



Aviation Investigation Final Report

Location:	Chamblee, Georgia	Accident Number:	ERA22LA390
Date & Time:	August 27, 2022, 21:10 Local	Registration:	N6SD
Aircraft:	BELL TEXTRON CANADA LTD 505	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

According to the pilot, he was attempting to land the helicopter on a portable dolly, and he was following a marshaller to land on the dolly. As he lowered the collective, the helicopter’s skids fell off the back of the dolly, and the tail rotor struck the ground. The helicopter subsequently rolled over on its left side resulting in substantial damage to the main rotor and tail rotor systems. The pilot added that there were no mechanical issues with the helicopter.

Probable Cause and Findings

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

The pilot’s failure to ensure that the helicopter was properly positioned over a dolly before attempting to land on it, which resulted in a rollover.

Findings

Aircraft	Descent/approach/glide path - Not attained/maintained
Personnel issues	Identification/recognition - Pilot

Factual Information

History of Flight

Landing	Loss of control on ground (Defining event)
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Pilot Information

Certificate:	Private	Age:	52, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	Helicopter	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	April 22, 2022
Occupational Pilot:	No	Last Flight Review or Equivalent:	May 19, 2022
Flight Time:	3100 hours (Total, all aircraft), 50 hours (Total, this make and model), 2500 hours (Pilot In Command, all aircraft), 120 hours (Last 90 days, all aircraft), 40 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BELL TEXTRON CANADA LTD	Registration:	N6SD
Model/Series:	505	Aircraft Category:	Helicopter
Year of Manufacture:	2022	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	65414
Landing Gear Type:	High skid	Seats:	5
Date/Type of Last Inspection:	July 22, 2022 Unknown	Certified Max Gross Wt.:	3680 lbs
Time Since Last Inspection:	35 Hrs	Engines:	1 Turbo shaft
Airframe Total Time:	35 Hrs at time of accident	Engine Manufacturer:	Safran
ELT:	Installed, not activated	Engine Model/Series:	Arrius 2R
Registered Owner:		Rated Power:	500
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Dusk
Observation Facility, Elevation:	KPDK,979 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	21:53 Local	Direction from Accident Site:	96°
Lowest Cloud Condition:	Few / 6500 ft AGL	Visibility	10 miles
Lowest Ceiling:	Broken / 11000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	23°C / 22°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Aiken, SC (PVT)	Type of Flight Plan Filed:	None
Destination:	Chamblee, GA	Type of Clearance:	VFR flight following
Departure Time:	19:30 Local	Type of Airspace:	Class D

Airport Information

Airport:	DEKALB-PEACHTREE PDK	Runway Surface Type:	
Airport Elevation:	998 ft msl	Runway Surface Condition:	Dry
Runway Used:		IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Full stop

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	On-ground
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	33.878513,-84.303846(est)

Administrative Information

Investigator In Charge (IIC):	Boggs, Daniel		
Additional Participating Persons:	Mark Fayerman; FAA ATL; Atlanta, GA		
Original Publish Date:	May 11, 2023	Investigation Class:	4
Note:	The NTSB did not travel to the scene of this accident.		
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=105813		

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).