



National Transportation Safety Board Aviation Accident Final Report

Location:	TWIN FALLS, ID	Accident Number:	SEA87MA192
Date & Time:	09/24/1987, 2325 MDT	Registration:	N2689E
Aircraft:	FAIRCHILD SA227-AC	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	1 Serious, 2 Minor

Flight Conducted Under: Part 91: General Aviation - Instructional

Analysis

CHK PLT WAS CONDUCTING CAPT PROFICIENCY CHK ON ANOTHER COMPANY PLT (PIC) UNDER DARK NGT CONDTNS. SUBSEQUENT TO FULL STOP LDG ON RWY 25, TAKEOFF CHKLST WAS RECITED. PIC COMMENCED T/O ON RWY 07. CHK PLT SIMULATED VI ENG CUT AFTER LIFTOFF. PIC WAS UNABLE TO ACCEL TO V₂, CLIMB, OR MAINTAIN DIRECTNL CONTRL. ACFT LEVELLED OFF, A/S BEGAN TO DECAY & ACFT DRIFTED TO THE RIGHT. CHK CAPT FAILED TO TAKE CNTRL OR TERMINATE ENG CUT SIMULATION AS EVOLUTION DETERIORATED. ACFT COLLIDED WITH ILS GS TWR MARKED BY RED OBST LIGHTS. LOSS OF CNTRL FOLLOWED WHEN RGT WINGTIP/AILERON SEPARATED. ACFT THEN IMPACTED GND AND SLID TO A STOP. TKOF FLAP POSITION SHOULD BE 1/4. BOTH FLAPS FOUND NEAR 1/2 FLAP EXTENDED POSITION. HANDLE FOUND IN 1/2 FLAP DETENT. PERFMNC CHARTS SHOW ACFT ABL TO REACH V₂ AT 50 FT ALT IN 6500 FT ROLL, THEN +575 FPM CLIMB (VYSE) AT ACC WT.

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
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND
2. (C) RAISING OF FLAPS - NOT PERFORMED
3. (C) CHECKLIST - INATTENTIVE - PILOT IN COMMAND
4. (F) EMERGENCY PROCEDURE - SIMULATED - CHECK PILOT
5. PROPER CLIMB RATE - NOT POSSIBLE
6. DIRECTIONAL CONTROL - NOT POSSIBLE
7. (C) SUPERVISION - INADEQUATE - CHECK PILOT

Occurrence #2: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

8. (F) OBJECT - TOWER(MARKED)
9. WING, WINGTIP - SEPARATION
10. FLIGHT CONTROL,AILERON - LOSS,PARTIAL

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Airline Transport; Flight Instructor	Age:	42, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane	Toxicology Performed:	Yes
Medical Certification:	Class 1 Valid Medical--w/ waivers/lim.	Last Medical Exam:	03/12/1987
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	5800 hours (Total, all aircraft), 2000 hours (Total, this make and model), 5300 hours (Pilot In Command, all aircraft), 114 hours (Last 90 days, all aircraft), 44 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	FAIRCHILD	Registration:	N2689E
Model/Series:	SA227-AC SA227-AC	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	AC-653
Landing Gear Type:	Retractable - Tricycle	Seats:	21
Date/Type of Last Inspection:	Continuous Airworthiness	Certified Max Gross Wt.:	14500 lbs
Time Since Last Inspection:	92 Hours	Engines:	2 Turbo Prop
Airframe Total Time:	774 Hours	Engine Manufacturer:	GARRETT
ELT:	Installed, not activated	Engine Model/Series:	TPE-331-11U
Registered Owner:	MARYLAND NAT'L LEASING CORP.	Rated Power:	1000 hp
Operator:	HORIZON AIR INDUSTRIES, INC.	Air Carrier Operating Certificate:	Commuter Air Carrier (135); Flag carrier (121)
Operator Does Business As:	HORIZON AIR	Operator Designator Code:	QXEA

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	BYI, 4150 ft msl	Observation Time:	2350 MDT
Distance from Accident Site:	31 Nautical Miles	Direction from Accident Site:	65°
Lowest Cloud Condition:	Thin Broken / 20000 ft agl	Temperature/Dew Point:	15°C / 4°C
Lowest Ceiling:	None / 0 ft agl	Visibility	15 Miles
Wind Speed/Gusts, Direction:	Calm	Visibility (RVR):	0 ft
Altimeter Setting:	29 inches Hg	Visibility (RVV):	0 Miles
Precipitation and Obscuration:			
Departure Point:	TWIN FALLS, ID (TWF)	Type of Flight Plan Filed:	Company VFR
Destination:		Type of Clearance:	None
Departure Time:	2230 MDT	Type of Airspace:	Class G

Airport Information

Airport:	JOSLIN FIELD	Runway Surface Type:	Asphalt
Airport Elevation:	4150 ft	Runway Surface Condition:	Wet
Runway Used:	7	IFR Approach:	None
Runway Length/Width:	8703 ft / 150 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	STEVEN A MCCREARY	Adopted Date:	12/12/1988
Additional Participating Persons:	R PATZKE; SEATTLE, WA A ZANUZOSKI; SEATTLE, WA J MORGAN; SAN ANTONIO, TX		
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/ .		

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