



National Transportation Safety Board Aviation Accident Data Summary

Location:	Pittsburgh, PA	Accident Number:	ERA11CA046
Date & Time:	11/02/2010, 1900 EDT	Registration:	N454SW
Aircraft:	BOMBARDIER INC CL-600-2B19	Injuries:	41 None
Flight Conducted Under:	Part 121: Air Carrier - Scheduled		

Analysis

According to the operator, the airplane was parked at the gate preparing to be pushed back when the damage occurred. A ground crew worker had connected an air-starter cart to the airplane, and then determined that the air cart was not functioning properly. The worker attempted to pull the cart away from the airplane without disconnecting the hose, resulting in substantial damage to the skin panels on the left, lower side of the airplane's fuselage.

Flight Events

Standing - Ground handling event

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The ground crew's failure to detach the air-starter hose from the airplane before moving the cart away resulting in structural damage to a skin panel.

Findings

Personnel issues-Physical-(general)-(general)-Ground crew - C

Pilot Information

Certificate:	Airline Transport; Flight Instructor; Commercial	Age:	27
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane
Flight Time:	5328 hours (Total, all aircraft), 3278 hours (Total, this make and model)		

Co-Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	35
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane
Flight Time:	5979 hours (Total, all aircraft), 3146 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	BOMBARDIER INC	Registration:	N454SW
Model/Series:	CL-600-2B19	Engines:	2 Turbo Fan
Operator:	SkyWest Airlines	Engine Manufacturer:	GE
Air Carrier Operating Certificate:	Flag carrier (121)	Engine Model/Series:	CF34-3B1
Flight Conducted Under:	Part 121: Air Carrier - Scheduled		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	PIT, 1203 ft msl	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	Broken / 11000 ft agl
Condition of Light:	Night	Wind Speed/Gusts, Direction:	4 knots, 40°
Temperature:	8°C / -4°C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Pittsburgh, PA (PIT)	Destination:	Minneapolis, MN (MSP)

Airport Information

Airport:	Pittsburgh International Airpor (PIT)	Runway Surface Type:	
Runway Used:	N/A	Runway Surface Condition:	
Runway Length/Width:			

Wreckage and Impact Information

Crew Injuries:	3 None	Aircraft Damage:	Substantial
Passenger Injuries:	38 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None

Administrative Information

Investigator In Charge (IIC):	Jose Obregon	Adopted Date:	06/20/2011
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=77725		

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report.