

# Elevating and Amusement Devices Safety Division

Ref. No.:

296 / 22

Date:

June 10, 2022

### GUIDELINE

### 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. <u>Introduction</u>

- 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  $\frac{\text{CSA}}{\text{CSA}}$  B44 code as amended by CAD  $\frac{295}{22}$  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 (columns5&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 ( $\star$ ). This symbol is used to identify TSSA designated alterations or to identify a supplemental TSSA requirement.

### 5. Requirements for Design Submissions and Inspections

- 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 (<u>www.tssa.org</u>) 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 <u>mandatory</u> 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
s to 'X'	B44:19	Al	teration Checklist for Director's Order 296 / 22 Scope of Alteration - B44 - 2019	Alte	Type of Alter ration	T	ement with
Conforms to B44 Mark with 'X'	Reference Number		Part, Section or Requirement	Modification Change	Addition	Same	Different Make/Model
υ <u>š</u>		Job Reference:			Type of Submiss	sion Required	
	8.7.2	Alterations to E	ectric Elevators				
	8.7.2.1	Hoistway Enclosure		Major	Major		
	8.7.2.11		ing Devices, Access Switches & Parking Devices		See Be	elow 🖟	
			and test requirements, see 8.10.2.3.2(dd)				
- 4	8.7.2.11.1	Interlocks A		-	Major	mrr	Minor B
Х		2.12.1	General				
X		2.12.2 2.12.4	Interlocks Listing/Certification Locking Devices				
Х		2.12.4	Hoistway Door Unlocking Devices (n/a for column 5,6)				2/2
х	В )	2.12.7	Hoistway Access Switches (n/a for column 5,6)				n/a n/a
x		2.14.5.7	Restricted Opening of Car Doors (Interlock or Restrictor)				I/a
		2.24.8.3	Driving-Machine Brake				
×		2.24.0.3	DIVING-MACHINE BLAKE				
х	8.7.2.12	Pow er 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		<u>8.7.2.10.1</u>	Entrances & H/W Openings - General Req'mts				
x		<u>8.7.2.10.2</u>	Horizontal Slide-Type Entrances				
		<u>8.7.2.10.3</u>	Vertical Slide-Type Entrances				
Х		8.7.2.10.5	Marking of Entrance Assemblies				
х	F	<b>★</b> 2.13.	Pow er Operation of Hoistway Doors and Car Doors				
Х			or Modified components and wiring to meet:				
Х		<u>8.7.2.8</u>	Electrical Equipment, Wiring				
Х	(G)	<u>2.26.4.2</u>	Listed/Certified and Labeled/Marked B44.1/A17.5 if New				
х	[8.7.2.12] * 1	★ Replacement of D	oor Operator	-	-	mrr	Minor B
х		2.13.	Pow er Operation of Hoistway Doors and Car Doors				
х		[8.7.2.15]★1,					
	8.7.2.13		ice (Safety Edge) (Altered or Added or replaced)	Minor B	Minor B	mrr	Minor B
			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  $8.7.2.12 \pm 1$ , the other  $8.7.2.15 \pm 1$ .

Roger Neate.

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



### Elevating and Amusement Devices Safety Division

Ref. No.:

Date:

296 / 22

Director's Order

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 Code38-005 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]  $\pm$ 1, or  $\pm$ 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]  $\pm 1$  or  $\pm 2$  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  $[8.7.2.15] \pm 1$  or  $\pm 2$  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  $[8.7.2.15] \pm 1$  or  $\pm 2$  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]  $\star$ 1 or  $\star$ 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)

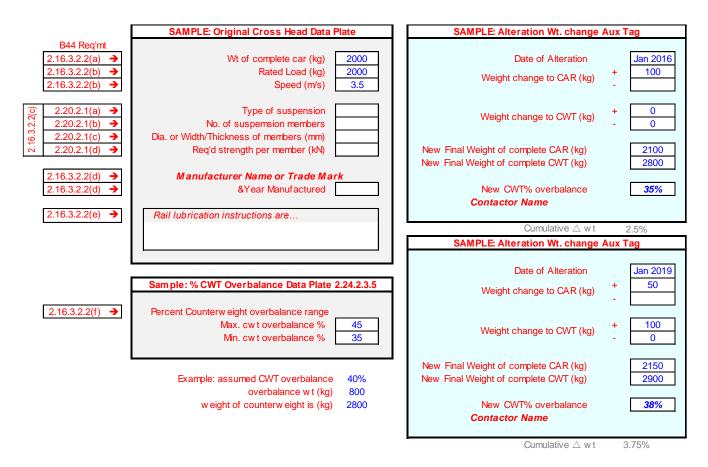
Where an alteration results in

- 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  $[8.7.2.15] \pm 1$ (a) through  $\pm 1$ (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]  $\star$ 1 or  $\star$ 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  $[8.7.2.12] \pm 1$  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  $[8.7.2.13] \pm 1$  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(I)(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] $\star$ 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

#### $[8.7.6.2] \pm 3$ Controller Replaced (226/07)

Where a controller is replaced it shall conform to 8.7.6.1.16.

#### $[8.7.6.2] \pm 4$ 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] $\pm 5$ 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

Elevating and Amusement Devices Safety Program, Technical Standards and Safety Authority 345 Carlingview Drive, Toronto, ON M9W 6N9 Tel:(416) 734-3300

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4			Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	
o B,	B44:19		(see also Guideline 296 / 22)	Alter	ration	Replace	ment with
ns t with	Reference		Scope of Alteration - B44 - 2019	Modification	A 1.00		Different
for ark	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'		Job Reference:		Т	ype of Submiss	sion Required	
	8.7.1.2	Alterations not specific	cally covered in 8.7	Contac	t Eng'g		
	0.7.1.2	-		Oontac	it Eng g		
	8.7.1.4	1.2 Welding	Level of safety shall not be diminished				
<del>                                     </del>	0.7.1.4	8.8	Welding				
		8.7.1.5	Design / Weld Engineer				
	8.7.1.7	Repairs and Replacen	9				
		8.6.2	for repairs				
		8.6.3	for replacements				
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	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				
Ш	8.7.1.9	Alterations Involving S		Minor A	Minor A		
igspace			identify scope and impact of proposed SIL alteration				
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$\vdash \vdash \vdash$	8.7.1.10	Executable Software \	/erification and Witness Test	Minor	Minor		
$\vdash \vdash \vdash$			> the following executable software for functions listed has change	Minor A	Minor A		
$\vdash$			(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				
			(I) FEO: automatic elevators (2.27.3 though 2.27.6)				
			(m) occupant evacuation operation				
			(n) emergency operation and signal devices				
			> new <b>USI</b> logged in the on-site documentation				
	8.7.2	Alterations to Ele	ectric Elevators				
	8.7.2.1	Hoistway Enclosures		Major	Major		
	8.7.2.1.1	Hoistway Enclosure W	/alls	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				
			Access Doors and Openings				
igsqcut		<b>★</b> 2.7.3.4.7				-	
		2.8.	Equipment in Hoistways, Machine or Control / Rooms or Spaces				
<b>                                     </b>		2.8. <u>8.7.2.10</u>	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance)				
	0.7.0.4.0	2.8. <u>8.7.2.10</u> 2.11.1	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W)		Nico		
	8.7.2.1.2	2.8. <u>8.7.2.10</u> 2.11.1  Addition of Elevator to	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway	-	New		
	8.7.2.1.2	2.8. <u>8.7.2.10</u> 2.11.1  Addition of Elevator to B44-2019	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway  New Installation	-	New		
		2.8. <u>8.7.2.10</u> 2.11.1  Addition of Elevator to B44-2019 2.5.	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway New Installation Horizontal Car and Counterweight Clearances	Moior			
	8.7.2.1.2 8.7.2.1.3	2.8.  8.7.2.10  2.11.1  Addition of Elevator to B44-2019  2.5.  Construction at Top of	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway  New Installation  Horizontal Car and Counterweight Clearances  f Hoistway	- Major	New Major		
		2.8. 8.7.2.10 2.11.1 Addition of Elevator to B44-2019 2.5. Construction at Top of 2.1.2.1	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway  New Installation  Horizontal Car and Counterweight Clearances  Hoistway  Construction at Top of the Hoistway	- Major			
		2.8.  8.7.2.10 2.11.1  Addition of Elevator to B44-2019 2.5.  Construction at Top of 2.1.2.1 2.1.3	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway  New Installation  Horizontal Car and Counterweight Clearances  Hoistway  Construction at Top of the Hoistway  Floor Over Hoistways	- Major			
	8.7.2.1.3	2.8.  8.7.2.10 2.11.1  Addition of Elevator to B44-2019 2.5.  Construction at Top of 2.1.2.1 2.1.3 8.7.2.4	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway  New Installation  Horizontal Car and Counterweight Clearances for Hoistway  Construction at Top of the Hoistway  Floor Over Hoistways  Vertical Car & Cwt Clearances & Runbys		Major		
		2.8. 8.7.2.10 2.11.1  Addition of Elevator to B44-2019 2.5.  Construction at Top of 2.1.2.1 2.1.3 8.7.2.4  Construction at Bottom	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway  New Installation  Horizontal Car and Counterweight Clearances of Hoistway  Construction at Top of the Hoistway  Floor Over Hoistways  Vertical Car & Cwt Clearances & Runbys of Hoistway	- Major Major			
	8.7.2.1.3	2.8.  8.7.2.10 2.11.1  Addition of Elevator to B44-2019 2.5.  Construction at Top of 2.1.2.1 2.1.3 8.7.2.4  Construction at Botton 2.1.2.2	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway  New Installation  Horizontal Car and Counterweight Clearances f Hoistway  Construction at Top of the Hoistway  Floor Over Hoistways  Vertical Car & Cwt Clearances & Runbys of Hoistway  Construction at Bottom of the Hoistway		Major		
	8.7.2.1.3	2.8.  8.7.2.10 2.11.1  Addition of Elevator to B44-2019 2.5.  Construction at Top of 2.1.2.1 2.1.3 8.7.2.4  Construction at Botton 2.1.2.2 2.1.2.3	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway  New Installation  Horizontal Car and Counterweight Clearances for Hoistway  Construction at Top of the Hoistway  Floor Over Hoistways  Vertical Car & Cwt Clearances & Runbys of Hoistway  Construction at Bottom of the Hoistway  Strength of Pit Floor		Major		
	8.7.2.1.3	2.8.	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway  New Installation  Horizontal Car and Counterweight Clearances f Hoistway  Construction at Top of the Hoistway  Floor Over Hoistways  Vertical Car & Cwt Clearances & Runbys of Hoistway  Construction at Bottom of the Hoistway  Strength of Pit Floor  Pits		Major		
	8.7.2.1.3	2.8.  8.7.2.10 2.11.1  Addition of Elevator to B44-2019 2.5.  Construction at Top of 2.1.2.1 2.1.3 8.7.2.4  Construction at Botton 2.1.2.2 2.1.2.3	Equipment in Hoistways, Machine or Control / Rooms or Spaces Entrances and Hoistway Openings (if change includes an entrance) Entrances and Emergency Doors Required (if blind H/W) Existing Hoistway New Installation Horizontal Car and Counterweight Clearances If Hoistway Construction at Top of the Hoistway Floor Over Hoistways Vertical Car & Cwt Clearances & Runbys of Hoistway Construction at Bottom of the Hoistway Strength of Pit Floor Pits Vertical Car & Cwt Clearances & Runbys		Major		

0	1	2a	2b	2c	3	4	5	6
$\vdash$				Alteration Checklist for Director's Order 296 / 22		Type of Alter		
УВ.	B44:19			(see also Guideline 296 / 22)	Alt	eration		ement with
ns to with	Reference			Scope of Alteration - B44 - 2019	Modification	Ĭ		Different
forn	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'		Jok	Reference:			Type of Submiss	sion Required	
	8.7.2.2	Pits	see other altera	ations below for non Major Alterations	Major	-		
	0.7.2.2	1 110		and test requirements, see 8.10.2.3.2(x)	iviajoi			
	8.7.2.1.2	Altera	tion to Pits					
			2.2.	Pits				
			2.1.2.3	Strength of Pit Floor				
			<u>8.7.2.4</u>	Vertical Car & Cwt Clearances & Runbys				
	8.7.2.1.2	Pit Dra	ains & Sumps		Minor B	Minor B		
			2.2.2.	Pit Drains				
	8.7.2.1.2	Pit Gu			Minor B	Minor A		
			2.2.3	Guards Between Adjacent Pits				
	8.7.2.1.2	Pit Ac		Div. A	Minor B	Minor A		
	0.7040	Dia III.	2.2.4	Pit Access	MinarD	Mines D		
	8.7.2.1.2	Pit IIIu	mination	Illumination of Dita	Minor B	Minor B		
	8.7.2.1.2	Dit Ct	2.2.5 op Switches	Illumination of Pits	Minor B	Minor A		
	0.1.2.1.2	1 11 310	2.2.6	Stop Switches	WILLIOL D	WIII IOI A		
	8.7.2.1.2	Pit De		Clop Cantoliou	Minor B	Minor A		
			2.2.7	Minimum Pit Depths Required				
	8.7.2.1.2	Acces	s to Underside	·	Minor B	Minor A		
			2.2.8	Access to Underside of Car				
	8.7.2.2.2	Additio	on of surface-mo	ounted sump pump	-	Minor B		
			2.4.1	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 <sup>3</sup> /h (3000 gal/h) single or multiple h/w				
	8.7.2.3	Locati		g of Counterweights	Major	Major		
			•	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				
	0.7.0.4	\/~"+:~	2.6.	Protection of Space below H/W	Maian			
	8.7.2.4	vertic		nterweight Clearances and Runbys (no reduction allowed) and test requirements, see 8.10.2.3.2(y)	Major	-		
			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	Horizo	ontal Car and Co	ounterweight Clearances (no reduction allowed)	Major	-		
			For inspection	and test requirements, see 8.10.2.3.2(z)				
			2.5.	Horizontal Car and Counterweight Clearances				
			<u>8.7.2.17.2</u>	Increase in Rated Speed				
	8.7.2.6	Protec		Below Hoistways	Minor B	Major		
				and test requirements, see 8.10.2.3.2(aa)				
	0.7.0.7	N 4 = 1 .	2.6.	Protection of Space below H/W		П О В	eless n	
	8.7.2.7	iviachi		achine Rooms Control Spaces and Control Rooms and test requirements, see 8.10.2.3.2(bb)			elow ↓	
	8.7.2.7.1	Enclos		and test requirements, see 8.10.2.3.2(bb) In specifics of 8.7.2.7.2 to 8.7.2.7.7				
	J. 7 . Z. 7 . 1	L110103	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	ajoi		
			OESC	Electrical Equipment Clearances	Minor B	_		
	8.7.2.7.2	Means	s of Access	Licothodi Equipment Oledianices	Minor B	-		
		moant	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	Acces	s Doors and Op		Minor B	Minor B	n	nrr
			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	Headr	oom (no reduction		Minor B	Minor B		
			2.7.4	Headroom in Machine Rooms/Spaces, Control Room/Spaces				
	8.7.2.7.5	Windo	ows and Skylight		Minor B	Minor B		
			2.1.5	Windows and Skylights				
	8.7.2.7.6	Lightir	ng (no reduction)		Minor B	Minor A		
			2.7.9.1	Lighting				
	8.7.2.7.7	Ventila	ation		Minor B	Minor B		

0	1	2a	2b	2c	3	4	5	6
				Alteration Checklist for Director's Order 296 / 22		Type of Altera		
9 ×	B44:19			(see also Guideline 296 / 22)	Alte	eration	Replace	ement with
s to with	Reference			Scope of Alteration - B44 - 2019	Modification			Different
ark	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	Number	Job	Reference:			Type of Submiss	ion Required	
Ť			2.7.9.2	Temperature & Humidity		71		
	[8 7 2 7] ★1			quipment Guarding	Minor A	Minor A	mrr	mrr
	[0.7.2.7] × 1		2.7.2	Maintenance Path and Clearance	WIII IOI 7 C	WILLION 7 C		
		` '	2.7.3.4.2	Size of doors and openings in cage style enclosures (750x2030)				
		` '	2.10.1	Guarding of Equipment				
		(d)	2.10.1	openable/removable only with tools				
		(e)		operating/work instruction for accessing equipment				
		(f)		clearances in front of electrical control equipment (1000mm)				
		(.)		or clearance required at time of original control installation				
		(g)		access in front of / space to operate main disconnect (1000mm),				
		(9)		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	(-)	cal Equipment.	Wiring, Pipes, and Ducts in H/W's &M/C Rooms	Minor B	Minor B	mrr	Minor B
				and test requirements, see 8.10.2.3.2(cc)				
			•	ectrical equipment, wiring, raceways, cables, pipes, ducts)	_	Minor B		
				n 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				
		Alterati	on of Existing	(electrical equipment, wiring, raceways, cables, pipes, ducts)	Minor B	_		
			2.8.	Equipment in Hoistways, Machine or Control / Rooms or Spaces				
				1.1				
	[8.7.2.8]★1	(	Change in Driv	re (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 <b>not</b> previously provided (Minor A)				Minor A
	8.7.2.9			e Beams, Supports, and Foundations	Major	Major		
				ninery & Sheave Beams, Supports, Foundation				
		:	2.9.	Machinery & Sheave Beams, Supports, Foundation				
				adequacy of building structure verified by P.Eng.				
			-	reased by more than 5%				
		:	2.9.	Machinery & Sheave Beams, Supports, Foundation				
				adequacy of building structure verified by P.Eng.				
	8.7.2.10		ces and Hoistw		Major	Major	see	below
	8.7.2.10.1		al Requirement		Major	-		
				and test requirements, see 8.10.2.3.2(o)				
	8.7.2.10.1(a)		•	s - All New Entrances	Major	=	Major	Major
			2.11.	Protection of H/W Openings				
				LIVA Door Looking Dovings Floo Contacts LIVA Access				
		:	2.12.	H/W-Door Locking Devices, Elec. Contacts, H/W Access				
		:	2.12. 2.13.	Power Operation of Hoistway Doors and Car Doors				
		:	2.13.	Power Operation of Hoistway Doors and Car Doors 2.13.5.3 Detection of Approaching Objects				
		:		Power Operation of Hoistway Doors and Car Doors				

