



Aviation Investigation Final Report

Location: Bealeton, Virginia Accident Number: ERA10CA500

Date & Time: September 24, 2010, 12:00 Local Registration: N65648

Aircraft: Boeing A75N1 Aircraft Damage: Substantial

Defining Event: Loss of control on ground **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

According to the certificated flight instructor (CFI), the purpose of the flight was for the pilot under instruction (PUI) to conduct airwork and grass field landings. The PUI was seated in the rear seat and the CFI was seated in the front seat. The PUI stated that the CFI was on the flight controls in conjunction with him since it was going to be his first landing on a grass strip. The CFI stated that he advised the PUI that the PUI had authority over the flight controls to which he received an acknowledgement. On the first touchdown, the tailwheel-equipped airplane bounced and became airborne, then touched down a second time. After the second touchdown, when the airplane began turning to the right, the flight instructor took over authority of the flight controls and applied left rudder, which was ineffective. The airplane then ground-looped 90 degrees and struck a cluster of trees. Post-accident examination revealed that the airplane incurred damage to both lower wings. Both pilots reported no preimpact mechanical malfunctions or anomalies with the airplane.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot under instruction's improper recovery from a bounced landing and the flight instructor's delayed remedial action, which resulted in a ground loop and collision with trees.

Findings

Aircraft Landing flare - Not attained/maintained

Personnel issues Aircraft control - Pilot

Personnel issues Delayed action - Instructor/check pilot

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Factual Information

History of Flight

Landing-flare/touchdown	Abnormal runway contact
Landing-flare/touchdown	Loss of control on ground (Defining event)
Landing-landing roll	Collision with terr/obj (non-CFIT)

Flight instructor Information

Certificate:	Airline transport; Commercial; Flight instructor	Age:	87,Male
Airplane Rating(s):	Multi-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	August 12, 2009
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	November 22, 2009
Flight Time:	(Estimated) 20995 hours (Total, all aircraft), 60 hours (Total, this make and model), 10000 hours (Pilot In Command, all aircraft), 17 hours (Last 30 days, all aircraft)		

Pilot Information

Certificate:	Private	Age:	26,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Rear
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	July 3, 2009
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	June 26, 2010
Flight Time:	665 hours (Total, all aircraft), 13 hours (Total, this make and model), 588 hours (Pilot In Command, all aircraft), 10 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Boeing	Registration:	N65648
Model/Series:	A75N1	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Aerobatic	Serial Number:	75-972
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	March 10, 2010 Annual	Certified Max Gross Wt.:	2950 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3985 Hrs at time of accident	Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	W670-6N
Registered Owner:	Pegasus Air LLC	Rated Power:	220 Horsepower
Operator:	Pegasus Air LLC	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	HWY,336 ft msl	Distance from Accident Site:	4 Nautical Miles
Observation Time:	13:01 Local	Direction from Accident Site:	20°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots / None	Turbulence Type Forecast/Actual:	/
Wind Direction:	200°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.07 inches Hg	Temperature/Dew Point:	34°C / 14°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Manassas, VA (HEF)	Type of Flight Plan Filed:	VFR
Destination:	Bealton, VA (29VA)	Type of Clearance:	None
Departure Time:	11:30 Local	Type of Airspace:	

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Airport Information

Airport:	Rhynalds Ranch Airport 29VA	Runway Surface Type:	Grass/turf
Airport Elevation:	285 ft msl	Runway Surface Condition:	Dry
Runway Used:	28	IFR Approach:	None
Runway Length/Width:	2500 ft / 120 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	38.524166,-77.736389(est)

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Administrative Information

Investigator In Charge (IIC):	Gunther, Todd
Additional Participating Persons:	Keith Clark; FAA/FSDO; Herndon, VA
Original Publish Date:	March 16, 2011
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=77393

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The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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