NORMALLY DEFINES THE THREAT REGION FOR THE VEHICLE

Debris Updates Since FD02 MMT (cont)

- Imagery events still under evaluations:
  - ET Bird strike
  - 66 seconds: NLGD; RPM image analysis in work
  - 129 second event (PAL Ramp): Mass Est. 0.9-1.0 lbs; Long Range tracker shows no evidence of anomaly pre-sep;
  - 138 and 148 second events (Bipod spindle/LH2 Flange)
    - outboard –y bipod closeout ~6” x 8”; substrate visible
    - 3 ft below –y bipod ~ 4”; Baseline Configuration Imagery confirms repair in that region
  - Inter-tank Flange Divots; redesigned flange closeout region; size TBD
  - LH2 Tank Acreage; 8”-10” shallow divot between LO2 feedline and press line @ XT-1848

NOTE: DEBRIS EVENTS PAST 135 SECONDS ARE OUTSIDE OF THE AERODYNAMIC SENSITIVE TRANSPORT TIME (ASTT) THAT NORMALLY DEFINES THE THREAT REGION FOR THE VEHICLE

Debris Updates Since FD02 MMT (cont)

WLEIDS

- Revision in work – Evaluating 11 potential contacts;
- Working corroboration

Radar Totals

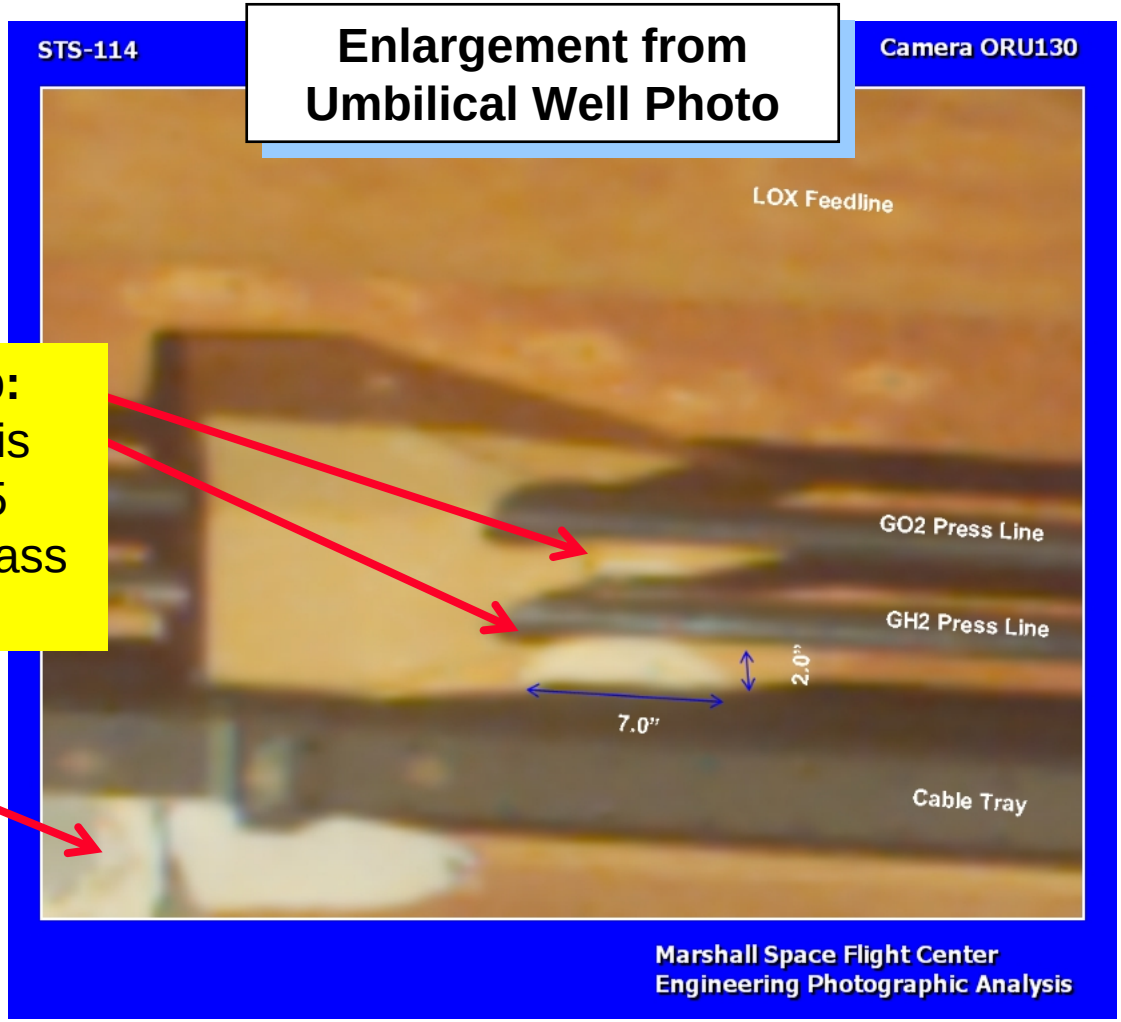
- 5 radar contacts categorized as anomalies (37s, 129s, 134s, 149s, 155s).
- 3 radar contacts corroborated with 155 sec debris event (Ice/Frost ramp); deflection of debris trajectory seen in radar track

NOTE: DEBRIS EVENTS PAST 135 SECONDS ARE OUTSIDE OF THE AERODYNAMIC SENSITIVE TRANSPORT TIME (ASTT) THAT NORMALLY DEFINES THE THREAT REGION FOR THE VEHICLE

