



Aviation Investigation Final Report

Location:	BURLINGTON, Iowa	Accident Number:	CHI91LA114
Date & Time:	March 21, 1991, 14:35 Local	Registration:	N26009
Aircraft:	PIPER PA-38-112	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

DUAL STUDENT PILOT WAS ATTEMPTING TO LAND WITH CROSSWIND 40 DEGREES TO THE RIGHT OF RUNWAY HEADING, AND WIND OF 15 GUSTING TO 25 KNOTS REPORTED BY THE FLIGHT INSTRUCTOR. AT APPROXIMATELY 15 FEET AGL A GUST WAS ENCOUNTERED WHICH RESULTED IN LOSS OF 15 KNOTS AIRSPEED, AND AIRCRAFT BEGAN TO DRIFT TO THE LEFT AND DEVELOP SINK RATE. FLIGHT INSTRUCTOR TOOK CONTROL AND INITIATED GO-AROUND BUT AIRCRAFT STRUCK VASI LIGHTS AND MADE HARD LANDING TO THE LEFT OF THE RUNWAY.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: DELAYED INITIATION OF REMEDIAL ACTION BY THE FLIGHT INSTRUCTOR. FACTORS RELATED TO THE ACCIDENT ARE GUSTY CROSSWINDS, INADEQUATE COMPENSATION FOR WIND CONDITIONS AND NOT MAINTAINING AIRSPEED BY THE STUDENT PILOT, AND COMPLACENCY BY THE INSTRUCTOR.

Findings

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (F) WEATHER CONDITION - CROSSWIND

2. (F) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - DUAL STUDENT
3. (F) COMPLACENCY - PILOT IN COMMAND(CFI)
4. (F) WEATHER CONDITION - GUSTS
5. (F) AIRSPEED - NOT MAINTAINED - DUAL STUDENT
6. (C) REMEDIAL ACTION - DELAYED - PILOT IN COMMAND(CFI)

Occurrence #2: HARD LANDING
Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	46, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical-w/ waivers/lim	Last FAA Medical Exam:	May 10, 1990
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	1544 hours (Total, all aircraft), 65 hours (Total, this make and model), 1302 hours (Pilot In Command, all aircraft), 140 hours (Last 90 days, all aircraft), 48 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N26009
Model/Series:	PA-38-112 PA-38-112	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal; Utility	Serial Number:	38-81A0098
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	January 2, 2000 Unknown	Certified Max Gross Wt.:	1670 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	O-235-LCZ
Registered Owner:		Rated Power:	112 Horsepower
Operator:	REMMERS AVIATION	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	BRL ,698 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	14:50 Local	Direction from Accident Site:	1°
Lowest Cloud Condition:	Clear	Visibility	15 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	13 knots / 18 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	220°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	25°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	13:50 Local	Type of Airspace:	

Airport Information

Airport:	BURLINGTON MUNI BRL	Runway Surface Type:	Asphalt
Airport Elevation:	698 ft msl	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	5491 ft / 150 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:	40.800052,-91.120018(est)

Administrative Information

Investigator In Charge (IIC):	Doub, Mark
Additional Participating Persons:	MIKE ROECH; DES MOINES , IA
Original Publish Date:	February 8, 1993
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=15028

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