0	1	2a 2b	2c	3 4	5 6
4 .		-	Alteration Checklist for Director's Order 296 / 22	Type of Alter	ation Work
ë X	B44:19		(see also Guideline 296 / 22)	Alteration	Replacement with
ns t witl	Reference		Scope of Alteration - B44 - 2019	Modification	Different
forr	Number		Part, Section or Requirement	Change Addition	Same Make/Model
Conforms to B44 Mark with 'X'		Job Reference:		Type of Submiss	sion Required
	8.7.2.10.1(b)	General Requirement	s - New Entrances w/Existing Entrances	- Major	
	0(2)	2.11.2	Types of Entrances	aje.	
		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 installat			
	•	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		
		2.10.	2.13.5.3 Detection of Approaching Objects		
		2.14.5.7	Restricted Opening of Car Doors (Interlock or Restrictor)		
		2.14.5.7	Identification of Floors		
	8 7 2 10 1(a)			Major	
	8.7.2.10.1(c)		s - Alteration to H/W Entrance	Major -	
		2.11.3 2.11.5	Closing of Hoistway Doors		
			Projection of Entrances & Equip. Beyond Land'g Sills		
		2.11.7	Glass in Hoistway Doors		
		2.11.8	Weights for Closing or Balancing Doors		
	-	<u>8.7.2.10.5</u>	Marking of Entrance Assemblies		
		Entire installati			
		2.12.	H/W-Door Locking Devices, Elec. Contacts, H/W Access		
		2.13.	Power Operation of Hoistway Doors and Car Doors		
		0.4457	2.13.5.3 Detection of Approaching Objects		
		2.14.5.7	Restricted Opening of Car Doors (Interlock or Restrictor)		
	0.7.0.40.47.1	2.29.2	Identification of Floors		
	8.7.2.10.1(d)		s - Emergency Doors (added or altered)	Major Major	
		2.11.1	Entrances and Emergency Doors Required		
	0 = 0 (0 (())	<u>8.7.2.10.5</u>	Marking of Entrance Assemblies		
	8.7.2.10.1(e)		s - Access Openings (installed for cleaning)	Major Major	
		2.11.1.4	Access Opening for Cleaning of Car & H/W Enclosure		
		<u>8.7.2.10.5</u>	Marking of Entrance Assemblies		
	070400	Harizantal Clida Tuna	Entranges new entrange and companents to most:	Major Major	aga balaw
	8.7.2.10.2		Entrances - new entrance and components to meet: and test requirements, see 8.10.2.3.2(o)	Major Major	see below
<del>                                     </del>		8.7.2.10.1	Entrances & H/W Openings - General Req'mts		Major
		<u>8.7.2.10.1</u> 2.11.11	Entrances & How Openings - General Requires  Entrances, Horizontal Slide Type		iviajoi
			components to meet:		
	sills (a)	2.11.10.1	Landing-Sill Guards	Minor B	Minor B
	Silis (a)	2.11.10.1	Landing Sills	IVIII IOI D	IVIIIIVI D
		2.11.11.1	Bottom Guides		
	hanger /track (b)	2.11.11.0		Minor B	Minor B
1	frame (c)	2.11.11.2	Hanger Tracks, and Track Supports  Entrance Frames	Minor A	Minor A
	name (c)	2.11.11.5	Panel Overlap	IVIII IOI A	IVIII IOI A
		2.11.11.5.1	Panel Gaps Clearances		
		2.11.11.5.2	Pockets in Strike Jamb		
			Marking of Entrance Assemblies		
<b>-</b>	hangers (d)	<u>8.7.2.10.5</u> 2.11.11.4	Marking of Entrance Assemblies  Hangers	Minor B	Minor B
	panels (e)		Panels	Minor A	Minor A
	parieis (e)	2.11.11.5(*) 2.11.11.6	Bottom Guides	IVIITIOI A	IVIIIIVI A
		2.11.11.0	Multipanel Entrances		
		8.7.2.10.5	Marking of Entrance Assemblies		
<u> </u>	retainers (f)	8.7.2.10.5 2.11.11.8	Marking of Entrance Assembles  Hoistway Door Safety Retainers	Minor B	Minor B
	retairiers (I)	۷.۱۱.۱۱.0	Holistway Dool Salety Netallie18	IVIIIIUI D	IVIIIIUI D

Alteration Checklist for Director's Order 296 / 22  B44:19 Reference  Alteration Checklist for Director's Order 296 / 22  Scope of Alteration - B44 - 2019  Alteration Replacement with Modification Addition Addition Scope Different	0	1	2a 2b	2c	3	4	5	6
8,72.10.3   Vertical-Slide-Type Entrances - new entrance and components to meet:   Major Major   See below   For imperation and sets requirements, see   8,102.3.2(a)   8,72.10.1   Entrances   8,102.0.2(b)   8,72.10.1   Entrances   8,102.0.2(b)   8,72.10.1   Entrances   8,102.0.2(b)   Entrances   8,102.0.2(b)   Entrances   8,102.0.2(b)   Entrances	$\vdash$	·	20 20		, and the second			
8,72.10.3   Vertical-Slide-Type Entrances - new entrance and components to meet:   Major Major   See below   For imperation and sets requirements, see   8,102.3.2(a)   8,72.10.1   Entrances   8,102.0.2(b)   8,72.10.1   Entrances   8,102.0.2(b)   8,72.10.1   Entrances   8,102.0.2(b)   Entrances   8,102.0.2(b)   Entrances   8,102.0.2(b)   Entrances	₩.×	B44:10			Alte	ration	Replace	ment with
8,72.10.3   Vertical-Slide-Type Entrances - new entrance and components to meet:   Major Major   See below   For imperation and sets requirements, see   8,102.3.2(a)   8,72.10.1   Entrances   8,102.0.2(b)   8,72.10.1   Entrances   8,102.0.2(b)   8,72.10.1   Entrances   8,102.0.2(b)   Entrances   8,102.0.2(b)   Entrances   8,102.0.2(b)   Entrances	s to	_			Modification			Different
8,72.10.3   Vertical-Slide-Type Entrances - new entrance and components to meet:   Major Major   See below   For imperation and sets requirements, see   8,102.3.2(a)   8,72.10.1   Entrances   8,102.0.2(b)   8,72.10.1   Entrances   8,102.0.2(b)   8,72.10.1   Entrances   8,102.0.2(b)   Entrances   8,102.0.2(b)   Entrances   8,102.0.2(b)   Entrances	투			·		Addition	Same	Make/Model
8,72.10.3   Vertical-Slide-Type Entrances - new entrance and components to meet:   Major Major   See below   For imperation and sets requirements, see   8,102.3.2(a)   8,72.10.1   Entrances   8,102.0.2(b)   8,72.10.1   Entrances   8,102.0.2(b)   8,72.10.1   Entrances   8,102.0.2(b)   Entrances   8,102.0.2(b)   Entrances   8,102.0.2(b)   Entrances	onf Ma	Number	lah Dafaranası	. ,		Turns of Culturalism	ion Dominod	
For inspection and test requirements, see 8.10.2.3.2(a)   8,72.10.1	0							
S.7.2.10.1 Entrances & HW Openings - General Regrims   Lining		8.7.2.10.3	• • • • • • • • • • • • • • • • • • • •	·	Major	Major	see	below
2.11.12								
Installed New components to meet:							Ma	ajor
Sills (a)   2.11.10.3   Hinged Hoistway Landing Sills   Minor B   Minor B   Minor B   2.11.12.1   Landing Sills   Entrances Frames   Minor B   Minor A   Minor B   M								
Traines (b)   21.11.2.1   Landring Sills   Marking of Entrance Frames   Minor B   Minor B								
		sills (a)			Min	or B	Mir	nor B
B.7.2.10.5   Marking of Entrance Assemblies   mrr								
rails (c)   2.11.12.3   Rails		frames (b)			Min	or B	Mir	nor B
panels (d)   2.11.12.4   Panels   2.11.12.5   Guides   2.11.12.5   Guides   2.11.12.6   Culciverweighting or Counterbalancing   2.11.12.8   Culciverweighting or Counterbalancing   2.11.12.8   Culciverweighting or Counterbalancing   2.11.12.8   Culciverweighting or Counterbalancing   2.11.12.8   Culcivers   2.11.12.8   Culcivers   2.11.12.9   Culcivers   2.11.12.								
2.11.12.4   Panels   2.11.12.5   Cudes   2.11.12.6   Countervelghing or Counterbalancing   2.11.12.6   Countervelghing or Counterbalancing   2.11.12.8   Pull Straps   Pull Straps   Gudes   2.11.12.8   Pull Straps   Gudes   2.11.12.7   Gudes   G								
2.11.12.5   Guides   2.11.12.6   Counterweighting or Counterbalancing   2.11.12.6   Counterweighting or Counterbalancing   2.11.12.6   Counterweighting or Counterbalancing   2.11.12.6   Pull Straps   S.7.2.10.5   Marking of Entrance Assemblies   mrr		panels (d)			Mir	or A	Mir	or A
2.11.12.6   Countervelighting or Counterbalancing   2.11.12.8   Pull Straps   8.72.10.5   Marking of Entrance Assemblies   2.11.12.7   Suides   mrr			2.11.12.4					
2.11.12.8			2.11.12.5					
3.7.2.10.5   Marking of Entrance Assemblies				· · ·				
Section   Sect				•				
Sill guard ()   2,11,12,7   Sill Guards   Straps								
Straps (g)   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)					n	nrr	n	nrr
For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1		straps (g)	2.11.12.8	Pull Straps				
For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1								
B.7.2.10.1		8.7.2.10.4			Major	Major	see	below
2.11.13   Entrances, Swing Type   Installed New components to meet:								
Installed New components to meet:   2.11.10.1							Ma	ajor
Sills (a)   2.11.10.1   Landing-Sill Guards   2.11.10.3   Hinged Hoistway Landing Sills   2.11.13.1   Landing Sills   2.11.13.1   Landing Sills   2.11.13.2   Entrance Frames   Minor B								
Canal Companies   Canal Comp		sills (a)	-		Min	or B	Mir	or B
Internation   Companies   Co								
2.11.13.4 Hinges panels (c) 2.11.13.3 Panels 2.11.13.4 Hinges 2.11.13.5 Marking of Entrance Assemblies  2.11.13.4 Hinges 2.11.13.5 Marking of Entrance Assemblies  8.7.2.10.5 Marking of Entrance Assemblies  8.7.2.10.5 Marking of Entrance Assemblies  8.7.2.10.5 Marking of Entrance Assemblies  [8.7.2.10.5 Marking of Entrance Assemblies (Alteration to an Entrance or Door Panel) Fire Protection Rating not less then existing entrance a.7.2.10.5(a) labeled per NBCC requirements    [8.7.2.10] * * Removing Service To a Floor Bolt entrances shut Remove Interlock From Safety String Remove COP Floor Button 2.11.6.2 Cannot Lock Out TopfBtm, 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] * * Door Safety Retainers   [8.7.2.11] Hoistway Door-Locking Devices, Access Switches & Parking Devices   Roman Company								
B.7.2.10.5   Marking of Entrance Assemblies   Minor B   Minor B		frames (b)	_		Min	or B	Mir	or B
panels (c)  2.11.13.3 Panels 2.11.13.5 Marking 3.7.2.10.5 Marking of Entrance Assemblies hinges (d)  2.11.13.4 Hinges  Marking of Entrance Assemblies hinges (d)  2.11.13.4 Hinges  Marking of Entrance Assemblies Fire Protection Rating not less then existing entrance 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 Bolt entrances shut 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  8.7.2.11 Hoistway Door-Locking Devices, Access Switches & Parking Devices For inspection and test requirements, see 8.10.2.3.2(dd) Interlocks 2.12.1 General 2.12.2 Interlocks 2.12.4 Listing/Certification Locking Devices 2.12.7 Hoistway Access Switches (n/a for column 5,6) 7.2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)				•				
2.11.13.4 Hinges 2.11.13.5 Marking 8.7.2.10.5 Marking of Entrance Assemblies  8.7.2.10.5 Marking of Entrance Assemblies  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  **Removing Service To a Floor 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 2.11.11.8 Hoistway Door Safety Retainers  8.7.2.11 Hoistway Door-Locking Devices, Access Switches & Parking Devices For inspection and test requirements, see 8.10.2.3.2(dd) Interlocks 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) 2.12.7 Hoistway Access Switches (n/a for column 5.6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)								
2.11.13.5 Marking 8.7.2.10.5 Marking of Entrance Assemblies  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  [8.7.2.10]*1 * Removing Service To a Floor Bolt entrances shut Remove Interlock From Safety String Remove COP Floor Button 2.11.6.2 Cannot Look Out Top/Btm, Designated/Altemate, 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 2.11.11.8 Hoistway Door Safety Retainers  8.7.2.11 Hoistway Door-Locking Devices, Access Switches & Parking Devices For inspection and test requirements, see 8.10.2.3.2(dd) Interlocks 2.12.1 General 2.12.2 Interlocks 2.12.4 Listing/Certification Locking Devices 2.12.6 Hoistway Access Switches (n/a for column 5,6) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		panels (c)			Mir	or B	Mir	nor B
8.7.2.10.5 Marking of Entrance Assemblies  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 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  Minor B  Major Minor B Minor Minor B Minor B Minor B Minor B Minor B				=				
S.7.2.10.5   Marking of Entrance Assemblies (Alteration to an Entrance or Door Panel)   Fire Protection Rating not less then existing entrance   S.7.2.10.5(a)   labeled per NBCC requirements   Major   Major   Major				•				
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  **Removing Service To a Floor Bolt entrances shut 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 2.11.11.8 Hoistway Door Safety Retainers  8.7.2.11 Hoistway Door-Locking Devices, Access Switches & Parking Devices For inspection and test requirements, see 8.10.2.3.2(dd)  1.1.1.1 Interlocks 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) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.12.4.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		1.1						
Fire Protection Rating not less then existing entrance 8.7.2.10.5(a) labeled per NBCC requirements  * Removing Service To a Floor  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  2.11.11.8 Hoistway Door Safety Retainers  8.7.2.11 Hoistway Door-Locking Devices, Access Switches & Parking Devices  For inspection and test requirements, see 8.10.2.3.2(dd)  Interlocks  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) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		ninges (a)	2.11.13.4	Hinges	n	nrr	n	nrr
Fire Protection Rating not less then existing entrance 8.7.2.10.5(a) labeled per NBCC requirements  * Removing Service To a Floor  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  2.11.11.8 Hoistway Door Safety Retainers  8.7.2.11 Hoistway Door-Locking Devices, Access Switches & Parking Devices  For inspection and test requirements, see 8.10.2.3.2(dd)  Interlocks  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) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		0 7 0 40 5	Mantelan of Entrance	New year (Alteredian to an Entered as Dean Board)	N 4 - 1	N.A.dan		
8.7.2.10]★1  **Removing Service To a Floor  Bolt entrances shut 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 2.11.11.8 Hoistway Door Safety Retainers  8.7.2.11 Hoistway Door-Locking Devices, Access Switches & Parking Devices For inspection and test requirements, see 8.10.2.3.2(dd)  Interlocks  2.12.1 General 2.12.2 Interlocks 2.12.4 Listing/Certification Locking Devices (n/a for column 5,6) 2.12.6 Hoistway Door Unlocking Devices (n/a for column 5,6) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		8.7.2.10.5	warking of Entrance A	· ·	iviajor	iviajor		
[8.7.2.10] *1			0.7.0.40.5(-)					
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  8.7.2.11 Hoistway Door-Locking Devices, Access Switches & Parking Devices  For inspection and test requirements, see 8.10.2.3.2(dd)  8.7.2.11.1 Interlocks  2.12.1 General 2.12.2 Interlocks 2.12.4 Listing/Certification Locking Devices 2.12.4 Listing/Certification Locking Devices (n/a for column 5,6) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		[0.7.0.40] ± 4			N #:	or B		
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 2.11.11.8 Hoistway Door Safety Retainers  2.11.11.8 Hoistway Door Safety Retainers    Minor B   Minor A   mrr   Minor B		[0.7.∠.10] ★1	A INCHIONING Service		IVIII	ם וטו		
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  2.11.11.8 Hoistway Door Safety Retainers    **Boor Safety Retainers								
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  *** Door Safety Retainers 2.11.11.8 Hoistway Door Safety Retainers  *** B.7.2.11  *** Hoistway Door-Locking Devices, Access Switches & Parking Devices  *** For inspection and test requirements, see 8.10.2.3.2(dd)  *** Interlocks  *** See Below *** Major  *** Major  *** Minor B  *** See Below *** Major  *** Major  *** Minor B  *** See Below *** Major  *** Major  *** Minor B  *** All Landing in Phase II 2.12.1				, ,				
2.12.7 H/W Access Switches - if floor was previously the access location  [8.7.2.10] *2 * Door Safety Retainers  ** Door Safety Retainers  2.11.11.8 Hoistway Door Safety Retainers  ** Minor B Minor A mrr Minor B  ** See Below **  ** Major mrr Minor B  ** Minor B  ** See Below **  ** See Below **  ** See Below **  ** See Below **  ** Major mrr Minor B  ** See Below **  ** Major mrr Minor B  ** Minor B  ** See Below **  ** Major mrr Minor B  ** See Below **  ** Major mrr Minor B  ** See Below **  ** Major mrr Minor B  ** Minor B  ** See Below **  ** Major mrr Minor B  ** Minor B  ** See Below **  ** Major mrr Minor B  ** Minor B  ** See Below **  ** Major mrr Minor B  ** Minor B  ** See Below **  ** Major mrr Minor B  ** Min			2 11 6 2					
[8.7.2.10] *2				·				
8.7.2.11 Hoistway Door-Locking Devices, Access Switches & Parking Devices  For inspection and test requirements, see 8.10.2.3.2(dd)  8.7.2.11.1 Interlocks  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) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		r9 7 2 401±2			Minor P	Minor A	mrr	Minor P
8.7.2.11 Hoistway Door-Locking Devices, Access Switches & Parking Devices  For inspection and test requirements, see 8.10.2.3.2(dd)  8.7.2.11.1 Interlocks  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) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		[0.7.2.10] * 2	·		IVIIIIIII D	WIIIOI A	11111	IVIIIIOI D
8.7.2.11.1  For inspection and test requirements, see 8.10.2.3.2(dd)  Interlocks  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) 2.12.7 Hoistway Access Switches (n/a for column 5,6)  2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)			2.11.11.0	Holstway Door Salety Retainers				
8.7.2.11.1  For inspection and test requirements, see 8.10.2.3.2(dd)  Interlocks  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) 2.12.7 Hoistway Access Switches (n/a for column 5,6)  2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		07244	Hojotway Door Lastin	og Dovigoo Aggoog Switches & Dovigo Dovigo			oloví T	
8.7.2.11.1 Interlocks  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) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		0.7.2.11					FIOM 4	
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) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)	-	070444		and test requirements, see 6.10.2.3.2(dd)		Moior	mrr	Minor D
2.12.2 Interlocks 2.12.4 Listing/Certification Locking Devices 2.12.6 Hoistway Door Unlocking Devices (n/a for column 5,6) 2.12.7 Hoistway Access Switches (n/a for column 5,6) 2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)		0.7.2.11.1		General	-	iviajui	11111	IVIII IUI D
2.12.4 Listing/Certification Locking Devices  2.12.6 Hoistway Door Unlocking Devices (n/a for column 5,6)  2.12.7 Hoistway Access Switches (n/a for column 5,6)  2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)								
2.12.6 Hoistway Door Unlocking Devices (n/a for column 5,6)  2.12.7 Hoistway Access Switches (n/a for column 5,6)  2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)								
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)				o o				1/2
2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)								
							n	ı/a
2.24.8.3 Driving-Machine Brake								
			2.24.8.3	Driving-iviachine Brake				