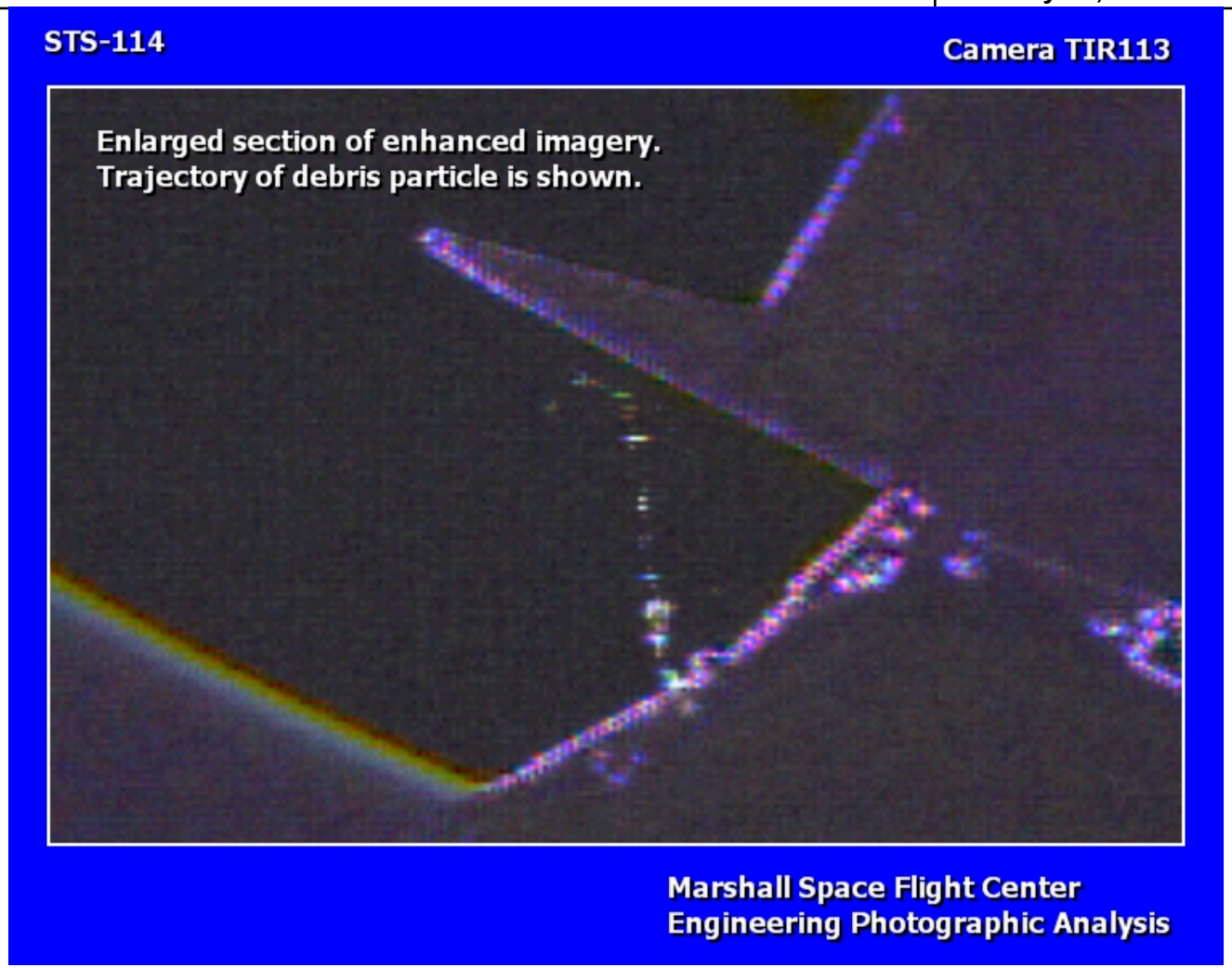
Candidate Source of 155 Second Debris Event

Ice/frost ramp: candidate debris source for 155 second event; Mass 0.107 lbs

PAL ramp: candidate debris source for 129 second event; Mass 0.9 – 1.0 lbs



Frame Average composite of 155s event



Debris Trajectory Movie	Presenter MS/J. Muratore	
	Date July 28, 2005	Page 7

Play Quick Time Movie

Inspection Findings as of FD03 MMT

LDRI

- Screening in progress.

