

Aviation Investigation Final Report

Location:	STONEVILLE, North	Carolina	Accident Number:	MIA99LA211
Date & Time:	August 1, 1999, 10:2	26 Local	Registration:	N9169E
Aircraft:	Mooney	M-20R	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 None
Flight Conducted Under:	Part 91: General avia	ation - Personal		

Analysis

The pilot stated that he proceeded to Rockingham County Shiloh Airport to practice landings before going on to Greensboro, North Carolina. During the second landing, the aircraft bounced twice, and upon the subsequent go-around attempt he lost directional control and the aircraft struck hangars and was substantially damaged.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the pilot's failure to maintain airspeed, and adequately compensate for torque and P-factor, resulting in the loss of directional control, collision with hangars, and substantial damage to the aircraft during the attempted go around/recovery from a landing.

Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT Phase of Operation: GO-AROUND (VFR)

Findings

- 1. (C) RECOVERY FROM BOUNCED LANDING INADEQUATE PILOT IN COMMAND
- 2. GO-AROUND INITIATED PILOT IN COMMAND
- 3. (C) AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 4. (C) TORQUE/P-FACTOR MISJUDGED PILOT IN COMMAND
- 5. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: GO-AROUND (VFR)

Findings 6. OBJECT - HANGAR/AIRPORT BUILDING

Factual Information

On August 1, 1999, about 1026 eastern daylight time, a Mooney M-20R, N9169E, registered to a private owner, operated as a 14 CFR Part 91 personal flight, crashed on landing at Rockingham County Shiloh Airport, Stoneville, North Carolina. Visual meteorological conditions prevailed and no flight plan was filed. The airplane was substantially damaged, but there were no injuries. The flight originated from Moneta, Virginia, the same day, about 0930, and was proceeding to Greensboro, North Carolina, at the time of the accident.

The pilot stated that he decided to practice landings at Rockingham County Shiloh Airport before going on to Greensboro, North Carolina. The first landing was uneventful, but during the second landing, the aircraft bounced twice. When full power was applied to initiate the go around after the second bounce, the pilot stated that he lost directional control and the aircraft banked to the left, collided with hangars, and incurred substantial damage.

Certificate:	Private	Age:	52,Male
Airplane Rating(s):	Single-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 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	February 2, 1999
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	426 hours (Total, all aircraft), 18 hours (Total, this make and model), 362 hours (Pilot In Command, all aircraft), 18 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Pilot Information

Aircraft and Owner/Operator Information

Aircraft Make:	Mooney	Registration:	N9169E
Model/Series:	M-20R M-20R	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	29-0149
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	April 22, 1999 Annual	Certified Max Gross Wt.:	3368 lbs
Time Since Last Inspection:	8 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	89 Hrs	Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	IO-550G
Registered Owner:	MICHAEL D. BROCK	Rated Power:	280 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Viewel (VMC)	Condition of Light:	Devi
Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	GSO ,926 ft msl	Distance from Accident Site:	21 Nautical Miles
Observation Time:	11:35 Local	Direction from Accident Site:	205°
Lowest Cloud Condition:	Scattered / 13000 ft AGL	Visibility	9 miles
Lowest Ceiling:	Broken / 25000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	300°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	31°C / 23°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	MONETA , VA (W91)	Type of Flight Plan Filed:	None
Destination:	GREENSBORO , NC (GSO)	Type of Clearance:	None
Departure Time:	09:30 Local	Type of Airspace:	Class G

Airport Information

Airport:	ROCKINGHAM COUNTY SHILOH N45	Runway Surface Type:	Asphalt
Airport Elevation:	693 ft msl	Runway Surface Condition:	Dry
Runway Used:	31	IFR Approach:	None
Runway Length/Width:	5199 ft / 100 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:	36.460968,-79.900901(est)

Administrative Information

Investigator In Charge (IIC):	Lovell, John	
Additional Participating Persons:	TONY W BERNHARDT; WINSTON-SALEM , NC	
Original Publish Date:	September 12, 2000	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=46956	

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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 <u>here</u>.