0	1	2a	2b	2c	3	4	5	6
-					-	Type of Altera		-
₽ ×	D44-40			Alteration Checklist for Director's Order 296 / 22	Alte	ration		ment with
s to	B44:19			(see also Guideline 296 / 22) Scope of Alteration - B44 - 2019	NA	ĭ		D:#t
Ęž	Reference			Part, Section or Requirement	Modification Change	Addition	Same	Different Make/Model
Conforms to B44 Mark with 'X'	Number			rait, occion of requirement				
ŭ		Job	Reference:			Type of Submiss	sion Required	
	8.7.2.11.2	Mecha	anical 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				
				3 ,				
	8.7.2.11.3	Parkin	g Devices		Minor A	Minor A		
			8.7.2.11.3	requirements specified				
	8.7.2.11.4	Acces		Unlocking Devices				
	8.7.2.11.4 (a)		on of Unlocking	9	_	Minor B	n	nrr
	0.7.2.11.4 (a)	raditio	2.12.6	Hoistway Door Unlocking Devices		WIIITOT B		
			2.24.8.3	Driving-Machine Brake				
			2.24.0.3	Diving-Machine Brake				
	9 7 2 11 1 (h)	۸ طط <del>انا</del> :	on of Access Sw	vitchos		Minor A		orr
	8.7.2.11.4 (b)	Auditio			-	IVIII IOI A	ľ	nrr
			2.12.7	Hoistway Access Switches  Proking System and Driving Machine Brake				
			2.24.8	Braking System and Driving-Machine Brake				
			2.26.1.4	Inspection Operation				
	8.7.2.11.5	Restri	cted Opening of I	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		
				, , ,				
	8.7.2.12	Power	Operation of Ho	pistway Doors (Addition / Alteration to Power Open or Close)	Minor A	Minor A		
				and test requirements, see 8.10.2.3.2(a)				
			8.7.2.10.1	Entrances & H/W Openings - General Reg'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				
				r 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				
	[0.7.0.40]+4	4 De	nla same at at Da	Ont				MinarD
	[8.7.2.12]★1	× Ke	placement of Do		-	-	mrr	Minor B
			2.13.(*)	Power Operation of Hoistway Doors and Car Doors				
				2.13.5.3 Detection of Approaching Objects if not previously provided	ed I			
				2.13.5.5 Self Monitoring if not previously provided				
			•	2.13.5.6 Maintenance Testing if not previously provided				
			[8.7.2.15]★1,★	2				
	0 = 0 :0			(O-f-ty-E-law) (A-lab. 1	NA: 5	14: 5		N/i 5
	8.7.2.13	Door F		ce (Safety Edge) (Added or Part of an Alteration)	Minor B	Minor B		Minor B
				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 &II at time of instal	l			
		Door F	Reopening Device	ce (Safety Edge) (Replacement - Mech-Mech or Elec to Elec)			mrr	mrr
			, ,	no change in detection features				ee
								5.3.8
		Door F	Reopening Devic	ce (Safety Edge) (Replacement - Mech-Elec or 2D Elec to 3D Elec)			-	Minor B
		20011	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 &II at time of instal	I			

0	1	2a	2b	2c	3	4	5	6
4 .				Alteration Checklist for Director's Order 296 / 22		Type of Altera		
S to	B44:19			(see also Guideline 296 / 22)	Alte	eration	Replace	ement with
ms wit	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
Conforms to B44 Mark with 'X'	Number			Part, Section or Requirement	Change	Hadition	Carrio	Make/Model
ვ _		Job	Reference:			Type of Submiss	sion Required	ı
	8.7.2.14	Car Er	nclosures, Car D	Poors and Gates, and Car Illumination		See Be	elow 🖟	
			For inspection	and test requirements, see 8.10.2.3.2(ff)				
	8.7.2.14.1	Installa	ation of New Ca		Major	-		
			2.14.*	Car: Enclosure, Doors, Gates, Illumination				
			2.15.	Car Frames & Platforms				
			2.17	Car and counterweight safeties				
	8.7.2.14.2	A Itarat	8.7.2.15.1 tion to Existing (	Alterations to Car Frames and Platforms	Minor A	Minor A		
			-	ring of Enclosures	Minor A	Minor A		
	0.7.2.14.2(a)	Cai Li	2.14.1.2	Securing of Enclosures	WIIIIOI A	WIIIIOI A		
	8.7.2.14.2(b)	Top E		Altered or Added)	Minor B	Minor B		
	(5)		2.14.1.5	Top Emergency Exits				
	8.7.2.14.2(c)	Installa	ation 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)	Specif	ic Equipment in		Minor B	Minor B	r	nrr
<u> </u>			2.14.1.9	Equipment Inside Cars				
			` '	Handrails				
				fastening devices for protective linings ceiling mounted hooks/tracks				
				picture frames display boards, plaques				
			(u)	protrusion <38mm				
				secured to 2.14.1.2				
				material to 2.14.2.1				
				if max size to accommodate A3 paper (11"x17")	mrr (no	t Minor B)		
			(e)	conveyor tracks in freights				
			(f )	heating or cooling equipment				
			[8.7.2.15]★1,★	weight additions <115kg and <5%				
						=		
	[8.7.2.14]★1	* Ca	r 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] <b>±</b> 1 <b>±</b>	weight additions <115kg and <5%				
			[0.7.2.10] ~ 1, ~	weight additions 1 rong and 1070				
	[8.7.2.14]★2	★ vide	eo cameras / su	rveillance 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,★	weight additions <115kg and <5%				
	to = 0 ( := :							
	[8.7.2.14]★3	★ tou		free call activation	Minor B	Minor B	mrr	Minor B
			<u>8.7.2.8</u>	Electrical Equipment, Wiring				
				Disabled during FEO operation B44.1 / A17.5				
				schematic				
				553				
	8.7.2.14.2(e)	Side E	Emergency Exits	- Secured Shut	Major	-		
			entilation		Minor B	see below	mrr	see below
			2.14.2.3	Ventilation		Minor B		Minor B
	[8.7.2.14]★4	★ ver	ntilation with air p	purification	Mir	nor A		Minor A
			2.14.2.3	ventilation				
				if dimensions impact overhead clearances;				
				2.4.7 Top-of-Car Clearances				
	0.7.0.44.64.	o		weight additions <115kg and <5%	N/i -	N.		
	8.7.2.14.2(g)	Car Illi	umination	Illumination of Care and Linking Fintures	Minor B	Minor B	r	nrr
	9 7 2 14 2/b)	Dortit!	2.14.7	Illumination of Cars and Lighting Fixtures	Maior	Meior	m **	Minor D
	8.7.2.14.2(h)	rantitio	ons Installed in I 2.16.1.2	Lievator Cars Use of Partitions for Reducing Inside Net Platform Area	Major	Major	mrr	Minor B
				weight additions <115kg and <5%				
			[0.7.2.10] * 1, *	moight additions < Floring and <570				

0	1	2a 2b	2c	3	4	5	6
4 -		-	Alteration Checklist for Director's Order 296 / 22		Type of Altera	tion Work	
о У.	B44:19		(see also Guideline 296 / 22)	Alte	eration	Replace	ment with
ns t wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
for	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'		Job Reference:			Type of Submiss	ion Required	
	[8.7.2.14]★5	★ Partitions in Eleva	tors 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				
		[8.7.2.15] * 1,7	weight additions <115kg and <5%				
	8.7.2.14.2(i)	Installation of Car Do	or 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				
		A.I			_		
	8.7.2.14.4		losure other than 8.7.2.14.2 - Enclosure Materials	Mi	nor 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] <del>*</del> 6	★ Installation of Viny	d Graphics - Car Interiors	Mi	nor B		
	[0.7.2.14] \ 0	2.14.2.1.2	Data sheets to reflect conformance to flame and smoke levels	1411	nor B		
		2.14.2.1.2	Data sheets to renest comornance to hame and smoke levels				
	O.Reg.209/01s30	★ Relocation of Elev	ator License to remote location	Minor B†	_		
	8.7.2.14.5	Addition of Car Top F	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 2.10.2				
			(i) force to retract not to exceed 220N (50 lbf)				
	[8.7.2.14]★7	★ Installation of other	er equipment	Vai	riance		
	[0.1.1.1.1.]						
	8.7.2.15	Car Frames and Plat	forms		See Be	elow 🖟	
	8.7.2.15.1	Alterations to Car Fra		Major	-	M	ajor
		For inspection	and test requirements, see 8.10.2.3.2(qq)				
		2.15.	Car Frames & Platforms				
	[8.7.2.15]★0		d 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				

0	1	2a 2b	2c	3	4	5	6
4			Alteration Checklist for Director's Order 296 / 22		Type of Altera		
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replace	ment with
ms K wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
nfor Mari	Number		Part, Section or Requirement	Change			Make/Model
ပိ		Job Reference:			Type of Submiss	ion Required	
	[8.7.2.15]★1	<b>★ Cumulative Decre</b>	ease Deadweight <5%	Minor B	Minor B		
	[8.7.2.15]★1	★ Cumulative Increa	ase Deadweight of Car (Less than 115 kg and Less than 5%)	Minor B	Minor B		
			(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				
			(c) tooking prior to operation to choose occurry or interior inherior				
	[8.7.2.15]★2	★ Cumulative Increa	ase Deadweight of Car (>115 kg to 5%)	Minor A	Minor A		
	[]	[8.7.2.15]★1					
		• •	sessment of related items affected by weight change				
	8.7.2.15.2	Cumulative Increase	or Decrease in Deadweight of Car (Car Wt+Rated Load> 5%)	Major	-		
			and test requirements, see 8.10.2.3.2(d)				
		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.(*) 2.23.	Buffers & Bumpers Car & Cwt Guides Rails, Guide Rail Support, Fastenings				
		2.23. 2.24.(*)	Driving Machines & Sheaves				
		8.7.2.9	Machinery and Sheave Beams, Supports, Foundations				
		[8.7.2.15]★1(a)					
		[0=0]	, (-)				
	8.7.2.16	Capacity, Loading, an	d Classification			elow 🖟	
	8.7.2.16.1	Change in Type of Se	rvice: Passenger to Freight OR Freight to Passenger	Major	-		
			and test requirements, see 8.10.2.3.2(q)				
		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 2.11.7	Opening of Hoistway Doors Glass in Hoistway Doors				
		2.11.7 2.11.8	Weights for Closing or Balancing Doors				
		2.11.6	H/W-Door Locking Devices, Elec. Contacts, H/W Access				
		2.12.	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					
		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	<u>l</u> )			
			(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				
		0.04 (*)	(c) if strength detection altered or added, then per 2.20.8.4				
<u> </u>		2.24.(*)	Driving Machines & Sheaves				
		2.25.	Terminal Stopping Devices				
		2.26.	Operating Devices and Control Equipment			<u> </u>	

ification nange	Type of Alterration  Addition  Type of Submis	Replace Same	Different Make/Model
ification nange	Addition	Same	Different Make/Model
nange			Make/Model
1			
	Type of Submis	sion Required	
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		2d 20	·	3	Type of Alter		0
8 ×	D44.40		Alteration Checklist for Director's Order 296 / 22	Alte	ration		ement with
ફ	B44:19		(see also Guideline 296 / 22)				1
rr ×	Reference		Scope of Alteration - B44 - 2019 Part, Section or Requirement	Modification Change	Addition	Same	Different Make/Model
Conforms to B44 Mark with 'X'	Number		Tary occurry or requirement				
ŭ		Job Reference:			Type of Submiss	sion Required	
	8.7.2.17	Change in Rise or Ra		Major	-		
		•	and test requirements, see 8.10.2.3.2(n)				
	8.7.2.17.1	Increase or Decrease		Major	-		
		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				
$\vdash$	8.7.2.17.2	Increase in Rated Sp	eed	Major	_		
	8.7.2.17.2 8.7.2.17.2(a)		eed on a Winding Drum machine	Major	_		
	5.7.2.17.2(a)	orodoc iii italed op	Increase in Rated Speed of a winding drum m/c prohibited	iviajui			
		8.7.2.17.2(c)	except as permitted 8.7.2.17.2(c)				
	8.7.2.17.2(b)		eed except as per 8.7.2.17.2(c)	Major	_		
	0111211112(2)	2.4.2	Minimum Bottom Runby for Counterweighted Elevators	ajo:			
		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				
	8.7.2.17.2(c)	Increase in Rated Sp	eed less than 10% & less than 0.20m/s	Major	-		
			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			Ī	
		<u>8.7.2.27.3</u>	Change in Power Supply				
	8.7.2.17.3	Decrease in Rated S		Major	-		
		2.4.	Vertical Clearances & Runbys for Cars & Cwts				
		2.18.2	Tripping Speeds for Speed Governors				
		2.16.	Capacity & Loading			Ī	
		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				

For inspection and test requirements, see 8.10.2.3.2(gg)	Replacement with  Same  Different Make/Mod
8.7.2.18	Same Different Make/Moor Sion Required  See Below The mrr Minor American Minor Minor American Minor American Minor Mi
8.7.2.18	sion Required  USee Below  mrr Minor  mrr Minor
8.7.2.18	mrr Minor A
8.7.2.18	Mrr Minor A
For inspection and test requirements, see 8.10.2.3.2(e)  8.7.2.18.1  New Car Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors 2.23.(r) Car & Cwt Guides Rails, Guide Rail Support, Fastenings 8.7.2.18.2  New Cwt Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.18.2  New Cwt Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors 2.23. Car & Cwt Guides Rails, Guide Rail Support, Fastenings 8.7.2.18.3  Existing Car Safeties 2.17. (r) Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.18.3 Existing Car Safeties 2.19. Speed Governors and Governor Ropes  8.7.2.18.3 Existing Cwt Safeties 2.17. Car & Cwt Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.18.3 Existing Cwt Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.19 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 Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.19 Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.19 Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.19 Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.19 Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.19 Covernor Ropes of different material or Construction to: 2.18. Speed Governor Rope Releasing Mans for Type B Safeties 2.18. Tirction between Speed Governor Rope & Sheave 8. 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) For inspection and test requirements, see 8.10.2.3.2(gg) 2.19. Ascending Car Overspeed & Unintended Car Movement Protection  8.7.2.21 Suspension Means and Their Connections For inspection and test requirements, see 8.10.2.3.2(gg)	mrr Minor A
For inspection and test requirements, see 8.10.2.3.2(e)  8.7.2.18.1  New Car Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors 2.23.(r) Car & Cwt Guides Rails, Guide Rail Support, Fastenings 8.7.2.18.2  New Cwt Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.18.2  New Cwt Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors 2.23. Car & Cwt Guides Rails, Guide Rail Support, Fastenings 8.7.2.18.3  Existing Car Safeties 2.17. (r) Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.18.3 Existing Car Safeties 2.17. (r) Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.18. 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 Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.19 Speed Governors and Governor Ropes  8.7.2.19 Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  8.7.2.19 Speed Governors Ropes Governor Ropes  8.7.2.19 Covernor Ropes of different material or Construction to: 2.18. Speed Governor Rope Relaasing Maans for Type B Safeties 2.18. Tiraction between Speed Governor Rope & Sheave 8. 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) For inspection and test requirements, see 8.10.2.3.2(gg) 2.19. Ascending Car Overspeed & Unintended Car Movement Protection  8.7.2.21 Suspension Means and Their Connections For inspection and test requirements, see 8.10.2.3.2(gg) 2.19. Ascending Car Overspeed & Unintended Car Movement Protection	mrr Minor <i>i</i>
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8.7.2.18.2 Speed Governors and Governor Ropes  New 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  8.7.2.18.3 Existing Car Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  Existing 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  Existing Cwt Safeties 2.17. Car & Cwt Safeties 2.17. Car & Cwt Safeties 2.18. Speed Governors and Governor Ropes  Existing Cwt Safeties 2.19. Speed Governors and Governor Ropes  8.7.2.19 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  8.7.2.19 Speed Governors Ropes  8.7.2.19 Car & Cwt Guides Rails, Guide Rail Support, Fastenings 8.7.2.19 Speed Governor Ropes 8.7.2.19 Speed Governor Ropes  8.7.2.19 Speed Governor Ropes  8.7.2.19 Car & Cwt Guides Rails, Guide Rail Support, Fastenings 8.7.2.19 Speed Governor Ropes 8.7.2.19 Car & Cwt Speed Governor Ropes 8.7.2.19 Car & Cwt Speed Governor Ropes 8.7.2.19 Speed Governor Ropes 8.7.2.19 Car & Cwt Speed Governor Ropes 8.7.2.20 Ascending Car Overspeed and Unintended Car Movement Protection (ACO & UCM) For inspection and test requirements, see 8.10.2.3.2(gg) 2.19 Ascending Car Overspeed & Unintended Car Movement Protection 8.7.2.21 Suspension Means and Their Connections For inspection and test requirements, see 8.10.2.3.2(gg)	mrr Minor <i>i</i>
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Description of the Control of the Co	
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
8.7.2.21.2 Addition of Suspension Member Equalizers 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	0.0.3.2
8.7.2.21.4(a) Traction Loss Detection Minor A Minor A 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 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	

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44				Alteration Checklist for Director's Order 296 / 22		Type of Alter		
Conforms to B44 Mark with 'X'	B44:19			(see also Guideline 296 / 22)	Alte	eration	Replace	ement with
ms wit	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
nfor Mari	Number			Part, Section or Requirement	Change			Make/Model
ပိ		Job	Reference:			Type of Submiss	sion Required	I
	8.7.2.22	Counte	erweights		Minor A	-	_	
			For inspection a	and test requirements, see 8.10.2.3.2(ii)				
	8.7.2.22.1		Alteration to any	y 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 -					
				Minimum of 2 suspension and 2 tie rods				
			2.21.2.1	Suspension rods: Material - Cwt Frames & Rods				
			2.21.2.1	Factor of Safety				
			2.21.2.3	Tie Rods:				
			2.21.1.2	Retention of Weight Sections				
	8.7.2.22.3			r guide shoes added		mrr	r	nrr
$\vdash$				not touch rails if not activated			'	
			ja.10 odi1					
	8.7.2.23	Car an	d Counterweigh	at Buffers and Bumpers	Major	-	mrr	Minor B
				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	-		
				and test requirements, see 8.10.2.3.2(b)				
			2.23.	Car & Cwt Guides Rails, Guide Rail Support, Fastenings				
	8.7.2.25		Machines and					
		Alter /	Replace	Driving Machines & Sheaves	Major	Major	M	ajor
	8.7.2.25.1(a)			Driving Machine Installed as part of an alteration	Major	-		
				and test requirements, see 8.10.2.3.2(r)				
			2.7.2	Maintenance Path and Clearance				
			2.9.	to extent existing installation permits				
			2.9.	Machinery & Sheave Beams, Supports, Foundation 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)		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				
$\vdash \vdash$			For inspection a	and test requirements, see 8.10.2.3.2(h)				
$\vdash$			For inconstitution	If driving-machine brake is altered				
$\vdash \vdash$	8 7 2 25 1(a)			and test requirements, see 8.10.2.3.2(v) Driving Machine Sheave	Major		mrr	Major
	8.7.2.25.1(c)	Chang	2.24.2	Sheaves and Drums	Major	-	mrr	Major
			2.24.3	Factor of Safety for Driving Machines and Sheaves				
$\vdash$			2.24.4	Fasteners Transmitting Load				
			2.20.	Suspension Means & Their Connections				
				and test requirements, see 8.10.2.3.2(w)				
	8.7.2.25.2			Driving Machine	Major	-		
		_		Driving Machine w/ no change in Rise	Major	-		
	` ,	_		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			1	
			2.7.9	Lighting, Temperature and Humidity				

