

# **Aviation Investigation Final Report**

Location:	LAKE CITY, Florida		Accident Number:	MIA93LA166
Date & Time:	July 29, 1993, 22:02	Local	<b>Registration:</b>	N4232C
Aircraft:	CESSNA	414	Aircraft Damage:	Substantial
Defining Event:			Injuries:	3 None
Flight Conducted Under:	Part 91: General aviation - Personal			

### **Analysis**

THE PILOT OF THE TWIN ENGINE AIRPLANE ELECTED TO EXECUTE A PRECAUTIONARY LANDING SHORT OF HIS DESTINATION DUE TO AN ENGINE SURGE. HE LANDED FAST, LONG, AND HARD. THE TIRES BLEW ON LANDING AND THE AIRPLANE SWERVED OFF THE RUNWAY AND STRUCK A DITCH.

### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE FAILURE OF THE PILOT-IN-COMMMAND TO PROPERLY FLARE BEFORE TOUCHDOWN AND THE PILOT'S DECISION TO LAND WITH EXCESSIVE AIRSPEED. A CONTRIBUTING FACTOR WAS THE APREHENSION/ANXIETY OF THE PILOT DURING THE PRECAUTIONARY LANDING.

#### Findings

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

Findings 1. LANDING GEAR, TIRE - BURST 2. (C) FLARE - IMPROPER - PILOT IN COMMAND

- 3. (F) ANXIETY/APPREHENSION PILOT IN COMMAND
- 4. (C) AIRSPEED EXCESSIVE PILOT IN COMMAND

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Occurrence #2: LOSS OF CONTROL - ON GROUND/WATER Phase of Operation: LANDING - ROLL

Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER Phase of Operation: LANDING - ROLL

Findings 5. TERRAIN CONDITION - DITCH

### **Factual Information**

On July 29, 1994, about 2202 eastern daylight time, N4232C, a Cessna 414, registered to the pilot, Rocco Amuso, landed hard and collided with terrain, at Lake City, Florida, while on a 14 CFR Part 91 personal flight. Visual meteorological conditions prevailed at the time and an IFR flight plan was filed. The airplane was substantially damaged and the pilot and two passengers were not injured. The flight originated from Jacksonville, Florida, about 45 minutes earlier.

The pilot stated he was deviating around weather at 10,000 feet when he noticed his right engine surging. He elected to execute a precautionary landing at Lake City, Florida. He landed fast, long and hard. The tires blew on impact and the airplane swerved off the runway striking a runway light, and collided with a ditch. Both wing spars, skin and main landing gears were damaged. Examination of the engines was conducted by a mechanic who stated that he could not locate any condition that would have caused the right engine to surge.

#### **Pilot Information**

Certificate:	Commercial	Age:	42,U
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical–w/ waivers/lim	Last FAA Medical Exam:	August 24, 1992
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	1880 hours (Total, all aircraft), 70 hours (Total, this make and model), 1343 hours (Pilot In Command, all aircraft), 70 hours (Last 90 days, all aircraft), 38 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

#### Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N4232C
Model/Series:	414 414	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	0532
Landing Gear Type:	Retractable - Tricycle	Seats:	7
Date/Type of Last Inspection:	April 5, 1993 Annual	Certified Max Gross Wt.:	6350 lbs
Time Since Last Inspection:	70 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	4022 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	TSIO-520J
Registered Owner:	AIR STEWART INC.	Rated Power:	310 Horsepower
Operator:	AMUSO, ROCCO	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:	Night/dark
<b>Observation Facility, Elevation:</b>	GNV ,113 ft msl	Distance from Accident Site:	24 Nautical Miles
Observation Time:	21:58 Local	Direction from Accident Site:	165°
Lowest Cloud Condition:	Clear	Visibility	7 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	200°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	29°C / 24°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	JACKSONVILLE ,FL (JAX )	Type of Flight Plan Filed:	IFR
Destination:	BUFFALO , NY (BUF )	Type of Clearance:	IFR
Departure Time:	21:17 Local	Type of Airspace:	Class D

## **Airport Information**

Airport:	LAKE CITY 31J	Runway Surface Type:	Asphalt
Airport Elevation:	202 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	28	IFR Approach:	None
Runway Length/Width:	8000 ft / 150 ft	VFR Approach/Landing:	Precautionary landing

## Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	

#### **Administrative Information**

Investigator In Charge (IIC):	Alston, Andrew	
Additional Participating Persons:	GEORGE ERDEL; JACKSONVILLE , FL	
Original Publish Date:	July 25, 1994	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=37378	

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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>.