



Aviation Investigation Final Report

Location: SARASOTA, Florida Accident Number: MIA89LA213

Date & Time: August 5, 1989, 14:30 Local Registration: N3550

Aircraft: BELL 47G-2 Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

THE STUDENT PLT OBSERVED THAT HE HAD LESS THAN FULL FUEL DURING HIS PREFLT INSPN; HOWEVER, HE THOUGHT HE WOULD HAVE ENOUGH FUEL FOR HIS INTENDED SOLO X-COUNTRY FLT. NEARING THE END OF HIS ROUND ROBIN FLT (ABOUT 1 MI FROM HIS HOME BASE), THE ENG LOST POWER. THE STUDENT MADE AN AUTOROTATION, BUT THE HELICOPTER HIT A TREE DURING THE LANDING.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE STUDENT PILOT'S INADEQUATE PREFLIGHT PLANNING/PREPARATION, WHICH RESULTED IN FUEL EXHAUSTION DUE TO AN INADEQUATE SUPPLY OF FUEL. FACTORS RELATED TO THE ACCIDENT WERE: THE STUDENT PILOT'S LACK OF TOTAL EXPERIENCE & TREE(S) IN THE EMERGENCY LANDING AREA.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL

Phase of Operation: APPROACH

Findings

1. (C) PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND

- 2. (C) FLUID, FUEL EXHAUSTION
- 3. (C) FUEL SUPPLY INADEQUATE PILOT IN COMMAND
- 4. (F) LACK OF TOTAL EXPERIENCE PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Findings

5. AUTOROTATION

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT

Phase of Operation: LANDING

Findings 6. (F) OBJECT - TREE(S)

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Factual Information

Pilot Information

Certificate:	Private	Age:	28,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	July 25, 1989
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	224 hours (Total, all aircraft), 44 hours (Total, this make and model), 114 hours (Last 90 days, all aircraft), 28 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BELL	Pagiatration:	N3550
All Claft Make.	DELL	Registration:	113330
Model/Series:	47G-2 47G-2	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	1942
Landing Gear Type:	Skid	Seats:	3
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	2450 lbs
Time Since Last Inspection:	0 Hrs	Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	VO-435-A1D
Registered Owner:		Rated Power:	200 Horsepower
Operator:	DOLPHIN AVIATION	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	SRQ ,14 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	13:50 Local	Direction from Accident Site:	270°
Lowest Cloud Condition:	Unknown	Visibility	10 miles
Lowest Ceiling:	Broken / 25000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	50°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-18°C / -18°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	SARASOTA , FL (SRQ)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	11:30 Local	Type of Airspace:	

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:	Forced landing

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:	

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Administrative Information

Investigator In Charge (IIC): Bird, Ronald

Additional Participating
Persons:

Original Publish Date: June 28, 1991

Last Revision Date:
Investigation Class: Class

Note:
Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=32474

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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