



# **Aviation Investigation Final Report**

Location: NEW HOPE, Pennsylvania Accident Number: NYC82DA089

Date & Time: May 10, 1982, 09:10 Local Registration: N5449C

Aircraft:

BELL 47G-3B (SOLOY CONVERSION)

Aircraft Damage: Substantial

Defining Event: Injuries: 1 None

Flight Conducted Under: Part 137: Agricultural

#### **Analysis**

WHILE MAKING A CLEANUP SWATH AROUND THE BOTTOM OF A HILL, THE HELICOPTER COLLIDED WITH WIRES. THE PILOT REPORTED THAT HE DID NOT SEE THE WIRES WHILE HOLDING HIS HEAD IN SUCH A MANNER AS TO REDUCE THE EFFECT OF SUN-GLARE. AFTER HITTING THE WIRES, THE PILOT LOST CONTROL OF THE HELICOPTER MOMENTARILY. HOWEVER, HE REGAINED CONTROL AND LANDED PAST THE WIRE.

### **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. (F) LIGHT CONDITION - SUNGLARE

- 2. (F) OBJECT WIRE, TRANSMISSION
- 3. (C) VISUAL LOOKOUT INADEQUATE PILOT IN COMMAND
- 4. VISUAL/AURAL DETECTION PILOT IN COMMAND
- 5. PRECAUTIONARY LANDING PERFORMED PILOT IN COMMAND

Page 2 of 5 NYC82DA089

## **Factual Information**

#### **Pilot Information**

Certificate:	Commercial	Age:	48,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):		Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	April 20, 1980
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	1742 hours (Total, this make and model)		

## **Aircraft and Owner/Operator Information**

Aircraft Make:	BELL 47G-3B	Registration:	N5449C
Model/Series:	(SOLOY CONVERSION) (SOLOY CON	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	3
Landing Gear Type:	Skid	Seats:	3
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	2860 lbs
Time Since Last Inspection:	22 Hrs	Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	ALLISON
ELT:	Not installed	Engine Model/Series:	250-C20B
Registered Owner:	BELLE AIRE INC.	Rated Power:	450 Horsepower
Operator:	BELLE AIRE INC.	Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	

Page 3 of 5 NYC82DA089

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Clear	Visibility	7 miles
Lowest Ceiling:	Unknown	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	130°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	65°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	NEW HOPE , PA	Type of Flight Plan Filed:	None
Destination:	NEW HOPE , PA	Type of Clearance:	None
Departure Time:	08:45 Local	Type of Airspace:	

## **Airport Information**

Airport:	DOYLESTOWN	Runway Surface Type:	
Airport Elevation:	0 ft msl	<b>Runway Surface Condition:</b>	
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:	40.359264,-74.949302(est)

Page 4 of 5 NYC82DA089

#### **Administrative Information**

Investigator In Charge (IIC):

Additional Participating
Persons:

Original Publish Date: May 10, 1983

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=71976

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.

Page 5 of 5 NYC82DA089