

National Transportation Safety Board Aviation Accident Final Report

Location: FORT BELVOIR, VA Accident Number: DCA83AA019

Date & Time: 03/11/1983, 0258 EST **Registration:** N120AE

Aircraft: PIPER PA-31-350-T1020 Aircraft Damage: Substantial

Defining Event: Injuries: 1 Serious, 1 Minor

Flight Conducted Under: Part 135: Air Taxi & Commuter - Non-scheduled

Analysis

ON A FLT FROM NEWARK, NJ TO RICHMOND, VA, THE DEPARTURE TIME WAS DELAYED, AND SUBSEQUENTLY, THE ACFT DID NOT ARRIVE AT RICHMOND UNTIL AFTER THE REFUELING FACILITIES WERE CLOSED. THE PLT DECIDED THERE WAS SUFFICIENT FUEL ABOARD TO COMPLETE THE NEXT FLT TO THE WASHINGTON NATIONAL ARPT, SO HE DEPARTED ON THAT FLT. HOWEVER, ABOUT 21 MI FROM HIS DESTINATION, HE DECLARED A LOW-FUEL STATE & REQUESTED VECTORS TO THE NEAREST ARPT. VECTORS WERE PROVIDED TOWARD DAVIDSON ARMY AIRFIELD. HOWEVER, BOTH ENGS SUBSEQUENTLY LOST POWER FROM LACK OF FUEL & THE ACFT CRASHED IN A WOODED AREA APRX 500 YDS SHORT OF RWY 32.

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) FLUID, FUEL LACK OF
- 2. (F) FUEL CONSUMPTION CALCULATIONS IMPROPER PILOT IN COMMAND
- 3. (C) AIRCRAFT PREFLIGHT INADEQUATE PILOT IN COMMAND
- 4. (F) FLUID, FUEL LOW LEVEL
- 5. (C) DELAYED PILOT IN COMMAND
- 6. (C) FLUID, FUEL EXHAUSTION
- 7. (C) FUEL SUPPLY INADEQUATE PILOT IN COMMAND

Occurrence #2: FORCED LANDING Phase of Operation: LANDING

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT

Phase of Operation: LANDING

Findings

8. (F) LIGHT CONDITION - DARK NIGHT

9. (F) OBJECT - TREE(S)

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Factual Information

Pilot Information

Certificate:	Airline Transport	Age:	39, Male
Airplane Rating(s):	Multi-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):		Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane Multi-engine; Instrument Airplane	Toxicology Performed:	
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	12/07/1982
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	5675 hours (Total, all aircraft), 120 hours (Total, this make and model), 250 hours (Last 90 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N120AE
Model/Series:	PA-31-350-T1020 PA-31-350-	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	31-8253006
Landing Gear Type:	Retractable - Tricycle	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	7000 lbs
Time Since Last Inspection:		Engines:	2 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, activated	Engine Model/Series:	TIO-540
Registered Owner:	ASREC AIR EAST, INC.	Rated Power:	350 hp
Operator:	ASREC AIR EAST,INC.	Operating Certificate(s) Held:	Commuter Air Carrier (135)

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	DCA, 25 ft msl	Distance from Accident Site:	8 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	0 Miles
Lowest Ceiling:	Unknown / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-18°C / -18°C
Precipitation and Obscuration:			
Departure Point:	RICHMOND, VA (RIC)	Type of Flight Plan Filed:	IFR
Destination:	WASHINGTON, DC (DCA)	Type of Clearance:	IFR
Departure Time:	0000	Type of Airspace:	Class E

Airport Information

Airport:	DAVIDSON ARMY AIRFIELD	Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	32	IFR Approach:	
Runway Length/Width:		VFR Approach/Landing:	Forced Landing

Wreckage and Impact Information

Crew Injuries:	1 Serious, 1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious, 1 Minor	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	EDWARD	C MONTGOMERY	Report Date:
Additional Participating Persons:			
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at publing@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.ntsb.gov/pubdms/ .		

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The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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