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| Elevating and Amusement Devices Safety Division | Ref. No.: 296 / 22 |
| GUIDELINE | Date: June 10, 2022 |

IN THE MATTER OF:

**THE TECHNICAL STANDARDS AND SAFETY ACT 2000,
S.O. 2000, c. 16
- and -**

**ONTARIO REGULATION 209/01 (Elevating Devices) made under the
Technical Standards and Safety Act, 2000**

- and -

**the Elevating Devices Code Adoption Document dated June 1, 2001, as amended
by ED CAD 295/22**

**Subject: Alteration Guideline and Alteration Checklist for A17.1-2019 / CSA B44:19 Safety Code
for Elevators and Escalators (as amended by 295 / 22)**

Distribution: Posted on TSSA website

1. Effective Date

- 1.1 This Director's Guideline becomes effective on **August 1, 2022** and is to be applied when alterations are performed on any device regulated by the Technical Standards and Safety Authority under the **2019** edition of **ASME A17.1/CSA B44**, as adopted in Code Adoption Document (CAD) Amendment **295 / 22**. This Guideline is to be read in conjunction with the **Director's Order 296 / 22 on Alterations**.

2. Introduction

- 2.1 The purpose of this Guideline, in conjunction with Code Adoption Document (CAD) Amendment **295 / 22** and **Director's Order 296 / 22 on Alterations**, is to provide guidance on alterations and their submissions, including:
- (a) which types of upgrades are classified as alterations;
 - (b) the format of the design submission required (see O.Reg 209/01 s.15), by categorizing the scope of work as "major", "minor A" or "minor B";
 - (c) the use and submittal of the alteration checklist;
 - (d) the use of a summarized list of requirements associated with a given alteration scope via a checklist;
 - (e) **compliance requirements related to any TSSA specified requirements or TSSA defined alterations**.

3. Alterations

- 3.1 An "alteration" is any work performed on an elevating device other than work performed as maintenance, repair, or replacement. Part 8, Section 8.6 of **ASME A17.1-2019 / CSA B44:19** deals with "Maintenance, Repairs, Replacements and Testing", while Section 8.7 deals with "Alterations".
- 3.2 This guideline captures the Alteration requirements of **section 3.1 above** and displays these requirements in a checklist format (see figure 2).

3.3 Type of Alteration Work

Columns 3 to 6 of the Alteration Checklist (see figure 2 for sample) classify the type of work as one of the following types:

- (a) **Alteration: Modification / Change** (column 3)
means a change to the original design or characteristics of a component, assembly, or the device, such as material, strength, size, dimension, rating, setting, function, operational mode, design parameters etc., whereby the change may be made on existing equipment or by substituting new modified equipment.
Note that a change of the component make or model, without any other change, may constitute an alteration under requirements of CAD 295 / 22 or Director's Order 296 / 22 on Alterations (see item (d) below).
- (b) **Alteration: Addition** (column 4)
means addition of a new component or a design feature, not previously provided e.g. addition of top-of-car operating devices.
- (c) **Replacement with same** (column 5)
means the substituted device, assembly or component is the same as the original, and either:
 - (i) requirements within CSA B44 Section 8.6.3 as amended by CAD 295 / 22 classify the specific replacement as an alteration and require that the substituted component and/or the elevating device as a whole meet the specific requirements of the latest Code edition; or
 - (ii) sections 8.6 of CSA B44 as amended by CAD 295 / 22 recognizes the replacement of the noted item as an alteration and requires an appropriate submission.
- (d) **Replacement with different make and model** (column 6)
means that the substituted device, assembly, or component is the same as the original in its design, performance, and safety characteristics, except that it is of a different make and/or model and the CSA B44 code as amended by CAD 295 / 22 recognizes the replacement of the noted item as an alteration and requires an appropriate submission.

*Note: In addition to the work described in section 3.3 and listed in the Alteration Checklist, any other work performed on an elevating device that results in a change to the inherent safety or operational characteristics **constitutes an alteration** per clause 2.6.2 of the CAD, even though there may be no change in the original design. The list of alterations in the attached Alteration Checklist is not all-inclusive.*

4. Type of Design Submission

4.1 Columns 3, 4, 5, and 6 of the alteration checklist contain information needed to determine the type of submission required.

4.2 By selecting the alteration scope (see column 1 of the Alteration checklist, see also ASME A17.1-2019 / CSA B44:19 Section 8.7 as amended by CAD 295 / 22, or Director's Order 296 / 22 on Alterations), the submission type is identified in columns 3, 4, 5, & 6. These entries may be listed as one of the following:

- Major - means Major alteration
- Minor A - means Minor alteration type A
- Minor B - means Minor alteration type B
- Blanks (columns 5&6) - work that would not constitute an alteration
- mrr - this work may proceed as a maintenance repair and replacement activity, and no submission is required

| | | |
|----------|---|---|
| n/a | - | means TSSA has permitted an exception to a compliance requirement (for the noted alteration scope) however, if another alteration activity requires compliance, the n/a exemption no longer applies |
| New | - | means, not an alteration but a new installation |
| † | - | means that no inspection is required following the alteration |
| variance | - | this activity can only be considered after approval of a variance |

Note: The checklist also utilizes a star symbol (★). This symbol is used to identify TSSA designated alterations or to identify a supplemental TSSA requirement.

5. Requirements for Design Submissions and Inspections

- 5.1 A design submission or notification (in the case of a Minor B) shall clearly specify, for each alteration covered, whether the type of the alteration work is a "modification, "addition", or "replacement".
- 5.2 Where multiple alterations scopes are undertaken, the "highest ranking" submission shall define the submission type.
Example: An alteration combination of Minor B and Major will be designated as a Major alteration.

5.2.1 Major Alteration:

- 5.2.1.1 The design submission shall be registered before the major alteration commences, except as permitted in subsection 7(2) of **Ontario Regulation 209/01**.
- 5.2.1.2 The alteration shall be inspected by TSSA prior to returning the device to service for public use.

5.2.2 Minor Alteration type A and B:

- 5.2.1.1 According to Section 19 of **Ontario Regulation 209/01**, the design submission shall be submitted for registration not later than 30 days after returning the elevating device to service. Contractors are advised to submit alteration documents in advance of the work start to ensure that no expense will be incurred should the registration of the proposed design or a requested variance be rejected.

Minor A and B alterations are permitted to be returned to service after work completion, however, the contractor who completed the alteration shall ensure that a "special inspection" has been requested within 60 days after returning the elevator to service. The contractor shall arrange and conduct any tests required by the inspector. A registered design submission or notification shall be available at the time of inspection.

5.3 Signatures

- 5.3.1 Pursuant to subsection 15(6) of **Ontario Regulation 209/01**, all individual documents composing the design submission for any Major or Minor A alteration shall bear the **signature and seal, or electronic equivalent, of the professional engineer** who prepared or approved the design submission.
- 5.3.2 In the case of Minor B alterations, pursuant to subsection 15(9) of **Ontario Regulation 209/01**, the design submission documents (or Notification) may be signed by an officer or director of the company applying for registration if the officer or director is a mechanic or if the document is signed by a mechanic with an appropriate certificate who either performed or supervised the work to which the design submission relates.
- 5.3.3 Minor B's that are electronically transmitted shall be deemed acceptable provided that the signature box of the Minor B Notification form contains the name, designation and mechanic license number of a registered and licensed mechanic who supervised and is competent to oversee the scope of the minor B alteration.
Example: Signature: John Smith, EDM-A, 00999999

5.4 Specification Forms

- 5.4.1 Alterations should be submitted on the appropriate Specification Sheets (depending on device type) and should itemize all entries that are **Directly** and **Indirectly** affected by the alteration scope.

Example: Cab Interior Modification resulting in an increase in cab weight

- Directly affected are interior finishes and flame ratings
- Indirectly affected are items such as: rope factor of safety (for electric & roped hydraulic elevators) or cylinder column strength (for hydraulic elevators)
- Sufficient details are to be provided to show compliance verification.

A list of altered components shall also be summarized on the submission (typically box 4000).

- 5.4.2 Items which are not affected by the alterations should be noted with either:

- **N/C or No Change**; or
- The **Original Entry** followed by **Existing**. Example Car Wt.: **1812 kg - Existing**.

- 5.4.3 Where a “major alteration” or “minor alteration” affects only a very few items, the abridged form may be used instead of the full specification form provided clarity of the submission is not compromised. The Abridged form should specify box numbers, descriptions, and new entry values.
(Example: 1670. Maximum System Pressure: 3445 kPa)

- 5.4.4 Some predefined templates exist for Minor B type alterations and are available from the TSSA web site. These templates shall be utilized where appropriate to ensure all relevant entries are completed and included in the submission. Multiple Minor B notification templates may be utilized to fully cover the scope of work and only one Minor B fee shall apply.

5.5 Submitting an Alteration Checklist

- 5.5.1 The design submission for a Major or Minor A alteration shall include an Alteration Checklist to assist in demonstrating compliance with Section 8.7 of the **CSA B44** code as amended by CAD **295 / 22** or the **Director's Order 296 / 22 on Alterations**. The Checklist must clearly **identify**:

- (a) The scope of the alteration with an 'X' in column 0 adjacent to each column 1 item that is part of the primary scope of the alteration; **and**
- (b) All relevant sub requirements in column 2b with an 'x' placed in column 0 to signify the sub requirement was/has been given engineering consideration and/or modified. Optional: **Desired** items which were given engineering consideration but not changed or deemed not applicable to a given installation may be marked with 'r' to indicate reviewed.

- 5.5.2 An Alteration Checklist is not required for Minor B Notifications.

- 5.5.3 Sections of the Alteration Checklist, which are not included in the scope of the alteration work, may be hidden (using the row-hide feature in excel) to **display relevant alterations and suppress non-relevant alteration items**.

- 5.5.4 To assist our clients in completing the Alteration Checklist, TSSA will post on its Website (www.tssa.org) a fillable version of the Alteration Checklist in excel format (ED-296-22.xlsx).

- 5.5.5 The **CSA B44:19 reference numbers**, shown in column 1 and which are marked with 'X' in the Alterations Checklist, (also shown in **BOLD** font), are **those items that are required to be shown on the Code Data Plate** as per **section 8.9 of ASME A17.1-2019 / CSA B44:19**.

- 5.5.6 The attached Alteration Checklist forms part of this guideline.

6 Alteration Checklist

6.1 The Alteration Checklist provides useful information to contractors, submitting engineers, reviewing engineers and inspectors to assist in determining:

- the scope of the alteration;
- requirements associated with specified scope;
- exemptions to a requirement (where n/a is shown);
- additional TSSA requirements (where ★ is shown); and
- type of submission required (Major, Minor A or B).

6.2 **Parts of the Checklist** (See Fig 2)

6.2.1 Column 0:

Submitter's shall mark Column 0 with 'X' to identify the scope and applicable sub-requirements that received engineering consideration.

- Sub-requirements related to the alteration are mandatory and shall be identified with an 'x', except where the sub requirement is unrelated to the device being altered. (see Fig.2 Note E)

6.2.2 Column 1:

Column 1 contains the Alteration section numbers from ASME A17.1-2019 / CSA B44:19 as amended by CAD 295 / 22, as well as specifically noted TSSA alterations.

TSSA alterations are denoted with a ★ symbol as follows;

- [8.7.2.12]★1 ★1 denotes the first TSSA designated alteration under section 8.7.2.12
- [8.7.2.12]★2 ★2 denotes the second TSSA designated alteration under section 8.7.2.12

6.2.3 Column 2a, 2b and 2c:

Column 2 describes the scope and applicable alteration sub requirements.

- Column 2a is the primary title of the alteration activity (e.g. interlocks)
- Column 2b is the list of sub requirements by reference number (e.g. 2.12.1, 2.12.2)
- Column 2c is a text description of the referenced sub requirement. (e.g. General, Interlocks)

6.2.4 Column 3, 4, 5 and 6:

The headings of Columns 3 to 6 define the "Type of Alteration Work" as Modification Change, Addition, Replacement with Same, and Replacement with Different. See 3.3 of this guideline.

The contents of Columns 3 to 6 define the "Type of Design Submission" as, Major Alteration, Minor A Alteration, or Minor B – Notification. See 4 of this guideline.

| 0 | 1 | 2a | 2b | 2c | 3 | 4 | 5 | 6 |
|-------------------------------|-------------------------|--|---|----|-----------------------------|-----------|------------------|----------------------|
| Conforms to B44 Mark with 'x' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| Job Reference: | | | | | Type of Submission Required | | | |
| | 8.7.2 | Alterations to Electric Elevators | | | | | | |
| | 8.7.2.1 | Hoistway Enclosures | | | Major | Major | | |
| | 8.7.2.11 | Hoistway Door-Locking Devices, Access Switches & Parking Devices | | | | See Below | | D |
| | | For inspection and test requirements, see 8.10.2.3.2(dd) | | | | | | |
| x | 8.7.2.11.1 | Interlocks A | | | - | Major | mrr | Minor B |
| x | | 2.12.1 | General | | | | | |
| x | | 2.12.2 | Interlocks | | | | | |
| x | | 2.12.4 | Listing/Certification Locking Devices | | | | | |
| x | B | 2.12.6 | Hoistway Door Unlocking Devices (n/a for column 5,6) | | | | C | n/a |
| x | | 2.12.7 | Hoistway Access Switches (n/a for column 5,6) | | | | | |
| x | | 2.14.5.7 | Restricted Opening of Car Doors (Interlock or Restrictor) | | | | | |
| x | | 2.24.8.3 | Driving-Machine Brake | | | | D | |
| x | 8.7.2.12 | Power Operation of Hoistway Doors (Addition / Alteration to Power Open or Close) | | | Minor A | Minor A | | |
| | | For inspection and test requirements, see 8.10.2.3.2(a) | | | | | | |
| x | E | 8.7.2.10.1 | Entrances & H/W Openings - General Req'rmts | | | | | |
| x | | 8.7.2.10.2 | Horizontal Slide-Type Entrances | | | | | |
| | | 8.7.2.10.3 | Vertical Slide-Type Entrances | | | | | |
| x | | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| x | F | ★ 2.13 | Power Operation of Hoistway Doors and Car Doors | | | | | |
| x | | | Installed New or Modified components and wiring to meet: | | | | | |
| x | | 8.7.2.8 | Electrical Equipment, Wiring | | | | | |
| x | G | 2.26.4.2 | Listed/Certified and Labeled/Marked B44.1/A17.5 if New | | | | | |
| x | | [8.7.2.12]★1 | ★ Replacement of Door Operator | | - | - | mrr | Minor B |
| x | | 2.13 | Power Operation of Hoistway Doors and Car Doors | | | | | |
| x | | [8.7.2.15]★1,★2 | | | | | | |
| | 8.7.2.13 | Door Reopening Device (Safety Edge) (Altered or Added or replaced) | | | Minor B | Minor B | mrr | Minor B |
| | | For inspection and test requirements, see 8.10.2.3.2(ee) | | | | | | |
| | | 2.13.4 | Closing Limitations for Power Operated HS Doors & Gates | | | | see | |

Fig 2 – Sample Alteration Checklist

Figure 2 Notes:

- A – indicates 8.7.2.11.1 Interlocks is part of the alteration scope
- B – indicates which sub-requirements have been included (note: 2.12.6 was excluded as permitted by exemption note C)
- C – n/a denotes that TSSA has made this requirement optional (note: contractor opted to include requirement 2.12.6 & 7)
- D – specifies the submission type
 - In the Interlock example a Minor B alteration is required to be submitted
 - In the Power Operation of H/W Doors example a Minor A is required (entire submission is a therefore a Minor A)
- E – this sub-requirement, related to vertical slide entrances, was not selected as it is not applicable to the installation
- F – compliance to 2.13 is a TSSA-designated supplemental requirement as denoted by the ★ symbol
- G – shows two TSSA-designated alterations, one denoted as 8.7.2.12★1, the other 8.7.2.15★1.



Roger Neate.

Director, Ontario Regulation 209/01 (Elevating Devices), appointed under the *Technical Standards & Safety Act, 2000*



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| Elevating and Amusement Devices Safety Division | Ref. No.: 296 / 22 |
| Director's Order | Date: June 10, 2022 |

IN THE MATTER OF:

**THE TECHNICAL STANDARDS AND SAFETY ACT 2000,
S.O. 2000, c. 16**

- and -

ONTARIO REGULATION 209/01 (Elevating Devices)

- and -

**the Elevating Devices Code Adoption Document dated June 1, 2001, as amended
by ED CAD 295/22**

Subject: Alterations pursuant to A17.1-2019 / CSA B44:19 Safety Code for Elevators and Escalators (as amended by 295 / 22)

Distribution: Posted on TSSA website

Pursuant to s.14(1) of the *Technical Standards and Safety Act, 2000*, the Director under O. Reg. 209/01 (Elevating Devices) hereby orders, to protect and promote the safety of Ontarians, that pursuant to his power under section 14(2), any device that undergoes an alteration be used only in accordance with the requirements of this Order and that any alterations to any device be conducted in the manner set forth in this Order:

This Order should be read in conjunction with (the applicable Code), the CAD and the Guideline.

1.0 Alterations

All references are to the ASME A17.1/CSA B44 except, references denoted with the ★ symbol (as defined in the Guideline) have been prefaced by the relevant **[ASME/B44 code reference]** to assist in locating / referencing the additional requirements in this document and on the alteration checklist.

In addition to section **8.7 Alterations**, the Director orders that alterations (as applicable) comply with the following:

1.1 Electric Elevator

Alteration to Electric Elevators

(a) In addition to section 8.7.2.7 Machinery Spaces, Machine Rooms, Control Spaces, and Control Rooms, alterations shall comply with the following:

[8.7.2.7]★1 Elevator Equipment Guarding

The installation of elevator equipment guarding shall conform to the following:

- (a) 2.7.2 maintenance path and clearance
- (b) 2.7.3.4.2 access doors or openings in cage style guarding where full bodily entry is expected shall provide a minimum width of 750 mm (29.5 in.) and a minimum clear height of 2030 mm (80 in.)
- (c) 2.10.1 as a minimum
- (d) guarding shall be openable or removable only by use of common tools
- (e) operating procedures or work instructions shall be provided and available in the location of the guarding, to inform users on how to safely access the equipment for inspection, testing or maintenance
- (f) working clearances in front of electrical control equipment shall not be less than 1000 mm (39 in.) as per CAD requirements 2.2.1 (per Ontario Electrical Safety Code 38-005 2(c)) or the permissible clearance required at the time of the original installation.

- (g) access for the operation of the disconnecting means shall be
 - (1) 1000 mm for installations installed under the Ontario Electrical Safety Code 2000 edition or later, or
 - (2) 750mm (29.5 in.) for installations installed under Ontario Electrical Safety Code 1998 edition or prior, or
 - (3) if less than 750 mm, the existing clearances shall not be further reduced
- (h) installation by a registered contractor (O.Reg 209/01 s.24)
- (i) large or heavy sections of guards that may need to be removed or opened for maintenance access shall be designed to be removed or easily handled by one person.

(b) In addition to section 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in Hoistways and Machine Rooms, alterations shall comply with the following:

[8.7.2.8] ★1 Change in Drive (Power conversion equipment)

Where a power conversion drive is replaced with a different drive, the following requirements shall apply

- (a) drive should match the motor output (kW / HP), or if greater kW/HP drive provided, drive to be marked "power limited"
- (b) no change in rated speed
- (c) drive fits into existing cabinet or where a drive does not fit into the existing cabinet, the controller / cabinet modifications need approval to SPE-1000 (Field Evaluation)
- (d) drive is certified, or is part of the SPE-1000 field evaluation
- (e) installation is verified for limits of traction
- (f) if regen included but not previously provided an engineer shall confirm suitability, controller modifications approved to SPE-1000 (Field Evaluation)

(c) In addition to section 8.7.2.10 Entrances and Hoistway Openings, alterations shall comply with the following:

[8.7.2.10] ★1 Removing Service to a Floor

Where service to a floor area is being discontinued, the following requirements shall apply:

- (a) entrances shall be bolted shut
- (b) the related interlock shall be removed from the safety string
- (c) the related floor buttons shall be removed from the car operating station
- (d) 2.11.6.2
- (e) 2.12.7 if the locked-out floor contained the hoistway access switch

[8.7.2.10] ★2 Addition of Hoistway Door Safety Retainers

The addition of hoistway door safety retainers shall comply with the requirements of 2.11.11.8.

(d) In addition to section 8.7.2.12 Power Operation of Hoistway Doors, alterations shall comply with the following:

[8.7.2.12] ★1 Replacement of Door Operator

Where a door operator is replaced the replacement shall conform to the applicable requirements of 2.13 and additional requirement to section [8.7.2.15] ★1, or ★2, except the requirements of 2.13.5.3, 2.13.5.5, and 2.13.5.6 do not apply if not previously provided.

(e) In addition to section 8.7.2.13 Door Reopening Device, alterations shall comply with the following:

[8.7.2.13] ★1 Replacement of Door Operator

The requirements of 8.7.2.13 also apply where a reopening device for power-operated car doors is changed from a mechanical device to an electronic device, or changed from electronic 2D to electronic with approaching object detection capabilities.

(f) In addition to section 8.7.2.14 Car Enclosures, Car Doors and Gates, and Car Illumination, alterations shall comply with the following:

[8.7.2.14] ★1 Installation / Replacement of Car Operating Panel (COP)

The disconnect and reconnect of COP wiring shall be confirmed to verify functionality of COP features and operating devices. Additional requirement [8.7.2.15] ★1 or ★2 below applies.

[8.7.2.14] ★2 Installation of Video/Security Cameras and Monitors

Wiring methods shall conform to 2.8.2.1. Equipment shall be securely fastened and shall not create headroom issues per 2.14.1.2.3 and 2.14.2.4. Additional requirement [8.7.2.15] ★1 or ★2 below applies.

[8.7.2.14] ★3 Installation of Touchless or Handsfree Call Activation

The installation of touchless or handsfree call activation devices shall conform to 8.7.2.8 for all new wiring additions. Where the functioning of these devices could interfere with the safe operation or intended call registration in operating modes other than normal operation, these secondary call registration devices shall be rendered inoperative.

[8.7.2.14] ★4 Car Ventilation with Air Purification

Where an alteration to 8.7.2.14.2(f) impacts top of car clearances, the additional requirements of 2.4.7 apply. Additional requirement [8.7.2.15] ★1 or ★2 below applies where weight changes occur.

[8.7.2.14] ★5 Partitions in Elevator Cars for High-Risk Occupants

Partitions shall be permitted as deemed necessary for the separation and transport of high-risk occupants. The submission shall include rationale of the need and a summarized standard operating procedure that will be followed in the event of Fire Emergency Operation initiation which outlines the intended recall level and means to safely remove occupants. Additional requirement [8.7.2.15] ★1 or ★2 below applies where weight changes occur.

[8.7.2.14] ★6 Installation of Interior Vinyl Graphics – Car Interiors

The installation of vinyl graphics shall conform to the flame and smoke requirements of 2.14.2.1.2

[8.7.2.14] ★7 Installation of Other Equipment

The installation of other equipment is not permitted per 2.14.1.9 unless otherwise permitted under by a variance request.

(g) In addition to section 8.7.2.15 Car Frames and Platforms, alterations shall comply with the following:

[8.7.2.15] ★0 Increase or Decrease in Deadweight of Car – Missing Crosshead Data Tag (Tag Required)

Where an alteration results in any increase or decrease in the deadweight of the car, if no crosshead data plate is existing, a data plate conforming to 2.16.3.2.2 of CSA B44 shall be provided to re-capture the original design data.

[8.7.2.15] ★1 Cumulative Decrease <5% / Cumulative Increase <115kg & <5% (171/02)

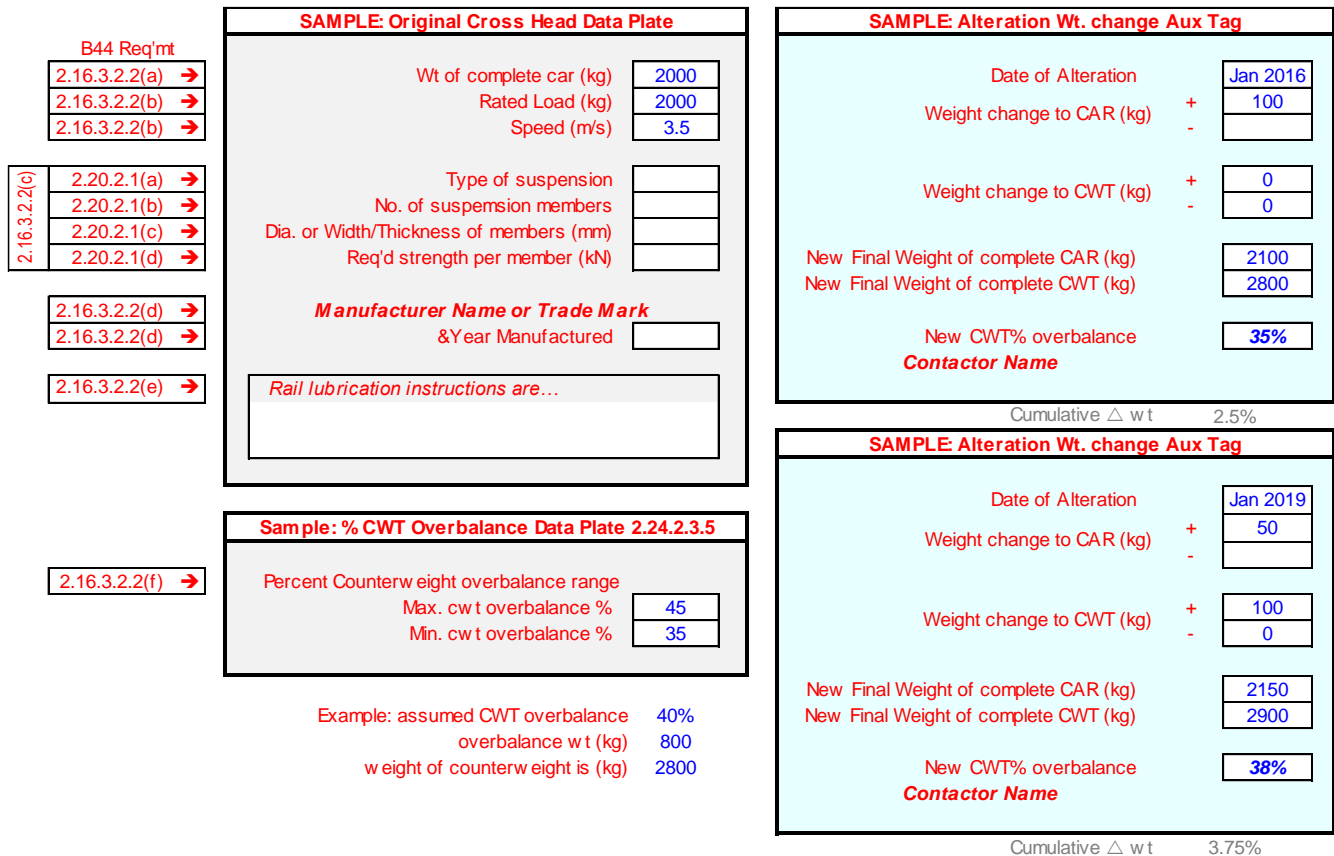
Where an alteration results in

- a cumulative decrease in the deadweight of the car that is sufficient to decrease the sum of the deadweight and rated load, as originally installed by less than 5%, or
- a cumulative increase to the deadweight of the car that is sufficient to decrease the sum of the deadweight and rated load, as originally installed, by less than 5% or less than 115kg (255 Lbs.) including all weight changes since the car was originally installed,

the following requirements shall apply, except (a) does not apply if the cumulative increase is 11kg (25 Lbs.) or less;

- (a) cars and counterweights shall be weighed prior to the alteration to establish starting weights, or
- (b) materials added or removed during the alteration shall be weighed in or out, and the car shall be weighed after the alteration to establish final weight changes
- (c) add on weight (or decreased weight) shall be recorded on an auxiliary data tag and posted on the crosshead or for cars without crossheads in a conspicuous location on the car top or adjacent to the original data
- (d) an auxiliary data tag shall as a minimum contain [See Fig 1 as reference];
 - (1) the date of the alteration,
 - (2) the weight added or removed from the car
 - (3) the weight added or removed from the counterweight
 - (4) the name of the alteration contractor
 - (5) the new final car weight following the alteration
 - (6) the new percent counterweight overbalance value
- (e) where glass, mirror, or overhead finishes are added to the car interior, a no-load governor tripping speed safety tests or a no-load rated speed buffer test shall be performed to ensure the security of finishes prior to the devices return to service (Minor A and Minor B alterations ONLY). For hydraulic elevators and emergency stop from rated speed in the up direction shall be performed.

