

NATIONAL TRANSPORTATION SAFETY BOARD

WASHINGTON, D.C. 20594



AIRCRAFT ACCIDENT/INCIDENT SUMMARY REPORT

COPPERHILL, TENNESSEE--FEBRUARY 22, 1986



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16.Abstract

This report is a summary of an aircraft, accident investigated by the National Transportation Safety Board. The accident location and date is Copperhill, Tennessee, February 22, 1986.

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National Transportation Safety Board

Washinaton, D.C. 20594

AIRCRAFT ACCIDENT/INCIDENT SUMMARY

File **No.:** 700

Operator: K-Airways, Inc., Kenosha, Wisconsin

Type and Registration: Beech G-18S, N74FA
Location: Near Copperhii, Tennessee

Date ana Time: February 22, 1986, 0730 eastern standard time

Persons on Board: 1 (pilot)
Injuries: 1 fatal
Damage: Destroyed
Other Damage: Trees

Type of Occurrence: Collision with trees and ground

Phase of Operation: Maneuvering

About 0630 central standard time 1/on February 22, 1986, a Beech G-185, N74FA, registered to and operated by K-Airways, inc., collided with trees and mountainous terrain during maneuvering flight near the Martin Campbeli Airport, Copperhill, Tennessee, while on an on-demand air taxi (14 CFR Part 135) flight. Instrument meteorological conditions existed at the time, and the pilot had filed an instrument flight rules (IFR) flight plan. The airplane was destroyed and the pilot, the sole occupant, was fatally injured.

About 0100 on February 22, 1986, the company manager of K-Airways, Inc., notified the pilot of a duty assignment at Milwaukee, Wisconsin The company manager reported that the pilot departed Kenosha, Wisconsin, his home base, and arrived at Milwaukee General Billy Mitchell Field about 0200. The airplane arrived in Milwaukee about 0230. Freight was loaded aboard the airplane, and at 0309, the pilot contacted the Milwaukee tower for the runway information and altimeter setting. The pilot told the controller that he would be flying under visual flight rules to DeKalb-Peachtree Airport, Atlanta, Georgia. The flight departed Milwaukee at 0310. Shortly after takeoff, the pilot radioed the dispatcher for D&H Flying Service in Kenosha and obtained weather information he had previously requested for his flight to Atlanta.

Between 0338 and 0403, the piiot communicated with several air traffic facilities, including the Chicago Flight Service Station and the Chicago Air Route Traffic Control Center (ARTCC). The pilot filed an IFR flight plan with the Chicago ARTCC after it reportedly failed to find a flight plan that the pilot claimed to have previously filed. At 5433, the Chicago ARTCC requested that N74FA change frequencies; the pilot complied. About 0438, N74FA was instructed to contact the Indianapolis ARTCC. Communications were intermittent between ground facilities and N74FA after the exchange. While handing control to the Atlanta ARTCC, the Indianapolis ARTCC notified the Atlanta ARTCC that N74FA should be considered NORDO (no radio), since "he just calls when he wants to." No evidence was found that the pilot ever attempted to institute lost communications procedures either by use of his transponder or other means. (See figure 1.)

I All times herein are central standard time according to the 24-hour clock.



Figure 1.—Route of flight of accident airplane.

From the radar National Track Analysis Program (NTAP) data, beginning at 0524, N74FA maintained a track generally paralleling Victor airway 513 until reaching a position about 3 nautical miles east of the Livingston, Tennessee, YHP omnidirectional radio range (VOR) station. The ground track was on an approximate bearing of 157 degrees, and the altitude data indicated that the airplane maintained 11,000 feet until 0527, when it descended to 10,900 feet. The airplane maintained that altitude until 0621, when it again began to Gescend. At 0627:46 radar contact was lost; the altitude readout indicated 2,900 feet at that time. A giound witness who saw the airplane flying level just under the clouds described the engines as sounding "like they were throttled back." He reported hearing no abnormal noises from the engines. The witness stated that after the airplane passed from view he heard a sharp noise, followed by a thunder-like sound. About 0630, the airplane collided with trees and mountainous terrain and burned. Weather conditions in the area were described as low clouds and fog. The witness stated that the mountain was visible and unobscured.

