STS-114/LF1

FD 05 Execute Package

MSG	Page(s)	Title
039D	1 - 16	FD05 Flight Plan Revision **(pdf)**
040	17 - 18	FD05 Mission Summary **(pdf)**
042	19	FD05 Transfer Message **(pdf)**
043	---	FD04 MMT Summary **(pdf - Electronic Only)**
044	20	FD05 Inspection Areas of Interest **(pdf)**

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

Last Updated: Jul 30 2005 3:18AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

MSG INDEX

MSG NO.	TITLE
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41	FD05 RCC Focus Inspection Procedures (To Be Uplinked Later In FD05)
42	FD05 Transfer Message (11-0667)
43	FD04 MMT Summary (11-0668) (Electronic Only)
44	FD05 Inspection Areas of Interest

1. Post Sleep Cryo Config:

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

   A15 CRYO TK5 HTR O2 B - OFF

2. For the H2O activities on CDR:

   There are three CWC fills scheduled for today. Perform the first CWC fill at 3/17:15 using the bag that was pregathered yesterday (S/N 1038). The procedure to use is CWC FILL in SHUTTLE/ISS H2O CONTAINER FILL (ORB OPS,ECLS), p. 5–26, and expect the fill to last about 56 minutes. The only additive is Silver biocide, and a sample is required. This sample should be stored in MF43E.

   After hatches to ISS are reopened, retrieve two CWCs from among those with the following S/Ns: 1007, 1012, 1017, 1040, 1046, 1047. They are located at ISS NOD1P2 (in the M-02 bag). Again use CWC FILL in SHUTTLE/ISS H2O CONTAINER FILL (ORB OPS,ECLS), p. 5–26. Silver biocide will be the only additive for these two fills, and neither fill requires a sample. The first of the two CWC fills is scheduled for MET 3/20:40, and the second fill may be initiated when the first is complete; it is scheduled to start at MET 3/22:10. Fill duration for these CWCs is also expected to be 56 minutes. Following both fills, all three CWCs filled today should be transferred to ISS. Report stowage location of each CWC to MCC.

   After each fill, squeeze the CWC and inspect the outer canvas cover and all fittings for cracks and leaks; report the bag's condition to MCC along with its S/N and Barcode.

3. To operate the DSR20 VTR with the camcorder remote control, both units need to be set to the "VTR4" ID setting.

   The remote control is set with a switch on the top part of the remote face.

   For the VTR, it is set via a menu selection. This menu is only visible on video from the VTR MONITOR connector on the panel between the VIP and the DSR20. The DTV V10 video was recently moved to the VTR OUT connector so that will need to be moved back to the VTR MONITOR for this operation. Once configured, the setting is configured/confirmed via pressing the MENU pb behind the DSR20 front cover. From there, select the REMOTE CONTROL option and then select the VTR4 option in that menu. Pressing MENU will clear the menu.

   Return the DTV V10 video source to the VTR OUT when complete.

4. To improve WLES data accuracy for on-orbit environment characterization data takes,a new config file was uplinked to the WLES laptop. To reconfigure the WLES software to recognize the new config file, an activity has been added to MS5 at MET 3/18:25 to perform the following steps on the WLES 8 A31p:

   1) On MCC GO: Exit ' Enhanced Wideband MicroTAU - WLE 1.2' software by clicking 'EXIT'

   At prompt 'Are you sure you want to exit?' click 'Yes"

   2) Copy file 'WLEConfig.xml' from C:/Program Files/Invocon/EWBMTAU-WLE/Utility to

   C:/Program Files/Invocon/EWBMTAU-WLE, overwriting the old one.

   3) Double click "Shuttle Apps' >'EWBTAU-WLE'

   Verify 'Mode: Processing Remote Commands' (shows locked icon at top of display)

   4) Report completion to MCC

5. PGSC Notes:

   The flash card in the EVA camera is only certified to be inserted into an A31P laptop (not a 760). A folder has been created on the DOUG laptop (c:\oca-down\DCS\EVA) for any EVA pictures you take.

   If you would like to download DCS images to a laptop hard drive, please download them to the DOUG PGSC at your leisure (there is more available disk space than on the Proshare laptop). Please create a new folder for each PCMIA card you download in the "C:\oca-down\DCS" folder. You may still insert the PCMCIA cards into the Proshare laptop for downlink directly off the card, if you desire.

   Just a reminder to please move any e-mail messages that you want to keep to your personal folders. This helps us get your mail uplinks back to you more quickly.

6. Current Cryo margin is steadily increasing. Amazing job conserving cryo! We all really appreciate your conscientious efforts to work towards an extra day on orbit. Keep up the great work!

7. There are no exercise constraints for FD05.

8. REPLACE PAGES 2-10A THROUGH 2-11B AND 3-44 THROUGH 3-53.

07/29/05 22:10:58 **REPLANNED**

GMT 07/30/05 (211) 12 13 14 15 16 17 18 19 20 21 22 23 004/00

MET Day 003 03 04 05 06 07 08 09 10 11 12 13 14

FD05

EVA 1 (06:30)

STS-114	CDR COLLINS	SLEEP; POST SLEEP; PMC A/G; POST SLEEP; I-CNCT; ATTHO*; 10.2*; POST SLEEP; OU; EXERCISE; EVA1 INHBT; CWC CINIT 5; DAP13; 14.7 REPR; CWC TERM; DAP12 MNVR; NOAX; FILTER CLEAN INSPECT; CWC CINIT 6; MEAL; CWC TERM; CWC CINIT 7; CWC TERM; DAP13; ISS EGRS
STS-114	PLT KELLY	SLEEP; SALIVA; POST SLEEP; FCMS C/O; EXERCISE; ISS INGRS; RWS; SSRMS ESPAD INSTALL; OBSS RCC SURVEY
STS-114	MS1 NOGUCHI	SLEEP; POST SLEEP - GIRA; EVA PREP; EMU PURGE P/B; DEPRS; EGRS/ SETUP; TPS DTO; PRIMARY CABLE ROUTNG; ESPAD INSTL; GPS ANT R&R; SEC CBL ROUT; CLNUP /INGR
STS-114	MS2 ROBINSON	SLEEP; POST SLEEP; NOAX SU; EVA PREP; EMU PURGE P/B; DEPRS; EGRS/ SETUP; TPS DTO; ESPAD REMOVAL; ESPAD INSTALL; CMG GETAHEADS; SECONDARY CABLE ROUT; ♣
STS-114	MS3 THOMAS	SLEEP; POST SLEEP; NOAX SU; EVA PREP; EMU PURGE P/B; DEPRS; IVA SUPPORT
STS-114	MS4 LAWRENCE	SLEEP; SALIVA; LOG; POST SLEEP; EVA PREP; XFER REVIEW; P/TV07 EVA S/U; EXERCISE; ISS INGRS; LIOH XCHG; TRANSFER; RWS; SSRMS ESPAD INSTALL; TRANSFER; ISS EGRS
STS-114	MS5 CAMARDA	SLEEP; SALIVA; LOG; POST SLEEP; 10.2*; POST SLEEP; PGSC FD5 S/U; XFER REVIEW; EXERCISE; RMS HTR; 14.7 REPR; WLES; MPLM CLOTHES XFER; MEAL; TRANSFER; OBSS RCC SURVEY
ISS	ISS CDR KRIKALEV	SLEEP; POST SLEEP; DPC; LAB GRAPPLE; MBS UNGRPL; ESPAD EVA S/U; ESPAD EVA S/U; TVIS; MIDDAY-MEAL; COX; TRANSFER
ISS	FE-1 PHILLIPS	SLEEP; POST SLEEP; DPC; ⊕♦; LAB GRAPPLE; MBS UNGRPL; ESPAD EVA S/U; ®; EMU EVA; ESPAD S/U; EXERCISE RED; MIDDAY-MEAL; ♥; TRANSFER

DAY/NIGHT

ORBIT 56 57 58 59 60 61 62 63 64

TDRS E -46.0 W -171.0 Z -275.0

ORB ATT BIAS -XLV -ZVV NOAX -XLV -ZVV

NOTES
⊕EVA-EQUIP-LOCK-CNFG
♦C&T-CMM-JAL-EVA-CNFG
*10.2 MAINT
*CMG TO STS
®A/L-CRWLCK-LKCK-P1
♥A/L-CRWLCK-LKCK-P2
♣CLNUP /IN
FLT PLN/114/FLIGHT

