

# **Aviation Investigation Final Report**

Location:	PEORIA, Arizona	Accident Number:	LAX93LA084
Date & Time:	December 26, 1992, 09:00 Local	<b>Registration:</b>	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	

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