



Aviation Investigation Final Report

Location: LYLE, Washington Accident Number: SEA82DA050

Date & Time: April 9, 1982, 16:30 Local Registration: N11VH

Aircraft: BELL 47G-2A Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 137: Agricultural

Analysis

DURING TAKEOFF WITH A LOAD OF FERTILIZER, INSUFFICIENT POWER WAS AVAILABLE TO MAINTAIN ENGINE AND ROTOR RPM AND SUSTAIN FLIGHT. THE PILOT DUMPED THE LOAD, BUT WAS UNABLE TO AVOID GROUND CONTACT. THE TAIL ROTOR STRUCK FIRST AND SEPARATED FROM THE AIRCRAFT. THE DENSITY ALTITUDE WAS APPROXIMATELY 2800 FT. NO MECHANICAL FAILURES WERE REPORTED.

Probable Cause and Findings

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

Findings

Occurrence #1: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (F) WEATHER CONDITION - HIGH DENSITY ALTITUDE

- 2. (C) PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 3. LOAD JETTISON PERFORMED PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor; Private	Age:	34,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Helicopter	Second Pilot Present:	
Instructor Rating(s):	Helicopter	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	June 8, 1981
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	2892 hours (Total, all aircraft), 712 hours (Total, this make and model), 2839 hours (Pilot In Command, all aircraft), 95 hours (Last 90 days, all aircraft), 21 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	BELL	Registration:	N11VH
Model/Series:	47G-2A 47G-2A	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	2027
Landing Gear Type:	Skid	Seats:	3
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	2450 lbs
Time Since Last Inspection:	31 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	8119 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	VO-435-A1D
Registered Owner:	VALICOPTERS, INC.	Rated Power:	260 Horsepower
Operator:	VALICOPTERS, INC.	Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	30 miles
Lowest Ceiling:	Unknown	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	55°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	LYLE , WA	Type of Flight Plan Filed:	None
Destination:	LYLE , WA	Type of Clearance:	None
Departure Time:	16:30 Local	Type of Airspace:	

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Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:	0 ft msl	Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	48.460952,-122.22937(est)

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Administrative Information

Investigator In Charge (IIC):

Additional Participating

Persons:

Original Publish Date: April 9, 1983

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=71520

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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