



# **Aviation Investigation Final Report**

Location: ALTOONA, Iowa Accident Number: CHI91LA292

Date & Time: September 7, 1991, 07:30 Local Registration: N4055T

Aircraft: BALLOON WORKS FIREFLY X-7 Aircraft Damage: None

**Defining Event:** 1 Serious, 2 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

THE PILOT SAID THAT WHILE ATTEMPTING A HIGH WIND LANDING, THE GONDOLA HIT THE TERRAIN HARD, AND TIPPED OVER. A PASSENGER SUFFERED A BROKEN ANKLE DURING THE LANDING.

### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: WEATHER EVALUATION MISJUDGED AND OVERCONFIDENCE IN PERSONAL ABILITY. A FACTOR RELATED TO THE ACCIDENT WAS HIGH WINDS.

### **Findings**

Occurrence #1: HARD LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

#### Findings

1. (F) WEATHER CONDITION - HIGH WIND

2. (C) WEATHER EVALUATION - MISJUDGED - PILOT IN COMMAND

3. (C) OVERCONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND

## **Factual Information**

#### **Pilot Information**

Certificate:	Commercial	Age:	44,Male
Airplane Rating(s):	None	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Balloon	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	None None	Last FAA Medical Exam:	
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	247 hours (Total, all aircraft), 200 hours (Total, this make and model), 247 hours (Pilot In Command, all aircraft), 6 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft)		

### **Aircraft and Owner/Operator Information**

Aircraft Make:	BALLOON WORKS	Registration:	N4055T
Model/Series:	FIREFLY X-7 FIREFLY X-	Aircraft Category:	Balloon
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	10136
Landing Gear Type:		Seats:	
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	1600 lbs
Time Since Last Inspection:	0 Hrs	Engines:	Unknown
Airframe Total Time:		Engine Manufacturer:	
ELT:	Not installed	Engine Model/Series:	
Registered Owner:		Rated Power:	
Operator:	KING, GARY D.	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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### Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	DSM ,957 ft msl	Distance from Accident Site:	10 Nautical Miles
Observation Time:	07:00 Local	Direction from Accident Site:	230°
<b>Lowest Cloud Condition:</b>	Scattered / 25000 ft AGL	Visibility	5 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	150°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-18°C / -18°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	ALTOONA , IA	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	07:10 Local	Type of Airspace:	

## **Airport Information**

Airport:		Runway Surface Type:	
Airport Elevation:		<b>Runway Surface Condition:</b>	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Full stop

## Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	None
Passenger Injuries:	1 Serious, 1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious, 2 None	Latitude, Longitude:	41.650993,-93.470733(est)

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#### **Administrative Information**

Investigator In Charge (IIC): Hruban, John

Additional Participating Persons:

Original Publish Date: December 4, 1992

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=15185

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.

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