Turbulence injuries, Boeing 757-2Q8, N755AT, March 2, 1997

Micro-summary: This Boeing 757 encountered turbulence in descent, injuring several people.

Event Date: 1997-03-02 at 0555 CST

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

Investigative Body's Web Site: http://www.ntsb.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.

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National Transportation Safety Board		NTSB	ID: CHI97LA07	8	Aircraft Registration Number: N755AT				
			ence Date: 03/0	2/1997	Most Critical Inj	Most Critical Injury: Serious			
AYIATION FTYBON		Occurr	ence Type: Acci	dent	Investigated By	: NTS	NTSB		
Location/Time									
Nearest City/Place	State	ate Zip Code Local Time			Time Zone				
CHICAGO	IL		60666	0555	CST				
Airport Proximity: Unknown	Dista	ance From Landing Facility: Direction From Airport:							
Aircraft Information Summary									
Aircraft Manufacturer Model/Series Type of Aircraft							Type of Aircraft		
Boeing			757-2Q8				Airplane		
Sightseeing Flight: No			Air Medical T	ransport Flight: N	D				
Narrative									
<pre>On March 2, 1997, at 0555 Airlines Flight 199, experi The international 14 CFR Pay Durango, Mexico, at 0335 w sustained no damage; however, serious injuries. Visual meta accident. The Captain stated in his w through 26,000 feet and com made an announcement to the p told passengers to fasten the Seatbelt" sign remained on. The First Officer, who was written report that descend reducing penetration speed of the airplane encountered see descent and climb respective about two minutes. He sa "Fasten Seatbelt" light. He of the airplane. A flight attendant described started she made an announ seatbelts. This announcement seriously injured passengers w The company debriefed the characterized it as "clear previous warning of turbules meteorological information is route conditions stating that is The accident occurred on S March 3rd. Prior to receiving personnel while in Chicage airplane was then returned same day. There was no at</pre>	g 757-208 Airplane seeing Flight: No Air Medical Transport Flight: No two Introduction of the conditions and droumstances patiment to the accident/incident A march 2, 1997, at 0555 central standard time, a Boeing 757-208, N755AT, operating as Mexicana inces Flight 199, experienced turbulence approximately 120 miles south of Chicago, Illinois. International 14 CFR Part 129 flight was descending through 26,000 feet. The flight departed out on damage; however, of the 202 persons aboard, 18 suffered minor injuries and 4 sustained out injuries. Visual meteorological conditions prevailed at the destination at the time of the dent. Captain stated in his written statement that the turbulence began when the airplane descended uph 26,000 feet and continued until 20,000 feet. He said that when passing through 26,000 he an announcement to the passengers to take their seats. He said that during the turbulence he belt' sign remained on. First Officer, who was at the controls at the time of the turbulence encounter the 'Fasten belt' sign remained on. First Officer, who was at the controls at the time of clim breaching a 5,000 foot per minute encountered severe turbulence with rate of clim breaching a 5,000 foot per minute tent and climb respectively. He said that after the turbulence encounter, said in his the respectively. He said that after the turbulence encounter the sate their seats and fasten their seats and fasten their bestels' light. He indicated that after the turbulence encounter the captain to two on the take service and the subpresens to return to their seats and fasten their belts's in this announcement for passengers to return to their seats and fasten their belts. This announcement to reassing through 26,000								

FACTUAL REPORT - AVIATION

National Transportation Safety Boa	ard	NTSB ID: CHI97LA078										
FACTUAL REPORT		Occu	currence Date: 03/02/1997									
AVIATION		Осси	urrence	ence Type: Accident								
Landing Facility/Approach Information												
Airport Name	Airpo	rt ID:	Airport Eleva	ition	Run	way Used	Runwa	ay Length	n Ru	nway Width		
	Ft	. MSL	0									
Runway Surface Type:												
Runway Surface Condition:												
Type Instrument Approach:												
VFR Approach/Landing:												
Aircraft Information												
Aircraft Manufacturer Boeing				Model/ 757-2						Number 5		
Airworthiness Certificate(s): Transport												
Landing Gear Type: Retractable - Tricycle												
Homebuilt Aircraft? No Nu	Number of Seats: 220 Certified Max Gross Wt. 256000 LBS Number of Engines: 2								es: 2			
					Engine Manufacturer:Model/Series:P&WPW 2040						Rated Power: 41300 LBS	
- Aircraft Inspection Information												
Type of Last Inspection D.					Inspection	-	Time Si	nce Last Inspe			Airframe	Total Time
AAIP									806 Ho	ours		Hours
- Emergency Locator Transmitter (EL	T) Information											
ELT Installed? No	ELT Opera	ELT Operated? ELT Aided in Locating Accident Site?										
Owner/Operator Information												
Registered Aircraft Owner			5	Street A		RPOR	T BLVI	D., SUITE 20	00			
MEXICANA AIRLINES			C	City							State	Zip Code
				Street A	LOS AN	GELE	S				CA	90045
Operator of Aircraft						s Reg'o	d Aircra	aft Owner				
								Zip Code				
Operator Does Business As: MEXICA	NA AIRLINES	3					O	perator Desigr	nator Co	ode: CM	DF	
- Type of U.S. Certificate(s) Held: Nor	ne											
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 Page 2												

