



Aviation Investigation Final Report

Location: San Jose, California **Accident Number:** GAA17CA581

Date & Time: September 28, 2017, 17:08 Local Registration: N1652T

Aircraft: Cessna 414 Aircraft Damage: Substantial

Defining Event: Prop/jet/rotor blast/suction **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that he was cleared to land on runway 30R, but when he turned to the base leg, he observed a large airplane on final for 30L. However, he continued the approach, and the landing flare was normal, but the airplane landed hard. He recalled that the airplane "seemed ok," and he taxied to parking.

The following week, the airplane underwent an annual inspection. The inspection revealed that the left wing false spar and trunnion were substantially damaged.

The pilot reported that there were no preimpact mechanical malfunctions or failures with the airplane that would have precluded normal operation.

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 a proper descent rate, which resulted in a hard landing.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Descent rate - Not attained/maintained

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Factual Information

History of Flight

Pilot Information

Certificate:	Private	Age:	81,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	March 31, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	February 28, 2017
Flight Time:	(Estimated) 3319 hours (Total, all aircraft), 2458 hours (Total, this make and model), 3165 hours (Pilot In Command, all aircraft), 2 hours (Last 90 days, all aircraft), 2 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

A1		B 11 11 11	NACEOT
Aircraft Make:	Cessna	Registration:	N1652T
Model/Series:	414 Undesignat	Aircraft Category:	Airplane
Year of Manufacture:	1973	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	414-0432
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	September 8, 2016 Annual	Certified Max Gross Wt.:	6350 lbs
Time Since Last Inspection:		Engines:	2 Reciprocating
Airframe Total Time:	4517.1 Hrs at time of accident	Engine Manufacturer:	Continental
ELT:	C126 installed, not activated	Engine Model/Series:	TSIO-520 NB
Registered Owner:	On file	Rated Power:	310 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KSJC,50 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	00:53 Local	Direction from Accident Site:	138°
Lowest Cloud Condition:	Few / 3500 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	9 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	290°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.89 inches Hg	Temperature/Dew Point:	28°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	San Jose, CA (SJC)	Type of Flight Plan Filed:	None
Destination:	San Jose, CA (SJC)	Type of Clearance:	VFR
Departure Time:	15:15 Local	Type of Airspace:	Class C

Airport Information

Airport:	Norman Y Mineta San Jose Intl SJC	Runway Surface Type:	Concrete
Airport Elevation:	62 ft msl	Runway Surface Condition:	Dry;Rubber deposits
Runway Used:	30R	IFR Approach:	None
Runway Length/Width:	11000 ft / 150 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	37.363056,-121.928611(est)

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Administrative Information

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	
Original Publish Date:	September 26, 2019
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=97874

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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