



National Transportation Safety Board Aviation Accident Final Report

Location:	Ankeny, IA	Accident Number:	CHI08CA074
Date & Time:	02/05/2008, 1320 CST	Registration:	N120SC
Aircraft:	Swearingen SA-226AT	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 135: Air Taxi & Commuter - Non-scheduled		

Analysis

The pilot reported that it was snowing during his preflight activities and takeoff roll. A snowplow operator stated that he had cleared approximately four passes on either side of the runway centerline when the accident airplane taxied onto the runway. The pilot back-taxed on the departure runway to determine how much snow covered the runway. During the subsequent takeoff roll, at approximately 80 knots, the left main landing gear encountered some deeper snow that caused the airplane to swerve left off of the runway centerline. The pilot attempted to correct the left swerve with right rudder input, but the airplane continued off the left side of the runway. The airplane was substantially damaged when its nose landing gear impacted a snowbank.

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 directional control during the takeoff roll. Contributing to the accident was the snow on the runway and the snowbank.

Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: TAKEOFF - ROLL/RUN

Findings

1. (F) TERRAIN CONDITION - SNOW COVERED
2. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: TAKEOFF - ROLL/RUN

Findings

3. (F) TERRAIN CONDITION - SNOWBANK

Factual Information

Pilot Information

Certificate:	Airline Transport; Commercial	Age:	54, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane	Toxicology Performed:	No
Medical Certification:	Class 2 With Waivers/Limitations	Last Medical Exam:	10/01/2007
Occupational Pilot:		Last Flight Review or Equivalent:	11/01/2007
Flight Time:	13340 hours (Total, all aircraft), 4500 hours (Total, this make and model), 12850 hours (Pilot In Command, all aircraft), 131 hours (Last 90 days, all aircraft), 57 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	Swearingen	Registration:	N120SC
Model/Series:	SA-226AT	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	AT067
Landing Gear Type:	Retractable - Tricycle	Seats:	2
Date/Type of Last Inspection:	02/01/2008, AAIP	Certified Max Gross Wt.:	12500 lbs
Time Since Last Inspection:		Engines:	2 Turbo Prop
Airframe Total Time:	21600 Hours	Engine Manufacturer:	Honeywell
ELT:	Installed, not activated	Engine Model/Series:	TPE-331-10UA
Registered Owner:	McNeely Charter Service, Inc.	Rated Power:	840 hp
Operator:	McNeely Charter Service, Inc.	Air Carrier Operating Certificate:	On-demand Air Taxi (135)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Day
Observation Facility, Elevation:	IKV, 910 ft msl	Observation Time:	1315 CST
Distance from Accident Site:	0 Nautical Miles	Direction from Accident Site:	
Lowest Cloud Condition:		Temperature/Dew Point:	-1° C / -2° C
Lowest Ceiling:	Overcast / 500 ft agl	Visibility	0.75 Miles
Wind Speed/Gusts, Direction:	7 knots, 30°	Visibility (RVR):	
Altimeter Setting:	29.91 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	Light - Snow		
Departure Point:	Ankeny, IA (IKV)	Type of Flight Plan Filed:	IFR
Destination:	Miami, FL (OPF)	Type of Clearance:	IFR
Departure Time:	1315 CST	Type of Airspace:	

Airport Information

Airport:	Ankeny Regional Airport (IKV)	Runway Surface Type:	Concrete
Airport Elevation:	910 ft	Runway Surface Condition:	Snow
Runway Used:	36	IFR Approach:	None
Runway Length/Width:	5500 ft / 100 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	41.691389, -93.566389

Administrative Information

Investigator In Charge (IIC):	Andrew T Fox	Adopted Date:	03/31/2008
Additional Participating Persons:	Donald E Land; Federal Aviation Administration - Des Moines FSDO; Ankeny, IA		
Publish Date:			
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
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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