Docket No. SA-522

Exhibit No. 7-LL

NATIONAL TRANSPORTATION SAFETY BOARD

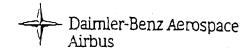
Washington, D.C.

Structures
Various Airbus Communications
Referencing American Airlines
Flight 903

(22 Pages)



Telefax / Telecopy



Fax an/to No.:

Firma/fim:

Name/rame: Mr. C. Curbillon.

Abt./dept.:

Fax von/from No.

Name/name: Quast

Abt./dept: EDA

Tel./phone:

E-Main: 1

Ref./No.: EDA-1436/97

Datum/date: 12.06.97

ec: Mr. A. Blano-Nikolaitchouk,

CHOUK,

Mr. Rasenke, DA BWT

Mr. Dr. Schröder DA EM.

Mr. Th. Celest, AS/A/87E/EG/CA

Mr. G. Squeglia.

DA EOE.

DA EDC

Subject:

A300-600 R AAL turbulance

Ref.: 443.0128/97

In the shortness of time DA ED-Loads gives a general order from Loads point of view (tateral motion). Due to your information of time histories DA Loads urgantly recommends an inspection of this A/C (MSN 513). Following A/C components have to be inspected due to the promised relevant exceedance of Design Limit Loads A3GO-60DR.

inspection of A/C components:

- Complete Vertical Tail
- Rudder and Rudger attachments
- Vertical Tail Attachments
- Rear Fuselage incl. C91
- Horizontal Tailplane Attachments.

AI/EE-L Incoming mall mall 12 JUIN 1997

Note: To give a complete statement additional information is needed;

Time nistory of roll rate, yaw angle B

Yaw,- pitch rate p, omega x-

Spoiler deflections

We are also missing the weight/mass of A/C.

Please send these data via AS/DA FLT-Emergency line.

Seite/page 1 von/of 1

Darmier-Benz Aerospace Airbus GmbH Fostlach 95 01 09



AIRBUS INDUSTRIE



Airbus Electronic Mail System Arnaud BLANC-NIKOLAITCHOUK

Plagnac, 13-Jun-1997 09:38 TLS

Ref: 443.0135/97

AI/EE-L Ext: 🖣

Jean DANEY Yannick MALINGE TO:

AI/E-FS (DANEY)

AI/E-FS

(MALINGE)

CC: Michel CURBILLON

AI/EE-L

(CURBILLON)

Subject: AAL A300-600R turbulence : load investigation.

Attached: DA fax EDA-1436/97.

Please find hereafter a preliminary assessment from DA loads, responsible for lateral loads. They have clear concerns on the overall rear part of the aircraft which could have encountered loads higher than the design limit loads. DA request urgent inspection of the aircraft to be performed.

Additional investigation is currently under process within each partner company.

Best regards.

Arnaud Blanc-Nikolaïtchouk



AEROSPATIALE TOULOUSE

Airbus Electronic Mail System

BERNARD HECIAK

Ext:

St Martin, 19-Jun-1997 06:13pm TLS

Rcf: NONE

TO: AI: DANEY Jean

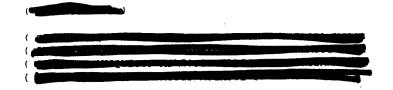
GENNARO SQUEGLIA

CC: GENEVIEVE CAZET SUPERVIELLE

CC: GEORGES MOUSQUET

CC: BERNARD BISSEY

Subject: A300-600R MSN 513



1/ Considering the high load factors encountered by A/C MEN 513, the procedure as described by AMM chapter 05.51.17 should have been followed and corrective actions taken in case of findings.

i reporting to AIB would also be of great interest.

3/ Meanwhile, the DFDR was given to AIB for analysis and the study confirms high load factors both for longitudinal and lateral aspects. Although these actual load factors are lower than previously announced, it appears that for some areas of the airplane limit design loads have been exceeded and for some others such as rear fuselage, fin and empennage the ultimate design loads could have been reached.

In such conditions, it is necessary to require a closer inspection of the A/C. This inspection has to be done as early as possible.

Regards.

