



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	MUSKEGON, MI	<b>Accident Number:</b>	CHI93LA160
<b>Date &amp; Time:</b>	05/04/1993, 2215 EDT	<b>Registration:</b>	N254AT
<b>Aircraft:</b>	AEROSPATIALE ATR-42-300	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	44 None
<b>Flight Conducted Under:</b>	Part 121: Air Carrier - Scheduled		

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## Analysis

ON LANDING THE PITCH ATTITUDE OF THE AIRPLANE EXCEEDED 10 DEGREES NOSE UP AND THE AFT FUSELAGE CONTACTED THE RUNWAY.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:  
THE PILOT-IN-COMMAND'S MISJUDGING THE FLARE.

## Findings

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Occurrence #1: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER  
Phase of Operation: LANDING - FLARE/TOUCHDOWN

### Findings

1. FUSELAGE,SKIN - BENT
2. (C) FLARE - MISJUDGED - PILOT IN COMMAND

## Factual Information

### Pilot Information

<b>Certificate:</b>	Airline Transport	<b>Age:</b>	29, Male
<b>Airplane Rating(s):</b>	Multi-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>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Valid Medical--no waivers/lim.	<b>Last Medical Exam:</b>	01/18/1993
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	5145 hours (Total, all aircraft), 1775 hours (Total, this make and model), 184 hours (Last 90 days, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Manufacturer:</b>	AEROSPATIALE	<b>Registration:</b>	N254AT
<b>Model/Series:</b>	ATR-42-300 ATR-42-300	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>	Transport	<b>Serial Number:</b>	0254
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	49
<b>Date/Type of Last Inspection:</b>	04/18/1993, AAIP	<b>Certified Max Gross Wt.:</b>	36870 lbs
<b>Time Since Last Inspection:</b>	121 Hours	<b>Engines:</b>	2 Turbo Prop
<b>Airframe Total Time:</b>	3567 Hours	<b>Engine Manufacturer:</b>	P&W
<b>ELT:</b>	Not installed	<b>Engine Model/Series:</b>	PW 120
<b>Registered Owner:</b>	GPA ATR II, INC.	<b>Rated Power:</b>	2000 hp
<b>Operator:</b>	SIMMONS AIRLINES	<b>Air Carrier Operating Certificate:</b>	Commuter Air Carrier (135)
<b>Operator Does Business As:</b>	AMERICAN EAGLE	<b>Operator Designator Code:</b>	SIMA

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	MKG, 628 ft msl	Observation Time:	2140 EDT
Distance from Accident Site:	1 Nautical Miles	Direction from Accident Site:	60°
Lowest Cloud Condition:	Scattered / 1800 ft agl	Temperature/Dew Point:	14° C / 13° C
Lowest Ceiling:	Broken / 2800 ft agl	Visibility	4 Miles
Wind Speed/Gusts, Direction:	Calm	Visibility (RVR):	0 ft
Altimeter Setting:	29 inches Hg	Visibility (RVV):	0 Miles
Precipitation and Obscuration:			
Departure Point:	CHICAGO, IL (ORD)	Type of Flight Plan Filed:	IFR
Destination:		Type of Clearance:	IFR
Departure Time:	2037 CDT	Type of Airspace:	Class D; Class E

## Airport Information

Airport:	MUSKEGON COUNTY (MKG)	Runway Surface Type:	Asphalt
Airport Elevation:	628 ft	Runway Surface Condition:	Dry
Runway Used:	6	IFR Approach:	Visual
Runway Length/Width:	6501 ft / 150 ft	VFR Approach/Landing:	None

## Wreckage and Impact Information

Crew Injuries:	3 None	Aircraft Damage:	Substantial
Passenger Injuries:	41 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	44 None	Latitude, Longitude:	

## Administrative Information

Investigator In Charge (IIC):	STEPHEN A WILSON	Adopted Date:	11/03/1993
Additional Participating Persons:	ROBERT S WIECKOWSKI; GRAND RAPIDS, MI		
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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