Tailstrike on landing, McDonnell Douglas DC-9-82, June 16, 2002

Micro-summary: This McDonnell Douglas DC-9-82 encountered a tail strike while landing.

Event Date: 2002-06-16 at 2030 CDT

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	: CHI02LA17()	Aircraft Registration Number: N140NJ				
FACTUAL REPORT		Occurren	ice Date: 06/16	6/2002	Most Critical Injury: None				
AVIATION		Occurren	ice Type: Accio	lent	Investigated By: NTSB				
Location/Time	I								
Nearest City/Place	State	z	ip Code	Local Time	Time Zone				
Kansas City	МО	6	4153	2030	CDT				
Airport Proximity: On Airport	Distance From Landing Facility: Direction From Airport:								
Aircraft Information Summary									
Aircraft Manufacturer			Model/Series	6			Type of Aircraft		
McDonnell Douglas			DC-9-82				Airplane		
Sightseeing Flight: No		ŀ	Air Medical Tr	ansport Flight: No)				
Narrative									
							cructure during a ime and landed on cnational Airport time of landing. pilots, 3 flight from the Orlando who was seated in the right seat. A visual approach nottles remained ag was set to 130 e airplane was at e path and at 500 call and checked ght his scan back down any further. had a blank left engaged position be able to spool e position of the e of the airplane the first officer to level off and itude to continue as made resulting		

National Transportation Safety Board	a NT	NTSB ID: CHI02LA170										
FACTUAL REPORT	Oc	curren	ce Date:	06/16/2002								
AVIATION	Oc	curren	се Туре:	Accident								
Landing Facility/Approach Information												
Airport Name	Airp	rport ID: Airport Elevation Runway Used Runway Leng						ay Length	n Rur	way Width		
Kansas City International	Kansas City International						01 10801			15	0	
Runway Surface Type: Concrete												
Runway Surface Condition: Dry												
Type Instrument Approach: ILS-complete; Visual												
VFR Approach/Landing: Full Stop												
Aircraft Information												
Aircraft Manufacturer McDonnell Douglas			Model/ DC-9						Serial N 49931	Number 1		
Airworthiness Certificate(s): Transport												
Landing Gear Type: Retractable - Tricycle												
Homebuilt Aircraft? No Num	Homebuilt Aircraft? No Number of Seats: 139 Certified Max Gross Wt. 150500 LBS Number of Engines: 2									s: 2		
Engine Type: Turbo Fan		Engine Manufacturer:Model/Series:Pratt & WhitneyJT8-219							Rated Power: 21700 LBS			
- Aircraft Inspection Information												
Type of Last Inspection Da				t Inspection	Т	Time Si	nce Last Inspe			Airframe T	otal Time	
Continuous Airworthiness		06	6/2002			21	1.33 Ho	ours	280)59.5 Hours		
- Emergency Locator Transmitter (ELT)	Information											
ELT Installed? No	ELT Operated?	Operated? No ELT Aided in Locating Accident Site? No										
Owner/Operator Information												
Registered Aircraft Owner			Street A	ddress 79 S Ma	in Stre	et						
Wells Fargo Bank Northwest NA Tr	ustee		City	0 14 1	0.1					State	Zip Code	
		_	Street A	Salt Lak	e City					UT	84111	
Operator of Aircraft			oncon	533 Mex	ico Cit	ty Aver	nue					
Vanguard Airlines Inc.			City	Kansas	City		State Zip Code MO 64153					
Operator Does Business As:		•				O	perator Desigr	nator Co	ode: P2E	A	-	
- 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 Only												
FACTUAL REPORT - AVIATION Page 2												

