



Aviation Investigation Final Report

Location:	Titusville, Florida	Accident Number:	ERA12CA375
Date & Time:	May 31, 2012, 08:30 Local	Registration:	N1803R
Aircraft:	Schweizer 269C-1	Aircraft Damage:	Substantial
Defining Event:	Hard landing	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

According to the flight instructor, during the helicopter instructional flight, he simulated an engine failure. During the descent, the engine rpm began to decrease. As the helicopter approached the intended landing area, the student pilot raised the collective, which further decreased the rotor rpm. The flight instructor lowered the collective and increased the throttle; the helicopter touched down hard, bounced, landed and rolled onto its left side, which resulted in substantial damage to the tailboom. A postaccident examination revealed no preexisting mechanical anomalies that would have precluded normal operation. Additionally, neither pilot reported any mechanical malfunctions with the helicopter.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The flight instructor’s inadequate supervision and delayed remedial action during a simulated engine-out procedure, which resulted in a hard landing.

Findings

Aircraft	Landing flare - Not attained/maintained
Personnel issues	Delayed action - Instructor/check pilot
Personnel issues	Task monitoring/vigilance - Instructor/check pilot

Factual Information

History of Flight

Autorotation	Attempted remediation/recovery
Autorotation	Hard landing (Defining event)

Flight instructor Information

Certificate:	Airline transport; Commercial	Age:	52, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Helicopter	Second Pilot Present:	Yes
Instructor Rating(s):	Helicopter	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	April 16, 2012
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	May 29, 2012
Flight Time:	7616 hours (Total, all aircraft), 2874 hours (Total, this make and model), 6287 hours (Pilot In Command, all aircraft), 102 hours (Last 90 days, all aircraft), 13 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Student pilot Information

Certificate:	None	Age:	34
Airplane Rating(s):	None	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	None	Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	61 hours (Total, all aircraft), 61 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	Schweizer	Registration:	N1803R
Model/Series:	269C-1	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	0298
Landing Gear Type:	Skid	Seats:	2
Date/Type of Last Inspection:	May 2, 2012 100 hour	Certified Max Gross Wt.:	1750 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	2907 Hrs at time of accident	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	H10-360-G1A
Registered Owner:	BRISTOW ACADEMY INC	Rated Power:	180 Horsepower
Operator:	BRISTOW ACADEMY INC	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	TIX,34 ft msl	Distance from Accident Site:	5 Nautical Miles
Observation Time:	07:50 Local	Direction from Accident Site:	40°
Lowest Cloud Condition:	Clear	Visibility	4 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	250°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:	N/A - None - Mist		
Departure Point:	Titusville, FL (TIX)	Type of Flight Plan Filed:	Company VFR
Destination:	Titusville, FL (TIX)	Type of Clearance:	VFR
Departure Time:	07:30 Local	Type of Airspace:	

Airport Information

Airport:	Space Coast Regional Airport TIX	Runway Surface Type:	
Airport Elevation:	34 ft msl	Runway Surface Condition:	
Runway Used:		IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Simulated forced landing

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:	28.441667,-80.859169(est)

Administrative Information

Investigator In Charge (IIC):	Etcher, Shawn
Additional Participating Persons:	Frank N Rios; FAA/FSDO; Orlando, FL
Original Publish Date:	November 26, 2012
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=83811

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