

NTSB National Transportation Safety Board

Office of Aviation Safety

Human Performance

Bombardier CRJ-200
Pinnacle Airlines
Traverse City, Michigan
April 12, 2007

Human Performance Issues

- Decision-making
- Fatigue
- Training



Decision-making

- Captain familiar with procedure
- Crew received updated weather information
- Adequate time available
- Pilots were trained and had time to perform landing distance assessment



Fatigue

- Accident at 12:43 a.m.
- 14 hours on duty
- Four previous landings
- Cockpit voice recorder contained statements about being tired and yawns



Fatigue

- Check airman duties increased captain's workload during duty day
- Increased workload likely aggravated fatigue for captain



Fatigue effects

- Long duty periods associated with errors/accidents
- Degrades decision-making
- Poor decision-making likely reflected the effects of fatigue



Training

 Must reinforce the need for calculating landing distance assessments



Recommendations

- Hours of service standards
- Training guidance
- Fatigue management programs





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