B. HECIAK

AIRBUS INDUSTRIE

Airbus Electronic Mail System AAL TUL

15-May-1997 09:56pm TLS

Ref : NONE

Airbus Industrie

Ext:

TO: See Below

Subject: A300-600 MSN 513 TURBULENCE ENCOUNTER

AIRBUS TXT

Y/Ref:

O/Ref: AAL/TUL/000383/97

Date: 1997/05/15

Reply Requested: NR

Subject

: A300-600 MSN 513 TURBULENCE ENCOUNTER

FROM: MR. I. BULLAMORE - ACS-R/AAL/TUL

MR. Y. BENOIST

- AI/E-FS

GENTLEMEN,

AAL FLIGHT SAFETY HAS INFORMED ME THAT THEY WILL NOT GIVE ME THE DFDR FROM THE SUBJECT INCIDENT. FURTHER, AAL FLIGHT SAFETY INFORMED ME THAT THEY WILL PROBABLY NEVER AGAIN RELEASE THE DFDR TO AIRBUS.

THE REASON IS...APPARENTLY AIRBUS AND AAL ARE INVOLVED IN A LAW SUIT OVER AP REVIOUS TURBULENCE INCIDENT. APPARENTLY THE AIRBUS LAWYERS ARE USING THE DATA FROM THE DFDR FROM THE PREVIOUS INCIDENT AGAINST AAL. THEREFORE, AAL WILL NOT SUBJECT THEM SELVES TO POSSIBLE INCRIMINATION AGAIN.

ALSO, THIS PUTS ME IN A VERY DELICATE SITUATION. EVERY TIME AAL GIVES ME A DFDR I SIGN A NON-DISCLOSURE AGREEMENT. THIS AGREEMENT HAS SEVERAL PARA'S, ONE OF WHICH SPECIFICLY STATES THAT I (AIRBUS) WILL NOT USE THE INFORMATION "FOR DISCLOSEE'S OWN BENEFIT OR OTHERWISE EXPLOIT THE DFDR INFORMATION". I HAVE A COPY OF A BLANK DISCLOSURE AGREEMENT FOR ANY OF YOU WHO MIGHT WANT TO SEE IT.

FURTHER, AT THIS TIME, NO ONE WITHIN AAL WILL EVEN DISCUSS THE INCIDENT WITH ME. AAL FLIGHT SAFETY WILL NOT EVEN RETURN MY CALLS REGARDING THE INCIDENT.

I SUGGEST THAT AIRBUS PLIGHT SAFETY DISCUSS THIS SITUATION DIRECTLY WITH AAL FLIGHT SAFETY.

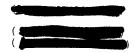
NR BRGDS, IKE BULLAMORE AAL/TUL

Distribution:

TO: BENOIST Yves, AI/E-FS

CC: BRACKEN Ernie, ACS-C2

CC: DERISSON Jean-michel, AI/SE-A12



GILLET Jean-Pierre, AI/SE-E4
LECOMTE Roger, AI/SE
MALINGE Yannick, AI/E-FS
RECEPTION Ais, AI/SG-R
VAN DER HEYDEN Thierry, ACS





NR. 610

001

13 JUN 1997 17:30 From Airbus Industrie

To 00049407437633>

P1

TELEFAX

AIRBUS INDUSTRIE



FROM : AIRBUS INDUSTRIE DERISSON Jean-Miche 13-Jun-1997 05:40pm

1 Rond Point Maurice Bellonte F 31707 Blagnac Cedex France

DEPT : AI/SE-A12

TELEX: 530526F AIRBU * 2116

SITA : TLSBU7X

PHDNE: (33)(0)

OUR REF : NONE

YOUR REF:

SUBJ : A300-600 MSN513/AAL ACTIONS FURTHER TO TURBULENCES

CC : DASA/HAM

(FAX

As you may already be aware, subject A/C suffered heavy turbulences during approach on May the 12th.

After long dicussion and arguments with AAL, a workable DFDR read out related to this incident was finally given to AIB.

DFDR data were forwarded on June the 9th as follows:

in AS to Marie Pierre JOLY A/BTE/EG/CA

in BAe to Duncan PATTRICK 863

IN DASA/HAM to Dieter QUAST EDA (70

(Tax.

We have contacted again AAL to request feed back about the inspections they performed and the related findings if any. We nevertheless assume that they carried out the AMM 05 51 17 inspections required after excessive turbulence.

Considering all the above, can you please confirm on Monday June the 16th:

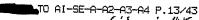
- 1/ If there is a need for inspections to be performed in addition to AMM 05 51 17.
- 2/ If additional inspections are required, can they be postponed at a later maintenance opportunity or are they required urgently.

In case additional inspections are confirmed to be necessary, definition of the inspection tasks will of course be required. The urgency will depend on how soon the inspections have to be carried out.