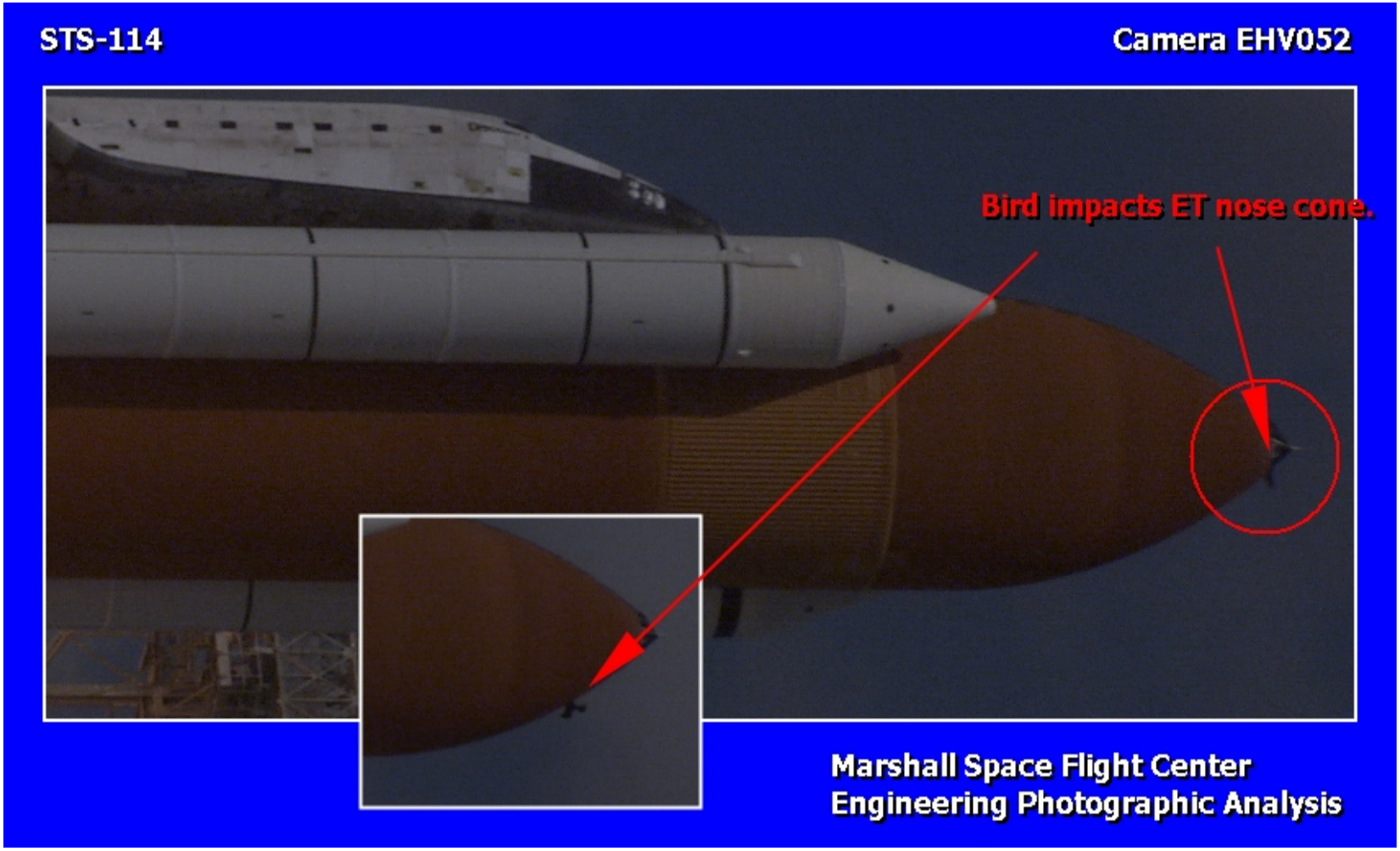
SRMS Survery of Crew Cabin

- Screening complete.

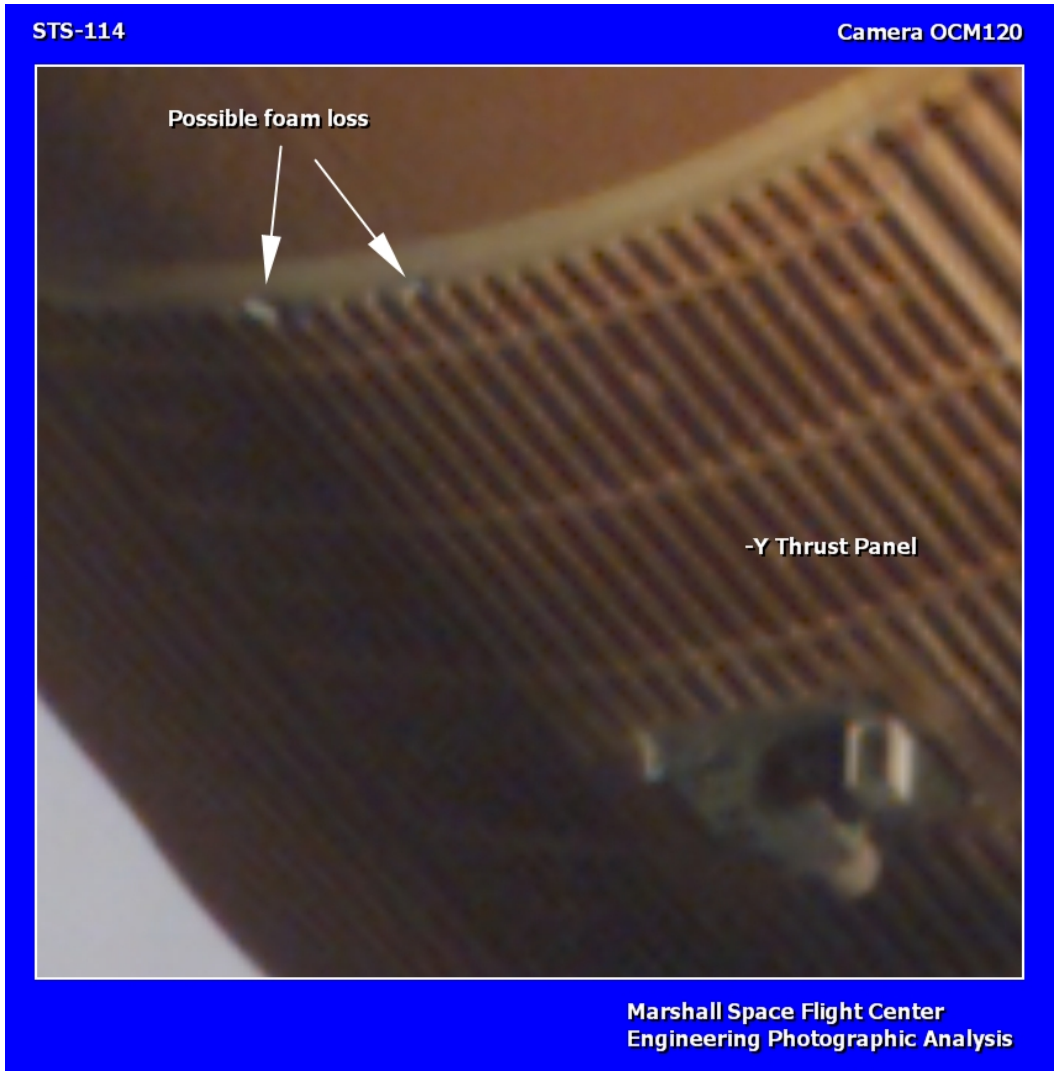
Handheld of OMS and Vertical Stabilizer

- Screening complete.

