

**Docket No. SA-532**

**Exhibit No. 7-F**

**NATIONAL TRANSPORTATION SAFETY BOARD**

**Washington, D.C.**

Addendum 1  
Structures Group Chairman's  
Attachment 2 to the Factual Report  
Photos

(54 Pages)



**NATIONAL TRANSPORTATION SAFETY BOARD**  
Office of Aviation Safety  
Washington, D.C. 20594

## **ADDENDUM 1**

### **STRUCTURES GROUP CHAIRMAN'S FACTUAL REPORT**

DCA09MA026  
May 26, 2009

Attachment 2  
Photos

Accident #: DCA09MA026	N106US
Description: Skin panel damage section 16/17 frame 59 to frame 64.	
	
Photo 1	

Accident #: DCA09MA026

N106US

Description: Section 16/17 LH.



Photo 2





Accident #: DCA09MA026 | N106US

Description: Section 16/17 LH FR59 to FR62.



Photo 5

Accident #: DCA09MA026 | N106US  
Description: Section 16/17 LH FR 62 to FR 65.



Photo 6



Accident #:DCA09MA026 | N106US

Description: Aft lower fuselage viewed looking up.

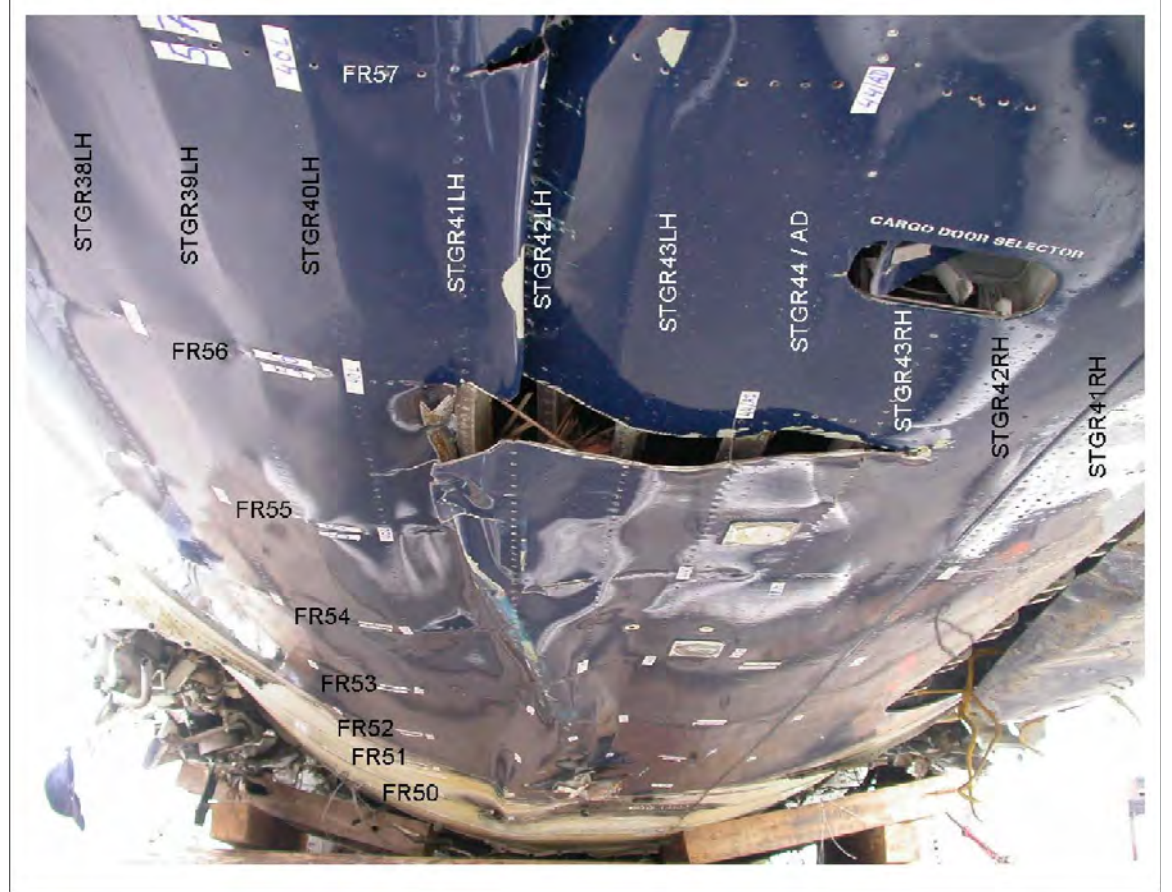


Photo 7

Accident #: DCA09MA026 | N106US

Description: LH FR53 to 54 viewed looking up.

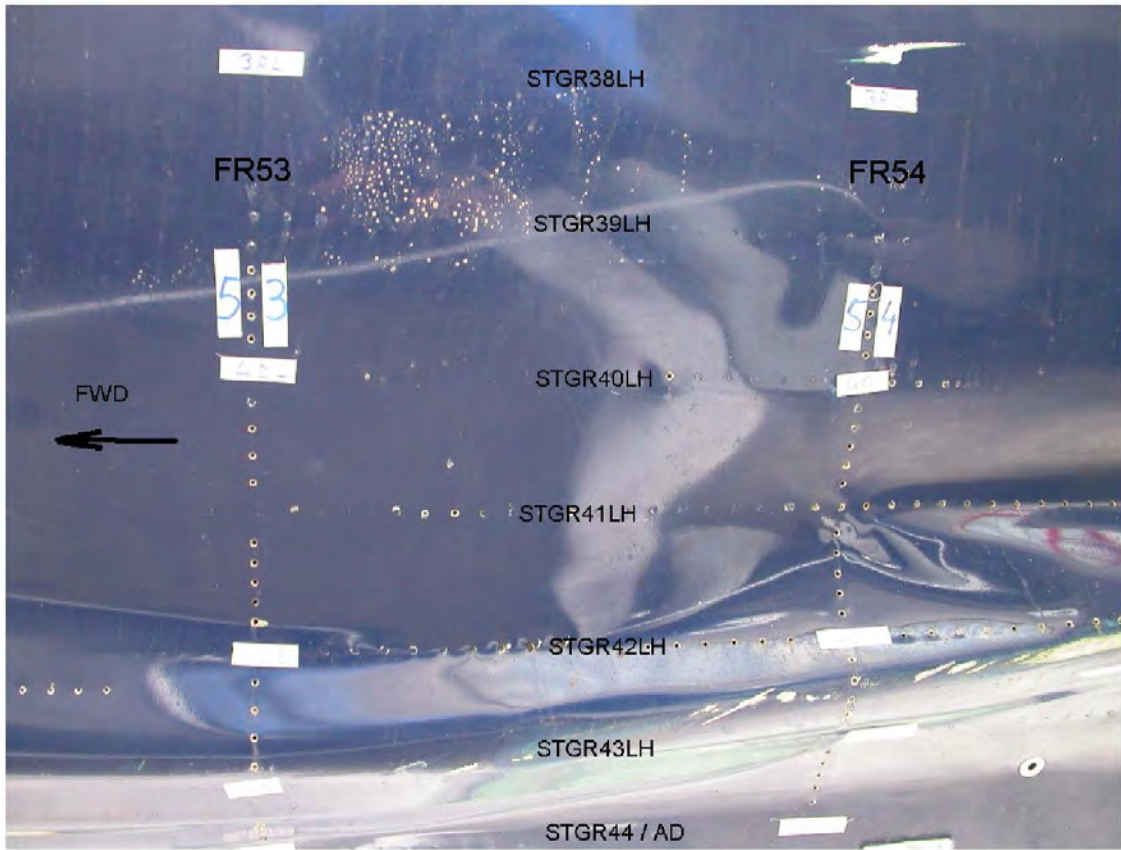


Photo 8

Accident#: DCA09MA026 | N106US

Description: LH FR54 to 55 viewed looking up.

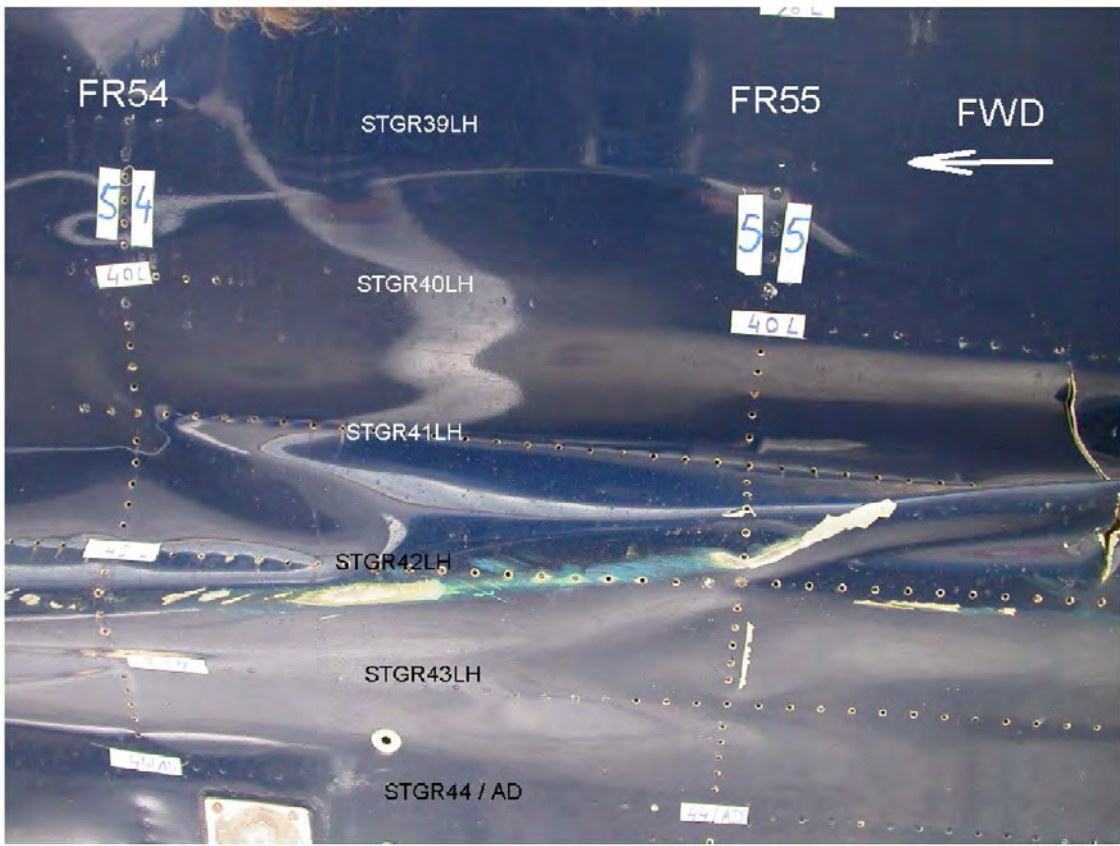


Photo 9

Accident #: DCA09MA026 | N106US

Description: LH FR55 to FR56 viewed looking up.

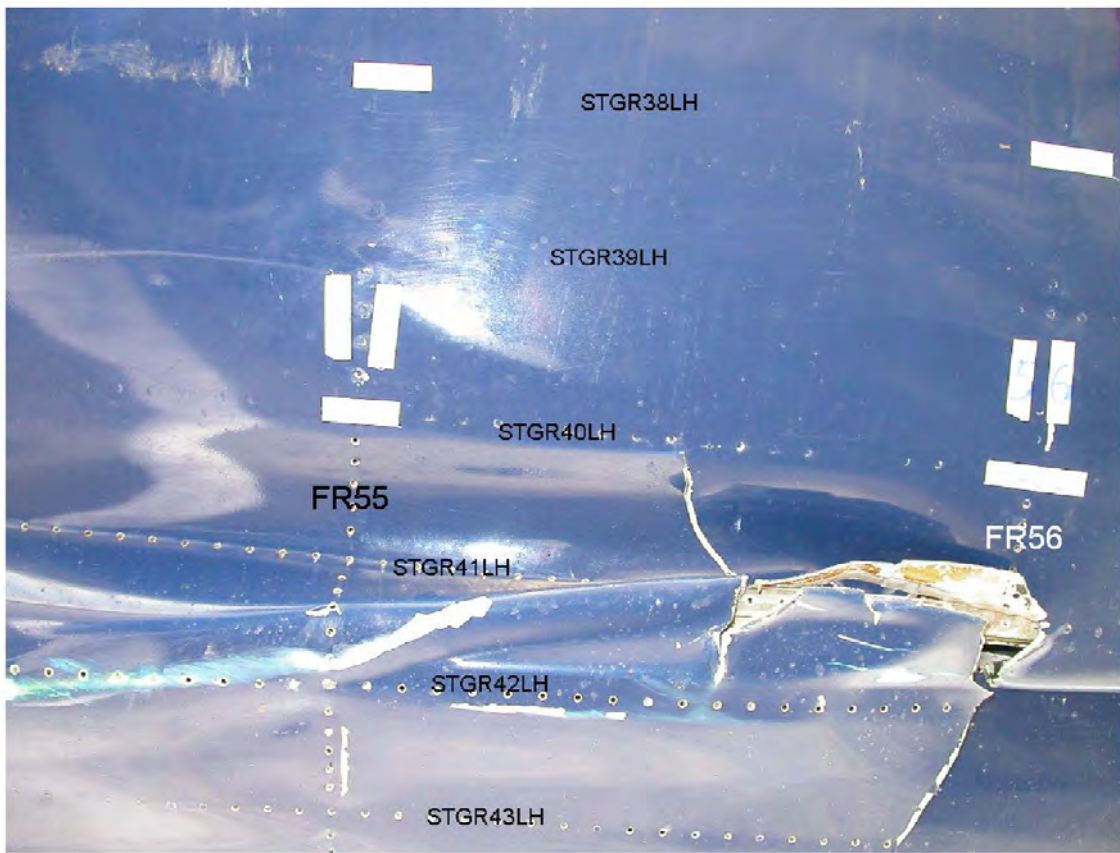


Photo 10

Accident #:DCA09MA026 | N106US

Description: LH Frame 56 viewed looking up.

