

# National Transportation Safety Board Aviation Accident Final Report

Location: MCGREGOR, TX Accident Number: FTW95LA115

Date & Time: 02/14/1995, 0108 CST Registration: N4643G

Aircraft: CESSNA 414 Aircraft Damage: Destroyed

**Defining Event:** 3 Minor, 1 None

Flight Conducted Under: Part 91: General Aviation - Personal

### **Analysis**

THE PILOT WAS CLEARED FOR THE VOR RUNWAY 17 APPROACH. FIELD ELEVATION AND THE MINIMUM DESCENT ALTITUDE WERE 590 AND 980 FEET RESPECTIVELY. THE MISSED APPROACH POINT WAS 10.4 MILES OUTBOUND FROM THE WACO VOR, WHICH COINCIDED WITH THE RUNWAY THRESHOLD. THE PILOT STATED THAT THE PASSENGER SEATED IN THE RIGHT FRONT SEAT ESTABLISHED VISUAL CONTACT WITH THE AIRPORT. AFTER CONFIRMING THAT THE AIRPORT WAS IN SIGHT AND THE RUNWAY ENVIRONMENT IDENTIFIED, THE PILOT CONTINUED HIS DESCENT TOWARDS THE RUNWAY TO LAND ON RUNWAY 17. THE PILOT FURTHER STATED THAT 'I REALIZED THAT THERE WOULD NOT BE ADEQUATE RUNWAY TO SAFELY LAND, AND INITIATED A RIGHT TURN TO EXECUTE A MISSED APPROACH.' THE RIGHT WING OF THE AIRPLANE IMPACTED THE TOP OF THE TREES. THE FAA INSPECTOR AT THE SCENE REPORTED THAT AFTER IMPACTING THE TREES, THE AIRPLANE CONTINUED THROUGH THE TREES FOR APPROXIMATELY 400 FEET ON A TRACK OF 344 DEGREES PRIOR TO COMING TO REST ON A HEADING OF 230 DEGREES.

# **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S DELAYED INITIATION OF THE MISSED APPROACH UNTIL WELL BELOW THE MINIMUM DESCENT ALTITUDE AND BEYOND THE PUBLISHED MISSED APPROACH POINT. FACTORS WERE THE DARK NIGHT AND THE LOW CEILING AND VISIBILITY.

### **Findings**

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: MISSED APPROACH (IFR)

#### **Findings**

- 1. (F) WEATHER CONDITION LOW CEILING
- 2. (C) MISSED APPROACH DELAYED PILOT IN COMMAND
- 3. (F) WEATHER CONDITION FOG
- 4. (F) LIGHT CONDITION DARK NIGHT
- 5. OBJECT TREE(S)

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Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

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#### **Factual Information**

On February 14, 1995, at 0108 central standard time, a Cessna 414, N4643G, was destroyed upon impact with trees and terrain while on an instrument approach to the McGregor Airport, near McGregor, Texas. The instrument rated private pilot was not injured, while his three passengers sustained minor injuries. Instrument meteorological conditions prevailed throughout the area for the personal dark night cross country flight.

According to air traffic control (ATC), the pilot filed an instrument flight rules (IFR) flight plan with Cannon Air Force Base, New Mexico, Departure Control while on climbout from the Portales Municipal Airport (Q34), and was issued an IFR clearance to the McGregor Airport (F60). After receiving the weather and altimeter setting for the destination airport, the pilot was cleared for the VOR Runway 17 approach. Field elevation and the minimum descent altitude were 590 and 980 feet respectively. The missed approach point was 10.4 miles outbound from the Waco VOR, which coincided with the runway threshold.

The pilot stated that the passenger seated in the right front seat established visual contact with the airport. After confirming that the airport was in sight and the runway environment identified, the pilot continued his descent towards the runway to land on Runway 17. The pilot further stated that "I realized that there would not be adequate runway to safely land, and initiated a right turn to execute a missed approach."

The right wing of the airplane impacted the top of the trees. The Federal Aviation Administration (FAA) inspector at the scene reported that after impacting the trees, the airplane continued through the trees for approximately 400 feet on a measured heading of 344 degrees prior to coming to rest on a heading of 230 degrees. The airplane was destroyed by impact and post impact fire; however, the cabin and cockpit area were not compromised.

The 0155 weather observation at F60 was sky partially obscured, 100 feet broken, visibility 1.75 miles in fog and drizzle. The pilot reported 300 feet broken and visibility 1.5 miles.

#### **Pilot Information**

Certificate:	Private	Age:	41, 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:	No
Medical Certification:	Class 2 Valid Medicalw/waivers/lim.	Last FAA Medical Exam:	12/08/1991
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	651 hours (Total, all aircraft), 318 hours (Total, this make and model), 603 hours (Pilot In Command, all aircraft), 32 hours (Last 90 days, all aircraft), 14 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N4643G
Model/Series:	414 414	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	414-0911
Landing Gear Type:	Retractable - Tricycle	Seats:	7
Date/Type of Last Inspection:	11/16/1994, Annual	Certified Max Gross Wt.:	6500 lbs
Time Since Last Inspection:	31 Hours	Engines:	2 Reciprocating
Airframe Total Time:	4083 Hours	Engine Manufacturer:	CONTINENTAL
ELT:	Installed	Engine Model/Series:	TSIO-520-NB
Registered Owner:	HERMANN, SCOTTY R., M.D.	Rated Power:	335 hp
Operator:	HERMANN, SCOTTY R., M.D.	Operating Certificate(s) Held:	None
Operator Does Business As:	TIGER AVIATION	Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	F60, 590 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	0155 CST	Direction from Accident Site:	180°
Lowest Cloud Condition:	Partial Obscuration / 100 ft agl	Visibility	1.75 Miles
Lowest Ceiling:	Broken / 100 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	70°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	2°C / 1°C
Precipitation and Obscuration:			
Departure Point:	PORTALES, NM (Q34)	Type of Flight Plan Filed:	IFR
Destination:		Type of Clearance:	IFR
Departure Time:	2336 MST	Type of Airspace:	Class E

## **Airport Information**

Airport:	MCGREGOR MUNICIPAL (F60)	Runway Surface Type:	Asphalt
Airport Elevation:	590 ft	Runway Surface Condition:	Wet
Runway Used:	17	IFR Approach:	VOR/DME
Runway Length/Width:	5499 ft / 75 ft	VFR Approach/Landing:	None

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#### Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Destroyed
Passenger Injuries:	3 Minor	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 Minor, 1 None	Latitude, Longitude:	

#### **Administrative Information**

Investigator In Charge (IIC):	HECTOR	R CASANOVA	Report Date:	06/29/1995
Additional Participating Persons:	KENNETH	D ROBINSON; FORT WORTH, 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 <a href="mailto:publing@ntsb.gov">publing@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.ntsb.gov/pubdms/">http://dms.ntsb.gov/pubdms/</a> .			

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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.

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