

National Transportation Safety Board Aviation Accident Final Report

Location: HORSEHEADS, NY Accident Number: BF092FA020

Date & Time: 01/18/1992, 1028 EST Registration: N964VJ

Aircraft: DOUGLAS DC-9-30 Aircraft Damage: Substantial

Defining Event: Injuries: 2 Serious, 39 None

Flight Conducted Under: Part 121: Air Carrier - Scheduled

Analysis

AT THE TIME OF THE ACCIDENT, GUSTY WINDS WERE FORECAST FOR THE SURFACE TO HIGHER ALTIUTDES. THE COPILOT WAS FLYING AND CONFIGURED THE AIRPLANE ABOUT FOUR MILES OUT FOR LANDING ON RUNWAY 24. THE FLIGHTCREW RECIEVED PROGRESSIVE WIND INFORMATION DURING THE APPROACH; THE LAST REPORT WAS WIND AT 310 DEGRESS AND 25 KNOTS. THE APPROACH SPEED WAS V REF + 10. ACCORDING TO THE FLIGHTCREW, DURING THE LANDING FLARE A WIND GUST OCCURRED, AND THE AIRPLANE LIFTED IN A NOSE DOWN ATTITUDE. THE GUST STOPPED AND THEN THE AIRPLANE DESCENDED TO THE RUNWAY AND LANDED HARD. THE EXAMINATION OF THE AIRPLANE REVEALED THE FUSELAGE CRACKED NEAR WHERE THE WINGS WERE ATTACHED AND THE AFT FUSELAGE WAS BENT DOWN ABOUT SEVEN DEGREES.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE AIRCRAFT ENCOUNTERED A SUDDEN WIND GUST DURING LANDING FLARE, WHICH RESULTED IN A HARD LANDING.

Findings

Occurrence #1: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. FLARE - INITIATED - COPILOT/SECOND PILOT

- 2. (C) WEATHER CONDITION GUSTS
- 3. (C) DESCENT EXCESSIVE
- 4. (F) LEVEL OFF NOT ATTAINED

Factual Information

Pilot Information

Certificate:	Airline Transport	Age:	52, Male
Airplane Rating(s):	Multi-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 1 Valid Medicalw/waivers/lim.	Last FAA Medical Exam:	07/09/1991
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	` '	00 hours (Total, this make and model), days, all aircraft), 7 hours (Last 24 ho	•

Aircraft and Owner/Operator Information

Aircraft Make:	DOUGLAS	Registration:	N964VJ
Model/Series:	DC-9-30 DC-9-30	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Transport	Serial Number:	47373
Landing Gear Type:	Retractable - Tricycle	Seats:	116
Date/Type of Last Inspection:	01/17/1992, Continuous Airworthiness	Certified Max Gross Wt.:	106000 lbs
Time Since Last Inspection:	3 Hours	Engines:	2 Turbo Fan
Airframe Total Time:	59251 Hours	Engine Manufacturer:	P&W
ELT:	Not installed	Engine Model/Series:	JT8D-7B
Registered Owner:	USAIR	Rated Power:	15000 lbs
Operator:	USAIR	Operating Certificate(s) Held:	Flag carrier (121)
Operator Does Business As:	USAIR	Operator Designator Code:	USAA

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	ELM, 955 ft msl	Distance from Accident Site:	999 Nautical Miles
Observation Time:	0950 EST	Direction from Accident Site:	0°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	30 Miles
Lowest Ceiling:	Broken / 4000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	14 knots / 19 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	300°	Turbulence Severity Forecast/Actual:	1
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	-7°C / -16°C
Precipitation and Obscuration:			
Departure Point:	ITHACA, NY (ITH)	Type of Flight Plan Filed:	IFR
Destination:		Type of Clearance:	IFR
Departure Time:	1020 EST	Type of Airspace:	Class E

Airport Information

Airport:	ELMIRA/CORNING REGIONAL (ELM)	Runway Surface Type:	Asphalt
Airport Elevation:	955 ft	Runway Surface Condition:	Dry
Runway Used:	24	IFR Approach:	ILS
Runway Length/Width:	6999 ft / 150 ft	VFR Approach/Landing:	Straight-in

Wreckage and Impact Information

Crew Injuries:	5 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 Serious, 34 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Serious, 39 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	ALBERT G REITAN	Report Date:	05/26/1993
Additional Participating Persons:	P. IDE; ROCHESTER, NY E. DICK; ROCHESTER, NY P. MUNOZ; ROCHESTER, NY BILL STEELHAMMER; LONG BEECH, CA		
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at publing@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.ntsb.gov/pubdms/ .		

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The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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