National Transportation	NTSB ID: CHI97LA078											
FACTUAL RI	PORT		Occurren	ce Date: 03	3/02/19	97						
Z	1 2							-				
AVIATI ETYBO	April 1		Occurrent	ce Type: A	cidem							
First Pilot Information City State Date of Birth Age												
Name			Date of Birth	Age								
On File										On File	On File	56
Sex: M Seat Occupied:	Left	Pri	ncipal Profes	sion: Civilia	an Pilot	t			Certifi	icate Num	ber: On File	
Certificate(s): Airline Transport; Flight Instructor												
Airplane Rating(s): Multi-engine Land												
Rotorcraft/Glider/LTA: None	÷											
Instrument Rating(s): Airpl												
Instructor Rating(s): Airplane Multi-engine; Airplane Single-engine												
Type Rating/Endorsement for	or Accident/Ir	ncident Aircra	aft? Yes			c	urrent B	iennial Flig	ht Rev	view?		
Medical Cert.: Class 1	Medica	al Cert. Statu	s: Valid Me	dicalw/ w	aivers/	lim.		Date o	of Last	Medical	Exam: 06/199	6
	•											
- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Mult-Engine	N	ight	Actual	Instrument Simul	ated	Rotorcraft	Glider	Lighter Than Air
Total Time	19500	200	1500	18000								
Pilot In Command(PIC)	13500			13500	_							
Instructor	5000	50		5000								
Last 90 Days	150				_							
Last 30 Days Last 24 Hours	50 5				+							
Seatbelt Used? Yes		ldor Horpoor	I S Used? Yes			Toxico		rformed? N			I Second Pilot? γ	 /oo
Sealbeit Osed? Tes	Shot		s Used? Tes			TUXICO	лоду ге		0			es
Elight Dian/Itinaran/												
Flight Plan/Itinerary Type of Flight Plan Filed: IF												
Departure Point	ĸ					Charles	-	A incontinuo		Dam	autuma Tima	Time Zene
						State		Airport Ider	ntifier		arture Time	Time Zone
DURANGO						MX		DGO		0335	D	CST
Destination						State		Airport Ider	ntifier			
Same as Accident/Incide	nt Location							ORD				
Type of Clearance: IFR												
Type of Airspace: Class	A											
Weather Information												
Source of Briefing: Compa												
Method of Briefing:												
			FACTUAI	REPORT	- AVI	ATION	N					Page 3

Nationa	al Transportation Safety	Board	NTS	NTSB ID: CHI97LA078								
	ACTUAL REPOR		Occ	urrence Date	e: 03/02/1	997		1				
	Z AVIATION ETYBOP			Occurrence Type: Accident								
Weather	Information											
WOF ID	Observation Time	Time Zone	WOF	Elevation	WOF D	istance From	Acci	dent Site		Direction From	n Accident Sit	e
-												
ORD	0556	CST	6	66 Ft. MSL				120 NM			360 Deg.	Mag.
Sky/Lowest Cloud Condition: Unknown 0 Ft. AGL Condition of Light: Night/Dark												
Lowest Ce	iling: Overcast		250	00 Ft. AGL	Visib	ility:	10	SM	Alti	meter:	29.00	"Hg
Temperatu	ıre: -1 °C	Dew Point:	-4	-4 °C Wind Direction: 300 Density Altitude:								Ft.
Wind Spee	ed: 10	Gusts:		Wea	ather Condt	ions at Accid	ent S	ite: Visual (Cond	itions		
Visibility (R	RVR): 0 Ft.	Visibility	(RVV)	0 SM	Intensit	y of Precipita	tion: I	Unknown				
	s to Visibility: None					<u> </u>						
Type of Pre	ecipitation: None											
Accident	Information											
	mage: None		Aircr	aft Fire: Nor	ne			Aircraft Exp	olosio	n None		
	on: U.S. Registered/F	oreian Oper										
	mmary Matrix	Fatal	Serious	Minor	None	TOTAL						
First Pi					1	1						
Second	d Pilot				1	1						
Studen	t Pilot											
Flight li	nstructor											
Check	Pilot											
Flight E	Engineer											
Cabin A	Attendants			4	2	6						
Other C	Crew											
Passen	ngers		4	14	176	194						
- TOTAL A	ABOARD -		4	18	180	202						
Other G	Ground	0	0	0		0						
- GRAND	D TOTAL -	0	4	18	180	202						
	FACTUAL REPORT - AVIATION Page 4										Page 4	

		1
National Transportation Safety Board	NTSB ID: CHI97LA078	
FACTUAL REPORT	Occurrence Date: 03/02/1997	
AVIATION	Occurrence Type: Accident	
Administrative Information		
Investigator-In-Charge (IIC)		
STEPHEN A. WILSON		
Additional Persons Participating in This Accident	t/Incident Investigation:	
ROBERT D WOOD		
FAA-9950 W. LAWRENCE SCHILLER PARK, IL 60176		
SCHILLER PARK, IL 60176		