Should you require any additional info on this subject, please do not hesitate to contact us.

best regards, Jean Michel DERISSON H. Boden BWT

ALL: #. Amost, EMA #. Thurwagel, EDC FEB 22 2002 09:33 FR AIRBUS SERVICE CD



Customer Support Services Division

AIRBUS INDUSTRIE

Date:

18/06/97

Reference: 952.3453/97

From:

Olivier ILLES

To: Ger Ce: ARCS:AALTUL

Marilou EVRAND Ernie BRACKEN

AI/SE-E4

ACS-C2

Subject:

A300-600 MSN 513 TURBULENCE ENCOUNTER

Ike,

Please find hereunder the report of the incident of MSN 513. Please distribute it to all people interested in AAL.

Ölivier.

Attached file(s):

D:\AIRBU\$\ARC\$\db\attachs\-map0523.txt D:\AIRBUS\ARCS\db\attachs\-map0534.zip



Page 1



YOUR REF 1: AAL/TUL/000370/97 YOUR REF 2: AAL/TUL/000386/97 YOUR REF 3: AAL/TUL/000412/97 YOUR REF 4: AAL/TUL/000424/97 OUR PREV REF 1: 952.2915/97 OUR PREV REF 2: 952.2933/97 OUR PREV REF 3: 952.3315/97

Please find hereunder the sequence of events issued from DFDR data extracted from the tape decoded on 5 June. These new data are far less garbled than the previous ones on diskette.

NOTA: The following factual statements have been made based on available data only. Any of these statements could be modified, should new information be available.

For a better understanding, please refer to the attached compressed file AAL513.ZIP containing the WORD file AAL513.DOC, including:

- Figure 1: List and characteristics of the longitudinal parameters. The vertical acceleration is expressed in g number, positive when A/C is accelerating upwards.
- Figure 2: List and characteristics of the lateral parameters. The lateral acceleration is expressed in g number, positive when A/C is accelerating on the left.

- Figure 3: DFDR curves of longitudinal parameters evolution.

Figure 4: DFDR curves of lateral parameters evolution.
 The complete batch of curves is also sent by normal mail.

The following expressions are used in this report:

- ANU: A/C Nose Up
- AND: A/C Nose Down
- RWD: Right Wing Down
- LWD: Left Wing Down

From the available data, the following can be stated:

A- Sequence of events

ì- GMT 19.27.00:

A/C is descending towards FL 160 with an airspeed of 250 kts and a heading 220. A/P I is engaged. The throttles are on idle thrust position (TRA 37.5 deg which corresponds to TLA 0).

The A/THR is not engaged. This is evidenced by the following

- With A/THR engaged, the speed would have never dropped (see after) below selected 210 kt speed (according to crew report).
- Even in case of wrong speed input by the crew, the speed is anyway limited by the ATS to VLS (in that case about 193 kts), which is not the case in the following of this report.
- When the A/THR is engaged, it cannot lead the throttles to go below 5 degrees TLA (42 degrees TRA) or above 48.3

degrees TLA (79.5 degrees TRA) whereas during the event they actually reach 37.5 degrees TRA and 84 degrees TRA.

2- GMT 19.27.00 to 19.28.20:

Airspeed is decreasing and passes 215 kts. A/C stabilizes at FL 160. Heading is increasing and stabilizes at 230.

3- GMT 19.28.20 to 19.28.52;

Airspeed is going on dropping down to 180 kts (VLS estimated to 193 kts at that time). Heading changes to 240 and begins to increase towards 270.

4- GMT 19.28.52 to 19.29.01:

A/C roll attitude begins to increase (R/H turn). Pitch attitude and AOA are 4.5 degrees ANU and begin to increase. RWD (R/H) roll is commanded by the ailerons during this period.

5-GMT 19.29.01:

The AOA is at 6.5 deg ANU, the roll angle at 17 deg RWD and the ailerons begin to go LWD (the A/P tries to limit the roll angle). Airspeed is at 179 kts.

6-GMT 19.29.01 to 19.29.06:

A/P 1 is still engaged. Vertical G-load is increasing to +1.2 g, Pitch and AOA to 8 degrees ANU and roll to 35 degrees RWD. Airspeed hits a low at 177 kts. Heading is 270 at that time. RWD (R/H) roll excursion is counteracted by the ailerons during this period, up to their stop (19 deg down reached on R/H aileron).

