

Aviation Investigation Final Report

Location:	PEORIA, Arizona	Accident Number:	LAX93LA084
Date & Time:	December 26, 1992, 09:00 Local	Registration:	N2815S
Aircraft:	Raven S-55A	Aircraft Damage:	None
Defining Event:		Injuries:	1 Serious, 2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

THE PILOT SAID THAT AFTER TAKEOFF THE BALLOON DRIFTED IN A NORTHWEST DIRECTION UNTIL IT REACHED A LARGE FIELD THE PILOT HAD SELECTED FOR LANDING. AT ABOUT 50 FEET ABOVE GROUND LEVEL THE PILOT SAID THE BALLOON ENCOUNTERED A LARGE GUST OF WIND AND A WINDSHEAR WHICH PUSHED IT INTO THE GROUND AND CAUSED A HARD LANDING. THE PILOT NOTED THAT HE HAD OBSERVED TWO OTHER BALLOONS MAKE SOFT LANDINGS IN THE SAME FIELD ABOUT 10 MINUTES PRIOR TO HIS LANDING ATTEMPT. A PASSENGER SUSTAINED A FRACTURED FOOT AND VERTEBRAE DURING THE HARD LANDING.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE BALLOON'S ENCOUNTER WITH A GUSTY WIND SHEAR CONDITION DURING THE FINAL DESCENT FOR LANDING AT AN ALTITUDE INSUFFICIENT FOR THE PILOT TO TAKE CORRECTIVE ACTION TO PREVENT A HARD LANDING.

Findings

Occurrence #1: HARD LANDING Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings 1. (C) WEATHER CONDITION - GUSTS

(C) WEATHER CONDITION - WINDSHEAR
REMEDIAL ACTION - NOT POSSIBLE - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Private	Age:	46,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):	None	Toxicology Performed:	No
Medical Certification:	None None	Last FAA Medical Exam:	
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	92 hours (Total, all aircraft), 7 hours (Total, this make and model), 92 hours (Pilot In Command, all aircraft), 7 hours (Last 90 days, all aircraft), 2 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Raven	Registration:	N2815S
Model/Series:	S-55A S-55A	Aircraft Category:	Balloon
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	S55A-1108
Landing Gear Type:		Seats:	
Date/Type of Last Inspection:	October 20, 1992 Annual	Certified Max Gross Wt.:	1435 lbs
Time Since Last Inspection:	19 Hrs	Engines:	0 Unknown
Airframe Total Time:	230 Hrs	Engine Manufacturer:	
ELT:	Not installed	Engine Model/Series:	
Registered Owner:	ROBERT HU& DIANE HUTSON	Rated Power:	
Operator:	LARRY E. DAVIDSON	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	()	Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	35 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	20 knots / 30 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	360°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	16°C / -1°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	08:00 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:	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:	

Administrative Information

Investigator In Charge (IIC):	Rich, Jeff	
Additional Participating Persons:	ROMAN BUETNER; SCOTTSDALE , AZ	
Original Publish Date:	September 28, 1993	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=27899	

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.