0	1	2a	2b	2c	3	4	5	6
4			1	Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	
9 K	B44:19			(see also Guideline 296 / 22)	Alter	ation	Replace	ment with
ns to with	Reference			Scope of Alteration - B44 - 2019	Modification		_	Different
forn ark	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	rtuilibo.	Job	Reference:		ī	ype of Submiss	sion Required	
Ĕ				Equipment in Heighways Machine or Central / Rooms or Spaces		) F		
			2.8 2.9.	Equipment in Hoistways, Machine or Control / Rooms or Spaces				
			-	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)				
	8.7.2.25.2(b)	_		Driving Machine w/ change in Rise	Major	-		
			•	and test requirements, see 8.10.2.3.2(i)				
			8.7.2.25(a)	all items from above				
			<u>8.7.2.17.1</u>	Increase or Decrease in Rise				
	[8.7.2.25]★1			orm and/or gear (specify make)	-	-	mrr	Minor A
			2.24	specify compliance to the applicable requirements				
		Addition	on of Machine G	Guarding - see CAD [8.7.2.7]★1				
	8.7.2.26		nal-Stopping De		Minor B	Minor B		
			For inspection a	and test requirements, see 8.10.2.3.2(k)				
			2.25.	Terminal Stopping Devices				
	8.7.2.27	Operat	ting Devices and	d Control Equipment			elow 🖟	
			For inspection a	and test requirements, see 8.10.2.3.2(jj)				
	8.7.2.27.1	Inspec	tion Operation a	and Inspection Operation with Open Door Circuits				
	8.7.2.27.1(a)	Alterat	tion or Addition of	of any type of Inspection Operation	Minor A	Minor A	mrr	Minor A
	, ,		2.26.1.4	Inspection Operation				
				see CAD 3.8.3				
			[8.7.2.15] ★1,★	2				
	8.7.2.27.1(b)	Alterat	tion or Addition of	of Door By-Pass Switches	Minor A	Minor A		
	, ,		2.26.1.5	Inspection Operation with Open Door Circuits				
	8.7.2.27.2	Car-Le	eveling or Truck-	-Zoning Devices	Minor A	Minor A		
			For inspection a	and test requirements, see 8.10.2.3.2(kk)				
			2.26.1.6	Operation in Leveling or Truck Zone				
	8.7.2.27.3	Chang	je in Power Sup	ply	Major	-		
		_		and test requirements, see 8.10.2.3.2(II)	·			
				quency or # of phases or				
			(b) AC to DC, I					
				of DC & AC, then				
		electric						
			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				
$\vdash$			2.26.10	Absorption of Regenerated Power				
				nent and wiring to:				
			2.26.4.1	Electrical Equipment and Wiring				
			2.26.4.1	Drive Machine Controllers for Stopping/Starting/Controlling				
$\vdash$								
			2.26.4.3	Positively Opened Contacts				
		brakes		Droking Customs & Driving Manking Dooley				
			2.24.8	Braking Systems & Driving Machine Brakes				
			2.26.8	Release and Application of Driving-Machine Brakes				
			g drum to:	Additional Devices for March Devices				
			2.25.3.5	Additional Req'mts for Winding Drum Machines				
				see 8.7.2.17.2(b) Increase in Rated Speed				

B44:19  Reference Number  Alteration Checklist for Director's Order 296 / 22  Alteration  (see also Guideline 296 / 22)  Scope of Alteration - B44 - 2019  Part, Section or Requirement  Alteration  Anteration  A	Addition	Replace Same sion Required	ment with  Different Make/Model
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   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)   2.7.2   Maintenance Path and Clearance	Addition	Same sion Required	Different Make/Model
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   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)   2.7.2   Maintenance Path and Clearance		sion Required	Make/Model
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   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)   2.7.2   Maintenance Path and Clearance		sion Required	
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   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)   2.7.2   Maintenance Path and Clearance	of Submiss		
S.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   Install / Replace   Operation Controller (no change in method of Operation Control (auto to auto, non-auto, CPPB to CPPB, etc)   For inspection and test requirements, see 8.10.2.3.2(s)   2.7.2   Maintenance Path and Clearance	-	Ma	ajor
Section   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   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)   2.7.2   Maintenance Path and Clearance	-	Ma	ajor
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  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)  2.7.2 Maintenance Path and Clearance	-		
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  8.7.2.27.4(b) Install / Replace Operation Controller (no change in method of Operation Control (auto to auto, non-auto, CPPB to CPPB, etc)  For inspection and test requirements, see 8.10.2.3.2(s)  2.7.2 Maintenance Path and Clearance	-		
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  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) 2.7.2 Maintenance Path and Clearance	-		
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  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) 2.7.2 Maintenance Path and Clearance	-		
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  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) 2.7.2 Maintenance Path and Clearance	-		
2.19(*) ACU and UCM Protection 2.26.9 Control and Operating Circuits 2.29. Identification  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) 2.7.2 Maintenance Path and Clearance	-		
2.26.9 Control and Operating Circuits 2.29. Identification  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) 2.7.2 Maintenance Path and Clearance	-		
2.29. Identification  8.7.2.27.4(b) Install / Replace Operation Controller (no change in method of Operation Control) Major (auto to auto, non-auto to non-auto, CPPB to CPPB, etc)  For inspection and test requirements, see 8.10.2.3.2(s)  2.7.2 Maintenance Path and Clearance	-		
8.7.2.27.4(b) Install / Replace Operation Controller (no change in method of Operation Control) Major (auto to auto, non-auto to non-auto, CPPB to CPPB, etc)  For inspection and test requirements, see 8.10.2.3.2(s)  2.7.2 Maintenance Path and Clearance	-		
(auto to auto, non-auto, CPPB to CPPB, etc)  For inspection and test requirements, see 8.10.2.3.2(s)  2.7.2 Maintenance Path and Clearance	-		
(auto to auto, non-auto, CPPB to CPPB, etc)  For inspection and test requirements, see 8.10.2.3.2(s)  2.7.2 Maintenance Path and Clearance		1.4	nior
For inspection and test requirements, see 8.10.2.3.2(s) 2.7.2 Maintenance Path and Clearance		IVI	ajor
2.7.2 Maintenance Path and Clearance			
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) Major	-	Ma	ajor
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.			
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 System to Monitor & Prevent Automatic Operation w/ Faulty Door Cont	acts		
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 2.36.11 Car Platform to Heightway Door Sills Vertical Distance			
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 <u>8.7.2.28(f)</u>			
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			

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4 .				Alteration Checklist for Director's Order 296 / 22		Type of Altera		
8 년 2 명 조	B44:19			(see also Guideline 296 / 22)	Alte	ration	Replace	ment with
ms c wit	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
Conforms to B44 Mark with 'X'	Number			Part, Section or Requirement	Change	7 iddition	Gaille	Make/Model
ပိ		Jok	Reference:			Type of Submiss	ion Required	
			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 pre	eviously 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.				
	107007144	D .						
	[ 8.7.2.27]★1	Reloc		Elevator Controller (if control wiring disconnected - reconnected)	Major			
-			2.8.2	Electrical Equipment and Wiring				
-				Electrical testing to verify functionality of rewired equipment				
	9 7 2 27 4(4)	Inctall	ation of	Door Controller	Minor A		N /I: ~	or B
	8.7.2.27.4(d)	ııısıall		and test requirements, see 8.10.2.3.2(u)	IVIIIIOI A	-	IVIIII	OI D
$\vdash$			8.7.2.12	Electrical Equipment and Wiring				
			0.7.2.12	Licothoai Equipment and Willing				
	8.7.2.27.4(e)	Install	ation of	Controller for Emergency or Standby Power	Minor A	Minor A	Min	or B
			8.7.2.28	Electrical Equipment and Wiring			IVIIII	
				3				
	8.7.2.27.4(e)	Install	ation of	Controller for FEO Operation	Minor A	Minor A	Min	or B
	, ,		8.7.2.28	Electrical Equipment and Wiring				
	8.7.2.27.5	Chang	ge in Type of Mo	tion Control - AC, VVVF, DC, SCR	Major	-		
			For inspection	and test requirements, see 8.10.2.3.2(t)				
		(a)	2.7.2	Maintenance Path and Clearance				
			<u>8.7.2.7.2</u>	Means of Access				
			2.7.9	Lighting, Temperature and Humidity				
		(b)	<u>8.7.2.8</u>	Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R.				
		(c)	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 Opening of Hoistway Doors				
-			2.11.6					
			2.11.7 2.11.8	Glass in Hoistway Doors Weights for Closing or Balancing Doors				
			2.11.9	Hoistway Door Locking Devices & Power Operation				
			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)	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)	0.40.0(*)	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.(*)	Car & Cwt Safeties				
$\vdash$		(i)	2.18.(*)	Speed Governors				
		(j)	2.19. 2.25.	Ascending Car Overspeed & Unintended Car Movement Protection Terminal Stopping Devices	l			
		(k) (l)	2.25. 2.26.(*)	Operating Devices and Control Equipment				
		(l) (n)	2.20.( )	Identification of Equipment and Floors				
		(11)	2.20.	as modified by <u>8.7.2.28(c)</u> thru <u>8.7.2.28(f)</u>				
				ao modinou by <u>0.7.2.20(0)</u> tinu <u>0.7.2.20(1)</u>				

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	·			·		Type of Altera		_
Conforms to B44 Mark with 'X'	B44:19			Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22)	Alte	ration		ement with
s to vith				Scope of Alteration - B44 - 2019	Modification			Different
F	Reference			Part, Section or Requirement	Change	Addition	Same	Different Make/Model
onfe Ma	Number		. D. (	· u., oomon or requirement				
ن		Jor	Reference:			Type of Submiss	sion Required	
		(m)	If FEO previous	sly 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 <u>8.7.2.28(a)</u> and <u>8.7.2.28(f)</u>				
				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				
				2.27.5 FEO: Automatic Elevators with Designated-Attendant Oper	ation			
				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,	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
				eviously present or required by OBC; as a minimum				
				2.27.3.1 Provide Phase 1 Manual Recall Operation Only and	d			
				the level of activation shall not be diminished per 8.7.1.2.				
			•	and lover of additional original flot be diffilliationed per c.111.2.				
			Drive Replacen	nent (ie Power Conversion Equipment) - See [8.7.2.8]★1				
			Dive Replace	mont (is 1 ower conversion Equipment) Goo [6.7.2.6] × 1				
	8.7.2.27.6	Chang	ge in Type of Op	eration Control - CPPB, AUTOMATIC	Major	-		
	0111212110			and test requirements, see 8.10.2.3.2(t)				
			2.2(*)	Pits				
			2.3.	Counterweight Guarding				
			<u>8.7.2.4</u>	Vertical Car and Counterweight Clearances and Runbys				
			8.7.2. <del>5</del>	8.7.2.5 Horizontal Car and Counterweight Clearances				
			2.7.2	Maintenance Path and Clearance				
			<u>8.7.2.7.2</u>	Wallicharder and Olearance				
			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				
$\vdash$			2.11.1	Entrances and Emergency Doors Required				
$\vdash$			2.11.2	Types of Entrances				
$\vdash$			2.11.3	Closing of Hoistway Doors				
$\vdash$			2.11.4	Location of Horizontally Sliding or Swinging H/W Doors				
$\vdash$			2.11.5	Projection of Entrances & Equip. Beyond Land'g Sills				
-			2.11.6	Opening of Hoistway Doors				
$\vdash$			2.11.7	Glass in Hoistway Doors				
$\vdash$			2.11.8	Weights for Closing or Balancing Doors				
$\square$			2.11.9	Hoistway Door Locking Devices & Power Operation				
$\square$			2.11.10	Landing Sill: Guards, Illumination, hinged sills, Tracks				
$\square$			2.11.11	Entrances, Horizontal Slide Type				
$\vdash$			2.11.12	Entrances, Vertical Slide Type				
$\square$			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 <u>8.7.2.14.5.2</u>				
			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				
				restrained of Equipment and Floors				

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4				Alteration Checklist for Director's Order 296 / 22		Type of Altera		
ш×	D44.40			Alte	ration		ment with	
Conforms to B44 Mark with 'X'	B44:19			(see also Guideline 296 / 22) Scope of Alteration - B44 - 2019		,		1
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onfc Ma	Number			rait, occitor of requirement				
ŭ		Job	Reference:		•	Type of Submiss	sion Required	
			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				
				2.27.3 Elevator Comucir Can Station Flotograph in requiry CDO				
	[8 7 2 27] ★2	+ Ada	dition of Wander	Patient Feature - Change in Operation Control	Minor B	Minor B		
	[0.7.2.27] * 2		2.13.5. <mark>2</mark>	- door time out	ם וטוווועו	ם וטוווועו		
			2.13.3. <u>2</u> 2.27.3.1.6(l)	- shall not prevent PHI				
	[0 7 0 071±0			ed Access - Security / Floor Lock Out	Minor P	Minor P		
	[0.1.2.21] * 3				Minor B	Minor B		
				- shall not prevent floor access when on FEO				
				in 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				
	[8.7.2.27]★4	★ Add	dition of Destina	tion Dispatch		Minor B		
			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				
	8.7.2.27.7	Pomos	val of omorgone	y stop switch on passenger elevators	Minor B			
	0.7.2.27.7			and test requirements, see 8.10.2.3.2(t)	WIIIIOI B	-		
			•	,				
				red 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				
	0 7 0 07 0		15			п о в		
	8.7.2.27.8		cal Protective D			See Be	elow ↓	
	0.7.0.07.0			and test requirements, see 8.10.2.3.2(nn)	N/a:au	N.4=:==		N4=:==
	8.7.2.27.8			of an Electrical Protective Device	Major	Major	mrr	Major
		Alterat	don of Addition (	''		,		
-		Alterat		if device meets 2.26.4.3.2 (PES)	ajo.			
			2.26.2	Electrical Protective Devices - for specified device	aje.	·		
	8.7.2.27.8		2.26.2	Electrical Protective Devices - for specified device of an Electrical Protective Device	-	Minor A	n	nrr
	8.7.2.27.8	Alterat	2.26.2 tion or Addition o	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1	- -	·	n	nrr
	8.7.2.27.8	Alterat	2.26.2	Electrical Protective Devices - for specified device of an Electrical Protective Device	-	·	n	nrr
		Alterat	2.26.2 tion or Addition of 2.26.2	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device	-	Minor A		nrr
	8.7.2.27.8 <b>8.7.2.27.9</b>	Alterat Door M	2.26.2 tion or Addition of 2.26.2 Monitoring Syste	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device m	-	Minor A	n elow ↓	nrr
	8.7.2.27.9	Alterat	2.26.2  2.26.2  Monitoring Syste For inspection a	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo)	-	Minor A		nrr
		Alterat  Door M  Alterat	2.26.2  2.26.2  Monitoring Syste For inspection attachments or Addition of	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits	- Minor A	Minor A		nrr
	8.7.2.27.9	Alterat  Door M  Alterat	2.26.2  2.26.2  Monitoring Syste For inspection a	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo)	- Minor A	Minor A		nrr
	8.7.2.27.9	Alterat  Door M  Alterat	2.26.2  2.26.2  Monitoring Syste For inspection attachments or Addition of	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits	- Minor A	Minor A  See B  Minor A	elow 🖟	nrr
	8.7.2.27.9	Alterat  Door M  Alterat  Emerg	2.26.2  2.26.2  Monitoring Syste For inspection attachment of Addition of 2.26.5  gency Operation	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices	- Minor A	Minor A	elow 🖟	nrr
	<b>8.7.2.27.9</b> 8.7.2.27.9	Alterat  Door M  Alterat  Emerg	2.26.2  2.26.2  Monitoring Syste  For inspection attachment of Addition of 2.26.5	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices	- Minor A	Minor A  See B  Minor A	elow &	nrr
	<b>8.7.2.27.9</b> 8.7.2.27.9 <b>8.7.2.28</b>	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition of 2.26.5  Jency Operation  mergency Signa	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices	Minor A	Minor A  See B  Minor A  See B	elow &	
	<b>8.7.2.27.9</b> 8.7.2.27.9 <b>8.7.2.28</b>	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition of 2.26.5  Jency Operation  mergency Signa	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices	Minor A	Minor A  See B  Minor A  See B	elow &	
	<b>8.7.2.27.9</b> 8.7.2.27.9 <b>8.7.2.28</b>	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition or Addition or 2.26.5  Jency Operation  mergency Signa  For inspection attacks and a second attacks are a second attacks and a sec	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices	Minor A	Minor A  See B  Minor A  See B	elow &	
	<b>8.7.2.27.9</b> 8.7.2.27.9 <b>8.7.2.28</b>	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition or Addition or 2.26.5  Jency Operation  mergency Signa  For inspection attacks and a second attacks are a second attacks and a sec	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car	Minor A	Minor A  See B  Minor A  See B	elow &	
	<b>8.7.2.27.9</b> 8.7.2.27.9 <b>8.7.2.28</b>	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition of 2.26.5  Jency Operation mergency Signal  For inspection at 2.27.1  8.7.2.8	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs	Minor A	Minor A  See B  Minor A  See B	elow &	
	<b>8.7.2.27.9</b> 8.7.2.27.9 <b>8.7.2.28</b>	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection at the control of	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs Listed/Certified Labeled/Marked	Minor A	Minor A  See B  Minor A  See B	elow &	
	<b>8.7.2.27.9</b> 8.7.2.27.9 <b>8.7.2.28</b>	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition of 2.26.5  Jency Operation mergency Signal  For inspection at 2.27.1  8.7.2.8	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs	Minor A	Minor A  See B  Minor A  See B	elow &	
	8.7.2.27.9 8.7.2.27.9 8.7.2.28 8.7.2.28(a)	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection at the control of	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs Listed/Certified Labeled/Marked Identification (for elevators in the same group)	Minor A Contacts	Minor A  See B  Minor A  See B  Minor B	elow &	
	<b>8.7.2.27.9</b> 8.7.2.27.9 <b>8.7.2.28</b>	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition or Addition or Addition or 2.26.5  gency Operation mergency Signal  For inspection at 2.27.1  8.7.2.8  2.26.4.2  2.29.  gency or Standby	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs Listed/Certified Labeled/Marked Identification (for elevators in the same group)	Minor A	Minor A  See B  Minor A  See B	elow &	
	8.7.2.27.9 8.7.2.27.9 8.7.2.28 8.7.2.28(a)	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition or Addition or 2.26.5  gency Operation mergency Signal For inspection at 2.27.1  8.7.2.8  2.26.4.2  2.29.  gency or Standby For inspection at 2.27.1	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs Listed/Certified Labeled/Marked Identification (for elevators in the same group)  y Power and test requirements, see 8.10.2.3.2(I)	Minor A Contacts	Minor A  See B  Minor A  See B  Minor B	elow &	
	8.7.2.27.9 8.7.2.27.9 8.7.2.28 8.7.2.28(a)	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition or Addition or 2.26.5  gency Operation mergency Signal For inspection at 2.27.1  8.7.2.8  2.26.4.2  2.29.  gency or Standby For inspection at 2.27.2	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs Listed/Certified Labeled/Marked Identification (for elevators in the same group)  y Power and test requirements, see 8.10.2.3.2(I) Emergency or Standby Power systems	Minor A Contacts	Minor A  See B  Minor A  See B  Minor B	elow &	
	8.7.2.27.9 8.7.2.27.9 8.7.2.28 8.7.2.28(a)	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition or Addition or Addition or 2.26.5  gency Operation mergency Signal  For inspection at 2.27.1  8.7.2.8  2.26.4.2  2.29.  gency or Standby For inspection at 2.27.2  8.7.2.8  8.7.2.8	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs Listed/Certified Labeled/Marked Identification (for elevators in the same group)  y Power and test requirements, see 8.10.2.3.2(I) Emergency or Standby Power systems Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs	Minor A Contacts	Minor A  See B  Minor A  See B  Minor B	elow &	
	8.7.2.27.9 8.7.2.27.9 8.7.2.28 8.7.2.28(a)	Door M Alterat Emerg Car En	2.26.2  Monitoring Syste  For inspection attion or Addition or Addition or Addition or 2.26.5  gency Operation mergency Signal  For inspection at 2.27.1  8.7.2.8 2.26.4.2 2.29.  gency or Standby For inspection at 2.27.2  8.7.2.8 2.26.4.2	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs Listed/Certified Labeled/Marked Identification (for elevators in the same group)  y Power and test requirements, see 8.10.2.3.2(I) Emergency or Standby Power systems Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs Listed/Certified Labeled/Marked	Minor A Contacts	Minor A  See B  Minor A  See B  Minor B	elow &	
	8.7.2.27.9 8.7.2.27.9 8.7.2.28 8.7.2.28(a)	Door M Alterat Emerg Car En	2.26.2  2.26.2  Monitoring Syste  For inspection attion or Addition or Addition or Addition or 2.26.5  gency Operation mergency Signal  For inspection at 2.27.1  8.7.2.8  2.26.4.2  2.29.  gency or Standby For inspection at 2.27.2  8.7.2.8  8.7.2.8	Electrical Protective Devices - for specified device of an Electrical Protective Device if device meets 2.26.4.3.1 Electrical Protective Devices - for specified device  m and test requirements, see 8.10.2.3.2(oo) of a System to Monitor faulty door contract circuits System to Monitor & Prevent Automatic Operation w/ Faulty Door and Signaling Devices ling Devices ling Devices and test requirements, see 8.10.2.3.2(pp) Car Emergency Signaling Devices visual & audible signal permitted to be inside the car Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs Listed/Certified Labeled/Marked Identification (for elevators in the same group)  y Power and test requirements, see 8.10.2.3.2(I) Emergency or Standby Power systems Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs	Minor A Contacts	Minor A  See B  Minor A  See B  Minor B	elow &	

