



Alberta Elevating Devices
& Amusement Rides
Safety Association

Information Bulletin No. IBE20-001 ISSUED January 31, 2020

Subject: Elevator Car Cab Alterations and Modernizations

Issue:

What are AEDARSA's requirements for elevator Car Cab Alterations or Modernizations?

Background:

Many elevators in Alberta were installed before or during the early 80's and are aging. The trend toward modernization is increasing.

Historically, owners have used a variety of methods to enhance older elevator car cabs from completing the alterations themselves, using different trade professionals such as carpenters, car cab manufacturers and elevator service providers.

There is rising awareness that many alterations have resulted in expensive repairs when elevator owners and service providers make changes to elevator car cabs that do not meet the regulatory requirements that are established to enhance public safety.

Modernizations include major or minor alterations to equipment. Under the *Elevating Devices Permit Regulation* major alterations are subject to an approval process by AEDARSA. Due diligence rests with owners and contractors to adhere with regulations and adopted safety codes involved when alterations are carried out.

Requirements:

Develop and provide a scope of work to AEDARSA prior to starting any changes to the elevator car cabs citing the pertinent code clauses that apply to the alteration. AEDARSA will review the changes to determine if a site inspection is required.

1. Refinishing a car cab interior including flooring replacement is one of the most common modernizations to passenger elevators. Some of the most commonly overlooked areas include:
 - a. Specified flame spread and smoke development characteristics
 - b. Specified safety glass/plastic types for mirrors and enclosures
 - c. Rules limiting elevator car weight increases before load bearing components and counterbalancing (where used) must be evaluated for their ability to handle increased loads

TYPE: Information	Elevator Car Cab Alterations and Modernizations	REGULATION: Elevating Device Code
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- d. Rules governing light levels and fixture protection
- e. Rules governing car top emergency exits and access to them
- f. Rules governing car cab ventilation
- g. Adding all or some special emergency service (formerly fire-fighters control) features to elevators:
 - Numerous and complex safety code rules become applicable to the various elements of such systems when they are installed.
- h. Where relay logic control systems are replaced with solid state systems. While a major alteration, in some cases these have been done without following the approval process.

The formal acceptance and inspection tests needed to confirm that equipment is installed as designed and that safety devices, switches and speed control systems function as per code requirements can be both costly and highly inconvenient for everyone involved when discovered after the fact.

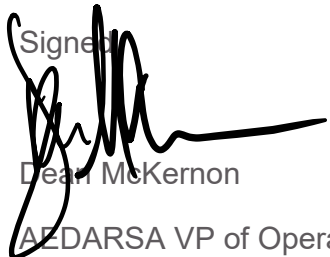
If you have any questions about the elevator you wish to modernize, or alter, please contact AEDARSA.

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Implementation:

This information bulletin is implemented **April 1, 2020**

Signed:

Dean McKernon
AEDARSA VP of Operations

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