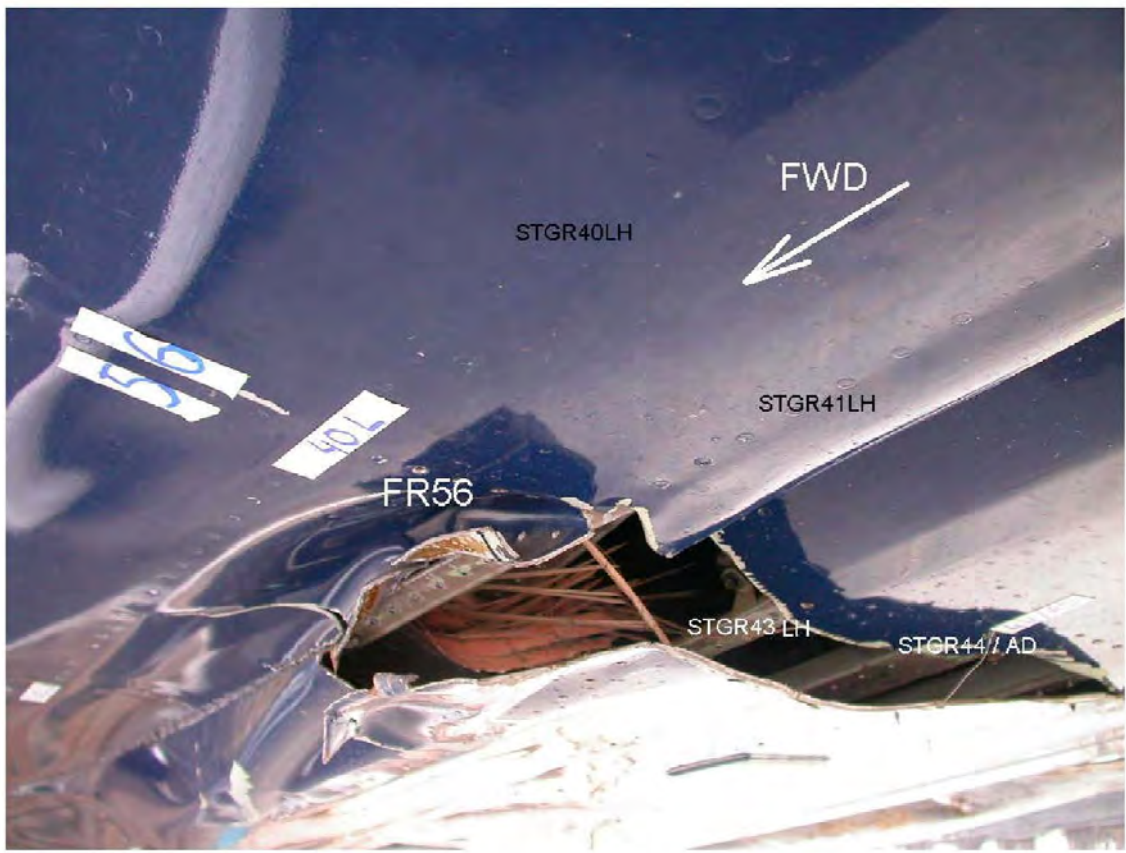


Photo 11

Accident #: DCA09MA026 | N106US  
Description: LH Frame 56 viewed looking up.

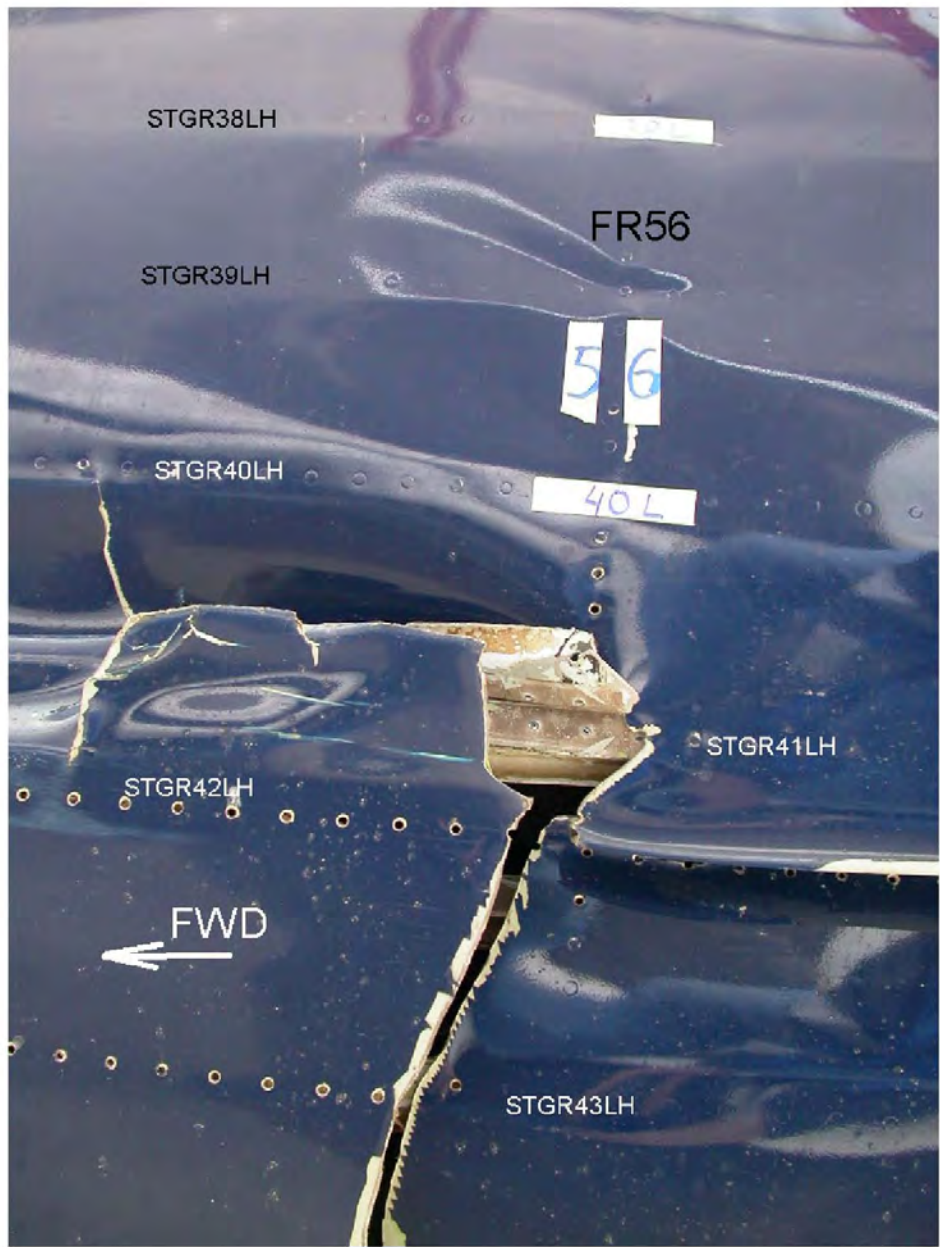


Photo 12

Accident #: DCA09MA026 | N106US

Description: LH FR56 and FR57 viewed looking up.

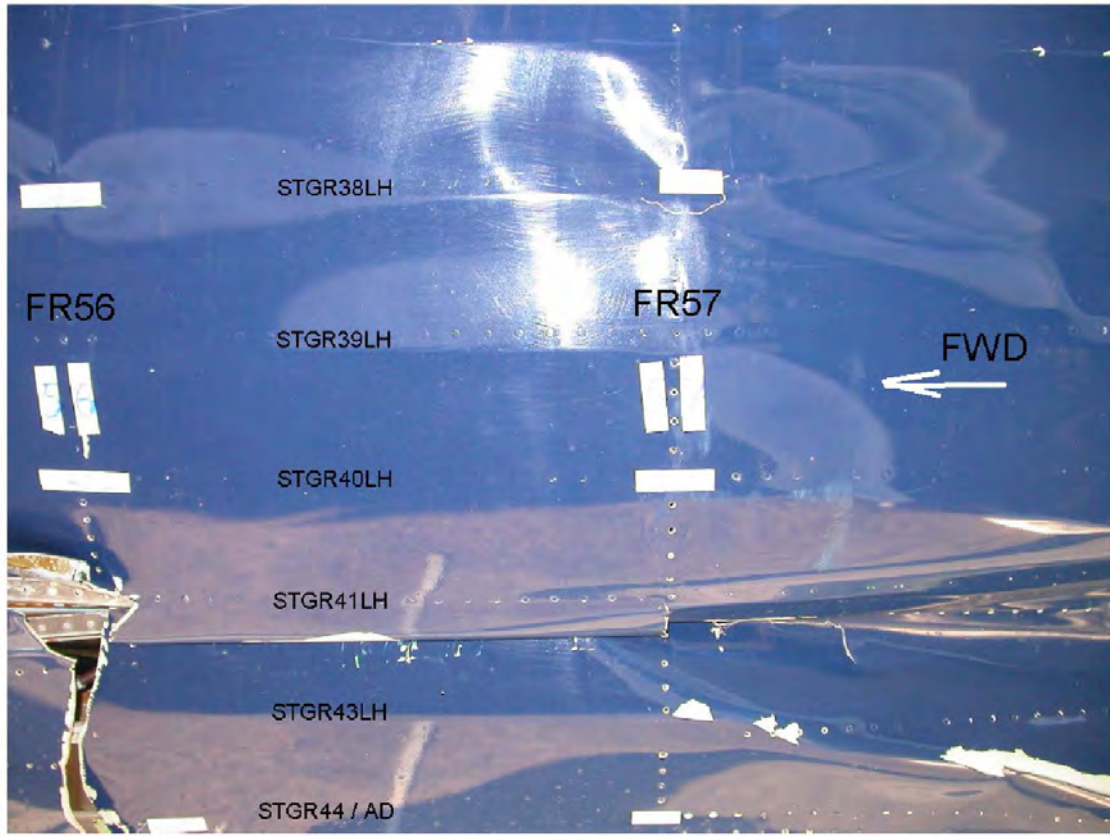


Photo 13

Accident #: DCA09MA026 | N106US

Description: LH FR58 and FR59 viewed looking up.

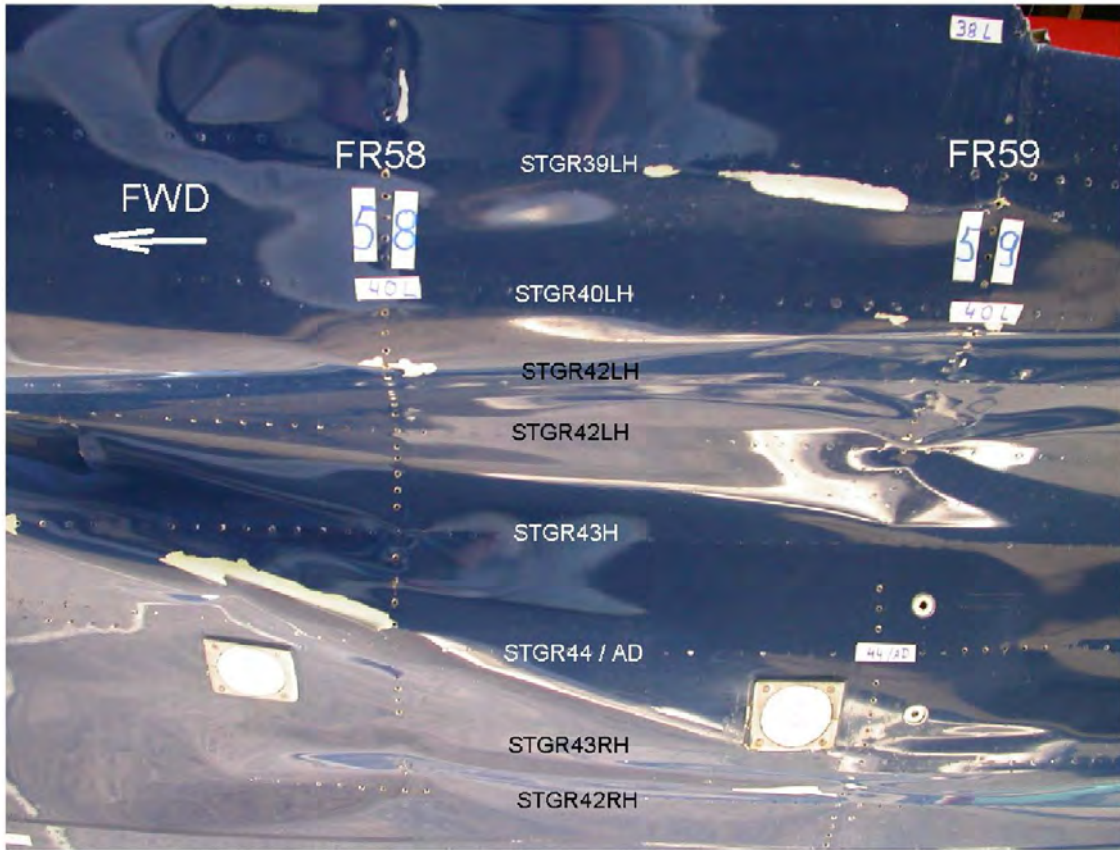


Photo 14



Accident #: DCA09MA026 | N106US

Description: LH Frame 59 and 60 viewed looking up.

