



Aviation Investigation Final Report

Location: ORCUTT, California Accident Number: LAX84FA395

Date & Time: July 15, 1984, 15:30 Local Registration: N4030A

Aircraft: HILLER UH-12E Aircraft Damage: Substantial

Defining Event: 2 None

Flight Conducted Under: Part 91: General aviation

Analysis

MAINTENANCE HAD JUST BEEN PERFORMED & THE CREW WERE BEGINNING A TEST FLT TO CHECK THE TRACKING OF THE MAIN ROTOR BLADES. WHILE THE PLT WAS HOVER TAXIING, HE LOST COLLECTIVE CONTROL & ROTOR RPM DECREASED. HOWEVER, HE WAS ABLE TO MAKE A ROLL-ON LANDING, BUT THE HELICOPTER ROLLED OVER & WAS DAMAGED. AN EXAM OF THE LOWER COLLECTIVE CENTER CONTROL HOUSING DISCLOSED THAT THE TERMINAL PIN WAS PLACED THRU THE OUTER HOUSING, BUT WAS INSTALLED BENEATH THE TERMINAL TEE RATHER THAN THRU THE TEE. THE MANUAL EMPHASIZES THAT THE PIN MUST PASS THRU THE TERMINAL TEE. THE MANUAL HAD NO PROVISIONS TO ASCERTAIN THAT THE PIN HAD BEEN INSTALLED THRU THE TERMINAL TEE.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: HOVER

Findings

1. (C) ROTORCRAFT FLIGHT CONTROL, COLLECTIVE CONTROL ROD - DISCONNECTED

2. (C) MAINTENANCE, REPLACEMENT - IMPROPER - COMPANY MAINTENANCE PERSONNEL

3. (C) CONDITION(S)/STEP(S) INSUFFICIENTLY DEFINED - MANUFACTURER

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Occurrence #4: ROLL OVER Phase of Operation: LANDING

Page 2 of 6 LAX84FA395

Factual Information

Pilot Information

Certificate:	Commercial	Age:	44,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	January 27, 1984
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	9000 hours (Total, all aircraft), 2000 hours (Total, this make and model), 7900 hours (Pilot In Command, all aircraft), 100 hours (Last 90 days, all aircraft), 50 hours (Last 30 days, all aircraft)		

Page 3 of 6 LAX84FA395

Aircraft and Owner/Operator Information

Aircraft Make:	HILLER	Registration:	N4030A
Model/Series:	UH-12E UH-12E	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	5147
Landing Gear Type:	Skid	Seats:	2
Date/Type of Last Inspection:	June 21, 1984 100 hour	Certified Max Gross Wt.:	3100 lbs
Time Since Last Inspection:	23 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1602 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	VO-540-02
Registered Owner:	O'RIELLY'S ECONO LEASING, INC.	Rated Power:	305 Horsepower
Operator:	SAN FRANCISCO & FESNO LAND CO	Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	25 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	335°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	24°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	15:29 Local	Type of Airspace:	Class G

Page 4 of 6 LAX84FA395

Airport Information

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

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	34.910221,-120.230575(est)

Page 5 of 6 LAX84FA395

Administrative Information

Investigator In Charge (IIC):	Llorente, A	
Additional Participating Persons:	JOHN E KNOEBBER; VAN NUYS , CA	
Original Publish Date:		
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=23977	

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.

Page 6 of 6 LAX84FA395