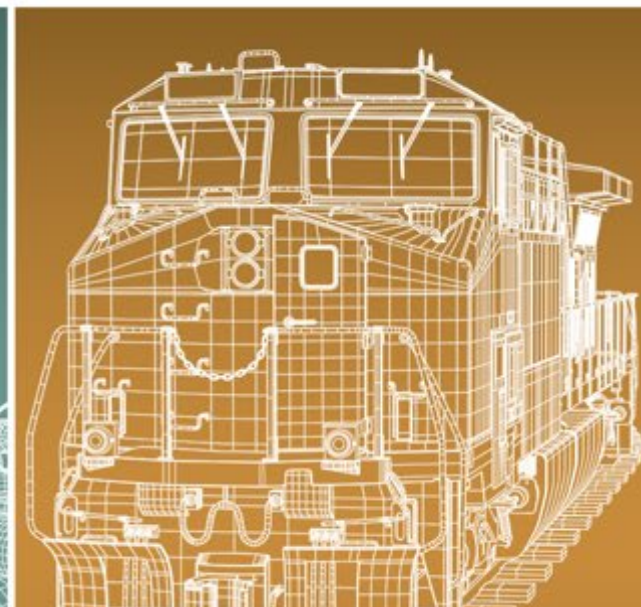
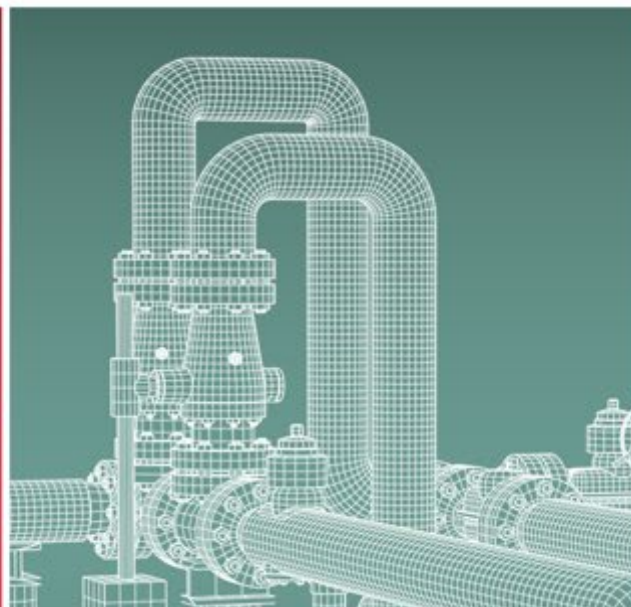




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TSB Session- 2025

Karie Allen and Melody Szabo
Transportation Safety Board of Canada

Agenda



- Introductions
- Who is the TSB?
- Reporting to the TSB
- Securitas
- Safety Issues Investigation – Vessel fires and response





INTRODUCTIONS



Who is the TSB?



- Independent Federal Agency created in 1990
- GOAL: to advance transportation safety in Canada.
- Conduct investigations in air, marine, pipeline and rail.
 - Identify safety deficiencies
 - Identify causes and contributing factors
 - Make recommendations
 - Report to the public
 - Safety letters, reports, recommendations, outreach and TSB WATCHLIST
- The TSB does not attribute blame or determine civil or criminal liability.



THE TSB



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Who is the TSB?

- Office Locations



- The Head Office is in Gatineau, Quebec
- The Laboratory is in Ottawa, Ontario
- Regional offices located across the country allow investigators to quickly reach accident sites.



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

*offices where Marine Investigators are located

Who is the TSB? - The People



Marine Investigations

Navigators
Marine Engineers
Naval Architects

Director
Managers
Technical Writers
Data Entry Officer

Investigation Team

Human Factors Investigators
Laboratory Investigators
Administration Officers

5 Board members, incl. Chair

**Total of approximately 220
employees, about 30 dedicated
to Marine Investigations**





REPORTING OCCURRENCES TO THE TSB



Reporting to the TSB



Why make a report to the TSB?

- *To provide details about marine occurrences in Canadian waters*

The more we know about occurrences, the better we can understand the factors that may cause them. We can also learn about what works to prevent further harm.

Nobody wants an accident to happen, often the root cause of an accident is not clear or well understood. *

An investigator be able to link a safety issue to other reports in the industry to evaluate risk.