ISS-11 SHORT TERM PLAN PAYLOAD PAGE

CT 07/29/05 (210) 22 23 07/30 01 02 03 04 05 06 07 08 09

GMT 07/30/05 (211) 03 04 05 06 07 08 09 10 11 12 13 14

ISS

DAY/NIGHT								
ORBIT	2243	2244	2245	2246	2247	2248	2249	2250	2251
DAILY ORBIT	14	15	16	1	2	3	4	5	6
TDRS AVAIL									
VHF	ALL VHF	ALL VHF	ALL VHF	ALL VHF	ALL VHF	ALL VHF	ALL VHF	ALL VHF	

KUS

- LOCK-OPS-RECORDER: LOCK-OPS-RECORDER
- OCA-MAIL-SYNC: OCA-MAIL-SYNC
- IMS-AUTO-IMPRT/EXPRT: IMS-AUTO-IMPRT/EXPRT

SYS

SBD

- RS-CONTG-TLM: RS-CONTG-TLM
- MSS-POWERUP: MSS-POWERUP
- UHF-1-ACT: UHF-1-ACT
- AUDIO-UHF OPS-CNFG: AUDIO-UHF OPS-CNFG
- ACS-INH-AUTO-H/O-RS: ACS-INH-AUTO-H/O-RS
- C&T-VIDEO CNFG: C&T-VIDEO CNFG
- ACS-CMG-DATA-DUMP: ACS-CMG-DATA-DUMP; ACS-CMG-D
- ACS-CMG/STS ATT-H/O: ACS-CMG/STS ATT-H/O
- LOCK-OPS-RECORDER: LOCK-OPS-RECORDER
- DPC: DPC
- C&T-CMM-JAL-EVA-CNFG: C&T-CMM-JAL-EVA-CNFG
- SSRMS-OCAS-DUMP: SSRMS-OCAS-DUMP; SSRMS-OCAS-DUMP
- EVA1 INHIBIT PAD: EVA1 INHIBIT PAD
- ISS-CL-VENT: ISS-CL-VENT
- O2-HP-VLV-OPEN: O2-HP-VLV-OPEN
- ISS-RAP DPRS-INH: ISS-RAP DPRS-INH
- ISS-RAP DPRS-ENA: ISS-RAP DPRS-ENA
- FMS-CALIBRATION: FMS-CALIBRATION
- C&T-KU-LCS-MASK-ENA: C&T-KU-LCS-MASK-ENA
- ACS-GPS-AA-CHECKOUT: ACS-GPS-AA-CHECKOUT
- ACS-CMG2-STARTUP: ACS-CMG2-

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

RS

MCC

- MCC-H FCT H/O (3/1): MCC-H FCT H/O (3/1)
- RS-CONTG-TLM: RS-CONTG-TLM
- ACS-CMG/STS ATT-H/O: ACS-CMG/STS ATT-H/O
- EVA1 INHIBIT PAD: EVA1 INHIBIT PAD
- MCC-M EVA1 INH COMPL: MCC-M EVA1 INH COMPL
- MCC-H FCT H/O (1/2): MCC-H FCT H/O (1/2)

ISS ATTITUDE

-XVV +ZLV TEA — -XVV +ZLV BIAS NOAX

*CMG TO STS

*CMG TO STS

NOTES:

07/29/05 22:10:58 **REPLANNED**

GMT 07/30/05 (211) FD5 004/00 — 15 16 17 18 19 20 21 22 23 07/31 01 02
MET Day 004 — 01 02 03 04 05 06 07 08 09 10 11 12

STS-114	CDR COLLINS	WVSPD; MNVR-XLV; DAP12; INGRS POST; XFER 3 CWC; OIU*; PRE SLEEP; PMC A/G; PRE SLEEP; SLEEP
STS-114	PLT KELLY	OBSS RCC SURVEY; SSRMS CMG EVA S/U; PRE SLEEP; SLEEP
STS-114	MS1 NOGUCHI	CLNUP /INGR; RPRS; POST EVA W/H2O; PRE SLEEP - GIRA; SLEEP
STS-114	MS2 ROBINSON	CLNUP /INGR; RPRS; POST EVA W/H2O; TETHER REBA-I; PRE SLEEP; SLEEP
STS-114	MS3 THOMAS	IVA SUPPORT; RPRS; POST EVA W/H2O; TETHER REBA-I; PRE SLEEP; SLEEP
STS-114	MS4 LAWRENCE	INGRS POST; SSRMS CMG EVA S/U; PRE SLEEP; XFER TAGUP; PRE SLEEP; SLEEP
STS-114	MS5 CAMARDA	OBSS RCC SURVEY; DCS DIS ASSY; N2XFER; TRANSFER; PRE SLEEP; XFER TAGUP; XFER CALL; PRE SLEEP; SLEEP
ISS	ISS CDR KRIKALEV	TRANSFER; VELO + HC; DAILY PLN RVW; PRE SLEEP; DPC; XFER TAGUP; PRE SLEEP; SLEEP
ISS	FE-1 PHILLIPS	TVIS; ♣⊕♦; DAILY PLN RVW; JRNL; DPC; PRE SLEEP; SLEEP

DAY/NIGHT

ORBIT: 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72

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

ORB ATT: BIAS -XLV -ZVV

NOTES:
♣CMS-EXER FILE-DWNLD1
⊕EVA-EQUIP-LOCK-DCNFG
♦C&T-DOCKED-COMM-CMEQ
*DEACT

FLT PLN/114/FLIGHT

07/29/05 22:10:58

ISS-11 SHORT TERM PLAN PAYLOAD PAGE

CT 07/30/05 (211) 10 11 12 13 14 15 16 17 18 19 20 21

GMT 07/30/05 (211) 15 16 17 18 19 20 21 22 23 07/31 01 02

ISS

DAY/NIGHT									
ORBIT	2251	2252	2253	2254	2255	2256	2257	2258	2259
DAILY ORBIT	6	7	8	9	10	11	12	13	14
TDRS AVAIL									
VHF						ALL VHF	ALL VHF	ALL VHF	ALL VHF

KUS

OCA-MAIL-SYNC
IMS-AUTO-IM/EX W/PIP
CHECS-KU-D/L

SYS

ACS-GPS-ATT-SEL-AUTO

SBRD

ACS-CMG-DATA-DUMP
ACS-CMG2-STARTUP
ISS-RAP DPRS-INH
C&T-KU-LCS-MASK-INH
SSRMS-OCAS-DUMP
RS-CONTG-TLM
IMV-DPRS-ENA
CMG-SAT-THRSHOLD
O2-HP-VLV-CLOSE
CPO-MAMS DATA-D/L
UHF-1-DEACT
AUDIO-UHF OPS-DCNFG
C&T-DOCKED-COMM-CNFG
C&T-VIDEO-DECONFG
DPC
MSS-POWERDOWN
CHECS-COMMANDING

C&C-PPL-LST-LOAD
ACS-CMG-SPINUP
SBD-KEY-CHG
ACS-CMG3-RMV-SL

UNTPL

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

RS

MCC

RS-CONTG-TLM
MCC-H FCT H/O (2/3)
CHECS-COMMANDING

CHECS-KU-D/L
MCC-H FCT H/O (3/1)

ISS ATTITUDE -XVV +ZLV TEA

NOTES:

STS-114 LF1 (FD 05)

REPLANNED

GMT Date 07/30 (211) | TDRS E W Z | ORB 56 57 58 59 | MET Day 003 | STS ATI

FD05

MET	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC
12:00	SLEEP	SLEEP	SLEEP	SLEEP	
13:00	SALIVA COLLECT (ORB OPS, DSO)				
	FD05 EZ ACTIVITIES HARD REBOOT PGSCs (not WLES) OCAC FILTER INSPECT TEPC (STATUS CK) (ORB OPS, CREW SYS) L17 Check MCIU Filter Screen				
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
			POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
14:00	P6 UHF MODE - OFF A/G PRIVATE MEDICAL CONFERENCE		GALLEY MORNING CONFIG (ORB OPS, ECLS)		
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
	I'CNCT:LOMS TO RCS (OPCL, RCS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
	3.110 H/O ATT CONTROL CMG TO ORB (JOINT OPS, MATED OPS)				UPLINK β 21° +C1,C2,C3+W2 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 W2 -129<AZ<-10 -60<EL<43
	10.2 PSI MAINTENANCE (EVA, 10.2 PSI CABIN)			NOAX GUN NOZZLE INSTALL (DAY OF EVA) (EVA, TOOLS AND STOWAGE)	
15:00			EVA PREP (EVA, EVA PREP) REF. MSG 021 ITEM 11	EVA PREP (EVA, EVA PREP) REF. MSG 021 ITEM 11	
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
16:00	OIU ACTIVATION (ORB OPS, OIU) OIU-1 Step 3 ONLY				

