Elevators & Lifts

Safety Code Changes and Maintenance Control Program (MCP)

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Agenda

- Safety Branch Overview
- What is Changing with the Codes?
- Maintenance Control Program
- Category Testing
- Roles & Responsibilities

The Role of the Safety Branch

- The Safety Branch concentrates effort on safe and healthy workplaces, work practices, and safety standards protecting the general public.

- Occupational Health and Safety and Technical Safety Divisions of the Safety Branch work closely with government partners, sector councils and businesses.

- The Safety Branch strives to work with Nova Scotians to build a stronger culture of health and safety.

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Technical Safety Division

- At the Technical Safety Division, we make industrial and public safety our priority by achieving compliance with the regulations and safety standards for
  - boilers and pressure equipment;
  - power engineering;
  - elevators and lifts;
  - amusement devises;
  - electrical safety;
  - fuel safety, and;
  - cranes

Elevators and Lifts Section

- The safety of your equipment, operations, clients, and employees is achieved through compliance with the Elevators and Lifts General Regulations under the Elevator and Lifts Act.

- Technical Safety promotes certifying regulated work equipment and systems by preforming inspection services, licensing and permitting work.

- Some of the daily operations of our Elevator and Lifts Technical Safety officers include, elevators Inspection (4500 + Units), new installations, federal inspections, audits, re-inspections, and investigations.

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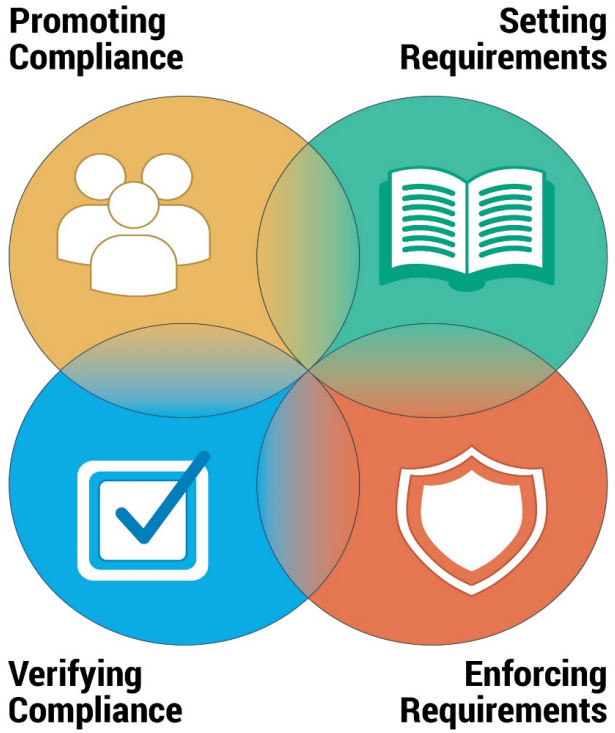
Pathways to Compliance

- Safety of Nova Scotians is our number one priority
- The Pathways to Compliance provides a variety of ways for achieving compliance from setting requirements, to promoting compliance, verifying compliance, and enforcing requirements



Information Services and Support: 1-800-9LABOUR

1-800-9LABOUR is an information line you can call to get safety information or to report a safety concern you see at work. You can also report safety concerns you see in public if they relate to technical equipment (like elevators and lifts, fuel equipment and cranes).

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What is changing?

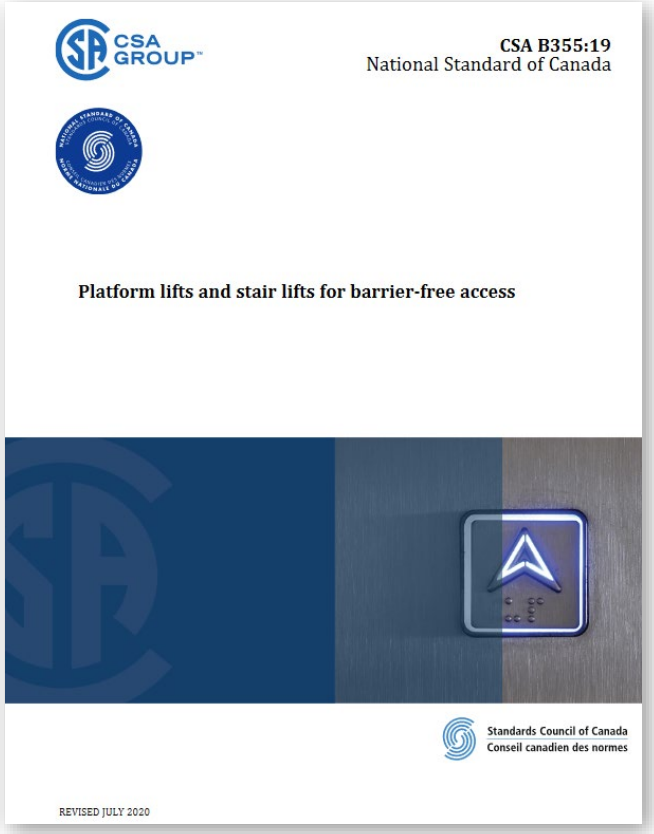
CSA B355:19 Platform Lifts & Stair Lifts for Barrier-Free Access

