



National Transportation Safety Board Aviation Accident Final Report

Location:	DENVER, CO	Accident Number:	DEN90FA068
Date & Time:	02/27/1990, 1947 MST	Registration:	N820FE
Aircraft:	CESSNA 208A	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	1 Fatal
Flight Conducted Under:	Part 135: Air Taxi & Commuter - Non-scheduled		

Analysis

THE CESSNA 208A WAS ON AN IFR FLT TO HAUL FREIGHT FROM ASPEN TO DENVER, COLORADO. MODERATE TO HEAVY ICING CONDITIONS WERE FORECAST FOR THE DENVER AREA. WHILE ON AN ILS RWY 36 APCH, THE ACFT ENCOUNTERED ICING CONDITIONS. SUBSEQUENTLY, IT ENTERED A STEEP DESCENT & CRASHED ABOUT 3 MI FROM THE APCH END OF THE RWY. NO PREIMPACT PART FAILURE OF THE ACFT WAS FOUND DURING THE INVESTIGATION. THE 1950 MST WX AT THE ARPT WAS IN PART: 800' SCATTERED, 1000' BROKEN, VIS 4 MI WITH FREEZING DRIZZLE & SNOW SHOWERS, TEMP 28 DEG, DEW POINT 25 DEG.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE ACCUMULATION OF STRUCTURAL ICE AND SUBSEQUENT STALLING OF THE AIRCRAFT. THE ICING CONDITION WAS A RELATED FACTOR.

Findings

Occurrence #1: IN FLIGHT ENCOUNTER WITH WEATHER

Phase of Operation: APPROACH - FAF/OUTER MARKER TO THRESHOLD (IFR)

Findings

1. LIGHT CONDITION - DARK NIGHT
2. WEATHER CONDITION - LOW CEILING
3. (F) WEATHER CONDITION - DRIZZLE/MIST
4. (F) WEATHER CONDITION - SNOW
5. (F) WEATHER CONDITION - ICING CONDITIONS
6. (C) WING - ICE

Occurrence #2: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: APPROACH - FAF/OUTER MARKER TO THRESHOLD (IFR)

Findings

7. (C) STALL - INADVERTENT

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Airline Transport; Commercial	Age:	53, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	Yes
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last Medical Exam:	01/12/1990
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	3800 hours (Total, all aircraft), 70 hours (Total, this make and model), 3345 hours (Pilot In Command, all aircraft), 70 hours (Last 90 days, all aircraft), 25 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N820FE
Model/Series:	208A 208A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	2080043
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	01/25/1990, 100 Hour	Certified Max Gross Wt.:	8035 lbs
Time Since Last Inspection:	47 Hours	Engines:	1 Turbo Prop
Airframe Total Time:	3227 Hours	Engine Manufacturer:	P&W
ELT:	Installed, not activated	Engine Model/Series:	PT6A-114
Registered Owner:	FEDERAL EXPRESS	Rated Power:	600 hp
Operator:	P. M. AIR, INC.	Air Carrier Operating Certificate:	On-demand Air Taxi (135)
Operator Does Business As:		Operator Designator Code:	PAZ

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	DEN, 5333 ft msl	Observation Time:	1950 MST
Distance from Accident Site:	4 Nautical Miles	Direction from Accident Site:	10°
Lowest Cloud Condition:	Scattered / 800 ft agl	Temperature/Dew Point:	-2° C / -4° C
Lowest Ceiling:	Broken / 1000 ft agl	Visibility	4 Miles
Wind Speed/Gusts, Direction:	11 knots, 30°	Visibility (RVR):	0 ft
Altimeter Setting:	30 inches Hg	Visibility (RVV):	0 Miles
Precipitation and Obscuration:			
Departure Point:	ASPEN, CO (ASE)	Type of Flight Plan Filed:	IFR
Destination:	(DEN)	Type of Clearance:	IFR
Departure Time:	1845 MST	Type of Airspace:	Class E

Airport Information

Airport:	STAPLETON INTL (DEN)	Runway Surface Type:	Concrete
Airport Elevation:	5333 ft	Runway Surface Condition:	Snow--wet
Runway Used:	36	IFR Approach:	ILS
Runway Length/Width:	7750 ft / 100 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Fatal	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	NORMAN F WIEMEYER	Adopted Date:	06/02/1992
Additional Participating Persons:	PETE RIGGS; PHEONIX, AZ ANSTON LANG; MONTREAL, CD GARY CHEATUM; WICHITA, KS LARRY ROSS; DENVER, CO		
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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