



# **Aviation Investigation Final Report**

Location: Phoenix, Arizona **Accident Number:** WPR24LA006

Date & Time: October 3, 2023, 07:05 Local Registration: N27MU

Aircraft: **ULTRAMAGIC SA N-300** Aircraft Damage: None

2 Serious, 5 Minor, 7 **Defining Event:** Hard landing **Injuries:** 

None

Flight Conducted Under: Part 91: General aviation - Aerial observation

#### **Analysis**

The pilot of the balloon reported that while descending for a landing with a 5 kt wind from the west, about 20 ft above ground level, the balloon's groundspeed increased to 12-13 kts. The pilot ascended the balloon due to power lines and when cleared, began the approach to landing in a small field. The pilot verified all passengers were in position for the landing and flared utilizing all 3 burners. Subsequently, the balloon impacted cholla covered desert terrain. bounced, and came to rest on its side about 140 ft from the initial landing area. Two passengers sustaining serious injury.

#### **Probable Cause and Findings**

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

The pilot's improper landing flare, which resulted in a hard landing.

## Findings

Personnel issues Aircraft control - Pilot

Aircraft Landing flare - Not attained/maintained

**Environmental issues** (general) - Effect on operation

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## **Factual Information**

## History of Flight

Landing-flare/touchdown	Hard landing (Defining event)
Other	Miscellaneous/other

## Pilot Information

Certificate:	Commercial; Private	Age:	70,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	None
Other Aircraft Rating(s):	Balloon	Restraint Used:	None
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	March 21, 2023
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	March 23, 2023
Flight Time:	3500 hours (Total, all aircraft)		

#### Aircraft and Owner/Operator Information

All craft and owner, op	Crator information		
Aircraft Make:	ULTRAMAGIC SA	Registration:	N27MU
Model/Series:	N-300	Aircraft Category:	Balloon
Year of Manufacture:	2023	Amateur Built:	
Airworthiness Certificate:	Balloon	Serial Number:	300/109
Landing Gear Type:	None	Seats:	0
Date/Type of Last Inspection:	May 18, 2023 Annual	Certified Max Gross Wt.:	2402 lbs
Time Since Last Inspection:		Engines:	0
Airframe Total Time:	75.34 Hrs at time of accident	Engine Manufacturer:	
ELT:	Not installed	Engine Model/Series:	
Registered Owner:	MARS LEASING	Rated Power:	
Operator:	On file	Operating Certificate(s) Held:	None

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## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KDVT,1488 ft msl	Distance from Accident Site:	7 Nautical Miles
Observation Time:	06:53 Local	Direction from Accident Site:	135°
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.93 inches Hg	Temperature/Dew Point:	17°C / 6°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	Phoenix, AZ	Type of Flight Plan Filed:	
Destination:	Phoenix, AZ	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class G

## Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	None
Passenger Injuries:	2 Serious, 5 Minor, 6 None	Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	2 Serious, 5 Minor, 7 None	Latitude, Longitude:	33.773384,-112.16635(est)

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#### **Administrative Information**

Investigator In Charge (IIC):	Cawthra, Joshua
Additional Participating Persons:	Scott Boek; Federal Aviation Administration; Scottsdale, AZ
Original Publish Date:	May 29, 2024
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=193195

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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