

Aviation Investigation Final Report

Location:	BELVIDERE, Illinois		Accident Number:	CHI87LA020
Location.	DELVIDERE, IIIIIOIS		Accident Number.	CH167LA020
Date & Time:	November 8, 1986, 0	7:30 Local	Registration:	N6096C
Aircraft:	CESSNA	310R	Aircraft Damage:	Substantial
Defining Event:			Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Instructional			

Analysis

DURING TAKEOFF ROLL, THE ACFT DOOR POPPED OPEN AT A POINT TOO LATE TO ABORT THE TAKEOFF. THE PIC TRIED TO HOLD THE DOOR CLOSED WHILE THE SECOND PLT FLEW THE ACFT AROUND THE TRAFFIC PATTERN. JUST PRIOR TO TOUCHDOWN, THE DOOR OPENED WIDER AND THE PIC REACHED TO TRY TO CLOSE IT. THE ACFT ROLLED TO THE RIGHT HITTING THE RWY WITH THE RIGHT MAIN FUEL TANK AND PROPELLER. WINDS WERE REPORTED FROM 220 DEGS AT 15 KTS GUSTING TO 25 KTS.

Probable Cause and Findings

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

Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation: TAKEOFF

Findings 1. (F) DOOR - OPEN

Occurrence #2: LOSS OF CONTROL - IN FLIGHT Phase of Operation: LANDING - FLARE/TOUCHDOWN Findings

(F) WEATHER CONDITION - CROSSWIND
(F) WEATHER CONDITION - GUSTS
(C) COMPENSATION FOR WIND CONDITIONS - POOR - DUAL STUDENT
(F) DIVERTED ATTENTION - PILOT IN COMMAND(CFI)

Occurrence #3: DRAGGED WING, ROTOR, POD, FLOAT OR TAIL/SKID Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

6. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - DUAL STUDENT

7. (F) DIVERTED ATTENTION - DUAL STUDENT

8. (C) REMEDIAL ACTION - NOT PERFORMED - PILOT IN COMMAND(CFI)

Factual Information

Pilot Information

Certificate:	Airline transport; Flight instructor	Age:	43,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	Glider	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical–no waivers/lim.	Last FAA Medical Exam:	April 22, 1986
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	8600 hours (Total, all aircraft), 265 hours (Total, this make and model), 8200 hours (Pilot In Command, all aircraft), 182 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N6096C
Model/Series:	310R 310R	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	310R1263
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	100 hour	Certified Max Gross Wt.:	5500 lbs
Time Since Last Inspection:	82 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	2808 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	IO-520-M
Registered Owner:	RICHARD GLASER	Rated Power:	285 Horsepower
Operator:	MST AVIATION	Operating Certificate(s) Held:	On-demand air taxi (135)
Operator Does Business As:		Operator Designator Code:	СНОА

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
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Observation Facility, Elevation:	RFD ,736 ft msl	Distance from Accident Site:	14 Nautical Miles
Observation Time:	07:50 Local	Direction from Accident Site:	240°
Lowest Cloud Condition:	Scattered / 10000 ft AGL	Visibility	15 miles
Lowest Ceiling:	Overcast / 25000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	15 knots / 25 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	220°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	8°C / -3°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	IFR
Destination:		Type of Clearance:	None
Departure Time:	07:25 Local	Type of Airspace:	Class G

Airport Information

Airport:	BELVIDERE LTD C77	Runway Surface Type:	Asphalt
Airport Elevation:	850 ft msl	Runway Surface Condition:	Dry
Runway Used:	30	IFR Approach:	None
Runway Length/Width:	3877 ft / 50 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	42.249317,-88.84095(est)

Administrative Information

Investigator In Charge (IIC):	Dinwiddie, Carl	
Additional Participating Persons:	SUSAN M TROKA; DES PLAINES , IL GLENN CHANEY; DES PLAINES , IL	
Original Publish Date:		
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=13688	

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