

Aviation Investigation Final Report

Location:	SLATER, Missouri		Accident Number:	MKC84LA283
Date & Time:	September 22, 1984, 1	16:30 Local	Registration:	N30HW
Aircraft:	ENSTROM	F-28A	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 None
Flight Conducted Under:	Part 91: General aviati	ion - Personal		

Analysis

PLT QUICKLY PULLED EXCESSIVE COLLECTIVE WHILE ATTEMPTING TAKEOFF FROM A HOVER. ROTOR RPM DECREASED AND THE ACFT TOUCHED DOWN HARD ON THE RIGHT SKID. A POST ACCIDENT ENGINE RUN REVEALED NO DISCREPANCIES.

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(PARTIAL) - NONMECHANICAL Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

(C) COLLECTIVE - IMPROPER USE OF - PILOT IN COMMAND
(C) ROTOR RPM - NOT MAINTAINED - PILOT IN COMMAND
LACK OF TOTAL EXPERIENCE IN KIND OF AIRCRAFT - PILOT IN COMMAND
PRECAUTIONARY LANDING - ATTEMPTED - PILOT IN COMMAND

Occurrence #2: HARD LANDING Phase of Operation: LANDING - FLARE/TOUCHDOWN

Factual Information

Pilot Information

T not information			
Certificate:	Private	Age:	59,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	April 7, 1984
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:		urs (Total, this make and model), 1024 t 90 days, all aircraft), 3 hours (Last 24	

Aircraft and Owner/Operator Information

Aircraft Make:	ENSTROM	Registration:	N30HW
Model/Series:	F-28A F-28A	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	172
Landing Gear Type:	Skid	Seats:	3
Date/Type of Last Inspection:	March 13, 1984 Annual	Certified Max Gross Wt.:	2150 lbs
Time Since Last Inspection:	52 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	870 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed	Engine Model/Series:	HIO-360-C1B
Registered Owner:	CHARLES R. LARUE	Rated Power:	205 Horsepower
Operator:		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
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	15 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	240°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	24°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	16:00 Local	Type of Airspace:	Class G

Airport Information

Airport:	SLATER MEMORIAL 9K5	Runway Surface Type:	Grass/turf
Airport Elevation:	860 ft msl	Runway Surface Condition:	Dry
Runway Used:	22	IFR Approach:	None
Runway Length/Width:	2365 ft / 150 ft	VFR Approach/Landing:	None

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:	39.219863,-93.059532(est)

Administrative Information

Investigator In Charge (IIC):	Johnson, Robert		
Additional Participating Persons:	R. STERNICKER; KANSAS CITY, MO		
Original Publish Date:			
Last Revision Date:			
Investigation Class:	<u>Class</u>		
Note:			
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=33797		

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.