

Aviation Investigation Final Report

Location:	BUENA, Washingto	on	Accident Number:	SEA84LA132
Date & Time:	June 14, 1984, 13:	45 Local	Registration:	N11VH
Aircraft:	BELL	47G2A	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 None
Flight Conducted Under:	Part 137: Agricultu	ıral		

Analysis

MAIN ROTOR BLADES CONTACTED A WIND MACHINE DURING AN AERIAL APPLICATION FLT. HELICOPTER SETTLED INTO TREES AND ROLLED OVER. PLT SAID HE KNEW THE MACHINE WAS THERE BUT HAD FORGOTTEN.

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 OBJECT Phase of Operation: MANEUVERING - AERIAL APPLICATION

Findings 1. (C) VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND 2. (C) CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND 3. (F) INATTENTIVE - PILOT IN COMMAND 4. OBJECT - TREE(S)

Occurrence #2: LOSS OF CONTROL - IN FLIGHT Phase of Operation: MANEUVERING - AERIAL APPLICATION Occurrence #3: ROLL OVER Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	39,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	January 24, 1984
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	4672 hours (Total, all aircraft), 1620 hours (Total, this make and model), 4443 hours (Pilot In Command, all aircraft), 75 hours (Last 90 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BELL	Registration:	N11VH
All Glaft Mare.	DELE	Registration.	
Model/Series:	47G2A 47G2A	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	2127
Landing Gear Type:	Skid	Seats:	3
Date/Type of Last Inspection:	December 15, 1983 100 hour	Certified Max Gross Wt.:	2850 lbs
Time Since Last Inspection:	71 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	8780 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	VO-435-A1E
Registered Owner:	VALICOPTERS, INC.	Rated Power:	240 Horsepower
Operator:	VALICOPTORS 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:	YKM ,1095 ft msl	Distance from Accident Site:	12 Nautical Miles
Observation Time:	13:48 Local	Direction from Accident Site:	305°
Lowest Cloud Condition:	Clear	Visibility	60 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	250°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	14°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	BUENA , WA	Type of Flight Plan Filed:	None
Destination:	BUENA , WA	Type of Clearance:	None
Departure Time:	12:35 Local	Type of Airspace:	Class G

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:	46.429267,-120.319808(est)

Administrative Information

Investigator In Charge (IIC):	Carrera, Candace	
Additional Participating Persons:	DELMAR RANDELS; SPOKANE , WA	
Original Publish Date:		
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=39935	

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.