Turbulence injury, Airbus A319-111, June 2, 2003

Micro-summary: This Airbus A319-111 encountered turbulence on approach. One flight attendant was seriously injured.

Event Date: 2003-06-02 at 2029 MDT

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!

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PACTUAL REPORTOccurre Date: $06/02/03$ Most Critical Injury: SeriousAVALUATIONOccurre Type: AccidentInvestigated By: NTSBLocation/TimeStateZip CodeLocal TimeTime ZoneNearest City/PlaceStateZip CodeLocal TimeMDTDenverCO802392029MDTAirport Proximity: Off Airport/AirstripDistance From Landing Facility:Direction From Airport:Aircraft Information SummaryAircraft ManufacturerModel/SeriesType of Aircraft Ait9-111Airbus IndustrieModel/SeriesType of Aircraft Airplane	National Transportation Safety Board		NTSB I	D: DEN03LA09	4	Aircraft Registration Number: N910FR						
Location/Time Nearest City/Place State Zip Code Local Time Time Zone Denver CO 80239 2029 MDT Airport Proximity: Off Airport/Airstrip Distance From Landing Facility: Direction From Airport: Aircraft Information Summary Aircraft Manufacturer Model/Series Type of Aircraft Aircraft Manufacturer Model/Series Airplane Sightseeing Flight: No Sightseeing Flight: No Air Medical Transport Flight: No Narrative Brief narrative statement of facts, conditions and circumstances pertinent to the accident/Incident: On June 2, 2003, at 2029 mountain daylight time, an Airbus Industrie A319-111, N910FR, owned by Frontier Airlines, Inc., and operated as flight 045, encountered turbulence during final approach into Denver International Airport (DEN), Denver, Colorado. The airline transport certificated captain and first officer, 2 flight attendants, and 97 passengers were not injured? however, 1 flight plan had been filed for the scheduled domestic passenger flight Deling operated under the provisions of Title 14 CFR Part 121. The flight originated in Cancun, Mexico, at approximately 1553. According to a Frontier Airlines representative, the flight had been holding southeast of DEN due to thunderstorms in the area. The flight encountered turbulence. A flight attendant was stowing a beverage cart and was thrown up in the air, fell and fractured her left ankle. At 1953 the MET		ſ	Occurr	ence Date: 06/02	2/2003	Most Critical Injury: Serious						
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FACTUAL REPORT - AVIATION Page 1												

National Transportation Safety Boar	d	NTSB ID: DEN03LA094									
FACTUAL REPORT		Occurrence Date: 06/02/2003									
AVIATION		Occurrer	nce Type:	Accident							
Landing Facility/Approach Inform			71								
Airport Name	Air	irport ID: Airport Elevation Runway Used Runway Leng						ay Length	n Ru	nway Width	
Denver International Airport	DE	EN	5431 Ft	. MSL							
Runway Surface Type: Unknown											
Runway Surface Condition: Unknown											
Type Instrument Approach: Unknown											
VFR Approach/Landing: None											
Aircraft Information											
Aircraft Manufacturer Airbus Industrie			Model/ A319						Serial N 1781	lumber	
Airworthiness Certificate(s): Transport											
Landing Gear Type: Retractable - Trie	cycle		-								
Homebuilt Aircraft? No Nun	Homebuilt Aircraft? No Number of Seats: 140 Certified Max Gross Wt. 154400 LBS Number								of Engine	es: 2	
Engine Type: Turbo Fan			0	Ingine Manufacturer:Model/Series:General ElectricCFM 56-5B 5/P					0	Rated Power: 22000 LBS	
- Aircraft Inspection Information											
Type of Last Inspection		Da	Date of Last Inspection Time Since Last Inspection					/	Airframe 1	otal Time	
Continuous Airworthiness		0	06/2003				1	18.9 Ho	ours	3	012.2 Hours
- Emergency Locator Transmitter (ELT)	Information										
ELT Installed? Yes	ELT Operated? No ELT Aided in Locating Accident Site? No										
Owner/Operator Information											
Registered Aircraft Owner			Street A		Center	One	7001 Tower	Road			
Frontier Airlines Inc			City State							Zip Code	
			Street A	Denver						CO	80249
Operator of Aircraft			SlieerA		Reg'd	Aircra	aft Owner				
Same as Reg'd Aircraft Owner		City State						Zip Code			
Operator Does Business As: Operator Designator Code: F3LA											
- Type of U.S. Certificate(s) Held:											
Air Carrier Operating Certificate(s): Flag Carrier/Domestic											
Operating Certificate: Operator Certificate:											
Regulation Flight Conducted Under: Part 121: Air Carrier											
Type of Flight Operation Conducted: Scheduled; Domestic; Passenger/Cargo											
FACTUAL REPORT - AVIATION Page 2											

