

Aviation Investigation Final Report

RAIL ROAD

PIPELINE

Location:	SAFE HARBOR, Penns	sylvania	Accident Number:	NYC86LA099
Date & Time:	April 5, 1986, 03:45 L	ocal	Registration:	N221SC
Aircraft:	SIKORSKY	S-76	Aircraft Damage:	Substantial
Defining Event:			Injuries:	3 None
Flight Conducted Under:	Part 91: General aviat	tion		

Analysis

THE HELICOPTER WAS MANEUVERING AT LOW ALTITUDE, LOW AIRSPEED, WHILE ON A SEARCH AND RESCUE MISSION AT NIGHT, LOOKING FOR A CAPSIZED BOAT, WHEN IT IMPACTED THE WATER.

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: MANEUVERING

Findings

- 1. (F) TERRAIN CONDITION WATER, GLASSY
- 2. (F) LIGHT CONDITION DARK NIGHT
- 3. (C) BECAME LOST/DISORIENTED INADVERTENT PILOT IN COMMAND
- 4. (F) VISUAL LOOKOUT NOT MAINTAINED COPILOT/SECOND PILOT
- 5. (C) DESCENT CONTINUED PILOT IN COMMAND

Factual Information

Pilot Information

Oratificates		A	44 Mala
Certificate:	Airline transport	Age:	44,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	March 24, 1986
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	9880 hours (Total, all aircraft), 325 hours (Total, this make and model), 9533 hours (Pilot In Command, all aircraft), 155 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	SIKORSKY	Registration:	N221SC
Model/Series:	S-76 S-76	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	760177
Landing Gear Type:	Retractable - Tricycle	Seats:	14
Date/Type of Last Inspection:	February 27, 1986 Continuous airworthiness	Certified Max Gross Wt.:	10000 lbs
Time Since Last Inspection:		Engines:	2 Turbo shaft
Airframe Total Time:	1248 Hrs	Engine Manufacturer:	ALLISON
ELT:	Not installed	Engine Model/Series:	250-C30S
Registered Owner:	INTL. SIGNAL & CONTROL GROUP	Rated Power:	650 Horsepower
Operator:	INTERNATIONAL SINGAL CORP.	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:	Night/dark
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	13°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	LANCASTER , PA (LNS)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	03:30 Local	Type of Airspace:	Class G

Airport Information

Airport:		Runway Surface Type:	Water
Airport Elevation:		Runway Surface Condition:	Water-glassy
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	39.759437,-76.180267(est)

Administrative Information

Investigator In Charge (IIC):	Danhauer, Clifford
Additional Participating Persons:	
Original Publish Date:	April 25, 1988
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=30317

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 <u>here</u>.