During periods 4-, 5- and 6-, full power is applied to the engines in two phases:

- From GMT 19.28.58 to 19.29.02: From idle to climb power at about 10 deg/sec TLA.
- From GMT 19.29.05 to 19.29.06: From climb to full power rapidly.

Therefore the throttle increase from idle to full power is most probably manual.

7-GMT 19.29.06:

Stall warning is activated. AOA at this time is 10 degrees ANU going on increasing; pitch is 10.5 degrees ANU going on increasing; roll is 45 degrees RWD going on increasing. A/P 1 disconnects. Ailerons are full left turn deflected. Vertical G-load begins to decrease. Rudder is deflected on the left (above 20 degrees).

Stall warning has been triggered in the FWC because AOA overshot the 8.5 degree ANU threshold in clean configuration.

Concerning the A/P disconnection, the BITE records all non

voluntary disconnections, including a force higher than 15 dan. Only the voluntary disconnections through the lever or the instinctive disconnect switches are not recorded. During the incident flight, the BITE did not record any abnormal A/P disconnection. Therefore we can conclude that the A/P I most probably disconnected by action on the instinctive disconnect switch.

8-GMT 19.29.06 to 19.29.08:

. Pitch angle reaches: 16 degrees ANU, . True AOA: 13.5 degrees ANU, . Roll angle reaches: 55 degrees RWD, . Vertical G-load reaches: +0.6 g,

. Lateral acceleration reaches : +0.41 g.

9- GMT 19.29.08 to 19.29.13:

Under the combined effect of the full left turn aileron deflection and the more than 20 degree left rudder deflection, the roll attitude quickly reverses to the LWD direction. The roll rate is estimated having reached 30 deg/sec (assessment made on the roll angle value).

. Pitch angle reaches: 9.2 degrees AND, . True AOA: 2.5 degrees ANU, . Roll angle reaches: 43 degrees LWD, . Vertical G-load reaches: +1.83 g, . Lateral acceleration reaches: -0.47 g.

Speed begins to increase.

10-GMT 19.29.13 to 19.29.18:

Same phenomenon as in 9- is highlighted but the evolution in roll is reversed on the RWD side. Roll rate reaches 50 deg/sec. Stall warning is activated.

Pitch angle reaches: 14 degrees ANU,
True AOA: 18.2 degrees ANU,
Roll angle reaches: 64.5 degrees RWD,
Vertical G-load reaches: -0.22 g,
Lateral acceleration reaches: +0.54 g.

11-GMT 19.29.18 to 19.29.40

The severe and oscillating excursions in roll, pitch and accelerations (vertical and lateral) are repeated under the same scenario: the ailerons are alternately deflected on the full left and right stop, associated to alternative actions on the rudder pedals and the elevators. Stall warning is activated two more times.

. Roll rates values reached are: 30 deg/sec LWD, 55 deg/sec RWD, 30 deg/sec LWD.
. Pitch angle reaches, successively: 22 deg ANU, 0 deg, 22.8 deg AND, 7 deg ANU.
. True AOA reaches, successively: 3 deg AND, 14 deg ANU, 4.5 deg AND, 15.2 deg ANU.

. Roll angle reaches, successively: 25 deg LWD, unknown (loss of signal), 70 deg LWD, 54 deg RWD, 50 deg LWD. Vertical G-load reaches, successively: +2.25 g, -0.17 g, +2.61 g, -0.45 g, +2.84 g.

Lateral acceleration reaches, successively: -0.66 g, unknown (loss of signal), -0.74 g, +0.54 g, -0.54 g.

During this lapse of time, the altitude looses 3050 ft. Airspeed has increased up to 270 kts.

12-GMT 19.29.40 to 19.30.25

During this phase, the A/C gains altitude from 13100 ft at an initial airspeed of 270 kts to 17900 ft where the airspeed bottoms out at 171 kts.

B- Summary

While flying at FL 160, turning right to heading 270, the airspeed dropped 16 kts below VLS, which, combined with the turbulence, led the A/C to over-roll on the R/H side, despite the counteraction of the afterons. Full power was applied on the engines at that time.

The combination of the low speed and the turbulence at that time led the AOA to increase and the stall warning to be activated.

The first reaction of the crew seeing the A/C rolling to the R/H side with full yoke deflection on the left was to apply left rudder pedal order.

