

Aviation Investigation Final Report

Location:	GIRDWOOD, Alaska	а	Accident Number:	ANC89LA036
Date & Time:	January 21, 1989, ⁻	16:00 Local	Registration:	N4280Z
Aircraft:	PIPER	PA-18	Aircraft Damage:	Substantial
Defining Event:			Injuries:	2 None
Flight Conducted Under:	Part 91: General av	viation - Personal		

Analysis

THE AIRLINE TRANSPORT PILOT LANDED UP-SLOPE ON A GLACIER AND WAS TURNING TO TAKEOFF DOWN-SLOPE WHEN TAILWIND AND 10-20 DEGREE SLOPE CAUSED THE AIRCRAFT TO TURN THROUGH THE DESIRED TAKEOFF HEADING, AND TO SLIDE SIDEWAYS. THE RIGHT SKI DUG INTO THE SNOW, CAUSING THE RIGHT MAIN LANDING GEAR TO COLLAPSE, AND THE RIGHT WING TO CONTACT THE FROZEN SURFACE. THE CRASH SITE ELEVATION WAS ABOUT 4,400 FEET MSL.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S FAILURE TO MAINTAIN CONTROL OF THE AIRPLANE WHILE ATTEMPTING TO TAKEOFF FROM A SLOPED TERRAIN THAT WAS TOO STEEP FOR A SAFE OPERATION. CONTRIBUTING TO THE ACCIDENT WAS THE DOWNHILL, ICY TERRAIN CONDITIONS AND THE PILOT'S OVERCONFIDENCE IN BOTH HIS AND THE AIRPLANE'S ABILITY..

Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER Phase of Operation: TAXI - TO TAKEOFF

Findings 1. (F) TERRAIN CONDITION - DOWNHILL 2. (F) TERRAIN CONDITION - ICY 3. (C) UNSUITABLE TERRAIN OR TAKEOFF/LANDING/TAXI AREA - SELECTED - PILOT IN COMMAND
4. (F) OVERCONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND
5. (F) OVERCONFIDENCE IN AIRCRAFT'S ABILITY - PILOT IN COMMAND

Occurrence #2: GEAR COLLAPSED Phase of Operation: TAXI - TO TAKEOFF

Occurrence #3: DRAGGED WING, ROTOR, POD, FLOAT OR TAIL/SKID Phase of Operation: TAXI - TO TAKEOFF

Factual Information

Pilot Information

Certificate:	Airline transport	Age:	45,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land; Multi- engine sea	Seat Occupied:	Front
Other Aircraft Rating(s):	Glider	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	January 17, 1989
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	21000 hours (Total, all aircraft), 300 hours (Total, this make and model), 20000 hours (Pilot In Command, all aircraft), 30 hours (Last 90 days, all aircraft), 20 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N4280Z
Model/Series:	PA-18 PA-18	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	188528
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	May 14, 1988 Annual	Certified Max Gross Wt.:	1750 lbs
Time Since Last Inspection:	20 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	5174 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	0-320
Registered Owner:	MEJO DKON RUCKMAN	Rated Power:	150 Horsepower
Operator:	GERALD G. CHISUM	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

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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:	Clear	Visibility	60 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	30°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	GIRDWOOD , AK	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	15:30 Local	Type of Airspace:	Class G

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:	0 ft msl	Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	0 ft / 0 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:	60.900436,-148.909088(est)

Administrative Information

Investigator In Charge (IIC):	Daw, Roy
Additional Participating Persons:	
Original Publish Date:	September 28, 1990
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=5161

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 <u>here</u>.