



National Transportation Safety Board Aviation Accident Final Report

Location:	BLOOMVILLE, OH	Accident Number:	ATL89FA058
Date & Time:	12/22/1988, 2030 EST	Registration:	N84UM
Aircraft:	CESSNA 414	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	2 Fatal
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

APRX 2 MIN AFTER THE FLT (N84UM) HAD CLIMBED & LEVELED AT FL 290, THE ARTCC CTLR NOTICED THERE WAS NO RETURN FM THE ACFT'S TRANSPONDER. THE CTLR TRANSMITTED AN ADZY, BUT GOT NO REPLY. HE MADE SVRL MORE RADIO CALLS & RCVD 2 REPLIES. LATER, A REVIEW OF THE RADIO TRANSCRIPT INDCD THE PLT'S 1ST REPLY WAS SOMETHING ABOUT 'ICE.' IN HIS 2ND RESPONSE TO AN INQUIRY FM THE CTLR ABOUT 'HOW DO YOU HEAR ME,' HE REPLIED 'GOOD.' AFTER THAT THERE WAS NO FURTHER CONTACT WITH THE FLT. WRECKAGE FM THE ACFT WAS FOUND SCATTERED OVER A 6 MI AREA, INDCG AN IN-FLT BREAKUP. PIECES FROM THE HORIZONTAL STABILIZERS WERE FOUND FM 2 TO 6 MI FM THE MAIN WRECKAGE. THE RGT WING WAS FOUND 2 MI FM THE MAIN WRECKAGE & THE LEFT OUTBOARD WING PANEL WAS FOUND ABOUT 1 MI FM THE RGT WING. DRG A PREFLT BRIEFING, THE PLT WAS ADZD OF TURBC & ICING CONDS; HE WAS TOLD TO EXPECT LGT TO MOD RIME ICING IN CLOUDS THRU 15,000', BUT THE ACFT WAS EQUIPPED FOR FLT IN ICING CONDS. A CHECK OF THE PLT'S LIVER FLUID SHOWED A BENZOYLECGONINE (COCAINE METABOLITE) LVL OF 0.136 MG/L.

Probable Cause and Findings

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

Findings

Occurrence #1: IN FLIGHT ENCOUNTER WITH WEATHER
Phase of Operation: CLIMB

Findings

1. LIGHT CONDITION - DARK NIGHT
 2. (F) WEATHER CONDITION - CLOUDS
 3. (F) WEATHER CONDITION - ICING CONDITIONS
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Occurrence #2: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: CRUISE

Findings

4. (C) AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND
 5. (F) IMPAIRMENT(DRUGS) - PILOT IN COMMAND
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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
 7. HORIZONTAL STABILIZER SURFACE - OVERLOAD
 8. HORIZONTAL STABILIZER SURFACE - SEPARATION
 9. WING - OVERLOAD
 10. WING - SEPARATION
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Occurrence #4: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Private	Age:	58, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 3 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	10/30/1987
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1336 hours (Total, all aircraft), 49 hours (Last 90 days, all aircraft), 17 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N84UM
Model/Series:	414 414	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	414A0825
Landing Gear Type:	Retractable - Tricycle	Seats:	8
Date/Type of Last Inspection:	12/21/1988, Annual	Certified Max Gross Wt.:	6750 lbs
Time Since Last Inspection:	5 Hours	Engines:	2 Reciprocating
Airframe Total Time:	1987 Hours	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	TSIO-520
Registered Owner:	DONALD I KAPETANSKY	Rated Power:	320 hp
Operator:	DONALD I. KAPETANSKY	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	FDY, 0 ft msl	Distance from Accident Site:	30 Nautical Miles
Observation Time:	1955 EDT	Direction from Accident Site:	90°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	7 Miles
Lowest Ceiling:	Broken / 1200 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	13 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	130°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	3°C / -1°C
Precipitation and Obscuration:			
Departure Point:	PONTIAC, MI	Type of Flight Plan Filed:	IFR
Destination:	WEST PALM BEACH, FL	Type of Clearance:	IFR
Departure Time:	1912 EST	Type of Airspace:	Class E

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	PHILLIP POWELL	Report Date:	06/19/1991
Additional Participating Persons:	ROGER HEARD; CLEVELAND, OH DALE CARTER; ATLANTA, GA GARY WHITE; WICHITA, TX		
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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