The data can show trends in each segment of the industry. Investigate general issues (SII).



When to report to the TSB



Transportation Safety Board Regulations, s.3

- 3 (1)
- a) person killed / serious injury;
 - b) person overboard (accident);
 - c) a crew member related to the safe operation of the ship is unable to perform their duties;
 - d) the ship
 - i. sinks, founders or capsizes,
 - ii. collision or a risk of collision,
 - iii. fire / explosion,
 - iv. goes aground,
 - v. bottom contact,
 - vi. damage affecting seaworthiness,
 - vii. anchored, grounded or beached to avoid an occurrence,
 - viii. missing or abandoned,
 - ix. fouls a utility cable/pipe/pipeline
 - x. sustains a total failure (disabled) and/or needs to be towed
 - e) ship's cargo shifts or falls overboard
 - f) accidental pollution released overboard

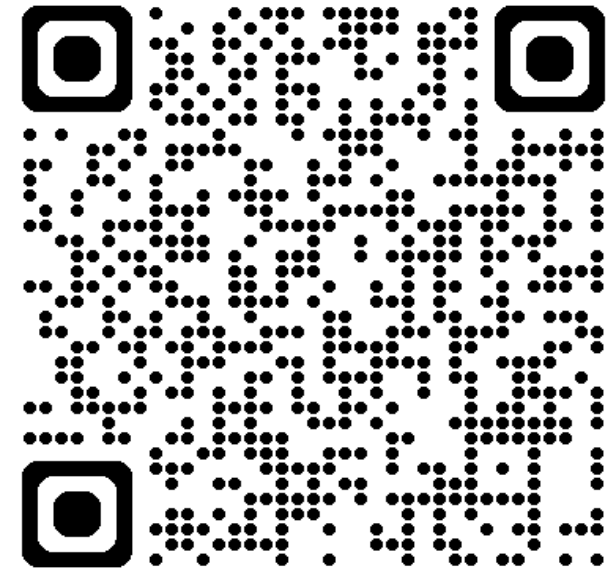
TSB REPORTING





- Program used to report situations that pose risks to the transportation system in Canada, and that would otherwise go unreported.
- The confidentiality of people reporting to SECURITAS is guaranteed.
- securitas@bst-tsb.gc.ca

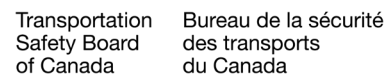
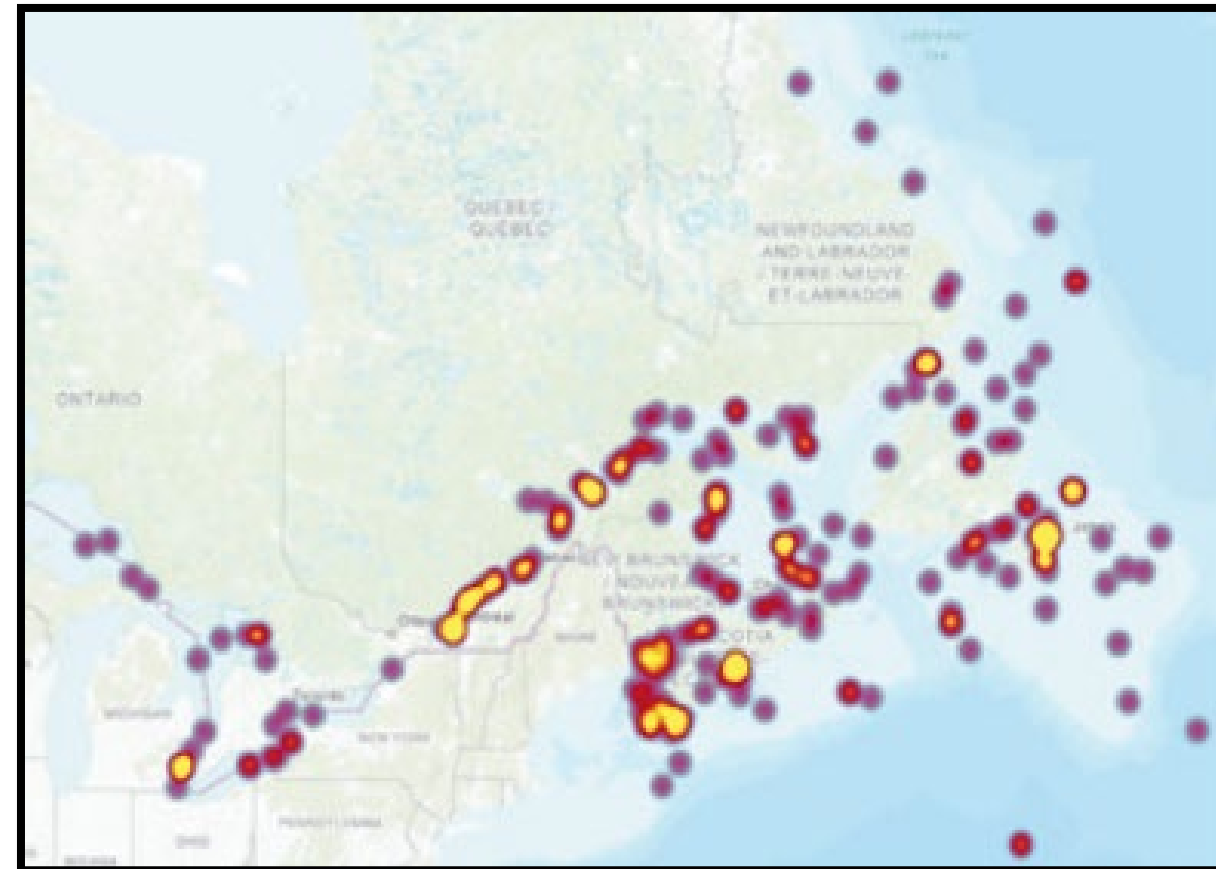
SECURITAS





