



# **Aviation Investigation Final Report**

Location: DALLAS, Texas Accident Number: FTW87LA159

Date & Time: July 5, 1987, 17:32 Local Registration: N56420

Aircraft: MOONEY M20J Aircraft Damage: Substantial

**Defining Event:** 2 Serious

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

DURING FLARE/TOUCHDOWN ON RUNWAY 15, THE AIRCRAFT'S RIGHT WING CAME UP SHARPLY, DUE TO A GUSTING CROSS WIND, CAUSING THE LEFT WING TO STRIKE THE RUNWAY. THE AIRCRAFT THEN CARTWHEELED, LEFT WING, NOSE, RIGHT WING, CAUSING SUBSTANTIAL DAMAGE. REPORTED WINDS AT THE TIME OF THE ACCIDENT WERE FROM 170 DEGREES AT 16 KNOTS, GUSTING TO 28 KNOTS.

## **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

#### **Findings**

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER Phase of Operation: LANDING - FLARE/TOUCHDOWN

#### **Findings**

- 1. (F) WEATHER CONDITION GUSTS
- 2. (C) COMPENSATION FOR WIND CONDITIONS POOR PILOT IN COMMAND
- 3. (F) LACK OF TOTAL EXPERIENCE PILOT IN COMMAND

# **Factual Information**

### **Pilot Information**

Certificate:	Private	Age:	43,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Expired	Last FAA Medical Exam:	March 29, 1985
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	70 hours (Total, all aircraft)		

# **Aircraft and Owner/Operator Information**

Aircraft Make:	MOONEY	Registration:	N56420
Model/Series:	M20J M20J	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	24-1380
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	2740 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed	Engine Model/Series:	IO-360-A3B6D
Registered Owner:	NORTH DALLAS AVIATION	Rated Power:	200 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Page 2 of 4 FTW87LA159

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Scattered / 25000 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	16 knots / 28 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	170°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	34°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	LAWTON , OK (LAW )	Type of Flight Plan Filed:	None
Destination:	DALLAS , TX (ADS)	Type of Clearance:	None
Departure Time:	00:00 Local	Type of Airspace:	Class D

# **Airport Information**

Airport:	ADDISON AIRPARK ADS	Runway Surface Type:	Concrete
Airport Elevation:	643 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	15	IFR Approach:	None
Runway Length/Width:	7199 ft / 100 ft	VFR Approach/Landing:	Full stop

# Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	1 Serious	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Serious	Latitude, Longitude:	32.970981,-96.799797(est)

Page 3 of 4 FTW87LA159

#### **Administrative Information**

Investigator In Charge (IIC): Wilson, Ralph

Additional Participating Persons: MARCUS BELCHER; DALLAS , TX

Original Publish Date: August 31, 1988

Last Revision Date: Investigation Class: Class

Note: Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=22392

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

Page 4 of 4 FTW87LA159