POLICY & ROAD SAFETY BRIEFING

Raised dump-body alerts: make safety the standard

A technical and legislative path to mandate dependable, fault-monitored warning systems on commercial heavy vehicles.

PROVINCIAL REGULATORY PROPOSAL



THE OPERATIONAL HAZARD

An alert can fail silently when its components fail

At highway speeds, a raised dump body creates catastrophic risks for highway overpasses, overhead utility infrastructure, and surrounding motorists. With rear visibility obstructed, drivers rely entirely on in-cab indicators.

The unmonitored trap: If a mechanical switch severs, a sensor disconnects, or wiring corrodes from road de-icing salts, typical unmonitored systems fall silent. The driver assumes the box is safely down because no alarm sounds.

A broken safety circuit must never give the same driver signal as a safe, fully lowered dump body.



SYSTEM ARCHITECTURE

Require monitoring throughout the warning system

Never treat an open circuit, lost signal or unknown state as a safely lowered body.

Position sensor

Monitor bed position, angle and proximity; verify physical contact and detect damaged or bypassed switches.

→

Cables & controller

Verify sensor integrity and wiring continuity; detect line breaks, shorts, disconnected plugs and corrosion grounds.

→

Driver warning

Monitor alarm output; provide an audible buzzer and visible amber flasher, plus a distinct fault tone or code.

Verification: Define the faults and operating conditions to test — without claiming every conceivable failure is detectable.

REGULATORY BENCHMARK

Québec offers a practical starting point

Québec mandated visual and audible in-cab warnings for dump trucks; standardizing comprehensive fault monitoring is the logical evolution.

ESTABLISHED FOUNDATION Québec SAAQ Baseline	→	THE PROPOSED POLICY ADVANCE Continuous Circuit Supervision
Mandate: In-cab audible sounder and flashing visual indicator when the dump body is not fully lowered.		**Monitor: Ask for manual sensor testing and diagnostics.**
Guidance: Periodically test the position sensor and disconnect secondary switches.		**Define faults: Cable cuts, sensor loss, indicator failure.**
Proof: Fleet-wide retrofit and manufacturing mandates are technically and economically feasible.		**Harmonize: Align inspection standards across provincial jurisdictions for interprovincial freight fleets.**

LEGISLATIVE ROADMAP

Write the requirement into the law or regulation

Enforceable statutory language can support high adoption across heavy vocational fleets while referencing recognized standards.

Core Statutory Provisions

- **Mandated Warning Signals:** Dual audible and visible in-cab alerts when box departs full resting rest.
- **Supervised Loop Requirement:** Continuous monitoring of sensor lines, power supply, and cab indicators.
- **Enforceable Standard:** Ministry technical regulations define fault thresholds, response timing, and accredited retrofitting rules.

Commercial Availability

Turnkey solutions already exist in Canada. Cleral Canada's **BoxAlert** is available across Canada; Cleral describes it as *"one of the most comprehensive and safest systems in the industry today."*

Industry readiness helps fleets comply without operational bottlenecks.



INCLUDE ALL POSSIBLE RISK

The same regulation should apply to raised booms



CONCLUSION & NEXT STEPS

A warning system must also warn when it cannot protect

When provincial transport ministries mandate safety devices, drivers place life-critical trust in them. That trust is violated if a severed wire or loose sensor produces silence.

Our Request:

Ensure any incoming provincial regulation governing raised dump-body alert systems specifies mandatory circuit fault monitoring, diagnostic notification, and verifiable test standards.

ENACT COMPREHENSIVE SAFETY STANDARDS



OUR SOLUTION

We’ve got a solution, proven effective and ready for all of Canada

The BoxAlert system warns the driver with a clear visual and sound alert, and it is ready to deploy across Canada today.

Why it works for your fleet

- Affordable and easy to install
- Clear visual and sound alert within one buzzer/light install in the driver’s field of view
- Alert for a box-up or any systems failure
- Adaptable to your daily job
- Available everywhere in Canada

Cleral describes BoxAlert as “one of the most comprehensive and safest systems in the industry today.”

CLOSING

Make safety our priority, for our infrastructure but mostly for our people.



CLERAL CANADA
NATIONAL DEALER

jpichon@cleralcanada.com

819-860-1709