



National Transportation Safety Board Aviation Accident Data Summary

Location:	OSWEGO, IL	Accident Number:	CHI00FA003A
Date & Time:	10/01/1999, 1600 CDT	Registration:	N300SH
Aircraft:	Beech D-45	Injuries:	1 Fatal
Flight Conducted Under:	Part 91: General Aviation -		

Analysis

N300SH, a Beech D-45, was destroyed on impact with terrain following a midair collision with N5367G, a Beech T-34, during a practice maneuver by the Lima Lima Flying Squadron. Both aircraft departed in sequence from 6-ship delta formation to perform a maneuver called a pop top break. The pop top break involved each aircraft to depart from the formation in sequence by entering a climbing 180-degree turn to follow the lead aircraft in trail. The narrow area of the human eye's visual field is approximately 10-15 degrees. A video tape of the accident flight shows a delayed entry into the turn by the D-45 relative to the T-34's entry into the maneuver. The pilot of the T-34 stated that he did not see the D-45 prior to the midair collision. The Lima Lima Flying Squadron did not have procedures in place to recover or adjust for maneuvers that were not successful.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the visual lookout not obtained by the pilot of the Beech T-34 and the inadequate procedure by the Lima Lima Flying Squadron. The delayed entry into the maneuver by the pilot of the Beech D-45 was a contributing factor.

Findings

Occurrence #1: MIDAIR COLLISION
Phase of Operation: MANEUVERING - TURN TO REVERSE DIRECTION

Findings

1. (F) MANEUVER - DELAYED - PILOT IN COMMAND
2. (C) PROCEDURE INADEQUATE - OTHER INSTITUTION
3. (C) VISUAL LOOKOUT - NOT OBTAINED - PILOT OF OTHER AIRCRAFT

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Pilot Information

Certificate:	Airline Transport; Commercial	Age:	61
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	16066 hours (Total, all aircraft), 85 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	Beech	Registration:	N300SH
Model/Series:	D-45 D-45	Engines:	1 Reciprocating
Operator:	LIMA LIMA FLYING SQUADRON INC	Engine Manufacturer:	Continental
Operating Certificate(s) Held:	None	Engine Model/Series:	IO-520-BB
Flight Conducted Under:	Part 91: General Aviation -		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	ARR, 706 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	3 knots / , 10°
Temperature:	16° C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	NAPERVILLE, IL (LL10)	Destination:	CHICAGO, IL (CGX)

Airport Information

Airport:		Runway Surface Type:	
Runway Used:	0	Runway Surface Condition:	
Runway Length/Width:			

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC): MITCHELL F GALLO

Adopted Date: 04/06/2001

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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