



National Transportation Safety Board Aviation Accident Data Summary

Location:	Pompano Beach, FL	Accident Number:	MIA05CA002
Date & Time:	10/02/2004, 1630 EDT	Registration:	N220CK
Aircraft:	Robinson R-22	Injuries:	2 Minor
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Analysis

The flight instructor stated that he and his student were on their fourth or fifth autorotation, and it looked as if they were going to overshoot the spot of intended landing, so they performed some "S" turns, and initiated a flare. He said during the flare the helicopter continued to descend, and it impacted the ground on the rear of the skids, severing the tail boom.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The flight crew's excessive descent rate during landing, resulting in a hard landing, and the tail boom being severed.

Findings

Occurrence #1: HARD LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. FLARE - MISJUDGED - PILOT IN COMMAND
2. (C) DESCENT - EXCESSIVE - FLIGHTCREW
3. MISC ROTORCRAFT,MAIN ROTOR/TAIL BOOM CONTACT

Flight Instructor Information

Certificate:	Flight Instructor; Commercial	Age:	30
Airplane Rating(s):	None	Instrument Rating(s):	Helicopter
Other Aircraft Rating(s):	Helicopter	Instructor Rating(s):	Helicopter
Flight Time:	1560 hours (Total, all aircraft), 1150 hours (Total, this make and model), 1500 hours (Pilot In Command, all aircraft), 265 hours (Last 90 days, all aircraft), 85 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Student Pilot Information

Certificate:	Student	Age:	52
Airplane Rating(s):	None	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	147 hours (Total, all aircraft), 100 hours (Total, this make and model), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Robinson	Registration:	N220CK
Model/Series:	R-22	Engines:	1 Reciprocating
Operator:	Helicopters of America	Engine Manufacturer:	Lycoming
Operating Certificate(s) Held:	None	Engine Model/Series:	O-360-J2A
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	PMP, 18 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	Broken / 3500 ft agl	Wind Speed/Gusts, Direction:	12 knots / , 100°
Temperature:	28° C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	Pompano Beach, FL (PMP)	Destination:	(PMP)

Airport Information

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

Wreckage and Impact Information

Crew Injuries:	2 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:	26.246944, -80.111111		

Administrative Information

Investigator In Charge (IIC):	John W Lovell	Adopted Date:	12/28/2004
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
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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