BIAS-XLV-ZVV

STS-114 LF1 (FD 05)

REPLANNED

GMT Date 07/30 (211) | TDRS E W Z | ORB 56 57 58 59 | MET Day 003 | STS ATI

FD05

MS3 THOMAS | MS4 LAWRENCE | MS5 CAMARDA | MCC

12:00 — 13:00 — 14:00 — 15:00 — 16:00

03:00 — 04:00 — 05:00 — 06:00

SLEEP (MS3, MS4, MS5)

SALIVA COLLECT (ORB OPS, DSO) — MS4
FLIGHT SLEEP LOG (ORB OPS, DSO) — MS4

SALIVA COLLECT (ORB OPS, DSO) — MS5
FLIGHT SLEEP LOG (ORB OPS, DSO) — MS5

BIAS-XLV-ZVV

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) — MS3

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) — MS4

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) — MS5

NOAX GUN NOZZLE INSTALL (DAY OF EVA) (EVA, TOOLS AND STOWAGE) — MS3

10.2 PSI MAINTENANCE (EVA, 10.2 PSI CABIN) — MS5

EVA PREP (EVA, EVA PREP) REF. MSG 021 ITEM 11 — MS3

EVA PREP (EVA, EVA PREP) REF. MSG 021 ITEM 11 — MS4

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) — MS5

STS-114 LF1 (FD 05)

REPLANNED

GMT Date 07/30 (211) | TDRS E W Z | ORB 59 60 61 | MET Day 003 | STS ATI BIAS-XLV-ZVV

CDR COLLINS

16:00 — EXERCISE

17:00 — EVA 1 INHIBIT PAD
(EVA, EVA 1)

SHUTTLE/ISS H2O CONT FILL
(ORB OPS, ECLS) INIT #5
REF. MSG 039 ITEM 2

DAP:FREE
Config DAP A,B to A13,B13 [A]

18:00 — CABIN REPRESS TO 14.7 PSI
(EVA, 10.2 PSI CABIN)
Steps 1-4 ONLY
MCC will TMBU S/W limits

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

ON MCC GO: DAP:FREE
Config DAP A,B to A12,B12 [A]

19:00 — ON MCC GO:
MNVR (TRK) NOAX ATTITUDE
TG=2 BV=5 P=154 Y=346 OM=198
A12/AUTO/VERN Init TRK

FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)
Inspect filters and clean
as necessary

20:00

PLT KELLY

FC MONITORING SYS (FCMS) OPS
(ORB OPS, EPS)

EXERCISE

EXERCISE

[A]
WAIT 30 secs after new DAP
loads configured, THEN:
DAP:AUTO

ISS INGRESS-POST A/L DEPRESS
(EVA, DEPRESS/REPRESS)
Steps 1-19

MS1 NOGUCHI

EVA PREP
(EVA, EVA PREP)
REF. MSG 021 ITEM 11

EMU PURGE/PREBREATHE
(EVA, EVA PREP)
REF. MSG 021 ITEM 12

AIRLOCK DEPRESS
(CUE CARD, DEPRESS/REPRESS)

EVA 1 EGRESS/SETUP
(EVA, EVA 1)

TPS DTO
(EVA, EVA 1)

MS2 ROBINSON

EVA PREP
(EVA, EVA PREP)
REF. MSG 021 ITEM 11

EMU PURGE/PREBREATHE
(EVA, EVA PREP)
REF. MSG 021 ITEM 12

AIRLOCK DEPRESS
(CUE CARD, DEPRESS/REPRESS)

EVA 1 EGRESS/SETUP
(EVA, EVA 1)

TPS DTO
(EVA, EVA 1)

MCC

UPLINK
β0° + C1,C2,C3+E1
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 E1
-50<AZ<0
-67<EL<0

STS-114 LF1 (FD 05)

REPLANNED

GMT Date 07/30 (211) | TDRS E W Z | ORB 59 60 61 | MET Day 003 | STS ATI BIAS-XLV-ZVV

MS3 THOMAS

EVA PREP
(EVA, EVA PREP)
REF. MSG 021 ITEM 11

EMU PURGE/PREBREATHE
(EVA, EVA PREP)
REF. MSG 021 ITEM 12

AIRLOCK DEPRESS
(CUE CARD, DEPRESS/REPRESS)

IVA SUPPORT FOR EVA

MS4 LAWRENCE

EVA PREP
(EVA, EVA PREP)
REF. MSG 021 ITEM 11

TRANSFER REVIEW
Update Transfer List
per MSG 042

P/TV07 EVA (SETUP)
(PHOTO/TV, SCENES)
CONFIG DTV FOR DNLK
L10(MUX) √MUX BYPASS - ACT
MUX/VTR/CC PWR - ON

EXERCISE

ISS INGRESS-POST A/L DEPRESS
(EVA, DEPRESS/REPRESS)
Steps 1-19

PERFORM LiOH EXCHANGE PART B
(CUE CARD)

TRANSFER
Ref. MPLM TRANSFER LIST

MS5 CAMARDA

PGSC FD5 SETUP
Ref. EVA Day diagram

TRANSFER REVIEW
Update Transfer List
per MSG 042

EXERCISE

A8L √PORT RMS HTR (two) - AUTO
CABIN REPRESS TO 14.7 PSI
(EVA, 10.2 PSI CABIN)
Steps 1-4 ONLY
MCC will TMBU S/W limits

WLES CONFIG
REF. MSG 039 ITEM 4

MPLM CLOTHES TRANSFER

MCC

EVA 1 INHIBIT PAD
(EVA, EVA 1)

STS-114 LF1 (FD 05)

REPLANNED

GMT Date 07/30 (211) | TDRS E W Z | ORB 61 62 63 64 | MET Day 003 | STS ATI NOAX-XLV-ZVV

CDR COLLINS

- SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #6 REF. MSG 039 ITEM 2
- MEAL
- SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Report Barcode & S/N to MCC
- SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #7 REF. MSG 039 ITEM 2
- A WAIT 30 secs after new DAP loads configured, THEN: DAP:AUTO
- SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Report Barcode & S/N to MCC DAP:FREE Config DAP A,B to A13,B13 A
- ISS EGRESS FOR SHUTTLE EVA (EVA, DEPRESS/REPRESS) Do not perform steps 10-12

PLT KELLY

- RWS CONFIG
- 1.711 EVA - ESPAD INSTALL (ROBOTICS, EVA - ESPAD INSTALL)
- OBSS RCC SURVEY Ref. MSG 041 and MSG 044

MS1 NOGUCHI

- TPS DTO (EVA, EVA 1)
- ESP2 PRIMARY CABLE ROUTING (EVA, EVA 1)
- ESPAD INSTALL (EVA, EVA 1)
- GPS ANTENNA R&R (EVA, EVA 1) REF. MSG 021 ITEM 5
- ESP2 SECONDARY CABLE ROUTING (EVA, EVA 1)
- CLEANUP/INGRESS (EVA, EVA 1)

MS2 ROBINSON

- TPS DTO (EVA, EVA 1)
- ESPAD REMOVAL (EVA, EVA 1)
- ESPAD INSTALL (EVA, EVA 1)
- CMG GETAHEADS (EVA, EVA 1)
- ESP2 SECONDARY CABLE ROUTING (EVA, EVA 1)
- CLEANUP/INGRESS (EVA, EVA 1)

MCC

STS-114 LF1 (FD 05)

REPLANNED

GMT Date 07/30 (211) | TDRS E W Z | ORB | MET Day 003 | STS ATI

MS3 THOMAS | MS4 LAWRENCE | MS5 CAMARDA | MCC

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

ORB: 61 62 63 64

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

STS ATI: NOAX-XLV-ZVV

MS3 THOMAS

IVA SUPPORT FOR EVA

MS4 LAWRENCE

TRANSFER
Ref. MPLM TRANSFER LIST

RWS CONFIG

1.711 EVA - ESPAD INSTALL
(ROBOTICS, EVA - ESPAD INSTALL)

TRANSFER
Ref. MPLM TRANSFER LIST

ISS EGRESS FOR SHUTTLE EVA
(EVA, DEPRESS/REPRESS)
Do not perform steps 10-12

MS5 CAMARDA

MPLM CLOTHES TRANSFER

MEAL

TRANSFER
Ref. MPLM TRANSFER LIST

OBSS RCC SURVEY
Ref. MSG 041 and MSG 044

STS-114 LF1 (FD 05)