The airplane, a 1960 Beech model G-18S, N74FA, serial No. BA504, was registered to and operated by K-Airways, Inc., of Kenosha as an on-demand air taxi freight. The airplane records reportedly were kept on the airplane. Available records and reasonable estimates were used to determine that appropriate maintenance had been performed on the accident airplane. A postaccident examination of the wreckage failed to disclose any evidence of preimpact failure or malfunction of the airplane or its systems. The posterash fire destroyed most of the wreckage.

At the time of the accident, the pilot served as the chief and primary company pilot and was on call 24 hours a day, raday through Saturday. He carried an electronic paging device when away from the airport so that the operator could contact him for duty assignments. Me Rad been employed by K-Airways, Inc., since January 1583.

The pilot held Airline Transport Pilot Certificate No. 356423791, with airplane multiengine land and commercial single-engine land ratings. He held a second class medical certificate with the restriction that he must wear corrective lenses. Waiver No. 07715 had been issued to him for distance and color vision deficiencies.

On his last application for a medical certificate, the pilot indicated that he had a total of 6,800 hours flight time and had accumulated 500 hours in the past 6 months. His employer estimated that at the time of the accident the pilot had 7,500 hours total time and 2,500 hours in the Beech 18. A review of his flight and training records for 1984 and 1985 indicated that the pilot had over 5,800 tours total flight time, over 5,000 hours cross-country, over 1,500 hours night, end over 800 hours instrument pilot time. According to an entry on the training record, his last flight check in the Beech 18 was conducted on August 6, 1985. His last Part 135 flight check was conducted on January 30, 1986, and was completed in a Cessna 207.

According to the company manager, most of the pilot's assignments were night flights. He was known to stay up late at night watching television or reading and to deep late in the morning, frequently being swakened after 1100. He lived alone in a room in the upper level of the K-Airways hangar at the Kenosha airport. The owner of K-Airways stated that this arrangement was convenient for the company as well as the pilot.

Safety Board investigators reconstructed the pilet's activities during the 24 hours before the accident. The pilot awakened about 0900 on February 21. Between 0900 and 1800, the pilot and company manager spent the majority of the workday together, which included a round-trip flight to Michigan during the morning- At 1800, the pilot took a taxi from the airport to a bar in Kenosha. During the next few hours, the pilot had conversations with two bartenders who reported that the pilot complained of being tired. Both bartenders recalled that the pilot fell asleep on the bar several times and had to be awakened. He left the bar sometime between 2300 and 2400.

The pilot was met at the Kenosha airport by a dispatcher for D&H Plying Service who stated that the pilot complained of being called away from a meal in Kenosha to make the flight. The dispatcher said that the pilot acted somewhat "odd," that he did not look at the dispatcher while speaking, and that he answered questions in one or two words.

Toxicological analysis of a **blood** specimen obtained from the pilot's remains revealed an ethyl alcohol concentration of **0.158** percent at the time of death. The elapsed time from departing Kenosha to the time of the accident was about 4 hours 30 minutes. No other drugs were detected in the sample.

Copies of the pilot's driving records were obtained from the States of Wisconsin and Illinois. The records revealed that iris driver's license had been revoked on January 8, 1980, following a conviction for leaving the scene of en accident in September 1979 that resulted in death or personal injury. His driver's license remained continuously revoked as a result of 20 traffic violation convictions that were recorded during a 4 1/2-year period between February 2, 1980, and September 10, 1984. The convictions included seven driving while revoked, two driving without a license, two speeding, one stop sign, one reckless driving, and seven driving while intoxicated (DWI).

The pilot was officially identified as a habitual traffic offender on June 3, 1985, and hilicense was revoked for 5 years.

As a result of the fifth conviction for DWI (blood alcohol concentration (BAC) of 0.20 percent), the pilot was incarcerated in the Kenosha County Detention Center for 30 days during April and May 1483. He was again incarcerated for 5 months between January and May 1985 following the seventh conviction for DWI. This conviction was a result of a September 10, 1984, accident; at the time of arrest, he had a BAC of 0.26 percent.

