
Turbulence injuries, Airbus A340-300, D-AIGK, September 18, 1996

Micro-summary: This Airbus A340 experienced turbulence in-flight.

Event Date: 1996-09-18 at 1745 CDT


Investigative Body: National Transportation Safety Board (NTSB), USA


Investigative Body's Web Site: <http://www.nts.gov/>


Cautions:

1. Accident reports can be and sometimes are revised. Be sure to consult the investigative agency for the latest version before basing anything significant on content (e.g., thesis, research, etc).
 2. Readers are advised that each report is a glimpse of events at specific points in time. While broad themes permeate the causal events leading up to crashes, and we can learn from those, the specific regulatory and technological environments can and do change. ***Your company's flight operations manual is the final authority as to the safe operation of your aircraft!***
 3. Reports may or may not represent reality. Many many non-scientific factors go into an investigation, including the magnitude of the event, the experience of the investigator, the political climate, relationship with the regulatory authority, technological and recovery capabilities, etc. It is recommended that the reader review all reports analytically. Even a "bad" report can be a very useful launching point for learning.
 4. Contact us before reproducing or redistributing a report from this anthology. Individual countries have very differing views on copyright! We can advise you on the steps to follow.
-

Aircraft Accident Reports on DVD, Copyright © 2006 by Flight Simulation Systems, LLC
All rights reserved.
www.fss.aero

		NTSB ID: FTW96IA389		Aircraft Registration Number: DAIGK	
		Occurrence Date: 09/18/1996		Most Critical Injury: Minor	
		Occurrence Type: Incident		Investigated By: NTSB	
Location/Time					
Nearest City/Place SAN ANTONIO		State TX	Zip Code 78216	Local Time 1745	Time Zone CDT
Airport Proximity: Off Airport/Airstrip		Distance From Landing Facility:		Direction From Airport:	
Aircraft Information Summary					
Aircraft Manufacturer Airbus Industrie		Model/Series AE 340-300		Type of Aircraft Airplane	
Sightseeing Flight: No			Air Medical Transport Flight: No		
Narrative					
<p>Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:</p> <p>On September 18, 1996, at 1745 central daylight time, an Airbus AE-340-300, German Registration DAIGK, encountered turbulence near San Antonio, Texas, while en route to Dallas/Fort Worth International Airport. A total of 8 passengers received minor injuries. Of the injured, 1 adult and 3 infants were sent to the hospital, treated and released. The remaining injured passengers were treated by paramedics at the airport. The 3 infant children were "lap children," ages 3,5 and 16 months respectively. The aircraft was being operated by Lufthansa Airlines as Flight DLH 437, under Title 14 CFR Part 129. The flight originated from the Houston Intercontinental Airport at 1653 and encountered the turbulence approximately 52 minutes after takeoff.</p> <p>The captain reported during an interview conducted by an FAA inspector that, approximately 30 minutes after takeoff, while in cruise flight at FL280, the aircraft's airborne weather radar indicated a possible area of turbulence ahead. The captain turned on the seat belt sign. When the flight was 20 nautical miles north of Three Rivers, Texas (THX), the captain made an announcement over the public address (PA) system for the cabin attendants to take their seats. The flight encountered "strong" turbulence, 30 nautical miles north of San Antonio, Texas, near HENLY intersection. The captain did not notify ARTCC of any injuries until he was executing the Acton 4 arrival procedure at DFW airport, approximately 30 miles south of Acton, Texas, at approximately 1810.</p> <p>A severe turbulence inspection was performed by Lufthansa maintenance personnel at the DFW Airport. No structural damage was found; however, a cracked overhead plastic light track was found in the main cabin area. The aircraft departed DFW Airport at approximately 2100 for the return leg to Frankfurt, Germany.</p> <p>Attempts made to obtain a pilot operator report were not successful.</p>					
FACTUAL REPORT - AVIATION					
Page 1					

 National Transportation Safety Board FACTUAL REPORT AVIATION		NTSB ID: FTW96IA389			
		Occurrence Date: 09/18/1996			
		Occurrence Type: Incident			
Landing Facility/Approach Information					
Airport Name	Airport ID:	Airport Elevation Ft. MSL	Runway Used 0	Runway Length	Runway Width
Runway Surface Type:					
Runway Surface Condition:					
Type Instrument Approach: NONE					
VFR Approach/Landing: None					
Aircraft Information					
Aircraft Manufacturer Airbus Industrie		Model/Series AE 340-300		Serial Number	
Airworthiness Certificate(s): Transport					
Landing Gear Type: Retractable - Tricycle					
Homebuilt Aircraft? No	Number of Seats: 335	Certified Max Gross Wt.	597450 LBS	Number of Engines: 2	
Engine Type: Turbo Fan	Engine Manufacturer: CFM	Model/Series: CFM56	Rated Power: 31200 LBS		
- Aircraft Inspection Information					
Type of Last Inspection Unknown	Date of Last Inspection	Time Since Last Inspection Hours	Airframe Total Time Hours		
- Emergency Locator Transmitter (ELT) Information					
ELT Installed? No	ELT Operated?	ELT Aided in Locating Accident Site?			
Owner/Operator Information					
Registered Aircraft Owner DEUTSCHE LUFTHANSA A G		Street Address AIRPORT - FRA CF D-60546			
		City FRANKFURT/MAIN	State OF	Zip Code	
Operator of Aircraft Same as Reg'd Aircraft Owner		Street Address Same as Reg'd Aircraft Owner			
		City	State	Zip Code	
Operator Does Business As: LUFTHANSA			Operator Designator Code: DLAF		
- Type of U.S. Certificate(s) Held: None					
Air Carrier Operating Certificate(s):					
Operating Certificate:			Operator Certificate:		
Regulation Flight Conducted Under: Part 129: Foreign					
Type of Flight Operation Conducted: Scheduled; International; Passenger Only					
FACTUAL REPORT - AVIATION					

