



National Transportation Safety Board Aviation Accident Data Summary

Location:	Teterboro, NJ	Accident Number:	DCA05MA031
Date & Time:	02/02/2005, 0718 EST	Registration:	N370V
Aircraft:	Bombardier CL-600-1A11	Injuries:	4 Serious, 9 Minor
Flight Conducted Under:	Part 135: Air Taxi & Commuter - Non-scheduled		

Analysis

The Safety Board's full report is available at <http://www.nts.gov/publictn/publictn.htm>. The Aircraft Accident Report number is NTSB/AAR-06/04.

On February 2, 2005, about 0718 eastern standard time, a Bombardier Challenger CL-600-1A11, N370V, ran off the departure end of runway 6 at Teterboro Airport (TEB), Teterboro, New Jersey, at a ground speed of about 110 knots; through an airport perimeter fence; across a six-lane highway (where it struck a vehicle); and into a parking lot before impacting a building. The two pilots were seriously injured, as were two occupants in the vehicle. The cabin aide, eight passengers, and one person in the building received minor injuries. The airplane was destroyed by impact forces and postimpact fire. The accident flight was an on-demand passenger charter flight from TEB to Chicago Midway Airport, Chicago, Illinois. The flight was subject to the provisions of 14 Code of Federal Regulations (CFR) Part 135 and operated by Platinum Jet Management, LLC (PJM), Fort Lauderdale, Florida, under the auspices of a charter management agreement with Darby Aviation (Darby), Muscle Shoals, Alabama. Visual meteorological conditions prevailed for the flight, which operated on an instrument flight rules flight plan.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the pilots' failure to ensure the airplane was loaded within weight and balance limits and their attempt to takeoff with the center of gravity well forward of the forward takeoff limit, which prevented the airplane from rotating at the intended rotation speed.

Contributing to the accident were: 1) PJM's conduct of charter flights (using PJM pilots and airplanes) without proper Federal Aviation Administration (FAA) certification and its failure to ensure that all for-hire flights were conducted in accordance with 14 CFR Part 135 requirements; 2) Darby Aviation's failure to maintain operational control over 14 CFR Part 135 flights being conducted under its certificate by PJM, which resulted in an environment conducive to the development of systemic patterns of flight crew performance deficiencies like those observed in this accident; 3) the failure of the Birmingham, Alabama, FAA Flight Standards District Office to provide adequate surveillance and oversight of operations conducted under Darby's Part 135 certificate; and 4) the FAA's tacit approval of arrangements such as that between Darby and PJM.

Findings

Occurrence #1: OVERRUN
Phase of Operation: TAKEOFF - ABORTED

Findings

1. (C) PREFLIGHT PLANNING/PREPARATION - INADEQUATE - FLIGHTCREW

2. (C) AIRCRAFT WEIGHT AND BALANCE - EXCEEDED - FLIGHTCREW
 3. (C) ROTATION - NOT ATTAINED - FLIGHTCREW
 4. (F) INFORMATION - COMPANY/OPERATOR MANAGEMENT
 5. (C) INFORMATION UNCLEAR - COMPANY/OPERATOR MANAGEMENT
 6. (C) INADEQUATE SURVEILLANCE OF OPERATION - COMPANY/OPERATOR MGMT
 7. (F) INFORMATION
 8. (C) INADEQUATE SURVEILLANCE OF OPERATION - FAA(ORGANIZATION)
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Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER
Phase of Operation: TAKEOFF - ABORTED

Findings

9. OBJECT - FENCE
10. OBJECT - VEHICLE
11. OBJECT - BUILDING(NONRESIDENTIAL)

Pilot Information

Certificate:	Airline Transport	Age:	58
Airplane Rating(s):	Multi-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):		Instructor Rating(s):	
Flight Time:	15060 hours (Total, all aircraft)		

Co-Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	31
Airplane Rating(s):	Multi-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):		Instructor Rating(s):	Instrument Airplane
Flight Time:	5957 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Bombardier	Registration:	N370V
Model/Series:	CL-600-1A11	Engines:	2 Turbo Fan
Operator:	Platinum Jet Managment	Engine Manufacturer:	Allied Signal
Operating Certificate(s) Held:	None	Engine Model/Series:	ALF-502-L22
Flight Conducted Under:	Part 135: Air Taxi & Commuter - Non-scheduled		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Dawn
Observation Facility, Elevation:	KTEB, 18 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None	Wind Speed/Gusts, Direction:	3 knots / , 10°
Temperature:	-6 °C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Teterboro, NJ (KTEB)	Destination:	Chicago, IL (KMDW)

Airport Information

Airport:	Teterboro NJ (KTEB)	Runway Surface Type:	Asphalt
Runway Used:	6	Runway Surface Condition:	Dry
Runway Length/Width:	6000 ft / 150 ft		

Wreckage and Impact Information

Crew Injuries:	2 Serious, 1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	8 Minor	Aircraft Fire:	On-Ground
Ground Injuries:	2 Serious	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC):	William R English	Adopted Date:	02/01/2007
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 pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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