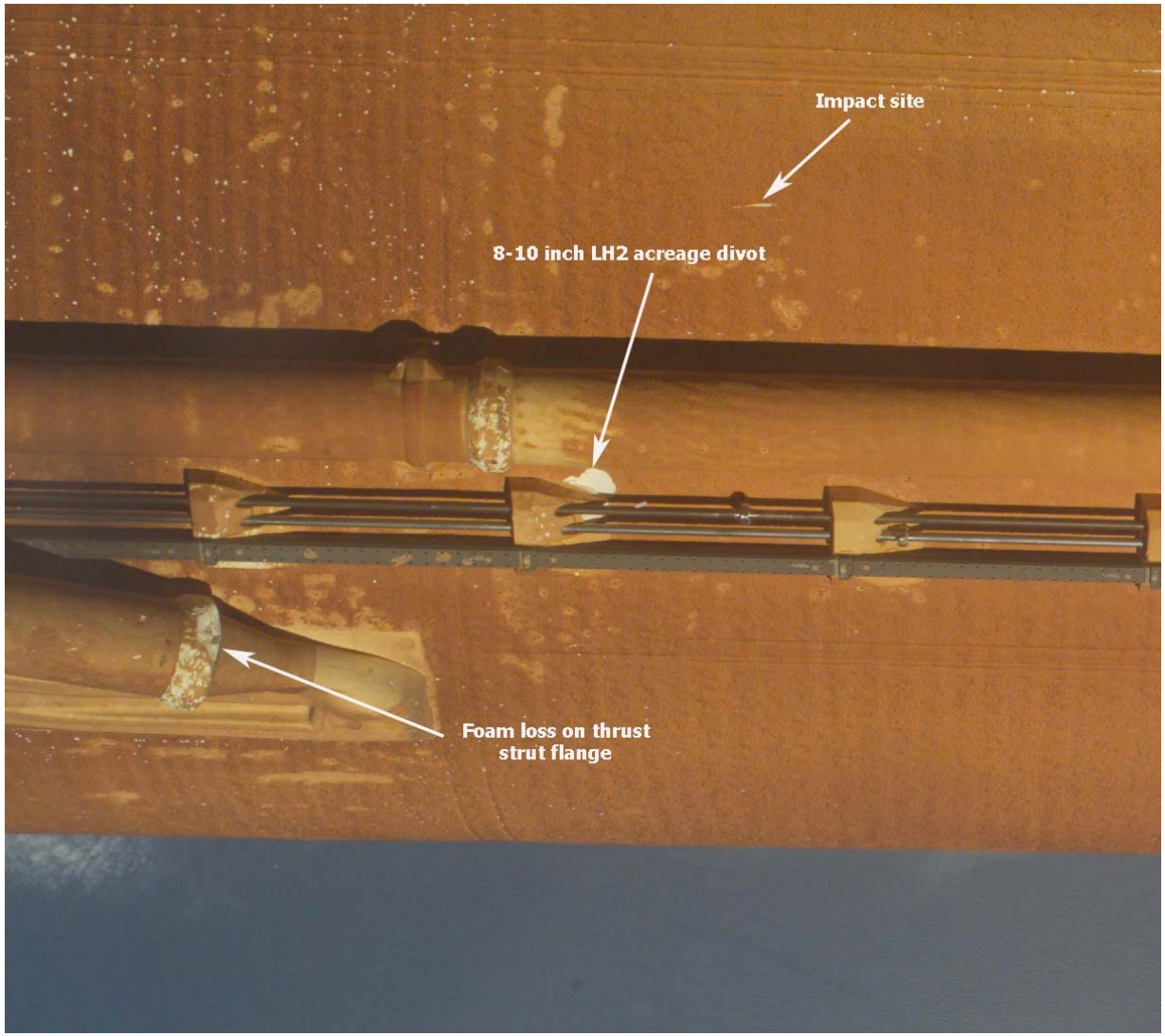
Bird Strike


STS-114
Camera EHV052
Bird impacts ET nose cone.
Marshall Space Flight Center
Engineering Photographic Analysis