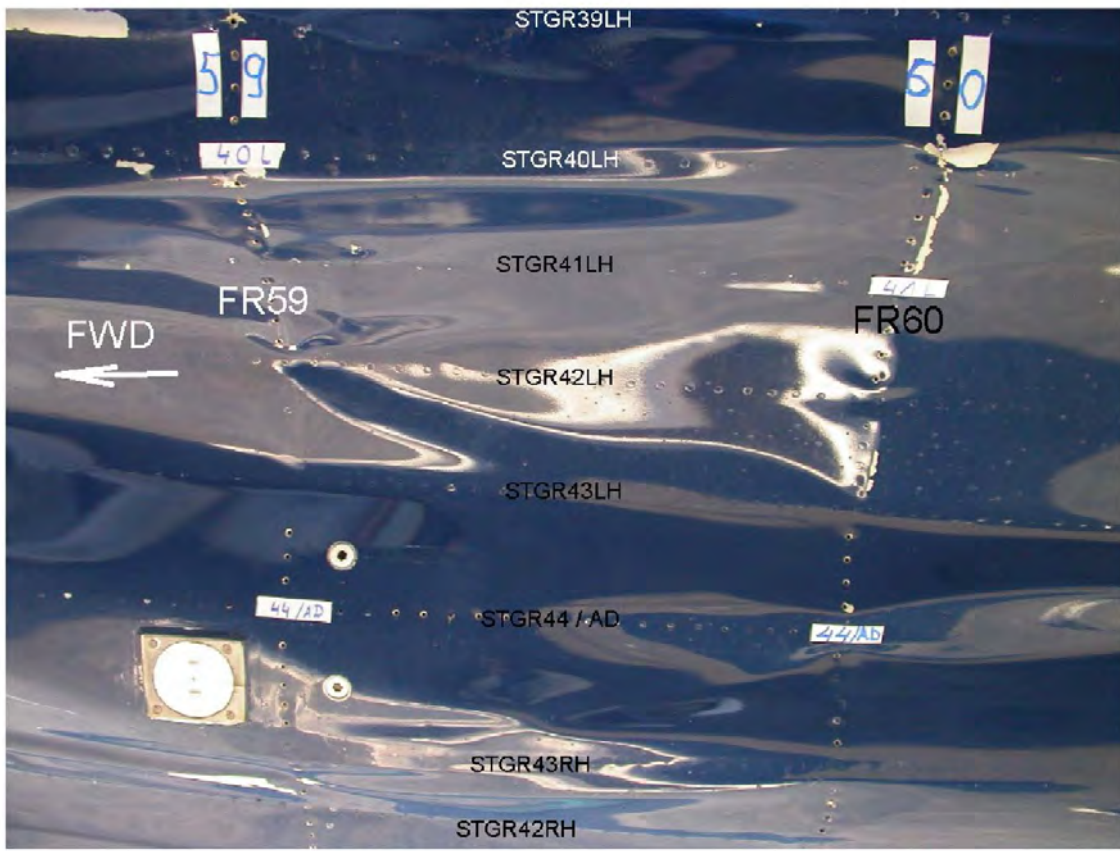
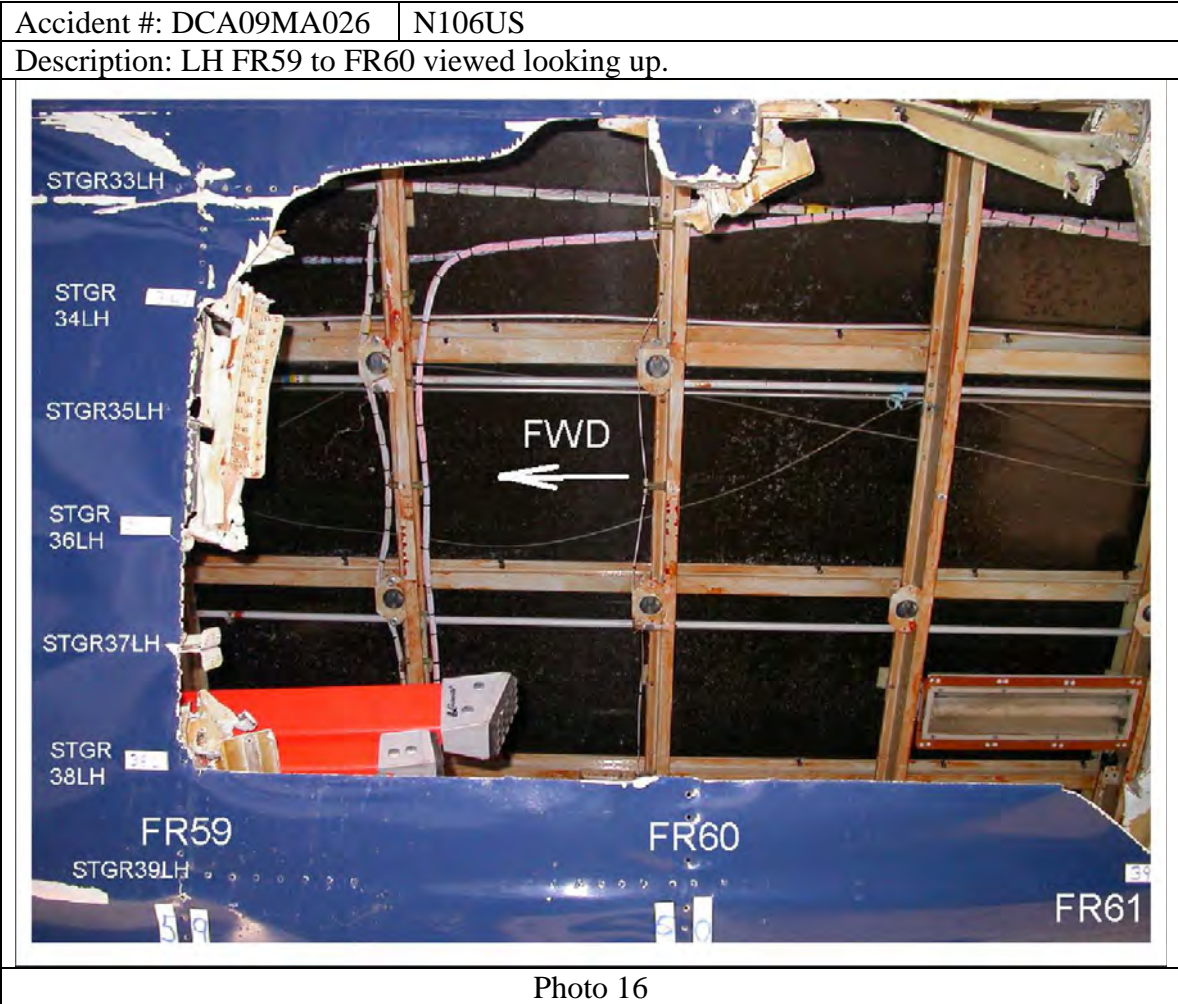


Photo 15



Accident #: DCA09MA026 | N106US

Description: LH Frame 62 viewed looking up.



Photo 17

Accident #: DCA09MA026 | N106US

Description: RH Frame 56 to 65.

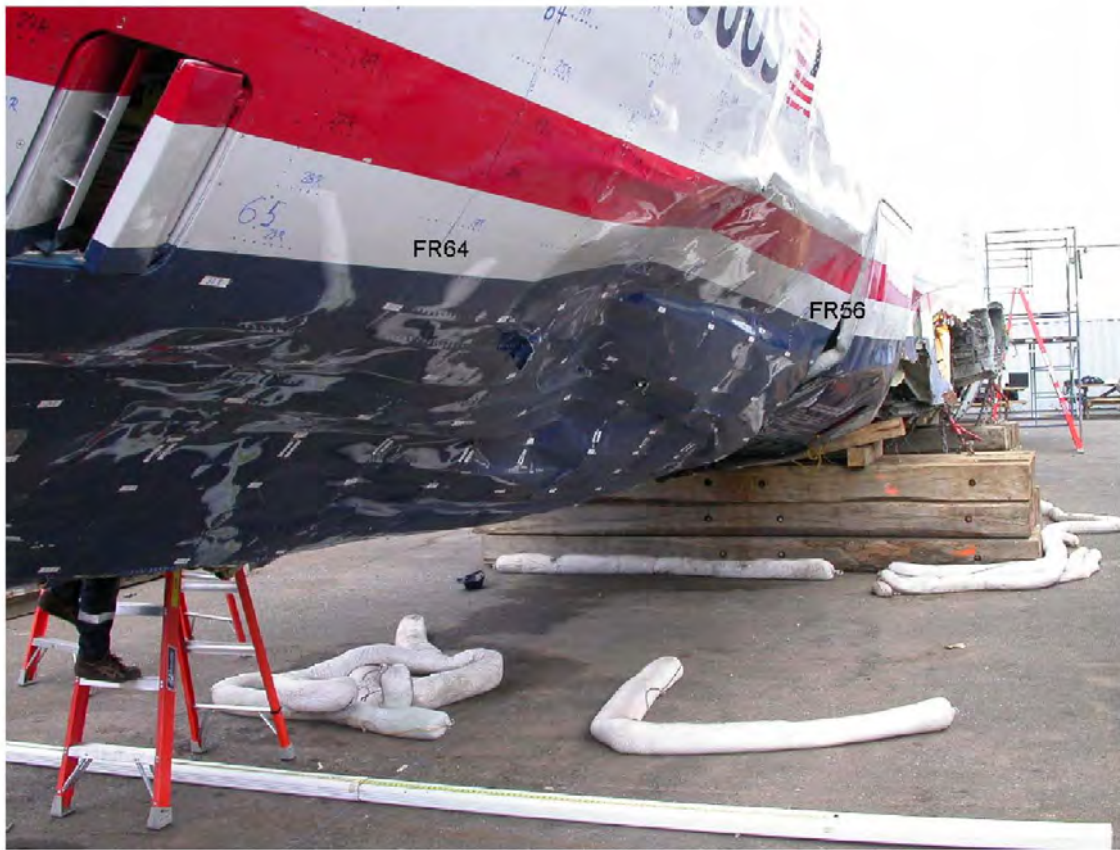


Photo 18

Accident #: DCA09MA026 | N106US

Description: RH F57 to FR 63.



Photo 19

Accident #: DCA09MA026 | N106US

Description: RH FR57 to FR62.



Photo 20

Accident #: DCA09MA026 | N106US

Description: RH FR57 to FR62.



Photo 21

Accident #: DCA09MA026 | N106US

Description: RH FR62.



Photo 22



Accident #: DCA09MA026 | N106US

Description: LH FR64 to FR70.



Photo 23

Accident #: DCA09MA026 | N106US

Description: LH FR64 to FR66.



Photo 24

Accident #: DCA09MA026 | N106US

Description: LH FR67 to FR69.



Photo 25

Accident #: DCA09MA026 | N106US

Description: LH FR67 to FR70.



Photo 26

Accident #: DCA09MA026 | N106US

Description: RH Frame 68.



Photo 27

Accident #: DCA09MA026 | N106US

Description: RH Frame 69.