 <p>National Transportation Safety Board FACTUAL REPORT AVIATION</p>	NTSB ID: FTW961A389
	Occurrence Date: 09/18/1996
	Occurrence Type: Incident

First Pilot Information

Name On File	City	State	Date of Birth On File	Age 55
-----------------	------	-------	--------------------------	-----------

Sex: M	Seat Occupied: Left	Principal Profession: Civilian Pilot	Certificate Number: On File
--------	---------------------	--------------------------------------	-----------------------------

Certificate(s): Airline Transport

Airplane Rating(s): Multi-engine Land

Rotorcraft/Glider/LTA: None

Instrument Rating(s): Airplane

Instructor Rating(s): None

Type Rating/Endorsement for Accident/Incident Aircraft? Yes	Current Biennial Flight Review?
---	---------------------------------

Medical Cert.: Class 1	Medical Cert. Status: Unknown	Date of Last Medical Exam: 06/1995
------------------------	-------------------------------	------------------------------------

- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Multi-Engine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	5000									
Pilot In Command(PIC)	4000									
Instructor										
Last 90 Days										
Last 30 Days										
Last 24 Hours	10	10								

Seatbelt Used? Yes	Shoulder Harness Used? Yes	Toxicology Performed? No	Second Pilot? Yes
--------------------	----------------------------	--------------------------	-------------------

Flight Plan/Itinerary

Type of Flight Plan Filed: IFR

Departure Point HOUSTON	State TX	Airport Identifier IAH	Departure Time 1653	Time Zone CDT
----------------------------	-------------	---------------------------	------------------------	------------------

Destination DFW	State TX	Airport Identifier DFW	
--------------------	-------------	---------------------------	--


Type of Clearance: IFR

Type of Airspace: Class A

Weather Information

Source of Briefing: Company

Method of Briefing:

 <p>National Transportation Safety Board FACTUAL REPORT AVIATION</p>	NTSB ID: FTW96IA389
	Occurrence Date: 09/18/1996
	Occurrence Type: Incident

Weather Information

WOF ID	Observation Time	Time Zone	WOF Elevation	WOF Distance From Accident Site	Direction From Accident Site
	0000		0 Ft. MSL	0 NM	0 Deg. Mag.

Sky/Lowest Cloud Condition: Unknown	0 Ft. AGL	Condition of Light: Day
-------------------------------------	-----------	-------------------------

Lowest Ceiling: Unknown	0 Ft. AGL	Visibility: 0 SM	Altimeter: "Hg
-------------------------	-----------	------------------	----------------

Temperature: °C	Dew Point: °C	Wind Direction:	Density Altitude: Ft.
-----------------	---------------	-----------------	-----------------------

Wind Speed:	Gusts:	Weather Conditions at Accident Site: Visual Conditions
-------------	--------	--

Visibility (RVR): 0 Ft.	Visibility (RVV) 0 SM	Intensity of Precipitation: Unknown
-------------------------	-----------------------	-------------------------------------

Restrictions to Visibility:

Type of Precipitation:

Accident Information

Aircraft Damage: None	Aircraft Fire: None	Aircraft Explosion: None
-----------------------	---------------------	--------------------------

Classification: Foreign Registered/U.S. Soil

- Injury Summary Matrix	Fatal	Serious	Minor	None	TOTAL
First Pilot				1	1
Second Pilot				1	1
Student Pilot					
Flight Instructor					
Check Pilot					
Flight Engineer				1	1
Cabin Attendants				9	9
Other Crew					
Passengers			8	154	162
- TOTAL ABOARD -			8	166	174
Other Ground	0	0	0		0
- GRAND TOTAL -	0	0	8	166	174

National Transportation Safety Board

FACTUAL REPORT

AVIATION



NTSB ID: FTW96IA389

Occurrence Date: 09/18/1996

Occurrence Type: Incident

Administrative Information

Investigator-In-Charge (IIC)

WILLIAM H. GAMBLE

Additional Persons Participating in This Accident/Incident Investigation:

CHARLES COLEMAN
FAA FSDO
DFW, TX 75261