ET Intertank Foam Loss Measurement

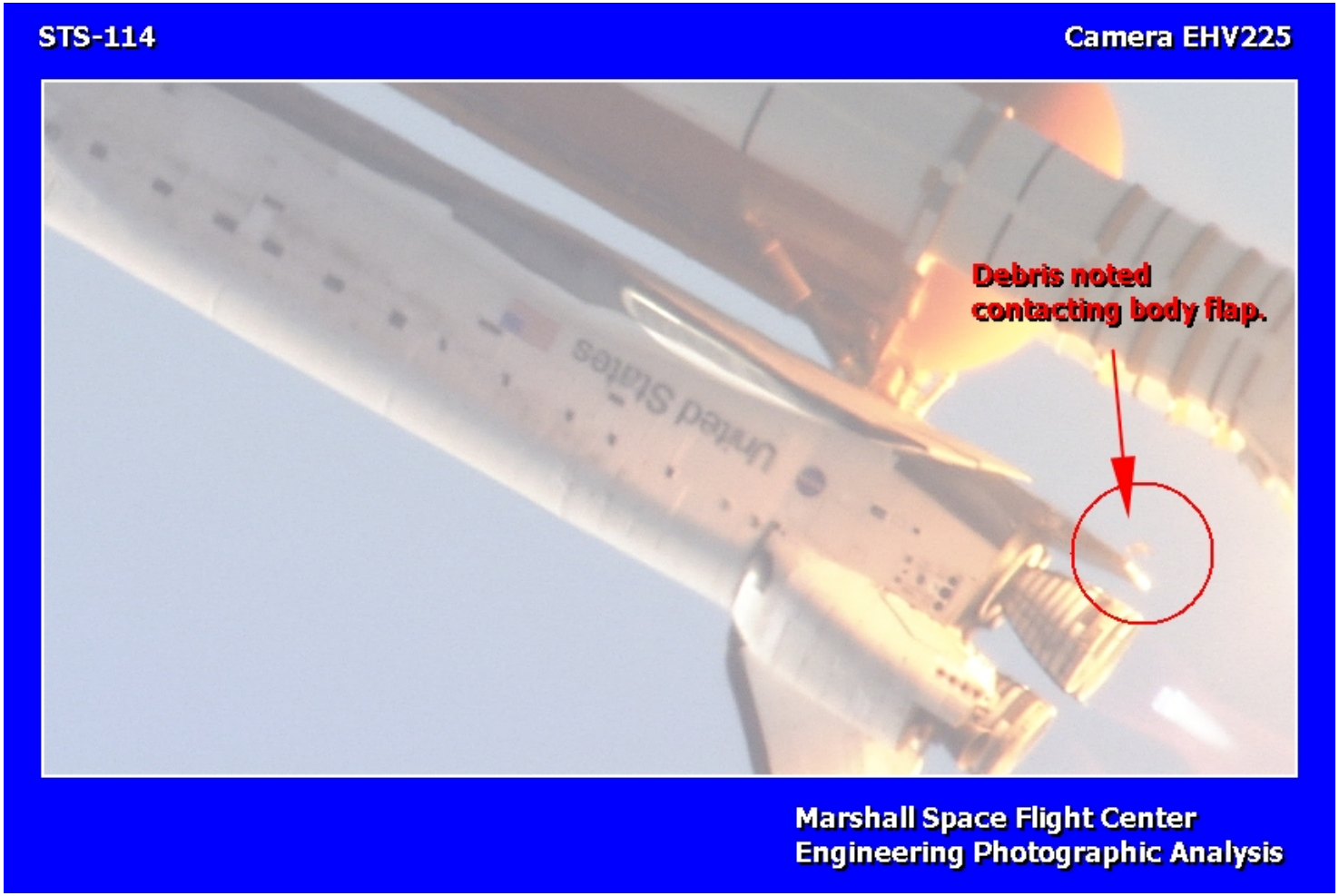


LH2 Tank Acreage



Body Flap Debris Event t+ 15 seconds

Very low KE expected



Debris at ET Sep + 18 minutes

S114E5166

Forward Work

- Continue ascent video/film screening
- LDRI screening continues
- RPM images are down and screening is in progress

