



National Transportation Safety Board Aviation Accident Final Report

Location:	CHICAGO, IL	Accident Number:	CHI86FA233
Date & Time:	09/28/1986, 2254 CDT	Registration:	N101VE
Aircraft:	BEECH E18S	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	1 Fatal
Flight Conducted Under:	Part 135: Air Taxi & Commuter - Non-scheduled		

Analysis

THE ACFT HAD DEPARTED ON RNWY 13. HE WAS THEN DIRECTED TO CLIMB TO 6000 FT. THIRTY SECONDS LATER HE ADVISED HE HAD ENG TROUBLE AND WAS RETURNING TO THE ARPT. SHORTLY THEREAFTER HE ADVISED HE COULD NOT MAINTAIN ALT. THE ACFT, ONE MILE SE OF THE ARPT, STRUCK THE ROOFS OF TWO FAMILY TYPE RESIDENCES. THEN STRUCK TWO GARAGES, GROUND IMPACTED AND STRUCK THE REAR AREA OF A THIRD RESIDENCE. AN INTENSE FIRE FOLLOWED. LEFT ENG HAD IMPELLER FAILURE. PROP WAS PITCHED BETWEEN LOW AND HIGH RPM.

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(TOTAL) - MECH FAILURE/MALF
Phase of Operation: CLIMB - TO CRUISE

Findings

1. (F) ENG ASSEMBLY,BLOWER/IMPELLER/INTEGRAL SUPERCHARGER - FAILURE,TOTAL
2. (F) LUBRICATING SYSTEM - LACK OF

Occurrence #2: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation: DESCENT - EMERGENCY

Findings

3. (C) PROPELLER SYSTEM/ACCESSORIES,FEATHERING SYSTEM - INCORRECT
4. PROPELLER FEATHERING - ATTEMPTED - PILOT IN COMMAND
5. (C) PROPELLER SYSTEM/ACCESSORIES,FEATHERING SYSTEM - MOVEMENT RESTRICTED

Occurrence #3: FORCED LANDING
Phase of Operation: DESCENT - EMERGENCY

Occurrence #4: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: DESCENT - EMERGENCY

Findings

6. (C) OBJECT - RESIDENCE

Occurrence #5: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Airline Transport; Flight Instructor	Age:	53, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane	Toxicology Performed:	Yes
Medical Certification:	Class 1 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	10/15/1985
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	6400 hours (Total, all aircraft), 2059 hours (Total, this make and model), 5505 hours (Pilot In Command, all aircraft), 275 hours (Last 90 days, all aircraft), 75 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BEECH	Registration:	N101VE
Model/Series:	E18S E18S	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	BA109
Landing Gear Type:	Retractable - Tailwheel	Seats:	2
Date/Type of Last Inspection:	09/01/1986, AAIP	Certified Max Gross Wt.:	10100 lbs
Time Since Last Inspection:	36 Hours	Engines:	2 Reciprocating
Airframe Total Time:	17743 Hours	Engine Manufacturer:	P&W
ELT:	Installed, not activated	Engine Model/Series:	985-AN14B
Registered Owner:	VIKING EXPRESS, INC.	Rated Power:	450 hp
Operator:	VIKING EXPRESS, INC.	Operating Certificate(s) Held:	Air Cargo; On-demand Air Taxi (135)
Operator Does Business As:		Operator Designator Code:	CHRA

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	MDW, 617 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	2305 CDT	Direction from Accident Site:	330°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	8 Miles
Lowest Ceiling:	Broken / 4000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	12 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	160°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	21° C / 17° C
Precipitation and Obscuration:			
Departure Point:	CHICAGO, IL (MDW)	Type of Flight Plan Filed:	IFR
Destination:	COVINGTON, KY (CVG)	Type of Clearance:	IFR
Departure Time:	2250 CDT	Type of Airspace:	Class D

Airport Information

Airport:	MIDWAY (MDW)	Runway Surface Type:	
Airport Elevation:	619 ft	Runway Surface Condition:	
Runway Used:	13	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced Landing; Straight-in

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Fatal	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	EDWARD J MCAVOY	Report Date:	08/11/1988
Additional Participating Persons:	D. CARAVELLA; WEST CHICAGO, IL J. WARD; WICHITA, KS G. STAUB; WICHITA, KS D. BRIGHAM; WEST CHICAGO, IL		
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 pubinquiry@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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