REPLANNED

GMT Date 07/30 (211) | TDRS E W Z | ORB | MET Day 004 | STS ATI

15:00 — 16:00 — 17:00 — 18:00

ORB: 64, 65, 66, 67

00:00 — 01:00 — 02:00 — 03:00 — 04:00

STS ATI: BIAS -XLV -ZVV

CDR COLLINS

WVS PWRDN
(PHOTO/TV, CUE CARD)

~~ON MCC GO:~~
MNVR (TRK) BIAS -XLV -ZVV
TG=2 BV=5 P=155 Y=0 OM=178
A13/AUTO/VERN Init TRK (00:20)

ON MCC GO:DAP:FREE
Config DAP A,B to A12,B12 [A]
ISS INGRESS-POST EVA
(EVA, DEPRESS/REPRESS)
Do not perform steps 4,6, &14

CWC TRANSFER
Xfer 3 CWC bags to ISS

OIU DEACTIVATION (ORB OPS, OIU) [B]

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

06 √UHF MODE - OFF
A/G PRIVATE MEDICAL CONFERENCE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PLT KELLY

OBSS RCC SURVEY
Ref. MSG 041 and MSG 044

[A]
WAIT 30 secs after new DAP
loads configured, THEN:
DAP:AUTO

1.511 CMG R&R EVA SETUP
(ROBOTICS, CMG R&R EVA SPT)

[B]
Expect S62 BCE BYP PSP 1 MSG to follow

LDRI STATUS CHECK:
R12(VPU) Green Jumper - LDRI/ITVC
R12(OBSS) ITVC ENA - ON

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CONFIG ODS DRAG
THROUGHS FOR SLEEP

MS1 NOGUCHI

CLEANUP/INGRESS
(EVA, EVA 1)

AIRLOCK REPRESS
(CUE CARD, DEPRESS/REPRESS)

POST EVA
(EVA, POST EVA)
PERFORM:
EMU WATER RECHARGE/FILL VERIF

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

GALLEY OVERNIGHT CONFIG
(ORB OPS, ECLS)

MS2 ROBINSON

CLEANUP/INGRESS
(EVA, EVA 1)

AIRLOCK REPRESS
(CUE CARD, DEPRESS/REPRESS)

POST EVA
(EVA, POST EVA)
PERFORM:
EMU WATER RECHARGE/FILL VERIF

STOW EXPIRED SAFETY TETHERS
IN CTB

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MCC

UPLINK
β21°+C1,C2,C3+E1
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 E1
-50<AZ<0
-67<EL<0

UPLINK
β21°+C1,C2,C3
BOX C1
-19<AZ<52
-67<EL<75
BOX C2
-41<AZ<-10
-25<EL<39
BOX C3
-72<AZ<-36
-4<EL<33

STS-114 LF1 (FD 05)

REPLANNED

GMT Date 07/30 (211) | TDRS E W Z | ORB 64 65 66 67 | MET Day 004 | STS ATI BIAS-XLV-ZVV

MET	MS3 THOMAS	MS4 LAWRENCE	MS5 CAMARDA	MCC
00:00			OBSS RCC SURVEY Ref. MSG 041 and MSG 044	
15:00	IVA SUPPORT FOR EVA			
	AIRLOCK REPRESS (CUE CARD, DEPRESS/REPRESS)			
	POST EVA (EVA, POST EVA) PERFORM: EMU WATER RECHARGE/FILL VERIF	ISS INGRESS-POST EVA (EVA, DEPRESS/REPRESS) Do not perform steps 4,6, &14	SETUP: 760 EVA-CAMR W/FLASH DISASSEMBLY (BETWEEN EVAs) (PHOTO/TV, DCS 760 EVA)	
01:00		1.511 CMG R&R EVA SETUP (ROBOTICS, CMG R&R EVA SPT)		
			3.102 NITROGEN TRANSFER INIT (JOINT OPS, MATED OPS) Steps 4.2-4.3	
16:00				
			TRANSFER Ref. MPLM TRANSFER LIST	
02:00	REBA BATTERY RECHARGE (INIT-In suit) (EVA, EMU MAINT/RECHARGE)			
17:00		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
			PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
03:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	DAILY STS/ISS CREW TRANSFER TAGUP	DAILY STS/ISS CREW TRANSFER TAGUP	
18:00			DAILY TRANSFER BRIEFING	
		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
			PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
04:00				

STS-114 LF1 (FD 05)

REPLANNED

GMT Date 07/30 (211) | TDRS E W Z | ORB | MET Day 004 | STS ATI

CDR COLLINS | PLT KELLY | MS1 NOGUCHI | MS2 ROBINSON | MCC

04:00

19:00

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

CONFIG ODS DRAG THROUGHS FOR SLEEP

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

67

CREW WAKEUP MET 4/13:00

05:00

20:00

BIAS-XLV-ZVV

68

21:00

SLEEP | SLEEP | SLEEP | SLEEP

07:00

22:00

69

08:00

STS-114 LF1 (FD 05)

REPLANNED

GMT Date 07/30 (211) | TDRS E W Z | ORB | MET Day 004 | STS ATI

MS3 THOMAS | MS4 LAWRENCE | MS5 CAMARDA | MCC

19:00 — 20:00 — 21:00 — 22:00

04:00 — 05:00 — 06:00 — 07:00 — 08:00

ORB: 67, 68, 69

BIAS-XLV-ZVV

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

CREW WAKEUP MET 4/13:00

SLEEP

Good Morning Discovery!

Congratulations on another stellar space day.

Thanks for your great arm work.

When you look at the flight plan for today, you will notice that the Tile Board Survey has been deleted and the RCC Focused Inspection has been added.

You are doing a great job conserving cryo. Keep up the good work.

Today Steve and Soichi will be trading out headgear. We are looking forward to watching them switch yesterday's hard hats for today's EMU helmets. And Steve and Soichi-- be sure and take a moment to view the earth while you are outside today!

ISS Summary

Yesterday, CMG 3 experienced four instances of Hall resolver side bearing instabilities. Since bearing instabilities can decrease the lifetime of a bearing which has inadequate lubrication, MCC-H is working a plan that would extend Orbiter attitude control of the mated stack from EVA 1 until CMG 2 is brought on-line (expected to be after Simo Dump on FD6). After this time CMG 3 would remain off line for the remainder of the mated mission & CMGs 2 & 4 (and then CMG 1 after EVA 2) would control attitude of the mated stack.

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 63 - 3/22:32
NOR 17 ORB 79 – 4/22:59

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	303 FPS
ARCS (TOTAL ABOVE QTY1)	28 FPS	30 FPS
TOTAL IN THE AFT	356 FPS	333 FPS
ARCS (TOTAL ABOVE QTY2)	57 FPS	62 FPS
FRCS (ABOVE QTY 1)	36 FPS	38 FPS
AFT QTY 1	85 %	85%
AFT QTY 2	47 %	47%

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

Good morning Wendy, Charlie, and crew!

Thanks for the hard work in the MPLM yesterday. It sounds like it is ready and setup for the next few days of “transfa”.

Well, we have more good news! There are no change pages to the Transfer List today.

The Transfer List Excel file, LF1_TransferList_FD03.xls, is located on the KFX machine in **C:\OCA-up\transfer.**

For ISS, the Transfer List Excel file, LF1_ TransferList_FD03.xls, is located in **K:\OCA-up\transfer.**

Transfer Notes
Again, hold-off on transferring Item #482.3. Expect changes to this item soon.

-The Transfer Team-

We have attached a summary file from Friday's FD4 MMT. The file contains the key items of interest from a much larger presentation from the TPS experts. Much of this presentation focused on history of protruding tile gap fillers which we have experienced on at least 9 previous flights, and had as many as 18 protruding gap fillers on a single mission.

In terms of non RCC TPS damage assessments, based on the latest data, there are a total of 29 areas of interest on the lower surface and 15 on the upper surface. The upper surface areas of interest include the thermal blanket protrusion below window 1 and the protruding blanket on the vertical tail. Of course the analysis of the FD4 focused inspection data is underway, but as of today there are no significant areas of concern.

The highest interest areas for further analysis are the thermal blanket below window 1, the right hand nose landing gear door tile damage, and two protruding gap fillers on the lower surface. One of these is aft of the nose landing gear door on the starboard side and is actually what engineers call a small piece of ceramic shim. The other protrusion is on the port chine and is the traditional Ames gap filler. As you know the concern with protruding gap fillers is an early transition from laminar to turbulent flow, which has been observed on other missions. This can result in increased entry heating on the order of 30% higher when transition to turbulent flow occurs early.

