



National Transportation Safety Board Aviation Accident Data Summary

Location:	Grinnell, IA	Accident Number:	CHI07LA062
Date & Time:	02/02/2007, 1444 CST	Registration:	N41RH
Aircraft:	Hallburg Amphibian S21D	Injuries:	2 Fatal
Flight Conducted Under:	Part 91: General Aviation - Ferry		

Analysis

The airplane was recently purchased and was being ferried to the new owner when it impacted terrain. A witness reported seeing the airplane flying at a low altitude when the engine lost power. The airplane impacted a snow-covered agricultural field and sustained damage to the airplane structure leaving a debris field approximately 200 feet in length. Examination of the airplane revealed no usable fuel aboard the airplane. A tailwind prevailed at the time of the accident and the direction of the forced landing was perpendicular to the airplane's flight path. The engine driven fuel pump was tested within test specifications. The examination of the airframe and engine revealed no anomalies that would have precluded normal operation.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The inadequate preflight planning/preparation by the pilot in command and the fuel exhaustion during cruise flight. An additional cause was the inadequate forced landing procedure. A contributing factor was the tailwind.

Findings

Occurrence #1: LOSS OF ENGINE POWER

Phase of Operation: CRUISE

Findings

1. (C) FLUID,FUEL - EXHAUSTION
2. (C) PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: EMERGENCY DESCENT/LANDING

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: EMERGENCY DESCENT/LANDING

Findings

3. (F) WEATHER CONDITION - TAILWIND
4. TERRAIN CONDITION - GROUND

Pilot Information

Certificate:	Airline Transport; Commercial; Flight Engineer	Age:	34
Airplane Rating(s):	Multi-engine Land; Single-engine Land; Single-engine Sea	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	Airplane Single-engine; Instrument Airplane
Flight Time:	5000 hours (Total, all aircraft), 15 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	Hallburg	Registration:	N41RH
Model/Series:	Amphibian S21D	Engines:	1 Reciprocating
Operator:	James Reynolds	Engine Manufacturer:	Continental
Operating Certificate(s) Held:	None	Engine Model/Series:	E-185
Flight Conducted Under:	Part 91: General Aviation - Ferry		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	MIW, 974 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None	Wind Speed/Gusts, Direction:	17 knots / , 250°
Temperature:	-13°C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	North Platte, NE (LBF)	Destination:	Iowa City, IA (IOW)

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Substantial
Passenger Injuries:	1 Fatal	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:	41.709167, -92.735000		

Administrative Information

Investigator In Charge (IIC):	Mitchell F Gallo	Adopted Date:	03/31/2008
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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