National Transportation Safety Board				NTSB ID: DEN03LA094									
FACTUAL REPORT Occurrence Date: 06/02/						6/02/200)3						
	AVIATION Occurrence Type: Accident								-				
	ETYBO	ACT 1		Occurren	ce Type: A	ccident							
First Pilo	First Pilot Information												
											Date of Birth	h Age	
On File	n File On File On File On File												36
Sex: M	Seat Occupied	Left	Pr	incipal Profes	sion: Civilia	an Pilot				Certifica	ate Num	ber: On File	ı
Certificate(s): Airline Transport													
Airplane Rating(s): Multi-engine Land; Single-engine Land													
Rotorcraft/Glider/LTA: None													
L													
Instrument Rating(s): Airplane Instructor Rating(s): None													
Type Ratir	ng/Endorsement fo	or Accident/Ir	ncident Aircra	aft? Yes			С	urrent B	iennial Flig	nt Revie	w? 05/	2003	
Medical C	ert.: Class 1	Medica	al Cert. Statu	s: Valid Me	dicalno w	/aivers/li	im.		Date o	f Last M	ledical	Exam: 01/20)03
									•				
- Flight Ti	me Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Mult-Engine	Nigł	ht	Actual	Instrument Simula	ited	Rotorcraft	Glider	Lighter Than Air
Total Time	e	4598	450	743	3855	1	1639		383				
Pilot In Co	ommand(PIC)												
Instructor													
Last 90 D			217										
Last 30 D	-		88										
Last 24 H													
Seatbelt L	Jsed? Yes	Shou	Ilder Harnes	s Used? Yes			Toxico	ology Pe	rformed? N	0	5	Second Pilot?	Yes
	an/Itinerary												
	ight Plan Filed: IF	R									-		
Departure	Point						State		Airport Iden	port Identifier Departure			Time Zone
Cancun									MMUN		1653	3	CDT
Destinatio	n						State		Airport Iden	tifier			
Same as	Same as Accident/Incident Location DEN												
Type of Clearance: IFR													
Type of Airspace:													
Weather Information													
Source of Briefing: Company													
Method of Briefing: Teletype													
	FACTUAL REPORT - AVIATION Page 3												

Nationa	TRANSP al Transportation Safety	NTSB ID	NTSB ID: DEN03LA094										
FACTUAL REPORT				Occurrence Date: 06/02/2003									
	AVIATION ETYBOR		Occurrence Type: Accident										
Weather Information													
WOF ID	Observation Time	Time Zone	WOF Eleva	ation	WOF Di	stance From	n Accie	dent Site		Direction Fro	m Accident Site	9	
DEN	2053	MDT	5431 F	t. MSL				NM			Deg.	Mag.	
	t Cloud Condition: Fev				I	7500 Ft. AG	L	Condition of	of Ligl				
Lowest Ce	iling: Broken		15000 F	t. AGL	Visib	ility:	10	SM					
Temperatu		Dew Point:	9 °C		Direction:	-			De	nsity Altitude:	6585	Ft.	
Wind Spee		Gusts:					lent S	ite: Visual (-			
Visibility (R		t. Visibility	(RVV)	SM		y of Precipita		vioual (
	s to Visibility: None		()			,							
	,												
Type of Pre	ecipitation: None												
Accident	Information												
Aircraft Dar	mage: None		Aircraft F	ire: None)			Aircraft Exp	olosio	n None			
Classificati	on: U.S. Registered/	U.S. Soil											
- Injury Su	mmary Matrix	Fatal	Serious Mi	nor	None	TOTAL							
First Pi	lot				1	1							
Second	d Pilot				1	1							
Studen	t Pilot												
Flight li	nstructor												
Check	Pilot												
Flight E	ngineer												
Cabin A	Attendants		1		2	3							
Other C	Crew												
Passen	igers				97	97							
- TOTAL A	BOARD -		1		101	102							
Other G	Ground												
- GRANE	TOTAL -		1 101 102										
	FACTUAL REPORT - AVIATION Page 4												

National Transportation Safety Board FACTUAL REPORT	NTSB ID: DEN03LA094										
FACTUAL REPORT	Occurrence Date: 06/02/2003										
AVIATION	Occurrence Type: Accident										
Administrative Information											
Investigator-In-Charge (IIC)											
James F. Struhsaker											
Additional Persons Participating in This Accident/Inc	ident Investigation:										
Roger O Kenny Air Safety Inspector Denver FSDO Denver, CO											