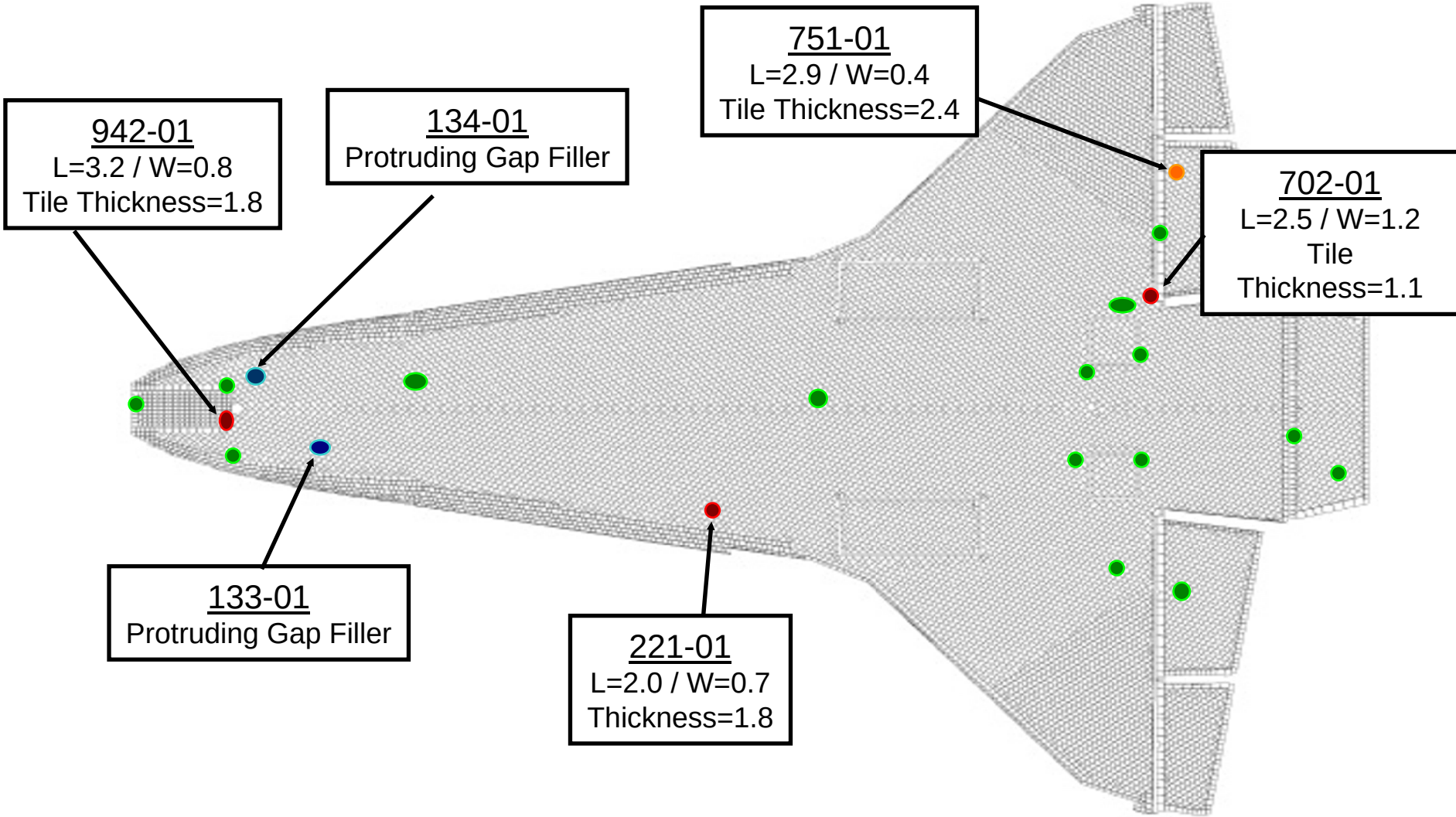
In summary, all tile damage observed to date has been small in area, and the depth generally shallow. For example, the nose landing gear door tile damage is 3.2 inches wide x 0.8 inches long x 0.33 inches deep. The tile in this area is 1.8 inches thick, so you can see that the damage is minimal.

There were no significant updates to the RCC status today. The imagery teams continue to complete the LDRI Level II analysis in addition to the results from the FD4 focused inspections, and we expect to learn more in the FD5 MMT. The folks have generally been very pleased with the LDRI and LCS data, including that which came down on FD4.

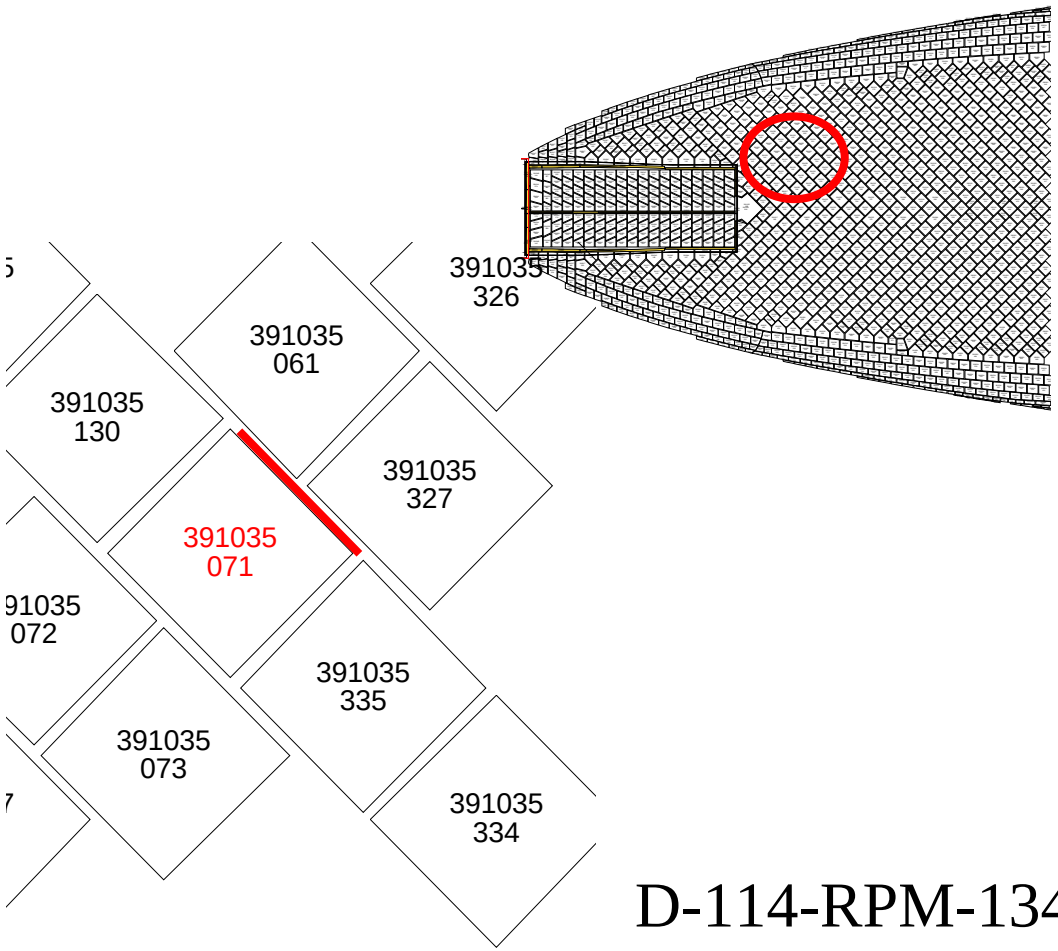
Barring any new developments, we anticipate that the team will be able to declare Discovery's TPS ready for deorbit and entry on or about the end of FD6.

Keep up the great work!