- Implementing the 2019 Code (previous version was 2015 Code)
- No major impacts in the new code version
- Maintenance Control Program is coming in the next few years for this code

Note:

The past practice of installing keyed operation will not be required unless owners prefer it be installed. This requirement no longer aligns with the code requirements or Provincial accessibility requirements.

Effective date: December 31, 2021



What is changing?

ASME 17.1/CSA B44:19 Safety Code for Elevators & Escalators

- Implementing the 2019 Code (previously on 2016 version)
- Impacts are the addition of enhanced door opening devices

Exclusion:

- Visual and Text communication outlined in 2.27 Emergency Operation and Signaling Devices

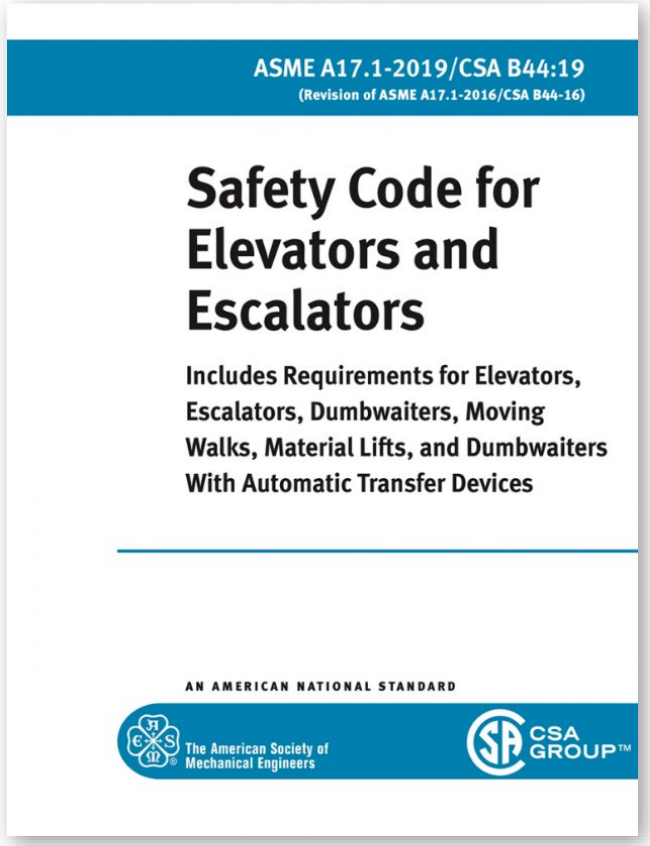
Section 2.27.1.1.3/Section 2.27.1.1.4

"A means to display video to observe passengers…."

"On the same panel as the phone messages shall be displayed…"

- The communication requirements will remain unchanged and follow the CSA B44:2016 code guidelines.

Effective date: December 31, 2021



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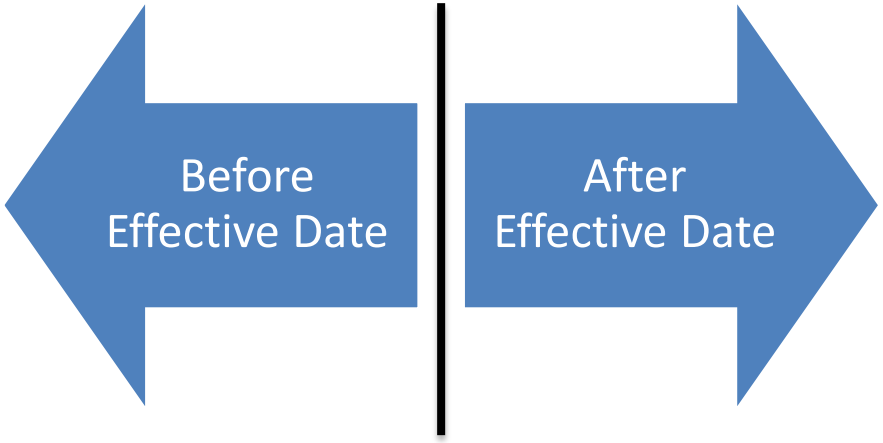
Effective Date Requirements

