



National Transportation Safety Board Aviation Accident Final Report

Location:	HILLIARD, FL	Accident Number:	MIA87FA191
Date & Time:	06/24/1987, 0235 EDT	Registration:	N57169
Aircraft:	Rockwell 690A	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	2 Fatal
Flight Conducted Under:	Part 135: Air Taxi & Commuter - Non-scheduled		

Analysis

RADAR DATA INDICATED THE ACFT CLIMBED NORMALLY TO 9,200 FEET AT WHICH TIME SOME MANUEVER WAS PERFORMED WITH THE ACFT. THE ACFT THEN ENTERED A NEAR VERTICAL DIVE AND THE LAST RADAR HIT WAS AT 6,900 FEET. EXAMINATION OF THE ACFT REVEALED IT EXPERIENCED AN INFLIGHT STRUCTUAL BREAKUP AND THERE WAS NO EVIDENCE TO INDICATE PREBREAKUP FAILURE OR MALFUNCTION OF THE ACFT STRUCTURE, FLIGHT CONTROLS, ENGINES, ENGINE MOUNTS, AUTOPILOT, OR SYSTEMS. THE OPERATOR REPORTED ONE EMPLOYEE OVERHEARD THE PLT AND PASSENGER TALK ABOUT ROLLING THE ACFT PRIOR TO DEPARTURE, AND TWO COMPANY EMPLOYEES REPORTED BEING ONBOARD WHEN THE PILOT HAD ROLLED IT ON PRIOR OCCASIONS. ONE OF THESE WAS AT NIGHT.

Probable Cause and Findings

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

Findings

Occurrence #1: ABRUPT MANEUVER
Phase of Operation: CLIMB - TO CRUISE

Findings

1. (C) AEROBATICS - PERFORMED - PILOT IN COMMAND
 2. (C) OVERCONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND
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Occurrence #2: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: MANEUVERING

Findings

3. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
 4. (C) ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND
 5. LIGHT CONDITION - DARK NIGHT
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Occurrence #3: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation: DESCENT - UNCONTROLLED

Findings

6. (C) DESIGN STRESS LIMITS OF AIRCRAFT - EXCEEDED - PILOT IN COMMAND
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Occurrence #4: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Airline Transport	Age:	34, 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:	Yes
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	02/05/1987
Occupational Pilot:	Last Flight Review or Equivalent:		
Flight Time:	6129 hours (Total, all aircraft), 170 hours (Total, this make and model), 5929 hours (Pilot In Command, all aircraft), 197 hours (Last 90 days, all aircraft), 61 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Rockwell	Registration:	N57169
Model/Series:	690A 690A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	11203
Landing Gear Type:	Retractable - Tricycle	Seats:	2
Date/Type of Last Inspection:	06/17/1987, 100 Hour	Certified Max Gross Wt.:	10300 lbs
Time Since Last Inspection:	14 Hours	Engines:	2 Turbo Prop
Airframe Total Time:	6970 Hours	Engine Manufacturer:	GARRETT
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	TPE331-5-251K
Registered Owner:	BANKAIR INC.	Rated Power:	715 hp
Operator:	BANKAIR INC.	Operating Certificate(s) Held:	On-demand Air Taxi (135)
Operator Does Business As:		Operator Designator Code:	LHPA

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	JAX, 30 ft msl	Distance from Accident Site:	10 Nautical Miles
Observation Time:	0253 EDT	Direction from Accident Site:	149°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	5 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	Calm /	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	23° C / 23° C
Precipitation and Obscuration:			
Departure Point:	JACKSONVILLE, FL (JAX)	Type of Flight Plan Filed:	IFR
Destination:	ATLANTA, FL (ATL)	Type of Clearance:	IFR
Departure Time:	0229 EDT	Type of Airspace:	Class E

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	1 Fatal	Aircraft Fire:	In-Flight and On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Fatal	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	JEFFREY L KENNEDY	Report Date:	02/24/1989
Additional Participating Persons:	FRED WILLIAMS; JACKSONVILLE, FL GEORGE ERDEL; JACKSONVILLE, FL PETER B BAKER; PHOENIX, AZ RICHARD W SOUTHARD; OKLAHOMA CITY, OK		
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/ .		

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