Figure 1



[8.7.2.15]★2 Cumulative Increase >115kg to <5% (171/02)

Where an alteration results in a cumulative increase to the deadweight that is sufficient to decrease the sum of the deadweight and rated load, as originally installed by more than 115 kg (255 Lbs.) but less than 5% including all weight changes since the car was originally installed the following requirements shall apply;

- (a) additional requirements [8.7.2.15]★1(a) through ★1(e) above;
- (b) an engineering assessment shall confirm compliance of any components affected by the weight change, including but not limited to;
 - (1) machines
 - (2) car and counterweight frames
 - (3) buffers
 - (4) traction and overbalance
 - (5) ropes
 - (6) plungers & working pressures
 - (7) safeties

(h) In addition to section 8.7.2.16.3 Capacity and Loading, Carrying of Passengers on Freight Elevators, alterations shall comply with the following:

The elevator shall also conform to CAD 3.12 or extent pit permits and signage requirements in 2.16.5.

(i) In addition to section 8.7.2.25 Driving Machine and Sheaves, alterations shall comply with the following:

In addition to section 8.7.2.25.1 (a) Alterations to Driving Machines and Sheaves, the requirements apply where a driving machine is replaced by a machine that is not approved by the original equipment elevator manufacturer as being equivalent to the original make and model, or installed as part of an alteration.

[8.7.2.25]★1 Replacement of worm and/or gear (specify make)

Where the driving machine worm or gear is replaced, the replaced components shall conform to the applicable requirements of 2.24.

Note: Refer to [8.7.2.7]★1 above for the addition of machine guarding.

(j) In addition to section 8.7.2.27 Operating Devices and Control Equipment, alterations shall comply with the following:

In addition to section 8.7.2.27.1 (a) Inspection Operation and Inspection Operation with Open Door Circuits reference of 3.8.3 is to the CAD and the additional requirement [8.7.2.15]★1 or ★2 above applies.

In addition to section 8.7.2.27.4 Controllers, subsection (c)(8) shall also apply if the information was provided by a previous alteration. Where these were not previously required/provided, the installation shall be provided with Phase 1 Manual Recall, and any existing level of recall activation shall not be diminished.

In addition to section 8.7.2.27.5 Change in Type of Motion Control, subsection (m)(2) shall also apply if the information was provided by a previous alteration. Where these were not previously required/provided, the installation shall be provided with Phase 1 Manual Recall, and any existing level of recall activation shall not be diminished.

[8.7.2.27]★1 Relocation of Elevator Controller

Where an elevator controller is relocated and requires disconnection and reconnection of field wiring, requirement 2.8.2 applies. The installation shall be tested to verify functionality of all circuits impacted by the relocation.

[8.7.2.27] ★2 Addition of Wander Patient Feature - Change in Operation Control

Where a Patient Wandering feature is added, doors shall close per 2.13.5.3 and the activation of phase 1 recall shall not be prevented per 2.27.3.1.6(i).

[8.7.2.27] ★3 Addition of Restricted Access - Security / Floor Lock Out

Where security / floor lockout systems are added the following shall apply:

- (a) egress floor shall not be restricted when on FEO,
- (b) door open buttons shall remain operative,
- (c) requirement 2.11.6.2, and
- (d) travel to all serviced landing shall be possible per 2.27.3.3.1(i).

[8.7.2.27] ★4 Addition of Destination Dispatch

Where destination dispatch is added to an automatic operation control the following shall apply:

- (a) 8.7.2.8
- (b) changes to FEO shall apply to either 8.7.2.28 or to the code applicable at the time of the original installation or subsequent FEO related alteration.

(k) In addition to section 8.7.2.28 Operating Devices and Control Equipment, alterations shall comply with the following:

[8.7.2.28] ★1 Emerg. Recall Upgrade - Manual to Automatic matching code at time of install (175/02)

Where the method of recall is being upgraded from manual to automatic recall, FEO features are permitted to operate as required at the time of the original FEO installation. Where the main recall level is not sprinklered, alternate floor recall shall be provided.

[8.7.2.28] ★2 Emerg. Recall Upgrade to comply with a Fire Code Retrofit Order (60/88) (105/93) (219/07)

Where a fire code retrofit was required but not provided, and conformance to provide FEO is now being sought, the FEO features shall be as required by CAD 3.20.

1.2 Hydraulic Elevators

(a) In addition to section 8.7.3 Alteration to Hydraulic Elevators, alterations shall comply with the following:

[8.7.3] ★ 1 Alteration Hydraulic to Electric Elevator [CAD Amendment-261-13-r1]

Where a hydraulic elevator that operated in an existing hoistway is being replaced with an electric elevator, the installation shall conform to Part 2, Electric Elevators, except for the following:

- (a) Existing building conditions not in conformance to the latest code maybe permitted to be retained
- (b) Apron plates must conform to 2.15.9 or where a 1220 mm (48 in.) apron is not possible due to existing pit depth, an engineered solution providing 1220 mm (48 in.) of guarding shall be permitted.

Note: Existing building conditions may include items such as pit depth or no pit drains. Items not in conformance with Part 2 shall be noted in the design submission.

(b) In addition to section 8.7.3.7 Machine Rooms, Machinery Spaces, Control Spaces, and Control Rooms, alterations shall comply with the following:

The addition of Elevator Equipment Guarding shall conform to [8.7.2.7] ★1 above.

(c) In addition to section 8.7.3.10 Entrances and Hoistway Openings, alterations shall comply with the following:

Removing Service to a Floor shall conform to [8.7.2.10] ★1 above

Addition of Hoistway Door Safety Retainers shall conform to [8.7.2.10] ★2 above.

(d) In addition to section 8.7.3.12 Power Operation of Hoistway Doors, alterations shall comply with the following:

Replacement of Door Operator shall conform to [8.7.2.12] ★1 above.

(e) In addition to section 8.7.3.13 Car Enclosures and Door Reopening Devices, alterations shall comply with the following:

Replacement of a door reopening device shall conform to [8.7.2.13] ★1 above.

In addition to section 8.7.3.14 Car Enclosures, Car Doors and Gates, and Car Illumination, alterations shall refer to the addition to section:

[8.7.2.14] ★1 for Installation / Replacement of Car Operating Panel (COP);

[8.7.2.14] ★2 for Installation of Video/Security Cameras and Monitors;

[8.7.2.14] ★3 for Installation of Touchless or Handsfree Call Activation;

[8.7.2.14] ★4 for Car Ventilation with Air Purification;

[8.7.2.14] ★5 for Partitions in Elevator Cars for High-Risk Occupants;

[8.7.2.14] ★6 for Installation of Interior Vinyl Graphics – Car Interiors; and

[8.7.2.14] ★7 for Installation of Other Equipment.

(f) In addition to section 8.7.3.21 Increase in Deadweight of Car, alterations shall comply with the following:

[8.7.3.21] ★0 Missing Crosshead Data Tag (Tag Required)

Refer to [8.7.2.15] ★0 if Increase or Decrease in Deadweight of Car and Missing Crosshead Data Tag .

[8.7.3.21] ★1 Cumulative Weight Increase <115kg & <5%

Refer to [8.7.2.15] ★1 if cumulative increase in the deadweight of the car (Less than 115 kg and Less than 5%).

[8.7.3.21] ★2 Cumulative Weight Increase >115kg & <5%

Refer to [8.7.2.15] ★2 if cumulative increase in the deadweight of the car (greater than 115 kg and Less than 5%).

(g) In addition to section 8.7.3.23. 7 Hydraulic Equipment, Plunger Gripper, alterations shall comply with the following:

[8.7.3.23.7] ★1 Plunger Gripper.

Where the alteration consists of the removal of a plunger gripper, the following conditions shall be met:

- (a) 8.7.1.2 the level of safety shall not be diminished
- (b) the cylinder shall conform to 3.18.3
- (c) an overspeed valve shall be installed in conformance with the requirements of 3.19.4.7
- (d) bottom car runby shall conform to 3.4.2.1

(h) In addition to section 8.7.3.29 Tanks, alterations shall comply with the following:

[8.7.3.29]★1 Addition of Oil Cooler

Where an oil cooler is installed or altered, the following requirements apply:

- (a) 8.7.3.8
- (b) 2.7.2 for the installed equipment
- (c) 3.10 for the installed equipment

(i) In addition to section 8.7.3.31 Operating Devices and Control Equipment, alterations shall comply with the following:

Subsection 8.7.3.31.5(a)(7) Controllers should also apply if the information was provided by a previous alteration. Where these were not previously required/provided, the installation shall be provided with Phase 1 Manual Recall, and any existing level of recall activation shall not be diminished.

Subsection 8.7.3.31.6(l)(2) Change in Type of Motion Control. should also apply if the information was provided by a previous alteration. Where these were not previously required/provided, the installation shall be provided with Phase 1 Manual Recall, and any existing level of recall activation shall not be diminished.

[8.7.3.31]★1 Alteration / Addition of any type of inspection operation

Where there is an alteration to or addition of any type of inspection operation the alteration shall conform to 8.7.2.27.1(a) and 3.26.2

[8.7.3.31]★2 Alteration / Addition of Door By-Pass Switches

Where there is an alteration to or addition of car door bypass or hoistway door bypass switches, the alteration shall conform to 8.7.2.27.1(b)

[8.7.3.31]★3 Addition of Soft Start

Where there is an addition of a soft start feature the following shall apply;

- (a) 2.26.4.1 and 2.26.4.2 for the new equipment,
- (b) 3.26.5

[8.7.3.31]★4 Addition of Power Efficiency Devices

Where there is an addition of power efficiency increasing devices, the following shall apply;

- (a) 2.26.4.1 and 2.26.4.2 for the new equipment,
- (b) B44.1 certification for the new equipment.

[8.7.3.31]★5 Relocation of Elevator Controller

Where an elevator controller is relocated and requires disconnection and reconnection of field wiring, requirement 2.8.2 applies. The installation shall be tested to verify functionality of all circuits impacted by the relocation.

[8.7.3.31]★6 Addition of Patient Wandering Feature

Where a Patient Wandering feature is added, doors shall close per 2.13.5.3 and the activation of phase 1 recall shall not be prevented per 2.27.3.1.6(l).

[8.7.3.31]★7 Addition of Restricted Access – Security / Floor Lock Out

Where security / floor lockout systems are added the following shall apply:

- (a) egress floor shall not be restricted when on FEO,
- (b) door open buttons shall remain operative,
- (c) requirement 2.11.6.2
- (d) travel to all serviced landing shall be possible per 2.27.3.3.1(i).

[8.7.3.31]★8 Addition of Destination Dispatch

Where destination dispatch is added to an automatic operation control the following shall apply:

- (a) 8.7.2.8
- (b) changes to FEO shall apply to either 8.7.2.28 or to the code applicable at the time of the original installation or subsequent FEO related alteration.

[8.7.3.31]★9 Emergency Recall Update (175/02)

Where the method of recall is being upgraded from manual to automatic recall, FEO features are permitted to operate as required at the time of the original FEO installation. Where the main recall level is not sprinklered, alternate floor recall shall be provided.

[8.7.3.31]★10 Emergency Recall Update (60/88) (105/93) (219/07)

Where a fire code retrofit was required but not provided, and conformance to provide FEO is now being sought, the FEO features shall be as required by CAD **3.20**.

1.3 Limited-Use/Limited-Application Elevators

(a) In addition to section 8.7.5.2 Limited-Use/Limited-Application Elevators, alterations shall comply with the following:

[8.7.5.2]★1 Alterations to Electric Limited-Use/Limited-Application Elevators

Alterations to Limited-Use/Limited-Application Elevators, shall conform to 8.7.2 and the requirements of Part 2 except as modified in section 5.2.

[8.7.5.2]★2 Alterations to Hydraulic Limited-Use/Limited-Application Elevators

Alterations to Limited-Use/Limited-Application Elevators, shall conform to the 8.7.3 and the requirements of Part 3 except as modified in section 5.2.

1.4 Escalators and Moving Walks

(a) In addition to section 8.7.6. Alteration to Escalators and Moving Walks, alterations shall comply to the following:

ESCALATORS

In addition to section 8.7.6.1.2(b) Repositioning of an Escalator, alterations shall comply with the following:

Where an escalator is repositioned within the same building, CAD requirement 3.18 applies and the installation shall conform to the following;

- (1) requirement 6.1.3.3.11, 6.1.3.3.12, 6.1.3.3.13
- (2) requirement 6.1.3.4.3
- (3) requirement 6.1.3.6.3, 6.1.3.6.4
- (4) requirement 6.1.3.12
- (5) requirement 6.1.3.13
- (6) requirement 6.1.6.9
- (7) requirement 6.1.7.4.1 and
- (8) requirement 8.7.6.1.3

[8.7.6.1]★1 Addition of Handrail Advertising

The addition of handrail advertising is not permitted per 6.1.6.9.2, unless otherwise permitted by a variance request.

[8.7.6.1]★2 Addition of Handrail Sanitation Devices

The addition of handrail sanitation devices shall be permitted if they are internally mounted, and device(s) satisfies electrical safety requirements and are listed/certified and labelled/marked as appropriate.

Where UV exposure impacts handrail integrity, this shall be included in the maintenance control program with appropriate checkout procedures included in the On-Site documentation. (8.6.1.2.2(b)). The alteration checklist requires compliance / assessment of;

- (a) 2.26.4.2
- (b) 8.7.6.1 General requirements or 8.7.6.2 for moving walks
- (c) 8.7.6.1.14 Lighting, access, and electrical work, or 8.7.6.2.14 for moving walks

[8.7.6.1]★2 Removal of Step Demarcation Lights (226/07)

The removal of step demarcation lights, shall be permitted if the device complies with the following:

- (a) requirement 6.1.3.3.5,
- (b) requirements 6.1.3.5.4, 6.1.3.5.5, 6.1.3.5.6, and
- (c) requirement 6.1.3.6.2.

[8.7.6.1]★3 Controller Replaced (226/07)

Where a controller is replaced it shall conform to 8.7.6.1.16.

[8.7.6.1]★4 Relocation of Controller (226/07)

Where an escalator controller is relocated and requires disconnection and reconnection of field wiring, requirement 2.8.2 applies. The installation shall be tested to verify functionality of all circuits impacted by the relocation.

[8.7.6.1]★5 Addition of Soft Start (226/07)

Where there is an addition of a soft start feature the following shall apply;

- (a) for control systems built to B44-00 and later, 6.1.7.4, 6.1.6.10.1, 6.1.6.10.2, 6.1.6.10.3
- (b) for control systems built prior to B44-00 6.1.7.4.

[8.7.6.1]★6 Power Efficiency Devices

Where there is an addition of power efficiency increasing devices, the following shall apply;

- (a) 2.26.4.1 and 2.26.4.2 for the new equipment,
- (b) B44.1 certification for the new equipment.

MOVING WALKS

[8.7.6.2]★1 Addition of Handrail Advertising

The addition of handrail advertising shall conform to [8.7.6.1]★1

[8.7.6.2]★2 Addition of Handrail Sanitation Devices

The addition of handrail sanitation devices shall conform to [8.7.6.1]★2

[8.7.6.2]★3 Controller Replaced (226/07)

Where a controller is replaced it shall conform to 8.7.6.1.16.

[8.7.6.2]★4 Relocation of Controller (226/07)

Where an escalator controller is relocated and requires disconnection and reconnection of field wiring, requirement 2.8.2 applies. The installation shall be tested to verify functionality of all circuits impacted by the relocation.

[8.7.6.2]★5 Addition of Soft Start (226/07)

Where there is an addition of a soft start feature the following shall apply:

- (a) for control systems built to B44-00 and later, 6.1.7.4, 6.1.6.10.1, 6.1.6.10.2, 6.1.6.10.3
- (b) for control systems built prior to B44-00 6.1.7.4.

[8.7.6.2]★6 Power Efficiency Devices

Where there is an addition of power efficiency increasing devices, the following shall apply:

- (a) 2.26.4.1 and 2.26.4.2 for the new equipment,
- (b) B44.1 certification for the new equipment.

1.5 Alterations to Dumbwaiters and Material Lifts

(a) In addition to section 8.7.7. Alteration to Dumbwaiters and Material Lifts with Automatic Transfer Devices , alterations shall comply with the following:

In addition to section 8.7.7.1.2 Increase in Rated Load, alterations shall comply with requirements 7.4, 7.5 and 7.6 as applicable to the device type.

[8.7.7] ★1 Alteration to Freight Platform Lifts Type A

Where an alteration is made to a Type A freight platform lift, the alteration shall conform to the applicable requirements of 7.4, 7.5 and 7.6 for Type B material lifts, except any reference to in-car operating devices and riders shall not apply.

[8.7.7] ★2 Alteration to Freight Platform Lift Type B

Where an alteration is made to a Type B freight platform lift, the alteration shall conform to the applicable requirements of 7.4, 7.5 and 7.6 for Type B material lifts.

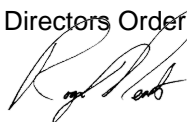
In addition to section 8.7.7.3.2, alterations shall comply with the following:

Include a circumstance when an automatic transfer device is removed from a dumbwaiter;

Shall refer for conformance with requirements 7.1 to 7.3 for dumbwaiters and requirements 7.4 to 7.6 for material lifts without transfer devices; and

Shall be submitted as a new installation.

This Directors Order becomes effective August 1, 2022.



Roger Neate.

Director, Ontario Regulation 209/01 (Elevating Devices), appointed under the *Technical Standards & Safety Act, 2000*

| 0 | 1 | 2a | 2b | 2c | 3 | 4 | 5 | 6 |
|-------------------------------|-------------------------|--|----|----|-----------------------------|----------|------------------|----------------------|
| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.1.2 | Alterations not specifically covered in 8.7 1.2 Level of safety shall not be diminished | | | Contact Eng'g | | | |
| | 8.7.1.4 | Welding 8.8 Welding 8.7.1.5 Design / Weld Engineer | | | | | | |
| | 8.7.1.7 | Repairs and Replacements 8.6.2 for repairs 8.6.3 for replacements | | | | | | |
| | 8.7.1.8 | Code Data Plate 8.6.1.5 code data plate code in effect at installation code in effect at alteration 8.7 applicable alteration scopes | | | | | | |
| | 8.7.1.9 | Alterations Involving SIL Rated Device(s) identify scope and impact of proposed SIL alteration | | | Minor A | Minor A | | |
| | 8.7.1.10 | Executable Software Verification and Witness Test > the following executable software for functions listed has changed (a) working areas in the pit (b) hoistway access switches (c) power operation of h/w and car doors (d) protection against traction loss (e) broken member suspension (f) suspension-member residual strength (g) normal terminal stopping means (h) emergency terminal stopping means (i) operating devices and control equipment (j) emergency communication (k) emergency or standby power (l) FEO: automatic elevators (2.27.3 though 2.27.6) (m) occupant evacuation operation (n) emergency operation and signal devices > new USI logged in the on-site documentation | | | Minor A | Minor A | | |
| | 8.7.2 | Alterations to Electric Elevators | | | | | | |
| | 8.7.2.1 | Hoistway Enclosures | | | Major | Major | | |
| | 8.7.2.1.1 | Hoistway Enclosure Walls 2.1.1 Hoistway Enclosures 2.1.5 Windows and Skylights 2.1.6 Projections, Recesses, and Setbacks in H/W 2.5. Horizontal Car and Counterweight Clearances 2.7.3.4.6 Access Doors and Openings ★ 2.7.3.4.7 Access Doors and Openings 2.8. Equipment in Hoistways, Machine or Control / Rooms or Spaces 8.7.2.10 Entrances and Hoistway Openings (if change includes an entrance) 2.11.1 Entrances and Emergency Doors Required (if blind H/W) | | | Major | Major | | |
| | 8.7.2.1.2 | Addition of Elevator to Existing Hoistway B44-2019 New Installation 2.5. Horizontal Car and Counterweight Clearances | | | - | New | | |
| | 8.7.2.1.3 | Construction at Top of Hoistway 2.1.2.1 Construction at Top of the Hoistway 2.1.3 Floor Over Hoistways 8.7.2.4 Vertical Car & Cwt Clearances & Runbys | | | Major | Major | | |
| | 8.7.2.1.4 | Construction at Bottom of Hoistway 2.1.2.2 Construction at Bottom of the Hoistway 2.1.2.3 Strength of Pit Floor 2.2. Pits 8.7.2.4 Vertical Car & Cwt Clearances & Runbys | | | Major | Major | | |
| | 8.7.2.1.5 | Control of Smoke and Hot Gases 2.1.4 Control of Smoke and Hot Gases | | | Major | Major | | |
| | 8.7.2.2 | Pits see other alterations below for non Major Alterations For inspection and test requirements, see 8.10.2.3.2(x) | | | Major | - | | |

| 0 | 1 | 2a | 2b | 2c | 3 | 4 | 5 | 6 |
|-------------------------------|-------------------------|---|---|----|-----------------------------|----------|------------------|----------------------|
| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.2.1.2 | Alteration to Pits | 2.2. Pits | | | | | |
| | | | 2.1.2.3 Strength of Pit Floor | | | | | |
| | | | 8.7.2.4 Vertical Car & Cwt Clearances & Runbys | | | | | |
| | 8.7.2.1.2 | Pit Drains & Sumps | 2.2.2. Pit Drains | | Minor B | Minor B | | |
| | 8.7.2.1.2 | Pit Guards | 2.2.3. Guards Between Adjacent Pits | | Minor B | Minor A | | |
| | 8.7.2.1.2 | Pit Access | 2.2.4. Pit Access | | Minor B | Minor A | | |
| | 8.7.2.1.2 | Pit Illumination | 2.2.5. Illumination of Pits | | Minor B | Minor B | | |
| | 8.7.2.1.2 | Pit Stop Switches | 2.2.6. Stop Switches | | Minor B | Minor A | | |
| | 8.7.2.1.2 | Pit Depth | 2.2.7. Minimum Pit Depths Required | | Minor B | Minor A | | |
| | 8.7.2.1.2 | Access to Underside of Car | 2.2.8. Access to Underside of Car | | Minor B | Minor A | | |
| | 8.7.2.2.2 | Addition of surface-mounted sump pump | 2.4.1. bottom clearances maintained not restrict pit access | | - | Minor B | | |
| | | | 2.2.2.4 plumbing code, ventilation of gases | | | | | |
| | | | 2.2.2.5 If FEO elevator, 11.4 m ³ /h (3000 gal/h) single or multiple h/w | | | | | |
| | 8.7.2.3 | Location and Guarding of Counterweights | | | Major | Major | | |
| | | | For inspection and test requirements, see 8.10.2.3.2(b) | | | | | |
| | | | 2.3. Location and Guarding of Counterweights | | | | | |
| | | | 2.5.1.2 Between Car & Cwt and Cwt Guard | | | | | |
| | | | 2.6. Protection of Space below H/W | | | | | |
| | 8.7.2.4 | Vertical Car and Counterweight Clearances and Runbys (no reduction allowed) | | | Major | - | | |
| | | | For inspection and test requirements, see 8.10.2.3.2(y) | | | | | |
| | | | 2.4. Vertical Clearances & Runbys for Cars & Cwts | | | | | |
| | | | 8.7.2.17.1 Increase or Decrease in Rise | | | | | |
| | | | 8.7.2.17.2 Increase in Rated Speed | | | | | |
| | | | 8.7.2.25.2 Change in Location of Driving Machine | | | | | |
| | 8.7.2.5 | Horizontal Car and Counterweight Clearances (no reduction allowed) | | | Major | - | | |
| | | | For inspection and test requirements, see 8.10.2.3.2(z) | | | | | |
| | | | 2.5. Horizontal Car and Counterweight Clearances | | | | | |
| | | | 8.7.2.17.2 Increase in Rated Speed | | | | | |
| | 8.7.2.6 | Protection of Spaces Below Hoistways | | | Minor B | Major | | |
| | | | For inspection and test requirements, see 8.10.2.3.2(aa) | | | | | |
| | | | 2.6. Protection of Space below H/W | | | | | |
| | 8.7.2.7 | Machinery Spaces, Machine Rooms Control Spaces and Control Rooms | | | | | ↓ See Below ↓ | |
| | | | For inspection and test requirements, see 8.10.2.3.2(bb) | | | | | |
| | 8.7.2.7.1 | Enclosures - other than specifics of 8.7.2.7.2 to 8.7.2.7.7 | | | | | | |
| | | | 2.7. (& 3.7.) New - Machinery Spaces, Machine Rooms Control Spaces & Control Rooms | | - | Major | | |
| | | | 2.7. (& 3.7.) Altered- Machinery Spaces, Machine Rooms Control Spaces & Control Rooms | | Minor A | - | | |
| | | | OESC Electrical Equipment Clearances | | Minor B | - | | |
| | 8.7.2.7.2 | Means of Access | | | Minor B | - | | |
| | | | 2.7.3.1 General Requirements | | | | | |
| | | | 2.7.3.2 Access Across Roofs | | | | | |
| | | | 2.7.3.3 Means of Access | | | | | |
| | 8.7.2.7.3 | Access Doors and Openings | | | Minor B | Minor B | | mrr |
| | | | 2.7.3.4 Access Doors and Openings | | | | | |
| | | | 2.7.3.5 Stop Switch for Machinery Space or Control Spaces | | | | | |
| | 8.7.2.7.4 | Headroom (no reduction) | | | Minor B | Minor B | | |
| | | | 2.7.4 Headroom in Machine Rooms/Spaces, Control Room/Spaces | | | | | |
| | 8.7.2.7.5 | Windows and Skylights | | | Minor B | Minor B | | |
| | | | 2.1.5 Windows and Skylights | | | | | |
| | 8.7.2.7.6 | Lighting (no reduction) | | | Minor B | Minor A | | |
| | | | 2.7.9.1 Lighting | | | | | |
| | 8.7.2.7.7 | Ventilation | | | Minor B | Minor B | | |
| | | | 2.7.9.2 Temperature & Humidity | | | | | |

