



Aviation Investigation Final Report

Location:	HILLSBORO, Oregon	Accident Number:	SEA82DA171
Date & Time:	September 21, 1982, 18:00 Local	Registration:	N6377A
Aircraft:	PIPER PA-38-112	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

THE DUAL STUDENT WAS EXECUTING TOUCH AND GO LANDINGS. DURING THE TAKEOFF, AT AN ALTITUDE OF APPROXIMATELY 20 FT AGL, THE INSTRUCTOR REDUCED POWER SIMULATING AN ENGINE FAILURE. THE STUDENT PILOT MAINTAINED A NOSE HIGH ATTITUDE AND THE AIRCRAFT LANDED HARD ON THE RUNWAY.

Probable Cause and Findings

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

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - NONMECHANICAL
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (F) EMERGENCY PROCEDURE - INITIATED - PILOT IN COMMAND(CFI)

Occurrence #2: HARD LANDING
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

2. (C) AIRSPEED - NOT MAINTAINED - DUAL STUDENT

3. (C) FLARE - IMPROPER - DUAL STUDENT
4. (F) SUPERVISION - IMPROPER - PILOT IN COMMAND(CFI)

Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	30, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	April 15, 1982
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	717 hours (Total, all aircraft), 3 hours (Total, this make and model), 600 hours (Pilot In Command, all aircraft), 7 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N6377A
Model/Series:	PA-38-112 PA-38-112	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	3878A0401
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	3600 lbs
Time Since Last Inspection:	3 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1154 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed	Engine Model/Series:	O-235-L2C
Registered Owner:	HEES ENTERPRISES, INC.	Rated Power:	112 Horsepower
Operator:	HEES ENTERPRISES, INC.	Operating Certificate(s) Held:	
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:	HIO	Distance from Accident Site:	
Observation Time:	17:49 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	45 miles
Lowest Ceiling:	Unknown	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	40°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	72°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	HILLSBORO , OR (HIO)	Type of Flight Plan Filed:	None
Destination:	HILLSBORO , OR (HIO)	Type of Clearance:	
Departure Time:	17:55 Local	Type of Airspace:	

Airport Information

Airport:	PORTLAND-HILLSBORO HIO	Runway Surface Type:	Asphalt
Airport Elevation:	0 ft msl	Runway Surface Condition:	Dry
Runway Used:	30	IFR Approach:	None
Runway Length/Width:	6600 ft / 150 ft	VFR Approach/Landing:	None

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:	45.440357,-122.960083(est)

Administrative Information

Investigator In Charge (IIC):

Additional Participating Persons:

Original Publish Date: September 21, 1983

Last Revision Date:

Investigation Class: [Class](#)

Note:

Investigation Docket: <https://data.nts.gov/Docket?ProjectID=71029>

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

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 [here](#).