December 31, 2021

Active permits and projects bid on prior to the effective date shall follow the previous code versions



Active permits and projects bid on after the effective date shall follow the current 2019 code versions

A list of projects pending that do not currently have an active permit must be reported to Technical Safety – Elevators & Lifts **on or before December 31, 2021**

Projects not reported will be held to the inspection criteria of the 2019 code versions

MCP

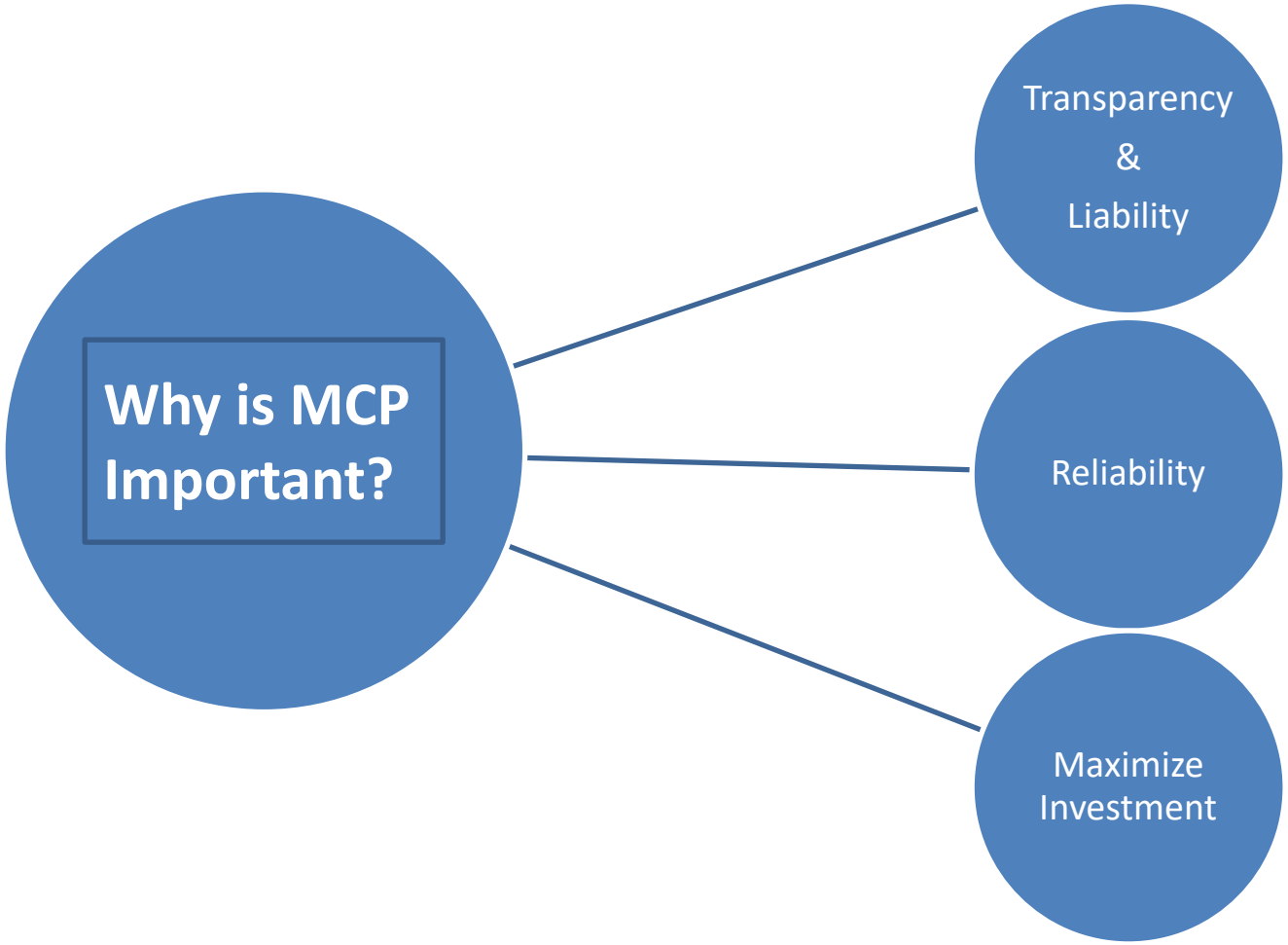
What is MCP? (Maintenance Control Program)