The A/C then experienced severe excursions in roil and pitch during the following 35 seconds with three activations of the stall warning, the manual control of the A/C during this period was performed by successive and alternate deflections of the rudder, the ailerons (to the stop) and the elevators. The A/C lost approximately 3000 ft during this period before overshooting the FL 160 by around 1800 feet and loosing speed again.

There was no evidence of aircraft or systems malfunction during the whole event.

Best regards Olivier ILLES Flight Guidance Systems Group Manager

· FYGURE X-1 : GENTHALE CROISIEME (LONGI) - (Not, GE on CFR) ·

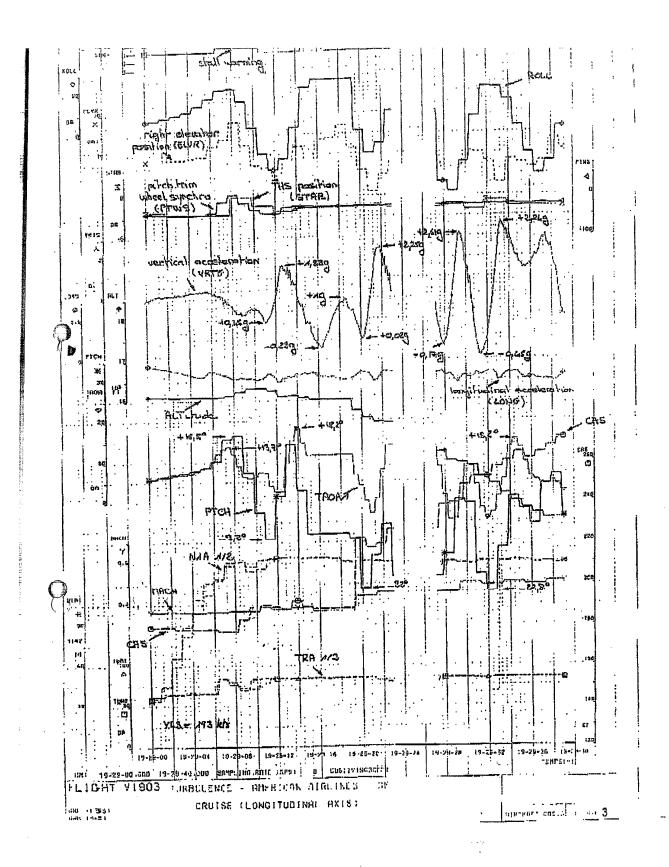
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GROSS WEIGHT STAR.		· = 4 = 2 = 4 & 2 = 7 = 4 = 4 = 4 = 4 = 4 = 4 = 4 = 4 = 4	+		•			

