

National Transportation Safety Board Aviation Accident Final Report

Location: ELKHORN, WI Accident Number: CHI90MA244

 Date & Time:
 08/27/1990, 0100 CDT
 Registration:
 N16933

 Aircraft:
 BELL 206B
 Aircraft Damage:
 Destroyed

Defining Event: Injuries: 5 Fatal

Flight Conducted Under: Part 135: Air Taxi & Commuter - Non-scheduled

Analysis

FOUR HELICOPTERS WERE BEING USED AT NIGHT TO TRANSPORT A CONCERT GROUP FROM A GOLF COURSE AREA NEAR ELKHORN, WI, TO CHICAGO, IL. AS THE THIRD HELICOPTER (N16933) WAS DEPARTING, IT REMAINED AT A LOWER ALTITUDE THAN THE OTHERS, AND THE PILOT TURNED SOUTHEASTERLY TOWARD RISING TERRAIN. SUBSEQUENTLY, THE HELICOPTER CRASHED ON HILLY TERRAIN ABOUT 3/5 MI FROM THE TAKEOFF POINT. ELEVATION OF THE CRASH SITE WAS ABOUT 100 FT ABOVE THE GOLF COURSE AND 50 FT BELOW THE SUMMIT OF THE HILL. NO PREIMPACT PART FAILURE OR MALFUNCTION WAS FOUND DURING THE INVESTIGATION. PILOTS OF THE OTHER HELICOPTERS REPORTED VFR FLIGHT CONDITIONS WITH SOME FOG. A GROUND WITNESS NEAR THE CRASH SITE REPORTED HAZE AND GROUND FOG OF VARYING INTENSITY WITH PATCHES OF LOW CLOUDS, BUT SAID STARS COULD BE SEEN THROUGH THE FOG.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: IMPROPER PLANNING/DECISION BY THE PILOT, AND HIS FAILURE TO ATTAIN ADEQUATE ALTITUDE BEFORE FLYING OVER RISING TERRAIN AT NIGHT. FACTORS RELATED TO THE ACCIDENT WERE: DARKNESS, FOG, HAZE, RISING TERRAIN, AND THE LACK OF VISUAL CUES THAT WERE AVAILABLE TO THE PILOT.

Findings

Occurrence #1: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

- 1. (C) PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. (F) LIGHT CONDITION DARK NIGHT
- 3. (F) WEATHER CONDITION FOG
- 4. (F) WEATHER CONDITION HAZE/SMOKE
- 5. (F) TERRAIN CONDITION RISING
- 6. (C) PROPER ALTITUDE NOT ATTAINED PILOT IN COMMAND
- 7. (F) VISUAL/AURAL PERCEPTION PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	42, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Right
Other Aircraft Rating(s):	Helicopter	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Helicopter	Toxicology Performed:	Yes
Medical Certification:	Class 2 Valid Medicalw/ waivers/lim.	Last FAA Medical Exam:	07/11/1990
Occupational Pilot:		Last Flight Review or Equivalent:	

Aircraft and Owner/Operator Information

Aircraft Make:	BELL	Registration:	N16933
Model/Series:	206B 206B	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	2338
Landing Gear Type:	High Skid	Seats:	5
Date/Type of Last Inspection:	08/08/1990, AAIP	Certified Max Gross Wt.:	3200 lbs
Time Since Last Inspection:	36 Hours	Engines:	1 Turbo Shaft
Airframe Total Time:	7018 Hours	Engine Manufacturer:	ALLISON
ELT:	Installed, activated, aided in locating accident	Engine Model/Series:	250-C20B
Registered Owner:	OMNIFLIGHT HELICOPTERS	Rated Power:	317 hp
Operator:	OMNIFLIGHT HELICOPTERS	Operating Certificate(s) Held:	On-demand Air Taxi (135)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Unknown	Condition of Light:	Night/Dark
Observation Facility, Elevation:	MKE, 723 ft msl	Distance from Accident Site:	23 Nautical Miles
Observation Time:	0050 CDT	Direction from Accident Site:	60°
Lowest Cloud Condition:	Unknown / O ft agl	Visibility	0 Miles
Lowest Ceiling:	Unknown / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	1	Turbulence Type Forecast/Actual:	1
Wind Direction:		Turbulence Severity Forecast/Actual:	1
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:		Type of Flight Plan Filed:	None
Destination:	CHICAGO, IL (MDW)	Type of Clearance:	None
Departure Time:	0100 CDT	Type of Airspace:	Class G

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage: Destroyed
Passenger Injuries:	4 Fatal	Aircraft Fire: None
Ground Injuries:	N/A	Aircraft Explosion: None
Total Injuries:	5 Fatal	Latitude, Longitude:

Administrative Information

Investigator In Charge (IIC):	WILLIAM C BRUCE	Report Date:	09/11/1992
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 publing@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.