



National Transportation Safety Board Aviation Accident Factual Report

Location:	Denver, CO	Accident Number:	DEN04FA027B
Date & Time:	12/03/2003, 0555 MST	Registration:	N340AE
Aircraft:	Swearingen SA227-AC	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 135: Air Taxi & Commuter - Non-scheduled		

On December 3, 2003, at approximately 0555 mountain standard time, a Swearingen SA227-AC, N340AE, and a Swearingen SA226-TC, N60U, both operated by Key Lime, Inc., were substantially damaged when they collided during night taxi at Denver International Airport, Denver, Colorado. Neither the airline transport pilot in N60U, nor the commercial pilot in N340AE, were injured. Night visual meteorological conditions prevailed. Instrument flight rules (IFR) flight plans had been filed for the non-scheduled domestic cargo flights being operated under the provisions of Title 14 CFR Part 135. Both flights were originating at the time of the accident.

The pilot of N340AE reported that he had taxied north on taxiway Mike (M) to the "M10" intersection. There were several company aircraft in front of him in line for runway 17R. He came to a complete stop behind a Cessna 404, remaining partially on the M taxiway.

The pilot of N60U reported that he was taxiing north on the M taxiway, en route to runway 8 for departure. He had seen the lights from an aircraft holding short of runway 17R; however, he did not see the lights of N340AE until it was too late. The pilot of N60U reported he applied full brakes and used reverse thrust but was unable to avoid hitting N340AE.

Both airplanes were examined at the scene. N340AE, was turned to the right during the collision, entangling its empennage with N60U's empennage. The outer 8 feet of N60U's right wing was severed. The outboard 2 feet of the right propeller's blades showed chordwise scratches, torsional bends, and leading edge gouges and chips. The airplane's empennage was crushed and bent.

The bottom empennage of N340AE was scraped and torn. The airplane's left wing tip was bent upward, and showed skin wrinkles. An 8-foot long, 2-foot wide section of the left outboard wing's trailing edge was torn out. The airplane's empennage was crushed and bent.

Pilot Information

Certificate:	Commercial; Private	Age:	26, 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):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	05/30/2003
Occupational Pilot:		Last Flight Review or Equivalent:	10/14/2003
Flight Time:	2200 hours (Total, all aircraft), 2200 hours (Pilot In Command, all aircraft), 209 hours (Last 90 days, all aircraft), 53 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Swearingen	Registration:	N340AE
Model/Series:	SA227-AC	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	AC-510
Landing Gear Type:	Retractable - Tricycle	Seats:	3
Date/Type of Last Inspection:	10/21/2003, Continuous Airworthiness	Certified Max Gross Wt.:	14600 lbs
Time Since Last Inspection:	58 Hours	Engines:	2 Turbo Prop
Airframe Total Time:	29615 Hours at time of accident	Engine Manufacturer:	Honeywell
ELT:	Installed, not activated	Engine Model/Series:	TPE-331
Registered Owner:	GAS Wilson	Rated Power:	1000 hp
Operator:	Key Lime	Operating Certificate(s) Held:	On-demand Air Taxi (135)
Operator Does Business As:		Operator Designator Code:	KY7A

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night
Observation Facility, Elevation:	DEN, 5431 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	0553 MST	Direction from Accident Site:	90°
Lowest Cloud Condition:	Clear	Visibility	10 Miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	12 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	170°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.16 inches Hg	Temperature/Dew Point:	-6° C / -8° C
Precipitation and Obscuration:			
Departure Point:	Denver, CO (DEN)	Type of Flight Plan Filed:	IFR
Destination:	Durango, CO (DRO)	Type of Clearance:	IFR
Departure Time:	0550 MST	Type of Airspace:	Class B

Airport Information

Airport:	Denver International Airport (DEN)	Runway Surface Type:	Unknown
Airport Elevation:	5431 ft	Runway Surface Condition:	Unknown
Runway Used:	NA	IFR Approach:	None
Runway Length/Width:		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:	39.861389, -104.661389

Administrative Information

Investigator In Charge (IIC):	James Struhsaker
Additional Participating Persons:	Jim B Hopkins; FAA FSDO; Denver, CO
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/ .