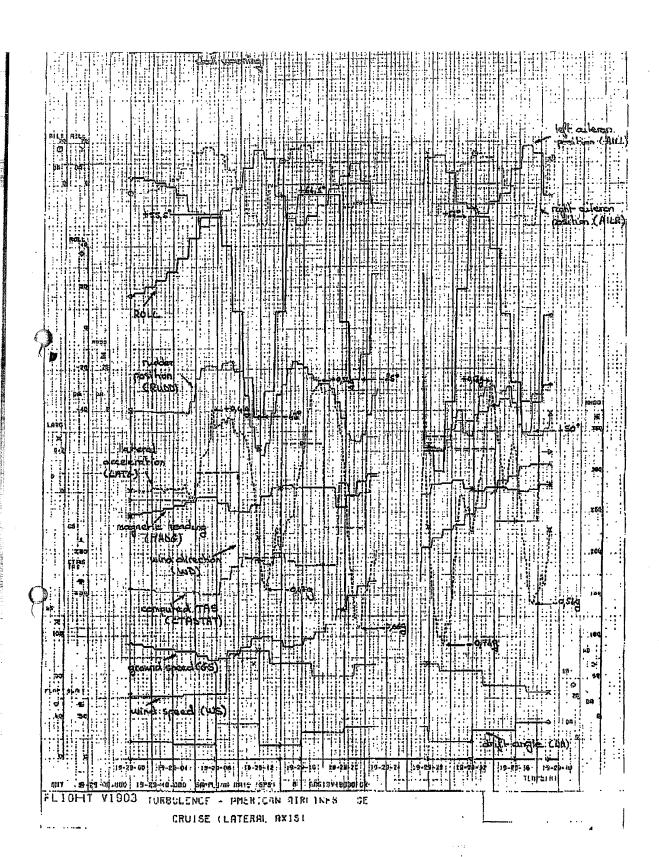
FIGURE 1

- FIGURE X-2 : GENERALE CROISIERE (LATERAL) -

MNEMONIC	DEFINITION (FRAME : 4 s.)	UNIT	SIGN CONVENTION	SPŚ.	resol.	SOURCE(S)	LABEL/BIT	WORD
MHRG WS HD DA HOLL STALL LATG RUDD AILL AILR FLAP SLAT GS CTASTAT GS AP1E AP2E	MAGNETIC HEADING MIND SPEED MIND DIRECTION DRIFT ANGLE ROLL ANGLE STALL WARNING HODY LATERAL ACCELERATION RUDGER POSITION ALL SPEED ALLERON IN FLAPS POSITION SLATS POSITION GROUND SPEED CALCULATED TRUE ALRESPEED CHECKLE OF GRAVITY CITT CHE HODE A/P.1 CHE HODE A/P.2	(DA) (EXT) (DA) (DA) (DA) (DA) (DA) (DA) (DA) (DA	>0= RH NING DOWN 1= STALL >0= TURN LEFT >0= TURN LEFT 1= CHD MODE 1= CHD MODE	1 1/4 1/4 1/4 1 1 1 1 1 1 1 1 1 1 1 1 1	0.352 0.062 0.088 0.088 0.352 1.000 0.000 0.353 0.351 0.005 1.000 0.005 1.000			3 58 58 58 17 10 15 15 15 15 15 15 15

FIGURE 2





AIRBUS INDUSTRIE



Airbus Electronic Mail System

Blagnac, 18-Jun-1997 11:49am TLS Ref: 942.6185/97

Pierre CAMBON

AI/SE-A11 Ext:

TO: See Below

Subject: A300-600, AAL, MSN0513, N90070 ACTIONS FURTHER TO TURBULENCES

Customer Services Directorate

Blagnac, 18-Jun-1997 Ref: 942.6185/97

Pierre CAMBON AI/SE-A11

Ext: (33) (0)

TO: SEE DIST. LIST

Subject : A300-600, AAL, MSN0513, N90070 ACTIONS FURTHER TO

TURBULENCES

Our previous ref: 942.6168/97

Please find hereafter feed back we received from AAL. As you can see, AAL will not provide us with the list of findings from the inspections performed!

Quote:

YES, AAL PERFORMED AMM 05.51.17 PLUS 05.51.27 PYLON SIDE LOAD INSPECTION.
BOTH WERE DONE IN MIA AFTER THE INCIDENT. THE AAL STRUCTURAL ENGINEER "WILL NOT" - REPEAT "WILL NOT" GIVE ME THE LIST OF FINDINGS FROM THE INSPECTIONS.
HE SAID SOME FASTENERS IN THE WING WERE SHEARED BUT WILL NOT GIVE ME DETAILS.
NOTE, THERE WERE NO FUEL LEAKS.

Unquote

Could you please coordinate all necessary actions with loads/stress/others department involved, in order to provide AAL with list of inspection tasks and when these tasks will have to be performed. (Refer to our previous mail 942.6023/97 DATED 13/06/97)

Ugent reply requested before 3.00PM today.

REGARDS,

Pierre CAMBON MIRG COORDINATOR AI/SE-A11





AIRBUS INDUSTRIE



Airbus Electronic Mail System Thomas GROTZKY AI/SE-A1

Blagnac, 19-Jun-1997 08:29pm TLS Ref: 942.6272/97

Ext:

.....

TO: See Below

Subject: A300-600, MSN513, AAL, FLIGHT IN TURBULENCE

Dear Mr.Zepf,

with reference to our telephone conversation concerning the flight through turbulence of MSN513 please note as follows.

Further to the analysis of the DFDR readings, Airbus Industrie confirms that some areas of the aircraft have sustained very high loads, in particular in the aft part of the aircraft. These loads require the aircraft to be deeply inspected after the event.

However, we are aware that some inspections as per the applicable AMM chapter 05 have been performed. We kindly ask you to send to Airbus Industrie urgently the details of the inspections performed and the associated findings. This will allow Airbus Industrie to determine additional requirements, if any. Top priority should be given to data on the rear part of the aircraft.