His employer was clearly aware of the pilot's alcohal-related problems, probably first coming to the attention of the president of the company in April 1983, 3 months after the pilot had been hired. Following his fifth drunk driving conviction and during two other periods of incarceration in 1984 and 1985, following drunk driving-related charges are convictions, the management of K-Airways used the services of the pilot while in work-release status. Reportedly in 1984, the pilot was warned that his employment at K-Airways would be terminated if his problem continued. The owner and the company manager stated that they were able to monitor the pilot's activities by permitting him to live at the hangar.

According to his ex-wife, the pilot had Seen evaluated by a professional counselor in 1978 and had been determined to be in the advanced stages of alcoholism. In September 1981 and January 1985 following convictions for DWI, the pilot underwent court-ordered alcohol assessment and treatment by a certified alcohol counselor. The counselor reported that the pilot used alcohol irresponsibly, that he was suspected of alcohol dependency, and that his drinking pattern involved recurrent use of alcohol in early chronicity. The pilot satisfactorily completed out-patient programs after these assessments. The Safety Board believes that the pilot was a chronic alcohol abuser and that he suffered from alcohol dependency.

Pollowing the seventh DWI arrest in Konosha during September 1984, an assistant city attorney (ACA) filed a formal complaint with the Federal Aviation Administration's (FAA) Great Lakes Regional Office. The attorney was concerned about the obvious conflict between the pilot's driving history and his professional flight duties. An investigator assigned to the FAA Office of Civil Aviation Security interviewed the attorney on September 24, 1984, and obtained a copy of the pilot's driving record. The FAA Flight Standards District Office (FSDO) in Milwaukee, which maintained the X-Airways operating certificate, was not advised of the FAA investigation of the pilot or of his history. In an attempt to determine the status of the investigation, the attorney contacted the FAA investigator and inquired about the status of the investigation three times during subsequent months. The FAA investigator told a Safety Board investigator that the investigation had been discontinued due to "other more serious investigative assignments." During Safety Board inquiries into the matter, the Milwaukee FSDO was made aware of the situation.

Upon receipt of the attorney's complaint, an FAA review of the pilot's medical certificate applications would have discovered fraudulent entries and may have resulted in the identification of the pilot as an alcohol abuser. Such action also may have affected the pilot's medical certificate and his fitness to fly.

At the time of the accident, the pilot had not slept for 21.5 hours. He had flown in a company aircraft for approximately 3 hours at the beginning of this period. The pilot complained of exhaustion or fatigue on several occasions during the 2 days preceding the accident and within hours of notification and departure on the accident flight. The 3-hour

20-minute flight (departure to accident) was conducted primarily at night, using instrument procedures, and at 11,000 feet without oxygen. The company manager was apparently willing to accept the risk that the pilot could make the flight safely even though he should have known that the pilot had received little or no rest during the previous 16 hours.

The pilot had consumed alcoholic beverages in the hours before the flight and based on th@toxicological analyses was under the influence of alcohol while operating the sirplane. It is probable that mild hypoxia exacerbated by the pilot's heavy smoking habit significantly intensified the adverse effects of alcohol intoxication.

Although the FAA was alerted to the pilot's extensive history of alcohol abuse and K-Airways was aware of his problem for 3 years, the pilot continued to conduct Part 135 flights. The pilot had been examined regularly by FAA-designated aviation medical examiners. However, the FAA did not detect the pilot's alcohol abuse and dependency, due, in part, to the pilot's falsification of medical history questions concerning an "excessive drinking habit" and a "record of traffic convictions" on his applications for medical certificates.

The attached brief of accident contains the Safety Board's conclusions, findings of probable cause, and related factors.

BY THE NATIONAL TRANSPORTATION SAFETY BOARD

- /s/ JIM BURNETT Chairman
- /s/ PATRICIA A. GQLDMAN Vice Chairman
- /s/ <u>JOHN K. LAUBER</u> Member
- /s/ JOSEPH T. NALL Member
- /s/ JAMES A KOLSTAD Member

February 20, 1988

National Transportation Bafety Roard Washington, D.C. 20394

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