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s th	B44:19			(see also Guideline 296 / 22) Scope of Alteration - B44 - 2019		r		1
ËŽ	Reference			Part, Section or Requirement	Modification Change	Addition	Same	Different Make/Model
Conforms to B44 Mark with 'X'	Number			r art, occitor of requirement				
ŭ			Reference:			Type of Submiss	sion Required	
	8.7.2.28(c)	_		cy Operation or Occupant Evacuation Operation	Minor B	Minor A		
				and test requirements, see 8.10.2.3.2(m)				
		2	2.27.3	FEO: Automatic Elevators				
		2	2.27.4	FEO: Non-Automatic Elevators				
		2	2.27.5	FEO: Automatic Elevators w/Attendant				
		2	2.27.6	FEO: Inspection Operation				
		2	2.27.7	FEO: Operating Procedures				
		2	2.27.8	Switch Keys				
		2	2.27.11	Occupant Evacuation Operation				
		8	<u>3.7.2.8</u>	Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs				
		2	2.26.4.2	Listed/Certified Labeled/Marked				
		2	2.29.	Identification (for elevators in the same group)				
	8.7.2.28(d)	Addition	of Elevator to	a Group - all elevators to meet:	-	Minor A		
		F	or inspection	and test requirements, see 8.10.2.3.2(m)				
		2	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 2.27.3.2.3				
				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	★ Emer	rg. Recall Upo	rade - from Manual to Automatic matching code at time of install	Mir	nor B		
			3	conformance to auto recall based on F.S. at time of install				
	[8.7.2.28]★2	★ Emer	rg. Recall Upo	rade to comply with a Fire Code Retrofit Order	Minor B	Minor A		
			3	2.27.3 FEO: Automatic Elevators				
		С	CAD 3.20	Fire Code Retrofits				
	[8.7.3.]★	Alterat	tion - Hvdr	aulic to Electric Elevator				
					Now			
				vator operated in an existing hoistway and a new electric elevator	New			
				place, the following conditions will apply:				
		P	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				
		<b>.</b>		A New Installation Number will be issued				
		<b>^</b> 2	2.15.9	A New Installation Number will be Issued Apron plate length per 2.15.9 or				
		* 2	10.9					
				- collapsible / telescopic / folding design utilized				

0	1	2a	2b	2c	3	4	5	6
4 -				Alteration Checklist for Director's Order 296 / 22		Type of Alter	ation Work	
Э. Х.	B44:19			(see also Guideline 296 / 22)	Alte	ration	Replace	ement with
ns t witl	Reference			Scope of Alteration - B44 - 2019	Modification	م ماطاند م	Como	Different
Conforms to B44 Mark with 'X'	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
S Z		Job F	Reference:			Type of Submiss	sion Required	d
	0.7.0	A 14 a n a	tione to th	udnavilla Flavotana				
	8.7.3			ydraulic Elevators				
	8.7.3.1		y Enclosures			see 8.	7.2.1	
	8.7.2.1		y Enclosures		Major	Major		
	8.7.2.1.1		y Enclosure V		Major	Major		
			2.1.1	Hoistway Enclosures				
			2.1.5 2.1.6	Windows and Skylights Projections, Recesses, and Setbacks in H/W				
			2.1.0 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				
			3.7.2.10	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	c Existing Hoistway	-	New		
			344-2019	New Installation				
			2.5.	Horizontal Car and Counterweight Clearances				
	8.7.2.1.3		ction at Top o		Major	Major		
<u> </u>			2.1.2.1	Construction at Top of the Hoistway				
			2.1.3	Floor Over Hoistways				
	8.7.2.1.4	_	3.7.2.4	Vertical Car & Cwt Clearances & Runbys m of Hoistway	Major	Major		
	0.7.2.1.4		2.1.2.2	Construction at Bottom of the Hoistway	iviajoi	iviajoi		
			2.1.2.3	Strength of Pit Floor				
			2.2.	Pits				
			3.7.2.4	Vertical Car & Cwt Clearances & Runbys				
	8.7.2.1.5		of Smoke and		Major	Major		
		2	2.1.4	Control of Smoke and Hot Gases	-			
	8.7.3.2	Pits				see Electric	Elevators	i
	8.7.2.2			ations below for non Major Alterations	Major	-		
	8.7.2.1.2		or inspection on to Pits	and test requirements, see 8.10.3.3.2(u)				
	0.7.2.1.2		2.2.	Pits				
			2.1.2.3	Strength of Pit Floor				
			3.7.2.4	Vertical Car & Cwt Clearances & Runbys				
	8.7.2.1.2		ns & Sumps		Minor B	Minor B		
			2.2.2.	Pit Drains				
	8.7.2.1.2	Pit Guai	rds		Minor B	Minor A		
			2.2.3	Guards Between Adjacent Pits				
	8.7.2.1.2	Pit Acce			Minor B	Minor A		
<u> </u>	0.70 / 0		2.2.4	Pit Access	h 4: -			
-	8.7.2.1.2	Pit Illum		Illumination of Dita	Minor B	Minor B		
-	97212		2.2.5 Switches	Illumination of Pits	Minor B	Minor		
<b>I</b>	8.7.2.1.2		Switches 2.2.6	Stop Switches	INITIOL R	Minor A		
	8.7.2.1.2	Pit Dept		Ctop Officiality	Minor B	Minor A		
			2.2.7	Minimum Pit Depths Required				
	8.7.2.1.2		to Underside		Minor B	Minor A		
			2.2.8	Access to Underside of Car				
	8.7.2.2.2	Addition	of surface-m	ounted sump pump	-	Minor B		
		3	3.4.1	bottom clearances maintained				
				not restrict pit access				
ļ			2.2.2.4	plumbing code, ventilation of gases				
Í		2	2.2.2.5	If FEO elevator, 11.4 m <sup>3</sup> /h (3000 gal/h) single or multiple h/w				
-								
	9733	Location	and Cuardin		Maiar			
	8.7.3.3		n and Guardin		Major	Major		
	8.7.3.3	F	or inspection	and test requirements, see 8.10.3.3.2(b)	Major	Major		
	8.7.3.3	F 2		and test requirements, see 8.10.3.3.2(b)  Location and Guarding of Counterweights	Major	Major		
	8.7.3.3	F 2 2	For inspection 2.3.	and test requirements, see 8.10.3.3.2(b)	Major	Major		

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				Alteration Checklist for Director's Order 296 / 22		Type of Altera		
. B	B44:19			(see also Guideline 296 / 22)	Alte	eration	Replace	ement with
is to	Reference			Scope of Alteration - B44 - 2019	Modification	1		Different
orm	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	Number	loh	Reference:	·		Type of Submiss	ion Required	
Ü	0 = 0 4			starrow'sht Olassas and Dombon (		Type of Casimod	I Troquired	
	8.7.3.4	vertica		nterweight Clearances and Runbys (no reduction allowed)	Major	-		
				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				
			<u>8.7.3.23.5</u>	Change in Location of Hydraulic Jack				
	8.7.3.5	Horizo		ounterweight Clearances (no reduction allowed)	Major	-		
				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				
			<u>8.7.3.23.5</u>	Change in Location of Hydraulic Jack				
	8.7.3.6	Protec		Below Hoistways	Minor B	Major		
				and test requirements, see 8.10.3.3.2(x)				
			3.6.	Protection of Spaces below Hoistway				
	8.7.3.7			Machinery Spaces		see 8.7		
	8.7.2.7	Machi		Machinery Spaces		See Be	elow 🖟	
				and test requirements, see 8.10.2.3.2(bb)				
	8.7.2.7.1	Enclos		an 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	s 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	Acces	s Doors and Op	penings	Minor B	Minor B	n	nrr
			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	Headr	oom (no reduction	n)	Minor B	Minor B		
			2.7.4	Headroom in Machine Rooms/Spaces, Control Room/Spaces				
	8.7.2.7.5	Windo	ws and Skyligh	ts	Minor B	Minor B		
			2.1.5	Windows and Skylights				
	8.7.2.7.6	Lightin	ng (no reduction)		Minor B	Minor A		
			2.7.9.1	Lighting				
	8.7.2.7.7	Ventila	ation		Minor B	Minor B		
			2.7.9.2	Temperature & Humidity				
	[ 8.7.2.7]★1	Additio	on of Elevator E	quipment 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)				
				or clearance required at time of original control installation				
		(g)		access in front of / space to operate main disconnect (1000mm),				
		,		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	Electri	ical Wiring, Pipe	es, and Ducts in Hoistways and Machine Rooms	Minor B	Minor B	mrr	Minor B
				and test requirements, see 8.10.3.3.2(z)				
		Install	•	ectrical equipment, wiring, raceways, cables, pipes, ducts)	-	Minor B		
				n 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				
		Altera	tion of Existing (	(electrical equipment, wiring, raceways, cables, pipes, ducts)	Minor B	-		
			2.8.	Equipment in Hoistways, Machine or Control / Rooms or Spaces				
				= 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				

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44		Alteration Checklist for Director's Order 296 / 22		Type of Alter		
Conforms to B44 Mark with 'X'	B44:19	(see also Guideline 296 / 22)	Alte	ation	Replace	ement with
ms	Reference	Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
nfor Mari	Number	Part, Section or Requirement	Change			Make/Model
ပိ		Job Reference:	1	ype of Submis	sion Required	I
	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				
	0 7 0 40	adequacy of building structure verified by P.Eng.		0	7.0.40	
	8.7.3.10	Hoistway Entrances and Openings - see 8.7.2.10	Major	see 8.7		halaw
	8.7.2.10 8.7.2.10.1	Entrances and Hoistway Openings General Requirements	Major Major	Major	see	below
	0.7.2.10.1	For inspection and test requirements, see 8.10.2.3.2(o)	iviajoi			
	8.7.2.10.1(a)	General Requirements - All New Entrances	Major	_	Major	Major
	σ(ω)	2.11. Protection of H/W Openings	aje:		ajo:	ajo:
		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				
		8.7.2.10.5 Marking of Entrance Assemblies				
	9 7 2 40 2	Harizontal Slide Type Entrances I now entrance and components to most	Maior	Maior	000	holow
	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			M	ajor
		2.11.11 Entrances, Horizontal Slide Type			IVI	~j~.
		Installed New components to meet:				
	sills (a)	2.11.10.1 Landing-Sill Guards	Min	or B	Mir	nor 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	Min	or B		nor B
	frame (c)	2.11.11.3 Entrance Frames	Min	or A	Mir	nor 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				

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			Alteration Checklist for Director's Order 296 / 22	Type of Altera	
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Alteration	Replacement with
s to vith	Reference		Scope of Alteration - B44 - 2019	Modification	Different
투	Number		Part, Section or Requirement	Change Addition	Same Make/Model
Son	Nullibei	Job Reference:	·	Type of Submiss	ion Poquirod
0	h (-l)				
	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		
	rotoinoro (f)	<u>8.7.2.10.5</u>	Marking of Entrance Assemblies	Min and D	M' D
	retainers (f)	2.11.11.8	Hoistway Door Safety Retainers	Minor B	Minor B
	8.7.2.10.3	71	Entrances - new entrance and components to meet:	Major Major	see below
		•	n and test requirements, see 8.10.2.3.2(o)		Major
		8.7.2.10.1	Entrances & H/W Openings - General Req'mts		Major
		2.11.12	Entrances, Vertical Slide Type		
	oillo (a)		components to meet:	Minas D	Min D
	sills (a)	2.11.10.3	Hinged Hoistway Landing Sills	Minor B	Minor B
	from as (L)	2.11.12.1	Landing Sills  Entrances Frames	Minor	Minor D
	frames (b)	2.11.12.2		Minor B	Minor B
	roilo (a)	8.7.2.10.5	Marking of Entrance Assemblies		
	rails (c) panels (d)	2.11.12.3 2.11.12.3	Rails	mrr Minor A	mrr Minor A
	paneis (d)	2.11.12.3 2.11.12.4	Rails Panels	Minor A	Minor A
-		2.11.12.4	Guides		
-		2.11.12.5 2.11.12.6			
-		2.11.12.8	Counterweighting or Counterbalancing Pull Straps		
		8.7.2.10.5	Marking of Entrance Assemblies		
	guides (e)	2.11.12.5	Guides		
	sill guard (f)		Sill Guards	mrr	mrr
	straps (g)		Pull Straps	11111	11111
			es - new entrance and components to meet:	Major Major	see below
	0.7.2.10.4	~	and test requirements, see 8.10.2.3.2(o)	Major Major	occ below
		8.7.2.10.1	Entrances & H/W Openings - General Reg'mts		Major
		2.11.13	Entrances, Swing Type		ajo:
		_	components to meet:		
	sills (a)	2.11.10.1	Landing-Sill Guards	Minor B	Minor B
	, ,	2.11.10.3	Hinged Hoistway Landing Sills		
		2.11.13.1	Landing Sills		
	frames (b)	2.11.13.2	Entrance Frames	Minor B	Minor B
	\ /	2.11.13.4	Hinges		
		<u>8.7.2.10.5</u>	Marking of Entrance Assemblies		
	panels (c)		Panels	Minor B	Minor B
		2.11.13.4	Hinges		
		2.11.13.5	Marking		
		<u>8.7.2.10.5</u>	Marking of Entrance Assemblies		
	hinges (d)	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 then existing entrance		
		8.7.2.10.5(a)	labeled per NBCC requirements		
	[8.7.2.10]★1	★ Removing Serving	ice 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 Retail		Minor B Minor A	mrr Minor B
		2.11.11.8	Hoistway Door Safety Retainers		

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$\vdash$	'	Za ZD	•	3	Type of Altera		1 0
₩.×	D44.40		Alteration Checklist for Director's Order 296 / 22	Alte	eration		ement with
if t	B44:19		(see also Guideline 296 / 22) Scope of Alteration - B44 - 2019		T		7
ᇍᅕ	Reference		Part, Section or Requirement	Modification Change	Addition	Same	Different Make/Model
Conforms to B44 Mark with 'X'	Number		r art, dection or requirement	3.			
ŭ		Job Reference:			Type of Submiss	ion Require	d
	8.7.3.11	Hoistway Door-Lockin	g Devices		See 8.7	.2.11	
	8.7.2.11	Hoistway Door-Lockin	g Devices, Access Switches & Parking Devices			elow 🖟	
		For inspection	and test requirements, see 8.10.3.3.2(aa)				
	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	į
		2.12.7	Hoistway Access Switches (n/a for column 5,6)			n/a	İ
		2.14.5.7	Restricted Opening of Car Doors (Interlock or Restrictor)			n/a	[
						11/a	i
		2.24.8.3	Driving-Machine Brake				
							14° D
	8.7.2.11.2	Mechanical Locks and		-	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	ı	mrr
	, ,	2.12.6	Hoistway Door Unlocking Devices				
		2.24.8.3	Driving-Machine Brake				
	8.7.2.11.4 (b)	Addition of Access Sv	vitches	-	Minor A		mrr
	()	2.12.7	Hoistway Access Switches				
		2.24.8	Braking System and Driving-Machine Brake				
		2.26.1.4	Inspection Operation				
		2.20.1.4	mapeculari 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
	0.7.2.11.3			IVIIIIOI D	see below	11111	IVIIIIIVI D
		2.14.5.7	Restricted Opening of Car Doors (Interlock or Restrictor)				
		2.14.5.7(a)			Minor A		
		"	provide schematic OR				
		2.14.5.7(b)			Minor A		
			provide schematic OR				
		2.14.5.7(b)	Restrictor (Mechanical - not requiring electrical means)		Minor B		
	8.7.3.12	Power Operation of H	oistway 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				
		<b>★</b> 2.13.	Power Operation of Hoistway Doors and Car Doors				
			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				
		<u></u>	2.515% JOHNIOG GITG EGDOLOGINGUINOG DTT. I/ATT.O II NOW				
	8.7.2.12★1	★ Replacement of Do	oor Operator	_	_	mrr	Minor B
	0.1.2.12 🛪 1		Power Operation of Hoistway Doors and Car Doors		•	1/111	IVIIIIIVI
		2.13.(*)					
			2.13.5.4, 2.13.5.5, 2.13.5.6 if not previously provided				
		[8.7.2.15]★1,★	2				

0	1	2a 2b	2c	3	4	5	6
4		,	Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replace	ment with
ns t with	Reference		Scope of Alteration - B44 - 2019	Modification	A al alisi o o	Come	Different
oforr Tark	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
Cor		Job Reference:		٦	Type of Submiss	ion Required	
	8.7.3.13	Car Enclosures and [	Door Reopening Devices				
	8.7.2.13.2		ice (Safety Edge) (Altered or Added or Replaced)		See <u>8.7</u>	.2.13	
	8.7.2.13		ice (Safety Edge) (Added or Part of an Alteration)	Minor B	Minor B		Minor B
			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 &II at time of instal	İ			
		Door Reopening Dev	ice (Safety Edge) (Replacement - Mech-Mech or Elec to Elec)			mrr	mrr
			no change in detection features			s	ee
						8.6	5.3.8
			ice (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 &II at time of instal	l			
		0 5 :					
	8.7.2.13.1	Car Enclosures	10. 10. 11.		See <u>8.7</u>		
	8.7.2.14		Doors and Gates, and Car Illumination			elow 🖟	
	0.7.0.44.4		and test requirements, see 8.10.3.3.2(cc)	Maiau			
	8.7.2.14.1	Installation of New Ca 2.14.*	Car: Enclosure, Doors, Gates, Illumination	Major	-		
		2.14. 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		Minor A	Minor A		
		Car Enclosure - Secu		Minor A	Minor A		
	σπ <u>ι</u> Ξττ τιΞ(α)	2.14.1.2	Securing of Enclosures				
	8.7.2.14.2(b)	Top Emergency Exit	9	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		Minor B	Minor B	n	nrr
		2.14.1.9	Equipment Inside Cars				
		`	) Handrails				
			) fastening devices for protective linings				
		,	) 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	(1100			
			) heating or cooling equipment				
		[8.7.2.15] <b>★</b> 1, <sup>7</sup>	, , ,				
		,					
	[8.7.2.14]★1	★ Car operating stat	ion	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]★1,7	2				
	[8.7.2.14]★2		urveillance 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] ★ 1,7	*2				