- A documented set of maintenance tasks, maintenance procedures, examinations, and tests to ensure that equipment is maintained in compliance with requirements of Section 8.6 and applicable references of the CSA B44 code.

Importance of the MCP

- There is inconsistent maintenance practices in the industry. Must have a uniform maintenance program to ensure that all contractors are conducting necessary safety tests.
- Technical Safety's compliance inspections have raised awareness to issues/risks within the industry (hoist ropes, safety blocks, incidents, etc.)

MCP



Transparent testing program so building owners and representatives have assurance they have a maintenance program which reduces liability by increasing accountability

Increase elevator reliability

Maximize the lifespan of equipment and reduce parts replacement which protects investments by building owners

MCP

Why Implement MCP Now?

- NS Technical Safety has been evaluating this program as it has been adopted in Canada in the past number of years by multiple jurisdictions. In communication with larger jurisdictions in the country implementation has progressed with minimal issues.
- MCP status in Canada

Adopted	Under Review	No Planned adoption
British Columbia	Quebec	Prince Edward Island
Alberta		Manitoba
Saskatchewan		Yukon
Ontario		Northwest Territories
New Brunswick		Nunavut (No formal info)
Newfoundland		
Nova Scotia		

Category Descriptions

Section 8.6 Maintenance, Repair, Replacement, & Testing – are the general maintenance requirements and within the program, Category 1 and Category 5 are required.

Category 1 (2022 licence renewals & all Cat 1 by December 31, 2022)

- Outlines more frequent testing of systems and switches
- Less intensive
- Prescriptive list of testing requirements outlined in the code

Category 5 (Completed by December 31, 2026)

- Outlines specific safety tests similar to a set of commissioning tests
- More intensive with special equipment to be brought to site to conduct

Category Details

Category 1 Tests – Yearly

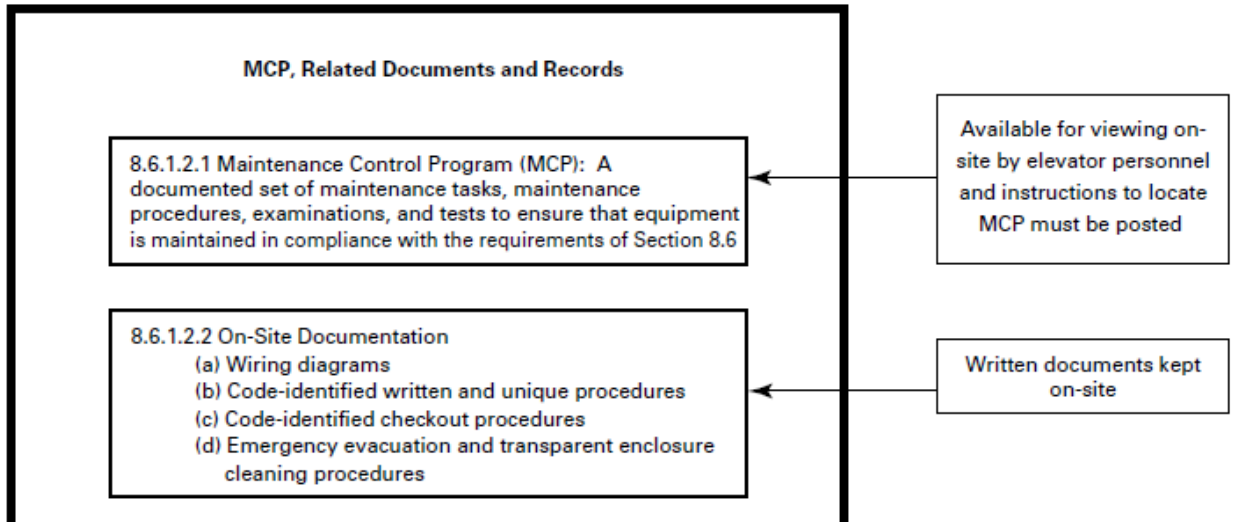
- 8.6.4.19 Electric Elevators (20 Clauses)
- 8.6.5.14 Hydraulic Elevators (13 Clauses)
- 8.6.6 Elevators with Other Types of Drives (6 Clauses)
- 8.6.7 Special Application (As Required)
- 8.6.8.15 Escalators & Moving Walks (24 Clauses)
  - CAT 1 tests for these two are combined in 8.6.8.15
- 8.6.10 Dumbwaiters & Material Lifts (2 Clauses)

