

# **Aviation Investigation Final Report**

Location:	INGLEWOOD, Washir	ngton	Accident Number:	SEA93LA059
Date & Time:	January 30, 1993, 11	:15 Local	Registration:	N5391R
Aircraft:	CESSNA	A185F	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 None
Flight Conducted Under:	Part 91: General avia	tion - Personal		

## Analysis

THE PILOT REPORTED THAT DURING THE PREFLIGHT OF HIS FLOATPLANE HE VISUALLY CHECKED INSIDE THE FUEL TANKS AND ESTIMATED THAT HE HAD 12 TO 15 GALLONS OF FUEL. HE THEN DEPARTED WITH THE INTENTION OF FLYING TO A NEARBY SEAPLANE BASE APPROXIMATELY 12 NAUTICAL MILES NORTHWEST WHERE HE PLANNED TO PURCHASE FUEL. DURING THE INITIAL CLIMB AND AT AN ALTITUDE OF APPROXIMATELY 300 TO 400 FEET AGL THE ENGINE QUIT AND THE PILOT EXECUTED A FORCED LANDING TO THE LAKE SURFACE. DURING HIS DESCENT HE ENTERED AN AREA OF FOG AND DUE TO REDUCED VISIBILITY HE 'COULD NOT JUDGE WHEN TO FLARE' AND A HARD LANDING FOLLOWED. THE FUEL SYSTEM LINES WERE FOUND TO BE INTEGRAL WITHOUT BREACHES, AND AIRCRAFT RECOVERY PERSONAL REPORTED THAT SHORTLY AFTER THE ACCIDENT, WHILE THE WINGS WERE BEING REMOVED, THEY FOUND NO FUEL IN EITHER FUEL BLADDER. SUBSEQUENT TO THE AIRCRAFT'S RECOVERY TO A NEARBY AIRPORT, TOTAL FUEL AMOUNTS OF 6 OUNCES, 1 OUNCE, AND LESS THAN ONE OUNCE WERE DRAINED RESPECTIVELY FROM THE LOW POINT FUEL FILTER, FUEL LINKING THE BOOST PUMP TO THE ENGINE, AND FROM THE HEADER TANK LOW POINT DRAIN.

## **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: FUEL EXHAUSTION, THE PILOT IN COMMAND'S INADEQUATE PREFLIGHT, AND HIS FAILURE TO FLARE ON LANDING. A FACTOR CONTRIBUTING TO THE ACCIDENT WAS FOG.

### **Findings**

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings 1. (C) FLUID,FUEL - EXHAUSTION 2. (C) AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND

Occurrence #2: FORCED LANDING Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: HARD LANDING Phase of Operation: LANDING

Findings

3. (F) WEATHER CONDITION - FOG

4. (C) FLARE - NOT PERFORMED - PILOT IN COMMAND

# **Factual Information**

## **Pilot Information**

Certificate:	Airline transport; Flight engineer; Foreign	Age:	49,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
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:	November 15, 1992
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	12500 hours (Total, all aircraft), 500 hours (Total, this make and model), 11600 hours (Pilot In Command, all aircraft), 6 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft)		

### Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N5391R
Model/Series:	A185F A185F	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18503033
Landing Gear Type:	Float	Seats:	4
Date/Type of Last Inspection:	May 18, 1992 Annual	Certified Max Gross Wt.:	3350 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	TIO-540
Registered Owner:	JOHNSON, EVERETT H.	Rated Power:	350 Horsepower
Operator:	JOHNSON, EVERETT H.	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument (IMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Unknown	Visibility	
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:	N/A - None - Fog		
Departure Point:		Type of Flight Plan Filed:	None
Destination:	KENMORE , WA (S60 )	Type of Clearance:	None
Departure Time:	11:10 Local	Type of Airspace:	Class G

## **Airport Information**

Airport:		Runway Surface Type:	Water
Airport Elevation:		<b>Runway Surface Condition:</b>	Water-calm
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:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	47.739593,-122.200698(est)

### **Administrative Information**

Investigator In Charge (IIC):	Mccreary, Steven	
Additional Participating Persons:	JAMES M ERWIN; RENTON , WA	
Original Publish Date:	October 13, 1993	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=42982	

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 <u>here</u>.