

**National Transportation Safety Board
Washington, DC 20594**

Brief of Incident

Adopted 03/31/2008

OPS08IA002A

File No. 23376	12/02/2007	Baltimore, MD	Aircraft Reg No. N781CA	Time (Local): 19:22 EST
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Make/Model: Bombardier, Inc. / CRJ1

Engine Make/Model:

Aircraft Damage: None

Number of Engines: Unk/Nr

Operating Certificate(s): Commuter Air Carrier

Name of Carrier: COMAIR INC

Type of Flight Operation: Scheduled; Domestic; Passenger Only

Reg. Flight Conducted Under: Part 121: Air Carrier

	Fatal	Serious	Minor/None
Crew	0	0	3
Pass	0	0	50

Last Depart. Point: Same as Accident/Incident Location

Destination: MA

Airport Proximity: On Airport/Airstrip

Airport Name: BALTIMORE-WASHINGTON INTL

Runway Identification: 15R

Runway Length/Width (Ft): 9501 / 150

Runway Surface: Asphalt

Runway Surface Condition: Wet

Condition of Light: Night

Weather Info Src: Weather Observation Facility

Basic Weather: Visual Conditions

Lowest Ceiling: 10 Ft. AGL, Broken

Visibility: 5.00 SM

Wind Dir/Speed: Calm

Temperature (°C): 4

Precip/Obscuration:

Pilot-in-Command Age:

Flight Time (Hours)

Certificate(s)/Rating(s)

Total All Aircraft: Unk/Nr

Last 90 Days: Unk/Nr

Total Make/Model: Unk/Nr

Total Instrument Time: Unk/Nr

Instrument Ratings

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Brief of Incident

Adopted 03/31/2008

OPS08IA002B

File No. 23376

12/02/2007

Baltimore, MD

Aircraft Reg No. N659AW

Time (Local): 19:22 EST

Make/Model: Airbus Industrie / A320

Engine Make/Model:

Aircraft Damage: None

Number of Engines: Unk/Nr

Operating Certificate(s): Flag Carrier/Domestic

Name of Carrier: AMERICA WEST AIRLINES INC

Type of Flight Operation: Scheduled; Domestic; Passenger Only

Reg. Flight Conducted Under: Part 121: Air Carrier

	Fatal	Serious	Minor/None
Crew	0	0	5
Pass	0	0	126

Last Depart. Point: Phoenix, AZ

Destination: Same as Accident/Incident Location

Airport Proximity: On Airport/Airstrip

Airport Name: BALTIMORE-WASHINGTON INTL

Runway Identification: 10

Runway Length/Width (Ft): 10502 / 200

Runway Surface: Asphalt

Runway Surface Condition: Wet

Condition of Light: Night
Weather Info Src: Weather Observation Facility
Basic Weather: Visual Conditions
Lowest Ceiling: 10 Ft. AGL, Broken
Visibility: 5.00 SM
Wind Dir/Speed: Calm
Temperature (°C): 4
Precip/Obscuration:

Pilot-in-Command Age:

Flight Time (Hours)

Certificate(s)/Rating(s)

Total All Aircraft: Unk/Nr
Last 90 Days: Unk/Nr
Total Make/Model: Unk/Nr
Total Instrument Time: Unk/Nr

Instrument Ratings

On December 2, 2007, at approximately 1922 Eastern Standard time (EST), Comair, Inc., flight 5412 (COM5412), N781CA, a Bombardier Canadair Regional Jet, departed runway 15R and over flew America West Airlines flight 83 (AWE 83), N659AW, an Airbus Industrie A-320, that had landed on runway 10, at Baltimore/Washington International Thurgood Marshall Airport (BWI), Baltimore, Maryland. Both aircraft were operating as a 14 Code of Federal Regulations Part 121 flight and both crews had filed instrument flight rules flight plans. There were no injuries to the occupants of either aircraft and neither aircraft was damaged. The incident occurred during night visual flight rules conditions.

