



National Transportation Safety Board Aviation Accident Final Report

Location:	OLATHE, KS	Accident Number:	MKC87FA035
Date & Time:	12/24/1986, 2249 CST	Registration:	N414LL
Aircraft:	CESSNA 414A	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	1 Serious
Flight Conducted Under:	Part 91: General Aviation - Business		

Analysis

THE PLT STATED THAT THIS WAS NOT A CHARTER FLT AND, AS SUCH, HE DECIDED TO ATTEMPT THE LOC 17 APCH TO OLATHE EVEN THOUGH THE AREA WAS FORECASTING ZERO-ZERO CONDITIONS. ACCORDING TO THE PLT, THE LAST THING HE REMEMBERS DURING THE FLT IS BRACKETING THE LOC AND READING 1,600 FT ON THE ALTIMETER. SUBSEQUENTLY, THE PLT FURTHER STATED, HE REMEMBERS BEING ON THE GROUND INSIDE THE WRECKAGE, MITIGATING THE INJURIES SUFFERED AND TRYING TO STAY WARM. A POST-ACCIDENT INVEST REVEALED THAT THE ACFT WAS TO THE LEFT OF THE LOCALIZER COURSE WHEN IT STRUCK TWO TREES 12 FT AGL (1,062 FT MSL), WHILE IN A 30 DEG RIGHT BANK. THE ACFT MADE A FLAT 360 RIGHT PIROUETTE OVER SOME SMALL TREES, TEARING OFF THE LEFT WING BEFORE IMPACTING THE GRND AND SLIDING APRX 600 FT. A POST-CRASH FIRE ERUPTED FROM THE RIGHT WING TANK BUT IT EXTINGUISHED ITSELF. A DOT FAA OPERATIONAL FLT TEST FOUND THE LOCALIZER TO BE WITHIN LIMITS. A LEAK CHECK OF THE ACFT STATIC SYSTEM AND A BENCH CHECK OF BOTH ALTIMETERS WERE SATISFACTORY.

Probable Cause and Findings

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

Findings

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT

Phase of Operation: APPROACH - FAF/OUTER MARKER TO THRESHOLD (IFR)

Findings

1. (F) WEATHER CONDITION - FOG
2. (F) LIGHT CONDITION - DARK NIGHT
3. OBJECT - TREE(S)
4. (F) IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND
5. (F) NOT PERFORMED - PILOT IN COMMAND
6. (C) IFR PROCEDURE - NOT FOLLOWED - PILOT IN COMMAND
7. (C) MINIMUM DESCENT ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND
8. (C) MISSED APPROACH - NOT PERFORMED - PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: APPROACH - FAF/OUTER MARKER TO THRESHOLD (IFR)

Occurrence #3: FIRE

Phase of Operation: OTHER

Findings

9. (C) FUEL SYSTEM,TANK - BURST

Factual Information

Pilot Information

Certificate:	Private	Age:	53, 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:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	05/10/1986
Occupational Pilot:	Last Flight Review or Equivalent:		
Flight Time:	4117 hours (Total, all aircraft), 23 hours (Total, this make and model), 3902 hours (Pilot In Command, all aircraft), 243 hours (Last 90 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N414LL
Model/Series:	414A 414A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	414A0627
Landing Gear Type:	Retractable - Tricycle	Seats:	7
Date/Type of Last Inspection:	11/24/1986, 100 Hour	Certified Max Gross Wt.:	6350 lbs
Time Since Last Inspection:	50 Hours	Engines:	2 Reciprocating
Airframe Total Time:	2403 Hours	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	TSIO-520-NB9
Registered Owner:	KANSAS CITY AVIATION CENTER	Rated Power:	310 hp
Operator:	KANSAS CITY AVIATION CENTER	Operating Certificate(s) Held:	On-demand Air Taxi (135)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	MKC, 758 ft msl	Distance from Accident Site:	20 Nautical Miles
Observation Time:	1045 CST	Direction from Accident Site:	16°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	2 Miles
Lowest Ceiling:	Overcast / 600 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	310°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	-1° C / -1° C
Precipitation and Obscuration:			
Departure Point:	KIRKSVILLE, MO (IRK)	Type of Flight Plan Filed:	IFR
Destination:	OLATHE, KS (OJC)	Type of Clearance:	IFR
Departure Time:	2204 CST	Type of Airspace:	Class B

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	RAMON E VARGAS	Report Date:	02/03/1988
Additional Participating Persons:	EDGAR J ROSENBERGER, II; KANSAS CITY, MO		
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 pubinquiry@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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