

National Transportation Safety Board Aviation Accident Final Report

Location: EVART, MI Accident Number: CHI83FA381

Date & Time: 08/11/1983, 1745 EDT Registration: N400NA

Aircraft: BEECH G18S Aircraft Damage: Destroyed

Defining Event: 2 Fatal

Flight Conducted Under: Part 135: Air Taxi & Commuter - Non-scheduled

Analysis

THE ACFT COLLIDED WITH A UTILITY POLE AND A LARGE TREE DURING A FORCED LANDING AFTER A POWER LOSS ON TAKEOFF. WITNESSES HEARD THE ACFT BACKFIRING AND THE GROUND RUN WAS EXCESSIVELY LONG. IMMEDIATELY AFTER TAKEOFF THE ACFT WENT THROUGH THE TOPS OF PINE TREES. THE BACKFIRING AND SMOKE STOPPED AFTER THE COLLISION WITH THE PINE TREES AND THE ACFT STARTED A DESCENT TOWARD A STREET. IT MANEUVERED AS IF TO AVOID A COLLISION WITH CARS. AFTER THE ACCIDENT THE SPARK PLUGS FROM THE RIGHT ENGINE WERE TESTED AND ALL BUT #5 FRONT PLUG WOULD NOT SPARK. HOWEVER DURING A SUBSEQUENT TEST THE SPARK PLUGSPLUGS, WITH THE EXCEPTION OF #5, DID TEST PROPERLY. A COMPLETE ENGINE TEARDOWN DID NOT REVEAL EVIDENCE OF MECHANICAL FAILURE OR PRE-IMPACT ENGINE DISCREPANCY.

Probable Cause and Findings

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

Findings

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (F) OBJECT - TREE(S)

2. (C) REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2: FORCED LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

3. (F) OBJECT - UTILITY POLE

4. (F) TERRAIN CONDITION - HIGH OBSTRUCTION(S)

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Factual Information

Pilot Information

Certificate:	Airline Transport; Flight Instructor	Age:	40, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):		Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine	Toxicology Performed:	Yes
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	11/26/1982
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	8000 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BEECH	Registration:	N400NA
Model/Series:	G18S G18S	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	BA 591
Landing Gear Type:	Retractable - Tailwheel	Seats:	2
Date/Type of Last Inspection:	07/05/1983, Annual	Certified Max Gross Wt.:	10100 lbs
Time Since Last Inspection:	89 Hours	Engines:	2 Reciprocating
Airframe Total Time:	13983 Hours	Engine Manufacturer:	P&W
ELT:	Installed, not activated	Engine Model/Series:	R-985-AN14B
Registered Owner:	NORTHERN AIR SERVICES, INC.	Rated Power:	450 hp
Operator:	NORTHERN AIR SERVICES, INC.	Operating Certificate(s) Held:	On-demand Air Taxi (135)

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	5 Miles
Lowest Ceiling:	Broken / 3200 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	20 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	45°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	21°C / 13°C
Precipitation and Obscuration:			
Departure Point:		Type of Flight Plan Filed:	None
Destination:	KENOSHA, WI (ENW)	Type of Clearance:	None
Departure Time:	1745 EDT	Type of Airspace:	Class G

Airport Information

Airport:	EVART MUNI (9C8)	Runway Surface Type:	Asphalt
Airport Elevation:	1020 ft	Runway Surface Condition:	Dry
Runway Used:	6	IFR Approach:	None
Runway Length/Width:	2825 ft / 50 ft	VFR Approach/Landing:	Forced Landing

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	FRED	A RATHKE, JR.	Report Date:
Additional Participating Persons:			
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 publing@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.ntsb.gov/pubdms/ .		

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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.

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