Safety Issues Investigation – Vessel fires and response

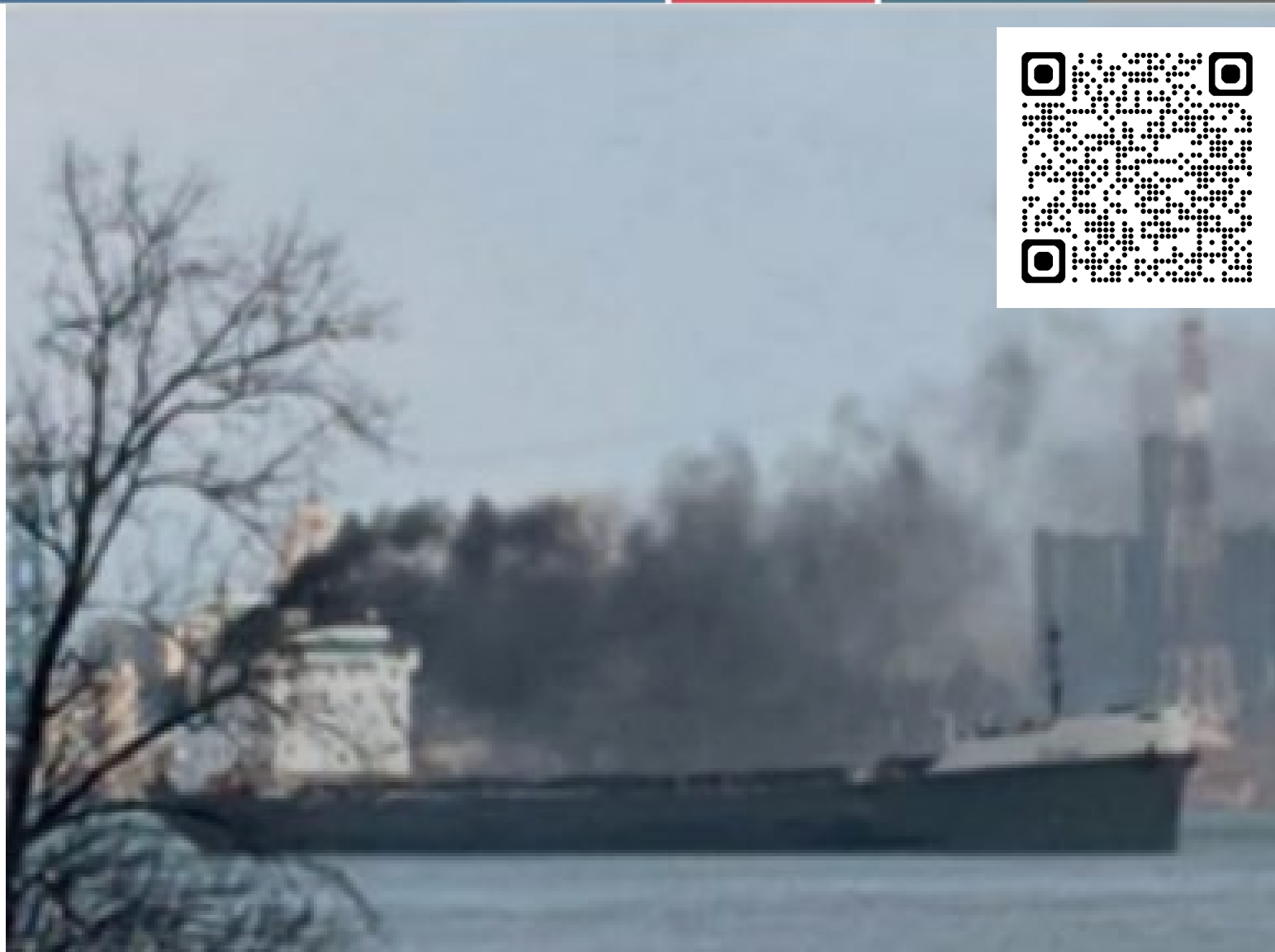
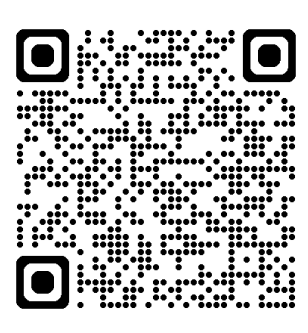




