



National Transportation Safety Board Aviation Accident Final Report

Location:	SAVANNAH, GA	Accident Number:	ATL83AA059
Date & Time:	12/11/1982, 0025 EST	Registration:	N8001Q
Aircraft:	CESSNA 421B	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	4 Fatal

Flight Conducted Under: Part 91: General Aviation - Business

Analysis

PLT REPORTED HE WAS ON A MISSED APPROACH & WAS RETURNING TO CHARLESTON "HEADING 360 DEGREES..." THE ACFT CRASHED ABOUT 1/4 MI SOUTH & 100 FT SHORT OF THE DEPARTURE END OF RWY 27. THE WRECKAGE SCATTER PATTERN WAS ORIENTED ON A HEADING OF 155 DEG. MISSED APPROACH PROCEDURES SPECIFY A CLIMBING RIGHT TURN VIA A 325 DEG HEADING. THE LEFT ENG PROP DRIVE GEAR SHAFT HAD EVIDENCE OF BOTH BENDING & TORSIONAL FAILURE LOADS. THERE WAS NO EVIDENCE OF MACHINING OR ROTATIONAL SMEARING. 2 OF THE 3 PROP BLADE TIPS WERE BENT AFT ABOUT THE BLADE FACE. THE LEFT TURBOCHARGER HAD A TENSION FAILURE OF THE TURBINE WHEEL SHAFT. NO SMEAR MARKS WERE NOTED ON THE FRACTURE FACE. SINGLE TURBINE BLADE IMPACT MARKS WERE NOTED ON THE HOUSING. THE #1 TACH NEEDLE INDICATED 900 RPM & THE #2 TACH NEEDLE INDICATED 1900 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

Phase of Operation: MISSED APPROACH (IFR)

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: MISSED APPROACH (IFR)

Findings

2. (F) LIGHT CONDITION - DARK NIGHT

3. (F) WEATHER CONDITION - LOW CEILING

4. (F) WEATHER CONDITION - FOG

5. (F) WEATHER CONDITION - BELOW APPROACH/LANDING MINIMUMS

6. (F) MISSED APPROACH - PERFORMED - PILOT IN COMMAND

7. (C) AIRCRAFT HANDLING - NOT POSSIBLE - PILOT IN COMMAND

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: MISSED APPROACH (IFR)

Factual Information

Pilot Information

Certificate:	Airline Transport; Flight Instructor; Commercial	Age:	35, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Unknown
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane	Toxicology Performed:	
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	02/09/1982
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	3300 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N8001Q
Model/Series:	421B 421B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:		Serial Number:	421B-0001
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	7200 lbs
Time Since Last Inspection:	0 Hours	Engines:	2 Reciprocating
Airframe Total Time:		Engine Manufacturer:	CONTINENTAL
ELT:	Installed	Engine Model/Series:	GTSIO-520-H1B
Registered Owner:	CAREY HILLIARD'S RESTAURANTS	Rated Power:	375 hp
Operator:	CAREY HILLIARD'S RESTAURANTS	Operating Certificate(s) Held:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	SAV, 0 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	0033	Direction from Accident Site:	45°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	2 Miles
Lowest Ceiling:	Overcast / 200 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	310°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	55° C / 0° C
Precipitation and Obscuration:			
Departure Point:	CHARLESTON, SC	Type of Flight Plan Filed:	IFR
Destination:	SAVANNAH, GA	Type of Clearance:	IFR
Departure Time:	2345	Type of Airspace:	

Airport Information

Airport:	SAVANNAH MUNICIPAL (SAV)	Runway Surface Type:	Asphalt; Concrete
Airport Elevation:	0 ft	Runway Surface Condition:	Wet
Runway Used:	27	IFR Approach:	VOR
Runway Length/Width:	9000 ft / 150 ft	VFR Approach/Landing:	

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	3 Fatal	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	On-Ground
Total Injuries:	4 Fatal	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	Report Date:	12/11/1983
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 pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .	

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](#).