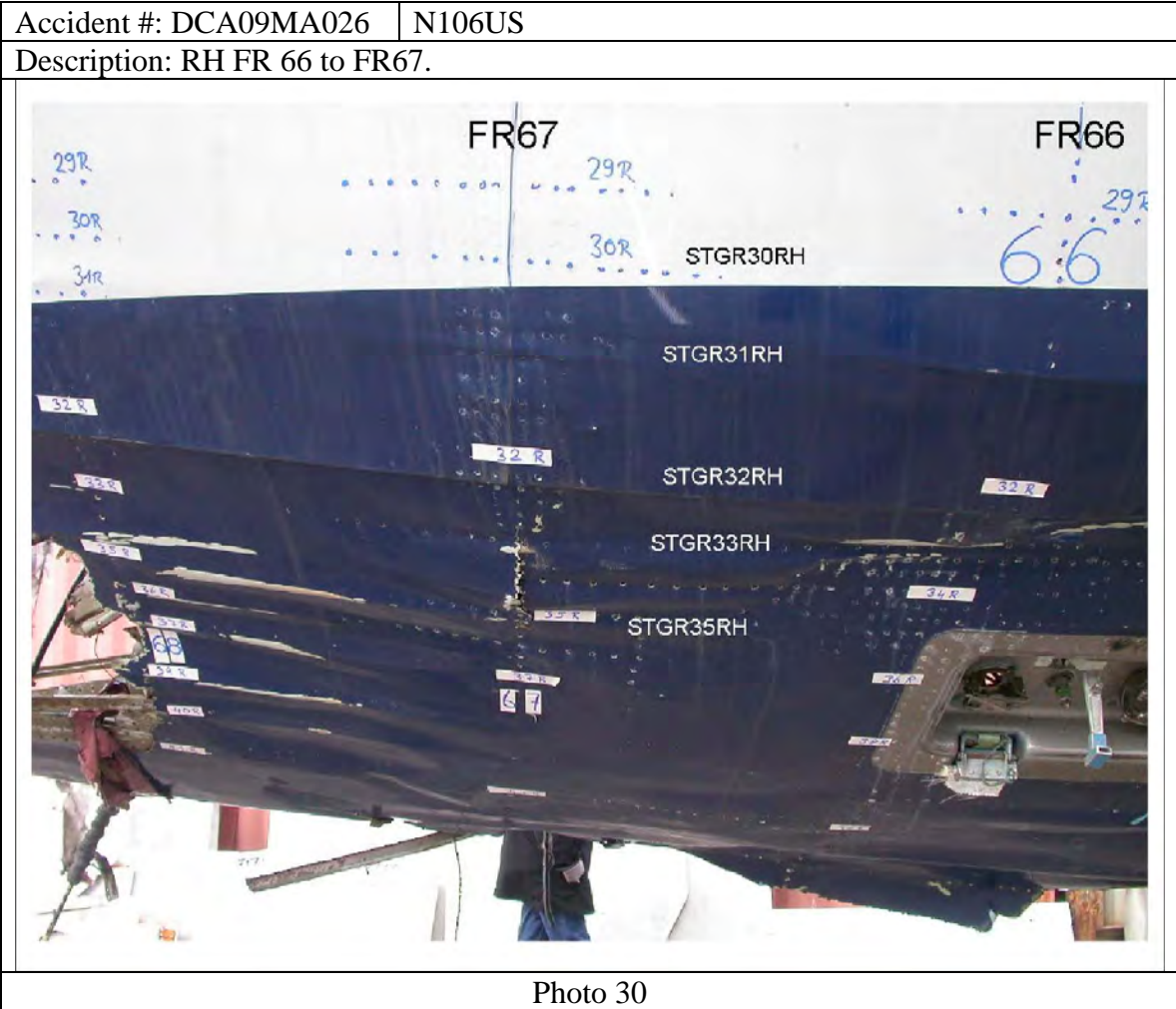
Photo 28

Accident #: DCA09MA026 | N106US

Description: RH FR64 to FR65.



Photo 29





Accident #: DCA09MA026 | N106US

Description: RH FR65 to FR66.

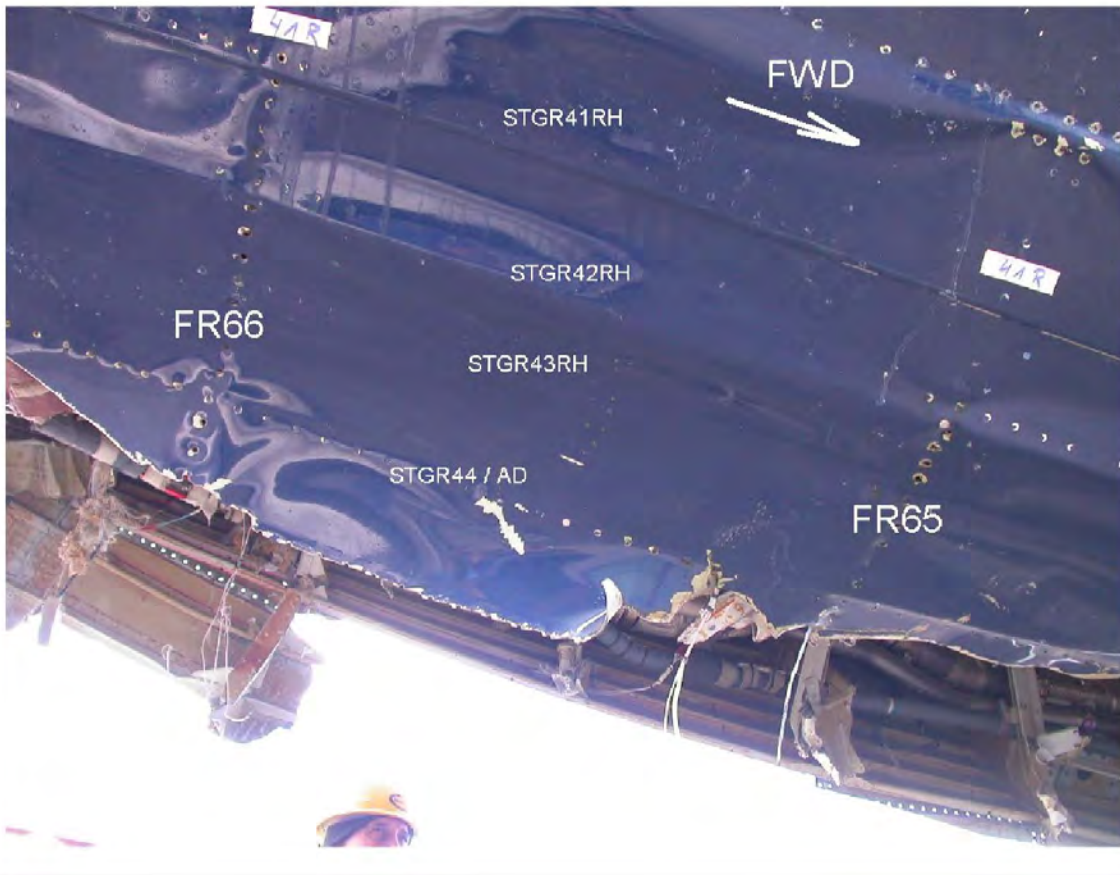
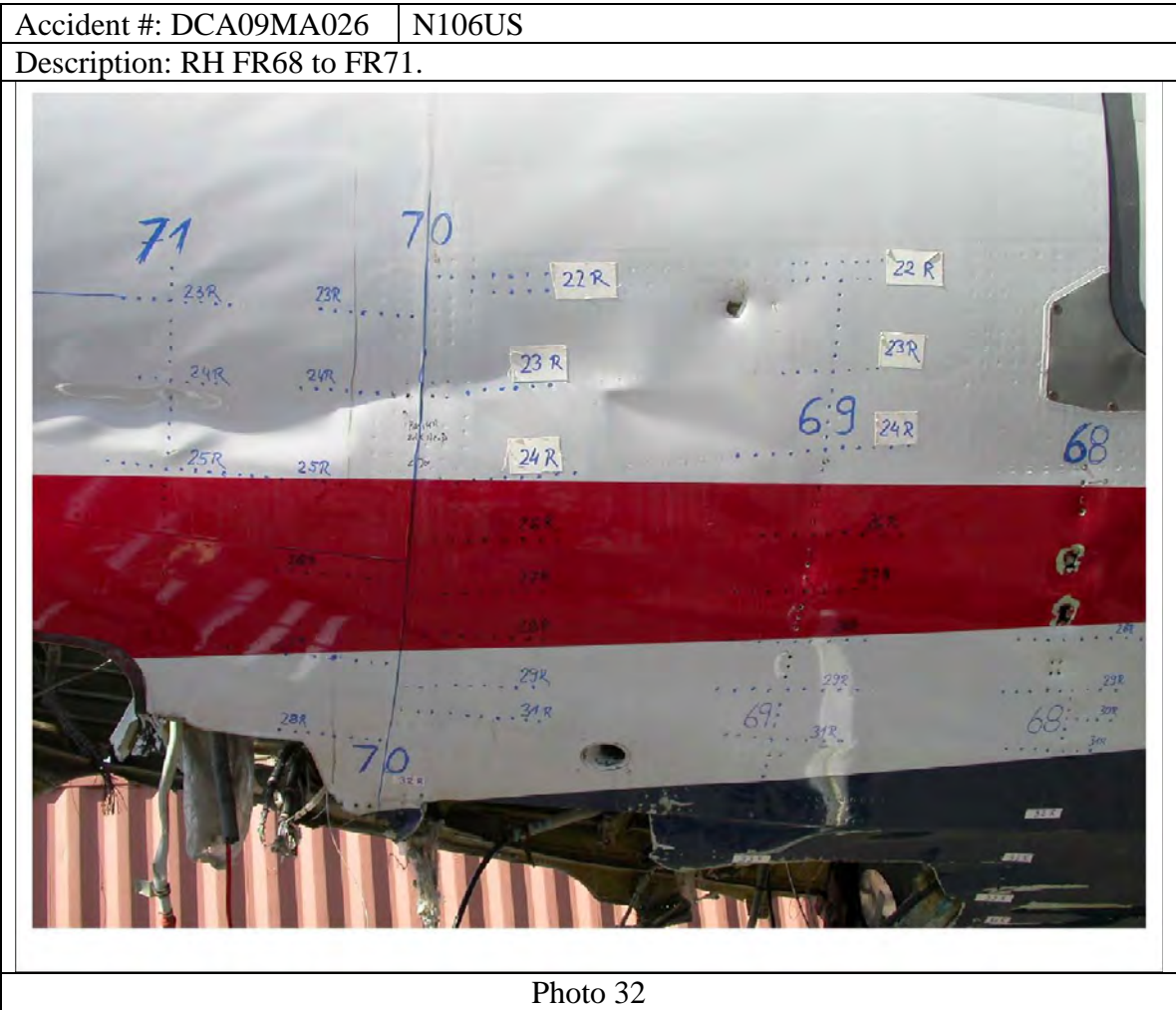
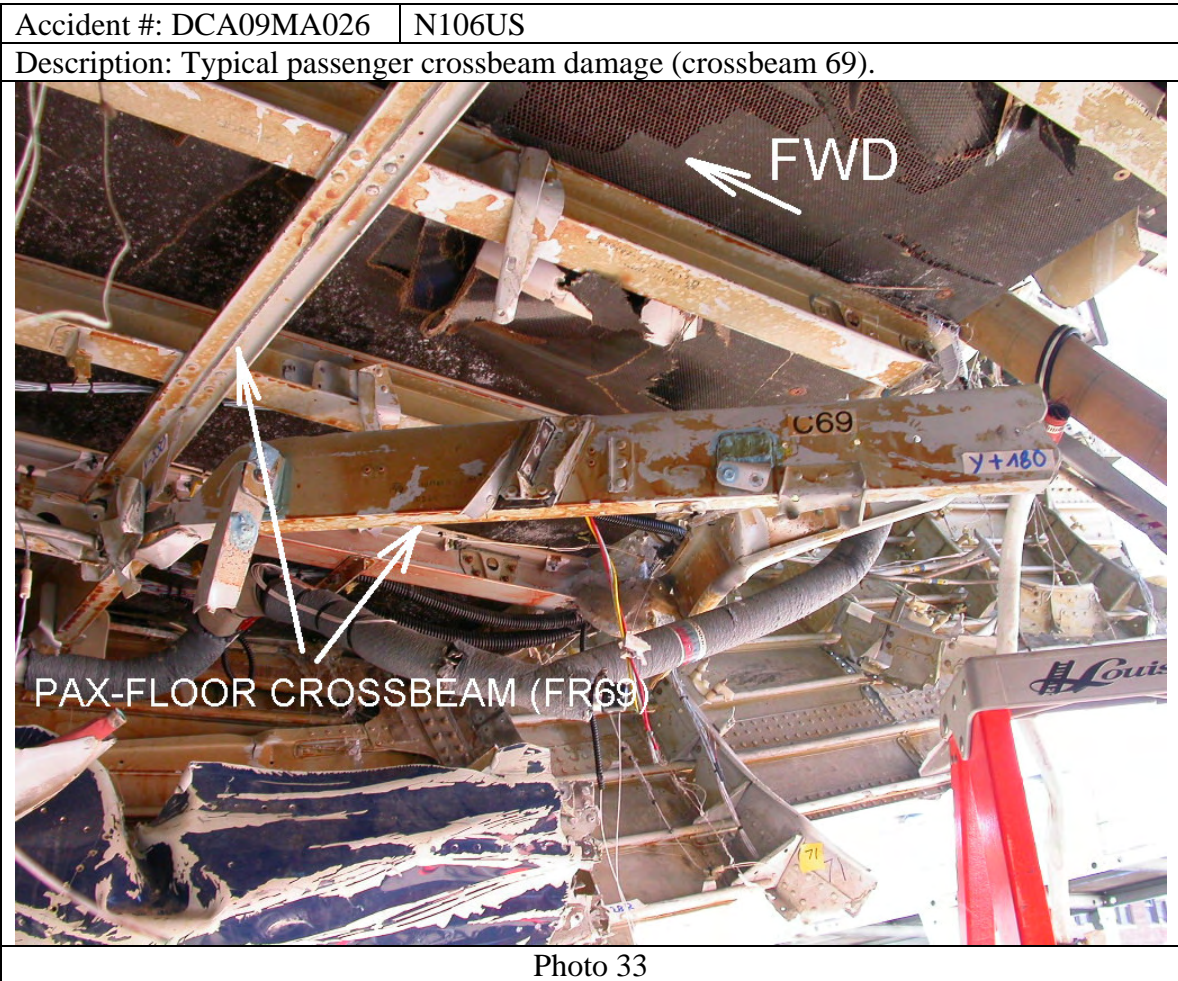
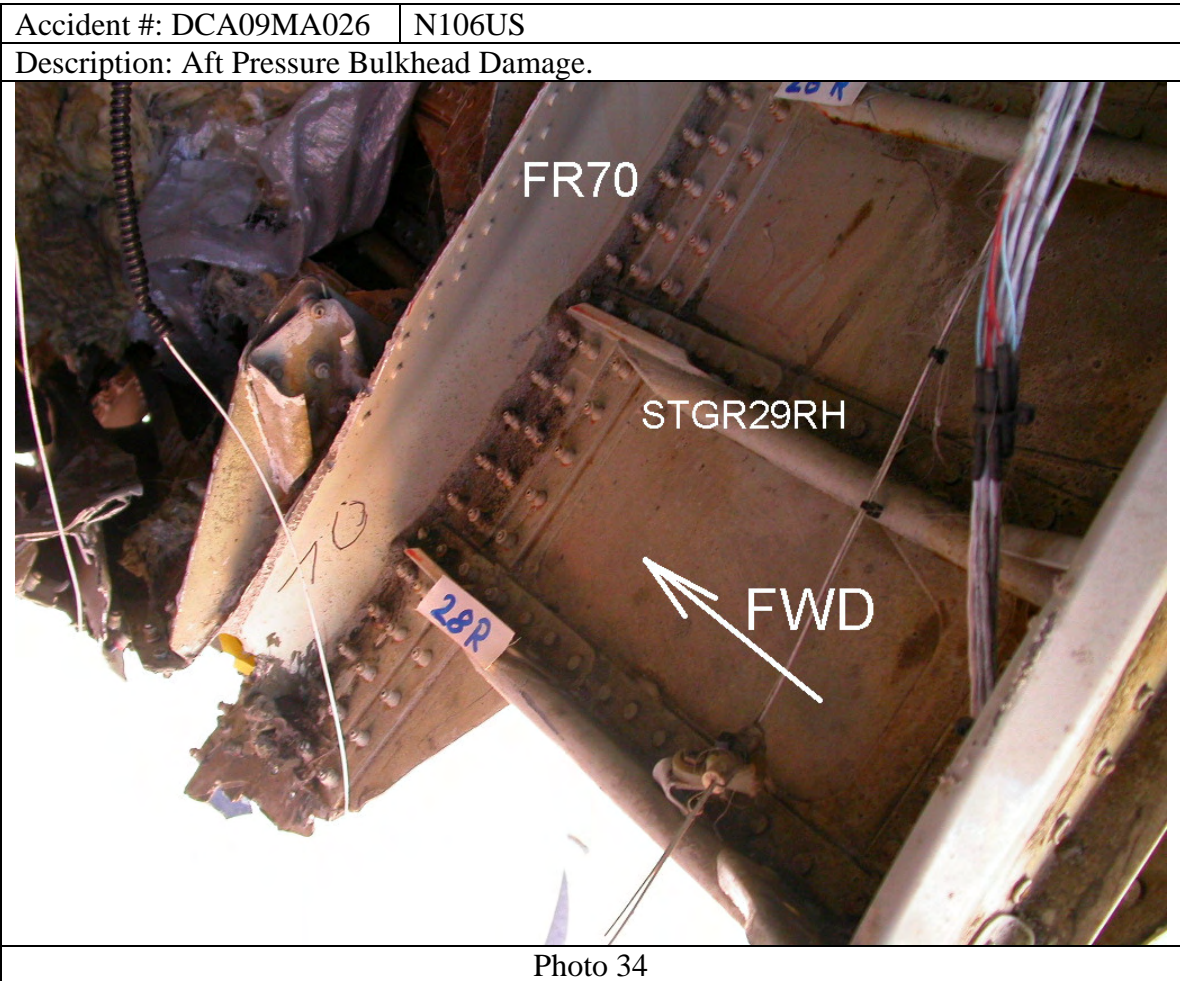


