



Aviation Investigation Factual Report

Location:	Morgan City, Louisiana	Accident Number:	CEN23FA019
Date & Time:	October 26, 2022, 17:11 Local	Registration:	N34BM
Aircraft:	Bell 407	Aircraft Damage:	Destroyed
Defining Event:	Medical event	Injuries:	1 Fatal, 2 Serious
Flight Conducted Under:	Part 135: Air taxi & commuter - Non-scheduled		

On October 26, 2022, about 1711 central daylight time, a Bell 407 helicopter, N34BM, was destroyed when it was involved in an accident in the Gulf of Mexico, about 25 miles south of Morgan City, Louisiana. The pilot sustained fatal injuries, and two passengers sustained serious injuries. The helicopter was operated as a Title 14 *Code of Federal Regulations* Part 135 air taxi flight.

On the morning of the accident, the helicopter originated from the Westwind Helicopter base (IYA) in Abbeville, Louisiana, to transport two workers to several offshore platforms in the Gulf of Mexico to perform telecommunications work on the platforms. The flight arrived at the first platform, Green Canyon 18 (GC18), about 0848. The helicopter was refueled at GC18. They departed GC18 about 1402, proceeded to platform Ship Shoal 349 (SS349), and landed there about 1411. The crew had lunch on SS349. The helicopter departed SS349 about 1631 for the return flight to IYA.

About 1720, the operator received an "overdue" message from their Sky Connect flight following system. After many attempts to communicate with the pilot/helicopter, the operator launched a search helicopter (N1416) toward the accident helicopter's last known position. Search and rescue operations were coordinated with local authorities and the Coast Guard. About 1836, N1416 spotted the accident helicopter's wreckage floating in the water inverted with the skid-mounted float system deployed. Two survivors were seen clinging to the top (on the belly) of the helicopter.

The two surviving passengers were rescued by a Coast Guard helicopter and transported to a hospital. The helicopter wreckage position was marked and additional flotation was attached. The body of the pilot was recovered through coordinated efforts from the local authorities, the Coast Guard, and the operator. After the two survivors and the pilot's body were recovered, efforts were coordinated to recover the helicopter wreckage.

Both surviving passengers were interviewed at the hospital on October 27, 2022.

The surviving passenger who was seated in the left front seat of the helicopter stated they had loaded up the helicopter and left the SS349 platform and were heading back to the Westwind helicopter base at Abbeville, Louisiana. He said that they were flying about 1,500 ft above the water. He heard the pilot say something like, "this is not good," and, "I am not going to make it." The passenger asked the pilot if there was a problem with the helicopter. The pilot said something like, "it is not the helicopter, it is me." The passenger asked what was wrong, and the pilot said something like, "I'm overheating." Then, the pilot slumped over in his seat and was not responsive. The passenger estimated that the helicopter was about 400 ft above the water when he reached over to the pilot's flight controls and attempted to control the

helicopter. At some point during the descent, the skid-mounted float system was activated. The helicopter impacted the water and became inverted. The passenger exited out of the submerged cockpit and crawled onto the belly of the helicopter. The passenger stated that he suffered a broken back.

The surviving passenger who was seated in the right rear seat stated that he was taking a nap when he recognized that the sound of the helicopter engine had changed. He woke up and saw that the pilot was slumped over in his seat and the helicopter was headed toward the water. He stated that the passenger who was seated in the front left seat had reached over to the pilot's flight controls and was attempting to control the helicopter. The next thing that he recalled was that the helicopter was upside down in the water. He stated that he exited out of the cabin and climbed on top of the belly of the helicopter. He stated he fired a signal and put dye into the water. The passenger stated that he suffered a broken leg and several cuts and scratches.

Both passengers stated that the entire flight had been normal until the pilot became incapacitated.

The passengers stated that they saw a helicopter fly over top of them and guessed that the pilot of that helicopter called the location of the wreckage into the Coast Guard. Both passengers stated that their injuries prevented them from trying to find the pilot in the wreckage. While waiting for rescue, a small work boat, coordinated by Westwind, stayed until the Coast Guard arrived. They both stated that the Coast Guard eventually rescued them and transported them to the LSU Medical Center in New Orleans.

ADS-B data indicated that at 1710:26, the helicopter was flying in level flight about 1,400 ft mean sea level (msl). About 10 seconds later, the data showed the helicopter make a right descending turn to about 1,100 ft msl. About 5 seconds later, the data showed the helicopter make an abrupt left descending turn to about 800 ft msl. The data showed the helicopter continue to descend through 400 ft msl in a relatively straight flight path for about 11 seconds until the data stopped. The ADS-B data was consistent with the passenger accounts of the event.