About 1919:07, when AWE 83 was approximately six mile final for landing on runway 10, the BWI local controller cleared AWE 83 to land. The pilot of AWE 83 acknowledged the landing clearance.

About 1920:33, as evidenced by BWI radar data and Airport Movement Area Safety System (AMASS) data, AWE 83 was two and one half mile final to runway 10 when the local controller cleared COM5412 for takeoff on runway 15R. At the time of the takeoff clearance, COM5412 was situated on taxiway A about 500 feet south of the departure end of runway 15R. The pilot of COM5412 acknowledged the takeoff clearance.

About 1921:29, the ASDE (airport surface detection equipment) tower display showed the runway 10 red hold bars illuminated for AWE 83 on final approach to runway 10.

About 1921:38, the ASDE tower display showed the runway 15R red hold bars illuminated for COM5412 departing on runway 15R.

About 1921:47, the ASDE tower display alerted with both visual and aural alarms. According to the local controller, from the back of the tower cab, an aural alert announced, "WARNING: AWE83, runways 10, 15R, converging." The AMASS also displayed numerous visual alarms such as a textual warning box, red hold bars for both runways indicating restricted runway/taxi crossing points, and purple circles around each aircraft as they approached the intersection of runways 10 and 15R. According to the local controller, he had turned his back from the runway operations to ask another controller to adjust the volume on the Domestic Events Network (DEN) line when he heard the AMASS alert. As the local controller turned back towards the local control position, he looked at the ASDE display and saw the circles around the two targets. After recognizing the situation, the local controller said, "Comair, Comair, cancel, cancel or" According to the COM5412 pilot's statement, they were at V1/Vr speed passing taxiway F on runway 15R, when the local controller attempted to instruct the crew to cancel takeoff clearance; however, it was too late to abort the takeoff. COM5412 crossed in front of AWE83, as AWE 83 proceeded through the intersection of runways 10 and 15R. According to the FAA Runway Safety office, COM5412 missed AWE 83 by 400 feet laterally and 400 feet vertically. The FAA Runway Safety Office classified the incident as category "B" event.

About 1922:17, the local controller instructed AWE83 to turn left on runway 4/22, and advised the crew to contact ground control. The pilot of AWE 83 acknowledged.

PERSONNEL INFORMATION

The BWI ATCT local controller was appropriately certified and qualified to perform his assigned duties. He received his control tower operator's certificate in 1981 and had been working at as an air traffic controller for 26 years. Certification and experience for the captains and first officers of both aircraft was not requested.

METEOROLOGICAL INFORMATION

The BWI special weather observation for 1917EST was: Wind calm, visibility 5 statute miles, light rain and mist, sky conditions ceiling broken at 1,000 feet, overcast 3,000 feet, temperature 39, dew point 39 and altimeter 30.02 inches.

WRECKAGE AND IMPACT INFORMATION

There was no damage reported for either aircraft.

ADDITIONAL INFORMATION

Airport Information

BWI serves airline, air taxi, military, and general aviation aircraft. The annual air activity averages 307,000 flight operations per year. BWI had four runways, 10/28, 15L/33R, 15R/33L and 4/22. Runway 10/28 was 10,502 feet long and 200 feet wide with high intensity runway lights (HIRLS). The runway surface consisted of an asphalt/grooved surface in fair condition. Runway 15R/33L was 9,501 feet long and 150 feet wide with HIRLS. Runway 15R/33L surface consisted of an asphalt/grooved surface in fair condition. The airport field elevation was 146 feet msl. The tower was equipped with an AMASS.

The National Transportation Safety Board determines the probable cause(s) of this incident as follows.

The probable cause of this incident is local controller's failure of maintaining awareness of the situation and failing to provide the appropriate separation between the two aircraft operating on intersecting runways. Providing separation between aircraft is a first duty priority, in accordance with FAA Order 7110.65.