Photo 31







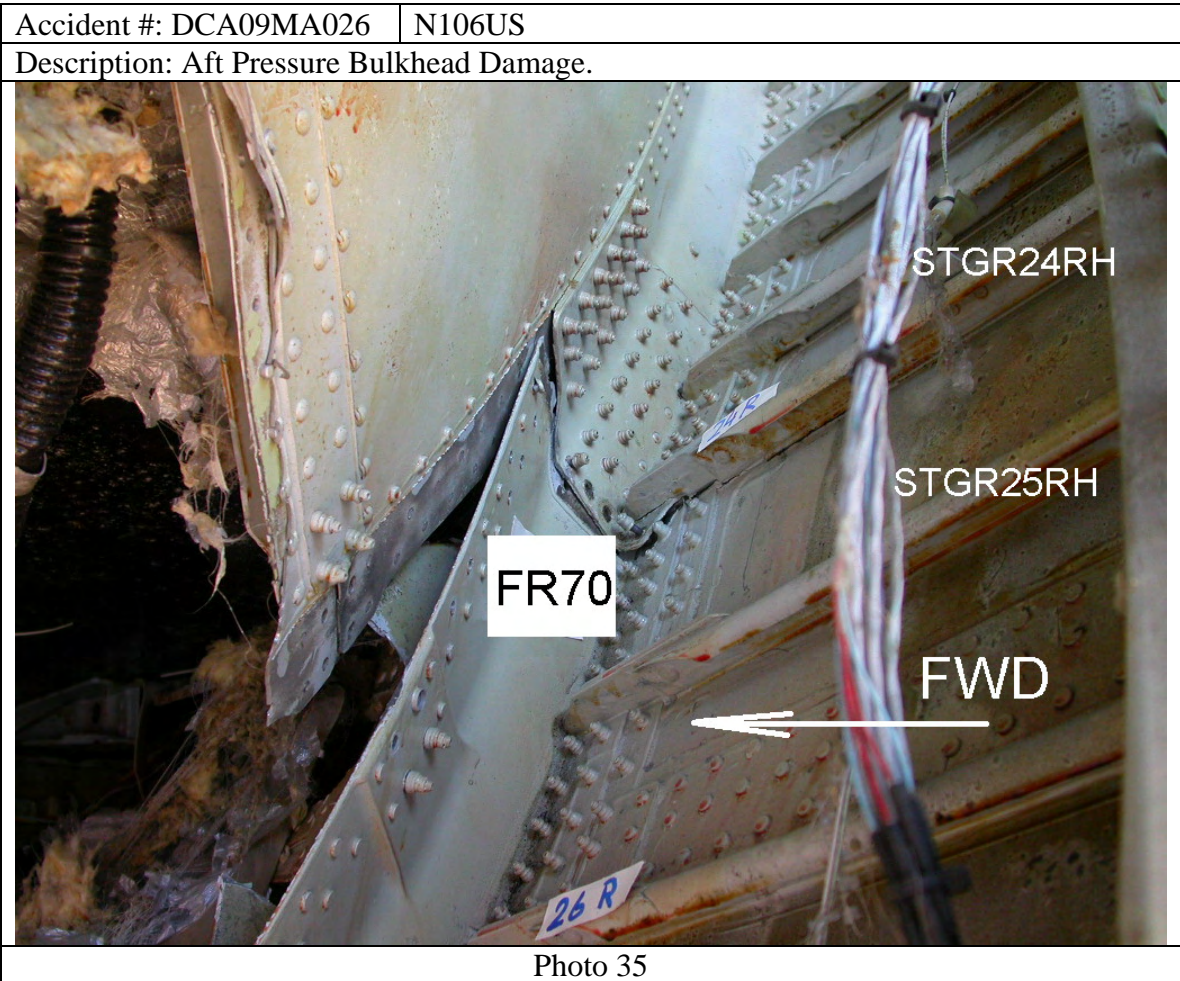
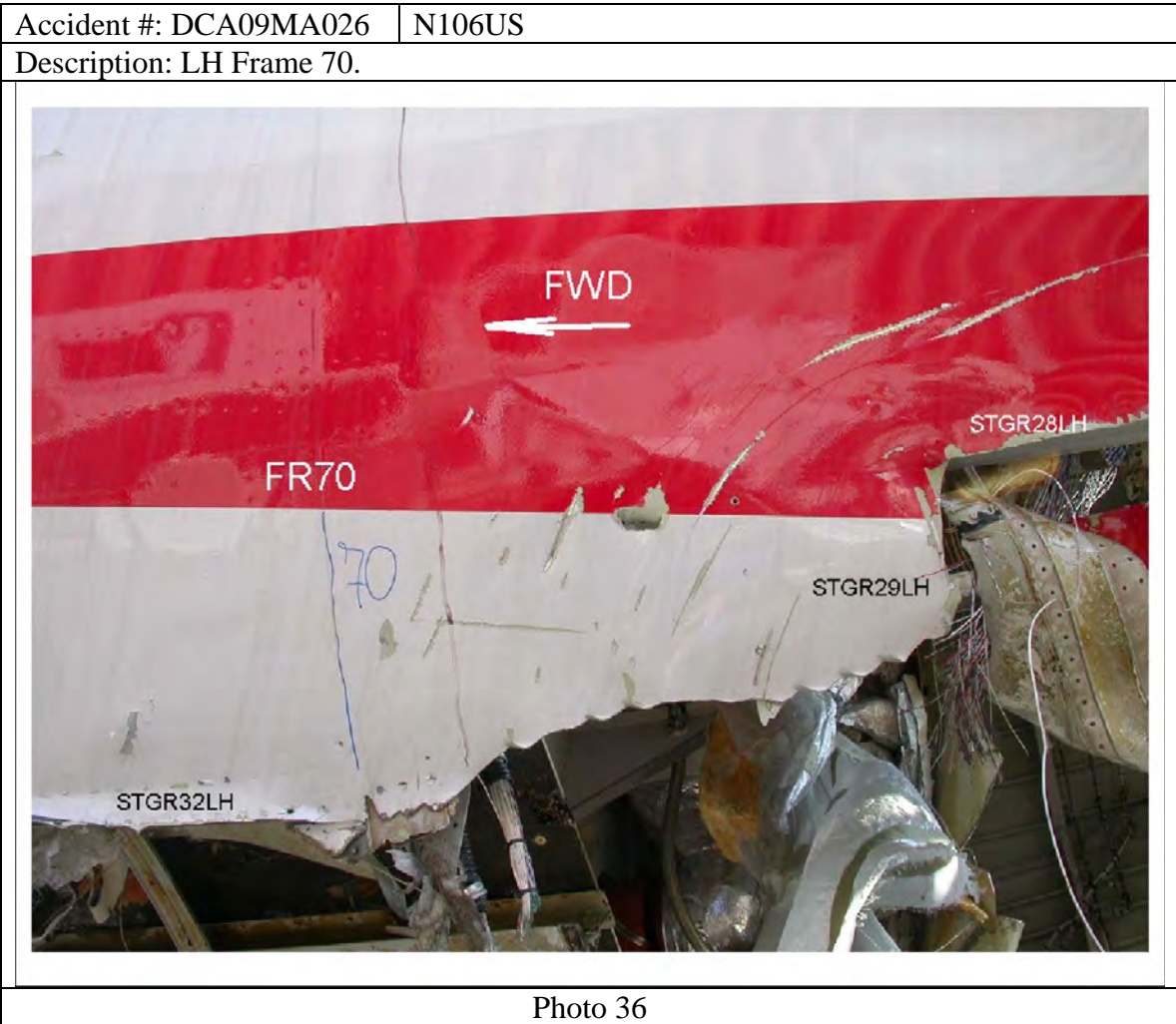
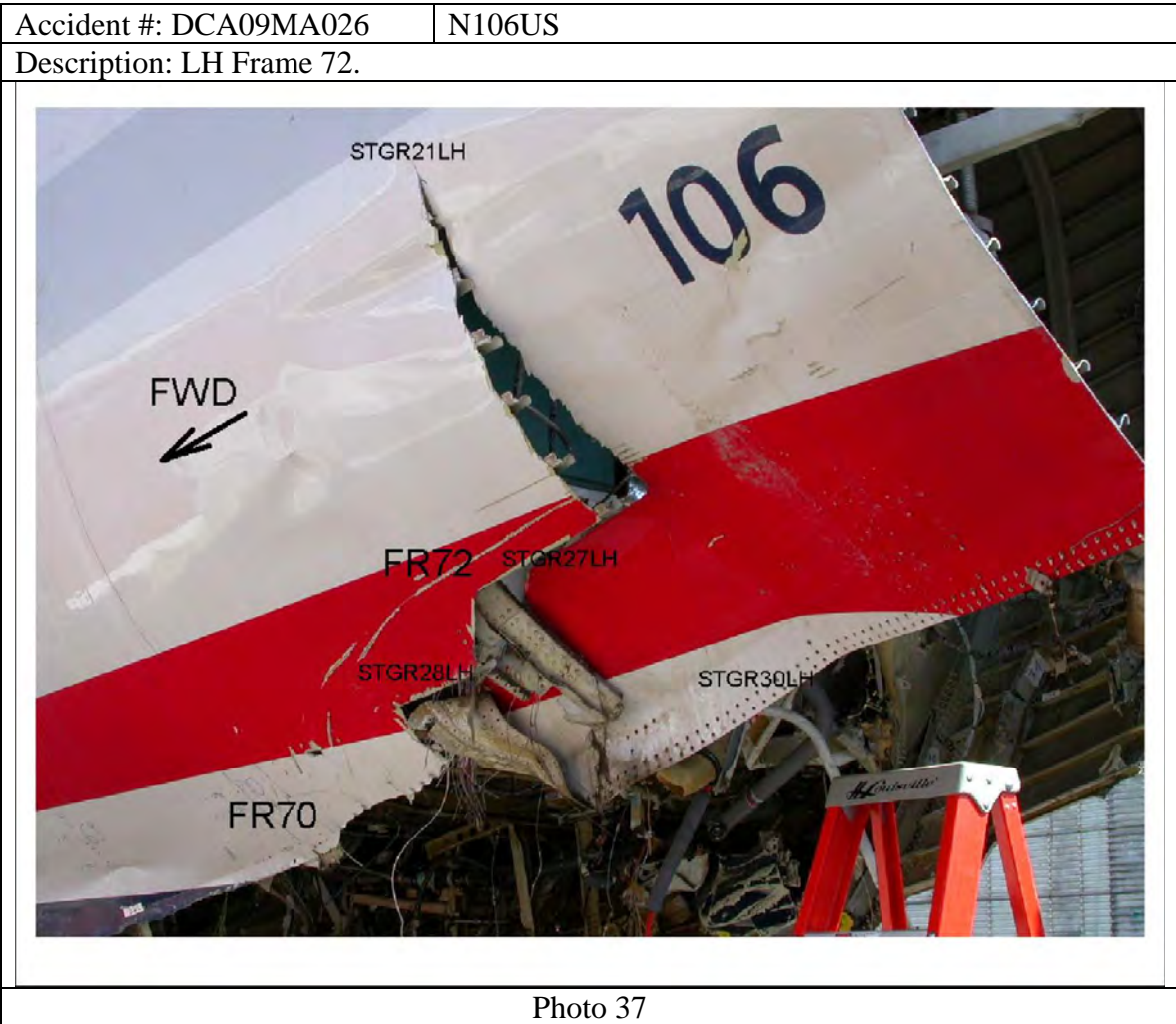
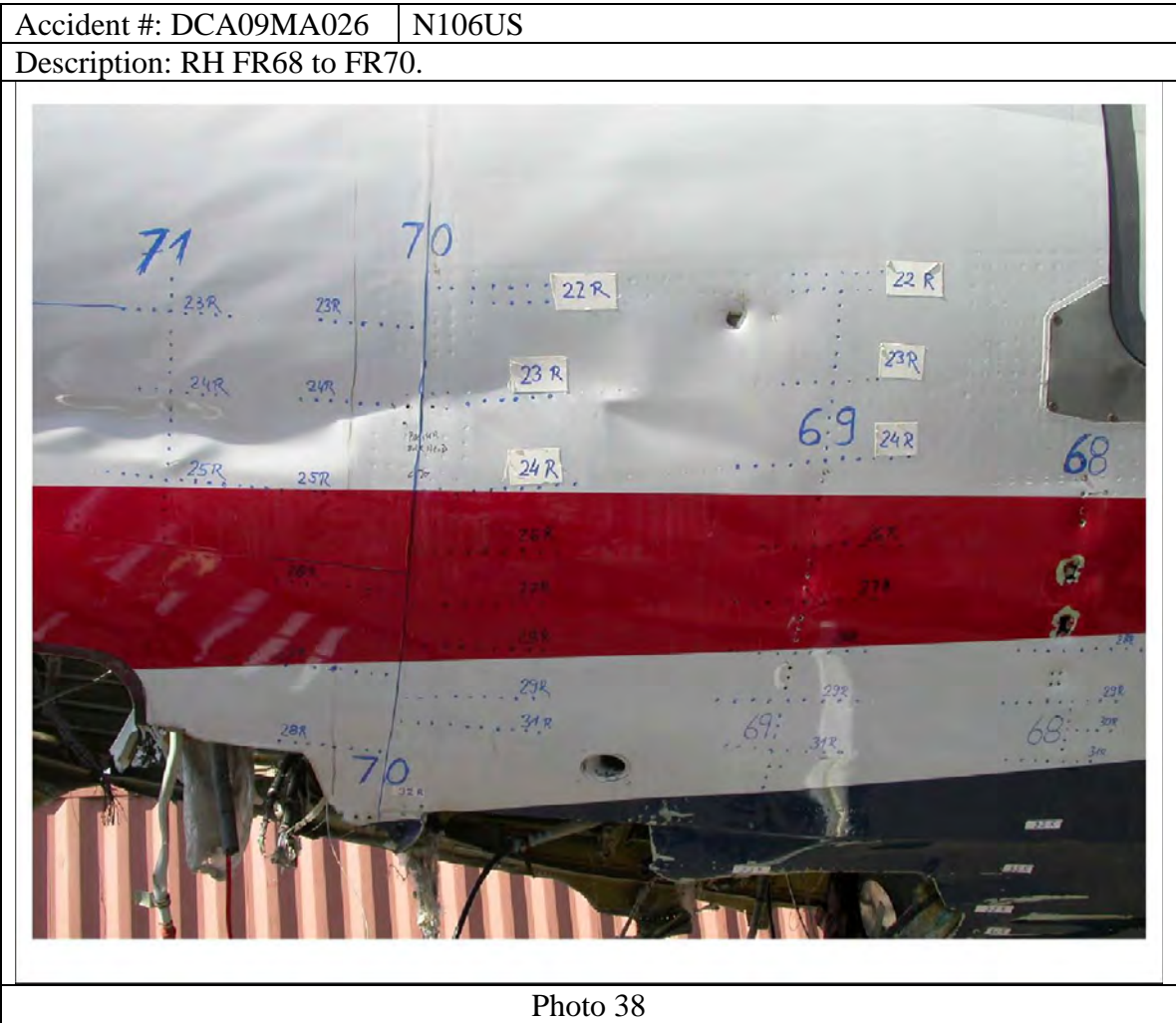