Best regards,

Thomas Grotzky for J.M.Gaillardon Director Structure Engineering

Distribution:

	TO:	MR.A.W.ZEPF Mgr.Airframe, ARCS:AALTUL	Systems	(FAX_000	
)
محسينا	CC:	Jean-Michel GAILLARDON	AI/SE-A	(GAILLARDON)	
	CC:	Roger LECOMTE	AI/SE	i	LECOMTE)	
	CC:	Yves BENOIST	AI/E-FS	ì	BENOIST)	
	CC:	Eberhard GEST	AI/SE-W	ì	GEST)	
	CC:	FILING	AI/SE-A1)	GEDT)	
	CC:	REFERENCE AI/SE-A1 942.627	72/05-81	,		
	CC:		AI/SE-A11	(

M E M O

AIRBUS INDUSTRIE



Airbus Electronic Mail System Eberhard GEST

Blagnac, 20-Jun-1997 04:38pm TLS Ref: 940.1875/97

AI/SE-W Ext:

TO: See Below

Subject: A300-600 MSN 513 AAL - EXPOSURE TO VERY HIGH LOADS

David,

subject aircraft was reported to have encountered severe turbulence during approach.

AAL initially reluctant to release the DFDR as well as any inspection results did so recently.

Based on this information the corresponding responsible of our partners saw no reason to ground the a/c. However they will transmit additional inspection requirements to AAL early next week which AAL were very much willing to perform within the time constraints provided (next A-check). AAL were informed about our serious concern in this issue and that we refrained putting the a/c on ground only because of the inspection results received from them today.

Another concern I would like to raise is that if this a/c forms part of the batch being AIB property we should retain carefully the evidence to claim compensation if this a/c will show damage which was not discovered now and inform AAL accordingly. Since I don't know exactly who would be responsible for that I am addressing myself to you.

Best regards

Eberhard Gest

Distribution:

	David BAUSOR Roger LECOMTE Jean-Michel GAILLARDON Thomas GROTZKY REFERENCE AI/SE-W 940.18 Thierry VAN DER HEYDEN	ACS	(LECOMTE) (GAILLARDON) (GROTZKY) (VANDERHEYDEN)
CC:	Ernie BRACKEN Cornelius BRONDER	ACS-C2	(BRACKEN)
cc:	David BRADLEY	AINA/C AI/SP	(BRONDER) (BRAD <u>LEY</u>)
CC:	Patrice ROGER	AI/EE-I	

E E E d

Alste w Electronic Meil System PLEETS CAMEON AI/SI-111 Bec 34711

Post-It® Fax Note 7671 02005 IKE Co./Dept LLHOUS Phone (est t

₩¢• See Selow

Subject: A300-600, AAL, MENOS13, NOOCOO ACTIONS FURTHER TO TORDULENCES

Customer Services Directorate Pierre CAMBON AT/UB-A11 Exc: (33) (0) 1

Blagane, 24-Jun-1997 Ref: 942.5408/97

. TO: ARCS: ABLITUL

"cc:

Subject A300-600, AAL, MSNOS13, N90070 ACTIONS FURTHER. 10 TUREULENCES

YOUR THE: ACE-R/AND/TUD/000465/97 Our previous ref: 942.6371/97 DATED 23/06/97

THIS MAIL SUPERSEDE PREVIOUS MAIL IN REFERENCE ABOVE.

Further to the inspection report and results provided by AAL for above mantioned subject and after investigation with our stress office, please find herafter additional inspection tasks that we recommend to perform at the next opportunity, not later than the next & Check.

List of inspection tasks to be performed:

All structural inspections are visual.

TOUBL A/C:

Levelling and, measurement check earliest

as per AMM05-56-00 para. 8 and 9 only * mist show no permanent deformations of the A/C (Stabilizer 1)

Fuselage (inside):

FR 84 up to FR 87 above stringer 23 included FR 91 all areas

Fusalage (outside): all corners at the door cutours

area between FR54 and FR58 below stringer 38

Vertical stabilizer: RIB 7 rear frame-work strut (inside)
RIB 12 front frame-work strut (inside)
Skin panels near fuselage attachment

1.9 EGEON

RE STRUCT REPAIR 33

102:31 1997 17:50 BE:31 100 1997 17:50

the

at



fittings (inside and Outside):

* Detween Tear aper and stringer 5 and 4 * Detween Stringer 8 and 15 up to rib 3 * Detween Stringer 21 and front spar up

to mib Z

Horiz. Stabilizer: General inspection of THS and Elevator locking for deformations, misalignments Deflection of Elevators by hand to mislignements or deformations of hinge Littings Rear support and screw jack fittings THE skin joints Spar joints

: Renik

We recommend to extend the inspection according to AMM to Rib

Fleese provide us with inspection results and comments.