Composite Lower Surface Damage Sites Requiring DAT Evaluation



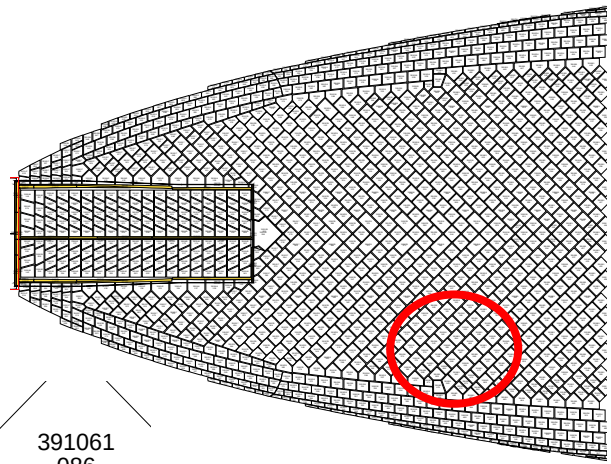
Protruding Ceramic Shim Aft of NLGD

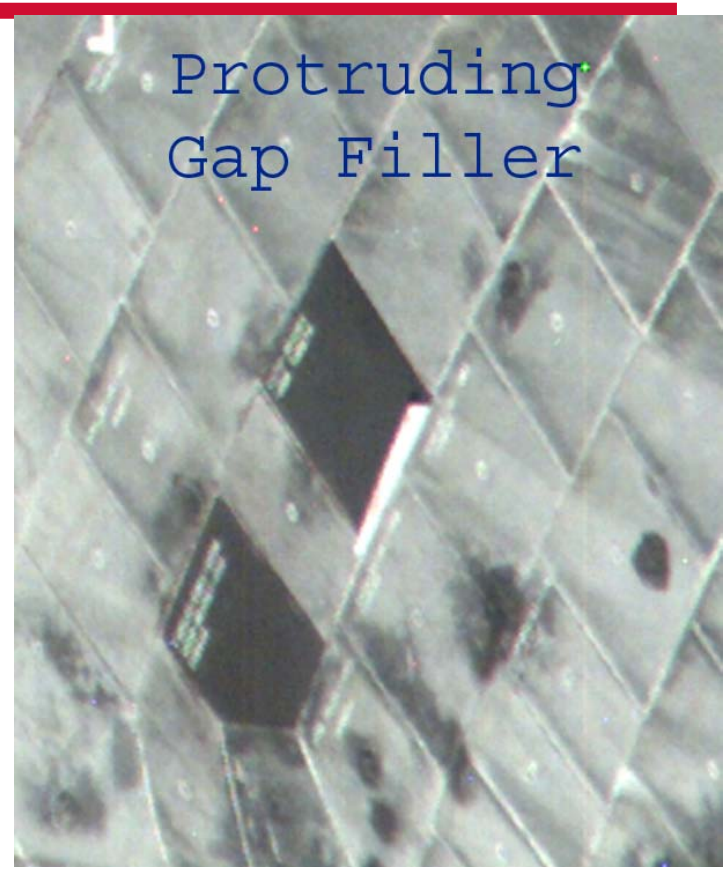


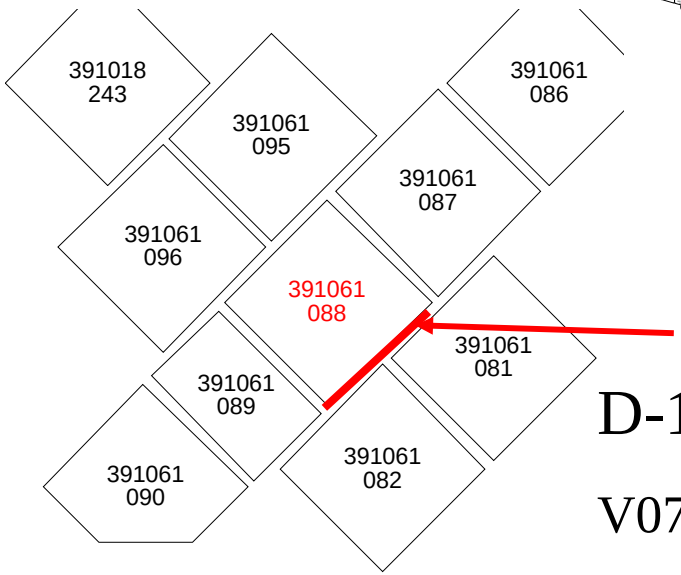
D-114-RPM-134-01

V070-391035-071 & 327

Protruding Gap Filler near Chine





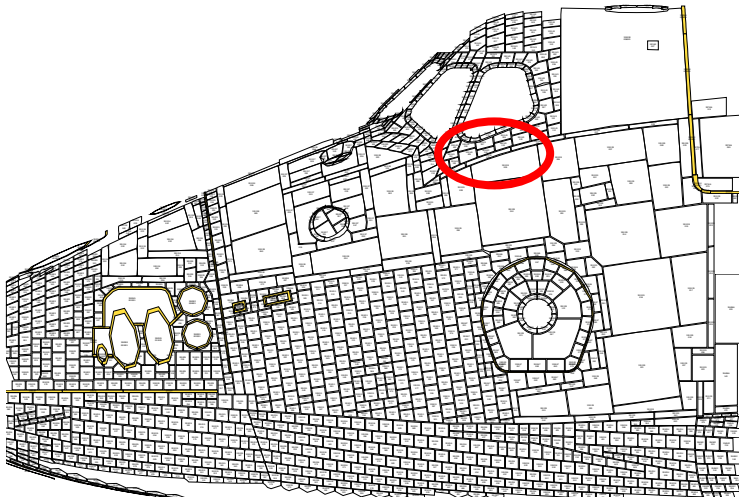


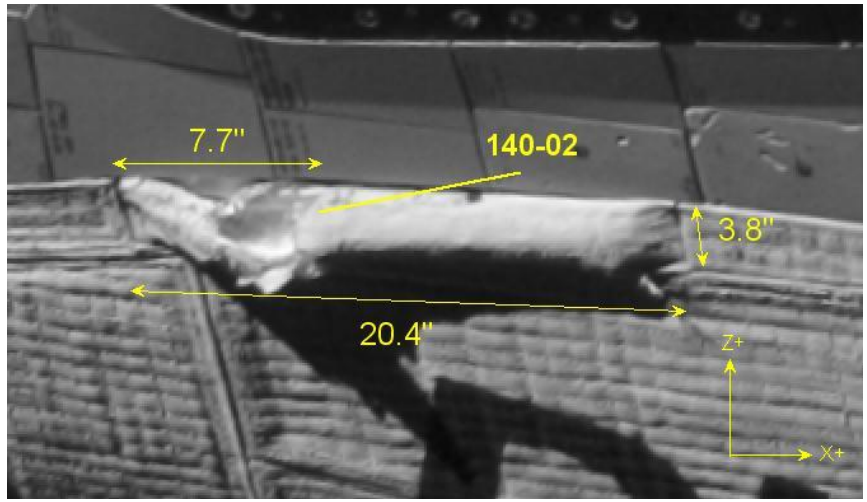
D-114-RPM-133-01

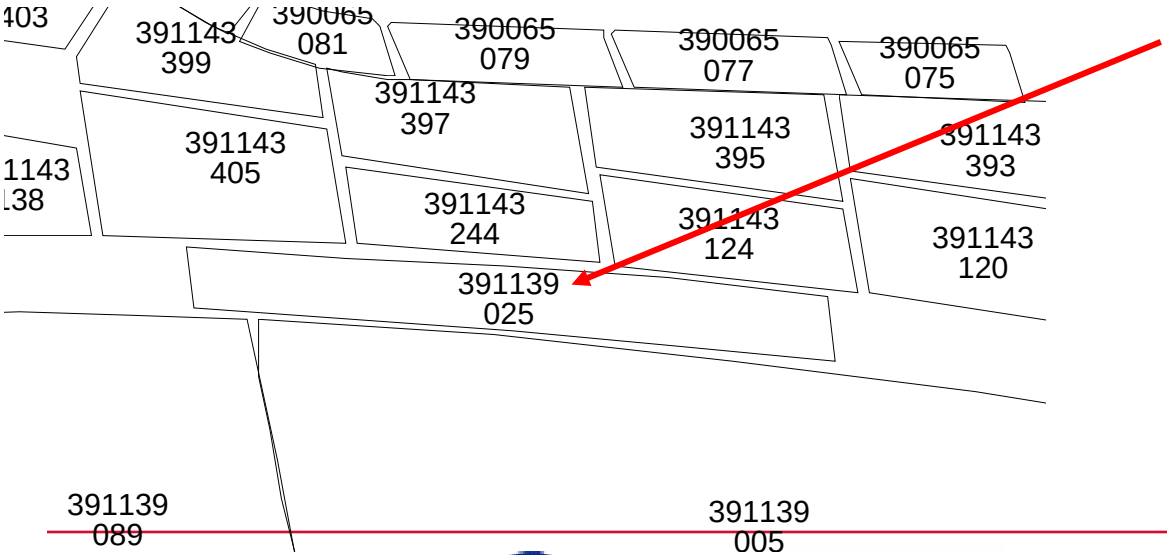
V070-391061-081, -088, -082

Tile Thickness: 2.0”