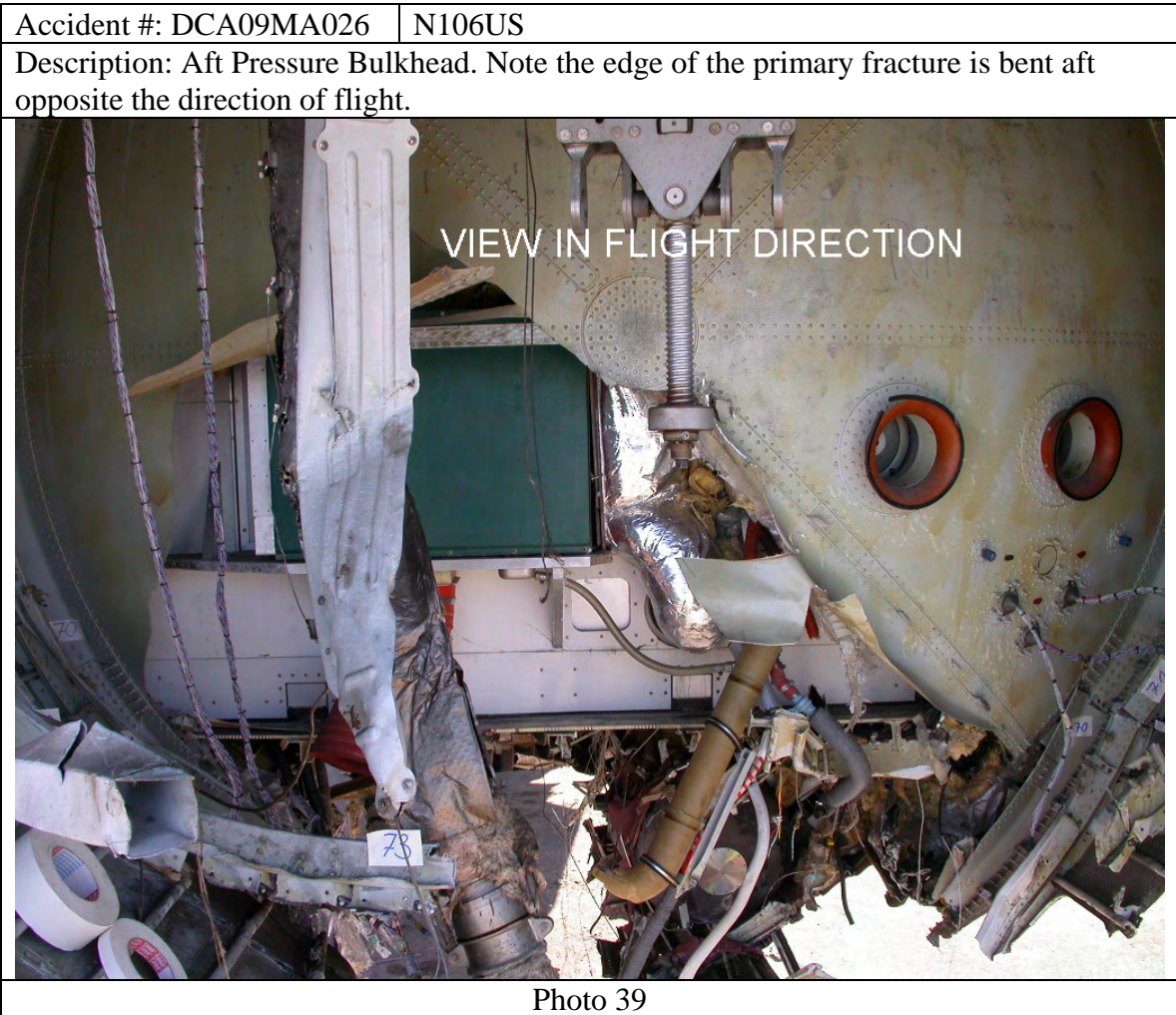
Photo 35









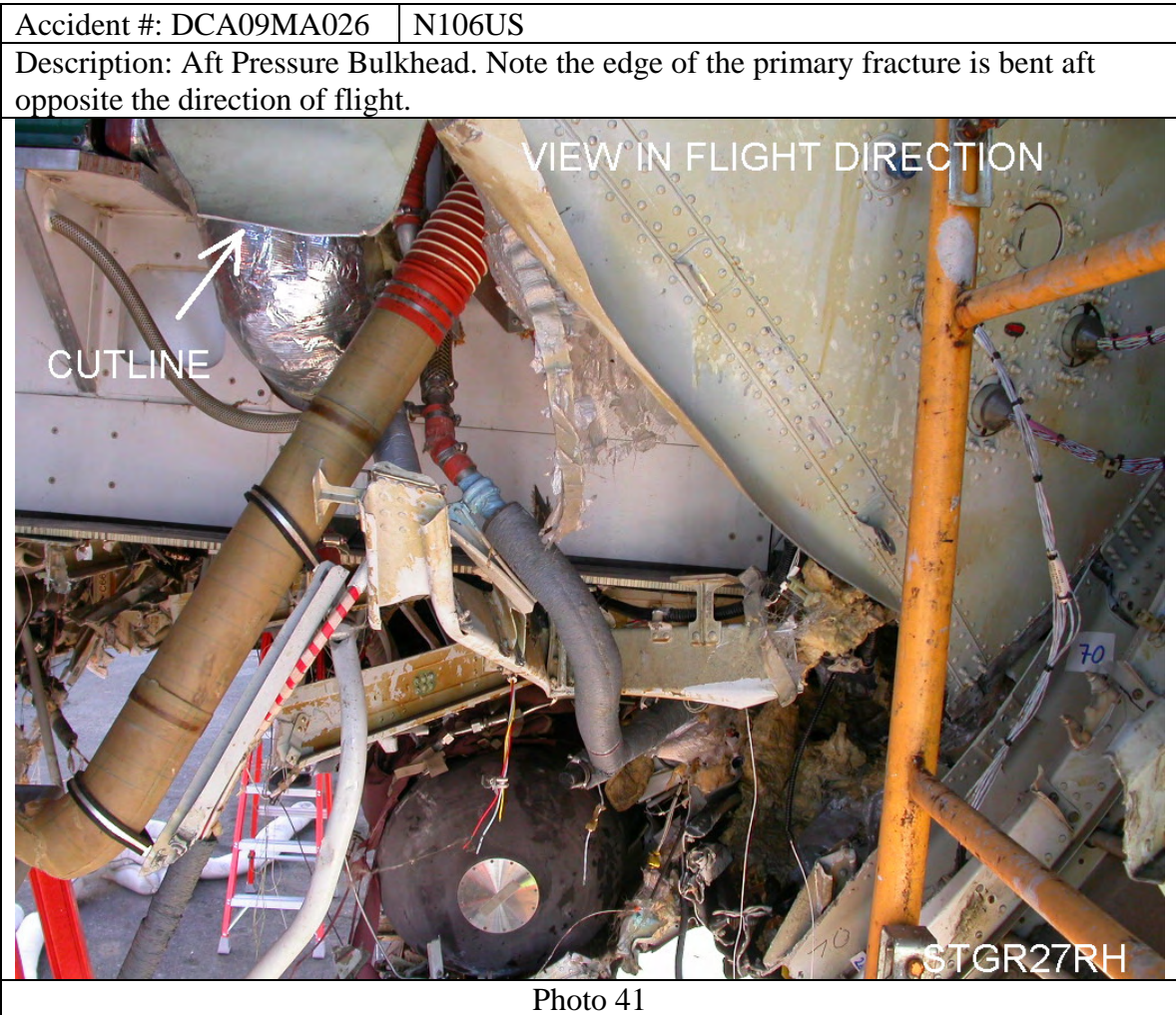


Accident #: DCA09MA026 | N106US

Description: Aft Pressure Bulkhead. Note the edge of the primary fracture is bent aft opposite the direction of flight.

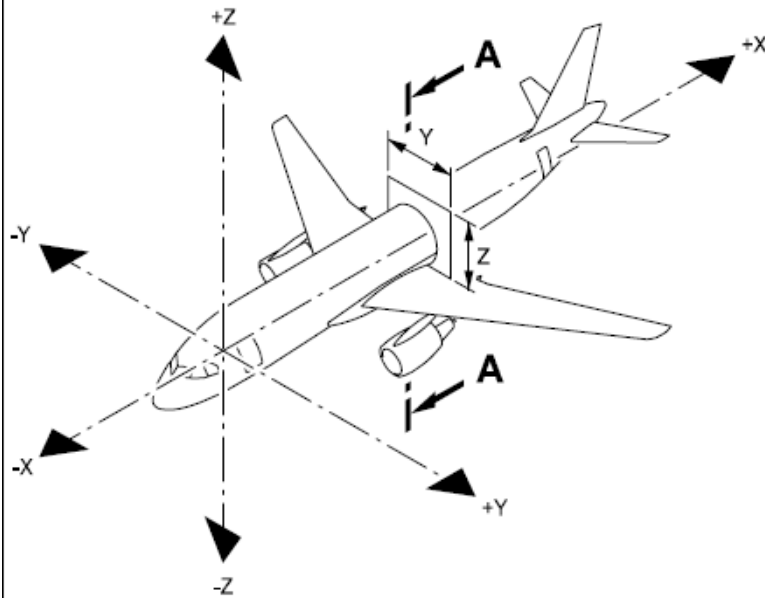


Photo 40



Accident #: DCA09MA026 | N106US

Description: Airplane coordinate system (for use with floor panel damage)..



SECTION  
