



National Transportation Safety Board Aviation Accident Final Report

Location:	MARION, IN	Accident Number:	CHI87LA145
Date & Time:	06/02/1987, 1900 EST	Registration:	N2180R
Aircraft:	PIPER PA-28-180	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None

Flight Conducted Under: Part 91: General Aviation - Instructional

Analysis

AS THE STUDENT PLT WAS MAKING A X-WIND TAKEOFF ON A DUAL INSTRUCTIONAL FLT, THE INSTRUCTOR (CFI) REDUCED THE POWER AT ABOUT 15 FT AGL TO SIMULATE AN ENG FAILURE. THE STUDENT REACTED BY RAISING THE NOSE OF THE ACFT, BUT THE INSTRUCTOR CORRECTED THIS BY LOWERING THE NOSE. HOWEVER, DRG THE ABORTED TAKEOFF, THE STUDENT TURNED THE ACFT INTO THE X-WIND. SUBSEQUENTLY, IT VEERED OFF THE RGT SIDE OF THE RWY & STRUCK A RWY LIGHT.

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: TAKEOFF

Findings

1. EMERGENCY PROCEDURE - SIMULATED - PILOT IN COMMAND(CFI)
2. ABORTED TAKEOFF - PERFORMED
3. (F) FLARE - IMPROPER - DUAL STUDENT
4. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - DUAL STUDENT
5. (C) GROUND LOOP/SWERVE - INADVERTENT - DUAL STUDENT
6. (C) SUPERVISION - IMPROPER - PILOT IN COMMAND(CFI)

Occurrence #2: ON GROUND/WATER COLLISION WITH OBJECT
Phase of Operation: TAKEOFF

Findings

7. (F) OBJECT - RUNWAY LIGHT

Factual Information

Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	41, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane Single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	03/16/1987
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1968 hours (Total, all aircraft), 320 hours (Total, this make and model), 1822 hours (Pilot In Command, all aircraft), 21 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N2180R
Model/Series:	PA-28-180 PA-28-180	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	28-5479
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	01/28/1987, Annual	Certified Max Gross Wt.:	2175 lbs
Time Since Last Inspection:	97 Hours	Engines:	1 Reciprocating
Airframe Total Time:	1720 Hours	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-360-A4A
Registered Owner:	BLUE WANDERERS, INC.	Rated Power:	150 hp
Operator:	BLUE WANDERERS, INC.	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	IND, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	1851 EST	Direction from Accident Site:	0°
Lowest Cloud Condition:	Unknown / 9000 ft agl	Visibility	5 Miles
Lowest Ceiling:	Overcast / 9000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	9 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	340°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	20° C / 18° C
Precipitation and Obscuration:			
Departure Point:	(MZZ)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1900 EST	Type of Airspace:	Class G

Airport Information

Airport:	MARION (MZZ)	Runway Surface Type:	Asphalt
Airport Elevation:	858 ft	Runway Surface Condition:	Dry
Runway Used:	22	IFR Approach:	None
Runway Length/Width:	5200 ft / 100 ft	VFR Approach/Landing:	

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	AMY C CARMEN	Report Date:	10/25/1988
Additional Participating Persons:	G BLACKMAN; INDIANAPOLIS, IN		
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 pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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](#).