0	1	2a 2b	2c	3	4	5	6
4			Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	
9 ×	B44:19		(see also Guideline 296 / 22)	Alte	eration	Repla	cement with
ns to	Reference		Scope of Alteration - B44 - 2019	Modification	I		Different
ark for	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	Number	Job Reference:			Type of Submiss	sion Require	ed
	[8 7 2 14]★3	★ touchless or hands	sfree call activation	Minor B	Minor B	mrr	Minor B
	[0.7.2.11] ***	8.7.2.8	Electrical Equipment, Wiring	Willion B	Willion B		Willion B
		0.7.2.0	Disabled during FEO operation (per risk assessment)				
			B44.1 / A17.5				
			schematic				
			Scrematic				
	8.7.2.14.2(e)	Side Emergency Exits	s - 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	Mir	nor A		Minor A
	1	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
	(6)	2.14.7	Illumination of Cars and Lighting Fixtures				
	8.7.2.14.2(h)	Partitions Installed in		Major	Major	mrr	Minor B
	( )	2.16.1.2	Use of Partitions for Reducing Inside Net Platform Area	,	•		
	[8.7.2.14]★5	-	tors for High Risk Occupants	Minor B	Minor B	mrr	Minor B
	[entitle of		Identification of need				
			Identification of recall level during FEO				
			Safe egress of occupants during FEO				
			Care ogress or essaparite daring i 20				
	8.7.2.14.2(i)	Installation of Car Do	or or Gate, Installation to meet:	Major	Major		
	0.7.2.14.2(1)	2.14.4	Passenger and Freight Car Doors/Gates, General Requirements	iviajoi	iviajoi		
		2.14.5*	Passenger Car Doors				
		2.14.6	•				
		2.14.0	Freight Elevator Car Doors and Gates				
	8.7.2.14.4	Altanation to Con Engl	Jacobs other than 0.7.0440. Englacous Metarials	NA:	nor B		
	8.7.2.14.4		losure other than 8.7.2.14.2 - Enclosure Materials	IVIII	101 D	mrr	
		2.14.2.1.2	flame and smoke levels padded protective linings				
		2.14.2.1.3					
		2.14.2.1.4	List of items excluded from 2.14.2.1 compliance				
	[0 7 0 14]±6	→ Installation of Viny	I Graphics - Car Interiors	N Air	nor B		
	[6.7.2.14] * 0	2.14.2.1.2	Data sheets to reflect conformance to flame and smoke levels	IVIII	101 B		
		2.14.2.1.2	Data sheets to reflect conformance to flame and smoke levels				
	O Pag 200/01a20	+ Delegation of Flour	ator License to remote location	Minor D+			
	O.Reg.209/01530	* Relocation of Elev	ator License to remote location	Minor B†	-		
	8.7.2.14.5	Addition of Car Top R	Pailing	Minor B	Minor A	_	Minor A
	0.7.2.14.3		and test requirements, see 8.10.2.3.2(rr)	IVIIIIOI D	IVIII IOI A	_	IVIII IOI A
		8.7.2.14.5.1	Installation of a Standard Railing	Minor B	Minor A		Minor A
		2.14.1.7		WILLIOL D	MINION A	-	IVIII IOI A
		2.14.1.7	Railing and Equipment on Car Enclosure Top				
		0704450	Staurahla Faldahla Callanaihla	Minor D	Minor		Minar
		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 othe	r equipment	Var	iance		

0	1	2a	2b	2c	3	4	5	6
4				Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	
) B,	B44:19			(see also Guideline 296 / 22)	Alte	eration	Replace	ment with
ns to with	Reference			Scope of Alteration - B44 - 2019	Modification	T		Different
orm	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	Number	loh	Reference:	·		Type of Submiss	sion Required	
<u> </u>	0 7 0 44					Type of Capitalo		
	8.7.3.14	Car Fr	rames and Platfo		Major	-	IVI	ajor
			•	and test requirements, see 8.10.3.3.2(dd)				
	0.7.0.45	0-1-1	3.15.	Car Frames & Platforms		. O D	- I	
	8.7.3.15	Safetie		Car or Cwt (plunger gripper see 8.7.3.23.7)		See Be  Maiar		N 4' A
	8.7.3.15.1	Car Sa	afeties	and test as adversaria, as a 0.40 0.00(a)	-	Major	mrr	Minor A
			•	and test requirements, see 8.10.3.3.2(e)				
			3.17.1	Car Safeties				
			3.23.	Guide Rails, Guide-Rail Supports, and Fastenings				
	0.7.0.45.0	0	3.28.	Layout Data		Maiau		Λ4:
	8.7.3.15.2	Count	erweight Safetie		-	Major	mrr	Minor A
				and test requirements, see 8.10.3.3.2(e)				
			3.17.2	Counterweight Safeties				
			3.23.	Guide Rails, Guide-Rail Supports, and Fastenings				
	0 7 0 45 0	A 11 1	3.28.	Layout Data	N 4 - 1			N 4" A
	8.7.3.15.3	Altera		Car or Counterweight Safeties	Major	-	mrr	Minor A
			•	and test requirements, see 8.10.3.3.2(e)				
			3.17(*)	Car and counterweight safeties and plunger gripper				
			3.23.	Guide Rails, Guide-Rail Supports, and Fastenings				
			3.28.	Layout Data				
	8.7.3.16		nors and Gover	·		See <u>8.7</u>		
	8.7.2.19	Speed		I Governor Ropes	Major	Major	∜See	Below ⊕
				and test requirements, see 8.10.3.3.2(f)				
	8.7.2.19		2.18.	Speed Governors			mrr	Minor A
							see	
	0.7.0.40		0.47.45				8.6.3.6	
	8.7.2.19		2.17.15	Governor Rope Releasing Carriers			mrr	mrr
			_					3.6.3.9
	8.7.2.19		Governor Rope	es of different material or Construction to:			Minor B	Minor B
				2.18.6 Design of Gov'r Rope Retarding Means for Type B Safeties	1			
				2.18.7 Traction between Speed Governor Rope & Sheave				
			& testing to	2.17.3 Function and Stopping Distances of Safeties				
	0 7 0 47	01		mires December 1 Feetahl OD Feetahl 1 December 1	N 4 - '			
	8.7.3.17	Chang		rvice: Passenger to Freight OR Freight to Passenger	Major	-		
				and test requirements, see 8.10.3.3.2(j)				
			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				
			2.15	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				
			2.47					
			3.17.	Car and Counterweight Safeties				
			2 24	2.17 Car and Counterweight Safeties				
			3.21.	Counterweights				
			2.22	2.21 Counterweights				
			3.23.	Guide Rails, Guide-Rail Supports, and Fastenings				
			2.10 /*\	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				

0	1	2a	2b	2c	3	4	5	6
				Alteration Checklist for Director's Order 296 / 22		Type of Alter		
₩.×	B44:19			(see also Guideline 296 / 22)	Alte	ration		ement with
s to vith	Reference			Scope of Alteration - B44 - 2019	Modification			Different
투	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	Number	Job Refer	onooi	. ,		Tuno of Cubmin	ion Boquirod	
0			ence.			Type of Submiss	sion Required	
		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 <u>8.7.3.31.8(a)</u> thru <u>8.7.3.31.8(f)</u>				
				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 at Recall Level 3.27.4 Device Actuation w/ Phase 2 In-Car Operation in Effect				
				2.27.1 Car Emergency Signalling Devices				
$\vdash\vdash$				2.27.1 Car Emergency Signaling Devices 2.27.2 Emergency or Standby Power systems				
$\vdash$				2.27.3 FEO: Automatic Elevators				
$\vdash\vdash$				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			ading: [A, B, C1, C2, C3]	Major	-		
			•	and test requirements, see 8.10.3.3.2(j)				
		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 an d Loading				
	8.7.3.19	Carrying of Page 1	assenge	rs on Freight Elevators	Major	-		
				and test requirements, see 8.10.3.3.2(j)				
		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 R	ated Loa	• •	Major	-		
				and test requirements, see 8.10.3.3.2(j)				
		2.26.1		Inspection Operation				
		2.26.1		Inspection Operation with Open Door Circuits				
		2.26.5		System to Monitor & Prevent Automatic Operation w/ Faulty Door Contacts				
$\vdash$		3.14.		Car: Enclosure, Doors, Gates, Illumination				
$\vdash$		5.14.		2.14 Car: Enclosure, Doors, Gates, Illumination				
		2.45		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 permits				
$\vdash$		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				
		<u>8.7.3.2</u>	23.4	Increase in Working Pressure				

0	1	2a	2b	2c	3	4	5	6
4			1	Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	
Conforms to B44 Mark with 'X'	B44:19			(see also Guideline 296 / 22)	Alte	eration	Replace	ement with
ns to	Reference			Scope of Alteration - B44 - 2019	Modification	T		Different
r y	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
onf Mg	Nullibei	lak	Reference:			Type of Submiss	ion Boquiros	
0		JUL	releielice.			Type of Submiss	sion Required	
				1 10 10 11 D 1 11 D 1 T 10 D				
	8.7.3.21	Increa		ht of Car (Car Wt+Rated Load >5%)	Major	-		
				and test requirements, see 8.10.3.3.2(d)				
			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 permits	5			
			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				
			0.7.0.00.4	In annual in Moulting Description				
			8.7.3.23.4	Increase in Working Pressure				
	10.7.0.011.1		[8.7.2.15]★1(a)		N			
	[8.7.3.21]★0	* Mis		I Data Tag (Tag Required)	Minor B	Minor B		
	10 = 0 5		[8.7.2.15]★0	5 1 11 (0 // " "				
	[8.7.3.21]★1	* Cu		ase 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	★ Cu		ase Deadweight of Car (>115 kg to 5%)	Minor A	Minor A		
			[8.7.2.15]★1					
			[8.7.2.15]★2					
			engineering as	sessment of related items affected by weight change				
	8.7.3.22		ge in Rise or Rat		Major	-		
	8.7.3.22.1	increa	ase or Decrease		Major	-		
				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	Increa	se in Rated Spe		Major	-		
				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				
				Operating Devices and Central Equipment			-	
			3.26.1	Operating Devices and Control Equipment				

0	1	2a 2b	2c	3	4	5 6
	'		·	J	Type of Altera	
₩.×	D44-40	Alt	reration Checklist for Director's Order 296 / 22	Alter	ation	Replacement with
s to /ith	B44:19		(see also Guideline 296 / 22) Scope of Alteration - B44 - 2019	NA - differentian		Different
Ë Ž	Reference		Part, Section or Requirement	Modification Change	Addition	Same Different Make/Model
Conforms to B44 Mark with 'X'	Number		ruit, occion of requirement			
ŭ		Job Reference:		Т	ype of Submiss	sion Required
		3.26.3 A	nti-Creep and Leveling Operation			
		3.26.4 El	lectrical Protective Devices			
		3.26.5 PI	hase-Reversal and Failure Protection			
	1	3.26.6 C	ontrol and Operating Circuits			
	1	3.20. R	opes and Rope Connections			
	8.7.3.22.3	Decrease in Rated Spee	d	Major	-	
		For inspection and	d test requirements, see 8.10.3.3.2(j)			
		3.4. Bo	ottom and Top Clearances and Runbys for Cars and Cwts			
			ripping Speeds for Speed Governors			
			apacity & Loading			
			apacity & data plates			
			lectrical Equipment and Wiring			
	1		ive Machine Controllers for Stopping/Starting/Controlling			
	•	2.20.1.2	The machine controller of ctopping ctarting controlling			
	0.7.2.00	Lludroulie Caula acces			П Ст Б	olow D
	8.7.3.23	Hydraulic Equipment	udusulis Isalis	NA-1.	See Be	
	8.7.3.23.1	Alter / Install / Replace H		Major	-	Major
		-	d test requirements, see 8.10.3.3.2(n)			
			ydraulic Jacks			see 8.6.3.10.1
	8.7.3.23.2	Alter / Install / Replace Pl		Major	-	Minor A
			d test requirements, see 8.10.3.3.2(n)			
			oped-Hydraulic Elevator			
			lungers			
	8.7.3.23.3	Alter / Install / Replace C		Major	-	Minor A
			d test requirements, see 8.10.3.3.2(n)			
		· ·	ylinders			see 8.6.3.10.2
			ylinder is Altered			
			ylinder is Sleeved	Minor A		
			letal Stops and/or Other Means			
			oped-Hydraulic Elevator			
			lungers			
	8.7.3.23.4	Increase in Working Pres		Major	-	
			d test requirements, see 8.10.3.3.2(h)			
		( )	ydraulic Jacks			
		3.19.(*) Va	alves, Pressure Piping, and Fittings			
			larking Plates			
			anks			
			tmosphere Storage and Discharge Tanks			
			/elding			
	8.7.3.23.5	Change in Location of Hy		Major	-	
			d test requirements, see 8.10.3.3.2(i)			
			ydraulic Elevators			
	8.7.3.23.6	Relocation of Hydraulic N	Machine (Power Unit)	Minor A	-	
		For inspection and	d test requirements, see 8.10.3.3.2(y)			
			ressure Switch			
	8.7.3.23.7	Plunger Gripper		Minor A	Minor A	
			d test requirements, see 8.10.3.3.2(t)			
			lunger Gripper			
		3.1.1(b) st	rength of pit floor			
		3.22.1 no	o strike when buffers compressed			
	[8.7.3.23.7] *1	Removal of Plunger Grip	per	Minor A	-	
			evel of Safety shall not be diminished			
			ylinders			
			verspeed Valves			
			ottom Car Runby			
			•			

0	1	2a 2b	2c	3	4	5	6
4 .			Alteration Checklist for Director's Order 296 / 22		Type of Altera		
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Alte	eration	Replace	ement with
ms t wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
nfori	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
Cor		Job Reference:			Type of Submiss	sion Required	l
	8.7.3.24	Valves, Pressure Pip	ping, and Fittings				
			n and test requirements, see 8.10.3.3.2(o)				
	8.7.3.24 (a)	Alter / Replace	Control Valves	Minor A	_	mrr	Minor B
		3.19.	Valves, Pressure Piping, and Fittings			see 8	.6.3.11
			, , , , , , , , , , , , , , , , , , , ,				
	8.7.3.24 (b)	Alter / Replace	Relief, Check, Shutoff, Manual Lowering, or Overspeed Valve	Minor A	Minor A	mrr	Minor B
	( )	3.19.	Valves, Pressure Piping, and Fittings			see 8	.6.3.11
	8.7.3.24 (c)	Supply piping is rero	uted	Minor A	Minor A	Min	nor B
		3.19.	Valves, Pressure Piping, and Fittings			see 8	.6.3.11
	8.7.3.24 (d)	Supply piping is repl	aced	-	-	mrr	Minor B
		8.6.3.11	Valves, Pressure Piping, and Fittings			see 8	.6.3.11
	8.7.3.24 (e)	Mechanically operate	ed valve replaced by electrically operated valve	Minor A	Minor A	Min	nor B
			existing terminal stopping devices permitted to be retained			see 8	.6.3.11
	8.7.3.25		nd Their Connections			elow ↓	
			and test requirements, see 8.10.3.3.2(ee)				
	8.7.3.25.1	•	f, or Diameter of Ropes	Major	-		
		3.20.	Ropes and Rope Connections				
			PEO to certify retained sheaves w/different ropes are satisfactory				
	8.7.3.25.1	Change in Material /	·	Minor A	-		
		3.20.	Ropes and Rope Connections				
			PEO to certify retained sheaves w/different ropes are satisfactory				
	8.7.3.25.2	Addition of Rope Eq		Minor B	Minor B		
		2.20.5	Suspension Member Equalizers				
	8.7.3.26	Counterweights - Alt	eration of		See 8.7	7.2.22	
				B 4: A			
1	8.7.2.22	Counterweights	2.40.000(11)	Minor A	-		
	0.1.2.22	For inspection	n and test requirements, see 8.10.2.3.2(ii)	Minor A	-		
		For inspection For inspection	and test requirements, see 8.10.3.3.2(ff)	Minor A	-		
	8.7.2.22.1	For inspection For inspection Alteration to a	n and test requirements, see 8.10.3.3.2(ff) any part of a cwt except guiding members	Minor A	-		
		For inspection For inspection Alteration to a 2.21.	and test requirements, see 8.10.3.3.2(ff) any part of a cwt except guiding members Counterweights	Minor A	<u>-</u>		
		For inspection For inspection Alteration to a 2.21. 3.21.	n and test requirements, see 8.10.3.3.2(ff) any part of a cwt except guiding members Counterweights Counterweights	Minor A	-		
		For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2	n and test requirements, see 8.10.3.3.2(ff) uny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights	Minor A	-		
	8.7.2.22.1	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3	n and test requirements, see 8.10.3.3.2(ff) In part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights	Minor A	-		
		For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3	n and test requirements, see 8.10.3.3.2(ff) In part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if:	Minor A	-		
	8.7.2.22.1	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3	n and test requirements, see 8.10.3.3.2(ff) In part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods	Minor A	-		
	8.7.2.22.1	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw	n and test requirements, see 8.10.3.3.2(ff) Inly part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods:	Minor A	-		
	8.7.2.22.1	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw 2.21.2.1	n and test requirements, see 8.10.3.3.2(ff) Interpretation of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods	Minor A	-		
	8.7.2.22.1	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw	n and test requirements, see 8.10.3.3.2(ff) Inly part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods:	Minor A	-		
	8.7.2.22.1	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw 2.21.2.1	n and test requirements, see 8.10.3.3.2(ff) Interpretation of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods:	Minor A	-		
	8.7.2.22.1	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw 2.21.2.1 2.21.2.3	n and test requirements, see 8.10.3.3.2(ff) Interpretation of a cwt except guiding members  Counterweights  Counterweights  Rod Type Counterweights  Location and Guarding of Counterweights  t - can retain if:  Minimum of 2 suspension and 2 tie rods  Suspension rods:  Material - Cwt Frames & Rods  Factor of Safety  Tie Rods:  Retention of Weight Sections		- mrr	n	nrr
	8.7.2.22.1 8.7.2.22.2	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw 2.21.2.1 2.21.2.3 2.21.1.2 Roller or simil	n and test requirements, see 8.10.3.3.2(ff) Interpretation of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods:		mrr	n	nrr
	8.7.2.22.1 8.7.2.22.2	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw 2.21.2.1 2.21.2.3 2.21.1.2 Roller or simil	n and test requirements, see 8.10.3.3.2(ff) Interpretation of a cwt except guiding members  Counterweights  Counterweights  Rod Type Counterweights  Location and Guarding of Counterweights  t - can retain if:  Minimum of 2 suspension and 2 tie rods  Suspension rods:  Material - Cwt Frames & Rods  Factor of Safety  Tie Rods:  Retention of Weight Sections  ar guide shoes added		mrr	n	nrr
	8.7.2.22.1 8.7.2.22.2	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw 2.21.2.1 2.21.2.3 2.21.1.2 Roller or simil	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated		mrr Major	n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad For inspection	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated  dition of and test requirements, see 8.10.3.3.2(ff)	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad For inspection 3.4.	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated  dition of n and test requirements, see 8.10.3.3.2(ff) Bottom and Top Clearances and Runbys for Cars and Cwts	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad For inspection 3.4. 3.6.	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated  dittion of n and test requirements, see 8.10.3.3.2(ff) Bottom and Top Clearances and Runbys for Cars and Cwts Protection of Spaces below Hoistway	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad For inspection 3.4. 3.6.	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated  dition of n and test requirements, see 8.10.3.3.2(ff) Bottom and Top Clearances and Runbys for Cars and Cwts Protection of Spaces below Hoistway Car: Enclosure, Doors, Gates, Illumination 2.14 Car: Enclosure, Doors, Gates, Illumination	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad For inspection 3.4. 3.6. 3.14.	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated  dition of n and test requirements, see 8.10.3.3.2(ff) Bottom and Top Clearances and Runbys for Cars and Cwts Protection of Spaces below Hoistway 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	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad For inspection 3.4. 3.6. 3.14.	n and test requirements, see 8.10.3.3.2(ff) Interpretation of a cwt except guiding members  Counterweights  Counterweights  Rod Type Counterweights  Location and Guarding of Counterweights  t - can retain if:  Minimum of 2 suspension and 2 tie rods  Suspension rods:  Material - Cwt Frames & Rods  Factor of Safety  Tie Rods:  Retention of Weight Sections  ar guide shoes added  annot touch rails if not activated  dition of  n and test requirements, see 8.10.3.3.2(ff)  Bottom and Top Clearances and Runbys for Cars and Cwts  Protection of Spaces below Hoistway  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  Car Frames & Platforms	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad For inspection 3.4. 3.6. 3.14.	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated  dition of n and test requirements, see 8.10.3.3.2(ff) Bottom and Top Clearances and Runbys for Cars and Cwts Protection of Spaces below Hoistway 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 Car Frames & Platforms Counterweight Safeties	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad For inspection 3.4. 3.6. 3.14.  3.15. 3.17.2 3.18.	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated  dition of n and test requirements, see 8.10.3.3.2(ff) Bottom and Top Clearances and Runbys for Cars and Cwts Protection of Spaces below Hoistway 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 Car Frames & Platforms Counterweight Safeties Hydraulic Jacks	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad For inspection 3.4. 3.6. 3.14.  3.15. 3.17.2 3.18. 3.20.	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated  dition of and test requirements, see 8.10.3.3.2(ff) Bottom and Top Clearances and Runbys for Cars and Cwts Protection of Spaces below Hoistway 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 Car Frames & Platforms Counterweight Safeties Hydraulic Jacks Ropes and Rope Connections	r		n	nrr
	8.7.2.22.1 8.7.2.22.2 8.7.2.22.3	For inspection For inspection Alteration to a 2.21. 3.21. 8.7.2.22.2 8.7.2.3 Rod Type Cw  2.21.2.1 2.21.2.3  2.21.1.2 Roller or simil safety jaws ca  Counterweights - Ad For inspection 3.4. 3.6. 3.14.  3.15. 3.17.2 3.18.	and test requirements, see 8.10.3.3.2(ff) Iny part of a cwt except guiding members Counterweights Counterweights Rod Type Counterweights Location and Guarding of Counterweights t - can retain if: Minimum of 2 suspension and 2 tie rods Suspension rods: Material - Cwt Frames & Rods Factor of Safety Tie Rods: Retention of Weight Sections ar guide shoes added annot touch rails if not activated  dition of n and test requirements, see 8.10.3.3.2(ff) Bottom and Top Clearances and Runbys for Cars and Cwts Protection of Spaces below Hoistway 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 Car Frames & Platforms Counterweight Safeties Hydraulic Jacks	r		n	nrr