In addition to, please provide us with sketch showing location of sheared fasteners and action performed

REGARDS.

Pierre Causon MIRG COORDINATOR TEL (33)

Distribution:

ARCS : AALTUL

REFERENCE AI/SE-A11 942.6408/97 CC+ CC; Rherhard GEST Jean-Michel GAILLARDON AI/SE-W AI/SE-A AI/SE-A1 CEST) GROTZKY) CC: Thomas CROTZKY Prosper KULJPERS Jacques LEBORGNE KULJPERS LEBORGNE CC: AI/SE-ALL AI/SE-AZ Merio-France Bousquar Jean Daney AI/SH-A1

カエノスーアニ

5,4 ESECH PEE SIGNET TOUSIES GIR

DVFEA)

15:41 266t WW 172

06/24/97 10:39

TX/RX NO.8118

P.002

SIRTEDO DESTA: DESTA



Atrice Electronic Meil Gystem Pierra CAMBON

Blagmas, 25-Jun-1997 06:12pm TLS Pof: 942.6455/97

AI/BE-All

TO: See Below

Subject: A300-600, AAL, MSN0513, N90070

Post-it* Fax Note 7671	Date (4)35 pages 2
TO /1 / Ze O	From T KQ
	Go.
Phone #	Phone 4
FOR 4	Féci 9

Oustomer Services Directorate Pierro CAMECN AI/SE-All ELL: (33) (U) Blagmac, 25 Jun 1997 Ref: 942,6455/97

TO: SEE DIST. LIST

Subject : A300-600, AAL, MENOS13, N90070

Your ref: S.TUL.0476

Purther to your mail in reference and our phone call, places note the following

- Levelling and measurement check for stabilizer is not required for application during this check. Inspection result will confirm if this action has to be done (at next ARL check)
- 2) Equif place removal not necessary for fuselage inspection (outside)
- 3) Wings inspection: Extended inspections up to Rib 29

Phase 1. External inspection only, if no damage is apparent then no further action is required. If damage is present, in principle phase 2 must be carried out. We would however advise AAN to report any phase 1 findings in order to consider possibility to postpone phase 2 till a more convenient opportunity or propose alternative inspections (avoiding to access the wing).

Phase 2. Close visual inspection of internal structure for distortion, cracks, pulling or tearing of factoners and for damaged paint work.

- 4) inspection has to be performed during this check (Inspection are simple and no time consuming checks)
- 5) Refer to point 1)

Hope this clarify the cituation. Do not hesitate to contact us if further assistance is required. (STR-DAY PROSDAGE)

P.001

TX/RX NO.8139

06/25/97 13:05



AIRBUS INDUSTRIE

Ref: NONE

. 30-Jun-1997 06:40pm TLS

Airbus Electronic Mail System

AALTUL

Airbus Industrie

Ext:

TO: See Below

Subject: A300-600 ATA53 MSN513 TURBULENCE INSPECTION

AIRBUS TXT

O/Ref: AAL/TUL/000489/97

Y/Ref:

Date: 1997/06/30

Reply Requested: NR

: A300-600 ATA53 MSN513 TURBULENCE INSPECTION

FROM: MR. I. BULLAMORE - ACS-R/AAL/TUL

2

TO:

MR. P. CAMBON - AI/SE-A11

()

PIERRE,

AAL HAS COMPLETED THE INSPECTION AS OUTLINED IN Y/REF 942.6455/97. INSPECTION WAS COMPLETED ON 27 JUNE WITH AAL STRUCTURAL ENGINEERING TOM FORSBERG ON SITE AND THERE WERE NO FINDINGS.

I AM MAILING YOU THE FORMS USED DURING THIS INSPECTON PLUS COPIES OF ALL THE FORMS USED DURING THE INSPECTION ON 13 MAY. YOU SHOULD EXPECT TO RECEIVE EVERYTHING BY THURSDAY THIS WEEK.

NR BRGDS, IKE BULLAMORE AAL/TUL

Distribution:

TO: CAMBON Pierre, AI/SE-A11

CO BOUSQUET Marie-france, AI/SE-A1
CO BRACKEN Ernie. ACS-C2 BRACKEN Ernie, ACS-C2

CC: GAILLARDON Jean-Michel, AI/SE-A

CC: GEST Eberhard, AI/SE-W CC: GROTZKY Thomas, AI/SE-A1 CC: RECEPTION Ais, AI/SG-R

