



Aviation Investigation Final Report

Location: RUSH HILL, Missouri Accident Number: MKC88DCA02

Date & Time: August 8, 1988, 20:25 Local Registration: N7735V

Aircraft: CALLAIR A-9A Aircraft Damage: Substantial

Defining Event: 1 Serious

Flight Conducted Under: Part 137: Agricultural

Analysis

ABOUT 25 MINUTES AFTER SUNSET, THE AIRPLANE STRUCK A POWERLINE AND POLE DURING A SPRAY RUN. THE AIRPLANE STRUCK THE GROUND INVERTED.

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) OBJECT WIRE, TRANSMISSION
- 2. (F) OBJECT UTILITY POLE
- 3. (F) LIGHT CONDITION DUSK
- 4. (C) VISUAL LOOKOUT INADEQUATE PILOT IN COMMAND
- 5. (C) JUDGMENT POOR PILOT IN COMMAND
- 6. (C) VISUAL/AURAL PERCEPTION PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Page 2 of 5 MKC88DCA02

Factual Information

Pilot Information

Certificate:	Commercial	Age:	41,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	June 3, 1987
Occupational Pilot:	Yes Last Flight Review or Equivalent:		
Flight Time:	1425 hours (Total, all aircraft), 325 hours (Total, this make and model), 1425 hours (Pilot In Command, all aircraft), 45 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CALLAIR	Registration:	N7735V
		_	
Model/Series:	A-9A A-9A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	1488
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	June 30, 1988 100 hour	Certified Max Gross Wt.:	3400 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1800 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	O-540-B2A5
Registered Owner:	NORTHERN AVIATION	Rated Power:	235 Horsepower
Operator:	RAUFFNER SPRAY SERVICE	Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	RAF.

Page 3 of 5 MKC88DCA02

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Dusk
Observation Facility, Elevation:	STL,461 ft msl	Distance from Accident Site:	60 Nautical Miles
Observation Time:	21:00 Local	Direction from Accident Site:	300°
Lowest Cloud Condition:	Scattered / 25000 ft AGL	Visibility	15 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	180°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	31°C / 23°C
Precipitation and Obscuration:	N/A - None - Widespread du	st	
Departure Point:	MEXICO , MO (MEX)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	00:00 Local	Type of Airspace:	Class G

Airport Information

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

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious	Latitude, Longitude:	39.200473,-91.720237(est)

Page 4 of 5 MKC88DCA02

Administrative Information

Investigator In Charge (IIC): Torrini, Donald

Additional Participating
Persons:

Original Publish Date: December 29, 1989

Last Revision Date:

Investigation Class: Class
Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=34452

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 MKC88DCA02