| 0 | 1 | 2a | 2b | 2c | 3 | 4 | 5 | 6 |
|-------------------------------|-------------------------|---|-----------|---|-----------------------------|----------|------------------|----------------------|
| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | [8.7.2.7]★1 | Addition of Elevator Equipment Guarding | | | Minor A | Minor A | mrr | mrr |
| | | (a) | 2.7.2 | Maintenance Path and Clearance | | | | |
| | | (b) | 2.7.3.4.2 | Size of doors and openings in cage style enclosures (750x2030) | | | | |
| | | (c) | 2.10.1 | Guarding of Equipment | | | | |
| | | (d) | | openable/removable only with tools | | | | |
| | | (e) | | operating/work instruction for accessing equipment | | | | |
| | | (f) | | clearances in front of electrical control equipment (1000mm) | | | | |
| | | (g) | | or clearance required at time of original control installation | | | | |
| | | (g) | | access in front of / space to operate main disconnect (1000mm), | | | | |
| | | (g) | | or (750mm) if permitted at time of original installation | | | | |
| | | (h) | | Installation by registered contractor | | | | |
| | | (i) | | designed to be handled by one person | | | | |
| | 8.7.2.8 | Electrical Equipment, Wiring, Pipes, and Ducts in H/W's & M/C Rooms | | | Minor B | Minor B | mrr | Minor B |
| | | For inspection and test requirements, see 8.10.2.3.2(cc) | | | | | | |
| | | Installation of New (electrical equipment, wiring, raceways, cables, pipes, ducts) | | | - | Minor B | | |
| | | also installation of Monitoring Equipment, HVAC | | | | | | |
| | | 2.8. | | Equipment in Hoistways, Machine or Control / Rooms or Spaces | | | | |
| | | | | CSA Labeling (or equivalent) | | | | |
| | | | | OESC, CSA C22.1 as required | | | | |
| | | Alteration of Existing (electrical equipment, wiring, raceways, cables, pipes, ducts...) | | | Minor B | - | | |
| | | 2.8. | | Equipment in Hoistways, Machine or Control / Rooms or Spaces | | | | |
| | [8.7.2.8]★1 | Change in Drive (Power conversion equipment) | | | | - | mrr | Minor B |
| | | 2.8. | | Equipment in Hoistways, Machine or Control / Rooms or Spaces | | | | |
| | | | | HP matches motor requirement | | | | |
| | | | | No speed change | | | | |
| | | | | drive fits in existing cabinet | | | | |
| | | | | drive cabinet is modified - requires field approval SPE-1000 | | | | |
| | | | | drive is certified | | | | |
| | | | | Test: limits of traction | | | | |
| | | | | if Regen feature included but not previously provided (Minor A) | | | | Minor A |
| | 8.7.2.9 | Machinery and Sheave Beams, Supports, and Foundations | | | Major | Major | | |
| | | New/Relocated Machinery & Sheave Beams, Supports, Foundation | | | | | | |
| | | 2.9. | | Machinery & Sheave Beams, Supports, Foundation | | | | |
| | | | | adequacy of building structure verified by P.Eng. | | | | |
| | | Building reactions increased by more than 5% | | | | | | |
| | | 2.9. | | Machinery & Sheave Beams, Supports, Foundation | | | | |
| | | | | adequacy of building structure verified by P.Eng. | | | | |
| | 8.7.2.10 | Entrances and Hoistway Openings | | | Major | Major | | see below |
| | 8.7.2.10.1 | General Requirements | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.2.3.2(o) | | | | | | |
| | 8.7.2.10.1(a) | General Requirements - All New Entrances | | | Major | - | Major | Major |
| | | 2.11. | | Protection of H/W Openings | | | | |
| | | 2.12. | | H/W-Door Locking Devices, Elec. Contacts, H/W Access | | | | |
| | | 2.13. | | Power Operation of Hoistway Doors and Car Doors | | | | |
| | | | | 2.13.5.3 Detection of Approaching Objects | | | | |
| | | 2.14.5.7 | | Restricted Opening of Car Doors (Interlock or Restrictor) | | | | |
| | | 2.29.2 | | Identification of Floors | | | | |
| | 8.7.2.10.1(b) | General Requirements - New Entrances w/Existing Entrances | | | - | Major | | |
| | | 2.11.2 | | Types of Entrances | | | | |
| | | 2.11.3 | | Closing of Hoistway Doors | | | | |
| | | 2.11.4 | | Location of Horizontally Sliding or Swinging H/W Doors | | | | |
| | | 2.11.5 | | Projection of Entrances & Equip. Beyond Land'g Sills | | | | |
| | | 2.11.6 | | Opening of Hoistway Doors | | | | |
| | | 2.11.7 | | Glass in Hoistway Doors | | | | |
| | | 2.11.8 | | Weights for Closing or Balancing Doors | | | | |
| | | 8.7.2.10.5 | | Marking of Entrance Assemblies | | | | |
| | | Entire installation to meet: | | | | | | |
| | | 2.11.6 | | Opening of Hoistway Doors | | | | |
| | | 2.12. | | H/W-Door Locking Devices, Elec. Contacts, H/W Access | | | | |
| | | 2.13. | | Power Operation of Hoistway Doors and Car Doors | | | | |
| | | | | 2.13.5.3 Detection of Approaching Objects | | | | |
| | | 2.14.5.7 | | Restricted Opening of Car Doors (Interlock or Restrictor) | | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.2.10.1(c) | 2.29.2 | Identification of Floors | | Major | - | | |
| | | General Requirements - Alteration to H/W Entrance | | | | | | |
| | | 2.11.3 | Closing of Hoistway Doors | | | | | |
| | | 2.11.5 | Projection of Entrances & Equip. Beyond Land'g Sills | | | | | |
| | | 2.11.7 | Glass in Hoistway Doors | | | | | |
| | | 2.11.8 | Weights for Closing or Balancing Doors | | | | | |
| | | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | | Entire installation to meet: | | | | | | |
| | | 2.12. | H/W-Door Locking Devices, Elec. Contacts, H/W Access | | | | | |
| | | 2.13. | Power Operation of Hoistway Doors and Car Doors | | | | | |
| | | 2.13.5.3 Detection of Approaching Objects | | | | | | |
| | | 2.14.5.7 | Restricted Opening of Car Doors (Interlock or Restrictor) | | | | | |
| | | 2.29.2 | Identification of Floors | | | | | |
| | 8.7.2.10.1(d) | General Requirements - Emergency Doors (added or altered) | | | Major | Major | | |
| | | 2.11.1 | Entrances and Emergency Doors Required | | | | | |
| | | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | 8.7.2.10.1(e) | General Requirements - Access Openings (installed for cleaning) | | | Major | Major | | |
| | | 2.11.1.4 | Access Opening for Cleaning of Car & H/W Enclosure | | | | | |
| | | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | 8.7.2.10.2 | Horizontal Slide-Type Entrances - new entrance and components to meet: | | | Major | Major | | see below |
| | | For inspection and test requirements, see 8.10.2.3.2(o) | | | | | | |
| | | 8.7.2.10.1 | Entrances & H/W Openings - General Req'mts | | | | | Major |
| | | 2.11.11 | Entrances, Horizontal Slide Type | | | | | |
| | | Installed New components to meet: | | | | | | |
| | sills (a) | 2.11.10.1 | Landing-Sill Guards | | Minor B | | | Minor B |
| | | 2.11.11.1 | Landing Sills | | | | | |
| | | 2.11.11.6 | Bottom Guides | | | | | |
| | hanger /track (b) | 2.11.11.2 | Hanger Tracks, and Track Supports | | Minor B | | | Minor B |
| | frame (c) | 2.11.11.3 | Entrance Frames | | Minor A | | | Minor A |
| | | 2.11.11.5.1 | Panel Overlap | | | | | |
| | | 2.11.11.5.2 | Panel Gaps Clearances | | | | | |
| | | 2.11.11.5.3 | Pockets in Strike Jamb | | | | | |
| | | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | hangers (d) | 2.11.11.4 | Hangers | | Minor B | | | Minor B |
| | panels (e) | 2.11.11.5(*) | Panels | | Minor A | | | Minor A |
| | | 2.11.11.6 | Bottom Guides | | | | | |
| | | 2.11.11.7 | Multipanel Entrances | | | | | |
| | | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | retainers (f) | 2.11.11.8 | Hoistway Door Safety Retainers | | Minor B | | | Minor B |
| | 8.7.2.10.3 | Vertical-Slide-Type Entrances - new entrance and components to meet: | | | Major | Major | | see below |
| | | For inspection and test requirements, see 8.10.2.3.2(o) | | | | | | |
| | | 8.7.2.10.1 | Entrances & H/W Openings - General Req'mts | | | | | Major |
| | | 2.11.12 | Entrances, Vertical Slide Type | | | | | |
| | | Installed New components to meet: | | | | | | |
| | sills (a) | 2.11.10.3 | Hinged Hoistway Landing Sills | | Minor B | | | Minor B |
| | | 2.11.12.1 | Landing Sills | | | | | |
| | frames (b) | 2.11.12.2 | Entrances Frames | | Minor B | | | Minor B |
| | | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | rails (c) | 2.11.12.3 | Rails | | mrr | | | mrr |
| | panels (d) | 2.11.12.3 | Rails | | Minor A | | | Minor A |
| | | 2.11.12.4 | Panels | | | | | |
| | | 2.11.12.5 | Guides | | | | | |
| | | 2.11.12.6 | Counterweighting or Counterbalancing | | | | | |
| | | 2.11.12.8 | Pull Straps | | | | | |
| | | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | guides (e) | 2.11.12.5 | Guides | | | | | |
| | sill guard (f) | 2.11.12.7 | Sill Guards | | mrr | | | mrr |
| | straps (g) | 2.11.12.8 | Pull Straps | | | | | |
| | 8.7.2.10.4 | Swing-Type Entrances - new entrance and components to meet: | | | Major | Major | | see below |
| | | For inspection and test requirements, see 8.10.2.3.2(o) | | | | | | |
| | | 8.7.2.10.1 | Entrances & H/W Openings - General Req'mts | | | | | Major |

| 0 | 1 | 2a | 2b | 2c | 3 | 4 | 5 | 6 |
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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 2.11.13 | Entrances, Swing Type | Installed New components to meet: | | | | |
| | sills (a) | 2.11.10.1 | Landing-Sill Guards | | Minor B | | Minor B | |
| | | 2.11.10.3 | Hinged Hoistway Landing Sills | | | | | |
| | frames (b) | 2.11.13.1 | Landing Sills | | Minor B | | Minor B | |
| | | 2.11.13.2 | Entrance Frames | | | | | |
| | | 2.11.13.4 | Hinges | | | | | |
| | panels (c) | 8.7.2.10.5 | Marking of Entrance Assemblies | | Minor B | | Minor B | |
| | | 2.11.13.3 | Panels | | | | | |
| | | 2.11.13.4 | Hinges | | | | | |
| | | 2.11.13.5 | Marking | | | | | |
| | hinges (d) | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | | 2.11.13.4 | Hinges | | mrr | | mrr | |
| | 8.7.2.10.5 | Marking of Entrance Assemblies (Alteration to an Entrance or Door Panel) | | | Major | Major | | |
| | | Fire Protection Rating not less than existing entrance | | | | | | |
| | | 8.7.2.10.5(a) labeled per NBCC requirements | | | | | | |
| | [8.7.2.10] ★1 | ★ Removing Service To a Floor | | | Minor B | | | |
| | | Bolt entrances shut | | | | | | |
| | | Remove Interlock From Safety String | | | | | | |
| | | Remove COP Floor Button | | | | | | |
| | | 2.11.6.2 | Cannot Lock Out Top/Btm, Designated/Alternate, All Landing in Phase II | | | | | |
| | | 2.12.7 | H/W Access Switches - if floor was previously the access location | | | | | |
| | [8.7.2.10] ★2 | ★ Door Safety Retainers | | | Minor B | Minor A | mrr | Minor B |
| | | 2.11.11.8 | Hoistway Door Safety Retainers | | | | | |
| | 8.7.2.11 | Hoistway Door-Locking Devices, Access Switches & Parking Devices | | | ↓ See Below ↓ | | | |
| | | For inspection and test requirements, see 8.10.2.3.2(dd) | | | | | | |
| | 8.7.2.11.1 | Interlocks | | | - | Major | mrr | Minor B |
| | | 2.12.1 | General | | | | | |
| | | 2.12.2 | Interlocks | | | | | |
| | | 2.12.4 | Listing/Certification Locking Devices | | | | | |
| | | 2.12.6 | Hoistway Door Unlocking Devices (n/a for column 5,6) | | | | n/a | |
| | | 2.12.7 | Hoistway Access Switches (n/a for column 5,6) | | | | n/a | |
| | | 2.14.5.7 | Restricted Opening of Car Doors (Interlock or Restrictor) | | | | | |
| | | 2.24.8.3 | Driving-Machine Brake | | | | | |
| | 8.7.2.11.2 | Mechanical Locks and Electric Contacts | | | - | Major | mrr | Minor B |
| | | 2.12.1 | General | | | | | |
| | | 2.12.3 | H/W Door Combination Mechanical Locks & Contacts | | | | | |
| | | 2.12.4 | Listing/Certification Locking Devices | | | | | |
| | | 2.12.6 | Hoistway Door Unlocking Devices | | | | | |
| | | 2.24.8 | Braking System and Driving-Machine Brake | | | | | |
| | 8.7.2.11.3 | Parking Devices | | | Minor A | Minor A | | |
| | | 8.7.2.11.3 | requirements specified | | | | | |
| | 8.7.2.11.4 | Access Switches and Unlocking Devices | | | | | | |
| | 8.7.2.11.4 (a) | Addition of Unlocking Devices | | | - | Minor B | mrr | |
| | | 2.12.6 | Hoistway Door Unlocking Devices | | | | | |
| | | 2.24.8.3 | Driving-Machine Brake | | | | | |
| | 8.7.2.11.4 (b) | Addition of Access Switches | | | - | Minor A | mrr | |
| | | 2.12.7 | Hoistway Access Switches | | | | | |
| | | 2.24.8 | Braking System and Driving-Machine Brake | | | | | |
| | | 2.26.1.4 | Inspection Operation | | | | | |
| | 8.7.2.11.5 | Restricted Opening of H/W or Car Doors of Passenger Elevators (Restrictors) (Altered or Installed) | | | Minor B | see below | mrr | Minor B |
| | | 2.14.5.7 | Restricted Opening of Car Doors (Interlock or Restrictor) | | | | | |
| | | 2.14.5.7(a) | Interlock | | | Minor A | | |
| | | | provide schematic | | | | | |
| | | | OR | | | | | |
| | | 2.14.5.7(b) | Restrictor (w/electrical means & tied into control system) | | | Minor A | | |
| | | | provide schematic | | | | | |
| | | | OR | | | | | |
| | | 2.14.5.7(b) | Restrictor (Mechanical - not requiring electrical means) | | | Minor B | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: _____ | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.2.12 | Power Operation of Hoistway Doors (Addition / Alteration to Power Open or Close) | | | Minor A | Minor A | | |
| | | For inspection and test requirements, see 8.10.2.3.2(a) 8.7.2.10.1 Entrances & H/W Openings - General Req'mts 8.7.2.10.2 Horizontal Slide-Type Entrances 8.7.2.10.3 Vertical Slide-Type Entrances 8.7.2.10.5 Marking of Entrance Assemblies Installed New or Modified components and wiring to meet: 8.7.2.8 Electrical Equipment, Wiring 2.26.4.2 Listed/Certified and Labeled/Marked B44.1/A17.5 if New | | | | | | |
| | [8.7.2.12]★1 | ★ Replacement of Door Operator | | | - | - | mrr | Minor B |
| | | 2.13.(*) Power Operation of Hoistway Doors and Car Doors <i>except 2.13.5.3 Detection of Approaching Objects if not previously provided</i> <i>except 2.13.5.5 Self Monitoring if not previously provided</i> <i>except 2.13.5.6 Maintenance Testing if not previously provided</i> [8.7.2.15]★1,★2 | | | | | | |
| | 8.7.2.13 | Door Reopening Device (Safety Edge) (Added or Part of an Alteration) | | | Minor B | Minor B | | Minor B |
| | | For inspection and test requirements, see 8.10.2.3.2(ee) 2.13.4 Closing Limitations for Power Operated HS Doors & Gates 2.13.5 Reopening Device for Power Operated Car Doors or Gates <i>2.13.5.3 Detection of Approaching Objects</i> <i>2.13.5.4 Detection of Objects in the Door Path</i> if FEO provided, door opening & closing to PHI & I at time of | | | | | | |
| | | Door Reopening Device (Safety Edge) (Replacement - Mech-Mech or Elec to Elec) | | | | | mrr | mrr |
| | | no change in detection features | | | | | | see 8.6.3.8 |
| | | Door Reopening Device (Safety Edge) (Replacement - Mech-Elec or 2D Elec to 3D Elec) | | | | | - | Minor B |
| | | 2.13.4 Closing Limitations for Power Operated HS Doors & Gates 2.13.5 Reopening Device for Power Operated Car Doors or Gates <i>2.13.5.3 Detection of Approaching Objects</i> if FEO provided, door opening & closing to PHI & I at time of | | | | | | |
| | 8.7.2.14 | Car Enclosures, Car Doors and Gates, and Car Illumination | | | | ↓ See Below ↓ | | |
| | 8.7.2.14.1 | For inspection and test requirements, see 8.10.2.3.2(ff) Installation of New Car Enclosure 2.14.* Car: Enclosure, Doors, Gates, Illumination 2.15. Car Frames & Platforms 2.17 Car and counterweight safeties 8.7.2.15.1 Alterations to Car Frames and Platforms | | | Major | - | | |
| | 8.7.2.14.2 | Alteration to Existing Cars | | | Minor A | Minor A | | |
| | 8.7.2.14.2(a) | Car Enclosure - Securing of Enclosures | | | Minor A | Minor A | | |
| | | 2.14.1.2 Securing of Enclosures | | | | | | |
| | 8.7.2.14.2(b) | Top Emergency Exit (Altered or Added) | | | Minor B | Minor B | | |
| | | 2.14.1.5 Top Emergency Exits | | | | | | |
| | 8.7.2.14.2(c) | Installation of Glass | | | Minor B | Minor B | | |
| | | 2.14.1.8 Glass in Elevator Cars | | | | | | |
| | | 2.14.1.8.1 Enclosures include glass | | | | | | |
| | | 2.14.1.8.2 Lining of Walls or Ceilings include glass | | | | | | mrr |
| | | 2.14.1.8.3 Marking of each Glazing Panel | | | | | | |
| | 8.7.2.14.2(d) | Specific Equipment in Elevator Car | | | Minor B | Minor B | | mrr |
| | | 2.14.1.9 Equipment Inside Cars | | | | | | |
| | | (a) Handrails | | | | | | |
| | | (b) fastening devices for protective linings | | | | | | |
| | | (c) ceiling mounted hooks/tracks | | | | | | |
| | | (d) picture frames display boards, plaques protrusion <38mm | | | | | | |
| | | secured to 2.14.1.2 | | | | | | |
| | | material to 2.14.2.1 | | | | | | |
| | | if max size to accommodate A3 paper (11"x17") | | | | | mrr (not Minor B) | |
| | | (e) conveyor tracks in freights | | | | | | |
| | | (f) heating or cooling equipment | | | | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | | | [8.7.2.15]★1,★ weight additions <115kg and <5% | | | | |
| | [8.7.2.14]★1 | ★ Car operating station | | verify inspection operation 'if provided' verify stop sw verify switches operate as before (eg. FS, FEO, Access) | Minor B | Minor B | mrr | Minor B |
| | | | | [8.7.2.15]★1,★ weight additions <115kg and <5% | | | | |
| | [8.7.2.14]★2 | ★ video cameras / surveillance equipment / video monitors | | 2.8.2.1 electrical equipment & wiring 2.14.1.2.3 securing of enclosure equipment 2.14.2.4 Headroom in Elevator Cars | Minor B | Minor B | mrr | Minor B |
| | | | | [8.7.2.15]★1,★ weight additions <115kg and <5% | | | | |
| | [8.7.2.14]★3 | ★ touchless or handsfree call activation | | 8.7.2.8 Electrical Equipment, Wiring Disabled during FEO operation B44.1 / A17.5 schematic | Minor B | Minor B | mrr | Minor B |
| | 8.7.2.14.2(e) | Side Emergency Exits - Secured Shut | | | Major | - | | |
| | 8.7.2.14.2(f) | Car Ventilation | | | Minor B | see below | mrr | see below |
| | | | | 2.14.2.3 Ventilation | | Minor B | | Minor B |
| | [8.7.2.14]★4 | ★ ventilation with air purification | | 2.14.2.3 ventilation if dimensions impact overhead clearances; 2.4.7 Top-of-Car Clearances | | Minor A | | Minor A |
| | | | | [8.7.2.15]★1,★ weight additions <115kg and <5% | | | | |
| | 8.7.2.14.2(g) | Car Illumination | | | Minor B | Minor B | mrr | |
| | | | | 2.14.7 Illumination of Cars and Lighting Fixtures | | | | |
| | 8.7.2.14.2(h) | Partitions Installed in Elevator Cars | | | Major | Major | mrr | Minor B |
| | | | | 2.16.1.2 Use of Partitions for Reducing Inside Net Platform Area | | | | |
| | | | | [8.7.2.15]★1,★ weight additions <115kg and <5% | | | | |
| | [8.7.2.14]★5 | ★ Partitions in Elevators for High Risk Occupants | | Identification of need Identification of recall level during FEO Safe egress of occupants during FEO | Minor B | Minor B | mrr | Minor B |
| | | | | [8.7.2.15]★1,★ weight additions <115kg and <5% | | | | |
| | 8.7.2.14.2(i) | Installation of Car Door or Gate, Installation to meet: | | | Major | Major | | |
| | | | | 2.14.4 Passenger and Freight Car Doors/Gates, General Requirements | | | | |
| | | | | 2.14.5* Passenger Car Doors | | | | |
| | | | | 2.14.6 Freight Elevator Car Doors and Gates | | | | |
| | 8.7.2.14.4 | Alteration to Car Enclosure other than 8.7.2.14.2 - Enclosure Materials | | | Minor B | | mrr | |
| | | | | 2.14.2.1.2 flame and smoke levels | | | | |
| | | | | 2.14.2.1.3 padded protective linings | | | | |
| | | | | 2.14.2.1.4 List of items excluded from 2.14.2.1 compliance | | | | |
| | [8.7.2.14]★6 | ★ Installation of Vinyl Graphics - Car Interiors | | 2.14.2.1.2 Data sheets to reflect conformance to flame and smoke levels | Minor B | | | |
| | 0.Reg.209/01s30 | ★ Relocation of Elevator License to remote location | | | Minor B† | - | | |
| | 8.7.2.14.5 | Addition of Car Top Railing | | | Minor B | Minor A | - | Minor A |
| | | | | For inspection and test requirements, see 8.10.2.3.2(rr) | | | | |
| | | | | 8.7.2.14.5.1 Installation of a Standard Railing | Minor B | Minor A | - | Minor A |
| | | | | 2.14.1.7 Railing and Equipment on Car Enclosure Top | | | | |
| | | | | 8.7.2.14.5.2 Stowable, Foldable, Collapsible | Minor B | Minor A | - | Minor A |
| | | | | (a) when stowed operation in any mode except inspection | | | | |
| | | | | (b) when fully extended operation in inspection mode only | | | | |
| | | | | (c) no operation if between stowed and extended | | | | |
| | | | | (d) positively opening switch when leaving stowed position | | | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | | | (e) positively opening switch when leaving extended position (f) single failure protection (g) means to prevent upward movement beyond allowed point (h) when extended railing meets 2.10.2 (i) force to retract not to exceed 220N (50 lbf) | | | | |
| | [8.7.2.14]★7 | | | ★ Installation of other equipment | | Variance | | |
| | 8.7.2.15 | Car Frames and Platforms | | | ↓ See Below ↓ | | | |
| | 8.7.2.15.1 | Alterations to Car Frames and Platforms For inspection and test requirements, see 8.10.2.3.2(qq) | | | Major | - | Major | |
| | [8.7.2.15]★0 | | | 2.15. Car Frames & Platforms ★ Missing Crosshead Data Tag (Tag Required) | Minor B | Minor B | | |
| | | | | 2.16.3.2.2 Data Plates shall indicate (a) weight of complete car (b) rated load and rated speed (c) suspension means data of 2.20.2.1 (d) manufacturer name or trademark and YEAR of manufacture (e) rail lube instructions (f) percent overbalance range (Min - Max) 2.24.2.3.5 | | | | |
| | [8.7.2.15]★1 | | | ★ Cumulative Decrease Deadweight <5% | Minor B | Minor B | | |
| | [8.7.2.15]★1 | | | ★ Cumulative Increase Deadweight of Car (Less than 115 kg and Less than 5%) (a) cars weighed prior to alteration (b) In/Out weights recorded or cars weighed after alteration (c) weight change recorded on auxiliary data tag [8.7.2.15]★1(d) (d) Auxiliary data tag (1) date of alteration (2) weight added or removed from car (3) weight added or removed from cwt (4) name of alteration contractor (5) new final car weight following the alteration (6) new percent counterweight overbalance value (e) testing prior to operation to ensure security of interior finishes | Minor B | Minor B | | |
| | [8.7.2.15]★2 | | | ★ Cumulative Increase Deadweight of Car (>115 kg to 5%) [8.7.2.15]★1 engineering assessment of related items affected by weight change | Minor A | Minor A | | |
| | 8.7.2.15.2 | Cumulative Increase or Decrease in Deadweight of Car (Car Wt+Rated Load> 5%) For inspection and test requirements, see 8.10.2.3.2(d) | | | Major | - | | |
| | | | | 2.15.(*). Car Frames & Platforms 2.15.9 Platform Guards/Apron- ★apron to ED CAD/as pit depth permits 2.16. Capacity & Loading 2.17. Car & Cwt Safeties 2.18. Speed Governors 2.20.(*). Suspension Means & Their Connections 2.21.(*). Counterweights 2.22.(*). Buffers & Bumpers 2.23. Car & Cwt Guides Rails, Guide Rail Support, Fastenings 2.24.(*). Driving Machines & Sheaves 8.7.2.9 Machinery and Sheave Beams, Supports, Foundations [8.7.2.15]★1(a) to (e) | | | | |
| | 8.7.2.16 | Capacity, Loading, and Classification | | | ↓ See Below ↓ | | | |
| | 8.7.2.16.1 | Change in Type of Service: Passenger to Freight OR Freight to Passenger For inspection and test requirements, see 8.10.2.3.2(q) | | | Major | - | | |
| | | | | 2.11.1 Entrances and Emergency Doors Required 2.11.2 Types of Entrances 2.11.3 Closing of Hoistway Doors 2.11.5 Projection of Entrances & Equip. Beyond Land'g Sills 2.11.6 Opening of Hoistway Doors 2.11.7 Glass in Hoistway Doors | | | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 2.11.8 | | Weights for Closing or Balancing Doors | | | | |
| | | 2.12. | | H/W-Door Locking Devices, Elec. Contacts, H/W Access | | | | |
| | | 2.13. | | Power Operation of Hoistway Doors and Car Doors | | | | |
| | | | | 2.13.5.3 Detection of Approaching Objects | | | | |
| | | 2.22 (*) | | Buffers & Bumpers | | | | |
| | | 2.14. | | Car: Enclosure, Doors, Gates, Illumination | | | | |
| | | | 2.14.1.7.1 | car top guard rail | | | | |
| | | 2.15.(*) | | Car Frames & Platforms - ★apron guard to ED CAD/as pit permits | | | | |
| | | 2.16. | | Capacity & Loading | | | | |
| | | 2.17.(*) | | Car & Cwt Safeties | | | | |
| | | 2.18.(*) | | Speed Governors | | | | |
| | | 2.19. | | Ascending Car Overspeed & Unintended Car Movement Protection | | | | |
| | | 2.20.(*) | | Suspension Means & Their Connections (except as per 8.7.2.21.4) | | | | |
| | | | | (a) if traction-loss detection altered or added, then per 2.20.8.1 | | | | |
| | | | | (b) if broken member detection altered or added, then per 2.20.8.2 | | | | |
| | | | | (c) if strength detection altered or added, then per 2.20.8.4 | | | | |
| | | 2.24.(*) | | Driving Machines & Sheaves | | | | |
| | | 2.25. | | Terminal Stopping Devices | | | | |
| | | 2.26. | | Operating Devices and Control Equipment | | | | |
| | | 2.27. | | Emergency Operation & Signaling Devices | | | | |
| | | | | 2.27.1 Car Emergency Signalling Devices | | | | |
| | | | | 2.27.1.1.3 video / camera to observe passenger | | | | |
| | | | | 2.27.2 Emergency or Standby Power systems | | | | |
| | | | | 2.27.3 FEO: Automatic Elevators | | | | |
| | | | | CAD 2.27.3.2.2 & CAD 2.27.3.2.4 | | | | |
| | | | | 2.27.4 FEO: Non-Automatic Elevators | | | | |
| | | | | 2.27.5 FEO: Automatic Elevators w/Attendant | | | | |
| | | | | 2.27.6 FEO: Inspection Operation | | | | |
| | | | | 2.27.7 FEO: Operating Procedures | | | | |
| | | | | 2.27.8 Switch Keys | | | | |
| | | | | 2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC | | | | |
| | 8.7.2.16.2 | Change in Class of Loading: [from any class to any other class ie A, B, C1, C2, C3] | | | Major | - | | |
| | | | | For inspection and test requirements, see 8.10.2.3.2(p) | | | | |
| | | 2.16.2 | | Minimum Rated Load for Freight Elevators | | | | |
| | | 8.7.2.16.4 | | Increase in Rated Load | | | | |
| | | 2.16.1.3 | | if changing freight loading class of a passenger elevator | | | | |
| | 8.7.2.16.3 | Carrying of Passengers on Freight Elevators | | | Major | - | | |
| | | | | For inspection and test requirements, see 8.10.2.3.2(q) | | | | |
| | | | | Car doors or gates shall be provided at all car entrances | | | | |
| | | | | New Car doors and gates to: 2.14.4, 2.14.5(*), 2.14.6 | | | | |
| | | 2.14.4 | | Passenger & Frt Car Doors & Gates, General Req'mts | | | | |
| | | 2.14.5 | | Passenger Car Doors | | | | |
| | | 2.14.6 | | Freight Elevator Car Doors and Gates | | | | |
| | | 2.15.(*) | | Car Frames & Platforms- ★apron guard to ED CAD/as pit | | | | |
| | | 2.16. | | Capacity & Loading | | | | |
| | | 2.17. | | Car & Cwt Safeties | | | | |
| | | 2.18.(*) | | Speed Governors | | | | |
| | | 2.19. | | Ascending Car Overspeed & Unintended Car Movement Protection | | | | |
| | | 2.20.(*) | | Suspension Means & Their Connections | | | | |
| | | 2.21.(*) | | Counterweights | | | | |
| | | 2.22.(*) | | Buffers & Bumpers | | | | |
| | | 2.23. | | Car & Cwt Guides Rails, Guide Rail Support, Fastenings | | | | |
| | | 2.24. | | Driving Machines & Sheaves | | | | |
| | | 2.26.1.4 | | Inspection Operation | | | | |
| | | 2.26.1.5 | | Inspection Operation with Open Door Circuits | | | | |
| | | 2.26.5 | | System to Monitor & Prevent Automatic Operation w/ Faulty Door Contacts | | | | |
| | | 8.7.2.9 | | Machinery and Sheave Beams, Supports, Foundations | | | | |
| | 8.7.2.17 | Change in Rise or Rated Speed | | | Major | - | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.2.17.1 | <p style="text-align: center;">For inspection and test requirements, see 8.10.2.3.2(n)</p> Increase or Decrease in Rise 2.25. Terminal Stopping Devices retain drum m/c, travel increase < 4570mm 2.4.(*). Vertical Clearances & Runbys for Cars & Cwts If decrease in rise is at lowest end then; 2.2.4 Access to Pits 2.2.5 Illumination of Pits 2.2.6 Stop Switches 2.21.4 Compensation Means If increase in rise creates single blind hoistway 2.11.1.2 Emergency Doors in Blind Hoistways 2.11.1.3 Telephone as Alternative to Emergency Doors | | | Major | - | | |
| | 8.7.2.17.2 | Increase in Rated Speed | | | Major | - | | |
| | 8.7.2.17.2(a) | Increase in Rated Speed on a Winding Drum machine Increase in Rated Speed of a winding drum m/c prohibited 8.7.2.17.2(c) except as permitted 8.7.2.17.2(c) | | | Major | - | | |
| | 8.7.2.17.2(b) | Increase in Rated Speed except as per 8.7.2.17.2(c) 2.4.2 Minimum Bottom Runby for Counterweighted Elevators 2.4.3 Minimum Bottom Runby for Uncounterweighted Elevators 2.4.4 Maximum Bottom Runby 2.4.5 Counterweight Runby Data Plate 2.4.6 Maximum Upward Movement of the Car 2.4.7 Top of Car Clearances 2.4.8 Top of Counterweight Clearances 2.4.9 Equipment on Top of Car Not Permitted to Strike O/H 2.5. Horizontal Car and Counterweight Clearances Car doors or gates shall be provided at all car entrances 2.14.(*). New doors/gates to: Car: Enclosure, Doors, Gates, Illumination 2.16. Capacity & Loading 2.17. Car & Cwt Safeties 2.18.(*). Speed Governors 2.19. Ascending Car Overspeed & Unintended Car Movement Protection 2.20.(*). Suspension Means & Their Connections 2.21.4.2 Comp Rope Tie Down (if speed > 3.5 m/s) 2.22.(*). Buffers & Bumpers 2.24. Driving Machines & Sheaves 2.25. Terminal Stopping Devices 2.26.(*). Operating Devices and Control Equipment | | | Major | - | | |
| | 8.7.2.17.2(c) | Increase in Rated Speed less than 10% & less than 0.20m/s new spd <.75 for type A safeties new spd <1 w/spring buffer, 2.18.2.1&2 2.18.2.1 Car speed governors 2.18.2.2 counterweight speed governors 8.7.2.27.3 Change in Power Supply | | | Major | - | | |
| | 8.7.2.17.3 | Decrease in Rated Speed 2.4. Vertical Clearances & Runbys for Cars & Cwts 2.18.2 Tripping Speeds for Speed Governors 2.16. Capacity & Loading 2.16.3(*) Capacity and Data Plates 2.26.4.1 Electrical Equipment and Wiring 2.26.4.2 Drive Machine Controllers for Stopping/Starting/Controlling 2.26.4.3 Positively Opened Contacts | | | Major | - | | |
| | 8.7.2.18 | Car and Counterweight Safeties | | | Major | Major | ↓See Below ↓ | |
| | 8.7.2.18.1 | <p style="text-align: center;">For inspection and test requirements, see 8.10.2.3.2(e)</p> New Car Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors 2.23.(*). Car & Cwt Guides Rails, Guide Rail Support, Fastenings 8.7.2.19 Speed Governors and Governor Ropes | | | - | Major | mrr | Minor A |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.2.18.2 | New Cwt Safeties | 2.17. Car & Cwt Safeties | | - | Major | mrr | Minor A |
| | | | 2.18. Speed Governors | | | | | |
| | | | 2.23. Car & Cwt Guides Rails, Guide Rail Support, Fastenings | | | | | |
| | | | 8.7.2.19 Speed Governors and Governor Ropes | | | | | |
| | 8.7.2.18.3 | Existing Car Safeties | 2.17.(*) Car & Cwt Safeties | | Major | - | mrr | Minor A |
| | | | 2.18. Speed Governors | | | | | |
| | | | 2.23. Car & Cwt Guides Rails, Guide Rail Support, Fastenings | | | | | |
| | | | 8.7.2.19 Speed Governors and Governor Ropes | | | | | |
| | 8.7.2.18.3 | Existing Cwt Safeties | 2.17. Car & Cwt Safeties | | Major | - | mrr | Minor A |
| | | | 2.18. Speed Governors | | | | | |
| | | | 2.23. Car & Cwt Guides Rails, Guide Rail Support, Fastenings | | | | | |
| | | | 8.7.2.19 Speed Governors and Governor Ropes | | | | | |
| | 8.7.2.19 | Speed Governors and Governor Ropes | | | Major | Major | ↓ See Below ↓ | |
| | 8.7.2.19 | For inspection and test requirements, see 8.10.2.3.2(f) | | | | | | |
| | | 2.18. | Speed Governors | | | | mrr | Minor A |
| | | | | | | | see | |
| | 8.7.2.19 | 2.17.15 | Governor Rope Releasing Carriers | | | | mrr | mrr |
| | | | | | | | see 8.6.3.9 | |
| | 8.7.2.19 | Governor Ropes of different material or Construction to: | | | | | - | Minor B |
| | | | 2.18.6 | Design Gov'r Rope Retarding Means for Type B Safeties | | | | |
| | | | 2.18.7 | Traction between Speed Governor Rope & Sheave | | | | |
| | | | & testing to | 2.17.3 Function and Stopping Distances of Safeties | | | | |
| | 8.7.2.20 | Ascending Car Overspeed and Unintended Car Movement Protection (ACO & UCM) | | | Minor A | Major | mrr | Minor A |
| | 8.7.2.21 | Suspension Means and Their Connections | | | ↓ See Below ↓ | | | |
| | | For inspection and test requirements, see 8.10.2.3.2(gg) | | | | | | |
| | 8.7.2.21.1 | Change in Number of, or Diameter of Suspension Member | | | Major | - | | |
| | | 2.20. | Suspension Means & Their Connections | | | | | |
| | | | PEO to certify existing sheaves w/different ropes are satisfactory | | | | | |
| | 8.7.2.21.1 | Change in Material / Grade of Suspension Means | | | Minor A | - | | |
| | | 2.20. | Suspension Means & Their Connections | | | | | |
| | | | PEO to certify existing sheaves w/different ropes are satisfactory | | | | see | |
| | | | | | | | 8.6.3.2 | |
| | 8.7.2.21.2 | Addition of Suspension Member Equalizers | | | Minor B | Minor B | | |
| | | 2.20.5 | Suspension Member Equalizers | | | | | |
| | 8.7.2.21.3 | Addition of Auxiliary Suspension Member Fastening Devices | | | Major | Major | | |
| | | 2.20.10 | Suspension Means & Their Connections | | | | 8.6.3.2 | |
| | 8.7.2.21.4 | Suspension Means Monitoring and Protection | | | | | | |
| | 8.7.2.21.4(a) | Traction Loss Detection | | | Minor A | Minor A | | |
| | | 2.20.8.1 | Protection Against Traction Loss | | | | | |
| | 8.7.2.21.4(b) | Broken Suspension Means Detection | | | Minor A | Minor A | | |
| | | 2.20.8.2 | Broken Suspension Member | | | | | |
| | 8.7.2.21.4(c) | Suspension Member Residual-Strength Detection | | | Minor A | Minor A | | |
| | | 2.20.8.3 | Broken Suspension Member | | | | | |
| | 8.7.2.21.4(d) | Elevators pre A17.1/B44-2007 to 2008a are exempt from | | | | | | |
| | | 2.20.8 | Suspension Means Monitoring and Protection | | | | | |
| | | 2.20.11 | Suspension Member Test | | | | | |
| | 8.7.2.22 | Counterweights | | | Minor A | - | | |
| | | For inspection and test requirements, see 8.10.2.3.2(ii) | | | | | | |
| | 8.7.2.22.1 | Alteration to any part of a cwt except guiding members | | | | | | |
| | | 2.21. | Counterweights | | | | | |
| | | 8.7.2.22.2 | Rod Type Counterweights | | | | | |
| | | 8.7.2.3 | Location and Guarding of Counterweights | | | | | |
| | 8.7.2.22.2 | Rod Type Cwt - can retain if: | | | | | | |
| | | | Minimum of 2 suspension and 2 tie rods | | | | | |
| | | | Suspension rods: | | | | | |
| | | 2.21.2.1 | Material - Cwt Frames & Rods | | | | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.2.22.3 | 2.21.2.3 | Factor of Safety Tie Rods: | | | | | |
| | | 2.21.1.2 | Retention of Weight Sections | | | | | |
| | | | Roller or similar guide shoes added | | mrr | | | mrr |
| | | | safety jaws cannot touch rails if not activated | | | | | |
| | 8.7.2.23 | Car and Counterweight Buffers and Bumpers | | | Major | - | mrr | Minor B |
| | | For inspection and test requirements, see 8.10.2.3.2(c) | | | | | | |
| | | 2.22.(*) | Buffers & Bumpers | | | | | |
| | 8.7.2.24 | Guide Rails, Supports, and Fastenings (alteration to, or stress increase >5%) | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.2.3.2(b) | | | | | | |
| | | 2.23. | Car & Cwt Guides Rails, Guide Rail Support, Fastenings | | | | | |
| | 8.7.2.25 | Driving Machines and Sheaves | | | ↓ See Below ↓ | | | |
| | 8.7.2.25.1 | Alter / Replace | Driving Machines & Sheaves | | Major | Major | | Major |
| | 8.7.2.25.1(a) | | Driving Machine Installed as part of an alteration | | Major | - | | |
| | | For inspection and test requirements, see 8.10.2.3.2(r) 8.10.2.3.2(r) 12 | | | | | | |
| | | 2.7.2 | Maintenance Path and Clearance to extent existing installation permits | | | | | |
| | | 2.9. | Machinery & Sheave Beams, Supports, Foundation | | | | | |
| | | 2.10.1 | Guarding of Equipment | | | | | |
| | | 2.19. | Ascending Car Overspeed & Unintended Car Movement Protection | | | | | |
| | | 2.20. | Suspension Means & Their Connections | | | | | |
| | | 2.24. | Driving Machines & Sheaves | | | | | |
| | | 2.26.8 | Release and Application of Driving-Machine Brakes | | | | | |
| | 8.7.2.25.1(b) | Alter / Replace | Driving Machine Components - affected component complies w/ | | Major | | | |
| | | 2.24.2 | Sheaves and Drums | | | | mrr | Major |
| | | 2.24.3 | Factor of Safety for Driving Machines and Sheaves | | | | | |
| | | 2.24.4 | Fasteners Transmitting Load | | | | | |
| | | 2.24.5 | Shafts Fillets and Keys | | | | | |
| | | 2.24.6 | Cast-Iron Worms and Worm Gears | | | | | |
| | | 2.24.7 | Friction Gearing and Clutches | | | | | |
| | | 2.24.8 | Braking Systems & Driving Machine Brakes | | | | mrr | Major |
| | | 2.24.9 | Indirect-Driving Machines | | | | | |
| | | 2.26.8 | Release and Application of Driving-Machine Brakes | | | | | |
| | | For inspection and test requirements, see 8.10.2.3.2(h) If driving-machine brake is altered | | | | | | |
| | | For inspection and test requirements, see 8.10.2.3.2(v) | | | | | | |
| | 8.7.2.25.1(c) | Change of | Driving Machine Sheave | | Major | - | mrr | Major |
| | | 2.24.2 | Sheaves and Drums | | | | | |
| | | 2.24.3 | Factor of Safety for Driving Machines and Sheaves | | | | | |
| | | 2.24.4 | Fasteners Transmitting Load | | | | | |
| | | 2.20. | Suspension Means & Their Connections | | | | | |
| | | For inspection and test requirements, see 8.10.2.3.2(w) | | | | | | |
| | 8.7.2.25.2 | Change in Location of Driving Machine | | | Major | - | | |
| | 8.7.2.25.2(a) | Change in Location of Driving Machine w/ no change in Rise | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.2.3.2(i) | | | | | | |
| | | 2.7.2 | Maintenance Path and Clearance | | | | | |
| | | 2.7.5 | Working Area Inside Hoistway and in the Pit | | | | | |
| | | 2.7.6.3.1 | Location of Equipment | | | | | |
| | | 2.7.6.3.3 | Sheaves and other equipment | | | | | |
| | | 2.7.6.4 | Means necessary for Tests | | | | | |
| | | 2.7.8 | Remote Machine Rooms, Control Rooms and Control Spaces | | | | | |
| | | 2.7.9 | Lighting, Temperature and Humidity | | | | | |
| | | 2.8 | Equipment in Hoistways, Machine or Control / Rooms or Spaces | | | | | |
| | | 2.9. | Machinery & Sheave Beams, Supports, Foundation | | | | | |
| | | 2.10. | Guarding of Equipment and Standard Railing | | | | | |
| | | 2.19 | Ascending Car Overspeed & Unintended Car Movement Protection | | | | | |
| | | 2.20. | Suspension Means & Their Connections | | | | | |
| | | 2.24.1 | Type of Driving Machines | | | | | |
| | | 2.24.2.3 | Traction | | | | | |
| | | 2.28 | Layout Drawings | | | | | |
| | | 2.29 | Identification (for elevator in the same group) | | | | | |