**A-A**

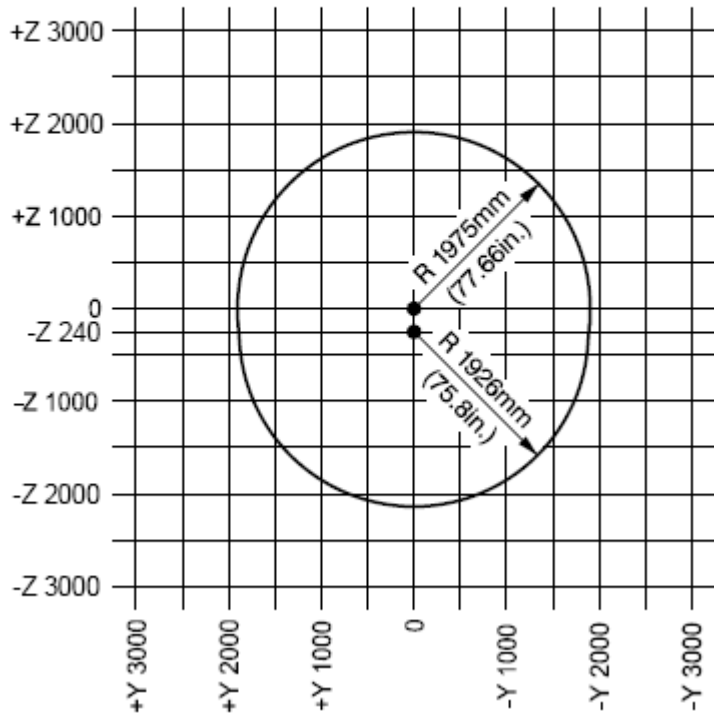
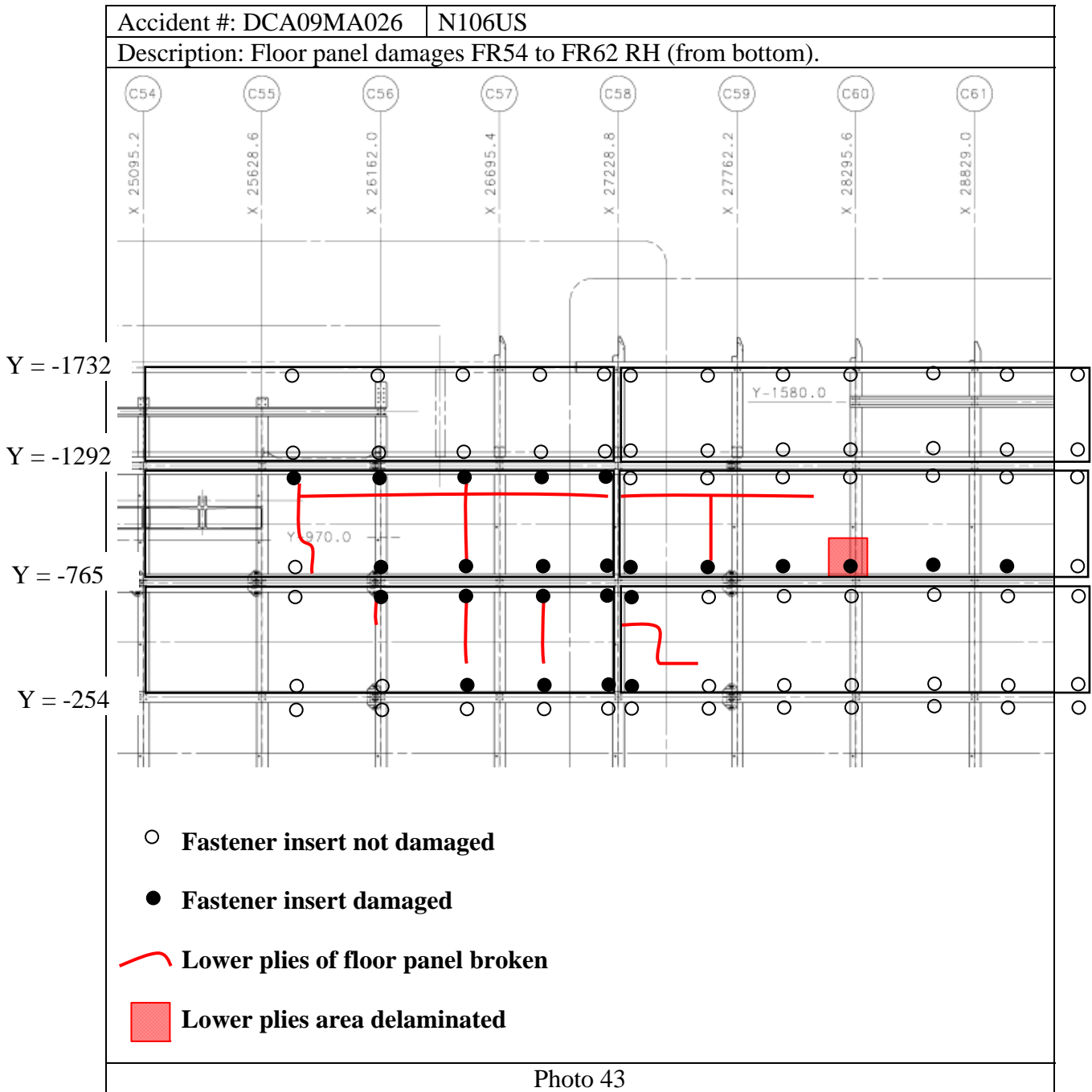
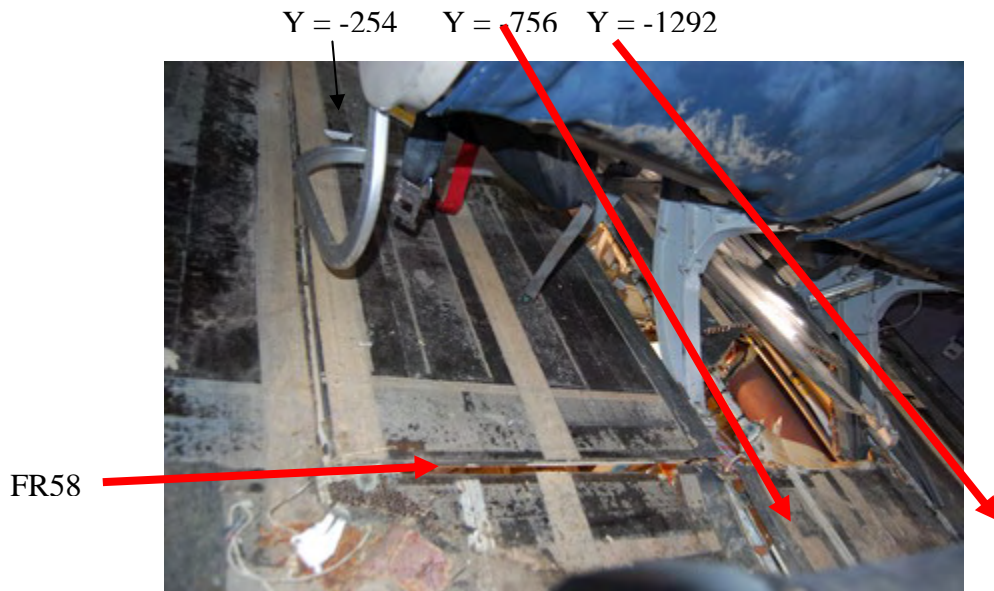


Photo 42



Accident #: DCA09MA026 | N106US

Description: Floor panels FR56  $y = -765$  to  $y = 1292$ .



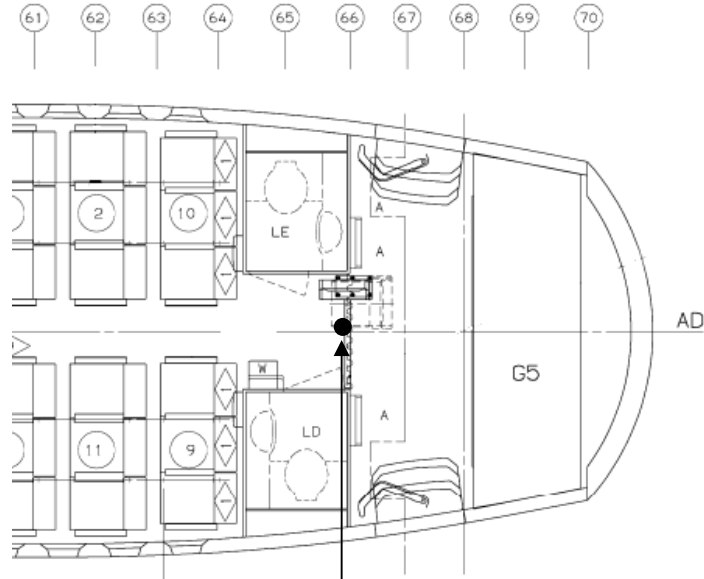
$Y = -1292$   $Y = -765$



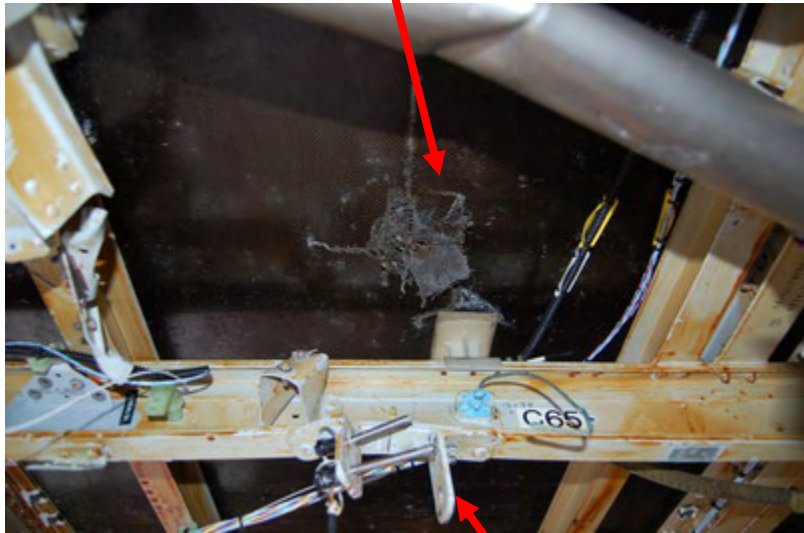
Photo 44

Accident #: DCA09MA026 | N106US

Description: FR65 floor panel perforation.



