



National Transportation Safety Board Aviation Incident Final Report

Location:	MADISON, WI	Incident Number:	CHI87IA039
Date & Time:	12/01/1986, 2326 CST	Registration:	N786NC
Aircraft:	DOUGLAS DC-9-51	Aircraft Damage:	Minor
Defining Event:		Injuries:	114 None

Flight Conducted Under: Part 121: Air Carrier - Scheduled

Analysis

AIRCRAFT SLID OFF THE RIGHT SIDE THE RUNWAY DURING THE ROLLOUT FROM A CROSS WIND LANDING AND STRUCK 6 RUNWAY EDGE LIGHTS CAUSING MINOR DAMAGE TO THE INBOARD TRAILING EDGE OF THE RIGHT FLAP. AT THE TIME OF THE INCIDENT THERE WAS 1/2 INCH OF SNOW ON THE RUNWAY AND BRAKING ACTION WAS REPORTED AS POOR. THE PIC WAS ABLE TO REGAIN CONTROL AND RETURNED THE AIRCRAFT TO THE RUNWAY WHERE THE REMAINDER OF THE LANDING ROLL WAS COMPLETED WITHOUT FURTHER INCIDENT.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this incident to be:

Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

Findings

1. (F) WEATHER CONDITION - CROSSWIND
2. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
3. (C) GROUND LOOP/SWERVE - NOT CORRECTED - PILOT IN COMMAND
4. (F) WEATHER CONDITION - SNOW
5. (F) LIGHT CONDITION - DARK NIGHT

Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: LANDING - ROLL

Findings

6. TERRAIN CONDITION - SNOW COVERED

Occurrence #3: ON GROUND/WATER COLLISION WITH OBJECT

Phase of Operation: LANDING - ROLL

Factual Information

Pilot Information

Certificate:	Airline Transport	Age:	43, Male
Airplane Rating(s):	Multi-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	10/30/1986
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	16000 hours (Total, all aircraft), 5000 hours (Total, this make and model), 240 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	DOUGLAS	Registration:	N786NC
Model/Series:	DC-9-51 DC9-51	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	48148
Landing Gear Type:	Retractable - Tricycle	Seats:	
Date/Type of Last Inspection:	AAIP	Certified Max Gross Wt.:	110000 lbs
Time Since Last Inspection:		Engines:	2 Turbo Fan
Airframe Total Time:		Engine Manufacturer:	P&W
ELT:	Not installed	Engine Model/Series:	JT8D-17
Registered Owner:	NORTHWEST AIRLINES	Rated Power:	
Operator:	NORTHWEST AIRLINES	Operating Certificate(s) Held:	Flag carrier (121)
Operator Does Business As:		Operator Designator Code:	NWAA

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Partial Obscuration / 0 ft agl	Visibility	0 Miles
Lowest Ceiling:	Overcast / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	15 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	70°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	0° C / -18° C
Precipitation and Obscuration:			
Departure Point:	DETROIT, MI (DTW)	Type of Flight Plan Filed:	IFR
Destination:		Type of Clearance:	IFR
Departure Time:	0000	Type of Airspace:	Class D

Airport Information

Airport:	MADISON/DANE CNTY. (MSN)	Runway Surface Type:	Asphalt
Airport Elevation:	862 ft	Runway Surface Condition:	Snow--wet
Runway Used:	18	IFR Approach:	ILS
Runway Length/Width:	9005 ft / 150 ft	VFR Approach/Landing:	Full Stop; Straight-in

Wreckage and Impact Information

Crew Injuries:	5 None	Aircraft Damage:	Minor
Passenger Injuries:	109 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	114 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	WILLIAM C BRUCE	Report Date:	04/25/1988
Additional Participating Persons:			
Publish Date:			
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 pubinquiry@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).