



# National Transportation Safety Board Aviation Accident Data Summary

<b>Location:</b>	Fairbanks, AK	<b>Accident Number:</b>	ANC13LA063
<b>Date &amp; Time:</b>	07/02/2013, 1600 AKD	<b>Registration:</b>	N1837M
<b>Aircraft:</b>	CURTISS WRIGHT C-46F	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Flight Test		

## Analysis

During the maintenance test flight, the flight crew moved the landing gear handle to the “down” position but did not observe the three green landing gear down-and-locked lights illuminate. After cycling the landing gear “several” times they observed a gear down-and-locked indication in the cockpit. After landing, while taxiing to parking, the right main landing gear collapsed, and the right wing and aileron struck the ground and sustained substantial damage.

The right landing gear side brace fractured near the fuselage attach forging due to fatigue, which initiated near the weld between the large end fuselage attach forging and the outer tube. No obvious discontinuities such as porosity or undercutting were visually noted in the weld adjacent to the fracture.

## Flight Events

Taxi-from runway - Comm system malf/failure

Taxi-from runway - Landing gear collapse

## Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The failure of the right main landing gear side brace due to fatigue, which resulted in a collapse of the right main landing gear.

## Findings

Aircraft-Aircraft systems-Landing gear system-Main landing gear attach sec-Fatigue/wear/corrosion  
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## Pilot Information

<b>Certificate:</b>	Commercial; Flight Engineer	<b>Age:</b>	55
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land; Single-engine Sea	<b>Instrument Rating(s):</b>	Airplane
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	None
<b>Flight Time:</b>	20100 hours (Total, all aircraft), 3000 hours (Total, this make and model), 20000 hours (Pilot In Command, all aircraft)		

## Co-Pilot Information

<b>Certificate:</b>	Airline Transport	<b>Age:</b>	38
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Instrument Rating(s):</b>	Airplane
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	None
<b>Flight Time:</b>	2100 hours (Total, all aircraft), 95 hours (Total, this make and model), 1700 hours (Pilot In Command, all aircraft), 130 hours (Last 90 days, all aircraft), 25 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Manufacturer:</b>	CURTISS WRIGHT	<b>Registration:</b>	N1837M
<b>Model/Series:</b>	C-46F	<b>Engines:</b>	2 Reciprocating
<b>Operator:</b>	EVERTS AIR FUEL INC	<b>Engine Manufacturer:</b>	P & W
<b>Air Carrier Operating Certificate:</b>	Other Operator of Large Aircraft	<b>Engine Model/Series:</b>	R-2800 SERIES
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Flight Test		

## Meteorological Information and Flight Plan

<b>Observation Facility, Elevation:</b>	PAFA, 439 ft msl	<b>Weather Information Source:</b>	Weather Observation Facility
<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Lowest Ceiling:</b>	Broken / 7000 ft agl
<b>Condition of Light:</b>	Day	<b>Wind Speed/Gusts, Direction:</b>	7 knots, 250°
<b>Temperature:</b>	22° C / 4° C	<b>Visibility</b>	10 Miles
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Fairbanks, AK (PAFA)	<b>Destination:</b>	Fairbanks, AK (PAFA)

## Airport Information

<b>Airport:</b>	Fairbanks International Airpor (PAFA)	<b>Runway Surface Type:</b>	Asphalt
<b>Runway Used:</b>	20R	<b>Runway Surface Condition:</b>	Dry
<b>Runway Length/Width:</b>	11800 ft / 150 ft		

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	N/A	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None

## Administrative Information

<b>Investigator In Charge (IIC):</b>	David B Banning	<b>Adopted Date:</b>	06/02/2014
<b>Investigation Docket:</b>	<a href="http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=87452">http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=87452</a>		

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