



Aviation Investigation Final Report

Location:	West Chester, Pennsylvania	Accident Number:	ERA11CA460
Date & Time:	August 16, 2011, 14:00 Local	Registration:	N121RP
Aircraft:	Mooney M20R	Aircraft Damage:	Substantial
Defining Event:	Aerodynamic stall/spin	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot reported that, during an approach to the runway, the wind was gusting. As he reached the threshold, the stall warning horn sounded, and the airplane dropped to the runway then bounced. The pilot realized that the airplane was both airborne and slow, so he applied full takeoff power to initiate a go-around. The airplane encountered another gust and started to drop again as the stall warning horn sounded. The pilot retracted the landing gear in an attempt to climb, but the airplane impacted the runway and slid into the grass. An examination of the airplane revealed substantial damage to the firewall. The pilot reported that the wind was variable at 8 knots, gusting to 20 knots. The pilot reported no preaccident mechanical malfunctions or failures that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot did not maintain adequate airspeed during a go-around, which resulted in an aerodynamic stall.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Airspeed - Not attained/maintained
Aircraft	Angle of attack - Not attained/maintained

Factual Information

History of Flight

Landing-flare/touchdown	Stall warn/stick-shaker/pusher
Landing-flare/touchdown	Loss of lift
Landing-flare/touchdown	Aerodynamic stall/spin (Defining event)
Approach-VFR go-around	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Commercial	Age:	63, Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	March 18, 2011
Occupational Pilot:	No	Last Flight Review or Equivalent:	September 10, 2010
Flight Time:	(Estimated) 1849 hours (Total, all aircraft), 655 hours (Total, this make and model), 1747 hours (Pilot In Command, all aircraft), 47 hours (Last 90 days, all aircraft), 25 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Mooney	Registration:	N121RP
Model/Series:	M20R	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	29-0141
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	October 8, 2010 Annual	Certified Max Gross Wt.:	3374 lbs
Time Since Last Inspection:	105 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1246 Hrs at time of accident	Engine Manufacturer:	CONT MOTOR
ELT:	C91 installed, not activated	Engine Model/Series:	IO-550 SERIES
Registered Owner:	JOHN A ROSSI INC	Rated Power:	300 Horsepower
Operator:	JOHN A ROSSI INC	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	OQN,466 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	14:00 Local	Direction from Accident Site:	0°
Lowest Cloud Condition:	Scattered / 2500 ft AGL	Visibility	10 miles
Lowest Ceiling:	Broken / 2500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	8 knots / 20 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.95 inches Hg	Temperature/Dew Point:	26°C / 22°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Newport News, VA (PHF)	Type of Flight Plan Filed:	IFR
Destination:	West Chester, PA (N99)	Type of Clearance:	IFR
Departure Time:	13:00 Local	Type of Airspace:	

Airport Information

Airport:	Brandywine Airport N99	Runway Surface Type:	Asphalt
Airport Elevation:	466 ft msl	Runway Surface Condition:	Dry
Runway Used:	09	IFR Approach:	Visual
Runway Length/Width:	3347 ft / 50 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	39.98722,-75.575553(est)

Administrative Information

Investigator In Charge (IIC):	Alleyne, Eric
Additional Participating Persons:	Philip E Stauffer; FAA/FSDO; Philadelphia, PA
Original Publish Date:	March 27, 2012
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=81526

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