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$\vdash$		20 20	·	3	Type of Altera		U
₩.×	B44:19		Alteration Checklist for Director's Order 296 / 22 (see also Guideline 296 / 22)	Alte	ration	Replacer	nent with
s to vith	Reference		Scope of Alteration - B44 - 2019	Modification			Different
ᇎᇵ	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	Number	Job Reference:			Type of Submiss	sion Required	
	8.7.3.27	Car Buffers and Bum	ners	Major	_	mrr	Minor B
	0.7.3.27		and test requirements, see 8.10.3.3.2(c)	Iviajoi		11111	WIIIIOI D
		3.21.	Counterweights				
		3.22.2	Counterweight Buffers				
			existing buffers exempt from 2.22.4(*)				
			, ,,				
	8.7.3.28	Guide Rails, Support	s, 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	-	Mine	or B
		•	and test requirements, see 8.10.3.3.2(k)				
	[0.7.0.00]	3.24.	Hydraulic Machines and Tanks		D	see 8.6	
	[8.7.3.29]★1			Min	or B	Mino	or R
		8.7.3.8	Electrical Wiring, Pipes, and Ducts in H/W and M/C rooms				
		2.7.2 3.10.	Maintenance Path and Clearance Guarding of Exposed Auxiliary Equipment				
		3.10.	Guarding of Exposed Auxiliary Equipment				
	8.7.3.30	Terminal-Stopping D	avicas	Minor B	Minor B		
	0.7.0.00		and test requirements, see 8.10.3.3.2(k)	WIITIOI B	WIIIOI D		
		3.25.	Terminal-Stopping Devices				
	8.7.3.31		nd Control Equipment		See Be	elow 🖟	
			and test requirements, see 8.10.3.3.2(k)				
	8.7.3.31.1	Top-of-Car Operating	• • • • • • • • • • • • • • • • • • • •	Minor A	Minor A	mrr	Minor A
		3.26.2	Inspection Operation				
			see CAD 3.8.3				
		[8.7.2.15]★1,					
	[8.7.3.31]★1	Alteration / Addition of	of any type of inspection operation	Minor A	Minor A		
		<u>8.7.2.27.1(a)</u>	Alteration or Addition of any type of Inspection Operation				
		3.26.2	Inspection Operation				
			see CAD 3.8.3				
	[8.7.3.31] *2	★ Door By-Pass Sw		Minor A	Minor A		
		8.7.2.27.1(b)	Alteration or Addition of Door By-Pass Switches				
	072242	Car-Leveling or Trucl	Zanina Davissa	Minor A	Minor A		
	8.7.3.31.2		<u> </u>	WIIIOI	IVIIIIVI A		
		3.26.3.2	and test requirements, see 8.10.3.3.2(hh)				
	8.7.3.31.3	Alter / Replace	Operation in Leveling or Truck Zone Anti-Creep Leveling Device	Minor B		Mino	or B
	0.7.3.31.3		and test requirements, see 8.10.3.3.2(ii)	IVIII IOI ID	-	IVIIII	0, 0
		3.26.3.1	Anti-Creep Operation			see 8.6	.3.10.5
		5.25.5.1	2.256 060.000			550 0.0	
	8.7.3.31.4	Change in Power Su	oply	Major	-		
			and test requirements, see 8.10.3.3.2(ii)	,			
		•	equency or # of phases or				
		(b) AC to DC,	DC to AC or				
			n 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				
	[8.7.3.31]★3	★ Addition of Soft St			Minor A		
		2.26.4.1 & 2	OESC, CSA C22.1 & B44.1 certified				
	[0.7.0.04]	3.26.5	Phase-Reversal and Failure Protection		Mar. D		
	[8.7.3.31]★4		Efficiency Increasing Device		Minor B		
		B44.1 certified					
		2.26.4.1 & 2	OESC, CSA C22.1 & B44.1 certified				

0	1	2a	2b	2c	3	4	5	6
4 .				Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	
o d X	B44:19			(see also Guideline 296 / 22)	Alte	ration	Replace	ment with
ms t wit	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
Conforms to B44 Mark with 'X'	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
Cor		Job	Reference:			Type of Submiss	sion Required	
	8.7.3.31.5	Contro	ollers					
	8.7.3.31.5(a)	Install	/ Replace	Motion Controller (no change in method of Motion Control)	Major	-	M	ajor
	, ,		For inspection	and test requirements, see 8.10.3.3.2(s)	,			•
			2.7.2	Maintenance Path and Clearance				
			<u>8.7.2.7.2</u>	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				
	0.7.2.24 E/b)	Inatall	/ Replace	Operation Controller (no change in method of Operation Controll	Major		N 4	oio#
	8.7.3.31.5(b)	IIIStali	/ Replace	Operation Controller (no change in method of Operation Control (auto to auto, non-auto to non-auto, CPPB to CPPB, etc)	Major	-	IVI	ajor
			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				
			<u>8.7.2.28</u>	if installation alters Emerg. Ops and Signalling Devices				
	8.7.3.31.5(c)	Install	/ Replace	Motion & Operation Controller (no change in method of either)	Major	-	M	ajor
			•	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				
		(0)	2.7.9	Lighting, Temperature and Humidity				
		(2)	8.7.2.8 2.26.4.2	Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R.				
			2.26.4.2	Listed/Certified and Labeled/Marked				
		(2)	2.05	Ascending Car Overspeed & Unintended Car Movement Protection				
		(3)	3.25.	Terminal Stopping Devices For Car-Switch Operation Elevators				
		(4) (5)	3.26.(*) 2.27.2*	Emergency or Standby Power System				
		(3)	2.21.2	as modified by <u>8.7.3.31.8(b)</u> and <u>8.7.3.31.8(f)</u>				
		(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				
<u> </u>			2.07.2	doors open and reclose in 15s				
<u> </u>			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				
			J.2111	as modified by 8.7.3.31.8(c) through 8.7.3.31.8(f)				
		(7)	If FEO previous	sly 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				
<u> </u>			2.27.5	FEO: Automatic Elevators w/Attendant				
			2.27.6	FEO: Inspection Operation				

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44 .				Alteration Checklist for Director's Order 296 / 22		Type of Altera		
ö r	B44:19			(see also Guideline 296 / 22)	Alte	ration	Replace	ment with
ms t wit	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
or. Mark	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'		Jol	b Reference:			Type of Submiss	sion Required	
			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 <u>8.7.2.28(c)</u> through <u>8.7.2.28(f)</u>				
			except,					
			If FEO NOT pr	eviously present or required by OBC; as a minimum				
				2.27.3.1 Provide Phase 1 Manual Recall Operation Only and	b			
				the level of activation shall not be diminished per 8.7.1.2.				
	[8.7.3.31]★5	Reloc		Elevator Controller (if control wiring disconnected - reconnected)	Major			
			2.8.2	Electrical Equipment and Wiring				
				Electrical testing as per the original design submission tests				
	0.7.0.04.5(-1)	lus e 1 = 11	l=4:=====f	Dean Cantrallar	N 41: A		3.6	D
	8.7.3.31.5(d)	install	lation of	Door Controller	Minor A	-	Mir	or B
$\vdash$				and test requirements, see 8.10.3.3.2(q)				
			8.7.3.12	Electrical Equipment and Wiring				
$\vdash$	8.7.3.31.5(e)	Inetall	lation of	Controller for Emergency or Standby Power	Minor A	Minor A	Min	or B
	0.7.3.31.3( <del>e</del> )	iiistali	8.7.2.28	Electrical Equipment and Wiring	IVIII IOI A	IVIII IOI A	IVIII	IOI D
			0.7.2.20	Liectrical Equipment and Willing				
	8.7.3.31.5(e)	Install	lation of	Controller for FEO Operation	Minor A	Minor A	Mir	or B
	0.7.0.07.0(0)	motan	8.7.2.28	Electrical Equipment and Wiring	Willion 71	William 7 C		101 5
			0.7.2.20	Liounda Equipmont and Trining				
	8.7.3.31.6	Chan	ge in Type of Mo	otion Control	Major	-		
				and test requirements, see 8.10.3.3.2(r)				
		(a)	2.7.2	Maintenance Path and Clearance				
			8.7.2.7.2	Means of Access				
			2.7.9	Lighting, Temperature and Humidity				
		(b)	<u>8.7.3.8</u>	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 2.11.8	Glass in Hoistway Doors 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 <u>8.7.2.14.5.2</u>				
		(i)	3.16.	Capacity & Loading				
		(h)	3.17.	Car & Cwt Safeties				
		(*)	2.18.(*)	Speed Governors				
		(j)	3.25.	Terminal Stopping Devices				
$\vdash$		(k)	3.26.(*)	Operating Devices and Control Equipment				
		(m)	2.29.	Identification of Equipment and Floors				

0	1	2a	2b	2c	3	4	5	6
4				Alteration Checklist for Director's Order 296 / 22		Type of Alter	ation Work	
Conforms to B44 Mark with 'X'	B44:19			(see also Guideline 296 / 22)	Alte	ration	Replace	ment with
ns to	Reference			Scope of Alteration - B44 - 2019	Modification		_	Different
ark a	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
No.	Hamber	Job	Reference:			Γype of Submiss	sion Required	
Ŭ		(I)				71		
		` '	2.27.1(*)	Car Emergency Signalling Devices				
		(1)	2.27.1( )	as modified by 8.7.2.28(a) and 8.7.2.28(f)				
		(2)	If EEO provious	sly present or required by OBC; or provided by an alteration				
			3.27.	Emergency Operation and Signaling Devices				
			3.21.					
				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				
$\vdash$				3.27.4 Device Actuation w/ Phase 2 In-Car Operation in Effect				
$\vdash$				2.27.1(*) Car Emergency Signalling 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 & 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,	2.27.3 Elevator Comider Call Ctation Flotograph in requiry CDC				
			• •	eviously present or required by OBC; as a minimum				
			ii i LO NO i pic	2.27.3.1 Provide Phase 1 Manual Recall Operation Only and	1			
				the level of activation shall not be diminished per 8.7.1.2.	ĺ			
				the level of activation shall not be diffilliastica per 6.7.1.2.				
	8.7.3.31.7	Change	e in Type of Op	eration Control - CPPB, Automatic	Major	-		
		Ŭ		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				
			<u>8.7.3.8</u>	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				
				· · · · · · · · · · · · · · · · · · ·				

0	1	2a 2b	2c	3	4	5	6
4		,	Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	
9 ×	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replace	ement with
s to vith	Reference		Scope of Alteration - B44 - 2019	Modification			Different
r k	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	Nullibei	lah Dafaranaa	,		Гуре of Submiss	ion Domilion	
ပ		Job Reference:			Type of Submiss	sion Required	
		3.14.(*)	Car: Enclosure, Doors, Gates, Illumination				
			2.14.1.7 car top railing or stowable type <u>8.7.2.14.5.2</u>				
		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				
$\vdash$			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 Wande	r 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(I)	- shall not prevent PHI				
	[8.7.3.31]★7	★ Addition of Restrict	ted Access - Security / Floor Lock Out	Minor B	Minor B		
		OBC-3.2.6.5(4)	- shall not prevent floor access When on FEO				
			in Operative Under non FEO Conditions, Door Closed When not in Use				
		2.27.3.1.6(I)	- 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 2 311±0	★ Addition of Destina			Minor B		
	[0.7.2.31] * 0	8.7.2.8	Electrical Equipment, Wiring, Pipes, and Ducts in H/W's &M/C Rooms		WILLION D		
$\vdash$		0.7.2.0					
			FEO operation to 8.7.2.28 or code at time of installation or alteration				
	8.7.3.31.8		and Signaling Devices				
	8.7.3.31.8(a)	Car Emergency Signa	ling Devices	Minor B	Minor B	n	nrr
		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				
		<u>8.7.2.8</u>	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)				
			, , , , , , , , , , , , , , , , , , , ,				
	8.7.3.31.8(b)	Emergency or Standb	v Power	Minor B	Minor A		
			and test requirements, see 8.10.3.3.2(I)				
		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)				
$\vdash$		۷.۷۶.	identification (for elevators in the same group)				

0	1	2a	2b	2c	3	4	5	6
4				Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	
Ж.	B44:19			(see also Guideline 296 / 22)	Alte	ration	Replace	ement with
s to with	Reference			Scope of Alteration - B44 - 2019	Modification			Different
rk y	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	Nullibei	lok	Reference:			Type of Submiss	ion Boquiros	
						**	ion Required	
	8.7.3.31.8(c)	Firefig	hter's Emergen		Minor B	Minor A		
			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 <u>8.7.3.31.8(a)</u> thru <u>8.7.3.31.8(f)</u>				
				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				
1								
				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 8] <del>*</del> 9	★ Fm	erg Recall Upo	rade - from Manual to Automatic & matching code at time of instal	Min	nor B		
	[0.7.0.01.0] ^ 0	^	iorg. recoan opg	conformance to auto recall based on F.S. at time of install	TVIII	ЮВ		
				comormance to auto recail based on r.o. at time of install				
	[0 7 2 21 01 <b>→</b> 10	+ Em	ora Pocali Una	urada ta camply with a Fira Cada Patrofit Order	Minor B	Minor A		
	[0.7.3.31.0] * 10	× [1]	ierg. Recail Opg	grade to comply with a Fire Code Retrofit Order	IVIIIIIII D	WIIIOI A		
				2.27.3 FEO: Automatic Elevators				
	0.7.0.4.0	•			1.0° D			
	8.7.3.31.9	Auxilia	ary Power Lower		Minor B	Minor B		
				and test requirements, see 8.10.3.3.2(oo)				
			3.26.10	Auxiliary Power Lowering Operation				
				include testing procedure				
	8.7.3.31.10	Remo		y stop switch on passenger elevators	Minor B	Minor B		
				and test requirements, see 8.10.3.3.2(kk)				
			remove all rela	ted 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				
	8.7.3.31.11	Electri	ical Protective D	Pevices	See F	Below ↓		
				and test requirements, see 8.10.3.3.2(II)				
		Altera		of an Electrical Protective Device	Major	Major	mrr	Major
			3.26.4	Electrical Protective Devices - for specified device		Major		
			J.20.7	Lissanda i Totobaro Dorioto Toi spooliida aerioe				
	8.7.3.31.12	Chana	ne of Hydraulia F	Pump Motor Starter - (no control valve )	ЛСОСБ	Below ↓		
	0.7.3.31.12	Onani			√ 3ee E	OCIOVV 💠		
		Λ I+		and test requirements, see 8.10.3.3.2(pp)	Meiss	Meiss	mc	Meiss
		Aitera		of an Electrical Protective Device	Major	Major	mrr	Major
			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				

0	1	2a 2b	2c	3	4	5	6
			Alteration Checklist for Director's Order 296 / 22		Type of Alter	ation Work	
×	B44:19		(see also Guideline 296 / 22)	Alte	eration	Replac	ement with
v it	Reference		Scope of Alteration - B44 - 2019	Modification	T		Different
ar X	Number		Part, Section or Requirement	Change	Addition	Same	Make/Mod
Mark with 'X'	Number	Job Reference:	·		Type of Submiss	sion Require	1
	0 7 0 04 40					I Required	4
	8.7.3.31.13	Door Monitoring Sy			Below ↓		
	0.7.0.7.0		on and test requirements, see 8.10.3.3.2(mm)	Minor	Minor A		
	8.7.2.27.9		on of a System to Monitor faulty door contract circuits	Minor A	MINOL A		
		2.26.5	System to Monitor & Prevent Automatic Operation w/ Faulty I	Door Contacts			
	0.7.4	Alterations to Ele	vistors whether Types of Driving Machines				
	8.7.4	Rack and Pinion E	vators w/other Types of Driving Machines	N4-1			
	8.7.4.1			Major	-		
	0 = 4 0	4.1.	Rack and Pinion Elevators	24			
	8.7.4.2	Screw-Column Ele		Major	-		
	0 = 4 0	4.2.	Screw-Column Elevators	Maia			
	8.7.4.3	Hand Elevators	an and Machinery Chana	Major	-		
	8.7.4.3.1		es and Machinery Space	Major	-		
		4.3.1	Hoistways, H/W Enclosures, and Related Construction				
	07400	4.3.4	Enclosures for Machines and Control Equipment				
	8.7.4.3.2	•	terweight Clearances	Major	-		
		4.3.3	Top Clearances				
	8.7.4.3.3	Hoistway Entrance		Major	-		
		4.3.6	Hoistway Entrances				
		4.3.7	Hoistway Gates for Landing Openings				
		4.3.8	Hoistway-Door & Hoistway Gate Locking Devices				
	8.7.4.3.4	Car Enclosures		Major	-		
		4.3.9	Car Enclosures				
		4.3.11	Car Frames and Platforms				
	8.7.4.3.5	Car Frame and Pla	atform	Major	-		
		4.3.11	Car Frames and Platforms				
		4.3.12	Car Compartments				
		4.3.13	Cars Counterbalancing One Another				
		4.3.16	Suspension Means				
	8.7.4.3.6	Capacity & Loading	g	Major	-		
		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				
	8.7.4.3.7	Increase in Rise		Major	-		
		4.3.3.1	Top Car Clearances				
		4.3.3.2	Top Counterweight Clearance				
		4.3.15	Car Safeties				
		4.3.16	Suspension Means				
	8.7.4.3.8	Guide Rails and Fa		Major	-		
		4.3.18.1	Guide Rails - Material and Finish				
		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 a	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	S	Major	-		
				,			