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|-------------------------------|-------------------------|---|----|----|-----------------------------|----------|------------------|----------------------|
| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.2.25.2(b) | Change in Location of Driving Machine w/ change in Rise For inspection and test requirements, see 8.10.2.3.2(i) 8.7.2.25(a) all items from above 8.7.2.17.1 Increase or Decrease in Rise See 8.7.2.17 for applicable testing requirements | | | Major | - | | |
| | [8.7.2.25]★1 | ★ Replacement of worm and/or gear (specify make) 2.24 specify compliance to the applicable requirements Addition of Machine Guarding - see CAD [8.7.2.7]★1 | | | - | - | mrr | Minor A |
| | 8.7.2.26 | Terminal-Stopping Devices For inspection and test requirements, see 8.10.2.3.2(k) 2.25. Terminal Stopping Devices | | | Minor B | Minor B | | |
| | 8.7.2.27 | Operating Devices and Control Equipment For inspection and test requirements, see 8.10.2.3.2(jj) | | | ↓ See Below ↓ | | | |
| | 8.7.2.27.1 | Inspection Operation and Inspection Operation with Open Door Circuits For inspection and test requirements, see 8.10.2.3.2(kk) | | | Minor A | Minor A | mrr | Minor A |
| | 8.7.2.27.1(a) | Alteration or Addition of any type of Inspection Operation 2.26.1.4 Inspection Operation see CAD 3.8.3 [8.7.2.15]★1,★2 | | | Minor A | Minor A | | |
| | 8.7.2.27.1(b) | Alteration or Addition of Door By-Pass Switches 2.26.1.5 Inspection Operation with Open Door Circuits | | | Minor A | Minor A | | |
| | 8.7.2.27.2 | Car-Leveling or Truck-Zoning Devices For inspection and test requirements, see 8.10.2.3.2(kk) 2.26.1.6 Operation in Leveling or Truck Zone | | | Minor A | Minor A | | |
| | 8.7.2.27.3 | Change in Power Supply For inspection and test requirements, see 8.10.2.3.2(ll) (a) voltage, frequency or # of phases or (b) AC to DC , DC to AC or (c) combination of DC & AC, then electrical to: 2.26.1.1 Types of Operation 2.26.1.2 For Car-Switch Operation Elevators 2.26.1.3 Add'l Operating Devices for Elevators carrying 1pc. load > than Rated 2.26.1.4 Inspection Operation 2.26.1.6 Operation in Leveling or Truck Zone 2.26.2 Electrical Protective Devices 2.26.6 Phase Protection of Motors 2.26.7 Installation of Capacitors/Devices Making EPD's Ineffective 2.26.9 Control & Operating Circuits 2.26.10 Absorption of Regenerated Power new / modified equipment and wiring to: 2.26.4.1 Electrical Equipment and Wiring 2.26.4.2 Drive Machine Controllers for Stopping/Starting/Controlling 2.26.4.3 Positively Opened Contacts brakes to: 2.24.8 Braking Systems & Driving Machine Brakes 2.26.8 Release and Application of Driving-Machine Brakes winding drum to: 2.25.3.5 Additional Req'mts for Winding Drum Machines see 8.7.2.17.2(b) Increase in Rated Speed | | | Major | - | | |
| | 8.7.2.27.4 | Controllers | | | | | | |
| | 8.7.2.27.4(a) | Install / Replace Motion Controller (no change in method of Motion Control) For inspection and test requirements, see 8.10.2.3.2(s) 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.19(*) ACU and UCM Protection 2.26.9 Control and Operating Circuits 2.29. Identification | | | Major | - | | Major |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.2.27.4(b) | Install / Replace | Operation Controller (no change in method of Operation Control) (auto to auto, non-auto to non-auto, CPPB to CPPB, etc...) For inspection and test requirements, see 8.10.2.3.2(s) | | Major | - | | Major |
| | | | 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9.3.1(d) not revert to normal operation 2.26.9.3.1(e) not render ineffective door locks, ... 2.26.9.3.2 methods to satisfy 2.26.9.3.1 (single grd, etc..) 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices | | | | | |
| | 8.7.2.27.4(c) | Install / Replace | Motion & Operation Controller (no change in method of either) For inspection and test requirements, see 8.10.2.3.2(s) | | Major | - | | Major |
| | | | 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.19. Ascending Car Overspeed & Unintended Car Movement Protection 2.25. Terminal Stopping Devices 2.26.1.2 For Car-Switch Operation Elevators 2.26.1.4 Inspection Operation 2.26.1.5 Inspection Operation with Open Door Circuits 2.26.1.6 Operation in Leveling or Truck Zone 2.26.2 Electrical Protective Devices 2.26.3 Contactor and Relays for Use in Critical Operating Circuits 2.26.4 Electrical Equipment and Wiring 2.26.5 System to Monitor & Prevent Automatic Operation w/ Faulty Door Contacts 2.26.6 Phase Protection of Motors 2.26.7 Installation of Capacitors/Devices Making EPD's Ineffective 2.26.8 Release and Application of Driving-Machine Brakes 2.26.9 Control & Operating Circuits 2.26.11 Car Platform to Hoistway Door Sills Vertical Distance levelling accuracy to 13mm (0.5 in.) 2.27.2 Emergency or Standby Power System as modified by 8.7.2.28(b) and 8.7.2.28(f) 2.29. Identification of Equipment and Floors If FEO previously present or required by OBC; or provided by an alteration 2.27.3 Firefighters' Emergency Operation - Automatic Elevators 2.27.3.1 Phase 1 Recall Operation 2.27.3.2 Phase 1 Recall Operation by FAID's CAD 2.27.3.2.2 and CAD 2.27.3.2.4 2.27.3.3 Phase 2 Emergency In-Car Operation 2.27.3.4 Interruption of Power 2.27.3.5 Multicompartment Elevators see 8.7.1.2 safety levels shall not be diminished 2.27.4 FEO: Non Automatic Elevators 2.27.5 FEO: Automatic Elevators with Designated-Attendant Operation 2.27.6 FEO: Inspection Operation 2.27.7 FEO: Operating Procedures 2.27.8 Switch Keys 2.27.9 Elevator Corridor Call Station Pictograph if required by OBC as modified by 8.7.2.28(c) thru 8.7.2.28(f) except, If FEO NOT previously present or required by OBC; 2.27.3.1 Provide Phase 1 Manual Recall Operation Only and the level of activation shall not be diminished per 8.7.1.2. | | | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | [8.7.2.27] ★ 1 | Relocation of 2.8.2 | Elevator Controller (if control wiring disconnected - reconnected) Electrical Equipment and Wiring Electrical testing to verify functionality of rewired equipment | | Major | | | |
| | 8.7.2.27.4(d) | Installation of 8.7.2.12 | Door Controller Electrical Equipment and Wiring For inspection and test requirements, see 8.10.2.3.2(u) | | Minor A | - | | Minor B |
| | 8.7.2.27.4(e) | Installation of 8.7.2.28 | Controller for Emergency or Standby Power Electrical Equipment and Wiring | | Minor A | Minor A | | Minor B |
| | 8.7.2.27.4(e) | Installation of 8.7.2.28 | Controller for FEO Operation Electrical Equipment and Wiring | | Minor A | Minor A | | Minor B |
| | 8.7.2.27.5 | Change in Type of Motion Control - AC, VVVF, DC, SCR For inspection and test requirements, see 8.10.2.3.2(t) | | | Major | - | | |
| | (a) | 2.7.2 8.7.2.7.2 2.7.9 | Maintenance Path and Clearance Means of Access Lighting, Temperature and Humidity | | | | | |
| | (b) | 8.7.2.8 | Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. | | | | | |
| | (c) | 2.11.1(*) 2.11.2 2.11.3 2.11.4 2.11.5 2.11.6 2.11.7 2.11.8 2.11.9 2.11.10 2.11.11.6 2.11.11.7 2.11.11.8 2.11.11.10 2.11.12.8 | Entrances and Emergency Doors Required Types of Entrances Closing of Hoistway Doors Location of Horizontally Sliding or Swinging H/W Doors Projection of Entrances & Equip. Beyond Land'g Sills Opening of Hoistway Doors Glass in Hoistway Doors Weights for Closing or Balancing Doors Hoistway Door Locking Devices & Power Operation Landing-Sill; Guards, Illumination, Hinged Sills, and Tracks Bottom Guides Multipanel Entrances Hoistway Door Safety Retainers Hoistway Door to Sill Clearance Pull Straps | | | | | |
| | (d) | 2.12.(*) | H/W-Door Locking Devices, Elec. Contacts, H/W Access 2.12.6 Hoistway Door Unlocking Devices 2.12.7 Hoistway Access Switches | | | | | |
| | (e) | 2.13. | Power Operation of Hoistway Doors and Car Doors | | | | | |
| | (f) | 2.14.(*) | Car: Enclosure, Doors, Gates, Illumination | | | | | |
| | (g) | | 2.14.1.7 car top railing or stowable type 8.7.2.14.5.2 | | | | | |
| | (i) | 2.16.8(*) | Capacity & Loading | | | | | |
| | (h) | 2.17.(*) 2.18.(*) | Car & Cwt Safeties Speed Governors | | | | | |
| | (j) | 2.19. | Ascending Car Overspeed & Unintended Car Movement Protection | | | | | |
| | (k) | 2.25. | Terminal Stopping Devices | | | | | |
| | (l) | 2.26.(*) | Operating Devices and Control Equipment | | | | | |
| | (n) | 2.29. | Identification of Equipment and Floors as modified by 8.7.2.28(c) thru 8.7.2.28(f) | | | | | |
| | (m) | If FEO previously present or required by OBC; or provided by an alteration | | | | | | |
| | | 2.27. | Emergency Operation & Signaling Devices 2.27.1 Car Emergency Signalling Devices as modified by 8.7.2.28(a) and 8.7.2.28(f) 2.27.2 Emergency or Standby Power systems 2.27.3 Firefighters' Emergency Operation: Automatic Elevators 2.27.3.1 Phase 1 Recall Operation 2.27.3.2 Phase 1 Recall Operation by FAID's CAD 2.27.3.2.2 and CAD 2.27.3.2.4 2.27.3.3 Phase 2 Emergency In-Car Operation 2.27.3.4 Interruption of Power 2.27.3.5 Multicompartment Elevators see 8.7.1.2 safety levels shall not be diminished 2.27.4 FEO: Non Automatic Elevators | | | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | | |
| | | Job Reference: | | | Alteration | | Replacement with | | |
| | | | | | Modification Change | Addition | Same | Different Make/Model | |
| | | | | | Type of Submission Required | | | | |
| | | | | 2.27.5 FEO: Automatic Elevators with Designated-Attendant Operation 2.27.6 FEO: Inspection Operation 2.27.7 FEO: Operating Procedures 2.27.8 Switch Keys 2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC except, If FEO NOT previously present or required by OBC; as a minimum 2.27.3.1 Provide Phase 1 Manual Recall Operation Only and the level of activation shall not be diminished per 8.7.1.2. | | | | | |
| | | | | Drive Replacement (ie Power Conversion Equipment) - See [8.7.2.8]★1 | | | | | |
| | 8.7.2.27.6 | Change in Type of Operation Control - CPPB, AUTOMATIC For inspection and test requirements, see 8.10.2.3.2(t) | | | Major | - | | | |
| | | | | 2.2(*) Pits 2.3. Counterweight Guarding 8.7.2.4 Vertical Car and Counterweight Clearances and Runbys 8.7.2.5 8.7.2.5 Horizontal Car and Counterweight Clearances 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 2.7.5 Working Areas Inside the Hoistway and in the Pit 2.7.6 Location of Machinery/Control Spaces/Rooms and Equipment 2.7.9 Lighting, Temperature, Humidity in Machinery/Control Spaces/Rooms 8.7.2.8 Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs 2.11.1 Entrances and Emergency Doors Required 2.11.2 Types of Entrances 2.11.3 Closing of Hoistway Doors 2.11.4 Location of Horizontally Sliding or Swinging H/W Doors 2.11.5 Projection of Entrances & Equip. Beyond Land'g Sills 2.11.6 Opening of Hoistway Doors 2.11.7 Glass in Hoistway Doors 2.11.8 Weights for Closing or Balancing Doors 2.11.9 Hoistway Door Locking Devices & Power Operation 2.11.10 Landing Sill: Guards, Illumination, hinged sills, Tracks 2.11.11 Entrances, Horizontal Slide Type 2.11.12 Entrances, Vertical Slide Type 2.11.13 Entrances, Swing Type 2.12. H/W-Door Locking Devices, Elec. Contacts, H/W Access 2.13. Power Operation of Hoistway Doors and Car Doors 2.14.(*) Car: Enclosure, Doors, Gates, Illumination 2.14.1.7 car top railing or stowable type 8.7.2.14.5.2 2.16. Capacity & Loading 2.17. Car & Cwt Safeties 2.18.(*) Speed Governors 2.19. ACO and UCM Protection 2.25. Terminal Stopping Devices 2.26.(*) Operating Devices and Control Equipment 2.29. Identification of Equipment and Floors 2.27. Emergency Operation & Signaling Devices 2.27.1 Car Emergency Signalling Devices 2.27.2 Emergency or Standby Power systems 2.27.3 FEO: Automatic Elevators CAD 2.27.3.2.2 and CAD 2.27.3.2.4 2.27.4 FEO: Non-Automatic Elevators 2.27.5 FEO: Automatic Elevators w/Attendant 2.27.6 FEO: Inspection Operation 2.27.7 FEO: Operating Procedures 2.27.8 Switch Keys 2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC | | | | | |
| | [8.7.2.27]★2 | ★ Addition of Wander Patient Feature - Change in Operation Control 2.13.5.2 - door time out 2.27.3.1.6(l) - shall not prevent PHI | | | Minor B | Minor B | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | [8.7.2.27]★3 | ★ Addition of Restricted Access - Security / Floor Lock Out OBC-3.2.6.5(4) - shall not prevent floor access when on FEO D.O. Button Remain Operative Under non FEO Conditions, Door Closed When not in Use 2.27.3.3.1(i) - permit travel to all landings when on PH II 2.11.6.2 Cannot Lock Out Top& Btm, Designated & Alternate or All Landings in Phase II | | | Minor B | Minor B | | |
| | [8.7.2.27]★4 | ★ Addition of Destination Dispatch 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W's &M/C Rooms FEO operation to 8.7.2.28 or code at time of installation or alteration | | | | Minor B | | |
| | 8.7.2.27.7 | Removal of emergency stop switch on passenger elevators For inspection and test requirements, see 8.10.2.3.2(t) remove all related markings / engravings & provide an in-car stop switch to: ★ 2.26.2.21 In-car stop switch ★ 2.26.4.3 Positively Opened Contacts ★ 2.26.9.3 Single failure does not render In-Car Stop Sw ineffective | | | Minor B | - | | |
| | 8.7.2.27.8 | Electrical Protective Devices For inspection and test requirements, see 8.10.2.3.2(nn) | | | ↓ See Below ↓ | | | |
| | 8.7.2.27.8 | Alteration or Addition of an Electrical Protective Device if device meets 2.26.4.3.2 (PES) 2.26.2 Electrical Protective Devices - for specified device | | | Major | Major | mrr | Major |
| | 8.7.2.27.8 | Alteration or Addition of an Electrical Protective Device if device meets 2.26.4.3.1 2.26.2 Electrical Protective Devices - for specified device | | | - | Minor A | mrr | |
| | 8.7.2.27.9 | Door Monitoring System For inspection and test requirements, see 8.10.2.3.2(oo) | | | ↓ See Below ↓ | | | |
| | 8.7.2.27.9 | Alteration or Addition of a System to Monitor faulty door contract circuits 2.26.5 System to Monitor & Prevent Automatic Operation w/ Faulty Door Contacts | | | Minor A | Minor A | | |
| | 8.7.2.28 | Emergency Operation and Signaling Devices For inspection and test requirements, see 8.10.2.3.2(pp) | | | ↓ See Below ↓ | | | |
| | 8.7.2.28(a) | Car Emergency Signaling Devices 2.27.1 Car Emergency Signaling Devices visual & audible signal permitted to be inside the car 8.7.2.8 Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs 2.26.4.2 Listed/Certified Labeled/Marked 2.29. Identification (for elevators in the same group) | | | Minor B | Minor B | mrr | |
| | 8.7.2.28(b) | Emergency or Standby Power For inspection and test requirements, see 8.10.2.3.2(l) 2.27.2 Emergency or Standby Power systems 8.7.2.8 Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs 2.26.4.2 Listed/Certified Labeled/Marked 2.29. Identification (for elevators in the same group) | | | Minor B | Minor A | | |
| | 8.7.2.28(c) | Firefighter's Emergency Operation or Occupant Evacuation Operation For inspection and test requirements, see 8.10.2.3.2(m) 2.27.3 FEO: Automatic Elevators 2.27.4 FEO: Non-Automatic Elevators 2.27.5 FEO: Automatic Elevators w/Attendant 2.27.6 FEO: Inspection Operation 2.27.7 FEO: Operating Procedures 2.27.8 Switch Keys 2.27.11 Occupant Evacuation Operation 8.7.2.8 Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs 2.26.4.2 Listed/Certified Labeled/Marked 2.29. Identification (for elevators in the same group) | | | Minor B | Minor A | | |
| | 8.7.2.28(d) | Addition of Elevator to a Group - all elevators to meet: For inspection and test requirements, see 8.10.2.3.2(m) 2.27. Emergency Operation & Signaling Devices | | | - | Minor A | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | | | 2.27.1 Car Emergency Signalling Devices 2.27.2 Emergency or Standby Power systems 2.27.3 FEO: Automatic Elevators CAD 2.27.3.2.2 and CAD 2.27.3.2.3 2.27.4 FEO: Non-Automatic Elevators 2.27.5 FEO: Automatic Elevators w/Attendant 2.27.6 FEO: Inspection Operation 2.27.7 FEO: Operating Procedures 2.27.8 Switch Keys 2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC | | | | |
| | [8.7.2.28]★1 | ★ | Emerg. Recall Upgrade - from Manual to Automatic matching code at time of install conformance to auto recall based on F.S. at time of install | | Minor B | | | |
| | [8.7.2.28]★2 | ★ | Emerg. Recall Upgrade to comply with a Fire Code Retrofit Order 2.27.3 FEO: Automatic Elevators CAD 3.20 Fire Code Retrofits | | Minor B | Minor A | | |
| | [8.7.3.]★ | Alteration - Hydraulic to Electric Elevator | | | | | | |
| | [8.7.3.]★1 | Where a hydraulic elevator operated in an existing hoistway and a new electric elevator ★ Part 2 Electric Elevators, except: ★ Existing building conditions not in full conformance with current requirements may be retained. Identify each deviation in the submission (box 4000) ie. - pit depth - no pit drain ★ A New Installation Number will be issued ★ 2.15.9 Apron plate length per 2.15.9 or - collapsible / telescopic / folding design utilized | | | | New | | |
| | 8.7.3 | Alterations to Hydraulic Elevators | | | | | | |
| | 8.7.3.1 | Hoistway Enclosures | | | | see 8.7.2.1 | | |
| | 8.7.2.1 | Hoistway Enclosures | | | Major | Major | | |
| | 8.7.2.1.1 | Hoistway Enclosure Walls | | | Major | Major | | |
| | | | 2.1.1 | Hoistway Enclosures | | | | |
| | | | 2.1.5 | Windows and Skylights | | | | |
| | | | 2.1.6 | Projections, Recesses, and Setbacks in H/W | | | | |
| | | | 2.5. | Horizontal Car and Counterweight Clearances | | | | |
| | | | 2.7.3.4.6 | Access Doors and Openings | | | | |
| | | ★ | 2.7.3.4.7 | Access Doors and Openings | | | | |
| | | | 2.8. | Equipment in Hoistways, Machine or Control / Rooms or Spaces | | | | |
| | | | 8.7.2.10 | Entrances and Hoistway Openings (if change includes an entrance) | | | | |
| | | | 2.11.1 | Entrances and Emergency Doors Required (if blind H/W) | | | | |
| | 8.7.2.1.2 | Addition of Elevator to Existing Hoistway | | | - | New | | |
| | | B44-2019 | New Installation | | | | | |
| | | 2.5. | Horizontal Car and Counterweight Clearances | | | | | |
| | 8.7.2.1.3 | Construction at Top of Hoistway | | | Major | Major | | |
| | | | 2.1.2.1 | Construction at Top of the Hoistway | | | | |
| | | | 2.1.3 | Floor Over Hoistways | | | | |
| | | | 8.7.2.4 | Vertical Car & Cwt Clearances & Runbys | | | | |
| | 8.7.2.1.4 | Construction at Bottom of Hoistway | | | Major | Major | | |
| | | | 2.1.2.2 | Construction at Bottom of the Hoistway | | | | |
| | | | 2.1.2.3 | Strength of Pit Floor | | | | |
| | | | 2.2. | Pits | | | | |
| | | | 8.7.2.4 | Vertical Car & Cwt Clearances & Runbys | | | | |
| | 8.7.2.1.5 | Control of Smoke and Hot Gases | | | Major | Major | | |
| | | | 2.1.4 | Control of Smoke and Hot Gases | | | | |
| | 8.7.3.2 | Pits | | | | see Electric Elevators | | |
| | 8.7.2.2 | Pits see other alterations below for non Major Alterations | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.3.3.2(u) | | | | | | |
| | 8.7.2.1.2 | Alteration to Pits | | | | | | |
| | | | 2.2. | Pits | | | | |
| | | | 2.1.2.3 | Strength of Pit Floor | | | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 8.7.2.4 | Vertical Car & Cwt Clearances & Runbys | | | | | |
| | 8.7.2.1.2 | Pit Drains & Sumps | | | Minor B | Minor B | | |
| | | 2.2.2. | Pit Drains | | | | | |
| | 8.7.2.1.2 | Pit Guards | | | Minor B | Minor A | | |
| | | 2.2.3 | Guards Between Adjacent Pits | | | | | |
| | 8.7.2.1.2 | Pit Access | | | Minor B | Minor A | | |
| | | 2.2.4 | Pit Access | | | | | |
| | 8.7.2.1.2 | Pit Illumination | | | Minor B | Minor B | | |
| | | 2.2.5 | Illumination of Pits | | | | | |
| | 8.7.2.1.2 | Pit Stop Switches | | | Minor B | Minor A | | |
| | | 2.2.6 | Stop Switches | | | | | |
| | 8.7.2.1.2 | Pit Depth | | | Minor B | Minor A | | |
| | | 2.2.7 | Minimum Pit Depths Required | | | | | |
| | 8.7.2.1.2 | Access to Underside of Car | | | Minor B | Minor A | | |
| | | 2.2.8 | Access to Underside of Car | | | | | |
| | 8.7.2.2.2 | Addition of surface-mounted sump pump | | | - | Minor B | | |
| | | 3.4.1 | bottom clearances maintained not restrict pit access | | | | | |
| | | 2.2.2.4 | plumbing code, ventilation of gases | | | | | |
| | | 2.2.2.5 | If FEO elevator, 11.4 m ³ /h (3000 gal/h) single or multiple h/w | | | | | |
| | 8.7.3.3 | Location and Guarding of Counterweights | | | Major | Major | | |
| | | For inspection and test requirements, see 8.10.3.3.2(b) | | | | | | |
| | | 2.3. | Location and Guarding of Counterweights | | | | | |
| | | 2.5.1.2 | Between Car & Cwt and Cwt Guard | | | | | |
| | | 3.5. | Horizontal car and Counterweight Clearances | | | | | |
| | 8.7.3.4 | Vertical Car and Counterweight Clearances and Runbys (no reduction allowed) | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.3.3.2(v) | | | | | | |
| | | 3.4. | Bottom and Top Clearances and Runbys for Cars and Cwts | | | | | |
| | | 8.7.3.22.1 | Increase or Decrease in Rise | | | | | |
| | | 8.7.3.22.2 | Increase in Rated Speed | | | | | |
| | | 8.7.3.23.5 | Change in Location of Hydraulic Jack | | | | | |
| | 8.7.3.5 | Horizontal Car and Counterweight Clearances (no reduction allowed) | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.3.3.2(w) | | | | | | |
| | | 2.5. | Horizontal Car and Counterweight Clearances | | | | | |
| | | 8.7.3.22.1 | Increase or Decrease in Rise | | | | | |
| | | 8.7.3.22.2 | Increase in Rated Speed | | | | | |
| | | 8.7.3.23.5 | Change in Location of Hydraulic Jack | | | | | |
| | 8.7.3.6 | Protection of Spaces Below Hoistways | | | Minor B | Major | | |
| | | For inspection and test requirements, see 8.10.3.3.2(x) | | | | | | |
| | | 3.6. | Protection of Spaces below Hoistway | | | | | |
| | 8.7.3.7 | Machine Rooms and Machinery Spaces | | | see 8.7.2.7 | | | |
| | 8.7.2.7 | Machine Rooms and Machinery Spaces | | | ⇩ See Below ⇩ | | | |
| | 8.7.2.7.1 | Enclosures - other than specifics of 8.7.2.7.2 to 8.7.2.7.7 | | | | | | |
| | | 2.7. (& 3.7.) | New - Machinery Spaces, Machine Rooms Control Spaces & Control Rooms | | - | Major | | |
| | | 2.7. (& 3.7.) | Altered- Machinery Spaces, Machine Rooms Control Spaces & Control Rooms | | Minor A | - | | |
| | | OESC | Electrical Equipment Clearances | | Minor B | - | | |
| | 8.7.2.7.2 | Means of Access | | | Minor B | - | | |
| | | 2.7.3.1 | General Requirements | | | | | |
| | | 2.7.3.2 | Access Across Roofs | | | | | |
| | | 2.7.3.3 | Means of Access | | | | | |
| | 8.7.2.7.3 | Access Doors and Openings | | | Minor B | Minor B | | mrr |
| | | 2.7.3.4 | Access Doors and Openings | | | | | |
| | | 2.7.3.5 | Stop Switch for Machinery Space or Control Spaces | | | | | |
| | 8.7.2.7.4 | Headroom (no reduction) | | | Minor B | Minor B | | |
| | | 2.7.4 | Headroom in Machine Rooms/Spaces, Control Room/Spaces | | | | | |
| | 8.7.2.7.5 | Windows and Skylights | | | Minor B | Minor B | | |
| | | 2.1.5 | Windows and Skylights | | | | | |
| | 8.7.2.7.6 | Lighting (no reduction) | | | Minor B | Minor A | | |
| | | 2.7.9.1 | Lighting | | | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.2.7.7 | Ventilation | 2.7.9.2 | Temperature & Humidity | Minor B | Minor B | | |
| | [8.7.2.7]★1 | Addition of Elevator Equipment Guarding | (a) 2.7.2 | Maintenance Path and Clearance | Minor A | Minor A | mrr | mrr |
| | | (b) 2.7.3.4.2 | | Size of doors and openings in cage style enclosures (750x2030) | | | | |
| | | (c) 2.10.1 | | Guarding of Equipment | | | | |
| | | (d) | | openable/removable only with tools | | | | |
| | | (e) | | operating/work instruction for accessing equipment | | | | |
| | | (f) | | clearances in front of electrical control equipment (1000mm) | | | | |
| | | (g) | | or clearance required at time of original control installation | | | | |
| | | (g) | | access in front of / space to operate main disconnect (1000mm), | | | | |
| | | (g) | | or (750mm) if permitted at time of original installation | | | | |
| | | (h) | | Installation by registered contractor | | | | |
| | | (i) | | designed to be handled by one person | | | | |
| | 8.7.3.8 | Electrical Wiring, Pipes, and Ducts in Hoistways and Machine Rooms | | | Minor B | Minor B | mrr | Minor B |
| | 8.7.3.9 | Machinery and Sheave Beams, Supports and Foundations | | | Major | Major | | |
| | | New/Relocated Machinery & Sheave Beams, Supports, Foundation | | | | | | |
| | | 2.9. Machinery & Sheave Beams, Supports, Foundation | | | | | | |
| | | Building reactions increased by more than 5% | | | | | | |
| | | 2.9. Machinery & Sheave Beams, Supports, Foundation | | | | | | |
| | | adequacy of building structure verified by P.Eng. | | | | | | |
| | 8.7.3.10 | Hoistway Entrances and Openings - see 8.7.2.10 | | | | | see 8.7.2.10 | |
| | 8.7.2.10 | Entrances and Hoistway Openings | | | Major | Major | | see below |
| | 8.7.2.10.1 | General Requirements | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.2.3.2(o) | | | | | | |
| | 8.7.2.10.1(a) | General Requirements - All New Entrances | | | Major | - | Major | Major |
| | | 2.11. Protection of H/W Openings | | | | | | |
| | | 2.12. H/W-Door Locking Devices, Elec. Contacts, H/W Access | | | | | | |
| | | 2.13. Power Operation of Hoistway Doors and Car Doors | | | | | | |
| | | 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor) | | | | | | |
| | | 2.29.2 Identification of Floors | | | | | | |
| | 8.7.2.10.1(b) | General Requirements - New Entrances w/Existing Entrances | | | - | Major | | |
| | | 2.11.2 Types of Entrances | | | | | | |
| | | 2.11.3 Closing of Hoistway Doors | | | | | | |
| | | 2.11.4 Location of Horizontally Sliding or Swinging H/W Doors | | | | | | |
| | | 2.11.5 Projection of Entrances & Equip. Beyond Land'g Sills | | | | | | |
| | | 2.11.6 Opening of Hoistway Doors | | | | | | |
| | | 2.11.7 Glass in Hoistway Doors | | | | | | |
| | | 2.11.8 Weights for Closing or Balancing Doors | | | | | | |
| | | 8.7.2.10.5 Marking of Entrance Assemblies | | | | | | |
| | | Entire installation to meet: | | | | | | |
| | | 2.11.6 Opening of Hoistway Doors | | | | | | |
| | | 2.12. H/W-Door Locking Devices, Elec. Contacts, H/W Access | | | | | | |
| | | 2.13. Power Operation of Hoistway Doors and Car Doors | | | | | | |
| | | 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor) | | | | | | |
| | | 2.29.2 Identification of Floors | | | | | | |
| | 8.7.2.10.1(c) | General Requirements - Alteration to H/W Entrance | | | Major | - | | |
| | | 2.11.3 Closing of Hoistway Doors | | | | | | |
| | | 2.11.5 Projection of Entrances & Equip. Beyond Land'g Sills | | | | | | |
| | | 2.11.7 Glass in Hoistway Doors | | | | | | |
| | | 2.11.8 Weights for Closing or Balancing Doors | | | | | | |
| | | 8.7.2.10.5 Marking of Entrance Assemblies | | | | | | |
| | | Entire installation to meet: | | | | | | |
| | | 2.12. H/W-Door Locking Devices, Elec. Contacts, H/W Access | | | | | | |
| | | 2.13. Power Operation of Hoistway Doors and Car Doors | | | | | | |
| | | 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor) | | | | | | |
| | | 2.29.2 Identification of Floors | | | | | | |
| | 8.7.2.10.1(d) | General Requirements - Emergency Doors (added or altered) | | | Major | Major | | |
| | | 2.11.1 Entrances and Emergency Doors Required | | | | | | |
| | | 8.7.2.10.5 Marking of Entrance Assemblies | | | | | | |
| | 8.7.2.10.1(e) | General Requirements - Access Openings (installed for cleaning) | | | Major | Major | | |
| | | 2.11.1.4 Access Opening for Cleaning of Car & H/W Enclosure | | | | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | 8.7.2.10.2 | Horizontal Slide-Type Entrances - new entrance and components to meet: For inspection and test requirements, see 8.10.2.3.2(o) | | | Major | Major | see below | |
| | | 8.7.2.10.1 | Entrances & H/W Openings - General Req'mts | | | | Major | |
| | | 2.11.11 | Entrances, Horizontal Slide Type | | | | | |
| | | Installed New components to meet: | | | | | | |
| | sills (a) | 2.11.10.1 | Landing-Sill Guards | | Minor B | | Minor B | |
| | | 2.11.11.1 | Landing Sills | | | | | |
| | | 2.11.11.6 | Bottom Guides | | | | | |
| | hanger /track (b) | 2.11.11.2 | Hanger Tracks, and Track Supports | | Minor B | | Minor B | |
| | frame (c) | 2.11.11.3 | Entrance Frames | | Minor A | | Minor A | |
| | | 2.11.11.5.1 | Panel Overlap | | | | | |
| | | 2.11.11.5.2 | Panel Gaps Clearances | | | | | |
| | | 2.11.11.5.3 | Pockets in Strike Jamb | | | | | |
| | hangers (d) | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | panels (e) | 2.11.11.4 | Hangers | | Minor B | | Minor B | |
| | | 2.11.11.5(*) | Panels | | Minor A | | Minor A | |
| | | 2.11.11.6 | Bottom Guides | | | | | |
| | | 2.11.11.7 | Multipanel Entrances | | | | | |
| | retainers (f) | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | | 2.11.11.8 | Hoistway Door Safety Retainers | | Minor B | | Minor B | |
| | 8.7.2.10.3 | Vertical-Slide-Type Entrances - new entrance and components to meet: For inspection and test requirements, see 8.10.2.3.2(o) | | | Major | Major | see below | |
| | | 8.7.2.10.1 | Entrances & H/W Openings - General Req'mts | | | | Major | |
| | | 2.11.12 | Entrances, Vertical Slide Type | | | | | |
| | | Installed New components to meet: | | | | | | |
| | sills (a) | 2.11.10.3 | Hinged Hoistway Landing Sills | | Minor B | | Minor B | |
| | | 2.11.12.1 | Landing Sills | | | | | |
| | frames (b) | 2.11.12.2 | Entrances Frames | | Minor B | | Minor B | |
| | | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | rails (c) | 2.11.12.3 | Rails | | mrr | | mrr | |
| | panels (d) | 2.11.12.3 | Rails | | Minor A | | Minor A | |
| | | 2.11.12.4 | Panels | | | | | |
| | | 2.11.12.5 | Guides | | | | | |
| | | 2.11.12.6 | Counterweighting or Counterbalancing | | | | | |
| | | 2.11.12.8 | Pull Straps | | | | | |
| | guides (e) | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | sill guard (f) | 2.11.12.5 | Guides | | | | | |
| | straps (g) | 2.11.12.7 | Sill Guards | | mrr | | mrr | |
| | | 2.11.12.8 | Pull Straps | | | | | |
| | 8.7.2.10.4 | Swing-Type Entrances - new entrance and components to meet: For inspection and test requirements, see 8.10.2.3.2(o) | | | Major | Major | see below | |
| | | 8.7.2.10.1 | Entrances & H/W Openings - General Req'mts | | | | Major | |
| | | 2.11.13 | Entrances, Swing Type | | | | | |
| | | Installed New components to meet: | | | | | | |
| | sills (a) | 2.11.10.1 | Landing-Sill Guards | | Minor B | | Minor B | |
| | | 2.11.10.3 | Hinged Hoistway Landing Sills | | | | | |
| | frames (b) | 2.11.13.1 | Landing Sills | | | | | |
| | | 2.11.13.2 | Entrance Frames | | Minor B | | Minor B | |
| | | 2.11.13.4 | Hinges | | | | | |
| | panels (c) | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | | 2.11.13.3 | Panels | | Minor B | | Minor B | |
| | | 2.11.13.4 | Hinges | | | | | |
| | | 2.11.13.5 | Marking | | | | | |
| | hinges (d) | 8.7.2.10.5 | Marking of Entrance Assemblies | | | | | |
| | | 2.11.13.4 | Hinges | | mrr | | mrr | |
| | 8.7.2.10.5 | Marking of Entrance Assemblies (Alteration to an Entrance or Door Panel) Fire Protection Rating not less then existing entrance 8.7.2.10.5(a) labeled per NBCC requirements | | | Major | Major | | |
| | [8.7.2.10]★1 | ★ Removing Service To a Floor | | | Minor B | | | |
| | | Bolt entrances shut | | | | | | |
| | | Remove Interlock From Safety String | | | | | | |
| | | Remove COP Floor Button | | | | | | |

