



National Transportation Safety Board Aviation Accident Data Summary

Location:	Bourne, MA	Accident Number:	NYC06CA020
Date & Time:	11/01/2005, 1300 EST	Registration:	N319CD
Aircraft:	Robinson R44	Injuries:	1 Minor
Flight Conducted Under:	Part 91: General Aviation - External Load		

Analysis

The pilot was conducting external load operations, when a gust of wind blew the lifting strap into the tail rotor. The helicopter began to shudder, and rotate to the left. The pilot entered an autorotation; however, during landing, the helicopter rolled over onto its left side. Winds reported at an airport located about 4 miles east-southeast of the accident site, about the time of the accident, were from 200 degrees at 17 knots, with 23 knot gusts.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The inadvertent contact of a lift strap with the tail rotor during external load operations, which resulted in a forced landing and subsequent collision with terrain. A factor in this accident was the gusty wind conditions.

Findings

Occurrence #1: MISCELLANEOUS/OTHER
Phase of Operation: MANEUVERING

Findings

1. (C) OBJECT - OTHER
2. (F) WEATHER CONDITION - GUSTS

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

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: EMERGENCY DESCENT/LANDING

Findings

3. TERRAIN CONDITION - GROUND

Pilot Information

Certificate:	Commercial	Age:	39
Airplane Rating(s):	None	Instrument Rating(s):	None
Other Aircraft Rating(s):	Helicopter	Instructor Rating(s):	None
Flight Time:	731 hours (Total, all aircraft), 355 hours (Total, this make and model), 135 hours (Last 90 days, all aircraft), 65 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Robinson	Registration:	N319CD
Model/Series:	R44	Engines:	1 Reciprocating
Operator:	Firefly Leasing Inc.	Engine Manufacturer:	Lycoming
Operating Certificate(s) Held:	None	Engine Model/Series:	O-540
Flight Conducted Under:	Part 91: General Aviation - External Load		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	FMH, 131 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	Broken / 25000 ft agl	Wind Speed/Gusts, Direction:	17 knots / 23 knots, 200°
Temperature:	18°C	Visibility	15 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Wareham, MA (NONE)	Destination:	(NONE)

Airport Information

Airport:	Falmouth (FMH)	Runway Surface Type:	
Runway Used:	NA	Runway Surface Condition:	
Runway Length/Width:			

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:	41.677222, -70.600833		

Administrative Information

Investigator In Charge (IIC):	Luke Schiada	Adopted Date:	02/28/2006
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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