



National Transportation Safety Board Aviation Accident Final Report

Location:	CHELAN, WA	Accident Number:	SEA91LA226
Date & Time:	09/01/1991, 1215 PDT	Registration:	N4111K
Aircraft:	RYAN NAVION	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None

Flight Conducted Under: Part 91: General Aviation - Personal

Analysis

JUST AFTER TAKE OFF, THE AIRPLANE ENCOUNTERED A DOWN DRAFT. THE PILOT LOWERED THE NOSE OF THE AIRPLANE TO INCREASE AIRSPEED AND MADE A RIGHT TURN PASSING OVER BUILDINGS, HANGARS, AND THE PARKING RAMP. THE AIRPLANE COMPLETED A 360 DEGREE TURN AND THE RIGHT WING CONTACTED THE RAMP. THE PILOT WAS ABLE TO CONTINUE TO FLY THE AIRPLANE AND RETURNED FOR LANDING WITHOUT FURTHER INCIDENT.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: POOR IN FLIGHT PLANNING/DECISION BY THE PILOT IN COMMAND. FACTORS TO THE ACCIDENT WERE: DOWN DRAFTS, PROPER ALIGNMENT WAS NOT MAINTAINED AND INADEQUATE REMEDIAL ACTION.

Findings

Occurrence #1: IN FLIGHT ENCOUNTER WITH WEATHER
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (F) WEATHER CONDITION - DOWNDRAFT

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: MANEUVERING

Findings

2. TERRAIN CONDITION - RUNWAY
3. (F) PROPER ALIGNMENT - NOT MAINTAINED - PILOT IN COMMAND
4. (F) REMEDIAL ACTION - INADEQUATE - PILOT IN COMMAND
5. (C) IN-FLIGHT PLANNING/DECISION - POOR - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Private	Age:	25, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	09/22/1990
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	135 hours (Total, all aircraft), 19 hours (Total, this make and model), 75 hours (Pilot In Command, all aircraft), 19 hours (Last 90 days, all aircraft), 19 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	RYAN	Registration:	N4111K
Model/Series:	NAVION NAVION	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:		Serial Number:	NAV-4-1111
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	3233 lbs
Time Since Last Inspection:	0 Hours	Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	O-470
Registered Owner:		Rated Power:	205 hp
Operator:	DONALD V. HANKS	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	30 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	13 knots / 20 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	280°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-18°C / -18°C
Precipitation and Obscuration:			
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	0000	Type of Airspace:	

Airport Information

Airport:	CHELAN (S10)	Runway Surface Type:	Asphalt
Airport Elevation:	1263 ft	Runway Surface Condition:	Dry
Runway Used:	2	IFR Approach:	None
Runway Length/Width:	3539 ft / 60 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	Debra J Eckrote	Report Date:	05/27/1993
Additional Participating Persons:	DICK HAMM; RENTON, 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 pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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](#).