



National Transportation Safety Board Aviation Accident Data Summary

Location:	STERLING, MA	Accident Number:	NYC87LA217
Date & Time:	08/01/1987, 2020 EDT	Registration:	N9078Z
Aircraft:	ROBINSON R22	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Analysis

BEFORE FLYING SOLO, THE STUDENT PLT & HIS INSTRUCTOR (CFI) PRACTICED AUTOROTATIONS FOR ABOUT 1/2 HR. THE CFI DEPLANED & THE STUDENT TOOK OFF ON A SOLO FLT. HE FLEW TO A RESERVOIR AREA FOR MORE PRACTICE. AFTER DESCENDING FROM ABOUT 1000' TO 500', THE ENG LOST POWER. THE STUDENT MADE AN AUTOROTATION TO THE AN OPEN AREA NEAR THE RESERVOIR. HOWEVER, DURING TOUCHDOWN ON SLOPING TERRAIN, THE HELICOPTER ROLLED OVER. A POST-ACDNT EXAM WAS MADE, BUT NO ENG OR FUEL SYSTEM DISCREPANCIES WERE FOUND.

Probable Cause

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

Findings

Occurrence #1: LOSS OF ENGINE POWER
Phase of Operation: DESCENT

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2: FORCED LANDING
Phase of Operation: DESCENT - EMERGENCY

Findings

2. AUTOROTATION

Occurrence #3: ROLL OVER
Phase of Operation: LANDING

Findings

3. (F) TERRAIN CONDITION - ROUGH/UNEVEN
4. (F) LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND

Pilot Information

Certificate:	Student	Age:	27
Airplane Rating(s):	None	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	24 hours (Total, all aircraft), 24 hours (Total, this make and model), 2 hours (Pilot In Command, all aircraft), 24 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	ROBINSON	Registration:	N9078Z
Model/Series:	R22 R22	Engines:	1 Reciprocating
Operator:	AVIATION TRAINING ACADEMY	Engine Manufacturer:	LYCOMING
Operating Certificate(s) Held:	None	Engine Model/Series:	O-320-B2C
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:	, 0 ft msl	Weather Information Source:	Pilot
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	/ ,
Temperature:		Visibility	0 Miles
Precipitation and Obscuration:			
Departure Point:	STERLING, MA	Destination:	

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC):	VINCENT D MARCANTELLI	Adopted Date:	04/24/1989
Investigation Docket:	NTSB accident and incident docket 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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