



Aviation Investigation Final Report

Location: SOD, West Virginia Accident Number: BF091FA078

Date & Time: August 31, 1991, 19:40 Local Registration: N5435Y

Aircraft: PIPER PA-23-250 Aircraft Damage: Destroyed

Defining Event: 1 Fatal

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

THE PILOT WAS EN ROUTE WHEN HE RADIOED AIR TRAFFIC CONTROL HE LOST POWER IN ONE OF THE ENGINES. ATC LOST RADIO CONTACT WITH THE PILOT SOON AFTERWARDS. WITNESSES REPORTED THE AIRPLANE CIRCLED AND THEN LANDED IN A FIELD. THE AIRPLANE LANDED HARD AND THEN ROLLED OVER. COLLAPSING THE FUSELAGE. THE EXAMINATION OF THE AIRPLANE REVEALED ROTATIONAL DAMAGE TO THE RIGHT PROPELLER, AND RELATIVELY NO DAMAGE TO THE LEFT PROPELLER. AN INSPECTION OF THE RIGHT ENGINE REVEALED FUEL IN THE FUEL PUMP AND FUEL INJECTOR UNIT; HOWEVER, THE SAME COMPONENTS OF THE LEFT ENGINE WERE ABSENT OF FUEL. THE LEAKAGE OF FUEL FROM THE FUEL TANKS ASSOCIATED WITH THE AIRPLANE DAMAGE PRECLUDED DETERMINATION OF THE FUEL ABOARD WHEN THE ACCIDENT OCCURRED.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE IMPROPER LEVEL OFF WHICH RESULTED IN A HARD LANDING. CONTRIBUTING WAS FUEL STARVATION RESULTING IN PARTIAL LOSS OF ENGINE POWER.

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - NONMECHANICAL

Phase of Operation: CRUISE

Findings

1. 1 ENGINE

2. (F) FLUID, FUEL - STARVATION

3. (C) IN-FLIGHT PLANNING/DECISION - INADEQUATE - PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: HARD LANDING Phase of Operation: LANDING

Findings

4. (C) LEVEL OFF - INADEQUATE - PILOT IN COMMAND

Page 2 of 5 BF091FA078

Factual Information

Pilot Information

Certificate:	Private	Age:	Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Unknown Unknown	Last FAA Medical Exam:	
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	800 hours (Total, all aircraft), 38 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N5435Y
Model/Series:	PA-23-250 PA-23-250	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	January 2, 2000 Annual	Certified Max Gross Wt.:	5200 lbs
Time Since Last Inspection:		Engines:	2 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	IO-540
Registered Owner:	ARTHUR G. MALONE	Rated Power:	250 Horsepower
Operator:	ARTHUR G. MALOONE	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Page 3 of 5 BF091FA078

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	HTS ,1828 ft msl	Distance from Accident Site:	999 Nautical Miles
Observation Time:	20:13 Local	Direction from Accident Site:	
Lowest Cloud Condition:		Visibility	4 miles
Lowest Ceiling:	Broken / 5000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	20°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	29°C / 22°C
Precipitation and Obscuration:	No Obscuration; No Precip	tation	
Departure Point:	HUNTINGTON , WV (HTG)	Type of Flight Plan Filed:	None
Destination:	CHARLESTON , WV (CRV	√ Type of Clearance:	None
Departure Time:	19:38 Local	Type of Airspace:	

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Fatal	Latitude, Longitude:	38.260509,-81.879249(est)

Page 4 of 5 BF091FA078

Administrative Information

Investigator In Charge (IIC): Jones, Dennis

Additional Participating DAVE BURGESS; CHARLESTON , WV

Persons:

Original Publish Date: August 13, 1993

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=11631

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.

Page 5 of 5 BF091FA078