Floor panel perforation

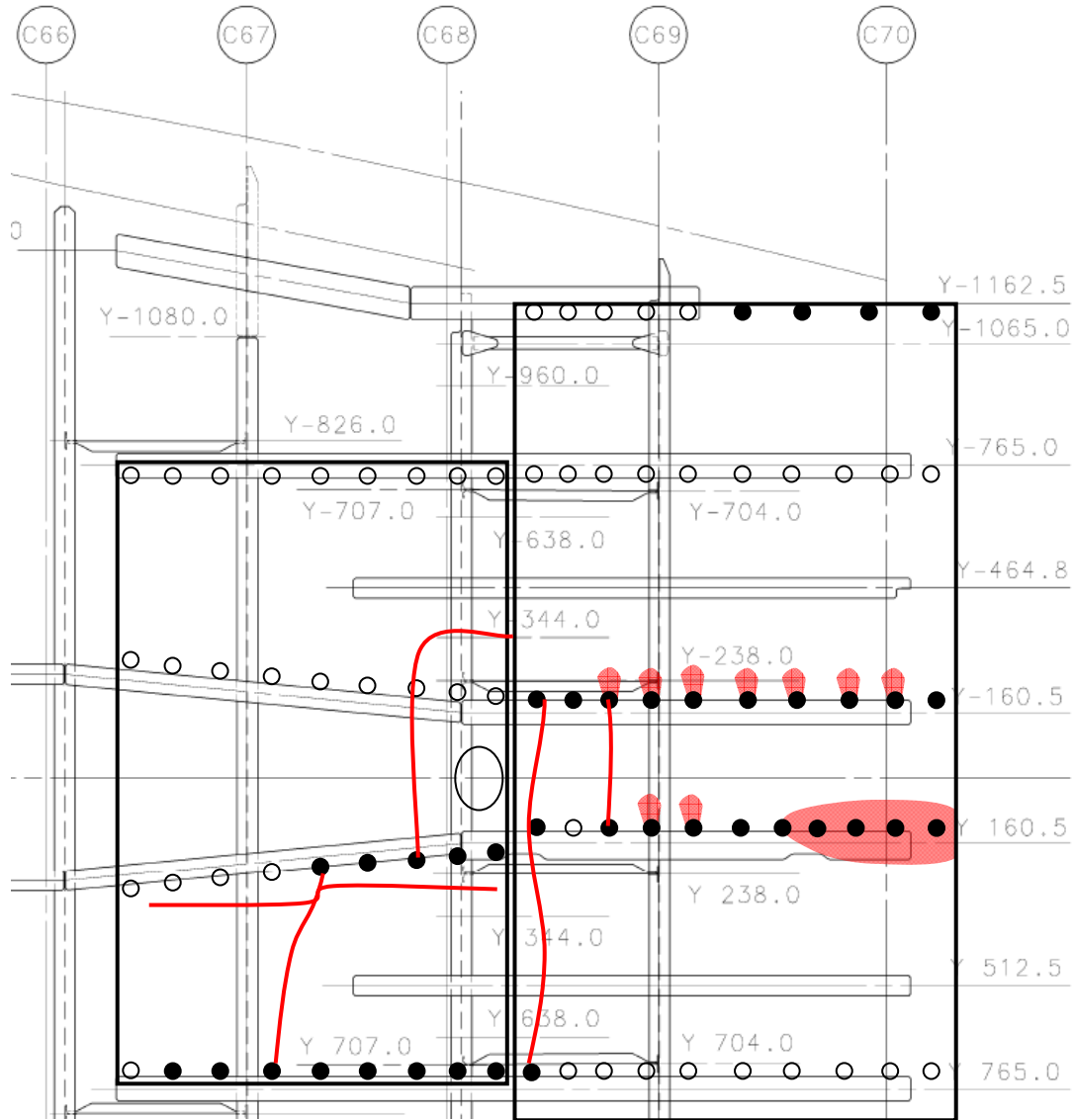


Attachment of vertical beam closing cargo compartment

Photo 45

Accident #: DCA09MA026 | N106US



Description: Floor panel damages FR66 to FR70 (from bottom)



- Fastener insert not damaged
- Fastener insert damaged
- Lower plies of floor panel broken
- Lower plies area delaminated
- Contact point with lower frame part

Photo 46



Accident #: DCA09MA026	N106US
Description: Floor panel damages FR66 to FR68 RH (from top)	
	
	Contact point with lower frame part
Photo 47	

Accident #: DCA09MA026 | N106US

Description: Pylon to wing general view



LH pylon to wing attachment



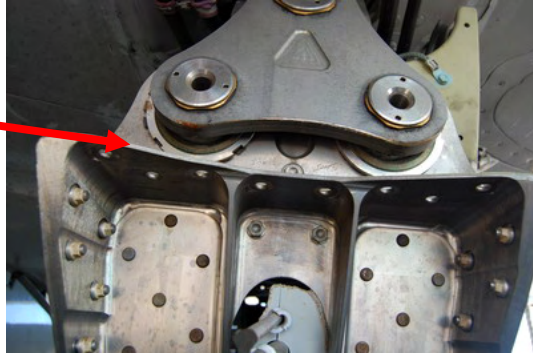
RH pylon attached to wing

Photo 48

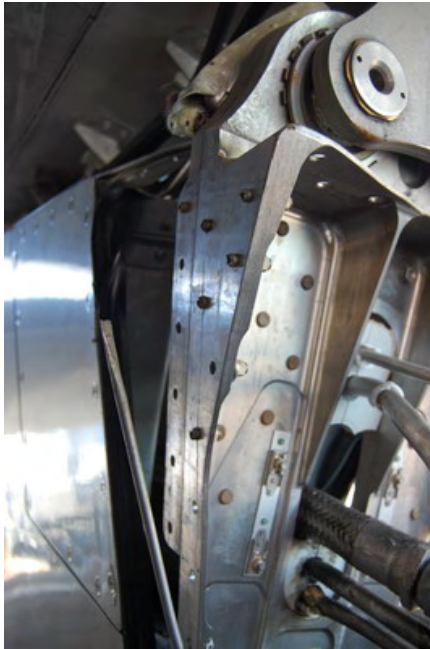
Accident #: DCA09MA026 | N106US

Description: LH pylon to wing attachments

Missing fasteners



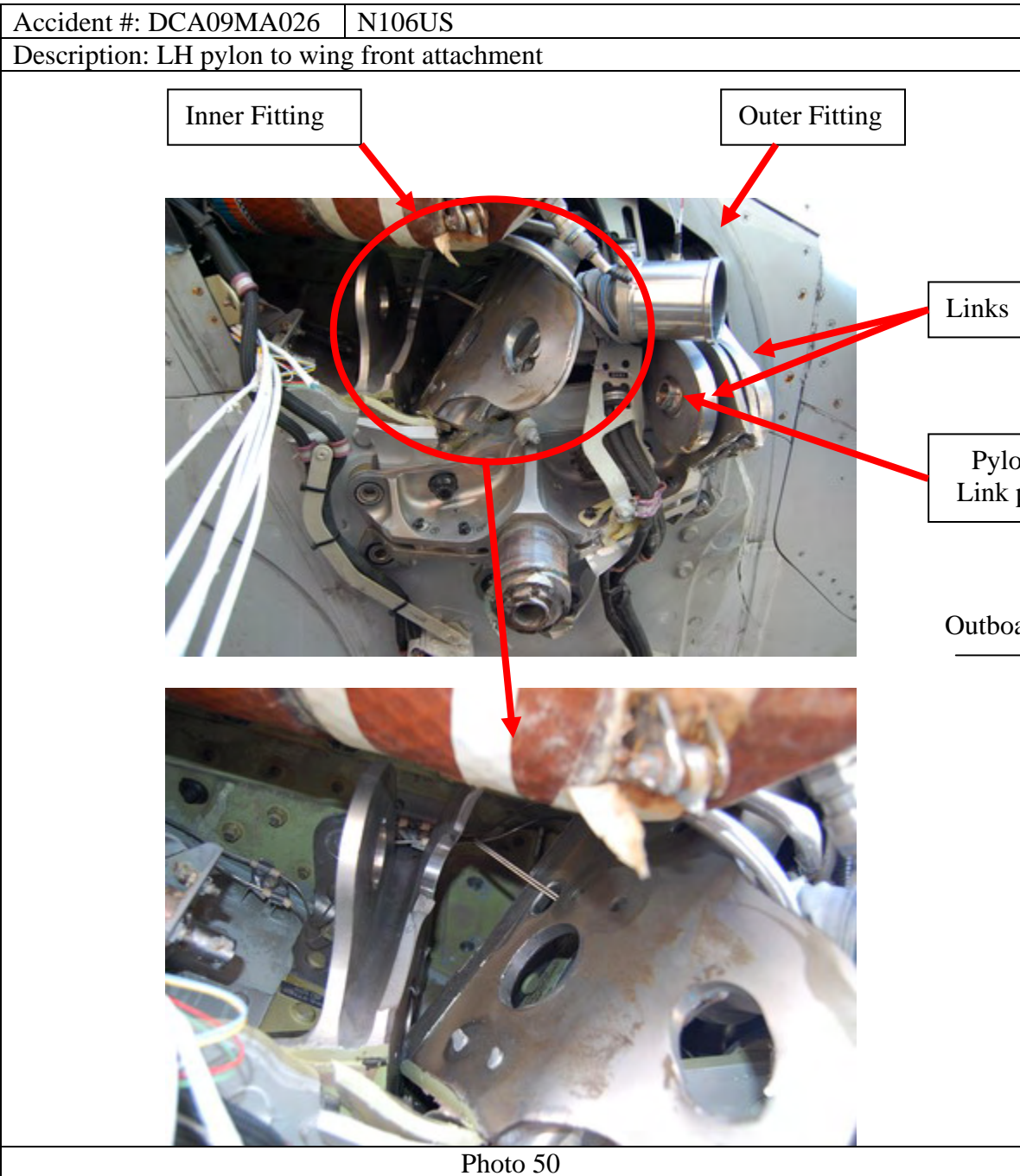
Torn off fastener heads



Portion of lower spar



Photo 49



Accident #: DCA09MA026 | N106US

Description: LH pylon to wing spigot.

Missing fasteners

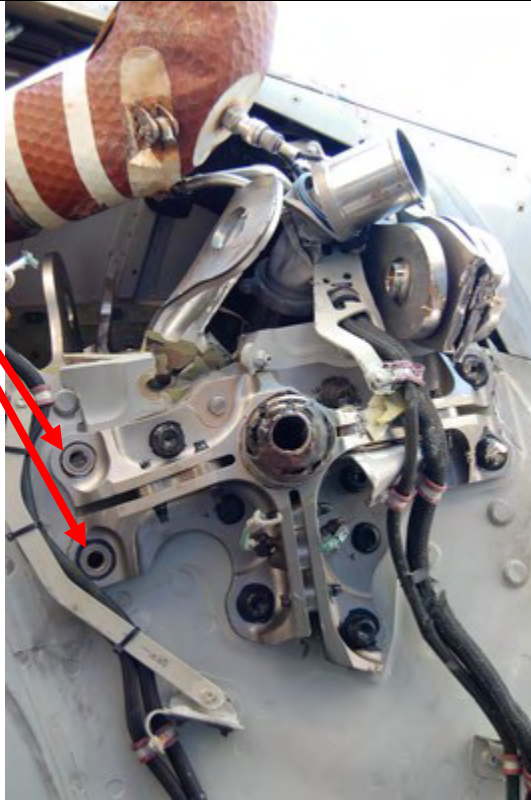


Photo 51

Accident #: DCA09MA026 | N106US

Description: RH engine to pylon attachment



RH view



LH view

Photo 52

Accident #: DCA09MA026 | N106US

Description: RH pylon to wing attachments



Front attachment



Rear attachment (rib10)

Photo 53