



Aviation Investigation Final Report

Location: EDEN PRAIRIE, Minnesota Accident Number: CHI84LA274

Date & Time: July 3, 1984, 14:30 Local Registration: N9487F

Aircraft: HUGHES 269B Aircraft Damage: Substantial

Defining Event: 2 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

THE CFI STATED THAT WHILE PRACTICING A PEDAL TURN THE STUDENT PILOT SUDDENLY APPLIED BACK CYLIC CAUSING THE TAIL ROTOR TO CONTACT THE GROUND. THE MAIN ROTOR THEN CONTACTED THE GROUND AND THE HELICOPTER ROLLED OVER.

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: HOVER

Findings

1. (C) CYCLIC - EXCESSIVE - DUAL STUDENT

2. (F) REMEDIAL ACTION - NOT POSSIBLE - PILOT IN COMMAND(CFI)

Occurrence #2: ROLL OVER Phase of Operation: HOVER

Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	26,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
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:	July 5, 1984
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	791 hours (Total, all aircraft), 219 hours (Total, this make and model), 620 hours (Pilot In Command, all aircraft), 113 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	HUGHES	Registration:	N9487F
Model/Series:	269B 269B	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	270313
Landing Gear Type:	Skid	Seats:	3
Date/Type of Last Inspection:	June 29, 1984 100 hour	Certified Max Gross Wt.:	1670 lbs
Time Since Last Inspection:	15 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2219 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	HIO-360-A1A
Registered Owner:	PAUL DAGNON	Rated Power:	180 Horsepower
Operator:		Operating Certificate(s) Held:	
Operator Does Business As:	DAGNON AVIATION	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:	FCM ,905 ft msl	Distance from Accident Site:	
Observation Time:	14:40 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Unknown / 3000 ft AGL	Visibility	15 miles
Lowest Ceiling:	Broken / 3000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	350°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	EDEN PRAIRE , MN (FCM)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	12:30 Local	Type of Airspace:	Class D

Airport Information

Airport:	FLYING CLOUD FMC	Runway Surface Type:	Asphalt
Airport Elevation:	905 ft msl	Runway Surface Condition:	Dry
Runway Used:	36	IFR Approach:	None
Runway Length/Width:	2991 ft / 75 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	44.909828,-93.290847(est)

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Administrative Information

Investigator In Charge (IIC):	Siegman, James
Additional Participating Persons:	
Original Publish Date:	
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=12681

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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