



National Transportation Safety Board Aviation Accident Final Report

Location:	FORT LAUDERDALE, FL	Accident Number:	MIA91FA020
Date & Time:	11/03/1990, 1025 EST	Registration:	N541F
Aircraft:	AERO COMMANDER 680V	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	2 Fatal
Flight Conducted Under:	Part 91: General Aviation -		

Analysis

THE AIRPLANE HAD NOT FLOWN SINCE JUNE, 1989. THE FLIGHT HAD MADE 2 HIGH-SPEED TAXI OPERATIONS BEFORE TAKEOFF. IMMEDIATELY AFTER TAKEOFF THE FLIGHT CALLED TO LAND. THE AIRPLANE WAS OBSERVED ON DOWNWIND 200-800 FT AGL, 15-25 DEG NOSE HIGH. THE AIRPLANE THEN STALLED. THE COMPRESSOR SURGE VALVES FOR THE LEFT AND RIGHT ENGINES WERE FOUND IN THE OPEN POSITION.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT-IN-COMMAND'S DECISION TO CONTINUE TAKEOFF WITH A KNOWN DEFICIENCY IN THE AIRPLANE - LOW POWER ON BOTH ENGINES WHICH RESULTED FROM OPEN COMPRESSOR SURGE VALVES. THE PILOT SUBSEQUENTLY FAILED TO MAINTAIN AIRSPEED WHILE MANEUVERING IN A TURN RESULTING IN AN IN-FLIGHT LOSS OF CONTROL AND A STALL/SPIN.

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF

Phase of Operation: TAKEOFF

Findings

1. ALL ENGINES
 2. (C) BLEED AIR SYSTEM, VALVE - OPEN
 3. (C) OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT - INTENTIONAL - PILOT IN COMMAND
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Occurrence #2: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: APPROACH - VFR PATTERN - BASE TURN

Findings

4. (C) AIRSPEED(VSO) - NOT MAINTAINED - PILOT IN COMMAND
 5. STALL/SPIN - INADVERTENT - PILOT IN COMMAND
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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Findings

6. TERRAIN CONDITION - WATER

Factual Information

Pilot Information

Certificate:	Commercial	Age:	47, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	Yes
Medical Certification:	Class 2 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	01/25/1989
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1100 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	AERO COMMANDER	Registration:	N541F
Model/Series:	680V 680V	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:		Serial Number:	1609-45
Landing Gear Type:	Retractable - Tricycle	Seats:	11
Date/Type of Last Inspection:	05/03/1988, Unknown	Certified Max Gross Wt.:	9400 lbs
Time Since Last Inspection:		Engines:	2 Turbo Prop
Airframe Total Time:	6288 Hours	Engine Manufacturer:	GARRETT
ELT:	Installed, not activated	Engine Model/Series:	TPE 331-43H
Registered Owner:	BRYAN, MACK L. JR.	Rated Power:	575 hp
Operator:	BOBADILLA, PASTOR	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	FXE, 14 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	1027 EST	Direction from Accident Site:	80°
Lowest Cloud Condition:	Scattered / 10000 ft agl	Visibility	5 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	17 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	80°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-18°C / -18°C
Precipitation and Obscuration:			
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	0000	Type of Airspace:	

Airport Information

Airport:	FORT LAUDERDALE EXECUTIVE	Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	0	IFR Approach:	
Runway Length/Width:		VFR Approach/Landing:	Traffic Pattern

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):	CARROL A SMITH	Report Date:	08/05/1993
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.ntsb.gov/pubdms/ .		

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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](#).