



Aviation Investigation Final Report

Location:	Rio Rancho, New Mexico	Accident Number:	DEN08LA006
Date & Time:	October 9, 2007, 08:30 Local	Registration:	N1024B
Aircraft:	Cameron Balloons Z-105	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 Serious, 3 Minor, 1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot was attempting to land in a large, open field when a gust of wind pushed the balloon down and sideways towards a house. The pilot activated both burners in an attempt to avoid hitting it. The balloon struck the house's parapet wall then the ground, ejecting two passengers. The balloon lifted back into the air, due to the weight loss. The pilot opened the emergency vent and the balloon hit the ground again, ejecting a third passenger. The winds were gusting to 35 mph or greater. The balloon traveled across a street and struck a second house, damaging its swamp cooler. The balloon came to rest on its side in the yard of the second house.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the pilot's inability to maintain aircraft control due to high winds resulting in the aircraft coming in contact with two houses.

Findings

Occurrence #1: IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation: LANDING

Findings 1. (F) WEATHER CONDITION - HIGH WIND -----

Occurrence #2: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: LANDING

Findings

2. (C) AIRCRAFT CONTROL - NOT POSSIBLE - PILOT IN COMMAND 3. OBJECT - RESIDENCE

Factual Information

On October 9, 2007, approximately 0830 mountain daylight time, a Cameron Z-105, N1024B, registered to and operated by the pilot, was substantially damaged when it struck two houses and an arroyo while landing in Rio Rancho, New Mexico. Visual meteorological conditions prevailed at the time of the accident. The personal flight was being conducted under the provisions of Title 14 CFR Part 91 without a flight plan. The pilot was seriously injured, three passengers received minor injuries, and one passenger escaped injury. The local flight originated approximately 0715 from Albuquerque.

The balloon was participating in the Albuquerque International Balloon Fiesta. According to the pilot, the passengers were given a landing briefing. She said the winds were calm on the surface and 8 mph or less during the 1-1/2 hour flight. She was attempting to land in a "very large open field" near Kim Street, about 1/2-mile west of Highway 528, in Rio Rancho. "An unexpected massive gust of wind pushed me down and sideways towards a house," she wrote. She activated both burners in an attempt to avoid hitting the house. The balloon struck the house's parapet wall, then hit the ground and two passengers were ejected. The balloon lifted back into the air, due to the weight loss, and the pilot opened the emergency vent. The balloon hit the ground again, ejecting a third passenger. The winds "were still very severe --- gusting to 35 mph or greater," the pilot wrote. The balloon came to rest on its side in the yard of the second house. A fourth passenger and the pilot crawled out, and the latter lost consciousness. The pilot had sustained multiple fractures, and was hospitalized for 6 days.

Certificate:	Private	Age:	41,Female
Airplane Rating(s):	None	Seat Occupied:	
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:	No	Last Flight Review or Equivalent:	March 1, 2006
Flight Time:	50 hours (Total, all aircraft), 20 hours	s (Total, this make and model), 25 hou	rs (Pilot In Command,

Pilot Information

50 hours (Total, all aircraft), 20 hours (Total, this make and model), 25 hours (Pilot In Command, all aircraft), 7 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft)

Aircraft and Owner/Operator Information

Aircraft Make:	Cameron Balloons	Registration:	N1024B
Model/Series:	Z-105	Aircraft Category:	Balloon
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	6371
Landing Gear Type:	None	Seats:	
Date/Type of Last Inspection:	August 1, 2007 Annual	Certified Max Gross Wt.:	850 lbs
Time Since Last Inspection:		Engines:	
Airframe Total Time:	123 Hrs as of last inspection	Engine Manufacturer:	
ELT:	Not installed	Engine Model/Series:	
Registered Owner:	Roger L. & Kelly N. Baldwin	Rated Power:	
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	ABQ,5355 ft msl	Distance from Accident Site:	15 Nautical Miles
Observation Time:	08:56 Local	Direction from Accident Site:	175°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	300°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.38 inches Hg	Temperature/Dew Point:	12°C / -1°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Albuquerque, NM (NONE)	Type of Flight Plan Filed:	None
Destination:	(NONE)	Type of Clearance:	None
Departure Time:	07:15 Local	Type of Airspace:	

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	3 Minor, 1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious, 3 Minor, 1 None	Latitude, Longitude:	35.27861,-106.625831

Administrative Information

Investigator In Charge (IIC):	Scott, Arnold
Additional Participating Persons:	Bruce Jeffcoat; FAA Flight Standards District Office; Albuquerque, NM
Original Publish Date:	January 31, 2008
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=66907

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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 <u>here</u>.