

Aviation Investigation Final Report

PURCELLVILLE, Virginia Location: **Accident Number:** BF088LA066

Date & Time: July 10, 1988, 19:30 Local Registration: N7108

Aircraft: **BALLOON WORKS** AX-8 Aircraft Damage: Minor

1 Serious, 1 Minor, 4 **Defining Event:** Injuries:

None

Flight Conducted Under: Part 91: General aviation

Analysis

ACCORDING TO THE PLT. A WIND GUST OCCURRED DURING LIFT OFF. A PASSENGER SAID THE BALLOON WENT LATERALLY ABOUT 50 TO 75 YDS WHERE IT STRUCK SEVERAL OBSTACLES; A FENCE, A UTILITY LINE, AND A TREE. THE PLT SAID HE CONTINUED THE TAKEOFF AND THE BALLOON EVENTUALLY BECAME AIRBORNE. HOWEVER, ACCORDING TO THE PLT, THE WINDS BEGAN INCREASING SO HE DECIDED TO LAND. THE PLT SAID HE LANDED HARD AND THE FORCE EJECTED HIM AND A PAX FROM THE GONDOLA. AFTER THE PLT WAS EJECTED, THE BALLOON LIFTED OFF AGAIN WITH FOUR PASSENGERS ABOARD. THE PASSENGER SAID THE BALLOON LIFTED TO ABOUT 100 FT AGL WHEN HE HEARD THE PLT YELLING TO PULL THE VALVE LINE, WHICH HE DID. THE PASSENGER SAID THE BALLOON DESCENDED RAPIDLY AND LANDED HARD; THE BALLOON COLLAPSED ON THE GONDOLA.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT LANDED THE HOT AIR BALLOON AT AN EXCESSIVE DESCENT RATE WHICH RESULTED IN A HARD LANDING. WIND GUST ARE A CONTRIBUTING FACTOR.

Findings

Occurrence #1: HARD LANDING Phase of Operation: LANDING

Findings

- 1. (F) WEATHER CONDITION GUSTS
- 2. (C) WEATHER EVALUATION INADEQUATE PILOT IN COMMAND
 3. (F) IN-FLIGHT PLANNING/DECISION INADEQUATE PILOT IN COMMAND
 4. (C) DESCENT EXCESSIVE UNQUALIFIED PERSON

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Factual Information

Pilot Information

Certificate:	Commercial	Age:	43,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Balloon	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	None None	Last FAA Medical Exam:	
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	300 hours (Total, all aircraft), 300 hours (Total, this make and model), 3 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BALLOON WORKS	Registration:	N7108
Model/Series:	AX-8 AX-8	Aircraft Category:	Balloon
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	F8-105
Landing Gear Type:	Skid	Seats:	
Date/Type of Last Inspection:	April 12, 1988 Annual	Certified Max Gross Wt.:	2020 lbs
Time Since Last Inspection:	11 Hrs	Engines:	0 Unknown
Airframe Total Time:	89 Hrs	Engine Manufacturer:	none
ELT:	Not installed	Engine Model/Series:	T-3
Registered Owner:	ROBERT O.G. THOMAS	Rated Power:	
Operator:	BALLON UNLIMITED CORP	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:	IAD ,313 ft msl	Distance from Accident Site:	18 Nautical Miles
Observation Time:	18:50 Local	Direction from Accident Site:	145°
Lowest Cloud Condition:	25000 ft AGL	Visibility	7 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	120°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	32°C / 12°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	18:45 Local	Type of Airspace:	Class G

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Straight-in

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Minor
Passenger Injuries:	1 Serious, 1 Minor, 3 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious, 1 Minor, 4 None	Latitude, Longitude:	

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Administrative Information

Investigator In Charge (IIC): Jones, Dennis

Additional Participating Persons:

Original Publish Date: June 25, 1990

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=11425

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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