



Aviation Investigation Final Report

Location: MOUNT PLEASANT, Tennessee Accident Number: ATL86FA085

Date & Time: March 4, 1986, 07:35 Local Registration: N861K

Aircraft: BEECH BE-90 Aircraft Damage: Substantial

Defining Event: 9 None

Flight Conducted Under: Part 135: Air taxi & commuter - Non-scheduled

Analysis

ON FINAL APPROACH THE CREW TURNED THE AIRCRAFT CABIN ENVIRONMENTAL CONTROL FROM THE AUTO MODE TO THE OFF POSITION. SHORTLY THEREAFTER, THE COCKPIT AND CABIN BEGAN TO FILL WITH SMOKE. THE OCCUPANT OF THE COPILOTS SEAT FELT HEAT AROUND HIS FEET. A NORMAL LANDING WAS MADE AND THE PASSENGERS AND CREW EXITED THE AIRCRAFT WITH OUT INJURY. EXAMINATION SHOWED THAT THE FIBERGLASS DUCTING ON TOP OF THE HEATER PELEUM CHAMBER HAD CAUGHT FIRE. A HOLE WAS BURNED THROUGHT THE PRESSURE BULKHEAD INTO THE AVIONICS COMPARTMENT.

Probable Cause and Findings

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

Findings

Occurrence #1: FIRE

Phase of Operation: APPROACH - VFR PATTERN - FINAL APPROACH

Findings

- 1. AIR COND/HEATING/PRESSURIZATION OVERTEMPERATURE
- 2. (C) REASON FOR OCCURRENCE UNDETERMINED
- 3. (F) FUEL SYSTEM, FUEL SHUTOFF LOW COMPRESSION

- 4. (F) AIR COND/HEATING/PRESSURIZATION, CABIN TEMP CONTROL SWITCHED OFF 5. (F) FUSELAGE, INSTRUMENT/ELECTRICAL PANEL BURNED

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Factual Information

Pilot Information

Certificate:	Airline transport; Commercial; Flight instructor	Age:	38,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Helicopter	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	January 29, 1986
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:			

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Aircraft and Owner/Operator Information

Aircraft Make:	BEECH	Registration:	N861K
Model/Series:	BE-90 BE-90	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	LJ-471
Landing Gear Type:	Retractable - Tricycle	Seats:	10
Date/Type of Last Inspection:	October 15, 1985 100 hour	Certified Max Gross Wt.:	9650 lbs
Time Since Last Inspection:	64 Hrs	Engines:	2 Turbo prop
Airframe Total Time:	3781 Hrs	Engine Manufacturer:	P&W
ELT:	Installed, not activated	Engine Model/Series:	PT6 A-20
Registered Owner:	THE E. RANDEL CO.	Rated Power:	550 Horsepower
Operator:	STEVENS AVIATION,INC.	Operating Certificate(s) Held:	On-demand air taxi (135)
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:	BNA ,599 ft msl	Distance from Accident Site:	42 Nautical Miles
Observation Time:	06:46 Local	Direction from Accident Site:	40°
Lowest Cloud Condition:	Unknown	Visibility	5 miles
Lowest Ceiling:	Overcast / 4000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	290°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	4°C
Precipitation and Obscuration:	N/A - None - Haze		
Departure Point:	LOUISVILLE , KY (LOU)	Type of Flight Plan Filed:	IFR
Destination:	COLUMBIA , TN (MRC)	Type of Clearance:	None
Departure Time:	07:34 Local	Type of Airspace:	Class G

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Airport Information

Airport:	MAURY COUNTY AIRPORT MRC	Runway Surface Type:	Asphalt
Airport Elevation:	677 ft msl	Runway Surface Condition:	Dry
Runway Used:	23	IFR Approach:	None
Runway Length/Width:	5003 ft / 75 ft	VFR Approach/Landing:	Straight-in

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	7 None	Aircraft Fire:	Both in-flight and on-ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	9 None	Latitude, Longitude:	35.619346,-87.039199(est)

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Administrative Information

Investigator In Charge (IIC): Fouts, Charles Additional Participating BERNARD K DEESE; NASHVILLE , TN J HARDMAN, JR.; WICHITA Persons: . KS STEVE G GREER; OSCAR C TIDWELL: LAKELAND .FL **Original Publish Date: Last Revision Date:** Investigation Class: Class Note: **Investigation Docket:** https://data.ntsb.gov/Docket?ProjectID=6930

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.

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