



National Transportation Safety Board Aviation Accident Factual Report

Location:	El Dorado, CA	Accident Number:	LAX02FA038
Date & Time:	12/02/2001, 1815 PST	Registration:	N6946P
Aircraft:	Piper PA-24-250	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	4 Fatal
Flight Conducted Under:	Part 91: General Aviation - Personal		

HISTORY OF FLIGHT

On December 2, 2001, about 1815 Pacific standard time, a Piper PA-24-250, N6946P, was destroyed during an in-flight collision with terrain near El Dorado, California. The private instrument rated pilot and three passengers all received fatal injuries. The personal flight was operated by the owner/pilot under the provisions of 14 CFR Part 91. The flight originated at North Las Vegas, Nevada, and was destined for Cameron Park, California. No flight plan had been filed. There were no records found of a Federal Aviation Administration (FAA) preflight weather briefing nor en route communications with any FAA facility.

An airport check revealed that the airplane arrived at the North Las Vegas Air Terminal on November 30, 2001, about 1546. While no records were available to confirm an exact departure time, transient parking records established that the airplane likely left North Las Vegas just prior to 1600 on December 2, 2001. The pilot's route of flight and altitudes flown between Las Vegas and the accident site are unknown.

There were no known witnesses to the accident.

The accident site is about 8 miles east of the flight's intended destination airport.

PILOT INFORMATION

Examination of the pilot's logbook revealed about 703 total flight hours, with 22 instrument hours and 63 night hours. The front page of the logbook was noted as No. 1, and dated April 1, 2000. The pilot's recency of flight could not be determined as the last few pages of his logbook were incomplete.

AIRPLANE INFORMATION

Examination of the airplane logbooks revealed that the most recent annual inspection occurred

on April 20, 2001, at 4875 total flight hours. The most recent altimeter calibration, static system check, transponder, and VOR receiver checks occurred on September 21, 2000. The time recording tachometer was destroyed.

Records at the North Las Vegas airport documented that the pilot made a fueling request to fill both main fuel tanks. A fueling invoice documented 12.1 gallons of 100LL fuel was added to the main fuel tanks. The airplane was fitted with two 30-gallon main fuel tanks and two 15-gallon auxiliary tip tanks. The amount of fuel in the tip tanks when the airplane departed Las Vegas is unknown.

METEOROLOGICAL INFORMATION

There was no FAA record of the pilot requesting a preflight weather briefing prior to the return flight to Cameron Park.

Safety Board meteorologists performed a weather study of the accident area and time. An unusually strong late fall weather system was affecting California on December 2. Overcast clouds were banked east of Sacramento over the Sierra Nevada foothills. A southwest-northeast oriented cloud band with scattered light rain showers was present from south of Sacramento through the accident area. A light rain shower was likely present in the accident area when the accident occurred. Cloud bases were probably 1,000 to 2,000 feet above ground level, and cloud tops were probably around 16,000 feet msl.

Winds and temperatures at the accident airplane's estimated flight envelope of 3,000 to 4,500 feet msl were southwesterly at 30 knots and 34 to 41 degrees Fahrenheit, respectively. The freezing level in the accident area was about 5,000 feet msl. The presence of a light rain shower near the accident site and an upslope flow condition indicated that super cooled large water droplets were likely present in the area.

Occasional moderate mechanical turbulence was likely in the area with severe turbulence possible near convective activity. National Weather Service aviation forecast and advisory products were reviewed and compared to reported weather conditions during the course of the investigation with no significant discrepancies noted.

Local area residents reported that they were experiencing strong winds, and heavy rain with lightning and thunder at the time of the accident. A sheriff's deputy reported that two separate weather cells were passing through the area. About 40 miles north at Blue Canyon, California, the weather reporting facility was reporting: wind 200 degrees at 15 with gusts to 28; 1/4 mile visibility and heavy snow; altimeter 29.69 inHg. About 23 miles southwest at Mather, California, the weather reporting facility was reporting: wind 180 degrees at 11; 10 miles visibility; 5,500 foot broken clouds; and altimeter 29.84 inHg.