| 0 | 1 | 2a | 2b | 2c | 3 | 4 | 5 | 6 |
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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 2.11.6.2 | | Cannot Lock Out Top/Btm, Designated/Alternate, All Landing in Phase II | | | | |
| | | 2.12.7 | | H/W Access Switches - if floor was previously the access location | | | | |
| | 8.7.2.10★2 | ★ Door Safety Retainers | | | Minor B | Minor A | mrr | Minor B |
| | | 2.11.11.8 | | Hoistway Door Safety Retainers | | | | |
| | 8.7.3.11 | Hoistway Door-Locking Devices | | | See 8.7.2.11 | | | |
| | 8.7.2.11 | Hoistway Door-Locking Devices, Access Switches & Parking Devices | | | ↓ See Below ↓ | | | |
| | 8.7.2.11.1 | For inspection and test requirements, see 8.10.3.3.2(aa) | | | | | | |
| | | Interlocks | | | - | Major | mrr | Minor B |
| | | 2.12.1 | | General | | | | |
| | | 2.12.2 | | Interlocks | | | | |
| | | 2.12.4 | | Listing/Certification Locking Devices | | | | |
| | | 2.12.6 | | Hoistway Door Unlocking Devices (n/a for column 5,6) | | | n/a | |
| | | 2.12.7 | | Hoistway Access Switches (n/a for column 5,6) | | | n/a | |
| | | 2.14.5.7 | | Restricted Opening of Car Doors (Interlock or Restrictor) | | | n/a | |
| | | 2.24.8.3 | | Driving-Machine Brake | | | | |
| | 8.7.2.11.2 | Mechanical Locks and Electric Contacts | | | - | Major | mrr | Minor B |
| | | 2.12.1 | | General | | | | |
| | | 2.12.3 | | H/W Door Combination Mechanical Locks & Contacts | | | | |
| | | 2.12.4 | | Listing/Certification Locking Devices | | | | |
| | | 2.12.6 | | Hoistway Door Unlocking Devices | | | | |
| | | 2.24.8 | | Braking System and Driving-Machine Brake | | | | |
| | 8.7.2.11.3 | Parking Devices | | | Minor A | Minor A | | |
| | | 8.7.2.11.3 | | requirements specified | | | | |
| | 8.7.2.11.4 | Access Switches and Unlocking Devices | | | | | | |
| | 8.7.2.11.4 (a) | Addition of Unlocking Devices | | | - | Minor B | mrr | |
| | | 2.12.6 | | Hoistway Door Unlocking Devices | | | | |
| | | 2.24.8.3 | | Driving-Machine Brake | | | | |
| | 8.7.2.11.4 (b) | Addition of Access Switches | | | - | Minor A | mrr | |
| | | 2.12.7 | | Hoistway Access Switches | | | | |
| | | 2.24.8 | | Braking System and Driving-Machine Brake | | | | |
| | | 2.26.1.4 | | Inspection Operation | | | | |
| | 8.7.2.11.5 | Restricted Opening of H/W or Car Doors of Passenger Elevators (Restrictors) (Altered or Installed) | | | Minor B | see below | mrr | Minor B |
| | | 2.14.5.7 | | Restricted Opening of Car Doors (Interlock or Restrictor) | | | | |
| | | 2.14.5.7(a) | | Interlock | | Minor A | | |
| | | | | provide schematic | | | | |
| | | 2.14.5.7(b) | | Restrictor (w/electrical means & tied into control system) | | Minor A | | |
| | | | | provide schematic | | | | |
| | | 2.14.5.7(b) | | Restrictor (Mechanical - not requiring electrical means) | | Minor B | | |
| | 8.7.3.12 | Power Operation of Hoistway Doors (Addition / Alteration to Power Open or Close) | | | Minor A | Minor A | | |
| | | For inspection and test requirements, see 8.10.2.3.2(a) | | | | | | |
| | | 8.7.2.10.1 | | Entrances & H/W Openings - General Req'mts | | | | |
| | | 8.7.2.10.2 | | Horizontal Slide-Type Entrances | | | | |
| | | 8.7.2.10.3 | | Vertical Slide-Type Entrances | | | | |
| | | 8.7.2.10.5 | | Marking of Entrance Assemblies | | | | |
| | | 8.7.3.10 | | Hoistway Entrances and Openings | | | | |
| | | ★ 2.13. | | Power Operation of Hoistway Doors and Car Doors | | | | |
| | | | | Installed New or Modified components and wiring to meet: | | | | |
| | | 8.7.2.8 | | Electrical Equipment, Wiring | | | | |
| | | 2.26.4.2 | | Listed/Certified and Labeled/Marked B44.1/A17.5 if New | | | | |
| | 8.7.2.12★1 | ★ Replacement of Door Operator | | | - | - | mrr | Minor B |
| | | 2.13.(*) | | Power Operation of Hoistway Doors and Car Doors | | | | |
| | | | | except 2.13.5.4, 2.13.5.5, 2.13.5.6 if not previously provided | | | | |
| | | [8.7.2.15]★1,★2 | | | | | | |
| | 8.7.3.13 | Car Enclosures and Door Reopening Devices | | | | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.2.13.2 | Door Reopening Device (Safety Edge) (Altered or Added or Replaced) | | | See 8.7.2.13 | | | |
| | 8.7.2.13 | Door Reopening Device (Safety Edge) (Added or Part of an Alteration) | | | Minor B | Minor B | Minor B | |
| | | For inspection and test requirements, see 8.10.2.3.2(ee) | | | | | | |
| | | 2.13.4 | Closing Limitations for Power Operated HS Doors & Gates | | | | | |
| | | 2.13.5 | Reopening Device for Power Operated Car Doors or Gates | | | | | |
| | | | 2.13.5.3 Detection of Approaching Objects | | | | | |
| | | | 2.13.5.4 Detection of Objects in the Door Path | | | | | |
| | | | if FEO provided, door opening & closing to PHI & I&I at time of | | | | | |
| | | Door Reopening Device (Safety Edge) (Replacement - Mech-Mech or Elec to Elec) | | | | | mrr | mrr |
| | | no change in detection features | | | | | see 8.6.3.8 | |
| | | Door Reopening Device (Safety Edge) (Replacement - Mech-Elec or 2D Elec to 3D Elec) | | | | | - | Minor B |
| | | 2.13.4 | Closing Limitations for Power Operated HS Doors & Gates | | | | | |
| | | 2.13.5 | Reopening Device for Power Operated Car Doors or Gates | | | | | |
| | | | 2.13.5.3 Detection of Approaching Objects | | | | | |
| | | | if FEO provided, door opening & closing to PHI & I&I at time of | | | | | |
| | 8.7.2.13.1 | Car Enclosures | | | See 8.7.2.14 | | | |
| | 8.7.2.14 | Car Enclosures, Car Doors and Gates, and Car Illumination | | | ↓ See Below ↓ | | | |
| | | For inspection and test requirements, see 8.10.3.3.2(cc) | | | | | | |
| | 8.7.2.14.1 | Installation of New Car Enclosure | | | Major | - | | |
| | | 2.14.* | Car: Enclosure, Doors, Gates, Illumination | | | | | |
| | | 2.15. | Car Frames & Platforms | | | | | |
| | | 2.17 | Car and counterweight safeties | | | | | |
| | | 8.7.2.15.1 | Alterations to Car Frames and Platforms | | | | | |
| | 8.7.2.14.2 | Alteration to Existing Cars | | | Minor A | Minor A | | |
| | 8.7.2.14.2(a) | Car Enclosure - Securing of Enclosures | | | Minor A | Minor A | | |
| | | 2.14.1.2 | Securing of Enclosures | | | | | |
| | 8.7.2.14.2(b) | Top Emergency Exit (Altered or Added) | | | Minor B | Minor B | | |
| | | 2.14.1.5 | Top Emergency Exits | | | | | |
| | 8.7.2.14.2(c) | Installation of Glass | | | Minor B | Minor B | | |
| | | 2.14.1.8 | Glass in Elevator Cars | | | | | |
| | | 2.14.1.8.1 | Enclosures include glass | | | | | |
| | | 2.14.1.8.2 | Lining of Walls or Ceilings include glass | | | | mrr | |
| | | 2.14.1.8.3 | Marking of each Glazing Panel | | | | | |
| | 8.7.2.14.2(d) | Specific Equipment in Elevator Car | | | Minor B | Minor B | mrr | |
| | | 2.14.1.9 | Equipment Inside Cars | | | | | |
| | | (a) | Handrails | | | | | |
| | | (b) | fastening devices for protective linings | | | | | |
| | | (c) | ceiling mounted hooks/tracks | | | | | |
| | | (d) | picture frames display boards, plaques protrusion <38mm secured to 2.14.1.2 material to 2.14.2.1 | | | | | |
| | | | if max size to accommodate <= A3 paper (11"x17") | | | | mrr (not Minor B) | |
| | | (e) | conveyor tracks in freights | | | | | |
| | | (f) | heating or cooling equipment | | | | | |
| | | [8.7.2.15] | ★1, ★2 | | | | | |
| | [8.7.2.14] ★1 | ★ Car operating station | | | Minor B | Minor B | mrr | Minor B |
| | | | verify inspection operation 'if provided' | | | | | |
| | | | verify stop sw | | | | | |
| | | | verify switches operate as before (eg. FS, FEO, Access) | | | | | |
| | | [8.7.2.15] | ★1, ★2 | | | | | |
| | [8.7.2.14] ★2 | ★ video cameras / surveillance equipment / video monitors | | | Minor B | Minor B | mrr | Minor B |
| | | 2.8.2.1 | electrical equipment & wiring | | | | | |
| | | 2.14.1.2.3 | securing of enclosure equipment | | | | | |
| | | 2.14.2.4 | Headroom in Elevator Cars | | | | | |
| | | [8.7.2.15] | ★1, ★2 | | | | | |
| | [8.7.2.14] ★3 | ★ touchless or handsfree call activation | | | Minor B | Minor B | mrr | Minor B |
| | | 8.7.2.8 | Electrical Equipment, Wiring | | | | | |
| | | | Disabled during FEO operation (per risk assessment) | | | | | |

