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Safety Board
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Bureau de la sécurité
des transports
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Canada

Outline

- About the TSB
- The Watchlist: an overview and update
 - Multi-modal issue
 - Air issues
- TSB investigation into air taxi operations



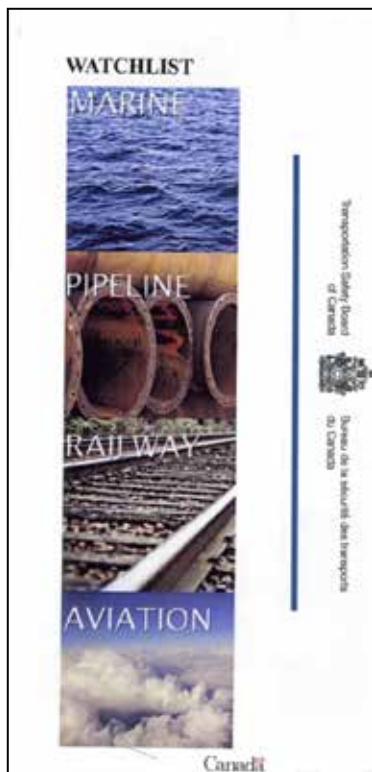
About the TSB

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



The Watchlist



- First published in 2010
- Identifies the issues posing the most critical safety issues
- Backed by investigations, safety concerns, Board recommendations



The Watchlist: goals

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- Raise public and media awareness about the safety risks
- Demonstrate how concrete action will advance transportation safety
- Deliver corporate messages about our mandate
- Build on existing credibility, stimulate dialogue and **trigger action** by change agents



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Watchlist 3.0



New issue

Expanded issues

Issue removed

Outstanding issues

Canada



Multi-modal issue



Safety management and oversight

Problem:

Some transportation companies are not effectively managing their safety risks, and TC oversight and intervention has not always proven effective at changing companies' unsafe operating practices.



Lac-Mégantic (R13D0054)



Resolute Bay (A11H0002)



Safety management and oversight (cont'd)

Solution:

- Transport Canada must expand regulations to require all operators to have formal safety management processes, and conduct regular oversight.
- Operators that are required to have safety management systems (SMS) must demonstrate they are working.
- When required, Transport Canada must intervene to change unsafe operating practices.



Watchlist issue removed



Collisions with land and water

- New regulations now require Terrain Awareness and Warning Systems (TAWS) aboard a wider range of aircraft.
- Non-precision instrument approach procedures now provide pilots with guidance to make stabilized descents.



Air issues



Approach-and-landing accidents



Risk of collisions on runways



Approach-and-landing accidents

Problem

Landing accidents continue to occur at Canadian airports.

Solution

- Measures must be taken to reduce unstable approaches that are continued to a landing.
- Transport Canada must complete its analysis and move forward with regulatory changes.
- Airports must proactively assess risk and where appropriate, lengthen runway end safety areas or install other systems to safely stop planes that overrun runways.



Risk of collisions on runways

Problem

There is an ongoing risk of aircraft colliding with vehicles or other aircraft on the ground at Canadian airports.

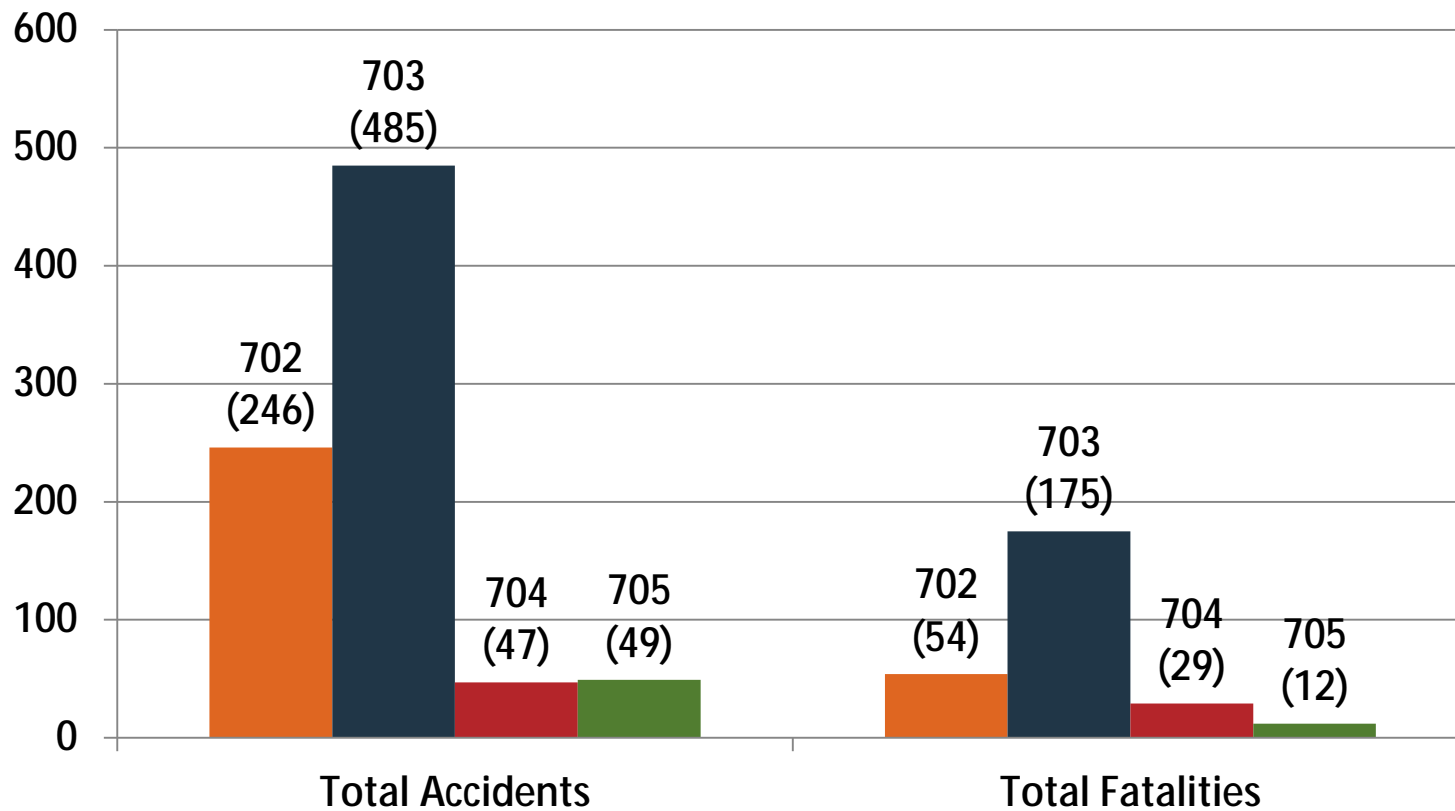
Solution

- Improved procedures and enhanced collision warning systems must be implemented at Canada's airports.



Air taxis — accident statistics

Accidents involving Canadian-registered aircraft



Total number of accidents and fatalities from 2004 to 2013 by operator type.



Air taxis — Common risk factors

- Pilot inexperience
- Insufficient training
- Deficiencies in pilot decision-making
- Deficiencies in crew resource management
- Inadequate (if any) risk analysis of operations
- Crew adaptations from standard operating procedures
- Deficiencies in operational control



Launch of Special Issues Investigation (SII)

- Terms of reference not yet finalized.
- We will be speaking with operators and industry associations to obtain input.
- We will be seeking examples of “best practices.”
- The goal: identify the underlying safety issues.
- We may make recommendations to address identified systemic deficiencies.



Questions?



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