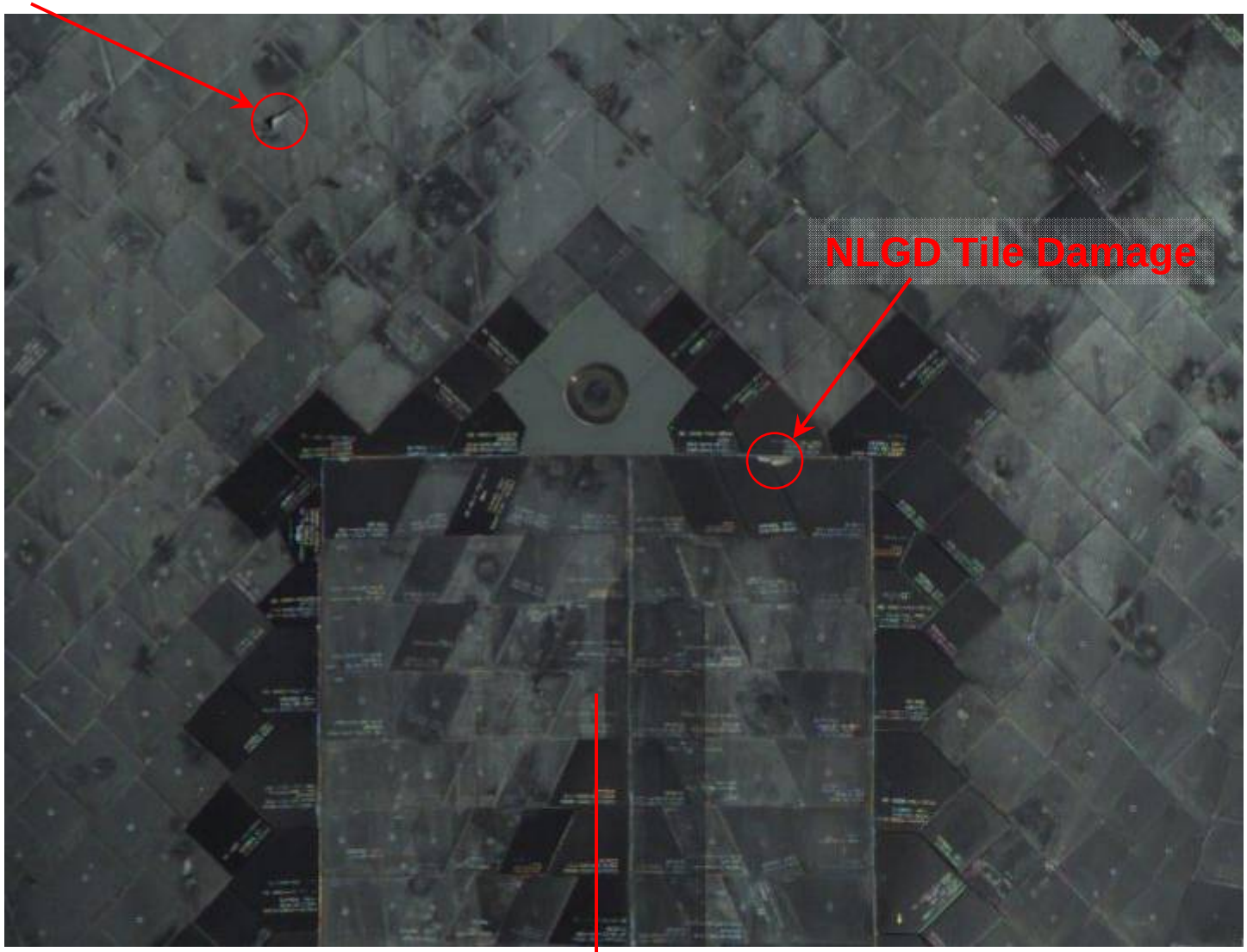
RPM Quick-Look

Dan Bell

TPS Damage Assessment Team

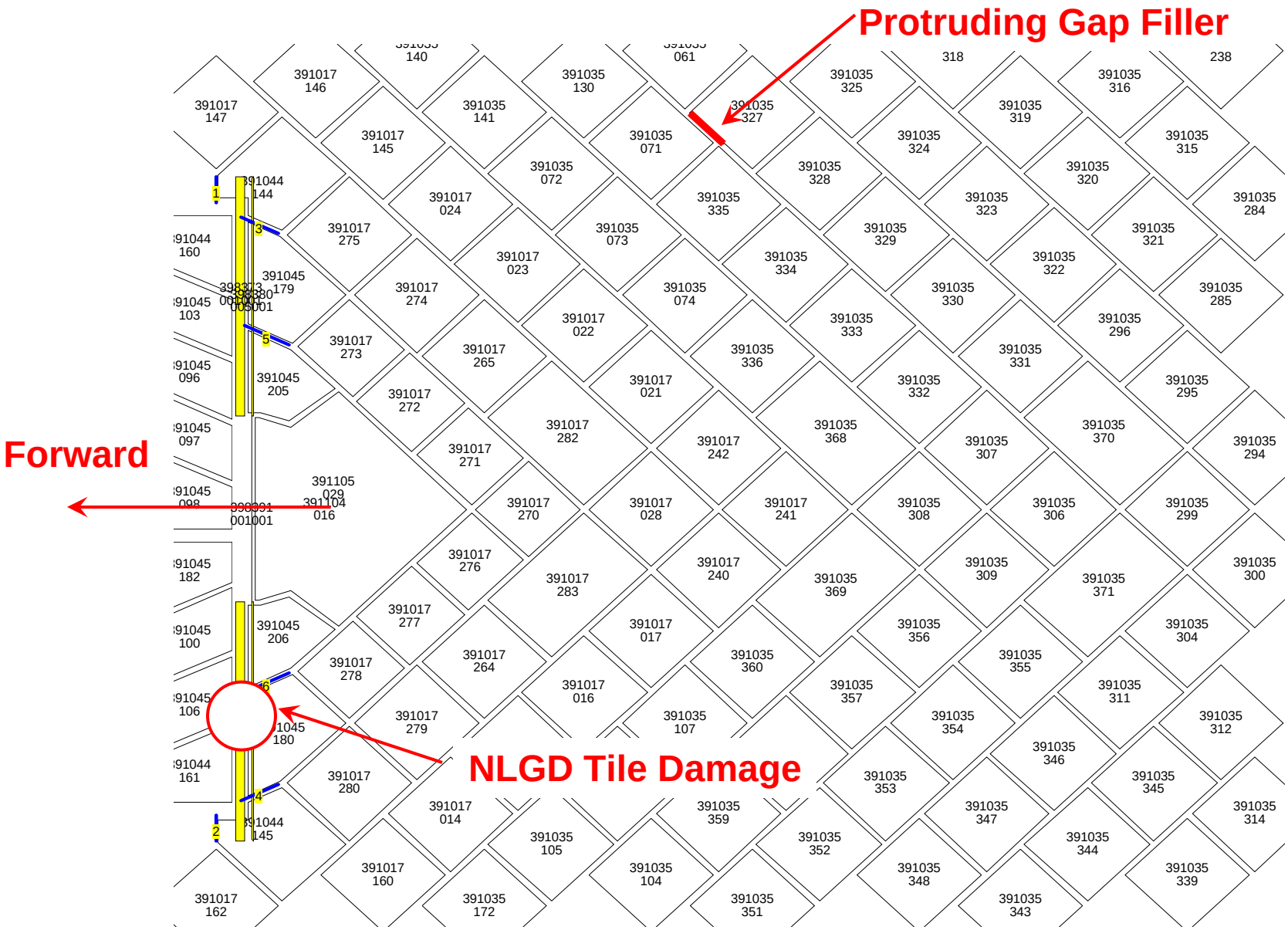
July 28, 2005

Protruding Gap Filler



Forward

Gap Filler
(est. protruding 1.2 ±0.5”)


