

Aviation Investigation Final Report

Location:	DENISON, Texas	Accident Number:	FTW92LA012
Date & Time:	October 20, 1991, 15:50 Local	Registration:	N8560H
Aircraft:	NORTH AMERICAN NAVION	Aircraft Damage:	Substantial
Defining Event:		Injuries:	4 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

ACCORDING TO THE PILOT AND WITNESSES, THE AIRPLANE FAILED TO ESTABLISH AN ADEQUATE CLIMB FOLLOWING INITIAL LIFTOFF. IT CLEARED 20 FOOT TREES AT THE END OF THE RUNWAY, BUT DID NOT CLEAR A 30 FOOT POWER POLE CROSS BAR AND WIRES. THE TAKEOFF WAS ATTEMPTED IN CALM WINDS FROM A 1,500 FOOT SOD STRIP THAT HAD AN UPHILL SLOPE. PERFORMANCE DATA INDICATED THAT FOR THE CONDITIONS THAT EXISTED AT THE TIME, THE AIRPLANE REQUIRED AN 875 FOOT GROUND RUN AND 1,775 FEET TO CLEAR A 50 FOOT OBSTACLE. THE AIRPLANE STRUCK THE POWER POLE 1800 FEET FROM THE DEPARTURE END OF THE RUNWAY. THE PERFORMANCE DATA DID NOT TAKE INTO ACCOUNT THE SOD RUNWAY OR THE UPSLOPE. THE PILOT SAID IN HIS REPORT THAT GIVEN THE OPPORTUNITY TO DO IT AGAIN, HE WOULD NOT HAVE ATTEMPTED THE TAKEOFF UNDER THE SAME CONDITIONS.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE EXCEEDING OF THE AIRPLANE'S TAKEOFF PERFORMANCE CAPABILITY BY THE PILOT'S INADEQUATE PREFLIGHT PREPARATION..

Findings

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: TAKEOFF - INITIAL CLIMB Findings 1. OBJECT - UTILITY POLE 2. (C) AIRCRAFT PERFORMANCE, TAKEOFF CAPABILITY - EXCEEDED 3. (C) PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Private	Age:	58,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
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 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	October 16, 1991
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	1100 hours (Total, all aircraft), 185 hours (Total, this make and model), 1040 hours (Pilot In Command, all aircraft), 22 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	NORTH AMERICAN	Registration:	N8560H
Model/Series:	NAVION NAVION	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	NAV-4-612
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	October 11, 1991 Annual	Certified Max Gross Wt.:	2750 lbs
Time Since Last Inspection:	1 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	4210 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	E-185-11
Registered Owner:	DEAN S. EMERSON	Rated Power:	185 Horsepower
Operator:	DEAN S. EMERSON	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:	Unknown	Visibility	15 miles
Lowest Ceiling:	Broken / 15000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	360°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	22°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	15:50 Local	Type of Airspace:	Class G

Airport Information

Airport:	KIDD TX12	Runway Surface Type:	Grass/turf
Airport Elevation:	700 ft msl	Runway Surface Condition:	Dry
Runway Used:	35	IFR Approach:	None
Runway Length/Width:	1550 ft / 60 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	3 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	4 None	Latitude, Longitude:	33.749359,-96.560844(est)

Administrative Information

Investigator In Charge (IIC):	Wandel, Warren	
Additional Participating Persons:	RICHARD NANCE; DALLAS , TX	
Original Publish Date:	April 8, 1993	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=18401	

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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.