



National Transportation Safety Board Aviation Incident Data Summary

Location:	Denver, CO	Incident Number:	DEN07IA058
Date & Time:	02/02/2007, 1738 MST	Registration:	N928UA
Aircraft:	Boeing 737-522	Injuries:	101 None
Flight Conducted Under:	Part 121: Air Carrier - Scheduled		

Analysis

The snowplow driver had been plowing snow on an airport service road. When he finished, the driver departed for another area of the airport that needed plowing, which required crossing a taxiway and active runway. The driver stopped short of the taxiway, but without ATC or airport operations clearance, crossed the runway. The driver saw a landing airplane as he was crossing the runway and increased acceleration. The flight crew saw the snowplow holding short of the taxiway. They landed, but during the landing roll, they saw the snowplow cross in front of them. "Significant" reverse thrust and brakes were used to bring the aircraft to a halt on the runway. The ground controller did not see the snowplow, but was alerted to the runway incursion by the flight crew's report. The Airport Movement Area Safety System (AMASS) was operational, but no alarm sounded.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this incident to be: The snowplow driver's failure to follow procedures/directives by crossing an active runway without clearance, resulting in a runway incursion and near collision with an airplane during its landing roll.

Findings

Occurrence #1: MISCELLANEOUS/OTHER
Phase of Operation: LANDING - ROLL

Findings

1. AIRPORT EQUIPMENT, SNOW REMOVAL - OTHER
2. (C) PROCEDURES/DIRECTIVES - NOT FOLLOWED - DRIVER OF VEHICLE

Pilot Information

Certificate:	Airline Transport	Age:	40
Airplane Rating(s):	Multi-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	6975 hours (Total, all aircraft), 2544 hours (Total, this make and model), 241 hours (Pilot In Command, all aircraft), 116 hours (Last 90 days, all aircraft), 63 hours (Last 30 days, all aircraft), 9 hours (Last 24 hours, all aircraft)		

Co-Pilot Information

Certificate:	Commercial	Age:	38
Airplane Rating(s):	Multi-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	2084 hours (Total, all aircraft), 942 hours (Total, this make and model), 167 hours (Pilot In Command, all aircraft), 9 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft), 9 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Boeing	Registration:	N928UA
Model/Series:	737-522	Engines:	2 Turbo Jet
Operator:	United AirLines, Inc.	Engine Manufacturer:	General Electric
Operating Certificate(s) Held:	Flag carrier (121)	Engine Model/Series:	CFM56-3-B1
Flight Conducted Under:	Part 121: Air Carrier - Scheduled		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night
Observation Facility, Elevation:	DEN, 5431 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	Broken / 14000 ft agl	Wind Speed/Gusts, Direction:	13 knots / , 260°
Temperature:	-5° C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Billings, MT (BIL)	Destination:	Denver, CO (DEN)

Airport Information

Airport:	Denver International Airport (DEN)	Runway Surface Type:	Concrete
Runway Used:	26	Runway Surface Condition:	Unknown
Runway Length/Width:	12000 ft / 150 ft		

Wreckage and Impact Information

Crew Injuries:	5 None	Aircraft Damage:	None
Passenger Injuries:	96 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:	39.861667, -104.673056		

Administrative Information

Investigator In Charge (IIC): Arnold W Scott

Adopted Date: 07/25/2007

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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