Protruding Gap Filler
Forward
NLGD Tile Damage
391017 147
391017 146
391017 145
391017 024
391017 275
391017 274
391017 273
391017 265
391017 272
391017 271
391017 282
391017 242
391017 270
391017 028
391017 241
391017 276
391017 283
391017 240
391017 277
391017 017
391017 278
391017 264
391017 016
391017 279
391017 280
391017 014
391017 160
391017 162
391017 023
391017 022
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391017 279
391017 280
391017 014
391017 160
391017 162
391035 140
391035 141
391035 130
391035 061
391035 071
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391035 319
391035 324
318
238
391044 144
391044 160
391045 179
391045 103
391045 096
391045 205
391045 097
391105 029
391104 016
391045 182
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391045 106
391045 180
391044 161
391044 145
1
2
3
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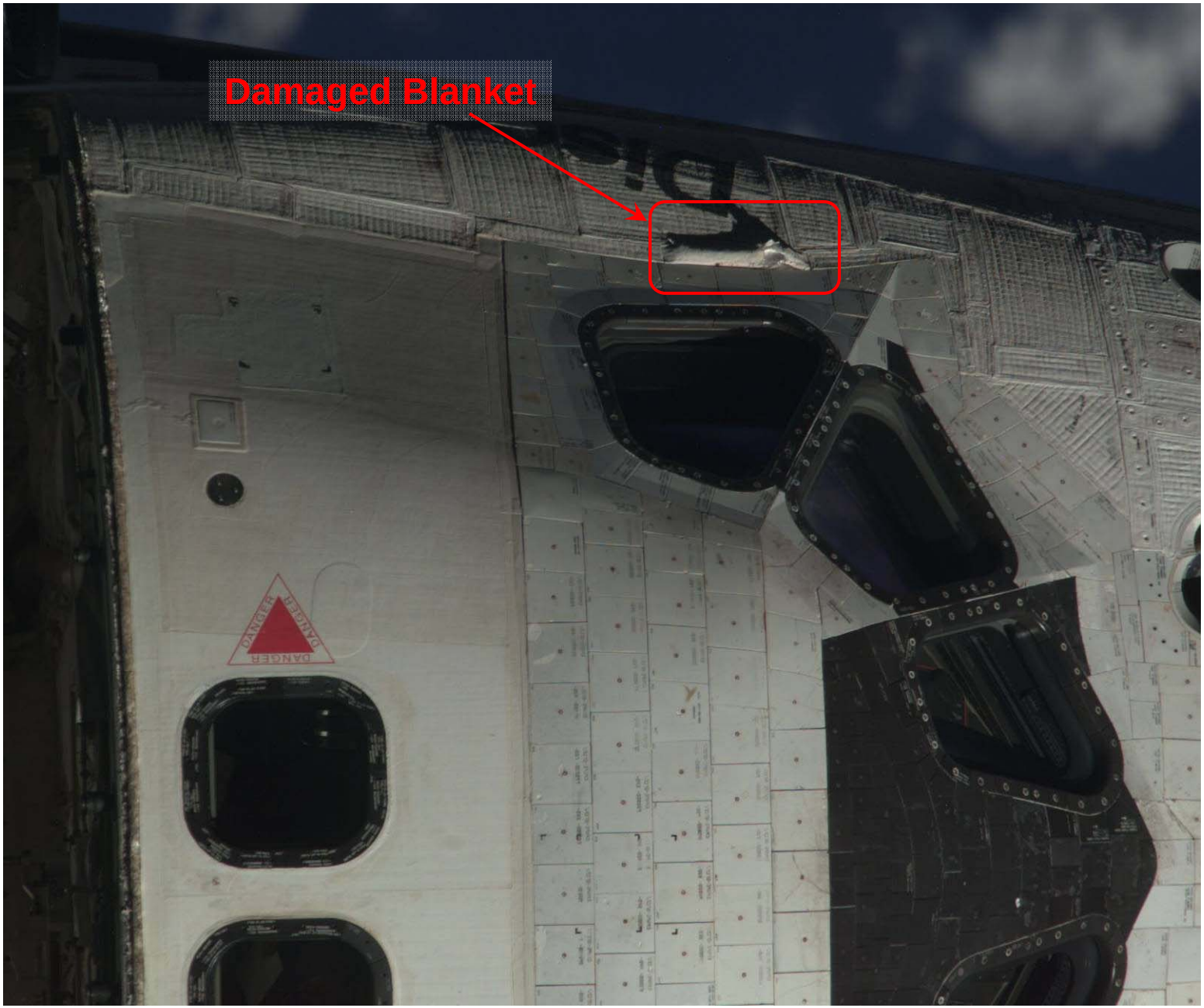
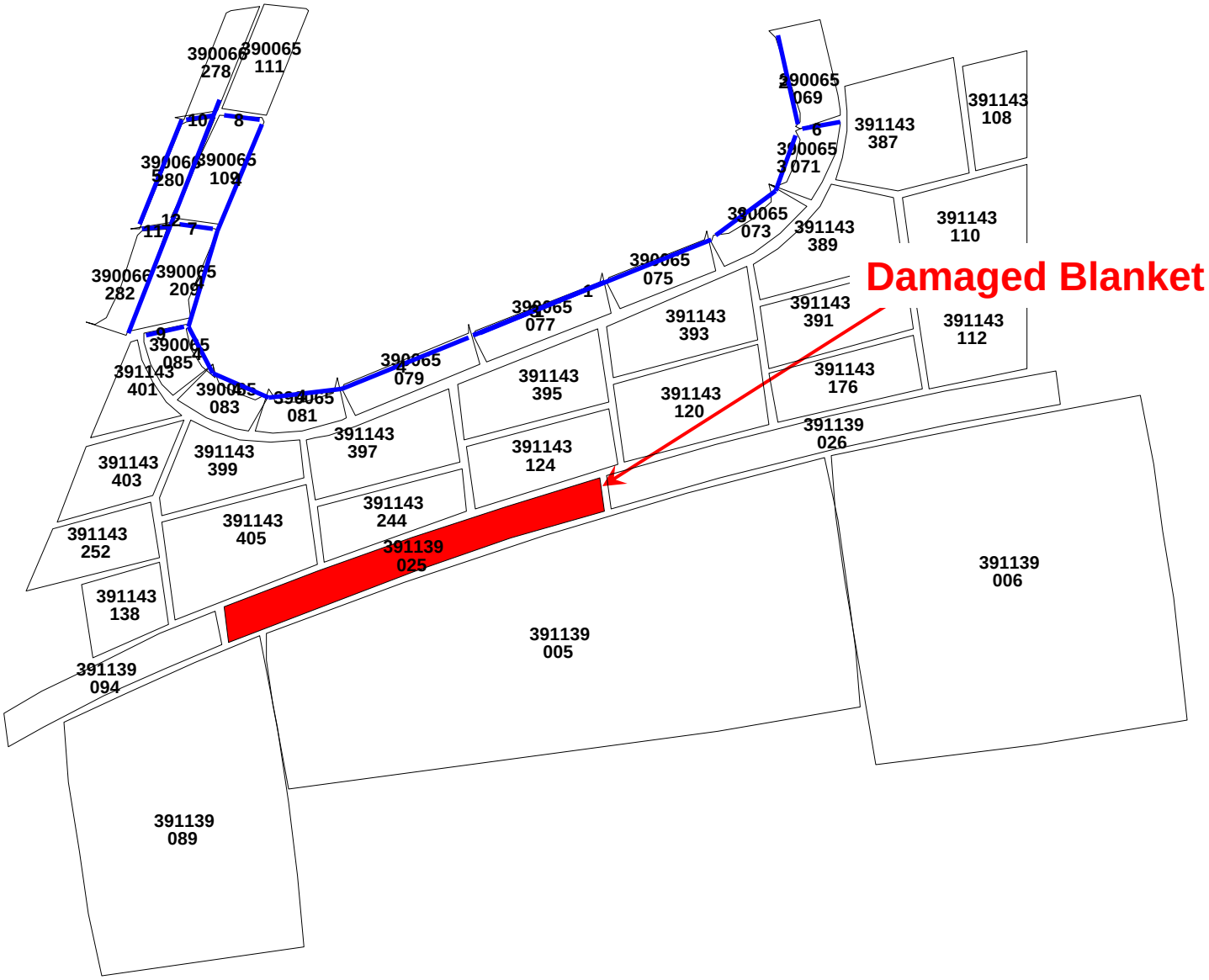
6