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			Alteration Checklist for Director's Order 296 / 22		Type of Alter	ation Work	
Ÿ.	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replac	ement with
×	Reference		Scope of Alteration - B44 - 2019	Modification			Different
ar X	Number		Part, Section or Requirement	Change	Addition	Same	Make/Mod
Mark with 'X'	Number	Job Reference:		-	Гуре of Submiss	sion Require	d
	8.7.5		ecial Application Elevators		7,		_
	8.7.5.1	Inclined Elevators	eciai Application Elevators	Major			
	0.7.3.1	5.1.	Inclined Elevators	Major	-		
		5.1.	compliance to specific 5.1 sections based on alteration scope	vori	ance		
	8.7.5.2	Limited Llco/Limited	d Application Elevators		lectric or Hy	(draulic E	lovator
	[8.7.5.2] <b>*</b> 1		Alterations to Electric Elevator & as modified in Section 5.2	See E	lectric or my	draulic E	ievalor
	[8.7.5.2]★2		Alterations to Hydraulic Elevator & as modified in Section 5.2	Maian			
	8.7.5.5 8.7.5.5.1	Power Sidewalk Ele		Major	-		
	8.7.5.5.1		cal Wiring or Electrical Equipment	Major	-		
	0.7.5.0	5.5.1.8	Equipment in Hoistways & Machine Rooms	N.4 - 1			
	8.7.5.5.2	Sidewalk Door	Harianatal Operators in Oldersoller and Estados A	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		losure, Car Doors, and Gates	Major	-		
		5.5.1.14	Car Enclosure, Car Doors and Gates, Illumination				
	8.7.5.5.4	Bow-Irons and Star		Major	-		
		5.5.1.15.2	Bow-Irons and Stanchions				
	8.7.5.5.5	Increase in Rated L	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 S	•	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 Ma		Major	_		
	0.7.0.0.7	5.5.1.8	Equipment in Hoistways & Machine Rooms	Major			
		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		Operating Devices and Control Equipment	Major			
	0.7.3.3.0	5.5.1.8	Equipment in Hoistways & Machine Rooms	Major	-		
			' '				
		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 Pe	·		see CAN/C	SA B311	

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4 -			-	Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	
о́г У	B44:19			(see also Guideline 296 / 22)	Alte	ration	Replace	ment with
ns t	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
Conforms to B44 Mark with 'X'	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
S Z		Job	Reference:		7	ype of Submiss	sion Required	
	8.7.6.1	Altera	tions to Escala	ators				
	8.7.6.1.1		ge to component		mrr	-	n	nrr
			,	8.6.12.4.1.1 Replacement parts or components				
				8.6.12.4.1.2 Quality of Work				
	8.7.6.1.1	Additio	on of Componer	nts or Devices	see 8	3.7.6.1		-
				see applicable 8.7.6.1 requirements for that device				
	8.7.6.1.2 (a)	Reloca	ation of Escalato		New	-		
			6.1.	Escalators				
	8.7.6.1.2 (b)		sitioning of Esca		Major			
	CAD 3.18	* Re	-	scalator (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 6.1.3.12	Safety Zone Headroom				
			6.1.3.12	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	Protec	ction of Floor Op	, ,	Minor A	-		
	011101110		6.1.1.	Protection Required				
	8.7.6.1.4	Protec		and Machinery Spaces Against Fire	Minor A	-		
			6.1.2.1	Protection Required				
	8.7.6.1.5	Const	ruction Requirer	nents				
			For inspection	and test requirements, see 8.10.4.2.2(b)				
	8.7.6.1.5(a)	Angle	of Inclination		Major	-		
	8.7.6.1.5(b)	Geom	etry		Major	-		
			6.1.3.2	Geometry				
	8.7.6.1.5(c)	Balus	trades		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 6.1.3.3.5	Interior Low Deck				
			6.1.3.3.6	Loaded Gap between Skirt & Step Skirt Panels				
			6.1.3.3.7	Dynamic Skirt Panels				
$\vdash$			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)	Deflec	ctor Devices		Min	or B	n	nrr
			6.1.3.3.10	Skirt Deflector Devices				
	8.7.6.1.6	Handr	ails or Handrail		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				
	[0.7.0.4] + 4	A A -	6.1.6.4	Handrail Speed Monitoring Device		0000		
	[8.7.6.1]★1	× Ad	dition of Handra		vari	ance	varı	ance
	[0.7.6.4] + 0	<b>→</b> ∧ →	dition of Hand	Variance to 6.1.6.9.2	Minor D	Minor	mre	Minor A
	[8.7.6.1]★2	* Ad	dition of Handra 2.26.4.2	il sanitation devices Electrical equipment shall be listed/certified; labeled/marked	Minor B	Minor A	mrr	Minor A
			8.7.6.1	General requirements or 8.7.6.2 for moving walks				
			8.7.6.1.14	Lighting, Access, and Electrical Work				
Щ			0.7.0.1.14	Lighting, Access, and Liecthical WOIK				

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	'	Za Zb			Type of Alter		Ů
₩.×			Alteration Checklist for Director's Order 296 / 22	Alte	ration		ment with
요 들	B44:19		(see also Guideline 296 / 22)	7110			1
ms K w	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
Conforms to B44 Mark with 'X'	Number		Part, Section or Requirement	Change			Make/Model
ō =		Job Reference:		7	ype of Submiss	sion Required	
	8.7.6.1.7	Ston System any alt	eration to the step system	Major		mrr	Minor B
	0.7.0.1.7			iviajui	-	11111	IVIIIIVI D
			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				
			Missing Step Device				
		6.1.6.5	iviissing step bevice				
	0.7.0.4.0	Cambalataa		N 40			
	8.7.6.1.8	Combplates		Minor A	-		
			and test requirements, see 8.10.4.2.2(k)				
		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					
		0.1.3.10.1	Factor of Safety - Trusses and Supporting Structures				
	8.7.6.1.9	New Escalator into Ex		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				
		0.7.1.4	Welding				
	070444	Data d Land and Cons	- 4	Maian			
	8.7.6.1.11	Rated Load and Spec		Major	-		
		· · · · · · · · · · · · · · · · · · ·	and test requirements, see 8.10.4.2.2(f)				
		6.1.	Escalators				
	8.7.6.1.12	Driving Machine, Mot	or, 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				

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44 .				Alteration Checklist for Director's Order 296 / 22		Type of Altera		
원 도 'X B	B44:19			(see also Guideline 296 / 22)	Alte	ration	Replace	ement with
ms t	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
Conforms to B44 Mark with 'X'	Number			Part, Section or Requirement	Change	Addition	Oame	Make/Model
8 -		Jok	Reference:		-	Type of Submiss	sion Required	
			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)	Machi	ne Brake		Major	-		
				and test requirements, see 8.10.4.2.2(g)				
			6.1.3.9.3 6.1.3.10.2	Brake Factor of Safety - Driving Machine Parts				
			6.1.5.3.1	Escalator Driving-Machine Brake				
			0.1.0.0.1	Escalator Briving Machine Brake				
	8.7.6.1.13	Opera	ating and Safety	Devices	Minor A	Minor A		
				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	*		p demarcation lights	Minor A	-		-
$\square$			6.1.3.3.5	Loaded Gap Between Skirt & Step				
$\vdash$			6.1.3.5.4	Clearance between Steps				
$\vdash$			6.1.3.5.5 6.1.3.5.6	Slotting of Steps and Treads Step Demarcation				
			6.1.3.6.2	Distinction Between Comb and Step				
			0.1.3.0.2	Distinction between Comb and Step				
	8.7.6.1.14	Liahtir	ng, Access, and	Electrical Work	Minor B	Minor B		
		3		and test requirements, see 8.10.4.2.2(I)				
			6.1.7	Lighting, Access, and Electrical Work				
	8.7.6.1.15	Entrar	nce and Egress		Major	-		
				and test requirements, see 8.10.4.2.2(m)				
			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	Contro	oller		Major	_		_
	0.11011110	00		and test requirements, see 8.10.4.2.2(i)	ajo:			
			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 - Rep	placement of	_	-	M	ajor
	[5.7.5.1] ~ 0	.,	8.7.6.1.16	Controller			101	,
	[8.7.6.1]★4	Reloca	ation of	Controller (if control wiring disconnected - reconnected)	Major			
			2.8.2	Electrical Equipment and Wiring				
				Electrical testing as per the original design submission tests				
	10 = 0		A 1 11/2					
	[8.7.6.1]★5		Addition of Sof		-	Minor A		
		ior coi	-	lilt to B44-00 and later				
			6.1.7.4 6.1.6.10.1	Electrical Equipment and Wiring Occurrence of a single ground				
			6.1.6.10.1	Redundancy to be checked				
			6.1.6.10.3	Methods used to check single failure				
		for co		illt prior to B44-00				
			6.1.7.4	Electrical Equipment and Wiring				
	[8.7.6.1]★6	<b>★</b> Ad	dition of Power I	Efficiency Increasing Device	-	Minor B		
			B44.1 certified					
			2.26.4.1 & 2	OESC, CSA C22.1 & B44.1 certified				

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s to B44 ith 'X'	B44:19			Alteration Checklist for Director's Order 296 / 22  (see also Guideline 296 / 22)		Type of Altera		ement with
onforms to Mark with	Reference Number			Scope of Alteration - B44 - 2019 Part, Section or Requirement	Modification Change	Addition	Same	Different Make/Model
Co		Job	Reference:		•	Type of Submissi		
	8.7.6.1.17	Variab	le-Frequency D	Prive Motor	-	Minor A		-
			For inspection	and test requirements, see 8.10.4.2.2(n)				
			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	Additio	on of Speed Val	riance	-	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 F	Panels		Mir	or A	Mir	nor A
			For inspection	and test requirements, see 8.10.4.2.2(j)				
			6.1.3.3.6(d) 8.3.15	Skirt Deflection Test and Marking/Labeling. Skirt Deflection Test				

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4 .				Alteration Checklist for Director's Order 296 / 22		Type of Altera		
Conforms to B44 Mark with 'X'	B44:19			(see also Guideline 296 / 22)	Alte	ration	Replace	ment with
ms k wit	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
nfor Mari	Number			Part, Section or Requirement	Change			Make/Model
ပိ		Job	Reference:			Type of Submiss	sion Required	
	8.7.6.2	Altera	tions to Movin	g Walks				
	8.7.6.2.1		ge to component		mrr	-	n	nrr
				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	on of Componer		see 8	3.7.6.2		-
	0.7.0.0	Dalass	ation of Moving	see applicable 8.7.6.2 requirements for that device	Mann			
	8.7.6.2.2	Reloca	6.2.	Moving Walks	New	-		
	8.7.6.2.3	Protec	ction of Floor Op	<u>-</u>	Minor A	-		
	0.7.0.2.5	1 10100	6.2.1.	Protection Required	WIII IOI 7			
	8.7.6.2.4	Protec	-	and Machinery Spaces Against Fire	Minor A	-		
			6.2.2.1	Protection of Supports - Protection Required				
	8.7.6.2.5	Const	ruction Requirer	ments				
				and test requirements, see 8.10.4.2.2(b)				
	8.7.6.2.5(a)	Angle	of Inclination		Major	-		
	0.7.0.0.5(1.)	0 - 1	6.2.	Moving Walks	N 4 = 1			
	8.7.6.2.5(b)	Geom	•	Coometry	Major	-		
	8.7.6.2.5(c)	Balust	6.2.3.2	Geometry	Minor A	Minor A		
	0.7.0.2.3(0)	Daiust	6.2.3.3	Balustrades	WITTOT A	WITTO! A		
	8.7.6.2.6	Handr		Dalastrades	Minor A	-		
		1 101101		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	★ Ad	dition of Handra	•	variance		variance	
	[8.7.6.2] *2	<b>+</b> Δd	dition of Handra	Variance to 6.1.6.9.2 il sanitation devices	Minor B	Minor A	mrr	Minor A
	[0.7.0.2] * 2	* Au	2.26.4.2	Electrical equipment shall be listed/certified; labeled/marked	IVIIIIVI D	WIII IOI A	11111	IVIIIIOI A
			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	Tread	way System		Major	-		
				and test requirements, see 8.10.4.2.2(c)				
			6.2.3.2.3	Geometry - Handrail				
			6.2.3.3.5 6.2.3.3.6	Skirtless Balustrade 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 Proken Treadway Povice				
			6.2.6.3.3	Broken Treadway Device				
	8.7.6.2.8	Comb	plates		Minor A	-		
		2 31113		and test requirements, see 8.10.4.2.2(k)				
			6.2.3.8	Entrance and Egress Ends				
			6.2.6.3.11	Comb-Pallet Impact Devices				
	8.7.6.2.9	Trusse	es and Girders		Major	-		
				and test requirements, see 8.10.4.2.2(d)				
			8.7.1.4 9.7.1.5	Welding				
			8.7.1.5 6.2.3.9	Design 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 N	Moving Walk into		New	-		
			For inspection	and test requirements, see 8.10.4.2.2(d)				

0	1	2a	2b	2c	3	4	5	6
744 C				Alteration Checklist for Director's Order 296 / 22		Type of Alter		
Conforms to B44 Mark with 'X'	B44:19			(see also Guideline 296 / 22)	Alte	ration	Replace	ement with
ms k wit	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
nfoi Mari	Number			Part, Section or Requirement	Change			Make/Model
ပိ		Job	Reference:		٦	Type of Submiss	sion Required	
			6.2.	Moving Walks				
	8.7.6.2.10	Track	System		Major	-		
			•	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 <u>8.7.1.4</u>	Trusses & Supports based on max static load Welding				
			0.7.1.4	vveiding				
	8.7.6.2.11	Rated	Load and Spee	d	Major	_		
	0.7.0.2.11	raioa		and test requirements, see 8.10.4.2.2(f)	Major			
			6.2.	Moving Walks				
	8.7.6.2.12	Driving	g Machine, Moto	or, and Brake	Major	-		
	8.7.6.2.12(a)	Driving	g Machine		Major	-		
				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 6.2.4	Headroom 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 I	Motor		Major	-		
			For inspection a	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 6.2.5.3.1	Driving Motor 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)	Machi	ne Brake		Major	-		
				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	Onera	ting and Safety	Devices	Minor A	Minor A		
	0.7.0.2.13	Opera		and test requirements, see 8.10.4.2.2(h)	MITOL A	WILLION A		
			6.2.6	Operating and Safety Devices (for that device)				
				, , , , , , , , , , , , , , , , , , , ,				
	8.7.6.2.14	Lightin	ng, Access, and	Electrical Work	Minor B	Minor B		
				and test requirements, see 8.10.4.2.2(I)				
			6.2.7	Lighting, Access, and Electrical Work				
	8.7.6.2.15	Contro		s part of an alteration	Major	-		-
			•	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 6.2.6.14	Completion of Maintenance Circuits Moving Walk Manual Reset				
			0.2.0.14	INIOVING VVAIN IVIANUAL INESEL				

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				Alteration Checklist for Director's Order 296 / 22	Type of Altera			
9 ×	B44:19			(see also Guideline 296 / 22)			ement with	
s to with	Reference			Scope of Alteration - B44 - 2019	Modification			Different
ar k	Number			Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	Number	Job	Reference:			Type of Submiss	sion Required	
Ĭ			6.2.6.15	Contractors and Relays for Use in Critical Operating Circuits		71		
			6.2.7.4	Electrical equipment and wiring				
			0.2.7.4	Electrical equipment and willing				
	[8.7.6.2] <b>★3</b>	*	Controller - Re	placement of	_	_	M	ajor
	[0.7.0.2] ^ 0		8.7.6.1.16	Controller			101	ajoi
			0.7.0.1.10	Controller				
	[8.7.6.2] <b>★4</b>	Reloca	ation of	Controller (if control wiring disconnected - reconnected)	Major			
	[00.2]		2.8.2	Electrical Equipment and Wiring	ajo:			
				Electrical testing as per the original design submission tests				
	[8.7.6.2] <b>★5</b>	*	Addition of Sof	t start	-	Minor A		
	[ ]			uilt 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 con	itrol systems bu	uilt prior to B44-00				
			6.1.7.4	Electrical Equipment and Wiring				
	[8.7.6.2] <b>★6</b>	★ Add	dition of Power	Efficiency Increasing Device	-	Minor B		
			B44.1 certified					
			2.26.4.1 & 2	OESC, CSA C22.1 & B44.1 certified				
	8.7.6.2.16		le-Frequency D		-	Minor A		-
				and test requirements, see 8.10.4.2.2(n)				
			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				
	076047	۸ طط:۱: -	on of Coood \/=	ionee		Minor		
	8.7.6.2.17		on of Speed Val	and test requirements, see 8.10.4.2.2(j)	-	Minor A		-
			6.2.4.1.2	Variation of the escalator speed after startup				
			0.2.4.1.2	variation of the escalator speed after startup				
	8.7.6.2.18	Entran	ce and Egress		_	Minor A		_
	0.7.0.2.10		6.2.3.8.1	Combplates		WIII IOI A		
$\vdash$			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				
			5.2.0.0. 1	Jane 1, 2011				
	8.7.6.1.19	Skirt P	anels		Min	or A	Mir	nor A
				and test requirements, see 8.10.4.2.2(j)				
			6.1.3.3.6(d)	Skirt Deflection Test and Marking/Labeling.				
			8.3.15	Skirt Deflection Test				
					_			

0	1	2a 2b	2c	3	4	5	6
	·	20 20	Alteration Checklist for Director's Order 296 / 22		Type of Altera		
8 ×	B44:19		(see also Guideline 296 / 22)	Alte	eration	Replace	ment with
s to with	Reference		Scope of Alteration - B44 - 2019	Modification	T		Different
nforms to Mark with '	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
Conforms to B44 Mark with 'X'	Number	Job Reference:	·		Type of Submiss	sion Required	
					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	non reoquirou	
			owaiters and Material Lifts				
	8.7.7.1		terial Lifts Without Automatic Transfer Devices	Major	-		
			and Hand Dumbwaiters	Major	-		
		7.1.	Power and Hand Dumbwaiters				
		7.2.	Electric and Hand Dumbwaiters				
		7.3.	Hydraulic Dumbwaiters				
		Alteration to a Materi		Major	-		
		7.4.	Material Lifts				
	CAD 3.9.2	Lock and Contact up	grade to Interlock	Minor A	Minor A		
		CAD 3.9.2					
		7.4.14*	Hoistway Door Locking Devices				
		_					
	8.7.7.1.1	General Alterations of		Major	-		
		Part 7	Dumbwaiters and Material Lifts				
	8.7.7.1.2	Increase in Rated Lo		Major	-		
		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				
	8.7.7.2	Addition of Automatic	Transfer Device	Major	-		
		Part 2	Electric Elevators				
		Part 3	Hydraulic Elevators				
	8.7.7.3.1	Material Lifts and Dur	mbwaiters With Automatic Transfer Devices	N/A	N/A		
			exempt if requirements of CAD 2.3(j) are met				
	8.7.7.3.2		mbwaiters - remove Transfer Device	New	-		
		7.1. to 7.3.	for Dumbwaiters				
		7.4. to 7.6	Material Lifts w/o Transfer Devices				
	8.7.7.3.3	Material Lifts altered		New	-		
		Part 2	Electric Elevators				
		Part 3	Hydraulic Elevators				
	8.7.7.3.4		waiter 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 Freig			-		
	[8.7.7]★1		/pe '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' +	ļ			
			+ excluding requirements related to in-car operating devices & Richard Control of the control of	-			
	CAD 3.9.2	Lock and Contact up	grade to Interlock	Minor A	Minor A		
		CAD 3.9.2					
		7.4.14*	Hoistway Door Locking Devices				
	[8.7.7]★2	★ Alteration to a Ty	/pe '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 up	grade to Interlock	Minor A	Minor A		
		CAD 3.9.2					
		7.4.14*	Hoistway Door Locking Devices				