



SAFETY NOTICE



Safety Notice Number: **0000009**

Issued November 1, 2023 by Peter McClare, Chief Inspector, Elevator, Lifts and Amusement

Department of Labour, Skills and Immigration

Steel & Elastomeric Suspension

Legal information

[Elevator and Lifts Act](#)

Summary

Suspension Means

Recent Technical Safety elevator audits have discovered safety violations for both steel and elastomeric suspension means. The purpose of this notice is to promote the enforcement actions of Nova Scotia Technical Safety inspectors when the factor of safety is compromised in the elevator suspension means.

Nova Scotia Technical Safety, Elevator and Lift inspectors follow the direction of the *ASME A17.6 Standard for Suspension, Compensation and Governor Systems* when evaluating the condition of the suspension means.

Steel Suspension Means:

Steel rope which has exceeded the allowance for diameter reduction, wire breaks, unfavourable condition, or damage. requiring replacement as indicated by A17.6 section 1.10 Replacement Criteria, will be immediately removed from service.

Suspension and compensating means shall be kept sufficiently clean so that they can be visually inspected (ASME A17.1 section 8.6.4.1.1)

Elastomeric suspension means (Belts):

Elevators will be immediately removed from service if an inspector discovers:

1. The residual strength monitoring device has been taken out of service. **Or**
2. The manufacturers' criteria to maintain residual strength of 60% or greater have been exceeded.

Note MCP requirement:

It is a requirement of the MCP to have a compliance document in place for ropes **less than** 8mm as required by the ASME A17.1 /B44 in 8.6.1.4.1(c).4.

On Site Maintenance Records

CSA B44 8.6.1.4.1(c)4

A written record to document compliance with replacement criteria specified in ASME A17.6 requirement 1.10.1.1(c)

A17.6, 1.10.1.1

*(c) for rope diameters less than 8 mm (0.315 in.), the ropes shall be replaced in accordance with 1.10.1.2(a) through 1.10.1.2(g), 1.10.1.2.1, and 1.10.3. In addition, other replacement criteria based on the application shall be permitted to be applied **and shall be documented in the maintenance control Program** (see ASME A17.1 / CSA B44, requirement 8.6.1.4.1*

Contact Us

Safety Branch - SafetyBranch@novascotia.ca
Labour, Skills and Immigration
1-800-952-2687