Blanket Damage Near Window 1







D-114-RPM-140-02

V070-391139-025 Blanket

Damage: 20.4” x 3.8”

Thickness: 0.58”

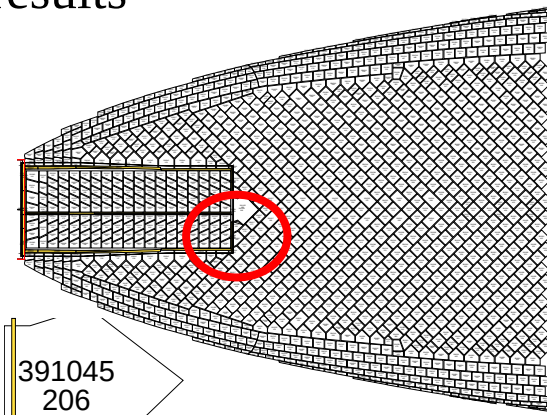
RH NLGD Tile Damage

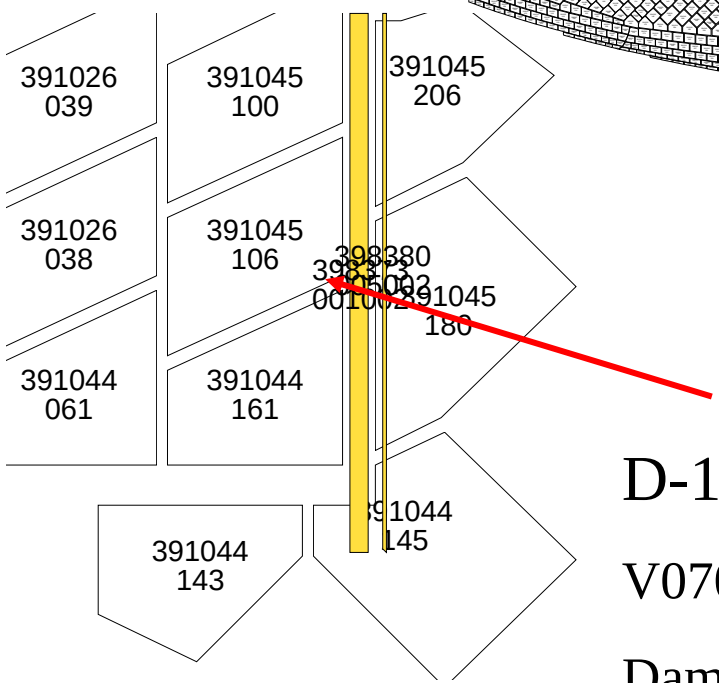
Preliminary LCS results

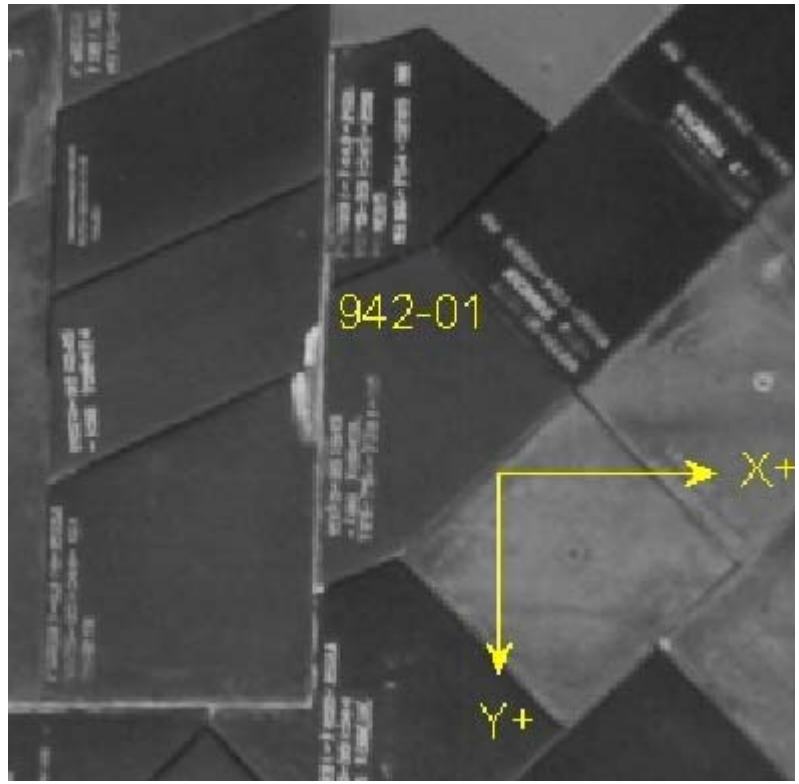
L=0.72”

W=3.07”

D=0.33”±0.042”





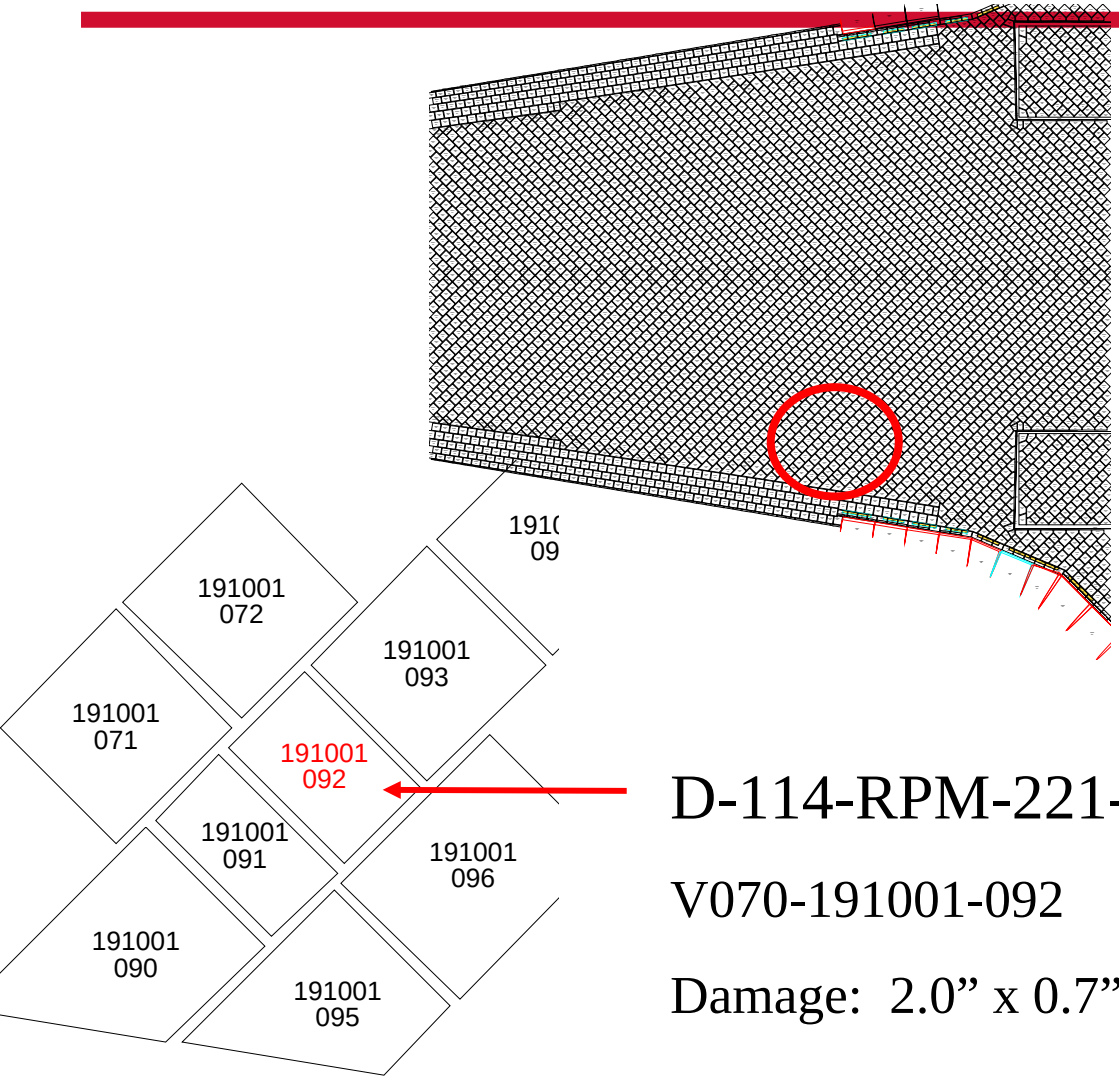


D-114-RPM-942-01

V070-391045-106 & V070-391044-161

Damage: 3.2” x 0.8” Tile thickness: 1.8”

