



National Transportation Safety Board Aviation Accident Data Summary

Location:	Justin, TX	Accident Number:	CEN09FA115
Date & Time:	01/03/2009, 1345 CST	Registration:	N99YK
Aircraft:	NANCHANG CHINA CJ-6	Injuries:	2 Fatal
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

After leading a three-ship formation to the destination airport, and while in pattern to land, the lead airplane was observed to be in a very steep right turn that immediately turned to a near vertical nose-down descent. The airplane then impacted terrain in a near vertical nose-down attitude. A postimpact fire consumed portions of the cockpit, fuselage, right aileron, left elevator, rudder, and vertical fin. Prevailing winds were from 40 degrees from runway heading at 10 knots gusting to 19 knots. The investigation could not determine if the wind conditions contributed to the pilot's decision to use a steeper-than-normal bank angle. federal Aviation Administration Advisory Circulatory 61-67C informs pilots that accelerated stall can occur at higher-than-normal airspeed if there are abrupt and/or excessive control inputs such as during steep turns. An examination of the engine and airframe did not reveal any preimpact anomalies.

Flight Events

Approach-VFR pattern base - Aerodynamic stall/spin
Uncontrolled descent - Collision with terr/obj (non-CFIT)
Post-impact - Fire/smoke (post-impact)

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to maintain adequate airspeed while maneuvering on approach, which resulted in an accelerated stall and subsequent loss of control.

Findings

Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Airspeed-Not attained/maintained - C
Aircraft-Aircraft oper/perf/capability-Performance/control parameters-(general)-Capability exceeded - C
Personnel issues-Task performance-Use of equip/info-Aircraft control-Pilot - C

Pilot Information

Certificate:	Private	Age:	69
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	(Estimated) 2500 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	NANCHANG CHINA	Registration:	N99YK
Model/Series:	CJ-6	Engines:	1 Reciprocating
Operator:		Engine Manufacturer:	Vendeneyeve
Air Carrier Operating Certificate:	None	Engine Model/Series:	M14P
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KAFW, 722 ft msl	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	None
Condition of Light:	Day	Wind Speed/Gusts, Direction:	10 knots/ 19 knots, 210°
Temperature:	28° C / 9° C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Justin, TX (16X)	Destination:	Justin, TX (16X)

Airport Information

Airport:	Propwash Airport (16X)	Runway Surface Type:	
Runway Used:	N/A	Runway Surface Condition:	
Runway Length/Width:			

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	1 Fatal	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None

Administrative Information

Investigator In Charge (IIC):	William H Gamble	Adopted Date:	04/22/2010
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/ .		

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