Nation	TRANS	NTSB ID: CHI02LA170												
	ACTUAL RI			Occurrer	Occurrence Date: 06/16/2002									
	AVIATI	1 2			Occurrence Type: Accident									
		A.		Occurren	100 Type. 70	colucin								
	First Pilot Information City State Date of Birth Age													
														_
On File													36	
Sex: M	Sex: M Seat Occupied: Left Principal Profession: Civilian Pilot Certificate Number: On File													
Certificate(s): Airline Transport; Commercial														
Airplane Rating(s): Multi-engine Land; Single-engine Land														
Rotorcraft/	Glider/LTA: None	9												
Instrument	t Rating(s): Airpl	ane												
Instructor Rating(s):														
Type Ratin	ng/Endorsement fo	or Accident/Ir	ncident Aircra	aft? Yes			C	Current E	Biennial Fl	ight Re	eview? 05	/2002		
Medical Ce	ert.: Class 1	Medica	al Cert. Statu	is: Valid Me	edicalw/ w	aivers/	lim.		Date	of La	st Medical	Exam: 01/	2002	
		·												
- Flight Tir	me Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Mult-Engine	Ni	ght	Actual	Instrument	nulated	Rotorcraf	t Glie	der	Lighter Than Air
Total Time	9	7550	6											
Pilot In Co	mmand(PIC)													
Instructor						_					_			
Last 90 Da		24				_								
Last 30 Da						-								
	lsed? Yes	Shou	ldor Harpos	L s Used? Yes	Used? Yes Toxicology Performed? No Second Pilot? Yes									
		31100		s Useu: Tes	>		TOXIC	ology i c		INU				
Elight D/	an/Itinerary													
	ight Plan Filed: IF													
Departure	-	ĸ					State	<u> </u>	Airport Id	ontifior	Don	arture Time	<u> </u>	Time Zone
										enunei				
Orlando							FL		MCO		190	5		EDT
Destination State Airport Identifier MCI														
Type of Cl	Type of Clearance: IFR													
Type of Ai	rspace: Class	В												
Weather	Information													
Source of	Briefing: Compa	any												
Method of	Briefing: In Pers	son												
				FACTUA	LREPORT	' - AVI	ΑΤΙΟΙ	N						Page 3

Nationa	al Transportation Safety	NTSB ID:	NTSB ID: CHI02LA170										
	ACTUAL REPOR		Occurrent	06/16/2	002]						
	AVIATION		Occurrent	ce Type:	Acciden	t		1					
Weather	Information			51		-							
WOF ID	Observation Time	Time Zone	WOF Elevat	ion	WOF Di	stance From	n Accio	dent Site		Direction Fro	m Accident Sit	te	
MCI	1953	CDT	1005 Ft.	MSL				NM			Deg. Mag.		
Sky/Lowes	st Cloud Condition: Scat	ttered			20	0000 Ft. AG	L	Condition of	Condition of Light: Day				
Lowest Ce	iling: None		Ft.	AGL	Visibi	lity:	10	SM	"Hg				
Temperatu	ure: 23 °C	Dew Point:	9 °C	Wind	Direction:	60			De	nsity Altitude:		Ft.	
Wind Spee	ed: 6	Gusts:		Weath	ner Condt	ions at Accio	dent S	ite: Visual (Cond	itions			
Visibility (F	RVR): Ft.	Visibility (R	VV)	SM	Intensity	of Precipita	ation:						
Restriction	s to Visibility: None												
Type of Pre	ecipitation: None												
.,													
Accident	Information												
Aircraft Da	mage: Substantial		Aircraft Fir	e: None	;			Aircraft Exp	olosio	n None			
Classificati	on: U.S. Registered/L	J.S. Soil											
	mmary Matrix		erious Mino	or	None	TOTAL							
First Pi					1	1							
Second	d Pilot				1	1							
Studen	it Pilot												
Flight li	nstructor												
Check	Pilot												
Flight E	Engineer												
Cabin A	Attendants				3	3							
Other C	Crew												
Passer	ngers				118	118							
- TOTAL A	ABOARD -				123	123							
Other C	Ground												
- GRANE	D TOTAL -			123 123									
	FACTUAL REPORT - AVIATION Page 4										Page 4		

National Transportation Safety Board FACTUAL REPORT	NTSB ID: CHI02LA170	
FACTUAL REPORT	Occurrence Date: 06/16/2002	
AVIATION	Occurrence Type: Accident	
Administrative Information	· ·	
Investigator-In-Charge (IIC)		
Mitchell F. Gallo		
Additional Persons Participating in This Accident	/Incident Investigation:	
Jeff Hutchinson Inspector Federal Aviation Adminstration 10015 N Executive Hills Blvd Kansas City, MO 64153		
William C Steelhammer Senior Flight Safety Investigator Boeing Commercial Aircraft 3855 Lakewood Blvd, M/C D800-0030 Long Beach, CA 90846		
Greg Dunham Director of Safety Vanguard Airlines Kansas, MO 64153		