

Hazard Alert



Elevated Work Platform Tip Over

Hazard Summary

In August 2023, a worker was injured when the articulated boom lift they were operating tipped over. There were two workers in the basket of the boom and one worker was crushed by the other upon impact. Both workers were wearing a harness that kept them inside the basket and prevented them from further injury or potentially death.

Hazard Location

The articulated boom lift was being used on a commercial construction site to allow workers to install the trusses. The ground was firm but slightly sloped away from the structure.



Contributing Factors

The lift was being operated on a side slope that exceeded the lift's maximum slope limit as referenced in the manufacturer's specifications. Consequently, the movement of the boom caused the machine to become unbalanced and to tip over.



Legislated Requirements

- Section 19(4) of the Scaffolding Regulations in the *Occupational Health and Safety Act* states that the owner of a power operated elevating work platform, and an employer who provides a power operated elevating work platform for the use of a worker, shall ensure that the power operated elevating work platform is designed, constructed, erected, maintained, inspected, monitored and used in accordance with the following CSA Standards, as applicable: (c) B354.4-02, "Self-propelled Boom-supported Elevating Work Platforms"
- Section 19(11)(b) of the Scaffolding Regulations in the *Occupational Health and Safety Act* states that an employer who provides a power operating elevating work platform for the use of a worker shall ensure that the work platform is used on a firm, level surface unless otherwise specified by the manufacturer.

CSA Standards

The CSA Group provides free viewable content related to standards referenced in the Legislative Requirement of this Hazard Alert. To access the content, visit the CSA Group website: [csagroup.org](https://www.csagroup.org)

Recommendations

- Review the manufacturer's specifications before operating the equipment. Make sure the equipment inspection is current.
- Make sure workers have the necessary knowledge and training to safely operate the equipment.
- Make sure the equipment is operated on level, stable ground.
- Always wear a harness and lanyard that is secured to the appropriate anchor point while on the work platform.
- Ensure that the circumference of the boom lift is clear of workers to prevent injuries from tools falling from the platform or from being crushed in the event of a tip over.
- Do not exceed the specific weight capacity. Going over the limit could potentially make the lift top-heavy and cause it to tip over. When calculating the weight, always account for the workers and tools present.
- Do not use the work platform for lifting heavy supplies.
- Do not climb on the rails of the platform to reach something.
- Do not operate elevated work platforms in windy conditions.

