



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	MARQUETTE, MI	<b>Accident Number:</b>	CHI86LA136
<b>Date &amp; Time:</b>	05/01/1986, 1131 EDT	<b>Registration:</b>	N313R
<b>Aircraft:</b>	CESSNA 404	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	3 None

**Flight Conducted Under:** Part 91F: Special Flt Ops.

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## Analysis

THE ACFT WAS LANDED ON SNOW COVERED RWY 26 WITH WINDS FROM 300 DEGS AT 20 KTS GUSTING TO 30 KTS. DIRECTIONAL CONTROL OF THE ACFT WAS LOST DURING THE FIRST THIRD OF THE LANDING ROLL AND IT TRAVELED OFF THE LEFT SIDE OF THE RWY. THE ACFT ENTERED SOFT TERRAIN AND THE NOSE GEAR COLLAPSED.

## Probable Cause and Findings

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

## Findings

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Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER  
Phase of Operation: LANDING - ROLL

### Findings

1. (F) WEATHER CONDITION - CROSSWIND
2. (F) TERRAIN CONDITION - SNOW COVERED
3. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2: OVERRUN  
Phase of Operation: LANDING - ROLL

### Findings

4. (C) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND

## Factual Information

### Pilot Information

<b>Certificate:</b>	Airline Transport; Flight Instructor; Commercial	<b>Age:</b>	29, Male
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt, Shoulder harness
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	Airplane Multi-engine; Airplane Single-engine	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	03/01/1986
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	7087 hours (Total, all aircraft), 2734 hours (Total, this make and model), 2200 hours (Pilot In Command, all aircraft), 265 hours (Last 90 days, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N313R
<b>Model/Series:</b>	404 404	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	4040682
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	10
<b>Date/Type of Last Inspection:</b>	04/04/1986, Annual	<b>Certified Max Gross Wt.:</b>	6500 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>	3791 Hours	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	GTSIO-520-M
<b>Registered Owner:</b>	NORTHERN AIR SERVICE	<b>Rated Power:</b>	375 hp
<b>Operator:</b>	NORTHERN AIR SERVICE	<b>Operating Certificate(s) Held:</b>	On-demand Air Taxi (135)

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Day
Observation Facility, Elevation:	MQT, 1419 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	1131 EDT	Direction from Accident Site:	0°
Lowest Cloud Condition:	Unknown / 500 ft agl	Visibility	2 Miles
Lowest Ceiling:	Overcast / 500 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	20 knots / 30 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	320°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:	IRON MOUNTAIN, MI (IMT)	Type of Flight Plan Filed:	IFR
Destination:	MARQUETTE, MI (MQT)	Type of Clearance:	IFR
Departure Time:	1058 EDT	Type of Airspace:	Class E

## Airport Information

Airport:	MARQUETTE (MQJ)	Runway Surface Type:	Asphalt
Airport Elevation:	1419 ft	Runway Surface Condition:	Snow--wet
Runway Used:	26	IFR Approach:	LOC-backcourse
Runway Length/Width:	6500 ft / 150 ft	VFR Approach/Landing:	None

## Wreckage and Impact Information

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

## Administrative Information

Investigator In Charge (IIC):	EDWARD J MCAVOY	Report Date:	
Additional Participating Persons:	R J MCELROY; GRAND RAPIDS, MI GLENN GHANEY; DES PLAINES, IL		
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at <a href="mailto:pubinq@ntsb.gov">pubinq@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .		

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The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).