| 0 | 1 | 2a | 2b | 2c | 3 | 4 | 5 | 6 |
|-------------------------------|-------------------------|---|----|-------------------------|-----------------------------|-----------|------------------|----------------------|
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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | | | B44.1 / A17.5 schematic | | | | |
| | 8.7.2.14.2(e) | Side Emergency Exits - Secured Shut | | | Major | - | | |
| | 8.7.2.14.2(f) | Car Ventilation | | | Minor B | see below | mrr | see below |
| | | 2.14.2.3 Ventilation | | | | Minor B | | Minor B |
| | [8.7.2.14]★4 | ★ ventilation with air purification | | | | Minor A | | Minor A |
| | | 2.14.2.3 ventilation | | | | | | |
| | | if dimensions impact overhead clearances; | | | | | | |
| | | 2.4.7 Top-of-Car Clearances | | | | | | |
| | 8.7.2.14.2(g) | Car Illumination | | | Minor B | Minor B | | mrr |
| | | 2.14.7 Illumination of Cars and Lighting Fixtures | | | | | | |
| | 8.7.2.14.2(h) | Partitions Installed in Elevator Cars | | | Major | Major | | mrr Minor B |
| | | 2.16.1.2 Use of Partitions for Reducing Inside Net Platform Area | | | | | | |
| | [8.7.2.14]★5 | ★ Partitions in Elevators for High Risk Occupants | | | Minor B | Minor B | | mrr Minor B |
| | | Identification of need | | | | | | |
| | | Identification of recall level during FEO | | | | | | |
| | | Safe egress of occupants during FEO | | | | | | |
| | 8.7.2.14.2(i) | Installation of Car Door or Gate, Installation to meet: | | | Major | Major | | |
| | | 2.14.4 Passenger and Freight Car Doors/Gates, General Requirements | | | | | | |
| | | 2.14.5* Passenger Car Doors | | | | | | |
| | | 2.14.6 Freight Elevator Car Doors and Gates | | | | | | |
| | 8.7.2.14.4 | Alteration to Car Enclosure other than 8.7.2.14.2 - Enclosure Materials | | | Minor B | | | mrr |
| | | 2.14.2.1.2 flame and smoke levels | | | | | | |
| | | 2.14.2.1.3 padded protective linings | | | | | | |
| | | 2.14.2.1.4 List of items excluded from 2.14.2.1 compliance | | | | | | |
| | [8.7.2.14]★6 | ★ Installation of Vinyl Graphics - Car Interiors | | | | Minor B | | |
| | | 2.14.2.1.2 Data sheets to reflect conformance to flame and smoke levels | | | | | | |
| | 0.Reg.209/01s30 | ★ Relocation of Elevator License to remote location | | | Minor B† | - | | |
| | 8.7.2.14.5 | Addition of Car Top Railing | | | Minor B | Minor A | | - Minor A |
| | | For inspection and test requirements, see 8.10.2.3.2(rr) | | | | | | |
| | | 8.7.2.14.5.1 Installation of a Standard Railing | | | Minor B | Minor A | | - Minor A |
| | | 2.14.1.7 Railing and Equipment on Car Enclosure Top | | | | | | |
| | | 8.7.2.14.5.2 Stowable, Foldable, Collapsible | | | Minor B | Minor A | | - Minor A |
| | | (a) when stowed operation in any mode except inspection | | | | | | |
| | | (b) when fully extended operation in inspection mode only | | | | | | |
| | | (c) no operation if between stowed and extended | | | | | | |
| | | (d) positively opening switch when leaving stowed position | | | | | | |
| | | (e) positively opening switch when leaving extended position | | | | | | |
| | | (f) single failure protection | | | | | | |
| | | (g) means to prevent upward movement beyond allowed point | | | | | | |
| | | (h) when extended railing meets 2.01.2 | | | | | | |
| | | (i) force to retract not to exceed 220N (50 lbf) | | | | | | |
| | [8.7.2.14]★7 | ★ Installation of other equipment | | | | Variance | | |
| | 8.7.3.14 | Car Frames and Platforms | | | Major | - | | Major |
| | | For inspection and test requirements, see 8.10.3.3.2(dd) | | | | | | |
| | | 3.15. Car Frames & Platforms | | | | | | |
| | 8.7.3.15 | Safeties Car or Cwt (plunger gripper see 8.7.3.23.7) | | | | | | ↓ See Below ↓ |
| | 8.7.3.15.1 | Car Safeties | | | - | Major | | mrr Minor A |
| | | For inspection and test requirements, see 8.10.3.3.2(e) | | | | | | |
| | | 3.17.1 Car Safeties | | | | | | |
| | | 3.23. Guide Rails, Guide-Rail Supports, and Fastenings | | | | | | |
| | | 3.28. Layout Data | | | | | | |
| | 8.7.3.15.2 | Counterweight Safeties | | | - | Major | | mrr Minor A |
| | | For inspection and test requirements, see 8.10.3.3.2(e) | | | | | | |

