



Aviation Investigation Final Report

Location: Phoenix, Arizona Accident Number: WPR14CA396

Date & Time: September 13, 2014, 08:15 Local Registration: N59EX

Aircraft: Ultramagic N250 - NO SERIES Aircraft Damage: Substantial

Defining Event: Windshear or thunderstorm **Injuries:** 2 Minor, 9 None

Flight Conducted Under: Part 91: General aviation - Other work use

Analysis

The pilot reported that as the balloon descended to land, about 50 feet above ground level, a wind gust and down draft resulted in a rapid descent and subsequent collision with trees. The balloon landed hard and bounced several times. During the accident sequence, the basket flipped onto its side and was dragged in the dirt, which resulted in substantial damage to the structure. The pilot reported no preimpact mechanical failures or malfunctions with the balloon that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's failure to maintain aircraft control while landing in downdraft and gusting wind conditions which resulted in striking trees and a subsequent hard landing.

Findings

Personnel issues Aircraft control - Pilot

Environmental issues Gusts - Effect on operation

Environmental issues Downdraft - Effect on operation

Environmental issues Tree(s) - Not specified

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Factual Information

History of Flight

Landing Windshear or thunderstorm (Defining event)

Landing Collision with terr/obj (non-CFIT)

Landing-flare/touchdown Hard landing

Pilot Information

Certificate:	Commercial	Age:	65
Airplane Rating(s):	None	Seat Occupied:	None
Other Aircraft Rating(s):	Balloon	Restraint Used:	None
Instrument Rating(s):	None	Second Pilot Present:	
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	None	Last FAA Medical Exam:	
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	May 27, 2014
Flight Time:	(Estimated) 2600 hours (Total, all aircraft), 120 hours (Total, this make and model), 1742 hours (Pilot In Command, all aircraft), 27 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Ultramagic	Registration:	N59EX
Model/Series:	N250 - NO SERIES NO SERIES	Aircraft Category:	Balloon
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Unknown	Serial Number:	250/61
Landing Gear Type:	Skid	Seats:	
Date/Type of Last Inspection:	May 2, 2014 Annual	Certified Max Gross Wt.:	5308 lbs
Time Since Last Inspection:		Engines:	
Airframe Total Time:	915 Hrs as of last inspection	Engine Manufacturer:	
ELT:	Not installed	Engine Model/Series:	
Registered Owner:	MARS LEASING	Rated Power:	
Operator:	Hot Air Expeditions	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	PHX	Distance from Accident Site:	
Observation Time:	07:51 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Few / 10000 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	90°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.87 inches Hg	Temperature/Dew Point:	31°C / 14°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Phoenix, AZ	Type of Flight Plan Filed:	None
Destination:	Phoenix, AZ	Type of Clearance:	None
Departure Time:	07:00 Local	Type of Airspace:	Class E

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Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor, 9 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Minor, 9 None	Latitude, Longitude:	33.29,-112.237503(est)

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Administrative Information

Investigator In Charge (IIC):	Nixon, Albert
Additional Participating Persons:	Scott Boek; Federal Aviation Administration; Scottsdale, AZ
Original Publish Date:	January 12, 2015
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=90179

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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