



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	Chicago, IL	<b>Accident Number:</b>	CEN14CA017
<b>Date &amp; Time:</b>	10/02/2013, 1715 CDT	<b>Registration:</b>	N554SA
<b>Aircraft:</b>	ROBINSON R22 - BETA	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control in flight	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Instructional		

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## Analysis

The student pilot stated they had been practicing hovering for about 30 minutes, and were about two feet above the ground. He recalled that he was "controlling the cyclic and maybe the collective, but not the pedals." The flight instructor thought they were three to five feet above the ground. The helicopter experienced a pendular motion and began traveling backwards and to the right. The right skid made contact with the ground, which resulted in the tail impacting the ground and the helicopter rolling onto its side. The helicopter sustained substantial damage to the tail rotor.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The flight instructor's failure to take remedial action in a timely manner.

## Findings

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<b>Aircraft</b>	Altitude - Not attained/maintained
<b>Personnel issues</b>	Lack of action - Instructor/check pilot (Cause)

## Factual Information

### History of Flight

Prior to flight	Miscellaneous/other
Maneuvering-hover	Loss of control in flight (Defining event) Collision with terr/obj (non-CFIT)

### Student Pilot Information

Certificate:	Student	Age:	45
Airplane Rating(s):	None	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Unknown	Last Medical Exam:	07/02/2013
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	3 hours (Total, all aircraft), 3 hours (Total, this make and model)		

### Flight Instructor Information

Certificate:	Flight Instructor; Commercial	Age:	28
Airplane Rating(s):	None	Seat Occupied:	Unknown
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 Unknown	Last Medical Exam:	01/22/2013
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	03/30/2012
Flight Time:	(Estimated) 507 hours (Total, all aircraft), 242 hours (Total, this make and model), 44 hours (Last 90 days, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Manufacturer:	ROBINSON	Registration:	N554SA
Model/Series:	R22 - BETA BETA	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	1618
Landing Gear Type:	Skid;	Seats:	2
Date/Type of Last Inspection:		Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Unknown
Airframe Total Time:		Engine Manufacturer:	CONT MOTOR
ELT:	Not installed	Engine Model/Series:	TSIO-520 SER
Registered Owner:	Sun Aero Helicopters INC	Rated Power:	0 hp
Operator:	Sun Aero Helicopters INC	Air Carrier Operating Certificate:	None

## Meteorological Information and Flight Plan

Observation Facility, Elevation:	IGQ, 620 ft msl	Observation Time:	1715 CDT
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	0°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Scattered	Temperature/Dew Point:	22° C / 8° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	7 knots, 10°	Visibility (RVR):	
Altimeter Setting:	30.02 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:			
Departure Point:	Chicago, IL (IGQ)	Type of Flight Plan Filed:	Unknown
Destination:	Chicago, IL (IGQ)	Type of Clearance:	Unknown
Departure Time:	CDT	Type of Airspace:	Unknown

## Airport Information

Airport:	LANSING MUNI (IGQ)	Runway Surface Type:	Asphalt
Airport Elevation:	620 ft	Runway Surface Condition:	Unknown
Runway Used:	N/A	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

## Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None		

## Administrative Information

Investigator In Charge (IIC): Daniel Baker Adopted Date: 02/04/2014

**Additional Participating Persons:**

Publish Date: 02/04/2014

Note: This accident report documents the factual circumstances of this accident as described to the NTSB.

Investigation Docket: <http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=88293>

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