

National Transportation Safety Board Aviation Accident Final Report

Location: KAILUA-KONA, HI Accident Number: LAX83LA427

Date & Time: 09/08/1983, 0934 HST Registration: N2990F

Aircraft: BEECH H18S Aircraft Damage: Destroyed

Defining Event: 1 Serious, 9 Minor

Flight Conducted Under: Part 135: Air Taxi & Commuter - Scheduled

Analysis

ABOUT 1 MIN AFTER TAKEOFF, BETWEEN 400-500 FT MSL & DURING THE FIRST POWER REDUCTION, THE RIGHT ENG BACKFIRED. FOLLOWINGSOME MORE VIOLENT BACKFIRES THE RPM WENT TO ZERO. THE RIGHT ENG WAS RESTARTED BUT THE SAME RESULT OCCURRED. THE PLT ATTEMPTED TO FEATHER THE RIGHT PROP BUT TO NO AVAIL. THE ACFT WAS THEN DELIBERATELY DITCHED TO AVOID AN OUTCROPPING OF LAVA. THE ACFT CAME TO REST IN ABOUT 25-30 FT OF WATER. ENG INSPECTION REVEALED THAT THE #2 CYLINDER EXHAUST ROCKER ARM SHAFT, P/N45937, WAS MISSING. DRIVE TRAIN CONTINUITY WAS ESTABLISHED WITH THE EXCEPTION OF THE #2 EXHAUST VALVE. CENTRIFUGAL STOPS PREVENT FEATHERING OF THE PROP BELOW AN ENG SPEED OF 500 RPM.

Probable Cause and Findings

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

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF

Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) EXHAUST SYSTEM, ACTUATOR - SEPARATION

Occurrence #2: DITCHING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

2. (F) PROPELLER FEATHERING - NOT POSSIBLE - PILOT IN COMMAND

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Factual Information

Pilot Information

Certificate:	Airline Transport	Age:	51, Male
Airplane Rating(s):	Multi-engine Land; Multi-engine Sea	Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalw/waivers/lim.	Last FAA Medical Exam:	12/15/1982
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	` '	hours (Total, this make and model), days, all aircraft), 6 hours (Last 24 ho	,

Aircraft and Owner/Operator Information

Aircraft Make:	BEECH	Registration:	N2990F
Model/Series:	H18S H18S	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	BA-75
Landing Gear Type:	Retractable - Tricycle	Seats:	11
Date/Type of Last Inspection:	08/26/1983, AAIP	Certified Max Gross Wt.:	9900 lbs
Time Since Last Inspection:	48 Hours	Engines:	2 Reciprocating
Airframe Total Time:	16873 Hours	Engine Manufacturer:	P&W
ELT:	Installed, activated	Engine Model/Series:	R985-AN-14B
Registered Owner:	AIRTOUR ACQUISITION CORP.	Rated Power:	450 hp
Operator:		Operating Certificate(s) Held:	Commuter Air Carrier (135)
Operator Does Business As:	PANORAMA AIRTOUR	Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	KOA, 43 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	0085 HST	Direction from Accident Site:	315°
Lowest Cloud Condition:	Scattered / 2000 ft agl	Visibility	15 Miles
Lowest Ceiling:	Broken / 3500 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	180°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:		Type of Flight Plan Filed:	VFR
Destination:	, HI (OGG)	Type of Clearance:	None
Departure Time:	0932 HST	Type of Airspace:	Class D

Airport Information

Airport:	KEAHOLE (KOA)	Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	0	IFR Approach:	
Runway Length/Width:		VFR Approach/Landing:	Forced Landing

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Destroyed
Passenger Injuries:	1 Serious, 8 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious, 9 Minor	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	M.	J PYATT	Report Date:
Additional Participating Persons:			
Publish Date:			
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 publing@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.ntsb.gov/pubdms/ .		

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The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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