Category 5 – Five-year Tests

- 8.6.4.20 Electric Elevators (13 Clauses)
- 8.6.5.16 Hydraulic Elevators (7 Clauses)
- These are significant tests under most adverse conditions:
  - Safety Test (Full Load)
  - Service Brake (Full Load)
  - Emergency Brake

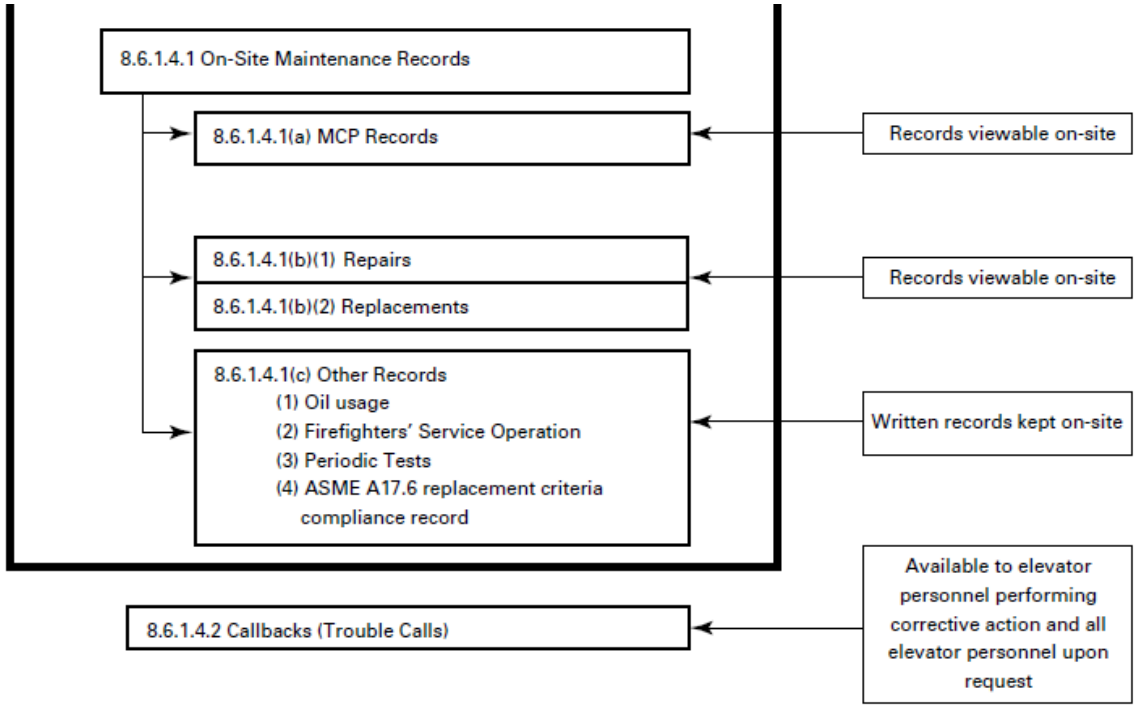
Record Keeping Requirements

Figure Y-1 Maintenance Control Program Records



- Figure Y-1 is found in Appendix Y of the 2019 CSA B44 Code

- On-site documentation is a large component of the Section 8.6 Requirements



Roles & Responsibilities - Owner

ACT

6 (1) No owner of an elevating device shall permit the use or operation of the device unless arrangements have been made by the owner for the device to be maintained by a registered contractor.

Regulations

Requirements for use, operation and maintenance of elevating devices

27 (1) An owner of an elevating device must ensure that the elevating device

(b) is maintained so that

(i) the safety of persons and freight on or near it is ensured, and

Closing

- Post Session - Survey Follow-up
- Questions?

Thank You for Participating!

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