

National Transportation Safety Board Aviation Accident Final Report

Location:	ENUMCLAW, WA	Accident Number:	SEA91FA025
Date & Time:	11/29/1990, 1110 PST	Registration:	N13UW
Aircraft:	PIPER PA31	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	4 Serious, 1 Minor
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

DURING A CROSS COUNTRY FLIGHT, THE PILOT FAILED TO PLAN FOR THE EFFECTS OF KNOWN ADVERSE WEATHER, INCLUDING STRONG WINDS ALOFT AND MOUNTAIN WAVE ACTIVITY. THE PILOT OVERFLEW SEVERAL POSSIBLE FUEL STOPS, CONTINUING ON TOWARD THE DESTINATION UNTIL THE FUEL WAS EXHAUSTED. THE AIRPLANE COLLIDED WITH HEAVILY WOODED TERRAIN AFTER THE LOSS OF POWER TO BOTH ENGINES.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: FUEL EXHAUSTION DUE TO INADEQUATE PREFLIGHT PLANNING AND PREPARATIONS, AND POOR INFLIGHT PLANNING AND DECISIONS. THE PILOT ELECTED TO FLY INTO KNOWN ADVERSE WEATHER CONDITIONS, AND DID NOT CALCULATE FUEL CONSUMPTION FOR THE PLANNED FLIGHT.

Findings

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

Findings

- 1. (C) FLUID, FUEL EXHAUSTION
- 2. (F) FUEL CONSUMPTION CALCULATIONS NOT PERFORMED PILOT IN COMMAND
- 3. (C) PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 4. (C) IN-FLIGHT PLANNING/DECISION POOR PILOT IN COMMAND

Occurrence #2: FORCED LANDING Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: DESCENT - EMERGENCY

Findings 5. (F) OBJECT - TREE(S)

Factual Information

Pilot Information

Certificate:	Private	Age:	46, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	10/18/1990
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	638 hours (Total, all aircraft), 559 hours (Total, this make and model), 482 hours (Pilot In Command, all aircraft), 20 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N13UW
Model/Series:	PA31 PA31	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:		Serial Number:	31-512
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	6500 lbs
Time Since Last Inspection:	0 Hours	Engines:	2 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, activated	Engine Model/Series:	TIO-540-J2BD
Registered Owner:		Rated Power:	350 hp
Operator:	BRAMWELL, STEVEN T	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Day
Observation Facility, Elevation:	BOE, 18 ft msl	Distance from Accident Site:	30 Nautical Miles
Observation Time:	1100 PST	Direction from Accident Site:	284°
Lowest Cloud Condition:	Scattered / 1500 ft agl	Visibility	4 Miles
Lowest Ceiling:	Broken / 3500 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	15 knots / 25 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	225°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-18°C / -18°C
Precipitation and Obscuration:			
Departure Point:	PROVO, UT (PVU)	Type of Flight Plan Filed:	IFR
Destination:	EVERETT, WA (PAE)	Type of Clearance:	IFR
Departure Time:	0743 MST	Type of Airspace:	

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Destroyed
Passenger Injuries:	3 Serious, 1 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	4 Serious, 1 Minor	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	DEBRA J ECKROTE	Report Date:	11/23/1992
Additional Participating Persons:	HAROLD HUTCHINS; SEATTLE, WA		
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 <u>pubing@ntsb.gov</u> , or at 800-877-6799. Dockets released after this date are available at <u>http://dms.ntsb.gov/pubdms/</u> .		

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 <u>here</u>.