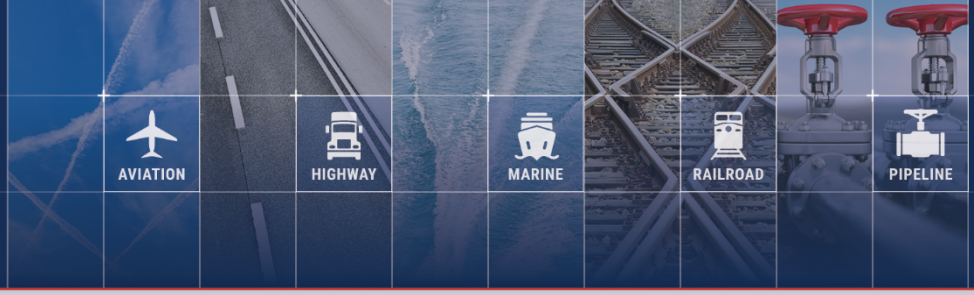

Aviation Investigation Final Report

Location:	ERIN, Tennessee	**Accident Number:**	ATL85LA121
Date & Time:	March 16, 1985, 14:45 Local	**Registration:**	N73DB
Aircraft:	Bell 47G	**Aircraft Damage:**	Substantial
Defining Event:		**Injuries:**	1 Minor, 2 None
Flight Conducted Under:	Part 91: General aviation		

Analysis

AFTER A POWER LOSS AT LOW ALT. DURING APPROACH TO TOUCHDOWN,THE PILOT BLED OFF ROTOR RPM ATTEMPTING TO CLEAR POWER LINES ACROSS HIS APPROACH PATH. THIS RESULTED IN A LACK OF ROTOR ENERGY NECESSARY FOR AN AUTOROTAITON LANDING. A HARD LANDING RESULTED. CARBURETOR HEAT WAS NOT USED EXCEPT DURING INITIAL RUNUP AND WEATHER CONDITIONS WERE FAVORABLE FOR CARBURETOR ICE FORMATION.

Probable Cause and Findings

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

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL
Phase of Operation: APPROACH

Findings
1. (F) WEATHER CONDITION - CARBURETOR ICING CONDITIONS
2. (C) ANTI-ICE/DEICE SYSTEM - NOT USED - PILOT IN COMMAND
3. (F) LACK OF TOTAL EXPERIENCE IN KIND OF AIRCRAFT - PILOT IN COMMAND

Occurrence #2: HARD LANDING
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Factual Information

Pilot Information

Certificate:	Commercial	**Age:**	24,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	**Seat Occupied:**	Left
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 Medical--no waivers/lim.	**Last FAA Medical Exam:**	July 24, 1984
Occupational Pilot:	UNK	**Last Flight Review or Equivalent:**	
Flight Time:	1154 hours (Total, all aircraft), 75 hours (Total, this make and model), 889 hours (Pilot In Command, all aircraft), 32 hours (Last 90 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Bell	**Registration:**	N73DB
Model/Series:	47G 47G	**Aircraft Category:**	Helicopter
Year of Manufacture:		**Amateur Built:**	
Airworthiness Certificate:	Normal	**Serial Number:**	1277 DBA
Landing Gear Type:	Skid	**Seats:**	3
Date/Type of Last Inspection:	February 22, 1985 100 hour	**Certified Max Gross Wt.:**	2350 lbs
Time Since Last Inspection:	345 Hrs	**Engines:**	1 Reciprocating
Airframe Total Time:	58689 Hrs	**Engine Manufacturer:**	FRANKLIN
ELT:	Not installed	**Engine Model/Series:**	6V-335-A
Registered Owner:	THOMAS. LUIPERSBECK	**Rated Power:**	200 Horsepower
Operator:		**Operating Certificate(s) Held:**	None
Operator Does Business As:		**Operator Designator Code:**	

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:**	
Lowest Cloud Condition:	Clear	**Visibility**	20 miles
Lowest Ceiling:	None	**Visibility (RVR):**	
Wind Speed/Gusts:	5 knots /	**Turbulence Type Forecast/Actual:**	/
Wind Direction:	270°	**Turbulence Severity Forecast/Actual:**	/
Altimeter Setting:		**Temperature/Dew Point:**	16°C / -18°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		**Type of Flight Plan Filed:**	None
Destination:		**Type of Clearance:**	None
Departure Time:	14:40 Local	**Type of Airspace:**	Class G

Airport Information

Airport:		**Runway Surface Type:**	
Airport Elevation:	0 ft msl	**Runway Surface Condition:**	
Runway Used:	0	**IFR Approach:**	
Runway Length/Width:	0 ft / 0 ft	**VFR Approach/Landing:**	

Wreckage and Impact Information

Crew Injuries:	1 None	**Aircraft Damage:**	Substantial
Passenger Injuries:	1 Minor, 1 None	**Aircraft Fire:**	None
Ground Injuries:	N/A	**Aircraft Explosion:**	None
Total Injuries:	1 Minor, 2 None	**Latitude, Longitude:**	36.310314,-87.699302(est)

Administrative Information

Investigator In Charge (IIC):	Stiner, Walter
Additional Participating Persons:	GENE BROSHEARS; NASHVILLE , TN
Original Publish Date:	
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=6763