



Aviation Investigation Final Report

Location:	Henderson, Nevada	Accident Number:	GAA16CA402
Date & Time:	July 28, 2016, 16:00 Local	Registration:	N341CP
Aircraft:	CIRRUS DESIGN CORP SR	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	3 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot reported that during the landing in gusty crosswind conditions, the airplane touched down "firm" with the landing gear side loaded. The pilot further reported that the airplane immediately veered off the runway to the left. During the runway excursion, the airplane encountered a steep ravine located about 300 feet from the runway centerline; subsequently the landing gear collapsed.

The right elevator and right wing sustained substantial damage.

The pilot did not report any mechanical malfunctions or failures with the airplane that would have precluded normal operation.

The automated weather observation station (AWOS) at the airport four minutes before the accident recorded the wind at 250 degrees true at 10 knots. The AWOS about 56 minutes after the accident recorded the wind at 260 degrees true at 7 knots, gusting to 14 knots. The pilot reported that the landing was on a runway aligned with 170 degrees magnetic.

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 landing roll in gusty crosswind conditions, which resulted in a runway excursion and a landing gear collapse.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Directional control - Not attained/maintained
Environmental issues	Gusts - Effect on operation
Environmental issues	Crosswind - Effect on operation
Environmental issues	(general) - Contributed to outcome

Factual Information

History of Flight

Landing-flare/touchdown	Other weather encounter
Landing-flare/touchdown	Hard landing
Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Runway excursion
Landing-landing roll	Landing gear collapse
Landing-landing roll	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	28, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	September 29, 2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

Passenger Information

Certificate:		Age:	Male
Airplane Rating(s):		Seat Occupied:	Right
Other Aircraft Rating(s):		Restraint Used:	4-point
Instrument Rating(s):		Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

Passenger Information

Certificate:		Age:	Female
Airplane Rating(s):		Seat Occupied:	Left
Other Aircraft Rating(s):		Restraint Used:	4-point
Instrument Rating(s):		Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Make:	CIRRUS DESIGN CORP	Registration:	N341CP
Model/Series:	SR 22	Aircraft Category:	Airplane
Year of Manufacture:	2008	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	3245
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	3600 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	IO-550-N-51B
Registered Owner:	KCB Air LLC.	Rated Power:	310 Horsepower
Operator:	KCB Air LLC.	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KHND,2491 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	22:56 Local	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	250°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	29.82 inches Hg	Temperature/Dew Point:	44°C / 8°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	BAKERSFIELD, CA (BFL)	Type of Flight Plan Filed:	None
Destination:	LAS VEGAS, NV (HND)	Type of Clearance:	VFR flight following
Departure Time:	15:00 Local	Type of Airspace:	Class D

Airport Information

Airport:	HENDERSON EXECUTIVE HND	Runway Surface Type:	Asphalt
Airport Elevation:	2491 ft msl	Runway Surface Condition:	Dry
Runway Used:	17L	IFR Approach:	None
Runway Length/Width:	5001 ft / 75 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	35.978889,-115.133056(est)

Administrative Information

Investigator In Charge (IIC):	Gerhardt, Adam
Additional Participating Persons:	Carey Atnip; FAA; Las Vegas, NV
Original Publish Date:	September 12, 2016
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=93723

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