

National Transportation Safety Board Aviation Accident Final Report

Location: CHICAGO, IL Accident Number: CHI87FA176

Date & Time: 07/20/1987, 2219 CDT Registration: N3742C

Aircraft: CESSNA 402B Aircraft Damage: Destroyed

Defining Event: Injuries: 1 Fatal

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

Analysis

ON INITIAL CLIMB THE PILOT REPORTED 'JUST LOST ONE', FOLLOWED BY A LOSS OF CONTROL AND DESCENT INTO A RESIDENTIAL AREA. SUBSEQUENT INVESTIGATION REVEALED A LOOSE CONNECTION BETWEEN THE LEFT ENGINE THROTTLE SERRATED WASHER AND THE SERRATED SHAFT. THE ENGINE HAD BEEN REMOVED AND REINSTALED A FEW FLIGHT HOURS PRIOR TO THE OCCURRENCE.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: FAILURE OF MAINTENANCE PERSONNEL TO PERFORM PROPER INSTALLATION OF THE LEFT THROTTLE LINKAGE.

Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) INDUCTION AIR CONTROL, LINKAGE - LOOSE

2. (C) MAINTENANCE, INSTALLATION - IMPROPER - OTHER MAINTENANCE PERSONNEL

Occurrence #2: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: TAKEOFF

Findings

3. (C) PROPELLER FEATHERING - NOT PERFORMED - PILOT IN COMMAND

4. (C) AIRSPEED(VMC) - DISREGARDED - PILOT IN COMMAND

5. (F) LIGHT CONDITION - DARK NIGHT

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Findings

6. OBJECT - WIRE, STATIC

7. OBJECT - BUILDING(NONRESIDENTIAL)

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Factual Information

Pilot Information

Certificate:	Airline Transport; Flight Instructor	Age:	33, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	Glider	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Glider; Instrument Airplane	Toxicology Performed:	Yes
Medical Certification:	Class 1 Valid Medicalw/waivers/lim.	Last FAA Medical Exam:	10/03/1986
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	3200 hours (Total, all aircraft), 2800	hours (Pilot In Command, all aircraft	

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N3742C
Model/Series:	402B 402B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	402B0600
Landing Gear Type:	Retractable - Tricycle	Seats:	2
Date/Type of Last Inspection:	12/12/1986, Continuous Airworthiness	Certified Max Gross Wt.:	6300 lbs
Time Since Last Inspection:	78 Hours	Engines:	2 Reciprocating
Airframe Total Time:	2597 Hours	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	TSIO-520-E8B
Registered Owner:	AIR MARYLAND	Rated Power:	300 hp
Operator:	AIR MARYLAND	Operating Certificate(s) Held:	None
Operator Does Business As:	BUFFALO EXPRESS	Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	MDW, 619 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	2219 CDT	Direction from Accident Site:	220°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	7 Miles
Lowest Ceiling:	Overcast / 5500 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	60°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	21°C / 19°C
Precipitation and Obscuration:			
Departure Point:	CHICAGO, IL (MDW)	Type of Flight Plan Filed:	IFR
Destination:	KANSAS CITY, MO (MKC)	Type of Clearance:	VFR
Departure Time:	2218 CDT	Type of Airspace:	Class D

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:	11/15/1989
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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