Tecumseh (M19C0403)



December 2019, the bulk carrier Tecumseh had an engine room fire while near Windsor, Ontario. The vessel's fixed fire suppression was activated. Although the fire was initially extinguished, it reignited after crew re-entry introduced fresh air into the engine room.



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Zim Kingston (M21P0297)

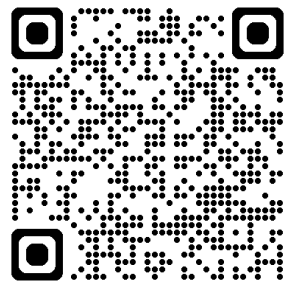


October 2021, the container vessel ZIM Kingston experienced parametric rolling, resulting in the loss of 109 containers overboard and damage to others. Thirty-six hours later, anchored off Victoria, BC, a fire broke out in a damaged container and spread to five nearby containers. The fire burned for five days before it was declared extinguished.



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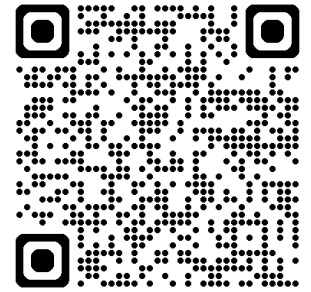
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Atlantic Destiny (M21A0041)



March 2021, when the fishing vessel Atlantic Destiny was south of Yarmouth, NS, the shaft generators exploded, causing a fire and damage that led to flooding in the engine room.



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Holiday Island (M22A0258)

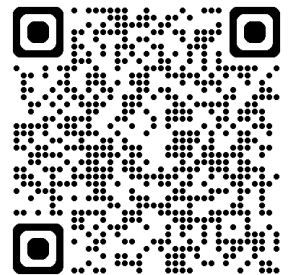


July 2022, a fire broke out in the engine room of the Holiday Island near Wood Islands, PEI. Passengers and crew were safely evacuated, and a large-scale emergency response followed. Despite efforts by responders, the fire could not be extinguished, and the vessel was abandoned.



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Safety Issues Investigation



The Transportation Safety Board of Canada (TSB) has launched a national safety issue investigation (SII) into **fires on commercial vessels and emergency response** in Canada. (M24A0348)

Did you know?

An SII is broad in scope and involves an in-depth review of multiple occurrences and consultations with key industry stakeholders.



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Safety Issues Investigation survey



TSB is investigating **fires on commercial vessels** and **emergency response** in Canada.

Le BST enquête sur les **incendies à bord de navires commerciaux** et **l'intervention d'urgence** au Canada.

Join the conversation
Prenez part à la conversation



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