Right Wing Chine Tile Damage

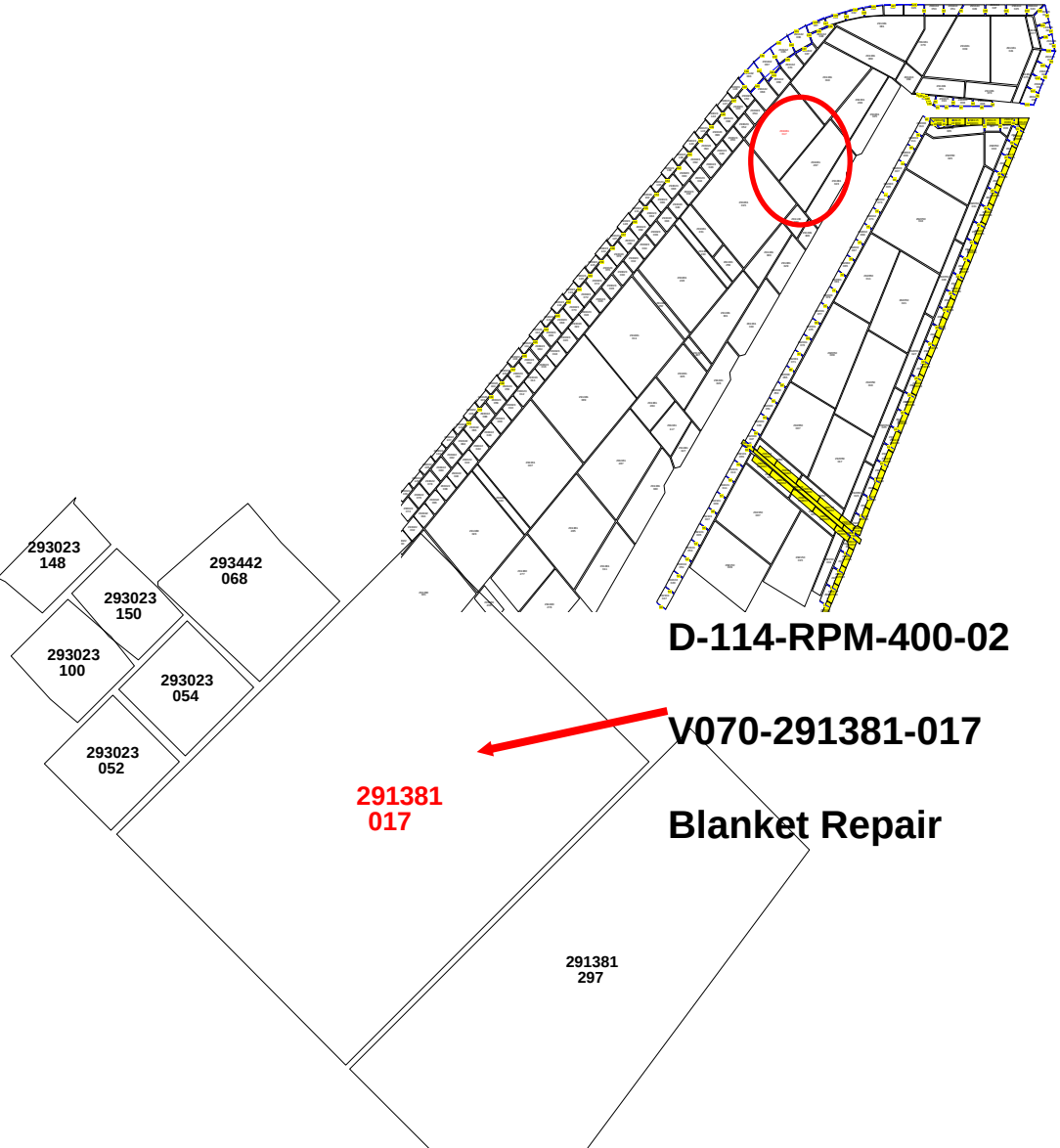


D-114-RPM-221-01

V070-191001-092

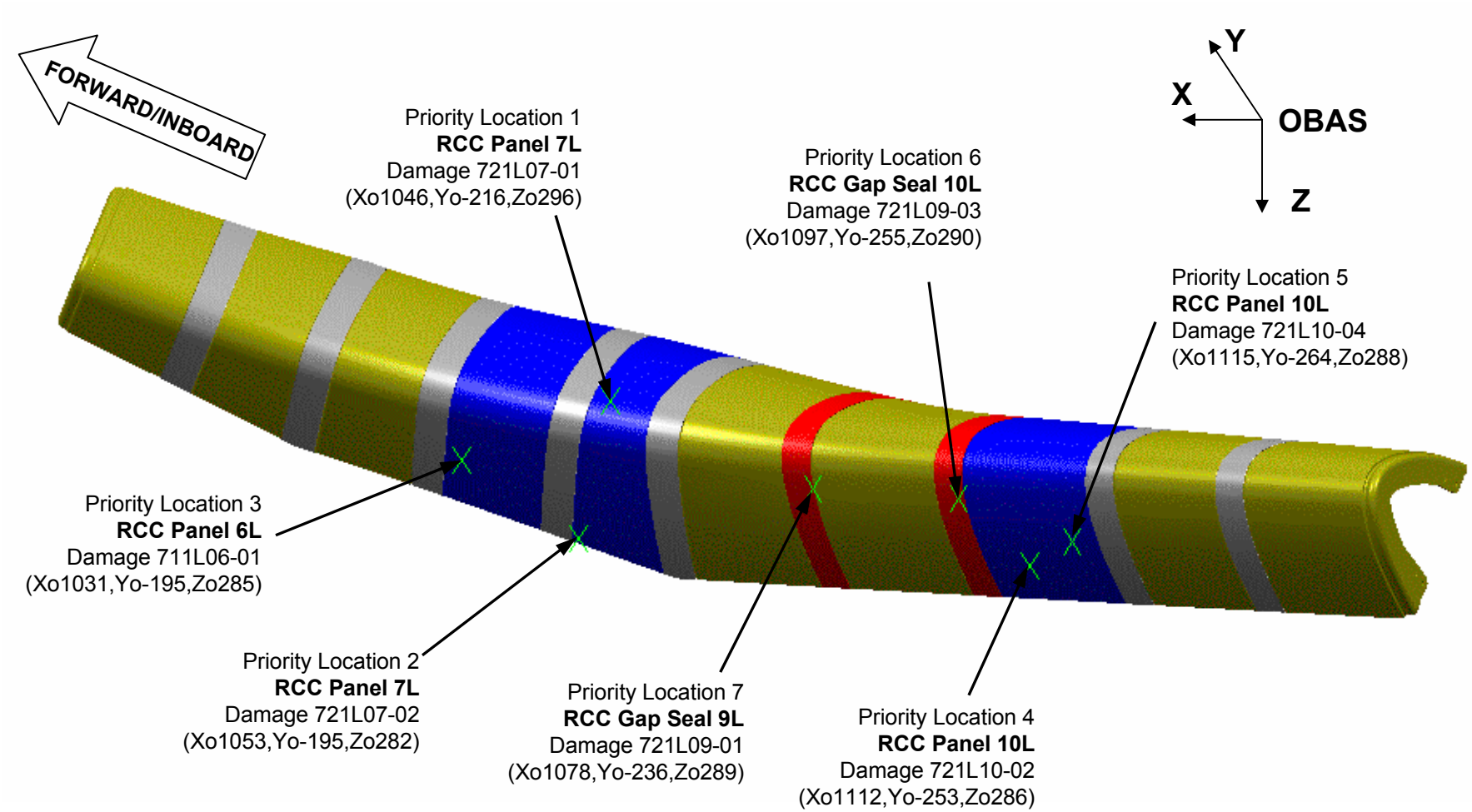
Damage: 2.0” x 0.7” Tile Thickness: 1.75”

Protruding Blanket on Vertical Tail



D-114-RPM-400-02

V070-291381-017

Blanket Repair

FD5 Port Wing RCC Survey Locations