Damaged Blanket


Damaged Blanket
390065 278
390065 111
390065 280
390065 109
390066 282
390065 209
390065 085
390065 083
390065 081
390065 079
390065 077
390065 075
390065 073
390065 071
390065 069
391143 387
391143 108
391143 389
391143 110
391143 391
391143 112
391143 393
391143 176
391143 120
391143 395
391143 124
391143 397
391143 244
391143 399
391143 405
391143 401
391143 403
391143 252
391143 138
391139 025
391139 026
391139 006
391139 005
391139 094
391139 089

Since your present expected attitude for the DTO will result in RCC sample temps cycling from -15 to +135 deg F, and the ideal temperature for NOAX is +40 to 100 deg F, the DTO team has requested an attitude bias to achieve a better thermal environment. You can expect that maneuver to occur during EVA 1 setup and stay until the DTO box is closed at the end of the EVA. If you get out the door on time per the current timeline, you can expect a nominal DTO (EWA then NOAX), with a short wait for NOAX start until ~ MET 3/19:45. NOAX application is NO GO at 20 deg F and below.

The bingo time for starting DTO cleanup is PET 2:20 assuming we have 6:30 on EMU consumables.

Getting out the door early on EVA day will generally hurt the NOAX timeline. This will mean either we do EWA first and then have to wait longer for NOAX to be warm enough, or we try NOAX first but have less time available until we get too cold. In all cases, if we run out of time and it is too cold, we will look for a palette working life test since the palette is expected to be approximately 60 deg F.

If you are 30 min to 1 hr late out the door on EVA day, you can expect to perform the NOAX DTO before EWA. (Of course we may ask for a temperature reading first.) The following step order would then apply starting in TPS DTO (EVA, TIMELINES), pg FS 7-11:

EV1:

1. Starting on FS 7-11: Perform step 1, then pickup with step 26 and continue until NOAX DEMONSTRATION is complete (including getaheads on MCC call, pages FS 7-11 to FS 7-13).
2. FS 7-14, perform 41-43
3. FS 7-11, perform steps 2-25
4. FS 7-14, pickup at step 44 and continue nominally

EV2:

1. Starting on FS 7-11: Perform steps 1-4
2. Perform a temperature reading of the NOAX sample and its frame
3. Pickup with step 15 and continue until NOAX DEMONSTRATION is complete (including getaheads on MCC call, pages FS 7-11 to FS7-13).
4. FS 7-14, step 83
5. Since EV2 is not normally in the APFR during EWA, you may egress at this time and remove your waist tether if desired
6. FS 7-11, perform steps 5-14
7. Fs 7-14, pickup at step 85 and continue nominally

Good morning Wendy and Charlie,

Hopefully, you have recovered from the sea of paper we sent you yesterday! Good news is that we have no changes for you today to the Transfer List pages.

Transfer Items Needed on FD04
Item 13 – Radial Port Closeout – Needed for MPLM Ingress
Item 38 – MISSE Collar – Needed for MISSE Collar/Clamp installation

The following items are needed during the MPLM EVA Transfer:
111, 118, 125, 126, 129, 160.1, 169

Transfer Notes
Hold-off on transferring Item #482.3. Expect changes to this item tomorrow.

Can't wait to see inside the MPLM!
-The Transfer Team-

Big Picture

To help with General Luminaire Assembly (GLA) sparing for ISS, we have determined the maximum amount of ORUs that can be scavenged from the MPLM on LF1:

- Up to 2 Baseplate Ballast Assemblies (BBAs)
- Up to 8 (all) Lamp Housing Assemblies (LHAs)

Scheduling

- John (FE-1) is scheduled to remove 1 GLA from the MPLM (LHA + BBA) on FD8. This will be replaced with a failed BBA (pre-packed in the LAB1P4 ZSR) from ISS to protect for structural loads during re-entry, but no LHA will be installed for MPLM return.
- The remaining 1 BBA and 7 LHA scavenges will not be timelined, and can be completed at your convenience if time permits and reduced lighting is acceptable for scheduled MPLM activities.

Operational Notes to remember

Since the LHA removals will not be timelined, we wanted to give you the following reminders:

- Reference procedure IFM/1.2.402 LAMP HOUSING ASSEMBLY R&R for scavenging the LHAs.
    - Note: There is a new concern with the connectors on LHAs having the nickel plating flake off. To protect for potential FOD, please tape a Ziploc bag around the LHA connector prior to stowing. This will not be captured in the procedure.
- Reference procedure IFM/1.2.403 BASEPLATE BALLAST ASSEMBLY R&R for scavenging the 2nd BBA.
    - The 2nd BBA removal should be swapped with a failed BBA that is still installed on ISS. This should include installation of the BBA from MPLM into ISS and the failed unit installed in MPLM. We recommend the LAB1OS4 location, but the NOD1OP2-2 is another option. (Note: the NOD1OS4 location has a failed RPC, so it is not considered a candidate).
- Remember to tape the exposed J3 connector on all BBAs in the MPLM left without an LHA installed.
- We recommend stowing the new GLA ORUs in LAB1O4_A1, but if you have a better place in mind, let us know.
- Please report the S/N and location removed from MPLM for all scavenged LHAs and BBAs to **MCC-H** at your convenience.