



National Transportation Safety Board Aviation Accident Final Report

Location:	KANSAS CITY, MO	Accident Number:	MKC87FA130
Date & Time:	07/02/1987, 2105 CDT	Registration:	N271MA
Aircraft:	MITSUBISHI MU-2B-60	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None

Flight Conducted Under: Part 91: General Aviation - Positioning

Analysis

DURING A TAKEOFF, PIC LOST DIRECTIONAL CONTROL OF ACFT, CAUSING IT TO SWERVE OFF THE ACTIVE RUNWAY, SPIN AROUND, SHEARING THE NOSE GEAR ASSEMBLY AND LEFT MAIN WHEEL. THE NOSE WHEEL STRUT ASSEMBLY CAREENED INTO THE RIGHT POWERPLANT PROPELLER CAUSING THE TORQUE SHAFT TO SHEAR. SUBSEQUENT TEAR DOWN AND INSPECTION OF THE POWERPLANTS, AND THE AUTOPILOT SYSTEM SHOWED NO MALFUNCTION OF THE RESPECTIVE COMPONENTS. THE PIC WAS THE OWNER OF THE AIR TAXI SERVICE AND WAS IN THE PROCESS OF REPOSITIONING THE ACFT. HIS TOTAL TIME IN MU-2'S REFLECTS A SUBSTANTIAL AMOUNT OF CO-PLT TIME.

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 - ON GROUND/WATER
Phase of Operation: TAKEOFF - ROLL/RUN

Findings

1. AIRSPEED(VR) - NOT OBTAINED - PILOT IN COMMAND
2. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
3. (F) LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND

Occurrence #2: DRAGGED WING, ROTOR, POD, FLOAT OR TAIL/SKID
Phase of Operation: TAKEOFF - ROLL/RUN

Occurrence #3: GEAR COLLAPSED
Phase of Operation: TAKEOFF - ROLL/RUN

Findings

4. (F) LANDING GEAR, NOSE GEAR ASSEMBLY - SHEARED
5. (F) LANDING GEAR, WHEEL - SEPARATION

Factual Information

Pilot Information

Certificate:	Commercial	Age:	55, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	08/28/1986
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	4599 hours (Total, all aircraft), 270 hours (Total, this make and model), 2825 hours (Pilot In Command, all aircraft), 88 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	MITSUBISHI	Registration:	N271MA
Model/Series:	MU-2B-60 MU-2B-60	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	797 SA
Landing Gear Type:	Retractable - Tricycle	Seats:	2
Date/Type of Last Inspection:	AAIP	Certified Max Gross Wt.:	11575 lbs
Time Since Last Inspection:	124 Hours	Engines:	2 Turbo Prop
Airframe Total Time:	2998 Hours	Engine Manufacturer:	GARRETT
ELT:	Installed, not activated	Engine Model/Series:	TPE-331-10
Registered Owner:	FILM PROPERTIES, INC.	Rated Power:	778 hp
Operator:	CORPORATE AVIATION SERVICE	Operating Certificate(s) Held:	On-demand Air Taxi (135)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	MKC, 758 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	2124 CDT	Direction from Accident Site:	270°
Lowest Cloud Condition:	Scattered / 25000 ft agl	Visibility	10 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	240°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	27° C / 19° C
Precipitation and Obscuration:			
Departure Point:	KANSAS CITY, MO (MKC)	Type of Flight Plan Filed:	IFR
Destination:	TULSA, OK (TUL)	Type of Clearance:	IFR
Departure Time:	2105 CDT	Type of Airspace:	Class D

Airport Information

Airport:	MKC DOWNTOWN (MKC)	Runway Surface Type:	Asphalt
Airport Elevation:	758 ft	Runway Surface Condition:	Dry
Runway Used:	19	IFR Approach:	None
Runway Length/Width:	7001 ft / 150 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	JOHN R HRUBAN	Report Date:	06/16/1989
Additional Participating Persons:	JOSEPH HOLLIER; KANSAS CITY, MO		
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 pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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