



## SAFETY ORDER

No: SO-L1 110225 4

### DRIVING MACHINE BRAKE - ELECTRIC ELEVATORS

*This safety order is being issued pursuant to section 31 of the Safety Standards Act. A person affected by this safety order may appeal this order, in writing, to the Safety Standards Appeal Board in accordance with Section 51 of the Safety Standards Act. It is an offence under section 72 not to comply with a safety order.*

**Date of Issue:** February 25, 2011

#### **Part 1: Details of Regulated Work or Regulated Product**

This Safety Order supersedes Safety Order No: SO - L10905073 and is issued to all Licensed Elevating Devices Contractors and Building Owners/Property Managers and applies to all DRIVING MACHINE BRAKES of all makes and models conforming to the B44 Safety Code for Elevators and Escalators. Please refer to Information Bulletin B-L4 110225 3 for a summary of the changes.

This safety order is effective immediately.

#### **Part 2: Requirement(s) of This Safety Order**

All Licensed Elevating Devices Contractors and Building Owners/Property Managers are jointly responsible for the requirements of this Safety Order. This Safety Order is to confirm that all Driving Machine Brake Maintenance Requirements conform to items 1 to 5.

#### **1. Examination and Testing of Brakes**

**Every 12 months**, all Licensed Elevating Devices Contractors that maintain elevators with driving machine brakes shall examine, maintain and inspect all driving machine brakes to meet the following requirements:

- a) Ensure adjustment to the torque shown on the data plate, where provided.
- b) The driving-machine brakes shall be **dismantled and cleaned** to ensure safe and proper operation, including, but not limited to, the following components.
  - i) residual pads;
  - ii) linings;
  - iii) pins;
  - iv) springs;
  - v) sleeves; and
  - vi) discs or drums
- c) Ensure full contact of the friction material on the braking surface. Means shall be provided to protect the braking surfaces from contamination caused by any driving-machine fluid leak.

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- d) The driving-machine brake shall be tested:
  - i) to ensure proper operation after dismantling, cleaning, replacement of brake linings or any other component, or any change affecting the operation or adjustment of the brake.
  - ii) to ensure that the car will decelerate from rated speed when power is removed from the driving machine and will brake while an empty car is travelling in the up direction at rated speed.

Note: It is recommended that means other than the disconnect switch be used to remove the power.

## **2. Brake Declarations**

A Brake Declaration (url: <http://www.safetyauthority.ca/form-1208>) must be completely filled out, signed and reviewed after each examination and test. All Licensed Elevating Devices Contractors that maintain elevators with the type of equipment referred to in Part 1 of this safety order shall retain their Brake Declarations in a file at their local office available for auditing by the BCSA. The signature(s) on the declaration forms constitutes a legally binding representation that the work therein referred to complies to all applicable regulations, codes and standards.

## **3. Spread-Sheet**

Every February 25, all Licensed Elevating Devices Contractors must complete the electronic Driving Machine Brake Submission Form (url: <http://www.safetyauthority.ca/Driving-Machine-Brake-Safety-Order-Submission-Form>) ensuring the following information is provided:

- a) Licensed Elevating Devices Contractor Name
- b) Licensed Elevating Devices Contractor Address
- c) Licensed Elevating Devices Contractor contact person and contact information
- d) Notification spreadsheet confirming that all Driving Machine Brakes in their portfolio have been examined and tested as per the requirements of this Safety Order. The notification spreadsheet must include, in respect of each unit examined and tested by the Licensed Elevating Devices Contractor in the preceding year:
  - i) BCSA Unit number
  - ii) Building name
  - iii) Building address
  - iv) Date work was performed



- v) Reason if work not performed. *Any reasons provided may be taken into account by the Provincial Safety Manager in consideration of enforcement actions against a Licensed Elevating Devices Contractor and/or Owner/Property Manager for failure to comply with this Safety Order.*

#### **4. Maintenance Mechanics**

All Licensed Elevating Devices Contractors covered by this Safety Order must adhere to B44-07 clause 8.6.12.2.4 Maintenance Mechanics.

Persons performing maintenance, including repair and replacement work, shall have training, be experienced and be qualified.

NOTE: Maintenance mechanics should

- a) Understand the operational and safety functions of all components of the installation maintained in order to appreciate all safety hazards for maintenance personal and for the general public that might be created during any maintenance procedure
- b) Be able to reasonably assess compatibility of replacement components
- c) Be able to carry out the work required in this Section

#### **5. Logbooks**

Logbooks shall be updated accordingly.

#### **Part 3: Details of Issue (if applicable)**

This safety order is to supersede Safety Order No: SO - L10905073 and is being issued to the following:

- Licensed Elevating Devices Contractors.
- Building Owners and Property Managers.

#### **Part 4: Details of Ordering Safety Manager or Safety Officer – Please read following page**

*I certify that I am authorized to issue this safety order in accordance with section 15 (d) of the Safety Standards Act or that I have been delegated this power under section 15 (g) of the Safety Standards Act.*

Janice Lee, P. Eng  
Provincial Elevating Safety Manager

Date:



### **Safety Standards Act:**

#### Safety Orders

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- (1) To prevent, avoid or reduce risk of personal injury or damage to property, a provincial safety manager may, in writing, issue a safety order.
  - (2) A safety order may be issued to any person in relation to any of the following:
    - (a) regulated work or regulated products generally;
    - (b) a specific class of regulated product or regulated work;
    - (c) a specific regulated product or regulated work.
  - (3) For certainty, a safety order issued under this section may apply to
    - (a) regulated work that meets the requirements under this Act,
    - (b) regulated work that previously met the requirements under this Act or a former Act but does not meet the current requirements under this Act,
    - (c) regulated products that meet the requirements under this Act, or
    - (d) regulated products that previously met the requirements under this Act or a former Act but do not meet the current requirements under this Act, including a regulated product that bears a certification mark.
  - (4) A safety order may specify any requirement that is intended to prevent, avoid or reduce the risk of personal injury or damage to property and may include any of the following orders:
    - (a) that an existing regulated work or regulated product must be made safe in compliance with the safety order;
    - (b) that a regulated product must be
      - (i) disconnected from a power source,
      - (ii) uninstalled, or
      - (iii) modified before continued use;
    - (c) that a regulated product must be operated, installed, manufactured or disposed of only as specified or that a regulated product must not be moved;
    - (d) that current or future regulated work or a regulated product must conform to the terms or conditions of the order;
    - (e) that a person take or refrain from taking any action that a safety manager considers necessary to prevent, avoid or reduce a risk of personal injury to persons or damage to property;
    - (f) that the manufacturer make reasonable efforts to recall the regulated product.
  - (5) The provincial safety manager must give written notice of the safety order to the following persons:
    - (a) the manufacturer of the regulated product;
    - (b) an owner of the regulated product if the identity of the owner is known to the provincial safety manager;
    - (c) the person in charge of the regulated work.
  - (6) The notice must state the reasons for the decision and that the person has the right to appeal the decision to the appeal board.
  - (7) Despite section 54, a safety order may not be stayed during an appeal.

#### **References:**

Safety Standards Act

For more information on the British Columbia Safety Authority, please visit our website at:

[www.safetyauthority.ca](http://www.safetyauthority.ca)