

Bureau de la sécurité des transports du Canada



TSB presentation to NATA 2014

NATA Annual General Meeting 2014
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Member, Transportation Safety Board
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Outline

- About the TSB
- Lillabelle Lake
 - Report summary
 - Recommendations
- Resolute Bay
 - Report summary
 - Recommendation/Safety concern

About the TSB

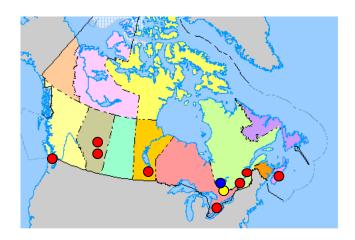
Mission: To advance transportation safety in the marine, pipeline, rail, and air modes of transportation that are under federal jurisdiction by:

- conducting independent investigations
- identifying safety deficiencies
- identifying causes and contributing factors
- making recommendations
- making our reports public



TSB Offices

- Head Office is in Gatineau, Quebec
- The Engineering Laboratory is in Ottawa, Ontario
- Regional offices are located across the country to allow investigators to quickly reach the scene of an accident:



- Vancouver, British Columbia
- Calgary, Alberta
- Edmonton, Alberta
- Winnipeg, Manitoba
- Toronto, Ontario
- Montréal, Quebec
- Québec, Quebec
- Halifax, Nova Scotia



Lillabelle Lake (A12O0071)



Lillabelle Lake: Key Findings

- There was significant mechanical turbulence and associated wind shear.
- During the attempted overshoot, the rapid application of full power caused the aircraft to yaw to the left, and a left roll quickly developed. This movement, in combination with a high angle of attack and low airspeed, likely caused the aircraft to stall.
- The pilot survived the impact, but was unable to exit the aircraft, possibly due to difficulties finding or opening an exit. The pilot subsequently drowned.
- The rear-seat passenger did not have a shoulder harness and was critically injured. The passenger's head struck the pilot's seat in front; this passenger did not exit the aircraft and drowned.



Lillabelle Lake: Recommendations

 The Department of Transport require underwater egress training for all flight crews engaged in commercial seaplane operations. (A13-02)

Current status: Satisfactory Intent

• The Department of Transport require that all seaplanes in commercial service certificated for 9 or fewer passengers be fitted with seatbelts that include shoulder harnesses on all passenger seats. (A13-03)

Current status: *Unsatisfactory*



Previous TSB Floatplane Recommendations

 The Department of Transport require that all new and existing commercial seaplanes be fitted with regular and emergency exits that allow rapid egress following a survivable collision with water. (A11-05)

Current status: Unable to Assess

 The Department of Transport require that occupants of commercial seaplanes wear a device that provides personal flotation following emergency egress. (A11-06)

Current status: Satisfactory Intent



Resolute Bay (A11H0002)





Stabilized approaches



Stabilized approaches: Recommendation

Transport Canada require CARs Subpart 705 operators to monitor and reduce the incidence of unstable approaches that continue to a landing. (A14-01)

Crew Resource Management



CRM: Safety Concern

The Board is concerned that, without a comprehensive and integrated approach to CRM by Transport Canada and aviation operators, flight crews may not routinely practise effective CRM.

Conclusions

- Floatplanes: More is needed from the regulator, but ...
- Many companies are already taking independent, proactive action, rather than waiting for mandatory regulations from TC. (e.g., egress training, PFDs, pop-out windows and doors)
- Stabilized approaches: Too many are continued to a landing.
 Companies need to provide specific guidance in SOPs, or use technology to monitor and identify instances of risk.
- CRM: we want to see a comprehensive and integrated approach to monitor and reinforce best practices.



Questions?

Canada