WRECKAGE AND IMPACT INFORMATION

The wreckage was located at 38 degrees 36 minutes 28.9 degrees north latitude and 120 degrees 51 minutes 9.4 degrees west longitude, about 1,615 feet msl. Most of the airplane was located in an impact crater with some scatter uphill about 60 feet on a magnetic heading of 076 degrees. The scatter consisted of cabin roof, cabin door, cowl door, radio and instrument parts, personal baggage, and interior parts. A post accident fire consumed most of the airplane center section and other parts. The entire airplane was accounted for at the accident site except for the rudder counter weights. The rudder, vertical stabilizer, horizontal stabilator, and trim tab were overhanging the center of the fire area as an assembly. No evidence of overtravel or flutter were noted on the rudder. The wing flaps and landing gear appeared to be in the retracted position.

Wing span accordioning near parallel to the wing chord center line was evident from wing tip to wing tip. The engine was located below the ground level average. Of the three propeller blades broken from the propeller hub, two were visible in the engine crater. All three propeller blades were examined with two revealing leading edge damage and trailing edge "S" bending. The third blade displayed a forward bend.

Examination of the center section revealed the two fuel selectors pointing to their respective wing tips, or left selector to the 9 o'clock and right to the 3 o'clock position. Traces of blue fuel were found in the wing tip fuel tanks. The main fuel tanks were destroyed. The recording tachometer was still attached to the drive cable in the center section area and was fire damaged. The altimeter was located uphill from the wreckage and damaged with the barometric window indicating about 29.83 inHg. The airplane 8-day clock was indicating 8:50 with the face glass missing. The gyro horizon and directional gyro were destroyed by impact forces and post accident fire. No other instrument information was recovered. The dry air vacuum pump was broken open revealing fractured carbon vane blocks. The vacuum pump splined drive coupling was destroyed by fire.

MEDICAL AND PATHOLOGICAL INFORMATION

The El Dorado County Medical Examiner was unable to perform an autopsy on the pilot nor obtain suitable samples for FAA toxicological analysis.

ADDITIONAL INFORMATION

The airplane wreckage was released to the insurance company representative on December 19, 2001.

Pilot Information

Certificate:	Private	Age:	39, Male
Airplane Rating(s):	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 3 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	04/01/2000
Occupational Pilot:		Last Flight Review or Equivalent:	10/02/2000
Flight Time:	703 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N6946P
Model/Series:	PA-24-250	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	24-2081
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	04/20/2001, Annual	Certified Max Gross Wt.:	2800 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	4875 Hours as of last inspection	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	O-540
Registered Owner:	Fix Signs, Inc.	Rated Power:	250 hp
Operator:	Scott E. Mills	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Night
Observation Facility, Elevation:	MHR	Distance from Accident Site:	
Observation Time:	1845 PST	Direction from Accident Site:	
Lowest Cloud Condition:	Thin Broken / 5500 ft agl	Visibility	10 Miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	11 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	180°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.84 inches Hg	Temperature/Dew Point:	9° C / 7° C
Precipitation and Obscuration:			
Departure Point:	N. Las Vegas, NV (VGT)	Type of Flight Plan Filed:	None
Destination:	El Dorado, CA (O61)	Type of Clearance:	None
Departure Time:	PST	Type of Airspace:	Class G

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	3 Fatal	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	4 Fatal	Latitude, Longitude:	38.604722, -120.850000

Administrative Information

Investigator In Charge (IIC):	GEORGE E PETERSON
Additional Participating Persons:	Charles Little; The New Piper Aircraft; Chino Hills, CA Mark Platt; Textron Lycoming; Williamsport, PA Dal Patno; Federal Aviation Administration; Sacramento, CA
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/ .