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|-------------------------------|-------------------------|---|--|----|------------------------------|----------|------------------------|----------------------|
| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.3.15.3 | 3.17.2 Counterweight Safeties 3.23. Guide Rails, Guide-Rail Supports, and Fastenings 3.28. Layout Data | Alteration to existing Car or Counterweight Safeties For inspection and test requirements, see 8.10.3.3.2(e) | | Major | - | mrr | Minor A |
| | 8.7.3.16 | Governors and Governor Ropes | | | See 8.7.2.19 | | | |
| | 8.7.2.19 | Speed Governors and Governor Ropes For inspection and test requirements, see 8.10.3.3.2(f) | | | Major | Major | ↓ See Below ↓ | |
| | 8.7.2.19 | 2.18. | Speed Governors | | | | mrr | Minor A |
| | 8.7.2.19 | 2.17.15 | Governor Rope Releasing Carriers | | | | see 8.6.3.6 mrr | mrr |
| | 8.7.2.19 | Governor Ropes of different material or Construction to: 2.18.6 Design of Gov'r Rope Retarding Means for Type B Safeties 2.18.7 Traction between Speed Governor Rope & Sheave & testing to 2.17.3 Function and Stopping Distances of Safeties | | | | | see 8.6.3.9 Minor B | Minor B |
| | 8.7.3.17 | Change in Type of Service: Passenger to Freight OR Freight to Passenger For inspection and test requirements, see 8.10.3.3.2(j) | | | Major | - | | |
| | | 2.11.1(*) Entrances and Emergency Doors Required 2.11.2 Types of Entrances 2.11.3 Closing of Hoistway Doors 2.11.5 Projection of Entrances & Equip. Beyond Land'g Sills 2.11.6 Opening of Hoistway Doors 2.11.7 Glass in Hoistway Doors 2.11.8 Weights for Closing or Balancing Doors 2.12. H/W-Door Locking Devices, Elec. Contacts, H/W Access 2.13. Power Operation of Hoistway Doors and Car Doors 2.22.(*) Buffers & Bumpers 3.22.2 Counterweight Buffers 3.14. Car: Enclosure, Doors, Gates, Illumination 2.14 Car: Enclosure, Doors, Gates, Illumination 2.14.1.7.1 car top guard rail to 8.7.2.14★4 3.15. Car Frames & Platforms 2.15 Car Frames & Platforms 3.17. Car and Counterweight Safeties 2.17 Car and Counterweight Safeties 3.21. Counterweights 2.21 Counterweights 3.23. Guide Rails, Guide-Rail Supports, and Fastenings 2.23 Guide Rails, Guide-Rail Supports, and Fastenings 2.18.(*) Speed Governors 3.16. Capacity & Loading 3.18. Hydraulic Jacks 3.19. Valves, Pressure Piping, and Fittings 3.20. Ropes and Rope Connections 3.24. Hydraulic Machines and Tanks 3.25. Terminal-Stopping Devices 3.26. Operating Devices and Control Equipment 3.27. Emergency Operation and Signaling Devices 2.27 Emergency Operation & Signaling Devices as modified by 8.7.3.31.8(a) thru 8.7.3.31.8(f) 3.26.9(*)Low Oil Protection as modified in 3.27.1 thru 3.27.4 3.18.2.7(*) Plunger-Follower Guide as modified in 3.27.1 thru 3.27.4 3.27.1 PHI Emergency Recall Operation After Device Actuation (a) low oil protection | | | | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | | | (b) plunger follower guide protection (c) auxiliary power lowering (d) oil tank temperature shutdown 3.27.2 Phase 1 Emergency Recall Operation Prior to Device Actuation 3.27.3 Device Actuation at Recall Level 3.27.4 Device Actuation w/ Phase 2 In-Car Operation in Effect 2.27.1 Car Emergency Signalling Devices 2.27.2 Emergency or Standby Power systems 2.27.3 FEO: Automatic Elevators CAD 2.27.3.2.2 & CAD 2.27.3.2.4 2.27.4 FEO: Non-Automatic Elevators 2.27.5 FEO: Automatic Elevators w/Attendant 2.27.6 FEO: Inspection Operation 2.27.7 FEO: Operating Procedures 2.27.8 Switch Keys 2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC | | | | |
| | 8.7.3.18 | Change in Class of Loading: [A, B, C1, C2, C3] For inspection and test requirements, see 8.10.3.3.2(j) | | | Major | - | | |
| | | 2.16.2 | Minimum Rated Load for Freight Elevators | | | | | |
| | | 3.16. | Capacity & Loading | | | | | |
| | | 2.16.1.3 | if changing freight loading class of a passenger elevator | | | | | |
| | | | 3.16 Capacity and Loading | | | | | |
| | 8.7.3.19 | Carrying of Passengers on Freight Elevators For inspection and test requirements, see 8.10.3.3.2(j) | | | Major | - | | |
| | | 3.16.4 | 2.16.4 except 2.16.4.3 | | | | | |
| | | 2.16.4 | Carrying of Passengers on Freight Elevators | | | | | |
| | | 2.16.4.1 | not accessible to general public | | | | | |
| | | 2.16.4.2 | rated load not less than required by 2.16.1 | | | | | |
| | | 2.16.4.4 | H/W entrances to 2.12.1.1 & 2.11.2.1 or 2.11.2.2(e) | | | | | |
| | | 2.16.4.5 | car doors to 2.14.5 Passenger Car Doors | | | | | |
| | | 2.16.4.6 | car enclosure openings to 2.14.2.2 Prohibited Openings | | | | | |
| | | 2.16.4.7 | Fs for suspension ropes to Table 2.20.3 | | | | | |
| | | 2.16.4.8 | Power Operated vertical doors to 2.13.3.4 | | | | | |
| | | ★ | apron guard to ED CAD or extent pit permits | | | | | |
| | | ★ | 2.16.5 Signs Required in Freight Elevator Cars | | | | | |
| | 8.7.3.20 | Increase in Rated Load For inspection and test requirements, see 8.10.3.3.2(j) | | | Major | - | | |
| | | 2.26.1.4 | Inspection Operation | | | | | |
| | | 2.26.1.5 | Inspection Operation with Open Door Circuits | | | | | |
| | | 2.26.5 | System to Monitor & Prevent Automatic Operation w/ Faulty Door Contacts | | | | | |
| | | 3.14. | Car: Enclosure, Doors, Gates, Illumination | | | | | |
| | | | 2.14 Car: Enclosure, Doors, Gates, Illumination | | | | | |
| | | | 2.14.1.7.1 car top guard rail to [8.7.2.14]★4 | | | | | |
| | | 3.15. | Car Frames & Platforms - ★apron guard to ED CAD/as pit | | | | | |
| | | 3.16. | Capacity & Loading | | | | | |
| | | 3.17. | Car and Counterweight Safeties | | | | | |
| | | 3.20. | Ropes and Rope Connections | | | | | |
| | | 3.21. | Counterweights | | | | | |
| | | 3.22. | Buffers and Bumpers | | | | | |
| | | 3.23. | Guide Rails, Guide-Rail Supports, and Fastenings | | | | | |
| | | 8.7.3.23.4 | Increase in Working Pressure | | | | | |
| | 8.7.3.21 | Increase in Deadweight of Car (Car Wt+Rated Load >5%) For inspection and test requirements, see 8.10.3.3.2(d) | | | Major | - | | |
| | | 3.14. | Car: Enclosure, Doors, Gates, Illumination | | n/a | | | |
| | | | 2.14 Car: Enclosure, Doors, Gates, Illumination | | | | | |
| | | | 2.14.1.7.1 car top guard rail to [8.7.2.14]★4 | | | | | |
| | | 3.15. | Car Frames & Platforms - ★apron guard to ED CAD/as pit | | | | | |
| | | 3.16. | Capacity & Loading | | | | | |
| | | 3.17. | Car and Counterweight Safeties | | | | | |
| | | 3.20. | Ropes and Rope Connections | | | | | |
| | | 3.21. | Counterweights | | | | | |
| | | 3.22. | Buffers and Bumpers | | | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 3.23. | | Guide Rails, Guide-Rail Supports, and Fastenings | | | | |
| | | 8.7.3.23.4 | | Increase in Working Pressure | | | | |
| | | [8.7.2.15]★1(a) to (e) | | | | | | |
| | | [8.7.3.21]★0 | | ★ Missing Crosshead Data Tag (Tag Required) | Minor B | Minor B | | |
| | | [8.7.2.15]★0 | | | | | | |
| | | [8.7.3.21]★1 | | ★ Cumulative Increase Deadweight of Car (Less than 115 kg and Less than 5%) | Minor B | Minor B | | |
| | | [8.7.2.15]★1 | | Cumulative Increase Deadweight of Car (a) cars weighed prior to alteration | | | | |
| | | | | (c) weight change recorded on auxiliary data tag | | | | |
| | | [8.7.2.15]★1(d) | | (d) Auxiliary data tag | | | | |
| | | | | (1) date of alteration | | | | |
| | | | | (2) weight added or removed from car | | | | |
| | | | | (3) weight added or removed from cwt | | | | |
| | | | | (4) name of alteration contractor | | | | |
| | | | | (5) new final car weight following the alteration | | | | |
| | | | | (6) new percent counterweight overbalance value | | | | |
| | | | | (e) testing prior to operation to ensure security of interior finishes | | | | |
| | | [8.7.3.21]★2 | | ★ Cumulative Increase Deadweight of Car (>115 kg to 5%) | Minor A | Minor A | | |
| | | [8.7.2.15]★1 | | | | | | |
| | | [8.7.2.15]★2 | | engineering assessment of related items affected by weight change | | | | |
| | 8.7.3.22 | Change in Rise or Rated Speed | | | Major | - | | |
| | 8.7.3.22.1 | Increase or Decrease in Rise | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.3.3.2(j) | | | | | | |
| | | 3.25. | | Terminal-Stopping Devices | | | | |
| | | 3.4. | | Bottom and Top Clearances and Runbys for Cars and Cwts | | | | |
| | | 3.4.1 | | Bottom Car Clearance | | | | |
| | | 3.4.2 | | Minimum Bottom and Top Car Runby | | | | |
| | | 3.4.3 | | Car Top and Bottom Maximum Runby | | | | |
| | | 3.18.2 | | Plungers | | | | |
| | | | | If decrease in rise is at lowest end then; | | | | |
| | | 2.2.4 | | Access to Pits | | | | |
| | | 2.2.5 | | Illumination of Pits | | | | |
| | | 2.2.6 | | Stop Switches | | | | |
| | 8.7.3.22.2 | Increase in Rated Speed | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.3.3.2(j) | | | | | | |
| | | 2.5. | | Horizontal Car and Counterweight Clearances | | | | |
| | | 3.4. | | Bottom and Top Clearances and Runbys for Cars and Cwts | | | | |
| | | 3.21.1 | | Counterweights | | | | |
| | | 3.22.2(*) | | Counterweight Buffers | | | | |
| | | 3.14. | | Car: Enclosure, Doors, Gates, Illumination | | | | |
| | | 2.14. | | New doors/gates to: Car: Enclosure, Doors, Gates, Illumination | | | | |
| | | 3.17.(*) | | Car and Counterweight Safeties | | | | |
| | | 3.16. | | Capacity & Loading | | | | |
| | | 3.25. | | Terminal-Stopping Devices | | | | |
| | | 3.26.1 | | Operating Devices and Control Equipment | | | | |
| | | 3.26.2 | | Inspection Operation | | | | |
| | | 3.26.3 | | Anti-Creep and Leveling Operation | | | | |
| | | 3.26.4 | | Electrical Protective Devices | | | | |
| | | 3.26.5 | | Phase-Reversal and Failure Protection | | | | |
| | | 3.26.6 | | Control and Operating Circuits | | | | |
| | | 3.20. | | Ropes and Rope Connections | | | | |
| | 8.7.3.22.3 | Decrease in Rated Speed | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.3.3.2(j) | | | | | | |
| | | 3.4. | | Bottom and Top Clearances and Runbys for Cars and Cwts | | | | |
| | | 2.18.2 | | Tripping Speeds for Speed Governors | | | | |
| | | 3.16. | | Capacity & Loading | | | | |
| | | 3.16.3(b) | | Capacity & data plates | | | | |
| | | 2.26.4.1 | | Electrical Equipment and Wiring | | | | |
| | | 2.26.4.2 | | Drive Machine Controllers for Stopping/Starting/Controlling | | | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | | | | ⇩ See Below ⇩ | | | |
| | 8.7.3.23 | Hydraulic Equipment | | | ⇩ See Below ⇩ | | | |
| | 8.7.3.23.1 | Alter / Install / Replace Hydraulic Jacks For inspection and test requirements, see 8.10.3.3.2(n) | | | Major | - | Major | |
| | | 3.18. Hydraulic Jacks | | | | | see 8.6.3.10.1 | |
| | 8.7.3.23.2 | Alter / Install / Replace Plungers For inspection and test requirements, see 8.10.3.3.2(n) | | | Major | - | Minor A | |
| | | 3.18.1.2 Roped-Hydraulic Elevator | | | | | | |
| | | 3.18.2 Plungers | | | | | | |
| | 8.7.3.23.3 | Alter / Install / Replace Cylinders For inspection and test requirements, see 8.10.3.3.2(n) | | | Major | - | Minor A | |
| | | 3.18.3 Cylinders | | | | | see 8.6.3.10.2 | |
| | | 3.18.3 Cylinder is Altered | | | | | | |
| | | 3.18.3 Cylinder is Sleeved | | | Minor A | | | |
| | | 3.18.4.1 Metal Stops and/or Other Means | | | | | | |
| | | 3.18.1.2 Roped-Hydraulic Elevator | | | | | | |
| | | 3.18.2 Plungers | | | | | | |
| | 8.7.3.23.4 | Increase in Working Pressure >5% For inspection and test requirements, see 8.10.3.3.2(h) | | | Major | - | | |
| | | 3.18.(*) Hydraulic Jacks | | | | | | |
| | | 3.19.(*) Valves, Pressure Piping, and Fittings | | | | | | |
| | | 3.24.1 Marking Plates | | | | | | |
| | | 3.24.2 Tanks | | | | | | |
| | | 3.24.3 Atmosphere Storage and Discharge Tanks | | | | | | |
| | | 3.24.4 Welding | | | | | | |
| | 8.7.3.23.5 | Change in Location of Hydraulic Jack For inspection and test requirements, see 8.10.3.3.2(i) | | | Major | - | | |
| | | Part 3 Hydraulic Elevators | | | | | | |
| | 8.7.3.23.6 | Relocation of Hydraulic Machine (Power Unit) For inspection and test requirements, see 8.10.3.3.2(y) | | | Minor A | - | | |
| | | 3.26.8 Pressure Switch | | | | | | |
| | 8.7.3.23.7 | Plunger Gripper For inspection and test requirements, see 8.10.3.3.2(t) | | | Minor A | Minor A | | |
| | | 3.17.3 Plunger Gripper | | | | | | |
| | | 3.1.1(b) strength of pit floor | | | | | | |
| | | 3.22.1 no strike when buffers compressed | | | | | | |
| | [8.7.3.23.7] ★1 | Removal of Plunger Gripper 8.7.1.2 Level of Safety shall not be diminished | | | Minor A | - | | |
| | | 3.18.3 Cylinders | | | | | | |
| | | 3.19.4.7 Overspeed Valves | | | | | | |
| | | 3.4.2.1 Bottom Car Runby | | | | | | |
| | 8.7.3.24 | Valves, Pressure Piping, and Fittings For inspection and test requirements, see 8.10.3.3.2(o) | | | | | | |
| | 8.7.3.24 (a) | Alter / Replace Control Valves 3.19. Valves, Pressure Piping, and Fittings | | | Minor A | - | mrr Minor B see 8.6.3.11 | |
| | 8.7.3.24 (b) | Alter / Replace Relief, Check, Shutoff, Manual Lowering, or Overspeed Valve 3.19. Valves, Pressure Piping, and Fittings | | | Minor A | Minor A | mrr Minor B see 8.6.3.11 | |
| | 8.7.3.24 (c) | Supply piping is rerouted 3.19. Valves, Pressure Piping, and Fittings | | | Minor A | Minor A | Minor B see 8.6.3.11 | |
| | 8.7.3.24 (d) | Supply piping is replaced 8.6.3.11 Valves, Pressure Piping, and Fittings | | | - | - | mrr Minor B see 8.6.3.11 | |
| | 8.7.3.24 (e) | Mechanically operated valve replaced by electrically operated valve existing terminal stopping devices permitted to be retained | | | Minor A | Minor A | Minor B see 8.6.3.11 | |
| | 8.7.3.25 | Suspension Ropes and Their Connections For inspection and test requirements, see 8.10.3.3.2(ee) | | | ⇩ See Below ⇩ | | | |
| | 8.7.3.25.1 | Change in Number of, or Diameter of Ropes 3.20. Ropes and Rope Connections | | | Major | - | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | PEO to certify retained sheaves w/different ropes are satisfactory | | | | | | |
| | 8.7.3.25.1 | Change in Material / Grade of Ropes 3.20. Ropes and Rope Connections PEO to certify retained sheaves w/different ropes are satisfactory | | | Minor A | - | | |
| | 8.7.3.25.2 | Addition of Rope Equalizers 2.20.5 Suspension Member Equalizers | | | Minor B | Minor B | | |
| | 8.7.3.26 | Counterweights - Alteration of | | | See 8.7.2.22 | | | |
| | 8.7.2.22 | Counterweights | | | Minor A | - | | |
| | 8.7.2.22.1 | For inspection and test requirements, see 8.10.2.3.2(ii) For inspection and test requirements, see 8.10.3.3.2(ff) Alteration to any part of a cwt except guiding members 2.21. Counterweights 3.21. Counterweights 8.7.2.22.2 Rod Type Counterweights 8.7.2.3 Location and Guarding of Counterweights | | | | | | |
| | 8.7.2.22.2 | Rod Type Cwt - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: 2.21.2.1 Material - Cwt Frames & Rods 2.21.2.3 Factor of Safety Tie Rods: 2.21.1.2 Retention of Weight Sections | | | | | | |
| | 8.7.2.22.3 | Roller or similar guide shoes added safety jaws cannot touch rails if not activated | | | mrr | | mrr | |
| | 8.7.3.26 | Counterweights - Addition of | | | - | Major | | |
| | | For inspection and test requirements, see 8.10.3.3.2(ff) 3.4. Bottom and Top Clearances and Runbys for Cars and Cwts 3.6. Protection of Spaces below Hoistway 3.14. Car: Enclosure, Doors, Gates, Illumination 2.14 Car: Enclosure, Doors, Gates, Illumination 2.14.1.7.1 car top guard rail to [8.7.2.14]★4 3.15. Car Frames & Platforms 3.17.2 Counterweight Safeties 3.18. Hydraulic Jacks 3.20. Ropes and Rope Connections 3.21. Counterweights 8.7.3.3 Location and Guarding of Counterweights | | | | | | |
| | 8.7.3.27 | Car Buffers and Bumpers | | | Major | - | mrr | Minor B |
| | | For inspection and test requirements, see 8.10.3.3.2(c) 3.21. Counterweights 3.22.2 Counterweight Buffers existing buffers exempt from 2.22.4(*) | | | | | | |
| | 8.7.3.28 | Guide Rails, Supports, and Fastenings (alteration to, or stress increase >5%) | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.3.3.2(b) 3.23. Guide Rails, Guide-Rail Supports, and Fastenings 3.28. Layout Data | | | | | | |
| | 8.7.3.29 | Alteration to Tanks | | | Minor B | - | | Minor B |
| | [8.7.3.29]★1 | For inspection and test requirements, see 8.10.3.3.2(k) 3.24. Hydraulic Machines and Tanks ★ Addition of Oil Cooler 8.7.3.8 Electrical Wiring, Pipes, and Ducts in H/W and M/C rooms 2.7.2 Maintenance Path and Clearance 3.10. Guarding of Exposed Auxiliary Equipment | | | Minor B | | | see 8.6.3.10.4 Minor B |
| | 8.7.3.30 | Terminal-Stopping Devices | | | Minor B | Minor B | | |
| | | For inspection and test requirements, see 8.10.3.3.2(k) 3.25. Terminal-Stopping Devices | | | | | | |
| | 8.7.3.31 | Operating Devices and Control Equipment | | | ↓ See Below ↓ | | | |
| | | For inspection and test requirements, see 8.10.3.3.2(k) | | | | | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.3.31.1 | Top-of-Car Operating Devices 3.26.2 Inspection Operation see CAD 3.8.3 [8.7.2.15]★1,★2 | | | Minor A | Minor A | mrr | Minor A |
| | [8.7.3.31]★1 | Alteration / Addition of any type of inspection operation 8.7.2.27.1(a) Alteration or Addition of any type of Inspection Operation 3.26.2 Inspection Operation see CAD 3.8.3 | | | Minor A | Minor A | | |
| | [8.7.3.31]★2 | ★ Door By-Pass Switches 8.7.2.27.1(b) Alteration or Addition of Door By-Pass Switches | | | Minor A | Minor A | | |
| | 8.7.3.31.2 | Car-Leveling or Truck-Zoning Devices For inspection and test requirements, see 8.10.3.3.2(hh) 3.26.3.2 Operation in Leveling or Truck Zone | | | Minor A | Minor A | | |
| | 8.7.3.31.3 | Alter / Replace Anti-Creep Leveling Device For inspection and test requirements, see 8.10.3.3.2(ii) 3.26.3.1 Anti-Creep Operation | | | Minor B | - | | Minor B |
| | | | | | | | | see 8.6.3.10.5 |
| | 8.7.3.31.4 | Change in Power Supply For inspection and test requirements, see 8.10.3.3.2(ii) (a) voltage, frequency or # of phases or (b) AC to DC , DC to AC or (c) combination of DC & AC, then electrical to: 3.26.1 Operating Devices and Control Equipment 3.26.4 Electrical Protective Devices 3.26.5 Phase-Reversal and Failure Protection 3.26.6(*) Control and Operating Circuits | | | Major | - | | |
| | [8.7.3.31]★3 | ★ Addition of Soft Start 2.26.4.1 & 2 OESC, CSA C22.1 & B44.1 certified 3.26.5 Phase-Reversal and Failure Protection | | | | Minor A | | |
| | [8.7.3.31]★4 | ★ Addition of Power Efficiency Increasing Device B44.1 certified 2.26.4.1 & 2 OESC, CSA C22.1 & B44.1 certified | | | | Minor B | | |
| | 8.7.3.31.5 | Controllers | | | | | | |
| | 8.7.3.31.5(a) | Install / Replace Motion Controller (no change in method of Motion Control) For inspection and test requirements, see 8.10.3.3.2(s) 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9 Control and Operating Circuits 2.29. Identification | | | Major | - | | Major |
| | 8.7.3.31.5(b) | Install / Replace Operation Controller (no change in method of Operation Control) (auto to auto, non-auto to non-auto, CPPB to CPPB, etc....) For inspection and test requirements, see 8.10.3.3.2(s) 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9.3 Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices | | | Major | - | | Major |
| | 8.7.3.31.5(c) | Install / Replace Motion & Operation Controller (no change in method of either) For inspection and test requirements, see 8.10.2.3.2(s) (1) 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity | | | Major | - | | Major |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | (2) | 8.7.2.8 2.26.4.2 | Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. Listed/Certified and Labeled/Marked Ascending Car Overspeed & Unintended Car Movement Protection | | | | |
| | | (3) | 3.25. | Terminal Stopping Devices | | | | |
| | | (4) | 3.26.(*) | For Car-Switch Operation Elevators | | | | |
| | | (5) | 2.27.2* | Emergency or Standby Power System as modified by 8.7.3.31.8(b) and 8.7.3.31.8(f) | | | | |
| | | (8) | 2.29. | Identification of Equipment and Floors | | | | |
| | | (7) | 3.27.1 | Phase 1 Emergency Recall Operation after Device Actuation (a) low oil protection (b) plunger follower guide protection (c) auxiliary power lowering (d) oil tank temperature shutdown | | | | |
| | | | 3.27.2 | Phase 1 Emergency Recall Operation Prior to Device Actuation if car above recall level complete recall operation if car below recall level descend to available floor doors open and reclose in 15s | | | | |
| | | | 3.27.3 | Device Actuation at Recall Level doors open and reclose in 15s DO button remains operational visual signal is intermittent | | | | |
| | | | 3.27.4 | Device Actuation w/ Phase 2 In-Car Operation in Effect as modified by 8.7.3.31.8(c) through 8.7.3.31.8(f) | | | | |
| | | (7) | If FEO previously present or required by OBC; or provided by an alteration | | | | | |
| | | | 2.27.3 | FEO: Automatic Elevators 2.27.3.1 Phase 1 Recall Operation 2.27.3.2 Phase 1 Recall Operation by FAID's CAD 2.27.3.2.2 and CAD 2.27.3.2.4 2.27.3.3 Phase 2 Emergency In-Car Operation 2.27.3.4 Interruption of Power 2.27.3.5 Multicompartment Elevators see 8.7.1.2 safety levels shall not be diminished | | | | |
| | | | 2.27.4 | FEO: Non-Automatic Elevators | | | | |
| | | | 2.27.5 | FEO: Automatic Elevators w/Attendant | | | | |
| | | | 2.27.6 | FEO: Inspection Operation | | | | |
| | | | 2.27.7 | FEO: Operating Procedures | | | | |
| | | | 2.27.8 | Switch Keys | | | | |
| | | | 2.27.9 | Elevator Corridor Call Station Pictograph if req'd by OBC as modified by 8.7.2.28(c) through 8.7.2.28(f) | | | | |
| | | | except, | | | | | |
| | | | If FEO NOT previously present or required by OBC; as a minimum | | | | | |
| | | | 2.27.3.1 | Provide Phase 1 Manual Recall Operation Only and the level of activation shall not be diminished per 8.7.1.2. | | | | |
| | [8.7.3.31]★5 | Relocation of | 2.8.2 | Elevator Controller (if control wiring disconnected - reconnected) Electrical Equipment and Wiring Electrical testing as per the original design submission tests | Major | | | |
| | 8.7.3.31.5(d) | Installation of | 8.7.3.12 | Door Controller For inspection and test requirements, see 8.10.3.3.2(q) Electrical Equipment and Wiring | Minor A | - | | Minor B |
| | 8.7.3.31.5(e) | Installation of | 8.7.2.28 | Controller for Emergency or Standby Power Electrical Equipment and Wiring | Minor A | Minor A | | Minor B |
| | 8.7.3.31.5(e) | Installation of | 8.7.2.28 | Controller for FEO Operation Electrical Equipment and Wiring | Minor A | Minor A | | Minor B |
| | 8.7.3.31.6 | Change in Type of Motion Control | | For inspection and test requirements, see 8.10.3.3.2(r) | Major | - | | |
| | | (a) | 2.7.2 8.7.2.7.2 | Maintenance Path and Clearance Means of Access | | | | |
| | | | 2.7.9 | Lighting, Temperature and Humidity | | | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | (b) | 8.7.3.8 | Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. | | | | |
| | | (c) | 2.11.1(*) | Entrances and Emergency Doors Required | | | | |
| | | | 3.11.1(*) | Emergency Doors | | | | |
| | | | 2.11.2 | Types of Entrances | | | | |
| | | | 2.11.3 | Closing of Hoistway Doors | | | | |
| | | | 2.11.4 | Location of Horizontally Sliding or Swinging H/W Doors | | | | |
| | | | 2.11.5 | Projection of Entrances & Equip. Beyond Land'g Sills | | | | |
| | | | 2.11.6 | Opening of Hoistway Doors | | | | |
| | | | 2.11.7 | Glass in Hoistway Doors | | | | |
| | | | 2.11.8 | Weights for Closing or Balancing Doors | | | | |
| | | | 2.11.10 | Landing-Sill; Guards, Illumination, Hinged Sills, and Tracks | | | | |
| | | | 2.11.11.6 | Bottom Guides | | | | |
| | | | 2.11.11.7 | Multipanel Entrances | | | | |
| | | | 2.11.11.8 | Hoistway Door Safety Retainers | | | | |
| | | | 2.11.11.10 | Hoistway Door to Sill Clearance | | | | |
| | | | 2.11.12.8 | Pull Straps | | | | |
| | | (d) | 3.12.1(*) | H/W-Door Locking Devices, Elec. Contacts, H/W Access | | | | |
| | | | | 2.12.6 Hoistway Door Unlocking Devices | | | | |
| | | | | 2.12.7 Hoistway Access Switches | | | | |
| | | (e) | 3.13. | Power Operation of Hoistway Doors and Car Doors | | | | |
| | | (f) | 3.14.(*) | Car: Enclosure, Doors, Gates, Illumination | | | | |
| | | (g) | | 2.14.1.7 car top railing or stowable type 8.7.2.14.5.2 | | | | |
| | | (i) | 3.16. | Capacity & Loading | | | | |
| | | (h) | 3.17. | Car & Cwt Safeties | | | | |
| | | | 2.18.(*) | Speed Governors | | | | |
| | | (j) | 3.25. | Terminal Stopping Devices | | | | |
| | | (k) | 3.26.(*) | Operating Devices and Control Equipment | | | | |
| | | (m) | 2.29. | Identification of Equipment and Floors | | | | |
| | | (l) | | | | | | |
| | | (1) | 2.27.1(*) | Car Emergency Signalling Devices as modified by 8.7.2.28(a) and 8.7.2.28(f) | | | | |
| | | (2) | If FEO previously present or required by OBC; or provided by an alteration | | | | | |
| | | | 3.27. | Emergency Operation and Signaling Devices | | | | |
| | | | | 2.27 Emergency Operation & Signaling Devices as modified by 8.7.3.31.8(a) thru 8.7.3.31.8(f) | | | | |
| | | | | 3.26.9(*)Low Oil Protection as modified in 3.27.1 thru 3.27.4 | | | | |
| | | | | 3.18.2.7(*) Plunger-Follower Guide as modified in 3.27.1 thru 3.27.4 | | | | |
| | | | | 3.27.1 PHI Emergency Recall Operation After Device Actuation | | | | |
| | | | | (a) low oil protection | | | | |
| | | | | (b) plunger follower guide protection | | | | |
| | | | | (c) auxiliary power lowering | | | | |
| | | | | (d) oil tank temperature shutdown | | | | |
| | | | | 3.27.2 Phase 1 Emergency Recall Operation Prior to Device Actuation | | | | |
| | | | | 3.27.3 Device Actuation at Recall Level | | | | |
| | | | | 3.27.4 Device Actuation w/ Phase 2 In-Car Operation in Effect | | | | |
| | | | | 2.27.1(*) Car Emergency Signalling Devices | | | | |
| | | | | 2.27.2 Emergency or Standby Power systems | | | | |
| | | | | 2.27.3 FEO: Automatic Elevators CAD 2.27.3.2.2 & CAD 2.27.3.2.4 | | | | |
| | | | | 2.27.4 FEO: Non-Automatic Elevators | | | | |
| | | | | 2.27.5 FEO: Automatic Elevators w/Attendant | | | | |
| | | | | 2.27.6 FEO: Inspection Operation | | | | |
| | | | | 2.27.7 FEO: Operating Procedures | | | | |
| | | | | 2.27.8 Switch Keys | | | | |
| | | | | 2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC | | | | |
| | | | | except, | | | | |
| | | | | If FEO NOT previously present or required by OBC; as a minimum | | | | |
| | | | | 2.27.3.1 Provide Phase 1 Manual Recall Operation Only and the level of activation shall not be diminished per 8.7.1.2. | | | | |
| | 8.7.3.31.7 | Change in Type of Operation Control - CPPB, Automatic | | | Major | - | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | For inspection and test requirements, see 8.10.3.3.2(p) | | | | | | |
| | | 2.2(*) | Pits | | | | | |
| | | 2.3. | Counterweight Guarding | | | | | |
| | | 8.7.3.4 | Vertical Car and Counterweight Clearances and Runbys | | | | | |
| | | 8.7.3.5 | 8.7.2.5 Horizontal Car and Counterweight Clearances | | | | | |
| | | 2.7.2 | Maintenance Path and Clearance | | | | | |
| | | 8.7.2.7.2 | | | | | | |
| | | 2.7.5 | Working Areas Inside the Hoistway and in the Pit | | | | | |
| | | 2.7.6 | Location of Machinery/Control Spaces/Rooms and Equipment | | | | | |
| | | 2.7.9 | Lighting, Temperature, Humidity in Machinery/Control Spaces/Rooms | | | | | |
| | | 8.7.3.8 | Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs | | | | | |
| | | 2.11.1 | Entrances and Emergency Doors Required | | | | | |
| | | 2.11.2 | Types of Entrances | | | | | |
| | | 2.11.3 | Closing of Hoistway Doors | | | | | |
| | | 2.11.4 | Location of Horizontally Sliding or Swinging H/W Doors | | | | | |
| | | 2.11.5 | Projection of Entrances & Equip. Beyond Land'g Sills | | | | | |
| | | 2.11.6 | Opening of Hoistway Doors | | | | | |
| | | 2.11.7 | Glass in Hoistway Doors | | | | | |
| | | 2.11.8 | Weights for Closing or Balancing Doors | | | | | |
| | | 2.11.9 | Hoistway Door Locking Devices & Power Operation | | | | | |
| | | 2.11.10 | Landing Sill: Guards, Illumination, hinged sills, Tracks | | | | | |
| | | 2.11.11 | Entrances, Horizontal Slide Type | | | | | |
| | | 2.11.12 | Entrances, Vertical Slide Type | | | | | |
| | | 2.11.13 | Entrances, Swing Type | | | | | |
| | | 3.11.1 | Protection of Hoistway Landing Openings | | | | | |
| | | 3.12.1 | H/W-Door Locking Devices, Elec. Contacts, H/W Access | | | | | |
| | | 3.13. | Power Operation of Hoistway Doors and Car Doors | | | | | |
| | | 3.14.(*) | Car: Enclosure, Doors, Gates, Illumination | | | | | |
| | | | 2.14.1.7 car top railing or stowable type 8.7.2.14.5.2 | | | | | |
| | | 3.16. | Capacity & Loading | | | | | |
| | | 3.25. | Terminal-Stopping Devices | | | | | |
| | | 3.26.(*) | Operating Devices and Control Equipment | | | | | |
| | | 3.27. | Emergency Operation and Signaling Devices | | | | | |
| | | | 2.27 Emergency Operation & Signaling Devices | | | | | |
| | | | as modified by 8.7.3.31.8(a) thru 8.7.3.31.8(f) | | | | | |
| | | | 3.26.9(*)Low Oil Protection | | | | | |
| | | | as modified in 3.27.1 thru 3.27.4 | | | | | |
| | | | 3.18.2.7(*) Plunger-Follower Guide | | | | | |
| | | | as modified in 3.27.1 thru 3.27.4 | | | | | |
| | | | 3.27.1 PHI Emergency Recall Operation After Device Actuation | | | | | |
| | | | (a) low oil protection | | | | | |
| | | | (b) plunger follower guide protection | | | | | |
| | | | (c) auxiliary power lowering | | | | | |
| | | | (d) oil tank temperature shutdown | | | | | |
| | | | 3.27.2 Phase 1 Emergency Recall Operation Prior to Device Actuation | | | | | |
| | | | 3.27.3 Device Actuation at Recall Level | | | | | |
| | | | 3.27.4 Device Actuation w/ Phase 2 In-Car Operation in Effect | | | | | |
| | | | 2.27.1(*) Car Emergency Signalling Devices | | | | | |
| | | | 2.27.2 Emergency or Standby Power systems | | | | | |
| | | | 2.27.3 FEO: Automatic Elevators | | | | | |
| | | | CAD 2.27.3.2.2 & CAD 2.27.3.2.4 | | | | | |
| | | | 2.27.4 FEO: Non-Automatic Elevators | | | | | |
| | | | 2.27.5 FEO: Automatic Elevators w/Attendant | | | | | |
| | | | 2.27.6 FEO: Inspection Operation | | | | | |
| | | | 2.27.7 FEO: Operating Procedures | | | | | |
| | | | 2.27.8 Switch Keys | | | | | |
| | | | 2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC | | | | | |
| | [8.7.3.31]★6 | ★ Addition of Wander Patient Feature - Change in Operation Control | | | Minor B | Minor B | | |
| | | 2.11.3.2 | - doors closed when not in use | | | | | |
| | | 2.27.3.1.6(l) | - shall not prevent PHI | | | | | |
| | [8.7.3.31]★7 | ★ Addition of Restricted Access - Security / Floor Lock Out | | | Minor B | Minor B | | |
| | | OBC-3.2.6.5(4) | - shall not prevent floor access When on FEO | | | | | |
| | | D.O. Button | Remain Operative Under non FEO Conditions, Door Closed When not in Use | | | | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 2.27.3.1.6(l) | - shall not prevent PHI | | | | | |
| | | 2.27.3.3.1(i) | - permit travel to all landings when on PH II | | | | | |
| | | 2.11.6.2 | Cannot Lock Out Top& Btm, Designated & Alternate or All Landings in Phase II | | | | | |
| | [8.7.2.31]★8 | ★ Addition of Destination Dispatch 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W's &M/C Rooms FEO operation to 8.7.2.28 or code at time of installation or alteration | | | | Minor B | | |
| | 8.7.3.31.8 | Emergency Operation and Signaling Devices | | | | | | |
| | 8.7.3.31.8(a) | Car Emergency Signaling Devices For inspection and test requirements, see 8.10.3.3.2(nn) 2.27.1 Car Emergency Signaling Devices visual & audible signal permitted to be inside the car 8.7.2.8 Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs 2.26.4.2 Listed/Certified Labeled/Marked 2.29. Identification (for elevators in the same group) | | | Minor B | Minor B | | mrr |
| | 8.7.3.31.8(b) | Emergency or Standby Power For inspection and test requirements, see 8.10.3.3.2(l) 2.27.2 Emergency or Standby Power systems 8.7.2.8 Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs 2.26.4.2 Listed/Certified Labeled/Marked 2.29. Identification (for elevators in the same group) | | | Minor B | Minor A | | |
| | 8.7.3.31.8(c) | Firefighter's Emergency Operation For inspection and test requirements, see 8.10.3.3.2(m) 3.27. Emergency Operation and Signaling Devices 2.27 Emergency Operation & Signaling Devices as modified by 8.7.3.31.8(a) thru 8.7.3.31.8(f) 3.26.9(*)Low Oil Protection as modified in 3.27.1 thru 3.27.4 3.18.2.7(*) Plunger-Follower Guide as modified in 3.27.1 thru 3.27.4 3.27.1 PHI Emergency Recall Operation After Device Actuation (a) low oil protection (b) plunger follower guide protection (c) auxiliary power lowering (d) oil tank temperature shutdown 3.27.2 Phase 1 Emergency Recall Operation Prior to Device Actuation 3.27.3 Device Actuation at Recall Level 3.27.4 Device Actuation w/ Phase 2 In-Car Operation in Effect 2.27.1 Car Emergency Signalling Devices 2.27.2 Emergency or Standby Power systems 2.27.3 FEO: Automatic Elevators CAD 2.27.3.2.2 & CAD 2.27.3.2.4 2.27.4 FEO: Non-Automatic Elevators 2.27.5 FEO: Automatic Elevators w/Attendant 2.27.6 FEO: Inspection Operation 2.27.7 FEO: Operating Procedures 2.27.8 Switch Keys 2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC | | | Minor B | Minor A | | |
| | [8.7.3.31.8]★9 | ★ Emerg. Recall Upgrade - from Manual to Automatic & matching code at time of instal conformance to auto recall based on F.S. at time of install | | | | Minor B | | |
| | [8.7.3.31.8]★10 | ★ Emerg. Recall Upgrade to comply with a Fire Code Retrofit Order 2.27.3 FEO: Automatic Elevators | | | Minor B | Minor A | | |
| | 8.7.3.31.9 | Auxiliary Power Lowering Operation For inspection and test requirements, see 8.10.3.3.2(oo) 3.26.10 Auxiliary Power Lowering Operation include testing procedure | | | Minor B | Minor B | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.3.31.10 | Removal of emergency stop switch on passenger elevators For inspection and test requirements, see 8.10.3.3.2(kk) remove all related markings / engravings & provide an in-car stop switch to: 2.26.2.21 In-car stop switch 2.26.4.3 Positively Opened Contacts 2.26.9.3.1(a) single failure does not render In-Car Stop Switch ineffective 3.26.4.2 deceleration rate <1g, anticreep must still function | | | Minor B | Minor B | | |
| | 8.7.3.31.11 | Electrical Protective Devices For inspection and test requirements, see 8.10.3.3.2(ll) Alteration or Addition of an Electrical Protective Device 3.26.4 Electrical Protective Devices - for specified device | | | ↓ See Below ↓ | | mrr | Major |
| | 8.7.3.31.12 | Change of Hydraulic Pump Motor Starter - (no control valve) For inspection and test requirements, see 8.10.3.3.2(pp) Alteration or Addition of an Electrical Protective Device 3.26.6.4 requirements if no control valve 3.26.5 Phase Reversal and Failure Protection 2.8.2.1 Wiring to CSA C22.1 2.26.4.1 Wiring to CSA C22.1 2.26.4.2 listed/certified and labeled/marked | | | ↓ See Below ↓ | | mrr | Major |
| | 8.7.3.31.13 | Door Monitoring System For inspection and test requirements, see 8.10.3.3.2(mm) | | | ↓ See Below ↓ | | | |
| | 8.7.2.27.9 | Alteration or Addition of a System to Monitor faulty door contract circuits 2.26.5 System to Monitor & Prevent Automatic Operation w/ Faulty Door Contacts | | | Minor A | Minor A | | |
| | 8.7.4 | Alterations to Elevators w/other Types of Driving Machines | | | | | | |
| | 8.7.4.1 | Rack and Pinion Elevators 4.1. Rack and Pinion Elevators | | | Major | - | | |
| | 8.7.4.2 | Screw-Column Elevators 4.2. Screw-Column Elevators | | | Major | - | | |
| | 8.7.4.3 | Hand Elevators | | | Major | - | | |
| | 8.7.4.3.1 | Hoistway Enclosures and Machinery Space 4.3.1 Hoistways, H/W Enclosures, and Related Construction 4.3.4 Enclosures for Machines and Control Equipment | | | Major | - | | |
| | 8.7.4.3.2 | Top Car and Counterweight Clearances 4.3.3 Top Clearances | | | Major | - | | |
| | 8.7.4.3.3 | Hoistway Entrances 4.3.6 Hoistway Entrances 4.3.7 Hoistway Gates for Landing Openings 4.3.8 Hoistway-Door & Hoistway Gate Locking Devices | | | Major | - | | |
| | 8.7.4.3.4 | Car Enclosures 4.3.9 Car Enclosures 4.3.11 Car Frames and Platforms | | | Major | - | | |
| | 8.7.4.3.5 | Car Frame and Platform 4.3.11 Car Frames and Platforms 4.3.12 Car Compartments 4.3.13 Cars Counterbalancing One Another 4.3.16 Suspension Means | | | Major | - | | |
| | 8.7.4.3.6 | Capacity & Loading 4.3.14.1 Minimum Rated Load 4.3.14.2 Capacity Plate 4.3.19.1 Drive Machine & Sheaves - Factors or Safety 4.3.19.2 Driving-Machines 4.3.16 Suspension Means | | | Major | - | | |
| | 8.7.4.3.7 | Increase in Rise 4.3.3.1 Top Car Clearances 4.3.3.2 Top Counterweight Clearance 4.3.15 Car Safeties 4.3.16 Suspension Means | | | Major | - | | |
| | 8.7.4.3.8 | Guide Rails and Fastenings 4.3.18.1 Guide Rails - Material and Finish | | | Major | - | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 4.3.18.2 | Strength of Rails and Fastenings | | | | | |
| | | 4.3.18.3 | Extension of Guide Rails at Top & Bottom of H/W | | | | | |
| | 8.7.4.3.9 | Overhead Beams and Supports | | | Major | - | | |
| | | 4.3.5.1 | Overhead Beams and Supports | | | | | |
| | | 4.3.5.2 | Access to Machines and Sheaves | | | | | |
| | 8.7.4.3.10 | Power Attachments | | | Major | - | | |
| | 8.7.5 | Alterations to Special Application Elevators | | | | | | |
| | 8.7.5.1 | Inclined Elevators | | | Major | - | | |
| | | 5.1. | Inclined Elevators compliance to specific 5.1 sections based on alteration scope | | | variance | | |
| | 8.7.5.2 | Limited Use/Limited Application Elevators | | | See Electric or Hydraulic Elevator | | | |
| | [8.7.5.2]★1 | ★ | 8.7.2 | Alterations to Electric Elevator & as modified in Section 5.2 | | | | |
| | [8.7.5.2]★2 | ★ | 8.7.3 | Alterations to Hydraulic Elevator & as modified in Section 5.2 | | | | |
| | 8.7.5.5 | Power Sidewalk Elevators | | | Major | - | | |
| | 8.7.5.5.1 | Changes in Electrical Wiring or Electrical Equipment | | | Major | - | | |
| | | 5.5.1.8 | Equipment in Hoistways & Machine Rooms | | | | | |
| | 8.7.5.5.2 | Sidewalk Door | | | Major | - | | |
| | | 5.5.1.11.2 | Horizontal Openings in Sidewalks and Exterior Areas | | | | | |
| | | 5.5.1.11.3 | Hinged Type Swing Sidewalk Doors | | | | | |
| | | 5.5.1.11.4 | Vertical Lifting Sidewalk Covers | | | | | |
| | 8.7.5.5.3 | Change in Car Enclosure, Car Doors, and Gates | | | Major | - | | |
| | | 5.5.1.14 | Car Enclosure, Car Doors and Gates, Illumination | | | | | |
| | 8.7.5.5.4 | Bow-Irons and Stanchions | | | Major | - | | |
| | | 5.5.1.15.2 | Bow-Irons and Stanchions | | | | | |
| | 8.7.5.5.5 | Increase in Rated Load | | | Major | - | | |
| | | 5.5.1.16 | Capacity & Loading | | | | | |
| | | 5.5.1.18 | Speed Governors | | | | | |
| | | 5.5.1.21 | Buffers and Bumpers | | | | | |
| | | 5.5.1.25.4 | Maximum Rated Speed | | | | | |
| | 8.7.5.5.6 | Increase in Rated Speed | | | Major | - | | |
| | | 5.5.1.15 | Car Frames and Platforms | | | | | |
| | | 5.5.1.16 | Capacity & Loading | | | | | |
| | | 5.5.1.19 | Suspension Ropes | | | | | |
| | | 5.5.1.22 | Guide Rails | | | | | |
| | 8.7.5.5.7 | Existing Driving Machine | | | Major | - | | |
| | | 5.5.1.8 | Equipment in Hoistways & Machine Rooms | | | | | |
| | | 5.5.1.9 | Machinery and Sheave Beams, Supports, and Foundations | | | | | |
| | | 5.5.1.23 | Driving Machines and Sheaves | | | | | |
| | | 5.5.1.25 | Operating Devices and Control Equipment | | | | | |
| | 8.7.5.5.8 | Change in Type of Operating Devices and/or Control Equipment | | | Major | - | | |
| | | 5.5.1.8 | Equipment in Hoistways & Machine Rooms | | | | | |
| | | 5.5.1.25 | Operating Devices and Control Equipment | | | | | |
| | 8.7.5.6 | Rooftop Elevators | | | Major | - | | |
| | | 5.6. | Rooftop Elevators | | | | | |
| | 8.7.5.7 | Special Purpose Personnel Elevators | | | see CAN/CSA B311 | | | |
| | 8.7.6.1 | Alterations to Escalators | | | | | | |
| | 8.7.6.1.1 | Change to component parts | | | mrr | - | | mrr |
| | | | 8.6.12.4.1.1 Replacement parts or components | | | | | |
| | | | 8.6.12.4.1.2 Quality of Work | | | | | |
| | 8.7.6.1.1 | Addition of Components or Devices | | | see 8.7.6.1 | | | - |
| | | see applicable 8.7.6.1 requirements for that device | | | | | | |
| | 8.7.6.1.2 (a) | Relocation of Escalator | | | New | - | | |
| | | 6.1. | Escalators | | | | | |
| | 8.7.6.1.2 (b) | Repositioning of Escalator | | | Major | | | |
| | CAD 3.18 | ★ Repositioning of Escalator (within the same building) | | | | | | |
| | | 6.1.3.3.11 | Guard at ceiling intersection | | | | | |
| | | 6.1.3.3.12 | AntiSlide Devices | | | | | |
| | | 6.1.3.3.13 | Deck Barricades | | | | | |
| | | 6.1.3.4.3 | Guards | | | | | |
| | | 6.1.3.6.3 | Adjacent Floor Surfaces | | | | | |
| | | 6.1.3.6.4 | Safety Zone | | | | | |
| | | 6.1.3.12 | Headroom | | | | | |

