



**NTSB** National Transportation Safety Board

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*Office of Aviation Safety*

## **Runway Overrun**

Bombardier CRJ-200

Pinnacle Airlines

Traverse City, Michigan

April 12, 2007



# History of Flight

- Scheduled flight from Minneapolis, Minnesota
- Delayed due to weather
- Crew duty time near limits
- Crew complained of being tired
- First officer new to airplane

# History of Flight

- Winds acceptable, flight dispatched late
- Crew received field condition report
  - Thin wet snow over patchy thin ice
  - Friction 40 MU
- Landing distance assessment
  - Required, not performed
  - Would have shown insufficient length for conditions

# History of Flight

- Aware of contaminant
- Careful with thrust reversers
- Airport operations
  - Accumulating snow
  - Braking “nil” – blocked transmission
  - “Probably nil”
  - About 1/2 inch snow accumulation

# History of Flight

- Continued approach
- Touchdown 2,400 feet
- Deployed thrust reversers twice
- Airplane yawed and exited runway
- Nosegear separated
- Passengers exited safely

# Safety Issues

- Flight crew decision-making
- Fatigue
- Check airman duty limits
- Runway criteria – winter weather
- Airport operations communications

# Parties to the Investigation

- Federal Aviation Administration
- Pinnacle Airlines
- Northwest Airlines
- Northwest Regional Airport Commission
- Air Line Pilots Association
- GE Aviation
- Transportation Safety Board – Canada
  - Bombardier
  - Transport Canada





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