Pilot Information

Certificate:	Airline transport	Age:	63, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	Helicopter	Restraint Used:	3-point
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 1 Without waivers/limitations	Last FAA Medical Exam:	October 12, 2022
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	October 3, 2022
Flight Time:	21435 hours (Total, all aircraft), 520 hours (Total, this make and model), 20000 hours (Pilot In Command, all aircraft), 191 hours (Last 90 days, all aircraft), 80 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Bell	Registration:	N34BM
Model/Series:	407	Aircraft Category:	Helicopter
Year of Manufacture:	1998	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	53310
Landing Gear Type:	Skid	Seats:	7
Date/Type of Last Inspection:	October 7, 2022 100 hour	Certified Max Gross Wt.:	5250 lbs
Time Since Last Inspection:		Engines:	1 Turbo shaft
Airframe Total Time:	15646 Hrs at time of accident	Engine Manufacturer:	Rolls Royce
ELT:	C126 installed, not activated	Engine Model/Series:	250-C47B
Registered Owner:	GULF HELICOPTERS LLC	Rated Power:	650 Horsepower
Operator:	Westwind Helicopters INC	Operating Certificate(s) Held:	On-demand air taxi (135)
Operator Does Business As:		Operator Designator Code:	IAVA

The helicopter was equipped with a single set of flight controls operated from the right front seat (pilot station). The helicopter was equipped with an Apical emergency float system. The floats were mechanically activated from a handle that was located on the pilot's cyclic control stick.

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KPTN,9 ft msl	Distance from Accident Site:	25 Nautical Miles
Observation Time:	17:55 Local	Direction from Accident Site:	300°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	330°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.99 inches Hg	Temperature/Dew Point:	18°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Offshore Platform SS349 Gulf of Mexico, LA	Type of Flight Plan Filed:	Company VFR
Destination:	Abbeville, LA (IYA)	Type of Clearance:	None
Departure Time:	16:31 Local	Type of Airspace:	Class G

Airport Information

Airport:	Patterson PTN	Runway Surface Type:	
Airport Elevation:	9 ft msl	Runway Surface Condition:	Water-choppy
Runway Used:		IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	2 Serious	Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	1 Fatal, 2 Serious	Latitude, Longitude:	29.141389,-91.617778(est)

After the accident, the position of the helicopter wreckage was located, marked, and additional flotation was attached. During the wreckage retrieval, the engine, transmission, flight controls, most of the cabin structure, tail boom, and main rotors were lost at sea due to rough, unfavorable sea conditions. The only parts of the helicopter wreckage that were recovered

were portions of the intermediate fuselage/ baggage compartment, and most of the landing gear skids. The skid-mounted floats were attached to the skids and were deployed. The wreckage examination was conducted on the deck of the recovery vessel when it docked.

Both skid and cross tubes were recovered. The forward cross tube strap assemblies were fractured. The aft cross tube remained attached to the fuselage. The floats remained attached to the skid tubes and had been deployed. Evidence showed that the float system was activated from the cockpit before water entry.

Flight recorders

According to the operator, the helicopter was equipped with an on-board an Appareo video recording system. The system was lost at sea and was not recovered.

Medical and Pathological Information

An autopsy of the pilot was performed by St Mary Parish Forensics, Broussard, Louisiana. According to the autopsy report, his cause of death was helicopter crash into ocean and his manner of death was accident. Coronary artery disease was present, including 30-40% narrowing of the left anterior descending coronary artery and right coronary artery by plaque. The heart muscle was described as diffusely softened. There was no focal scarring of the heart muscle although heart and kidney tissue showed some microscopic abnormalities. Severe aortic atherosclerosis and mild intracranial atherosclerosis were present. The remainder of the pilot's autopsy did not identify other significant natural disease.

According to medical records, the pilot had a history of high blood pressure treated with the prescription medication losartan. His primary physician was also an aviation medical examiner (AME). The pilot's last primary care visit and aviation medical examination were on October 12, 2022. At that time, his high blood pressure was qualified under conditions AMEs can issue (CACI) criteria. He was issued a first-class medical certificate limited by a requirement to have available glasses for near vision.

The FAA Forensic Sciences laboratory performed toxicological testing of postmortem specimens from the pilot. The testing detected ethanol at 0.024 g/dL in blood and 0.016 g/dL in urine. Some or all the ethanol detected may have been from postmortem production. N-propanol and losartan (unquantified) were also detected in blood and urine.

Administrative Information

Investigator In Charge (IIC):	Lemishko, Alexander
Additional Participating Persons:	Myron Billiot; FAA FSDO; Baton Rouge, LA Rob Phillips; Westwind Helicopters; Santa Fe, TX Beverley Harvey; TSB of Canada Accredited Representative; Quebec Gary Howe; Bell Tech Advisor to TSB of Canada; Fort Worth, TX
Report Date:	
Last Revision Date:	
Investigation Class:	Class 3
Note:	
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=106209

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