



Aviation Investigation Final Report

Location:	Salisbury, North Carolina	Accident Number:	GAA16CA081
Date & Time:	November 28, 2015, 13:00 Local	Registration:	N2000R
Aircraft:	Cessna 182	Aircraft Damage:	Substantial
Defining Event:	Hard landing	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Skydiving		

Analysis

According to the pilot of the tricycle landing gear equipped airplane, he was performing skydiving operations. He reported that he felt rushed in performing his assigned duties because, "the skydiving school kept wanting me to return quicker for the next load." The pilot recalled that after dropping the sky divers, he made his approach to land; the airplane ballooned during the flare, and landed hard on all three landing gear. The airplane sustained substantial damage to the firewall.

The pilot reported that there were no mechanical failures or anomalies prior to or during the flight that would have prevented normal flight operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's failure to maintain pitch control during the landing flare, causing the airplane to balloon and land hard.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Landing flare - Incorrect use/operation
Aircraft	Pitch control - Not attained/maintained
Environmental issues	Time/schedule pressure - Effect on personnel

Factual Information

History of Flight

Landing-flare/touchdown	Other weather encounter
Landing-flare/touchdown	Loss of lift
Landing-flare/touchdown	Hard landing (Defining event)

Pilot Information

Certificate:	Commercial; Flight engineer	Age:	49, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	August 10, 2015
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	November 19, 2015
Flight Time:	(Estimated) 406 hours (Total, all aircraft), 11 hours (Total, this make and model), 321 hours (Pilot In Command, all aircraft), 51 hours (Last 90 days, all aircraft), 29 hours (Last 30 days, all aircraft), 10 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N2000R
Model/Series:	182 G	Aircraft Category:	Airplane
Year of Manufacture:	1963	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18255200
Landing Gear Type:	Tricycle	Seats:	1
Date/Type of Last Inspection:	November 6, 2015 100 hour	Certified Max Gross Wt.:	2348 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	6934 Hrs at time of accident	Engine Manufacturer:	CONT MOTOR
ELT:	C91 installed, not activated	Engine Model/Series:	O-470-R
Registered Owner:	Piedmont Skydiving Center LLC	Rated Power:	230 Horsepower
Operator:	Piedmont Skydiving Center LLC	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KRUQ,773 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	17:55 Local	Direction from Accident Site:	54°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots / None	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	250°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.26 inches Hg	Temperature/Dew Point:	18°C / 11°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Salisbury, NC (RUQ)	Type of Flight Plan Filed:	None
Destination:	Salisbury, NC (RUQ)	Type of Clearance:	VFR;Traffic advisory
Departure Time:		Type of Airspace:	Class G

Airport Information

Airport:	ROWAN COUNTY RUQ	Runway Surface Type:	Asphalt
Airport Elevation:	772 ft msl	Runway Surface Condition:	Dry
Runway Used:	20	IFR Approach:	None
Runway Length/Width:	5501 ft / 100 ft	VFR Approach/Landing:	Stop and go

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	35.645832,-80.520278(est)

Administrative Information

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Steve Tucker; Federal Aviation Administration; Charlotte, NC
Original Publish Date:	April 5, 2016
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=92455

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