



# Aviation Investigation Final Report

<b>Location:</b>	READING, Pennsylvania	<b>Accident Number:</b>	NYC85LA082
<b>Date &amp; Time:</b>	February 27, 1985, 11:05 Local	<b>Registration:</b>	N66RA
<b>Aircraft:</b>	PIPER PA-22-108	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation		

## Analysis

THE ACFT OVERTURNED WHILE AWAITING TAKEOFF FROM READING,PA. WIND WAS REPORTED FROM 310 DEGS AT 16 KTS, GUSTING TO 22 KTS. AFTER ENGINE UP THE TOWER ADVISED N66RA TP HOLD FOR LANDING TRAFFIC WHICH WAS A LEAR JET. WIND AT THIS TIME WAS GIVEN AS 310 KTS AT 27 KTS. AFTER THE LEAR JET LANDED, THE PIPER WAS CLEARED INTO POSITION AND TOLD TO HOLD. WHILE CROSSING THE HOLDING LINE A GUST OF WIND CAUGHT THE RIGHT WING AND TAIL AND PUSHED THE ACFT UP ONTO ITS NOSE AND RIGHT WING. THE PLT WAS UNABLE TO RECOVER, TURNED OFF THE ACFT AND EVACUATED. A FEW MINUTES LATER ANOTHER GUST OF WIND PUSHED THE ACFT INVERTED.

## Probable Cause and Findings

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

### Findings

Occurrence #1: ON GROUND/WATER ENCOUNTER WITH WEATHER  
Phase of Operation: TAXI - TO TAKEOFF

#### Findings

1. (C) WEATHER CONDITION - GUSTS
2. (C) PLANNING/DECISION - NOT MAINTAINED - PILOT IN COMMAND

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Occurrence #2: NOSE OVER  
Phase of Operation: STANDING

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	27, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Right
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Valid Medical--w/ waivers/lim	<b>Last FAA Medical Exam:</b>	January 31, 1985
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	1951 hours (Total, all aircraft), 123 hours (Total, this make and model), 1759 hours (Pilot In Command, all aircraft), 113 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	PIPER	<b>Registration:</b>	N66RA
<b>Model/Series:</b>	PA-22-108 PA-22-108	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	22-9431
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	January 15, 1985 Annual	<b>Certified Max Gross Wt.:</b>	1650 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	2323 Hrs	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-235-C1B
<b>Registered Owner:</b>	READING ALLOYS, INC.	<b>Rated Power:</b>	108 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	ATIS	<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Unknown	<b>Visibility</b>	15 miles
<b>Lowest Ceiling:</b>	Broken / 3700 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	20 knots / 29 knots	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	310°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29 inches Hg	<b>Temperature/Dew Point:</b>	10°C / 3°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>		<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	LANCASTER , PA (LNS )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	00:00 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	READING	<b>Runway Surface Type:</b>	
<b>Airport Elevation:</b>		<b>Runway Surface Condition:</b>	
<b>Runway Used:</b>	0	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>		<b>VFR Approach/Landing:</b>	None

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	40.340965,-75.859214(est)

## Administrative Information

**Investigator In Charge (IIC):** Taylor, Vernon

**Additional Participating Persons:**

**Original Publish Date:**

**Last Revision Date:**

**Investigation Class:** [Class](#)

**Note:**

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=35843>

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