



# National Transportation Safety Board Aviation Accident Final Report

<b>Location:</b>	Chicago, IL	<b>Accident Number:</b>	DCA12CA082A
<b>Date &amp; Time:</b>	05/30/2012, 1300 CDT	<b>Registration:</b>	B16481
<b>Aircraft:</b>	BOEING 747	<b>Aircraft Damage:</b>	Minor
<b>Defining Event:</b>	Ground collision	<b>Injuries:</b>	3 None
<b>Flight Conducted Under:</b>	Part 129: Foreign		

## Analysis

On May 30, 2012, at about 1300 central daylight time, American Eagle Airlines flight 4265, an Embraer EMB-135, N834AE, was holding in the ramp area when it was struck by EVA Air flight 661, a Boeing 747-400, registration B16481, while the 747 was taxiing at Chicago O'Hare International Airport (ORD), Chicago, Illinois. The EMB-135 received substantial damage to its rudder and vertical stabilizer and the 747 received minor damage to its wingtip and slat. There were no injuries to any of the passengers or crew on either airplane. Visual meteorological conditions prevailed at the time of the accident.

The EMB-135 was holding in the ramp area with its tail protruding into taxiway (TWY) A while awaiting ground personnel to marshal them into gate G20. The 747 was initially parked at cargo bay SC6 and was instructed to taxi to runway 32L for departure. After crossing runway 28 and taxiing along TWY A, the 747 flight crew stated they saw the EMB-135 stopped short of gate G20. As the 747 approached the EMB-135, the captain stated that he knew it would be close and asked the other two flight crew members to help ensure there was enough wing tip clearance. Both of these crew members stated that there should be enough clearance based on their perspective in the cockpit. As the 747 taxied past the EMB-135, the leading edge slat of the B747 struck the vertical stabilizer of the EMB-135.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the 747 flight crew's failure to maintain a safe clearance with the EMB-135 that was stopped on a taxiway.

## Findings

<b>Personnel issues</b>	Perception - Flight crew (Cause) Incorrect action performance - Flight crew (Cause)
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## Factual Information

### History of Flight

Taxi-to runway	Ground collision (Defining event)
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### Pilot Information

Certificate:	Airline Transport	Age:	57
Airplane Rating(s):	Multi-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 1 With Waivers/Limitations	Last Medical Exam:	02/22/2012
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	04/13/2012
Flight Time:	15661 hours (Total, all aircraft), 6244 hours (Total, this make and model), 5636 hours (Pilot In Command, all aircraft), 247 hours (Last 90 days, all aircraft), 93 hours (Last 30 days, all aircraft)		

### Co-Pilot Information

Certificate:	Airline Transport	Age:	60
Airplane Rating(s):	Multi-engine Land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 1 With Waivers/Limitations	Last Medical Exam:	02/01/2012
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	03/14/2012
Flight Time:	16108 hours (Total, all aircraft), 7327 hours (Total, this make and model), 212 hours (Last 90 days, all aircraft), 80 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Manufacturer:	BOEING	Registration:	B16481
Model/Series:	747 45EF	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Transport	Serial Number:	30607
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	05/16/2012, Continuous Airworthiness	Certified Max Gross Wt.:	870000 lbs
Time Since Last Inspection:		Engines:	4 Turbo Fan
Airframe Total Time:	57114 Hours	Engine Manufacturer:	GE
ELT:	Installed, not activated	Engine Model/Series:	CF6-80C2-B1F
Registered Owner:	Julystar 747-00 Limited	Rated Power:	57160 lbs
Operator:	EVA AIRWAYS CORP	Air Carrier Operating Certificate:	Foreign Air Carrier (129)
Operator Does Business As:		Operator Designator Code:	QOCF

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	ORD	Observation Time:	1251 CDT
Distance from Accident Site:	0 Nautical Miles	Direction from Accident Site:	
Lowest Cloud Condition:	Few / 4700 ft agl	Temperature/Dew Point:	21 °C / 6 °C
Lowest Ceiling:	Broken / 6000 ft agl	Visibility	10 Miles
Wind Speed/Gusts, Direction:	9 knots, 310°	Visibility (RVR):	
Altimeter Setting:	29.91 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:			
Departure Point:	Chicago, IL (ORD)	Type of Flight Plan Filed:	IFR
Destination:	Anchorage, AK (ANC)	Type of Clearance:	IFR
Departure Time:	CDT	Type of Airspace:	

## Airport Information

Airport:	Chicago O'Hare International (ORD)	Runway Surface Type:	
Airport Elevation:	672 ft	Runway Surface Condition:	
Runway Used:	N/A	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	

## Wreckage and Impact Information

Crew Injuries:	3 None	Aircraft Damage:	Minor
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	41.973333, -87.903333 (est)

## Administrative Information

Investigator In Charge (IIC): Daniel R Bower Adopted Date: 04/08/2016

**Additional Participating Persons:**

Publish Date: 04/08/2016

Note: This accident report documents the factual circumstances of this accident as described to the NTSB.

Investigation Docket: <http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=83801>

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