

Aviation Investigation Final Report

Location:	KEAAU, Hawaii		Accident Number:	LAX91LA405
Date & Time:	September 14, 199	91, 11:30 Local	Registration:	N6708D
Aircraft:	BELL	47G2	Aircraft Damage:	Substantial
Defining Event:			Injuries:	2 Minor, 1 None
Flight Conducted Under:	Part 91: General aviation			

Analysis

WHILE FLYING, THE PILOT FELT A VIBRATION AND HE PERFORMED A PRECAUTIONARY LANDING. THE PILOT LANDED THE AIRCRAFT HARD. THE AIRCRAFT WAS REMOVED WITHOUT NTSB AUTHORIZATION AND CONSEQUENTLY IT COULD NOT BE EXAMINED. THE PILOT DID NOT PROVIDE THE NTSB A COMPLETED 'AIRCRAFT ACCIDENT REPORT' FORM 6120.1. THE ORIGIN OF THE REPORTED VIBRATION WAS NOT DETERMINED.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S LANDING HARD. A CONTRIBUTING FACTOR IN THIS ACCIDENT WAS THE AIRCRAFT EMITTING A VIBRATION FROM AN UNKNOWN SOURCE.

Findings

Occurrence #1: HARD LANDING Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (F) AIRCRAFT PERFORMANCE - VIBRATION

2. (C) PRECAUTIONARY LANDING - PERFORMED - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Commercial	Age:	30,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	October 2, 1990
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	6400 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BELL	Registration:	N6708D
Model/Series:	47G2 47G2	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	2189
Landing Gear Type:	Skid	Seats:	
Date/Type of Last Inspection:	January 2, 2000 Unknown	Certified Max Gross Wt.:	2450 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:		Engine Model/Series:	VO-540-B1B
Registered Owner:		Rated Power:	240 Horsepower
Operator:	KOINOA AVIATION	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
conditions at Accident Site.		Condition of Light.	Day
Observation Facility, Elevation:	ITO ,38 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	10:54 Local	Direction from Accident Site:	1°
Lowest Cloud Condition:	Scattered / 4000 ft AGL	Visibility	15 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	20°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	HILO , HI (ITO)	Type of Flight Plan Filed:	Company VFR
Destination:		Type of Clearance:	None
Departure Time:	11:00 Local	Type of Airspace:	

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Precautionary landing

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Minor, 1 None	Latitude, Longitude:	19.690706,-155.080947(est)

Administrative Information

Investigator In Charge (IIC):	Wall, James	
Additional Participating Persons:	SCOTT CHRISTIANSEN; HONOLULU , HI	
Original Publish Date:	March 24, 1993	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=27367	

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.