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| | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | | | Type of Alteration Work | | | |
| | B44:19 Reference Number | Job Reference: | | | | Alteration | | Replacement with | |
| | | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | | Type of Submission Required | | | |
| | | | 6.1.3.13 | Welding | | | | | |
| | | | 6.1.6.9 | Signs | | | | | |
| | | | 6.1.7.4.1 | Electrical equipment | | | | | |
| | | | 8.7.6.1.3 | Protection of Floor Openings | | | | | |
| | 8.7.6.1.3 | | Protection of Floor Openings | | | Minor A | - | | |
| | | | 6.1.1. | Protection Required | | | | | |
| | 8.7.6.1.4 | | Protection of Trusses and Machinery Spaces Against Fire | | | Minor A | - | | |
| | | | 6.1.2.1 | Protection Required | | | | | |
| | 8.7.6.1.5 | | Construction Requirements | | | | | | |
| | | | For inspection and test requirements, see 8.10.4.2.2(a) | | | | | | |
| | 8.7.6.1.5(a) | | Angle of Inclination | | | Major | - | | |
| | 8.7.6.1.5(b) | | Geometry | | | Major | - | | |
| | | | 6.1.3.2 | Geometry | | | | | |
| | 8.7.6.1.5(c) | | Balustrades | | | Minor A | Minor A | | |
| | | | 6.1.3.3 | Balustrades | | | | | |
| | | | 6.1.3.3.1 | Construction | | | | | |
| | | | 6.1.3.3.2 | Strength | | | | | |
| | | | 6.1.3.3.3 | Use of Glass or Plastic | | | | | |
| | | | 6.1.3.3.4 | Interior Low Deck | | | | | |
| | | | 6.1.3.3.5 | Loaded Gap between Skirt & Step | | | | | |
| | | | 6.1.3.3.6 | Skirt Panels | | | | | |
| | | | 6.1.3.3.7 | Dynamic Skirt Panels | | | | | |
| | | | 6.1.3.3.8 | Dynamic Skirt Panel Loaded Gap | | | | | |
| | | | 6.1.3.3.9 | Step/Skirt Performance Index | | | | | |
| | | | 6.1.3.3.10 | Skirt Deflector Devices | | | | | |
| | | | 6.1.3.3.11 | Guard at ceiling intersection | | | | | |
| | | | 6.1.3.3.12 | AntiSlide Devices | | | | | |
| | | | 6.1.3.3.13 | Deck Barricades | | | | | |
| | 8.7.6.1.5(d) | | Deflector Devices | | | Minor B | | | mrr |
| | | | 6.1.3.3.10 | Skirt Deflector Devices | | | | | |
| | 8.7.6.1.6 | | Handrails or Handrail System | | | Minor A | - | | |
| | | | For inspection and test requirements, see 8.10.4.2.2(b) | | | | | | |
| | | | 6.1.3.2.2 | Geometry - Handrail | | | | | |
| | | | 6.1.3.4.1 | Handrails - Type Required | | | | | |
| | | | 6.1.3.4.2 | Extension Beyond Combplate | | | | | |
| | | | 6.1.3.4.3 | Guards (hand or finger) | | | | | |
| | | | 6.1.3.4.4 | Handrails - Splicing | | | | | |
| | | | 6.1.3.4.6 | Handrail Clearance | | | | | |
| | | | 6.1.6.3.12 | Handrail Entry Device | | | | | |
| | | | 6.1.6.4 | Handrail Speed Monitoring Device | | | | | |
| | [8.7.6.1]★1 | | ★ Addition of Handrail Advertising | | | variance | | | variance |
| | | | Variance to 6.1.6.9.2 | | | | | | |
| | [8.7.6.1]★2 | | ★ Addition of Handrail sanitation devices | | | Minor B | Minor A | mrr | Minor A |
| | | | 2.26.4.2 | Electrical equipment shall be listed/certified ; labeled/marked | | | | | |
| | | | 8.7.6.1 | General requirements or 8.7.6.2 for moving walks | | | | | |
| | | | 8.7.6.1.14 | Lighting, Access, and Electrical Work | | | | | |
| | 8.7.6.1.7 | | Step System - any alteration to the step system | | | Major | - | mrr | Minor B |
| | | | For inspection and test requirements, see 8.10.4.2.2(c) | | | | | | |
| | | | 6.1.3.3.5 | Loaded Gap Between Skirt & Step | | | | | |
| | | | 6.1.3.5 (*) | Steps | | | | | |
| | | | 6.1.3.6 (*) | Entrance and Egress Ends | | | | | |
| | | | 6.1.3.8 | Step Wheel Tracks | | | | | |
| | | | 6.1.3.9.4 | Step | | | | | |
| | | | 6.1.3.10.4 | Factor of Safety - Steps | | | | | |
| | | | 6.1.3.11 | Chains | | | | | |
| | | | 6.1.6.3.3 | Broken Step-Chain Device | | | | | |
| | | | 6.1.6.3.9 | Step Upthrust Device | | | | | |
| | | | 6.1.6.3.11 | Step Level Device | | | | | |
| | | | 6.1.6.3.14 | Step Lateral Displacement Device | | | | | |
| | | | 6.1.6.5 | Missing Step Device | | | | | |
| | 8.7.6.1.8 | | Combplates | | | Minor A | - | | |
| | | | For inspection and test requirements, see 8.10.4.2.2(L) | | | | | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 6.1.6.3.13 | Comb-Step Impact Devices | | | | | |
| | 8.7.6.1.9 | Trusses and Girders | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(d) | | | | | | |
| | | 8.7.1.4 | Welding | | | | | |
| | | 8.7.1.5 | Design | | | | | |
| | | 6.1.3.7 | Trusses of Girders | | | | | |
| | | 6.1.3.9.1 | Structural Load | | | | | |
| | | 6.1.3.10.1 | Factor of Safety - Trusses and Supporting Structures | | | | | |
| | 8.7.6.1.9 | New Escalator into Existing Trusses | | | New | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(d) | | | | | | |
| | | 6.1. | Escalators | | | | | |
| | 8.7.6.1.10 | Step Wheel Tracks | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(e) | | | | | | |
| | | 6.1.3.8 | Step Wheel Tracks | | | | | |
| | | 6.1.3.9.4 | Step | | | | | |
| | | 6.1.3.10.1 | Factor of Safety - Trusses and Supporting Structures | | | | | |
| | | 8.7.1.4 | Welding | | | | | |
| | 8.7.6.1.11 | Rated Load and Speed | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(f) | | | | | | |
| | | 6.1. | Escalators | | | | | |
| | 8.7.6.1.12 | Driving Machine, Motor, and Brake | | | | | | |
| | 8.7.6.1.12(a) | Driving Machine | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(g) | | | | | | |
| | | 6.1.3.9.2 | Machinery | | | | | |
| | | 6.1.3.10.3 | Factor of Safety - Power Transmission Parts | | | | | |
| | | 6.1.4.1 | Limits of Speed | | | | | |
| | | 6.1.5.1 | Connection Between Driving Machine and Main Drive Shaft | | | | | |
| | | 6.1.5.2 | Driving Motor | | | | | |
| | | 6.1.5.3.1 | Escalator Driving-Machine Brake | | | | | |
| | | 6.1.5.3.2 | Main Drive Shaft Brake | | | | | |
| | | 6.1.6.3.4 | Broken Drive-Chain Device | | | | | |
| | | 6.1.6.3.8 | reversal Stop Device | | | | | |
| | 8.7.6.1.12(b) | Driving Motor | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(g) | | | | | | |
| | | 6.1.3.9.2 | Machinery | | | | | |
| | | 6.1.3.10.3 | Factor of Safety - Power Transmission Parts | | | | | |
| | | 6.1.4.1 | Limits of Speed | | | | | |
| | | 6.1.5.2 | Driving Motor | | | | | |
| | | 6.1.5.3.1 | Escalator Driving-Machine Brake | | | | | |
| | | 6.1.5.3.2 | Main Drive Shaft Brake | | | | | |
| | | 6.1.6.3.2 | Escalator Speed-Monitoring Device | | | | | |
| | | 6.1.6.3.8 | reversal Stop Device | | | | | |
| | | 6.1.6.3.10 | Disconnected Motor Safety Device | | | | | |
| | 8.7.6.1.12(c) | Machine Brake | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(g) | | | | | | |
| | | 6.1.3.9.3 | Brake | | | | | |
| | | 6.1.3.10.2 | Factor of Safety - Driving Machine Parts | | | | | |
| | | 6.1.5.3.1 | Escalator Driving-Machine Brake | | | | | |
| | 8.7.6.1.13 | Operating and Safety Devices | | | Minor A | Minor A | | |
| | | For inspection and test requirements, see 8.10.4.2.2(h) | | | | | | |
| | | 6.1.6 | Operating and Safety Devices (for that device) | | | | | |
| | [8.7.6.1]★2 | ★ Removal of step demarcation lights | | | Minor A | - | | - |
| | | 6.1.3.3.5 | Loaded Gap Between Skirt & Step | | | | | |
| | | 6.1.3.5.4 | Clearance between Steps | | | | | |
| | | 6.1.3.5.5 | Slotting of Steps and Treads | | | | | |

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| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 6.1.3.5.6 | Step Demarcation | | | | | |
| | | 6.1.3.6.2 | Distinction Between Comb and Step | | | | | |
| | 8.7.6.1.14 | Lighting, Access, and Electrical Work | | | Minor B | Minor B | | |
| | | For inspection and test requirements, see 8.10.4.2.2(M) | | | | | | |
| | | 6.1.7 | Lighting, Access, and Electrical Work | | | | | |
| | 8.7.6.1.15 | Entrance and Egress | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(N) | | | | | | |
| | | 6.1.3.6.1 | Combplates | | | | | |
| | | 6.1.3.6.2 | Distinction Between Comb and Step | | | | | |
| | | 6.1.3.6.3 | Adjacent Floor Surfaces | | | | | |
| | | 6.1.3.6.4 | Safety Zone | | | | | |
| | 8.7.6.1.16 | Controller | | | Major | - | - | |
| | | For inspection and test requirements, see 8.10.4.2.2(i) | | | | | | |
| | | 6.1.6.10 | Control and Operating Circuits | | | | | |
| | | 6.1.6.11 | Electrically Power Safety Devices | | | | | |
| | | 6.1.6.12 | Installation of Capacitors.. To Make EPD's Ineffective | | | | | |
| | | 6.1.6.13 | Completion of Maintenance Circuits | | | | | |
| | | 6.1.6.14 | Escalator Manual Reset | | | | | |
| | | 6.1.6.15 | Contractors and Relays for Use in Critical Operating Circuits | | | | | |
| | | 6.1.7.4 | Electrical equipment and wiring | | | | | |
| | [8.7.6.1]★3 | ★ Controller - Replacement of 8.7.6.1.16 Controller | | | - | - | Major | |
| | [8.7.6.1]★4 | Relocation of 2.8.2 | Controller (if control wiring disconnected - reconnected) Electrical Equipment and Wiring Electrical testing as per the original design submission tests | | Major | | | |
| | [8.7.6.1]★5 | ★ Addition of Soft start for control systems built to B44-00 and later | | | - | Minor A | | |
| | | 6.1.7.4 | Electrical Equipment and Wiring | | | | | |
| | | 6.1.6.10.1 | Occurrence of a single ground | | | | | |
| | | 6.1.6.10.2 | Redundancy to be checked | | | | | |
| | | 6.1.6.10.3 | Methods used to check single failure | | | | | |
| | | for control systems built prior to B44-00 | | | | | | |
| | | 6.1.7.4 | Electrical Equipment and Wiring | | | | | |
| | [8.7.6.1]★6 | ★ Addition of Power Efficiency Increasing Device B44.1 certified 2.26.4.1 & 2 OESC, CSA C22.1 & B44.1 certified | | | - | Minor B | | |
| | 8.7.6.1.17 | Variable-Frequency Drive Motor | | | - | Minor A | - | |
| | | For inspection and test requirements, see 8.10.4.2.2(O) | | | | | | |
| | | 6.1.6.3.2 | Escalator Speed-Monitoring Device | | | | | |
| | | 6.1.6.10.3 | Methods used to check single failure | | | | | |
| | | 6.1.6.10.4 | Motors with Static control | | | | | |
| | 8.7.6.1.18 | Addition of Speed Variance | | | - | Minor A | - | |
| | | For inspection and test requirements, see 8.10.4.2.2(j) | | | | | | |
| | | 6.1.4.1.2 | Variation of the escalator speed after startup | | | | | |
| | 8.7.6.1.19 | Skirt Panels | | | Minor A | | Minor A | |
| | | 6.1.3.3.6(d) | Skirt Deflection Test and Marking/Labeling. | | | | | |
| | | 8.3.15 | Skirt Deflection Test | | | | | |
| | 8.7.6.2 | Alterations to Moving Walks | | | | | | |
| | 8.7.6.2.1 | Change to component parts | | | mrr | - | mrr | |
| | | 8.6.12.4.1.1 Replacement parts or components | | | | | | |
| | | 8.6.12.4.1.2 Quality of Work | | | | | | |
| | 8.7.6.2.1 | Addition of Components or Devices see applicable 8.7.6.2 requirements for that device | | | see 8.7.6.2 | | - | |

| 0 | 1 | 2a | 2b | 2c | 3 | 4 | 5 | 6 |
|-------------------------------|-------------------------|---|----|----|-----------------------------|----------|------------------|----------------------|
| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | 8.7.6.2.2 | Relocation of Moving Walk | | | New | - | | |
| | | 6.2. Moving Walks | | | | | | |
| | 8.7.6.2.3 | Protection of Floor Openings | | | Minor A | - | | |
| | | 6.2.1. Protection Required | | | | | | |
| | 8.7.6.2.4 | Protection of Trusses and Machinery Spaces Against Fire | | | Minor A | - | | |
| | | 6.2.2.1 Protection of Supports - Protection Required | | | | | | |
| | 8.7.6.2.5 | Construction Requirements | | | | | | |
| | | For inspection and test requirements, see 8.10.4.2.2(a) | | | | | | |
| | 8.7.6.2.5(a) | Angle of Inclination | | | Major | - | | |
| | | 6.2. Moving Walks | | | | | | |
| | 8.7.6.2.5(b) | Geometry | | | Major | - | | |
| | | 6.2.3.2 Geometry | | | | | | |
| | 8.7.6.2.5(c) | Balustrades | | | Minor A | Minor A | | |
| | | 6.2.3.3 Balustrades | | | | | | |
| | 8.7.6.2.6 | Handrails | | | Minor A | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(b) | | | | | | |
| | | 6.2.3.2.3 Geometry - Handrail | | | | | | |
| | | 6.2.3.4 Handrails | | | | | | |
| | | 6.2.6.3.10 Handrail Entry Device | | | | | | |
| | | 6.2.6.4 Handrail Speed Monitoring Device | | | | | | |
| | [8.7.6.2]★1 | ★ Addition of Handrail Advertising | | | variance | | variance | |
| | | Variance to 6.1.6.9.2 | | | | | | |
| | [8.7.6.2]★2 | ★ Addition of Handrail sanitation devices | | | Minor B | Minor A | mrr | Minor A |
| | | 2.26.4.2 Electrical equipment shall be listed/certified ; labeled/marked | | | | | | |
| | | 8.7.6.1 General requirements or 8.7.6.2 for moving walks | | | | | | |
| | | 8.7.6.1.14 Lighting, Access, and Electrical Work | | | | | | |
| | 8.7.6.2.7 | Treadway System | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(c) | | | | | | |
| | | 6.2.3.2.3 Geometry - Handrail | | | | | | |
| | | 6.2.3.3.5 Skirtless Balustrade | | | | | | |
| | | 6.2.3.3.6 Skirt Panels | | | | | | |
| | | 6.2.3.5 Pallet-Type Treadway | | | | | | |
| | | 6.2.3.6(*) Belt-Type Treadway | | | | | | |
| | | 6.2.3.8 Entrance and Egress Ends | | | | | | |
| | | 6.2.3.9 Supporting Structure | | | | | | |
| | | 6.2.3.10.4 Pallet | | | | | | |
| | | 6.2.3.11.4 Pallet Factor of Safety | | | | | | |
| | | 6.2.3.11.5 Belt Factor of Safety | | | | | | |
| | | 6.2.3.12 Chains | | | | | | |
| | | 6.2.6.3.3 Broken Treadway Device | | | | | | |
| | 8.7.6.2.8 | Combplates | | | Minor A | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(L) | | | | | | |
| | | 6.2.3.8 Entrance and Egress Ends | | | | | | |
| | | 6.2.6.3.11 Comb-Pallet Impact Devices | | | | | | |
| | 8.7.6.2.9 | Trusses and Girders | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(d) | | | | | | |
| | | 8.7.1.4 Welding | | | | | | |
| | | 8.7.1.5 Design | | | | | | |
| | | 6.2.3.9 Supporting Structure | | | | | | |
| | | 6.2.3.10.1 Structural Load | | | | | | |
| | | 6.2.3.11.1 Trusses & Supports based on max static load | | | | | | |
| | 8.7.6.2.9 | New Moving Walk into Existing Truss | | | New | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(d) | | | | | | |
| | | 6.2. Moving Walks | | | | | | |
| | 8.7.6.2.10 | Track System | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(e) | | | | | | |
| | | 6.2.3.9 Supporting Structure | | | | | | |
| | | 6.2.3.10 Rated Load | | | | | | |
| | | 6.2.3.11.1 Trusses & Supports based on max static load | | | | | | |

| 0 | 1 | 2a | 2b | 2c | 3 | 4 | 5 | 6 |
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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | 8.7.1.4 | | Welding | | | | |
| | 8.7.6.2.11 | Rated Load and Speed | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(f) | | | | | | |
| | | 6.2. | | Moving Walks | | | | |
| | 8.7.6.2.12 | Driving Machine, Motor, and Brake | | | Major | - | | |
| | 8.7.6.2.12(a) | Driving Machine | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(g) | | | | | | |
| | | 6.2.3.10.2 | | Machinery Load | | | | |
| | | 6.2.3.11.2 | | Factor of Safety for Drive Machine Parts | | | | |
| | | 6.2.3.11.3 | | Factor of Safety for Power Transmission members | | | | |
| | | 6.2.3.14 | | V-Belt Drives | | | | |
| | | 6.2.3.15 | | Headroom | | | | |
| | | 6.2.4 | | Rated Speed | | | | |
| | | 6.2.5.1 | | Connection Between Driving Machine and Main Drive Shaft | | | | |
| | | 6.2.5.3.1 | | Moving Walk Driving-Machine Brakes | | | | |
| | | 6.2.5.3.2 | | Main Drive Shaft Brake | | | | |
| | | 6.2.6.3.4 | | Broken Drive-Chain Device | | | | |
| | | 6.2.6.3.8 | | Disconnected Motor Safety Device | | | | |
| | 8.7.6.2.12(b) | Drive Motor | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(g) | | | | | | |
| | | 6.2.3.10.2 | | Machinery Load | | | | |
| | | 6.2.3.11.2 | | Factor of Safety for Drive Machine Parts | | | | |
| | | 6.2.3.11.3 | | Factor of Safety for Power Transmission members | | | | |
| | | 6.2.4 | | Rated Speed | | | | |
| | | 6.2.5.2 | | Driving Motor | | | | |
| | | 6.2.5.3.1 | | Moving Walk Driving-Machine Brakes | | | | |
| | | 6.2.6.3.2 | | Speed Governor | | | | |
| | | 6.2.6.3.7 | | Reversal Stop Device | | | | |
| | | 6.2.6.3.8 | | Disconnected Motor Safety Device | | | | |
| | 8.7.6.2.12(c) | Machine Brake | | | Major | - | | |
| | | For inspection and test requirements, see 8.10.4.2.2(g) | | | | | | |
| | | 6.2.3.10.3 | | Brake | | | | |
| | | 6.2.3.11.2 | | Factor of Safety for Drive Machine Parts | | | | |
| | | 6.2.3.11.3 | | Factor of Safety for Power Transmission members | | | | |
| | | 6.2.5.3.1 | | Moving Walk Driving-Machine Brakes | | | | |
| | | 6.2.5.3.2 | | Main Drive Shaft Brake | | | | |
| | 8.7.6.2.13 | Operating and Safety Devices | | | Minor A | Minor A | | |
| | | For inspection and test requirements, see 8.10.4.2.2(h) | | | | | | |
| | | 6.2.6 | | Operating and Safety Devices (for that device) | | | | |
| | 8.7.6.2.14 | Lighting, Access, and Electrical Work | | | Minor B | Minor B | | |
| | | For inspection and test requirements, see 8.10.4.2.2(M) | | | | | | |
| | | 6.2.7 | | Lighting, Access, and Electrical Work | | | | |
| | 8.7.6.2.15 | Controller - Installed as part of an alteration | | | Major | - | | - |
| | | For inspection and test requirements, see 8.10.4.2.2(i) | | | | | | |
| | | 6.2.6.10 | | Control and Operating Circuits | | | | |
| | | 6.2.6.11 | | Electrically Power Safety Devices | | | | |
| | | 6.2.6.12 | | Installation of Capacitors.. To Make EPD's Ineffective | | | | |
| | | 6.2.6.13 | | Completion of Maintenance Circuits | | | | |
| | | 6.2.6.14 | | Moving Walk Manual Reset | | | | |
| | | 6.2.6.15 | | Contractors and Relays for Use in Critical Operating Circuits | | | | |
| | | 6.2.7.4 | | Electrical equipment and wiring | | | | |
| | [8.7.6.2]★3 | ★ | | Controller - Replacement of | - | - | | Major |
| | | 8.7.6.1.16 | | Controller | | | | |
| | [8.7.6.2]★4 | Relocation of | | Controller (if control wiring disconnected - reconnected) | Major | | | |
| | | 2.8.2 | | Electrical Equipment and Wiring | | | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | Job Reference: | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | | | | Type of Submission Required | | | |
| | | Electrical testing as per the original design submission tests | | | | | | |
| | [8.7.6.2]★5 | ★ Addition of Soft start for control systems built to B44-00 and later 6.1.7.4 Electrical Equipment and Wiring 6.1.6.10.1 Occurrence of a single ground 6.1.6.10.2 Redundancy to be checked 6.1.6.10.3 Motors with Static control for control systems built prior to B44-00 6.1.7.4 Electrical Equipment and Wiring | | | - | Minor A | | |
| | [8.7.6.2]★6 | ★ Addition of Power Efficiency Increasing Device B44.1 certified 2.26.4.1 & 2 OESC, CSA C22.1 & B44.1 certified | | | - | Minor B | | |
| | 8.7.6.2.16 | Variable-Frequency Drive Motor For inspection and test requirements, see 8.10.4.2.2(O) 6.2.6.3.2 Escalator Speed-Monitoring Device 6.2.6.10.3 Methods used to check single failure 6.2.6.10.4 Motors with Static control | | | - | Minor A | | - |
| | 8.7.6.2.17 | Addition of Speed Variance For inspection and test requirements, see 8.10.4.2.2(j) 6.2.4.1.2 Variation of the escalator speed after startup | | | - | Minor A | | - |
| | 8.7.6.2.18 | Entrance and Egress 6.2.3.8.1 Combplates 6.2.3.8.2 Distinction Between Comb and Treadway 6.2.3.8.3 Adjacent Floor Surfaces 6.2.3.8.4 Safety Zone | | | - | Minor A | | - |
| | 8.7.6.2.19 | Skirt Panels 6.1.3.3.6(d) Skirt Deflection Test and Marking/Labeling. 8.3.15 Skirt Deflection Test | | | | Minor A | | Minor A |
| | 8.7.7 | Alterations to Dumbwaiters and Material Lifts | | | | | | |
| | 8.7.7.1 | Dumbwaiters and Material Lifts Without Automatic Transfer Devices | | | Major | - | | |
| | | Alteration to a Power and Hand Dumbwaiters | | | Major | - | | |
| | | 7.1. Power and Hand Dumbwaiters 7.2. Electric and Hand Dumbwaiters 7.3. Hydraulic Dumbwaiters | | | | | | |
| | | Alteration to a Material Lifts | | | Major | - | | |
| | | 7.4. Material Lifts | | | | | | |
| | CAD 3.9.2 | Lock and Contact upgrade to Interlock CAD 3.9.2 7.4.14* Hoistway Door Locking Devices | | | Minor A | Minor A | | |
| | 8.7.7.1.1 | General Alterations other than 8.7.7.1.2 Part 7 Dumbwaiters and Material Lifts | | | Major | - | | |
| | 8.7.7.1.2 | Increase in Rated Load 7.2.(*). Electric and Hand Dumbwaiters w/o Transfer Devices 7.3.(*). Hydraulic Dumbwaiters w/o Transfer Devices 7.4. Material Lifts 7.5. Electric Material Lifts 7.6. Hydraulic Material Lifts | | | Major | - | | |
| | 8.7.7.2 | Addition of Automatic Transfer Device Part 2 Electric Elevators Part 3 Hydraulic Elevators | | | Major | - | | |
| | 8.7.7.3.1 | Material Lifts and Dumbwaiters With Automatic Transfer Devices exempt if requirements of CAD 2.3(j) are met | | | N/A | N/A | | |
| | 8.7.7.3.2 | Material Lifts and Dumbwaiters - remove Transfer Device 7.1. to 7.3. for Dumbwaiters 7.4. to 7.6. Material Lifts w/o Transfer Devices | | | New | - | | |
| | 8.7.7.3.3 | Material Lifts altered to an Elevator | | | New | - | | |

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| Conforms to B44 Mark with 'X' | B44:19 Reference Number | Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22) Scope of Alteration - B44 - 2019 Part, Section or Requirement | | | Type of Alteration Work | | | |
| | | | | | Alteration | | Replacement with | |
| | | | | | Modification Change | Addition | Same | Different Make/Model |
| | | Job Reference: | | | Type of Submission Required | | | |
| | | Part 2 | Electric Elevators | | | | | |
| | | Part 3 | Hydraulic Elevators | | | | | |
| | 8.7.7.3.4 | Material Lift or Dumbwaiter w/ Transfer Device Altered to a D/W | | | New | - | | |
| | | 7.1. | Power and Hand Dumbwaiters w/Auto Transfer Devices | | | | | |
| | | 7.2. | Electric and Hand Dumbwaiters w/o Transfer Devices | | | | | |
| | | 7.3. | Hydraulic Dumbwaiters w/o Transfer Devices | | | | | |
| | | Alterations to Freight Platform Lifts | | | | | | |
| | [8.7.7]★1 | ★ | Alteration to a Type 'A' Freight Platform Lift | | Major | - | | |
| | | 7.4. | as applicable to Material Lifts Type 'B' + | | | | | |
| | | 7.5. | as applicable to Material Lifts Type 'B' + | | | | | |
| | | 7.6. | as applicable to Material Lifts Type 'B' + | | | | | |
| | | | + excluding requirements related to in-car operating devices & Riders | | | | | |
| | CAD 3.9.2 | Lock and Contact upgrade to Interlock | | | Minor A | Minor A | | |
| | | CAD 3.9.2 | | | | | | |
| | | 7.4.14* | Hoistway Door Locking Devices | | | | | |
| | [8.7.7]★2 | ★ | Alteration to a Type 'B' Freight Platform Lift | | Major | - | | |
| | | 7.4. | as applicable to Material Lifts Type 'B' | | | | | |
| | | 7.5. | as applicable to Material Lifts Type 'B' | | | | | |
| | | 7.6. | as applicable to Material Lifts Type 'B' | | | | | |
| | CAD 3.9.2 | Lock and Contact upgrade to Interlock | | | Minor A | Minor A | | |
| | | CAD 3.9.2 | | | | | | |
| | | 7.4.14* | Hoistway Door Locking Devices | | | | | |